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VOLUME 291

OCTOBER

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1921

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[Decisions of the United States Circuit Court of Appeals are indicated by the letter (d).]

ERRATA.

1,392,335, page 10, in the heading, title of invention, for "Vertical-Surface-Grinding Machine" read *Surface-Grinding Machine.*

1,392,405, page 28, in heading, residence of patentee, for "Toronto, Ontario, Canada" read *Toronto, Ohio.*

1,394,682, page 509, first claim, line 6, strike out the word "and."

15,205, (Reissue,) page 387, in heading, after residence of patentee, insert the words *assignor to Morgan Construction Company, Worcester, Massachusetts, a Corporation of Massachusetts.*

147,703, (Registered Trade-Marks,) page 880, particular description of goods, before the compound word "Tie-clasps" insert the compound word and comma *Cuff-buttons,.*

Alphabetical List of Inventions, October 4, 1921, page xix, second column, line 66, title, for "Car ends, Machine for and method of lining," read *Can ends, Machine for and method of lining.*

Alphabetical List of Patentees, October 11, 1921, page ii, first column, line 75, for Patent No. "1,393,401" read *1,393,491.*

Vol. 291.

Patents Nos. 1,302,288 to 1,302,897.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

Vol. 291—No. 1. TUESDAY, OCTOBER 4, 1921. Price—$5 per year.
[PUBLISHED OCTOBER 11, 1921.]

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $5.00 per annum; single numbers, 10 cents each.

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Issue of October 4, 1921.

Patents	610—No.	1,302,288 to No.	1,302,897, inclusive.
Designs	146—No.	59,171 to No.	59,316, inclusive.
Trade-Marks	187—No.	147,068 to No.	147,254, inclusive.
Reissues	1—No.	15,208.	
T.-M. Renewals	5		
Total	949		

New Examining Division.

(ORDER No. 2,697.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 26, 1921.

A new examining division, No. XLVIII, is hereby established, with Examiner O. B. Roepke in charge, and it is directed that the following classes be transferred thereto, this order to take effect October 1, 1921: class 173, Electricity, Conductors, from Division XLII; class 175, Electricity, General Applications, from Division XXXVII.

THOMAS E. ROBERTSON,
Commissioner.

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 20, 1921.

The American Perfumer Company, their assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of Hersey P. Barnes, of 156 Jamestown street, Manayunk, Philadelphia, Pa., for registration of a trade-mark and trade-mark registered May 1, 1906, No. 51,958, to The American Perfumer Company, of 15 Taylor street, Springfield, Mass., and a notice of such declaration sent by registered mail to The American Perfumer Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless The American Perfumer Company, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 27, 1921.

The All in One Tractor Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Stroud Motor Manufacturing Ass'n., Ltd., of 117 East Houston street, San Antonio, Tex., for registration of a trade-mark and trade-mark registered April 22, 1913, No. 91,271, to The All in One Tractor Company, Waterloo, Iowa, and a notice of such interference sent by registered mail to The All in One Tractor Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless The All in One Tractor Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 27, 1921.

H. J. Nice Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Percy Pierce, 445 North Fifth street, Philadelphia, Pa., for registration of a trade-mark and trade-mark registered December 23, 1919, No. 70,281, to H. J. Nice Company, 15 Northeast Fifth street, Minneapolis, Minn., and a notice of such interference sent by registered mail to said H. J. Nice Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said H. J. Nice Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

Adverse Decisions in Interference.

PATENT No. 1,310,841.

On September 8, 1921, a decision was rendered that Edmund G. Robinson was not the first inventor of the subject-matter covered by claims 1, 2, 3, 4, 5, 6, 7, and 8 of his Patent No. 1,310,841, subject, "Fireproof composition," and no appeal having been taken within the time allowed such decision has become final.

Amendments to Amendments.

RULE 74. When an amendatory clause is amended, it must be wholly rewritten, so that no interlineation or erasure shall appear in the clause, as finally amended, when the application is passed to issue. If the number or nature of the amendment shall render it otherwise difficult to consider the case or to arrange the papers for printing or copying, the Examiner or Commissioner may require the entire specification to be rewritten.

4704

Condition of Applications Under Examination at Close of Business September 24, 1921.

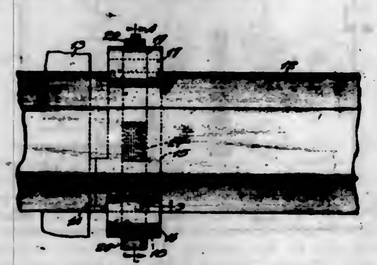
Room No.	Divisions, Examiners, and subjects of inventions. (Oldest new case, Oct. 5; oldest amended, Dec. 4.)	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. S., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	Apr. 21	Apr. 20	748
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Dec. 21	Feb. 18	1,666
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Dec. 18	Dec. 24	832
234	4. MERRITT, A. D., Conveyers; Conveyers, Fluid-Current; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Oct. 5	Mar. 16	1,701
167	5. MACNAB, J. F., Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Nov. 24	Jan. 12	912
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Mar. 2	June 15	944
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes.	Mar. 15	May 18	1,796
131	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	June 21	Aug 13	667
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Nov. 3	July 2	1,007
235	10. MITCHELL, T. H., Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Mar. 1	June 27	1,220
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	June 11	July 14	429
222	12. PIERCE, P. F., Machine Elements.	Feb. 11	May 26	1,156
320	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Nov. 16	July 1	1,645
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structures; Wire-Working.	Dec. 2	July 5	842
306	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Oct. 7	Feb. 12	1,682
111	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony.	Oct. 8	Feb. 7	1,786
307	17. RAFTER, G. S., Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Jan. 31	May 3	967
220	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Nov. 26	Feb. 15	1,722
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Nov. 27	Mar. 19	972
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Sales; Undertaking.	Apr. 6	May 17	1,413
212	21. THURBER, W. L., Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Mar. 1	June 6	653
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making.	May 16	July 2	541
217	23. GROESBECK, W. D., Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Dec. 8	June 8	830
144	24. DARBY, J. J., Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines.	Jan. 10	May 5	1,020
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	July 9	July 16	313
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime Mover Dynamo Plants.	Feb. 5	Apr. 20	801
214	27. ANDERSON, L. S., Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus.	Mar. 28	June 2	1,423
225	28. BENSON, A. R., Internal-Combustion Engines.	Jan. 17	Apr. 25	1,462
147	29. MORRIS, B., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright Machines; Wood-Sawing; Wood-Turning, Woodworking; Woodworking-Tools.	Feb. 2	July 12	731
152	30. SULLIVAN, M. E., Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines.	Feb. 7	July 12	1,304
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Oct. 27	Dec. 7	2,049
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange.	Dec. 4	June 7	1,030
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Mar. 21	Apr. 30	726
304	34. SIMPSON, G. E., Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	July 9	July 21	306
57	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	June 20	July 2	716
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Apr. 18	Apr. 12	1,585
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers; Electricity, General Applications.	Jan. 26	Feb. 2	2,330
378	38. IDE, G. B., Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Walls.	Apr. 30	Apr. 30	1,166
220	39. COWLES, A. W., Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Oct. 27	Jan. 10	1,956
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Jan. 10	Mar. 10	2,187
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels.	Mar. 12	Apr. 7	861
114	42. CUTTING, H. G., Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling; Electric Lamps.	Dec. 7	Dec. 4	2,305
382	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Dec. 20	Jan. 11	1,583
253	44. SHAFFER, C. H., Air-Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration Ships.	Jan. 3	June 22	484
379	45. GILES, A. H., Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices.	Feb. 17	Apr. 14	1,165
332	46. WOLCOTT, C. L., Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Mar. 1	Mar. 9	1,112
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid Pressure Brake and Analogous Systems.	Dec. 22	Apr. 12	1,133
168	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, JR.			
	Trade-Marks	Nov. 9	June 14	4,331
	Designs	Mar. 21	Apr. 18	2,122
	Labels and Prints	July 11	Sept. 1	376

Total number of applications awaiting action, excluding Trade-Mark division, 55,909; Trade-Mark division, 6,829.

PATENTS

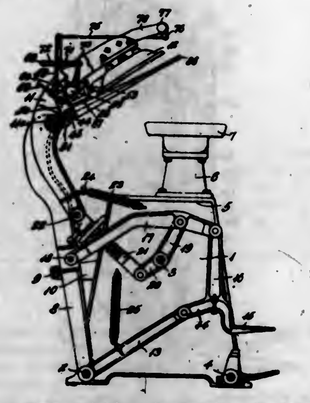
GRANTED OCTOBER 4, 1921.

1,392,288. RAIL-ANCHOR. OTTO R. BARNETT, Glencoe, Ill., assignor to P & M Company, Chicago, Ill., a Corporation of Illinois. Filed June 3, 1919. Serial No. 301,428. 12 Claims. (Cl. 238—324.)



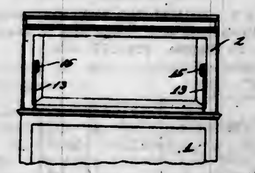
1. An anti-creeper comprising a yoke adapted to extend transversely under a rail base, jaws at opposite ends of the yoke and in operative relation thereto, provided with means for biting transversely of the rail into the upper surface of the base flange of said rail, a wedge adapted to be driven between the yoke and the rail base to cause said jaws to tightly grip the rail base, means on said wedge for biting transversely of the rail into the bottom of the rail base when the wedge is driven to gripping position, and means on the structure to engage a stationary part of the road bed.

1,392,289. GARMENT-PRESS AND STEAMING MECHANISM. DANA H. BENJAMIN, Cleveland Heights, and GEORGE N. LINK, Cincinnati, Ohio, assignors to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Filed July 5, 1918, Serial No. 243,893. Renewed Mar. 19, 1921. Serial No. 453,705. 10 Claims. (Cl. 68—9.)



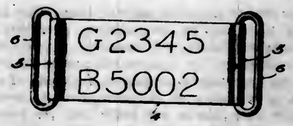
1. In a press, a buck, a head, means for bringing the same into pressing position, and steaming mechanism comprising an envelop lying beneath the head and movable bodily with respect thereto, means for projecting steam into said envelop, and controlling means therefor movable with said head.

1,392,290. BALANCE-WEIGHT COVER-SUPPORT FOR PHONOGRAPHS. ALFRED BERSTED and MARTIN BERSTED, Chicago, Ill. Filed Feb. 5, 1921. Serial No. 442,693. 6 Claims. (Cl. 217—60.)



1. The combination with a phonograph cabinet motor board and a phonograph cover, of balance cover supports projecting through the motor board and connected with the cover, and adjusting means forming a part of said cover supports adapted to be adjusted by withdrawing the supports through the motor board.

1,392,291. IDENTIFYING-TAG. EDWARD STUART BLACKBURN, Austin, Tex. Filed Feb. 28, 1920. Serial No. 361,998. 1 Claim. (Cl. 40—20.)

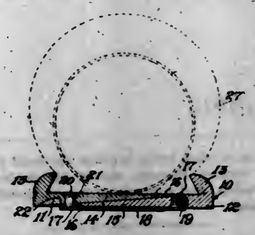


A tag comprising a substantially flat sheet-metal body devoid of surface projections in its median portion arranged to have either side of the body lie close to a binding-band, and two elongated comparatively narrow loops swingably mounted on the end portions of the body arranged to have a binding-band disposed snugly therein and to hold the body close to the band.

1,392,292. DEMOUNTABLE RIM. EDWARD G. BLUE, Grape Creek, Ill. Filed June 14, 1920. Serial No. 388,997. 1 Claim. (Cl. 301—35.)

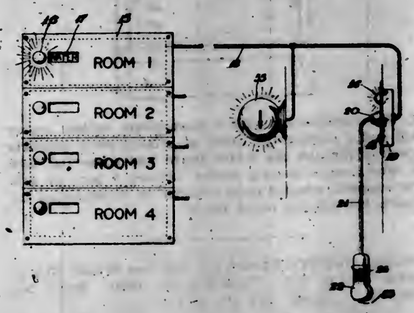
A demountable rim comprising a pair of cylindrical sections having inner oppositely beveled overlapping portions terminating in flat edges, said sections having annular shoulders receiving the flat edges of the beveled inner portions laterally abutting relation in the operative position and being also provided with flanged outer edges and with slotted valve tube receiving openings, one of said sections having circumferentially spaced transversely extending spring catch pieces secured at one end thereto and provided with outwardly projecting locking studs at their free ends, and the other of said sections being provided with apertures to receive the studs and also provided upon its inner face with transverse grooves into which the inner ends of the apertures open, said grooves ex-

tending through the annular shoulder of said section and having the side walls thereof merging into the shoulder



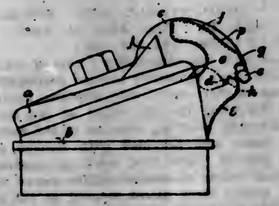
along curved lines to form guides for the free ends of the said spring catches when the two sections are shifted laterally into effectively abutting relation.

1,392,293. **SIGNALING SYSTEM.** BORNETT L. BOBROFF, Milwaukee, Wis. Filed Jan. 5, 1918. Serial No. 210,509. 12 Claims. (Cl. 177—334.)



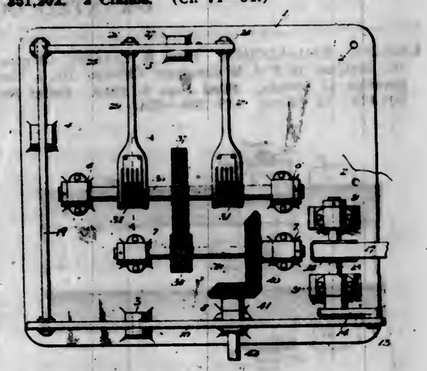
1. An electrical signaling system comprising an electrical circuit including an annunciator operating step by step by successive electrical impulses, a push button located at a distance for transmitting such electrical impulses to the annunciator to produce any one of a number of signals, a plurality of electrical circuits each including a visible indicator in the holder for the push button, and means operated by the annunciator for separately closing the circuits containing the visible indicators.

1,392,294. **VALVE.** EDWARD CYRIL BOWDEN-SMITH, London, England. Filed July 1, 1920. Serial No. 396,412. 4 Claims. (Cl. 251—128.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



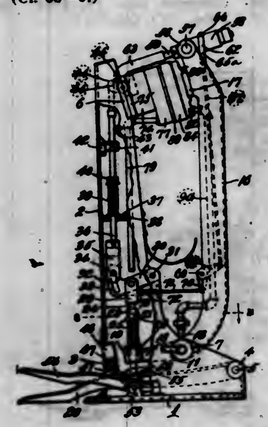
1. A clack valve comprising a casing, an extension on said casing, a valve pivotally connected to said casing, said pivotal connection comprising a V shaped edge on said extension and an arm formed on said valve, and a V shaped groove and lugs on said arm, said V shaped groove coacting with the said V shaped edge on the extension of the valve casing.

1,392,295. **DOUBLE COMPOUND POWER-APPLYING MACHINE.** JOSEPH A. BOZUNG and PATRICK S. MCMAHON, Denver, Colo. Filed Jan. 13, 1920. Serial No. 351,202. 2 Claims. (Cl. 74—54.)



1. In a machine of the character described, a power shaft, two groups of ratchet wheels rigidly mounted on said shaft, a pair of levers having bifurcated ends, which ends are pivotally mounted on said shaft, each bifurcated end inclosing one group of ratchet wheels, pins extending through said bifurcated ends, pawls mounted on said pins and adapted to engage said ratchet wheels, the teeth of each wheel in each group being out of line with those of the next succeeding wheel, an oscillating lever, links connecting the same on each side of its fulcrum, with the free ends of the bifurcated lever, and means for oscillating said lever.

1,392,296. **COLLAR, CUFF, AND NECKBAND PRESS.** CHARLES L. BEALEY and CHARLES E. WARHAM, Cincinnati, Ohio, assignors to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 9, 1916. Serial No. 124,570. 22 Claims. (Cl. 68—9.)



1. In a press, a standard, a stationary pressing member carried thereby, an upwardly extending movable arm

mounted in said standard, a movable pressing member carried by said arm and adapted to cooperate with the stationary pressing member, means for moving the movable arm to bring the pressing member carried thereby into engagement with the stationary pressing member, a device connected to one of said members and adapted to engage over the other of said members and means for causing said device to exert a direct clamping action upon said members.

1,392,297. **AUTOMOBILE-JACK.** ARTHUR E. BURNSIDE, South Jacksonville, Fla. Filed Sept. 27, 1920. Serial No. 412,926. 4 Claims. (Cl. 254—86.)



1. An automobile jack mechanism for motor vehicles comprising a jack member permanently associated with each end of the front axle and rear axle housing, said jack members being pivotally mounted therewith to be capable of swinging movement in a vertical plane, latch members connected with said jack members whereby to maintain them normally elevated and in substantially horisontal position, a flexible member connected with each jack member and leading over suitable guides to a point adjacent the driver's seat, lever operated mechanism connected with said flexible members whereby to swing a selected jack member upwardly into engagement with said latch members, and means for releasing said lever mechanism to permit a selected jack member to swing downwardly so that when the vehicle is driven the jack member thus swung will be rocked into vertical position beneath the axle or axle housing, each jack member including a support, a base plate having a portion thereof hinged, and a brace for holding said hinged portion against movement, and means connected with said brace member whereby upon a pull upon the latter said brace will be released to permit said hinged portion to swing to permit the jack member to swing and allow the axle or axle housing to descend.

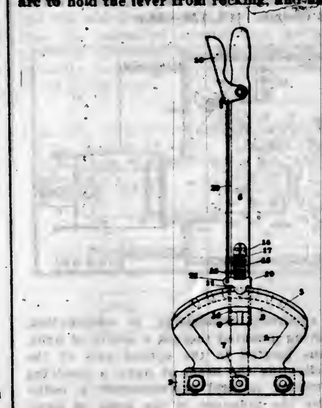
1,392,298. **COLLAR AND NECKTIE HOLDER.** FIAM B. BYRAS, New York, N. Y. Filed Mar. 19, 1920. Serial No. 367,100. 8 Claims. (Cl. 24—81.)



1. A collar and necktie fastener comprising a front curved bar thickened at its outer ends, and elastic arms projected from the inner face of said front bar and forming, with said thickened ends, clasps for the edges of a collar, said elastic arms being bent back at their ends opposite said thickened portions of the front curved bar, and the bends being sharpened to facilitate their engagement with the collar.

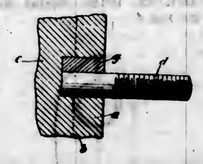
1,392,299. **LEVER.** OSCAR F. H. CARLSON, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Sept. 30, 1919. Serial No. 327,555. 6 Claims. (Cl. 74—39.)

1. In a lever mechanism, the combination with a sector, of a lever pivotally mounted to be rocked lengthwise of the sector, means on the lever coacting with means on the arc to hold the lever from rocking, and means on the lever



operable to spring the lever laterally to release it from said holding means.

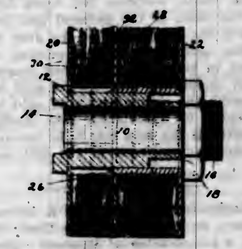
1,392,300. **METHOD OF SECURING ATTACHMENTS TO IRON OR STEEL PLATES HAVING HARDENED SURFACES.** WILLIAM LAWES COLE, Mile End, East London, England, assignor to Quasi-Arc Company, Limited, London, England. Filed May 28, 1918. Serial No. 237,135. 18 Claims. (Cl. 29—160.)



1. The method of securing attachment to surface hardened plating, consisting in making holes in the plating, welding studs in said holes, and securing the attachment to said studs.

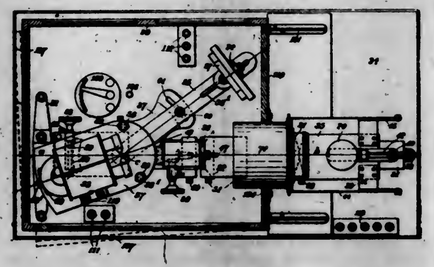
12. The method of securing attachments to surface hardened plating consisting in making holes in the plating by fusing the metal, welding studs in said holes and securing the attachment to said studs.

1,392,301. **APPLYING DEVICE.** JOHN W. COSGROVE, Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 27, 1919. Serial No. 273,257. 16 Claims. (Cl. 91—67.8.)



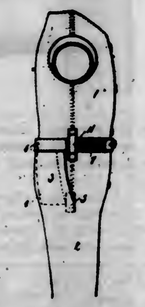
1. An applying device comprising relatively fine filaments of flexible material compressed into a rigid body at the applying surface.

1,392,302. TELEGRAPHY. KENWRICK CECIL COX, Norfolk Island, South Pacific. Filed July 17, 1917. Serial No. 181,462. 6 Claims. (Cl. 178—88.)



1. Telegraphic apparatus comprising, in combination, a common base having mounted thereon a source of light, a condenser, means located in the optical axis of the apparatus for subdividing the beam of light, a receiving galvanometer, a mirror on said galvanometer, a radio-sensitive cell under the influence of the beam of light, and means for adjusting angles of the galvanometer mirror and selenium cell with respect to the projected beam of light without altering the focus, size, definition or character of the projected image, the galvanometer and the cell being adjustable about a point concentric with the axis of movement of the galvanometer mirror substantially as described.

1,392,303. UNION-GARMENT. BESSIE CUSTER, Satanta, Kans. Filed Oct. 22, 1918. Serial No. 259,222. 1 Claim. (Cl. 2—144.)



In a union garment, a drop flap provided with a pair of belt members at its upper ends adapted to extend around the front of the body of the wearer, said belt members provided with elastic sections, belt loops formed on the garment at the sides of the garment and in substantial alinement with the upper edge of the drop flap when in closed position, said belt members passing through and being retained in position by said belt loops and means for adjustably connecting the ends of said belt members together whereby the circumference of said belt members may be increased or diminished, said elastic inserts in the belt permittting the drop seat to be lowered as desired without disengaging the ends of the belt members from each other.

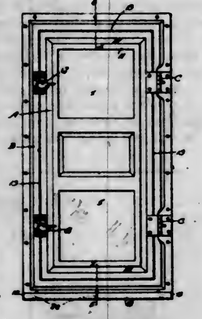
1,392,304. BORING-TOOL. ROBERT R. DAVIS, St. Louis, Mo., assignor to Robert R. Davis Tool Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 17, 1918. Serial No. 254,479. 14 Claims. (Cl. 77—56.)

1. A boring-tool comprising, in combination, a body having a bore, a pair of oppositely-disposed cutters mounted for movement in the body at right angles to the bore, and means for moving the cutters outwardly relatively to the body, said means including a circumferentially threaded wedge-member located in the bore and disposed



wholly within the body for axial movement between the cutters, and a member fitting for rotary movement in the bore wholly to one side of the cutters, said member being held from axial movement and having threaded engagement with the wedge-member.

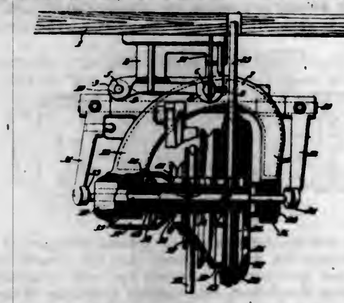
1,392,305. DOOR STRUCTURE FOR AIR-WASHERS AND THE LIKE. ARTHUR A. DAY, Buffalo, N. Y., assignor to Buffalo Forge Company, Buffalo, N. Y. Filed Sept. 18, 1919. Serial No. 324,651. 9 Claims. (Cl. 189—46.)



1. A door structure for air washer casings and analogouse apparatus, comprising a door and door frame made of pressed sheet metal, said door and frame having integral lateral flanges extending along the side and top edges of the door and door opening of the frame and interfitting to obstruct the escape of water, and means adjacent the lower end of the door for directing into the casing any water escaping through the joint between the door and the frame.

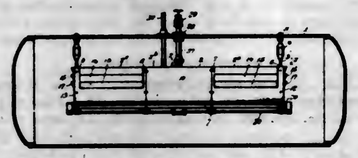
1,392,306. BEARING AND OILING MEANS THEREFOR. ALBERT H. DE VOS, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Original application filed Apr. 1, 1918, Serial No. 225,935. Divided and this application filed Oct. 30, 1918. Serial No. 260,253. 7 Claims. (Cl. 64—31.)

1. In a power-transmitter, in combination, a hanger formed with an oil-well, driving and driven members supported by said hanger, running and thrust bearings for said members, and ports for conducting the oil to said bearings in series and lastly returning the surplus oil to the oil-well, and means for conducting the oil from



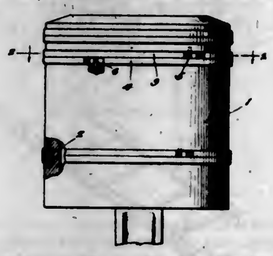
the well to the ports leading to one of the bearings whereby the oil passes through each of the various bearings of the transmitter and then returns to the supply in the well.

1,392,307. BOILER-CLEANER. HARVEY H. DICK, Lincoln, Ill. Filed Oct. 31, 1917. Serial No. 199,414. 2 Claims. (Cl. 122—389.)



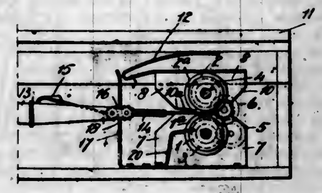
1. A device of the class specified comprising a tank or receptacle constructed of a plurality of substantially V-shaped frames and side and end walls secured to the outer edges of said frames, said end walls and end portions of said side walls being provided with intake orifices at different levels, and a discharge pipe at the angle forming the bottom of said tank or receptacle, said discharge pipe being provided with intake orifices, and a funnel shaped intake member mounted on a pipe supported by said intake pipe, said funnel shaped member having a closed top and side intake orifices.

1,392,308. PISTON-RING ASSEMBLAGE. SILAS T. DOYLE and JOHN L. DICE, Caledonia, Ohio. Filed Nov. 19, 1920. Serial No. 425,176. 1 Claim. (Cl. 74—109.)



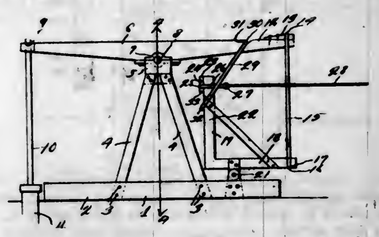
The combination with a solid piston head of a length greater than its diameter and having a circumferential groove formed directly therein and unobstructed from wall to wall, of studs projecting one from the upper side wall and the other from the lower side wall of the groove, the said studs being circumferentially relatively displaced, a relatively thin expanding leaf spring member seated within the groove between the bottom wall thereof and the said studs, and piston rings of greater thickness than the expanding member and having open portions receiving the studs, the outer edges of the piston rings normally projecting beyond the circumferential surface of the piston head.

1,392,309. STROPPING OR SHARPENING APPARATUS FOR RAZOR-BLADES. STANLEY BEAUMONT EARLE, Hornchurch, England. Filed Feb. 14, 1917. Serial No. 148,577. 1 Claim. (Cl. 51—80.)



A device for stropping razor blades comprising in combination, a pair of rolls each of which is provided with an outwardly projecting spirally disposed stropping surface, the stropping surfaces between said rolls being respectively disposed between the stropping surfaces of the other roll, means mounting said rolls to permit them to be moved apart for insertion of a blade therebetween and pressed together to grip the blade with the stropping surfaces on each roll pressing the blade toward the space between the stropping surfaces of the other roll, gearing connecting said rolls and permitting them to be moved apart and positively maintained in the same angular relation when brought together, a box within which said rolls and their mountings are inclosed, and a resilient device adapted upon the lid of said box being closed to urge said rolls toward one another.

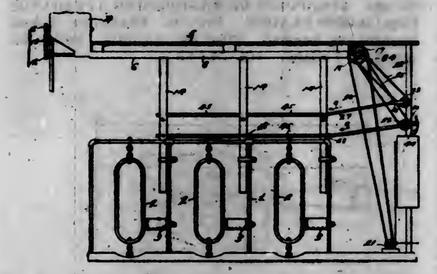
1,392,310. PUMP-JACK. JAMES NEWTON EDWARDS, Skiatook, Okla. Filed June 17, 1919, Serial No. 304,764. Renewed Aug. 17, 1921. Serial No. 493,094. 2 Claims. (Cl. 74—5.)



1. A pump jack comprising a base member, a standard extending upwardly from said base member, a walking beam pivotally mounted in the upper end of said standard, one end of said walking beam having means whereby the same may be attached to a polishing rod, the other end of said walking beam having a link connection with the end of one arm of a right angle lever, said lever being pivotally mounted on the base, means connected to the end of the other arm of the pivoted right angle lever, whereby said lever may be oscillated and a rocking motion imparted to the walking beam and a link loop pivoted to one end of the walking beam and having its lower end arching the upwardly extending arm of the angle lever, in which loop said upwardly extending arm moves and a

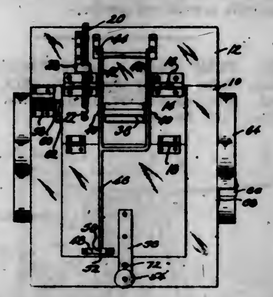
limiting stop carried by the upper end of the upwardly extending arm and adapted to be engaged by the loop when power is removed from the oscillating pivoted right angle lever.

1,392,311. TIME-CONTROLLED FEEDING DEVICE. OSCAR EGELAND, McVille, N. D. Filed Jan. 18, 1921. Serial No. 438,110. 3 Claims. (Cl. 161—10.)



1. A time controlled feeding device comprising a horizontally disposed conveyer pipe, a conveyer in said pipe, downwardly extending discharge pipes carried by the conveyer pipe, one end of said conveyer pipe in communication with a feed bin, means located in the discharge pipes for allowing feed to be discharged from the discharge pipe and for preventing further discharge after the feed has been discharged and means controlled by a clock for discharging the feed from the discharge pipes and working the conveyer in the conveyer pipe.

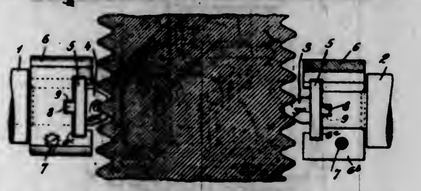
1,392,312. PHOTOPRINTING DEVICE. HENRY G. EISENHAND, Denver, Colo. Filed Jan. 22, 1920. Serial No. 353,197. 2 Claims. (Cl. 95—73.)



1. A photo printing device comprising a frame, a cover hinged thereto, a stamping member set in said cover, and means to operate said stamp as the cover is moved to closed position, comprising a rigid lever mounted on the frame having sliding connection with the cover and adapted to engage a portion of the stamp to depress the latter.

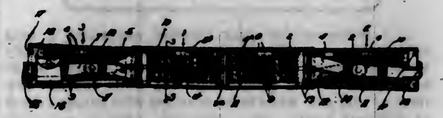
1,329,313. SCREW-THREAD GAGE. GAVIN S. FALLOW, Wethersfield, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 16, 1918. Serial No. 222,869. 11 Claims. (Cl. 33—167.)

1. A thread gage comprising in combination, two measuring devices adapted to be placed in opposed positions on the respective opposed plungers of a measuring machine, which plungers have portions adjacent the ends that are of uniform cross section throughout, the said devices being provided respectively with male and female thread engaging points and being constructed to be movable transversely of the plunger axes, and holders adapted to engage the sides of the plungers for holding the respective measuring devices in place on the plungers while permitting them to automatically adjust themselves transversely.



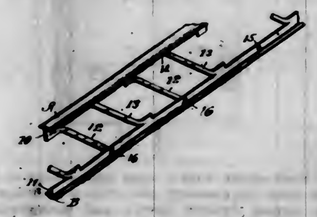
9. The combination of the two opposed plungers of a measuring machine, which plungers have flat parallel end surfaces and have portions adjacent the ends of uniform cross section throughout, two opposed measuring devices provided at their outer sides with flat surfaces in engagement respectively with the corresponding flat surfaces of the plungers and provided respectively at their inner sides with male and female thread-engaging points adapted to fit each other so that a zero point can be established by moving the plungers so as to bring the said points together, and holders engaging the sides of the plungers for holding the respective measuring devices in place while permitting the said devices to independently adjust themselves in any direction perpendicular to the plunger axes or angularly about any axis within a limited range parallel to or coinciding with the plunger axes.

1,392,314. GARMENT-SUPPORTER. JACOB N. FAUST and CLYDE A. FAUST, Chicago, Ill. Filed June 7, 1920. Serial No. 386,936. 8 Claims. (Cl. 241—8.)



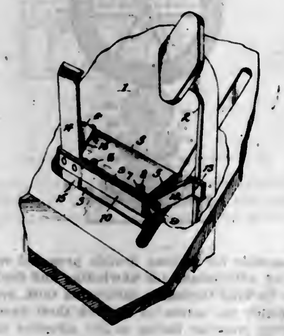
1. A supporting device for trousers or similar garments, comprising a back section and a pair of end sections, and flexible connections between each end section and the back section, said connections being adjustable lengthwise to vary the distance between the end and back sections and including a pair of straps extending lengthwise and forwardly for adjustable connection to each other at the front of the body.

1,392,315. METAL-REINFORCING FRAME FOR CONCRETE STRUCTURES. WILLIAM E. FICKLEN, Norfolk, Va. Filed Jan. 24, 1914, Serial No. 814,051. Renewed Jan. 8, 1920. Serial No. 350,244. 3 Claims. (Cl. 72—113.)



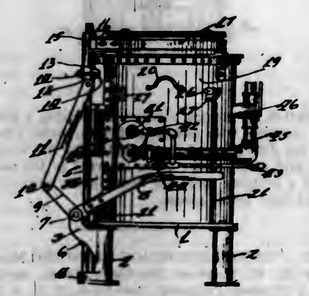
1. A reinforcement for concrete structures, comprising a pair of T-bars arranged with their webs toward each other, but spaced apart, stiffening members, cut from the edge of each of said webs and extending straight across to the web of the other, there being holes in each of said webs, and the ends of said stiffening members being split, passed into said holes, and secured in place.

1,392,316. TRANSMISSION-CONTROL DEVICE FOR MOTOR-VEHICLES. STANLEY W. FINCH, Washington, D. C., and EDWARD M. KENNARD, Clarendon, Va. Filed Nov. 5, 1920. Serial No. 421,946. 3 Claims. (Cl. 74—81.)



1. In combination with the transmission positioning lever of an automobile; a base adapted to be secured to a fixed portion to one side of the lever; a ball shaped frame pivotally mounted on the base; an arm extending outwardly from that end of the frame adjacent the lever; a finger extending from the arm into the path of movement of the lever; a spring acting to rock the frame upwardly; and a foot lever secured to the frame for moving the same in opposition to the spring.

1,392,317. BRASS-FURNACE. ALFRED FISHER, Chicago, Ill. Filed Feb. 24, 1920. Serial No. 360,678. 16 Claims. (Cl. 263—11.)



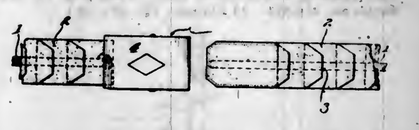
1. A furnace of the class described having a fire-pot provided with a plurality of horizontal over-hanging shoulders, and peripherally and downwardly directed blast-burners opening obliquely through the side of the furnace adapted to direct reducing flames centrifugally around the furnace crucible, said flames adapted to be choked by said overhanging shoulders to cause an even heating and reduction of the metal in said crucible.

1,392,318. WRENCH. CHARLES FREDERICK FLETCHER, Farmington, W. Va. Filed May 26, 1921. Serial No. 472,643. 2 Claims. (Cl. 81—118.)



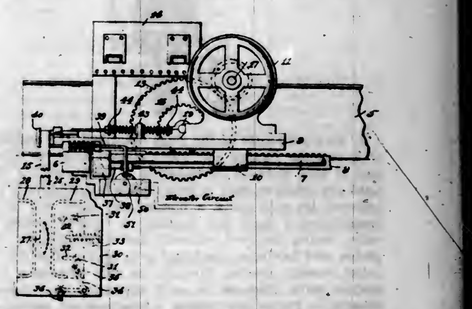
1. In a wrench, the combination with a body having a stationary wrench jaw at one end of a movable jaw provided with a disk, said disk being pivotally mounted in a recess of the body, a vertically disposed screw disposed within the recesses and having its ends provided with rectangular shaped portions disposed in vertically alined rectangular shaped recesses, a thumb nut threaded on said vertically disposed screw, a radially disposed shoulder carried by the disk of the movable jaw with which shoulder the thumb screw engages, a coiled spring disposed within the recess of the body, said coiled spring having one of its ends disposed in an arcuate recess in the disk, the other end of said screw engaging the lower rectangular shaped portion of the vertically disposed feed screw, said feed screw being maintained in engagement with the rectangular shaped recesses by means of the coiled spring and the disk.

1,392,319. BELT. JULIUS E. FRANK, St. Louis, Mo. Filed Apr. 19, 1920. Serial No. 374,862. 6 Claims. (Cl. 241—8.)



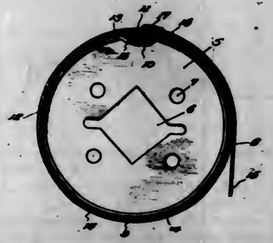
1. A belt comprising a cincture and a plurality of interlocking links strung thereon so as to cover said cincture and so as themselves to be relieved of tensile and shearing stresses.

1,392,320. ELEVATOR-DOOR-OPERATING MECHANISM. CLAUD L. FULGHUM, Quincy, Ill. Filed Sept. 11, 1920. Serial No. 409,687. 9 Claims. (Cl. 187—52.)



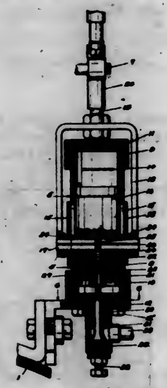
1. An elevator-door operator comprising a platform movable on the top of the elevator-car, a power mechanism for moving said platform back and forth mounted on the platform, a door-arm pivoted on the platform and constructed to engage the door to be operated, means for controlling said pwer mechanism from within the car, a buffer mechanism for stopping the movement of the door, and means operated by the door-arm for stopping the power mechanism.

1,392,321. STOCK-ROLL. WILLIAM F. GAMMETER, Cadis, Ohio. Filed Apr. 6, 1920. Serial No. 371,584. 1 Claim. (Cl. 242—68.)



A stock roll comprising a hub structure, a split cylindrical inner tube carried thereby a split tube telescoping over the inner tube and having the joint and split thereof spaced radially from the joint of the first tube, the inner tube being provided exteriorly with a longitudinal groove registering with the split in the outer tube and the edges of the split in the outer tube being out of contact with and projecting over the walls of the groove in the inner tube, and means for securing the tubes permanently together, said means being located adjacent the splits in the respective tubes.

1,392,322. ENGINE OR MOTOR. GEORGE W. GILL, Battle Creek, Mich., assignor of one-fourth to William L. Carroll, one-fourth to Bernie W. Ward, and one-fourth to Carl Sanberg, Battle Creek, Mich. Filed Aug. 11, 1919. Serial No. 316,821. 11 Claims. (Cl. 121—2.)



1. In a structure of the class described, the combination of a cylinder having side ports spaced from its ends, one end of said cylinder constituting a work and the other a dash pot chamber, said cylinder being longitudinally slotted between its said ports, a piston, the outer end of which constitutes a dash pot member, a tubular piston relief valve casing disposed centrally and longitudinally of said piston and having a discharge port at its outer end and a relief passage opening through the side thereof, a plunger piston valve disposed in said casing to seat outwardly therein, a piston pin having a longitudinal passage communicating with the discharge port of said piston valve casing, an inlet valve casing communicating with the inner end of said cylinder, a plunger inlet valve projecting into said cylinder to be engaged by said piston valve on the return stroke of said piston whereby said inlet valve is unseated, a sleeve slidable on said cylinder, slides disposed within said sleeve coacting with said slots of said cylinder, and a pitman yoke engaging said piston pin.

1,392,323. MACHINE FOR MAKING FLEXIBLE WATERPROOF ROOFING. SOLOMON H. GOLDBERG, Chicago, Ill., assignor to Charles S. Bird, Walpole, Mass. Filed May 23, 1914. Serial No. 840,403. 1 Claim. (Cl. 91—16.)



In a machine for making flexible prepared roofing, the combination with means for unwinding and feeding a roll of flexible backing through a saturating tank, presser rolls through which the saturated backing sheet passes, means for applying granular facing to the adhesive face of the sheet, and means for applying a printed design on the granular facing, comprising a printer roll, a pressure roll cooperating therewith, a plurality of rolls for feeding regulated quantities of liquid to the printer roll and a liquid supply tank in which the feeding rolls ride.

1,392,324. SWITCH FOR ELECTRIC CIRCUITS. ALEXANDER GRAF, Berlin-Hermsdorf, Germany. Filed Nov. 28, 1919. Serial No. 341,227. 4 Claims. (Cl. 200—155.)

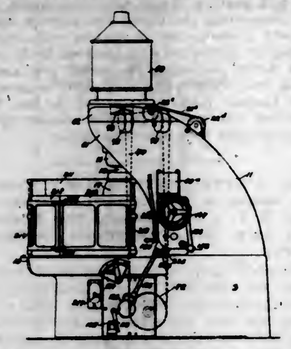


1. A switch for electric circuits comprising a base of insulating material with channels therein, metal pieces with holes in the directions of their lengths for the wires of the circuits, said metal pieces being inserted in the said channels, and a bridging piece for establishing connections between the said metal pieces.

1,392,325. VERTICAL-SURFACE-GRINDING MACHINE. BENOT M. W. HANSON, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed July 31, 1918. Serial No. 247,633. 15 Claims. (Cl. 51—67.)

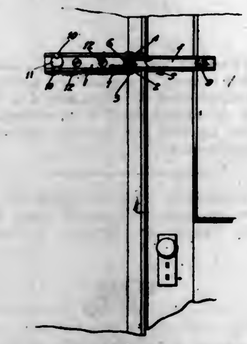
1. In a grinding machine, the combination of a horizontally movable work supporting table, a wheel head positioned above the table and capable of vertical movement, a grinding wheel and a spindle therefor rotatably mounted in the head, driving means for said wheel comprising a motor mounted in alinement with the axis of said wheel, a shaft connected to said motor having a slidable connection with said wheel spindle whereby the head with the spindle and

wheel may be moved vertically independently of the motor and its shaft while the wheel engages the work and with-



out disturbing the power connection, and means in said head for resiliently thrusting said wheel and spindle upward independently of said motor and motor-shaft.

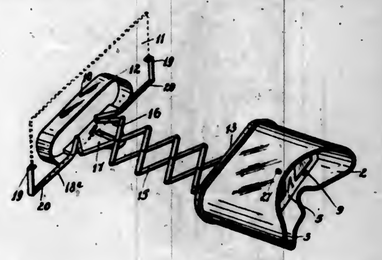
1,392,326. BURGLAR-ALARM. JAMES F. HADWICK, Owensboro, Ky. Filed Oct. 1, 1920. Serial No. 413,978. 1 Claim. (Cl. 116—67.)



A burglar alarm comprising a channeled plate provided with spaced ears at one end and having overhanging lips at the opposite end to retain an explosive thereon, said plate being adapted to be secured upon a fixed support, a second channeled plate pivoted at one end between said ears and adapted to extend over a relatively movable object, a spring coiled about the pivotal connection between the two members and having its opposite ends secured to the respectively adjacent plates whereby to swing the second-mentioned plate forcibly onto the first-mentioned plate, and a firing-pin on the free end of the second-mentioned plate, one of the ears on the first-mentioned plate being extended beyond the pivot toward the second-mentioned plate and provided with an inwardly extending projection on its inner side to yieldably engage over the edge of the second-mentioned plate and normally hold the plates in extended relation against the action of the spring.

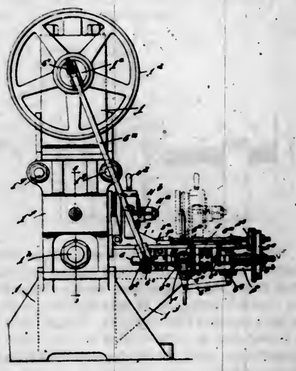
1,392,327. FOLDING STEREOSCOPE. JOHN MCDONALD HATTERSLEY, Birmingham, England. Filed Oct. 20, 1920. Serial No. 418,296. 5 Claims. (Cl. 88—29.)

1. A folding stereoscope comprising a rigid hood member, a flange on the forward end of said hood member, a lens carrying member within said hood having a pair of lenses, a rigid picture carrying member corresponding in shape with the hood member, a flange on the rear end of said picture carrying member adapted to fit around the flange



on the hood member and form a closure therefor, end extensible connecting means secured to said hood and to said picture carrying member whereby the picture carrying member can be extended for use.

1,392,328. SWAGING AND FORGING PRESS. LEWIS W. HEATH and HUBERT D. COOK, Hastings, Mich., assignors to Consolidated Press Company, Hastings, Mich., a Corporation of Michigan. Filed Aug. 15, 1918. Serial No. 249,937. 13 Claims. (Cl. 78—98.)

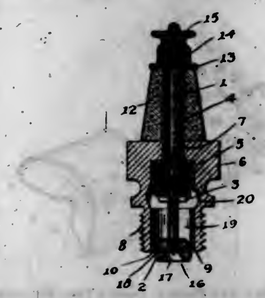


1. In a forging and swaging press the combination of a main frame having openings in its sides, recessed castings connected to the frame opposite said openings, spacing members interposed between the opposite castings, tie bolts extending through said spacing members and said castings and binding the same to the frame, a reciprocating plunger, slide guides, slides mounted in said guides, die members carried by said slides, toggles connected with the slides and with abutments in said castings, and means connecting said plunger with the said toggles to straighten and break them.

1,392,329. SPARK-PLUG. DAVID S. HENNEY, Montclair, N. J. Filed Oct. 4, 1919. Serial No. 328,402. 3 Claims. (Cl. 123—169.)

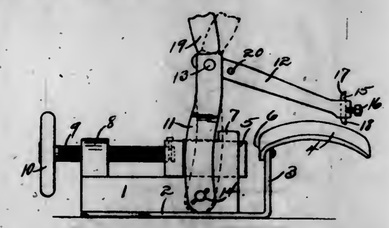
1. In a device of the class described, the combination of a metallic shell, of a metallic spindle extending therethrough and provided at its lower end with an electrode, which forms a spark gap with the lower edge of the shell, a covering of insulating material comprising a strip of mica wrapped around the spindle, said covering extending through the shell into the interior thereof, a shoulder pro-

vided upon the spindle upon which said covering rests, a bushing of insulating material positioned between said shoulder and the inner surface of the upper wall of said



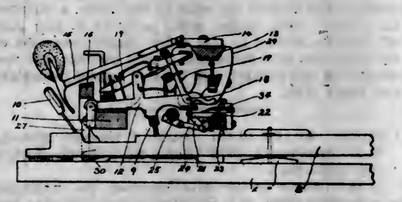
shell, and an insulator formed of plastic material molded about the insulating covering exteriorly of the shell and resting upon the inner wall of the shell.

1,392,330. MACHINE FOR CUTTING TIRE-CASING TREADS AND REMOVING BEADS. CASSELL D. HIBBS, Fort Worth, Tex. Filed June 2, 1919, Serial No. 301,151. Renewed Mar. 5, 1921. Serial No. 449,743. 5 Claims. (Cl. 164—45.)



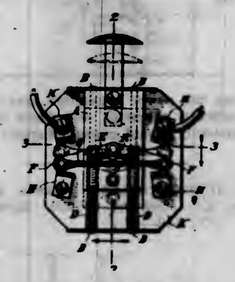
1. A tool for operating on tire casings comprising a frame having a channel therein, a casing support, a flange projecting from said frame and terminating with an upstanding member attached ta said support, a plunger operating in said channel for clamping casings on said support, a blade holder and a blade carried thereby, and a swinging yoke mounted on said frame for adjusting and directing said blade holder.

1,392,331. PIANISSIMO DEVICE FOR GRAND PIANOS. JOHN A. HUSSEY, De Kalb, Ill. Filed Sept. 27, 1919. Serial No. 328,046. 3 Claims. (Cl. 84—223.)



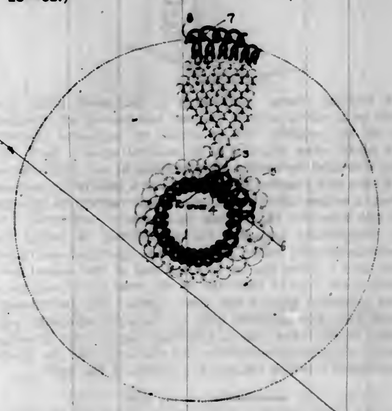
1. In combination with the keys and hammer action of a grand piano, said hammer action including a rest rail, an action frame, and an action support, a pianissimo device comprising an operating rod for raising the hammer rest rail, a depending arm carried by the rest rail, a rock shaft journaled in the action frame, a rocker arm carried by said rock shaft, a thrust rod for each key, means for movably supporting the thrust rod between the key and the support normally out of contact with both and for connecting the thrust rod with the rock shaft, and a lever and link device connecting the rocker arm and the said depending arm, whereby the rock shaft is operated whenever the hammer rest rail is raised, so tha. the thrust rod is moved into vertical position between the key and its action support to support the latter.

1,392,332. ELECTRIC SWITCH. LEE P. HYNES, Albany, N. Y., assignor to Consolidated Car-Heating Company, Albany, N. Y., a Corporation of West Virginia. Filed Oct. 7, 1919. Serial No. 329,076. 8 Claims. (Cl. 200—76.)



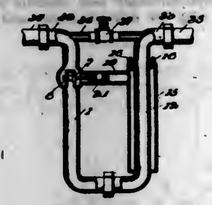
1. An electric switch comprising a base, a reciprocating member mounted thereon, a contact arm pivoted on said member, a stationary post on which said arm has a sliding bearing as its pivoted point is reciprocated, and an actuating spring for said arm movable therewith across the pivoted axis thereof.

1,392,333. FLOOR-MAT AND METHOD OF MAKING SAME. EDMOND JACKSON, Newport News, Va. Filed July 3, 1919. Serial No. 308,371. 2 Claims. (Cl. 15—62.)



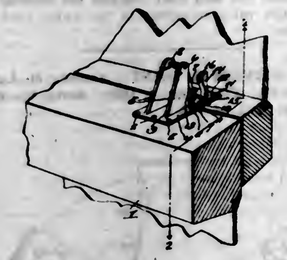
1. A mat formed from a single length of rope and comprising an annular nucleus about which nucleus a portion of the rope is looped in a series of helices, another portion of the rope being looped in a spiral and forming other helices interlooping with the first mentioned helices to produce the body of the mat.

1,392,334. AUTOMATIC REGULATING-VALVE. ARTHUR B. JOHNSON, U. S. Navy. Filed May 20, 1919. Serial No. 298,447. 8 Claims. (Cl. 236—42.)



1. In a regulating valve, a fluid inflow pipe, a fluid outflow pipe, a jacket upon one of said pipes for containing a heat expansible fluid, a branch establishing rigid connection between and communication with the other pipe and the jacket, a valve in the last-mentioned pipe for controlling the flow through the pipes, a fluid pressure means in the said branch for controlling the valve and actuated through the expansion of the fluid in the said jacket, and a valved vent in the said means.

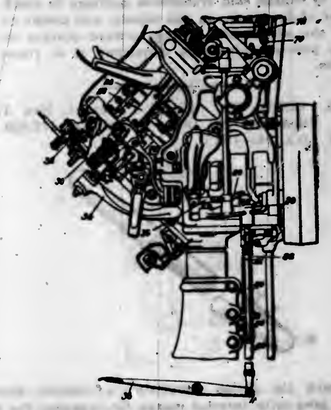
1,392,335. WINDOW-LOCK. ROLAND E. JOHNSON, Medford, Mass. Filed Dec. 18, 1918. Serial No. 267,274. 1 Claim. (Cl. 292—128.)



In a window sash latch the combination with a stationary hook on the lower rail of the upper sash, of a spring tensioned latch hook pivotally supported on the upper rail of the lower sash, said spring tensioned latch hook being inclined downwardly and overlying the lower rail of the upper sash at an acute angle for engagement with said stationary hook when the two sashes are closed, said latch hook having a lateral arm, and a flexible lug carried by the lower rail of the upper sash and adapted to be engaged by said lateral arm to support the latch and hold its hook out of engagement with the stationary hook, said lug extending into the path of movement of said arm and adapted to be flexed back thereby on opening or closing the window, and to spring back into said path to hold the latch out of operative position.

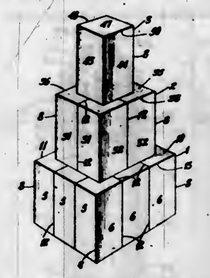
1,392,336. MACHINE FOR SHAPING UPPERS OVER LASTS. BERNHARDT JORGENSEN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 25, 1919. Seial No. 319,617. 27 Claims. (Cl. 12—4.)

1. In a machine of the class described constructed to perform its cycle of operations in successive stages after each of which the machine comes automatically to rest, the combination with starting means movable to initiate the operation of the machine at each stage of the cycle, of means for engaging the marginal edge of the sole of the shoe to position it relatively to the last in one stage of the cycle, and means operated by a subsequent movement



of said starting means to cause said sole-engaging means to be withdrawn from operative position independently of the power operation of the machine.

1,392,337. COLLAPSIBLE-CARTON DISPLAY. GORDON KAY, New York, N. Y., assignor to Carl G. Percy, Yonkers, N. Y. Filed Dec. 23, 1920. Serial No. 432,699. 13 Claims. (Cl. 40—126.)



1. A collapsible display device in the form of a stepped pyramid, comprising a plurality of sections constituting the respective steps of the pyramid and each adapted to fold flat, and means for attaching each of said sections to the top of the section immediately beneath it, said attaching means permitting collapse of the assembled sections.

1,392,338. AUTOMOBILE-LIFTER. LUKE L. KELLOGG, Fredonia, N. Y. Filed Nov. 4, 1919. Serial No. 335,573. 2 Claims. (Cl. 254—88.)



1. An automobile lifter comprising side portions having ends which are inclined in the direction of approach thereto, cradles connecting said ends and providing side slots at the bottom thereof, and transverse frame members, supporting wheels arranged in pairs, and upon the peripheries of which side portions of the frame rest, said

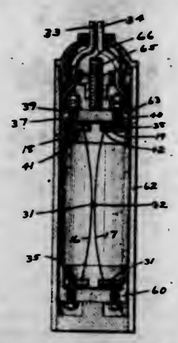
wheels extending into said slots, vertically adjustable bankers carried by said side portions, said wheels being designed to engage said transverse members to check the movement of the frame on the wheels, and means at the front of the wheels and at the forward portion of the frame to prevent retrograde movement of te frame on the wheels.

1,392,339. CORD-TIP. JAMES P. KELLY, New York, N. Y. Filed May 25, 1921. Serial No. 472,429. 5 Claims. (Cl. 24—143.)



5. A cord tip device comprising a member having clamping jaws with interior means for engaging the end of a cord and preventing said jaws from slipping from the end of the cord, and a sleeve surrounding said jaws but slidable with respect thereto, for holding said jaws in engagement with the end of the cord.

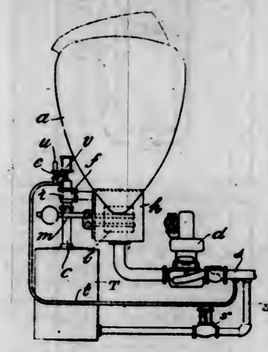
1,392,340. THERMOSTAT. EDWIN B. LANE, West Hoboken, N. J. Original application filed Nov. 4, 1916, Serial No. 129,605. Divided and this application filed Jan. 28, 1918. Serial No. 214,078. 8 Claims. (Cl. 200—137.)



8. A thermostat combining a pair of leaf-springs bowed toward each other, contacts riveted to the springs and normally abutting one another to complete an electric circuit, means at either end of the springs for insulating them from each other and from the casing of the apparatus and for limiting the movement of the springs away from each other, the casing being responsive to temperature changes for permitting movement of one of said retaining means to effect making and breaking of the circuit at predetermined temperatures, and means for adjusting the other retaining means toward and away from the first retaining means to vary the standard of temperature maintained.

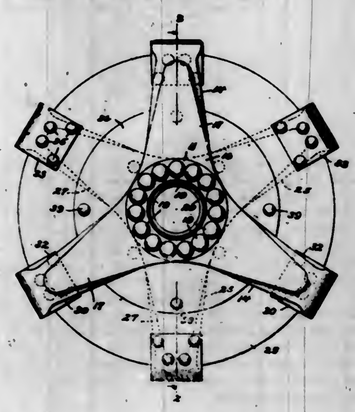
1,392,341. FEED-WATER SYSTEM FOR STEAMSHIPS. CHARLES RUSSELL LANG, Glasgow, Scotland, assignor to G. & J. Weir, Limited, Glasgow, Scotland. Filed July 17, 1919. Serial No. 311,587. 4 Claims. (Cl. 103—86.)

1. In a feed water system employing a feed tank for steam-ships the combination with a condenser, a main feed conduit, a water-extraction pump for withdrawing the water of condensation from the said condenser and delivering it into the said main feed conduit, a feed-tank, a by-pass connecting the said main feed conduit with the feed tank, a supplementary feed conduit connecting the said feed tank with the said condenser and an automatic



valve on the said supplementary feed conduit, of a collecting chamber for receiving the water of condensation from the condenser, a float in the said chamber, and means whereby the said float controls the opening of the said automatic valve according to the water level in the said chamber.

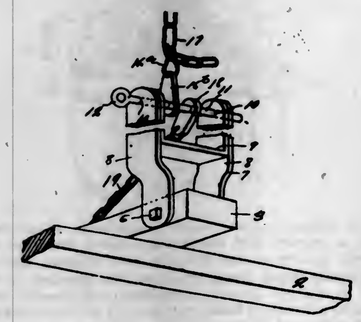
1,392,342. UNIVERSAL JOINT. ARTHUR M. LAYCOCK, Fortyfort, Pa. Filed Sept. 4, 1920. Serial No. 408,173. 10 Claims. (Cl. 64—96.)



10. An attachment adapted for use as a universal joint connection between alined driving and driven shafts comprising a pair of similar spring metal disks with similar radiating arms super-posed and fitting each other and having corresponding central openings adapting them to be secured to the end of one shaft the outer ends of the arms being bent forwardly away from the shaft end and inwardly in U form, a spring metal plate having a central opening transversely in advance of said disks the inwardly bent ends of the superposed section of the arm being brought to position bearing against said plate on opposite sides, means for securing said ends to said plate, a similar

pair of disks and radiating arms similarly curved and secured to said plate at points in staggered relation to said first mentioned arms and adapted to be secured at its center to the other shaft, the outer layer of each arm at the U bend being spaced slightly from the inner layer to permit the spring action without binding.

1,392,343. LOAD-SECURING MEANS FOR FREIGHT-CARS. ORSON M. LEISHMAN, Baker, Oreg. Filed Sept. 30, 1920. Serial No. 413,840. 1 Claim. (Cl. 280—79.)



The combination with a flat car, of a load holding device therefor, said load holding device comprising pivoted brackets pivoted to opposite sides of the car, said pivoted brackets being pivotally connected to the car at their lower ends, removable pins carried by the pivoted brackets adjacent their free ends, stay chains detachably connected to the pins and extending inwardly and downwardly and having their free ends detachably connected to the car flooring, and a load holding chain having one of its ends detachably connected to one of the pins and passing over the load and having its other end detachably connected to the removable pin of the pivoted bracket at the other side of the car.

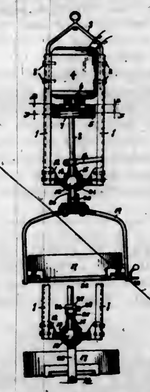
1,392,344. ENVELOP. PAUL JOSEPH LEMMER, Groton, Conn. Filed Apr. 29, 1920, Serial No. 377,560. Renewed Mar. 22, 1921. Serial No. 454,415. 1 Claim. (Cl. 229—86.)



The combination with an envelop having a flap, of an opener for said envelop, said opener comprising a strip of tape adhesively secured to the inner face of the envelop, transversely disposed members extending across the tape and spaced from each other, said transversely disposed members being adhesively secured to the inner face of the flap and forming means whereby during a flap severing operation an intermittent jerking operation will be imparted to the tape for insuring a quick severance.

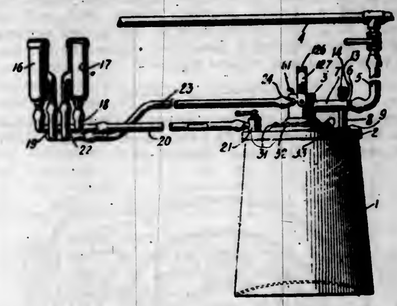
1,392,345. POWER-AGITATOR. ROBERT G. LOWE, Clawson, Mich. Filed Aug. 5, 1920. Serial No. 401,432. 4 Claims. (Cl. 83—60.)

1. In combination, a pair of frame bars and means to suspend said bars, an electric motor mounted between the bars and having a vertical shaft, a cross bar below the motor having a spherical socket for a ball, a supporting



shaft and a ball thereon seated in said socket, a connection between the shaft and motor whereby the shaft is caused to gyrate, and a container attached to said supporting shaft.

1,392,346. PULSATING MECHANISM. HERBERT MCCORNACK, Bloomfield, N. J., assignor to Empire Cream Separator Company, Bloomfield, N. J., a Corporation of New Jersey. Filed July 2, 1917. Serial No. 178,078. 43 Claims. (Cl. 31—101.)



1. In vacuum operated pulsator mechanism, the combination of a valve for controlling the action of the vacuum and means operated by an unbalanced pressure condition produced by the vacuum for actuating said valve, said means having an initial resistance to movement greater than its resistance to continue movement after such initial resistance has been overcome.

4. In a pulsator, the combination of a casing having a motor chamber therein, a fluid pressure operated valve actuating diaphragm in said chamber, said casing having a second chamber therein, valve means actuated by said diaphragm for controlling the connection of said second chamber with a source of vacuum and with the atmosphere respectively, and a fluid pressure connection between said second chamber and said motor chamber.

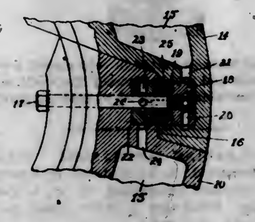
7. In fluid operated pulsator mechanism, the combination of valve means for controlling the operating fluid and means for moving said valve means including a flexible resilient metal diaphragm having an initial conformation convex to the direction of application of the operating pressure.

15. In a pulsator, the combination of a pair of oppositely facing valve seats, a valve stem, a puppet valve

slidingly mounted on said valve stem and adapted to seat on one of said seats, a spring carried by said valve stem and engaging said valve, a second puppet valve adapted to seat on the second of said valve seats, and an abutment on said valve stem for engaging said second valve and lifting it from its seat.

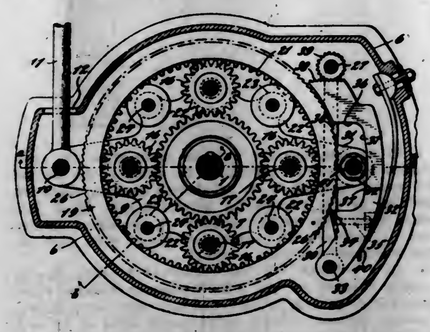
40. A milking machine pulsator including a casing haing a motor chamber therein, a motor element in said chamber, a pulsation chamber formed in said casing, said casing having a port opening into said pulsation chamber, a puppet valve for closing said port, and a reciprocating valve atem for actuating said valve, said stem extending into the motor chamber and adapted to be reciprocated by engagement with said motor element.

1,392,347. COLLAPSIBLE CORE. THOMAS MIDGLEY, Hampden, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Jan. 6, 1920. Serial No. 349,806. 6 Claims. (Cl. 18—45.)



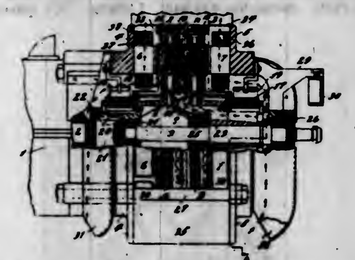
4. In a collapsible core, a pair of adjacent hollow sections, and a member passing between said sections through their abutting surfaces to fasten said sections together and providing a passageway connecting the hollow interiors of said sections with each other.

1,392,348. POWER-TRANSMISSION DEVICE. WILLIAM D. MOUNT, Lynchburg, Va. Filed Sept. 4, 1920. Serial No. 408,257. 11 Claims. (Cl. 74—34.)



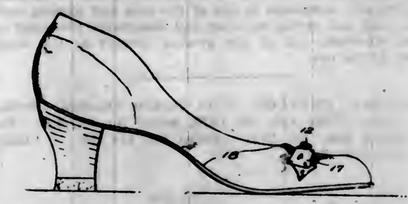
1. In a power transmission device, a driven shaft, a gear secured to the shaft for driving the same, a rocking member pivoted to the shaft, a plurality of pinions carried by said member and meshing with said gear, a second gear meshing with said pinions and rotatable about the shaft as an axis, means for oscillating said member, a spring pressed pawl adapted when effective for preventing movement of the second gear in one direction, means carried by the member for engaging with said pawl to render it ineffective, and means for selectively adjusting the position of the pawl to vary the portion of each oscillatory movement of the member during which the means carried by the member will hold the pawl ineffective upon the gear.

1,392,349. ELECTROMAGNETIC TRANSMISSION. ALFONS H. NEULAND, San Francisco, Calif., assignor to Neuland Electrical Company, Inc., San Francisco, Calif., a Corporation of New York. Filed Dec. 17, 1917. Serial No. 207,509. 17 Claims. (Cl. 172—239.)



1. An electro-magnetic power transmission device comprising a primary field element, a primary armature inductively related to the primary field element, one of said primary parts being rotatable and arranged to be driven by a prime mover, a secondary field element, and a secondary armature inductively related to the secondary field element and to the primary armature, one of said secondary parts being rotatable and arranged to be connected to a mechanical load, and the windings of the two field elements being connected in multiple and the two armatures being connected in series with each other and in series with the multiply connected fields.

1,392,350. VENTILATOR FOR SHOES. DANIEL M. O'BRIEN, Sayre, Pa. Filed May 1, 1919. Serial No. 293,909. 1 Claim. (Cl. 36—3.)



The combination with a shoe, of a plate bearing against the outer surface of the shoe near the toe portion thereof and provided with spaced transverse slots and an intermediate opening, a ribbon threaded through the slots and over the opening to form a bow, an exteriorly threaded stud extending through the opening in the plate and piercing the ribbon, said stud being provided throughout its length with an aperture communicating with the interior of the shoe and having an enlarged head bearing against the inner surface of said shoe, and an internally threaded cap engaging the exterior threads of the stud and provided with an aperture registering with the aperture in the stud, said cap bearing against the ribbon and serving to clamp the bow, plate and stud in position on the shoe.

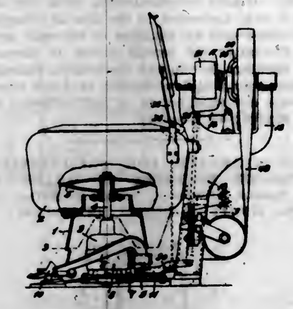
1,392,351. CARD GAME. RAY F. PARKS, Melrose, Iowa; W. E. Parks administrator of said Ray F. Parks, deceased. Filed Aug. 13, 1919. Serial No. 317,335. 3 Claims. (Cl. 46—25.)

1. A card game of the character specified comprising a pack of which the cards are divided into: a main set, subdivided into separate card groups one of which contains the objective or "Kaiser" card, while the other groups are distinguishably representative of events leading up to the attainment of such objective, said groups being playable in succession according to the natural sequence of the events indicated; a set of delay cards for interrupting the play of the main set, such delay cards being distinguishably representative of difficulties or



incidents attendant upon the events indicated by the cards of the main set and having a retarding playing value with reference to the unit of such set; and a set of release cards playable in succession to the cards of the delay set, said release cards being distinguishably representative of events counteractive to the delay incidents and having a playing value counteracting or neutralizing the reverse value or effect of the delay unit.

1,392,352. CONTROL FOR EXTRACTORS. SYDNEY PRESTWICH, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 8, 1917. Serial No. 147,446. 6 Claims. (Cl. 192—116.)



2. An extractor, comprising a rotatable basket, power driving means therefor, a guard cover for said basket, a lock therefor, a basket brake, brake operating means, and operating connections between said brake operating means and lock and between said brake operating means and power driving means, whereby actuation of said brake controls both said cover and the application of power to the basket.

1,392,353. EXTENSION-RAIL. THOMAS QUINN, Huntington, W. Va. Filed Apr. 12, 1920. Serial No. 373,246. 6 Claims. (Cl. 238—10.)



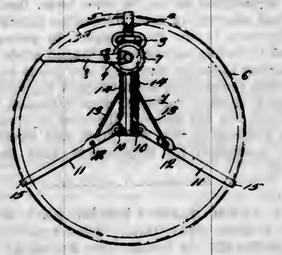
4. In a device of the character described, the combination of an extension rail formed to slidably fit over a track rail, and a bumper carried by the extension rail.

1,392,354. VALVE. MATTHEW S. RILEY, Ocean Park, Calif. Filed July 3, 1920. Serial No. 393,809. 1 Claim. (Cl. 251—139.)



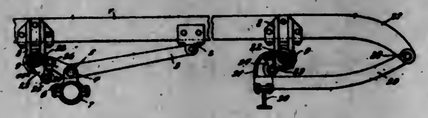
A device for the purpose set forth comprising a spindle having its lower portion enlarged and exteriorly threaded, an annular head at the lower end of said spindle, a flexible washer fitted about the lower portion of the spindle and against the head thereof, a rigid washer fitted loosely upon the spindle and resting upon the flexible washer, a polygonal nut engaged upon the threaded portion of the spindle whereby the washers may be clamped between said nut and the head of the spindle, and a smooth faced wear plate fitted loosely about the spindle and resting upon the nut, said wear plate being adapted to engage loosely against the lower end of a rotatable valve shank and said spindle being adapted to loosely fit within a central longitudinal socket in the end of said valve shank whereby the shank may rotate about or move longitudinally on the said spindle without imparting motion to the spindle.

1,392,355. COMBINED JACK AND RIM-CONTRACTOR. FRED C. RHODE, Fairview, Mont. Filed Sept. 30, 1920. Serial No. 413,810. 2 Claims. (Cl. 254—131.)



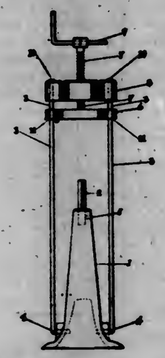
1. The combination with a base of a jack, of pivoted base members pivoted to said base, arms pivoted to the pivotal base members at points spaced from their pivotal points and racks carried by the jack base and adapted to be engaged by said pivoted arms and forming means whereby the pivoted base members may be positioned at various angles in relation to the jack.

1,392,356. SUSPENSION FOR VEHICLES. OSCAR C. RIXSON, New Rochelle, N. Y. Filed Jan. 31, 1920. Serial No. 355,478. 19 Claims. (Cl. 267—20.)



3. In a spring suspension for vehicles, the combination of the body frame, an axle having a non-resilient extension, a crank arm rotatably and non-resiliently carried by the frame, a spring for opposing rotary movement of the crank arm in one direction, a link pivotally depending from the axle extension and also pivoted to the free end of the crank arm, the strength of the spring having a value sufficient when the vehicle carries its normal load to bring the body to rest with the crank arm substantially horizontal and yielding when subjected to an excessive load to permit rotation of the crank arm until the pull thereon is in a direction substantially along the direction of its length for a maximum relative movement between the body frame and axle.

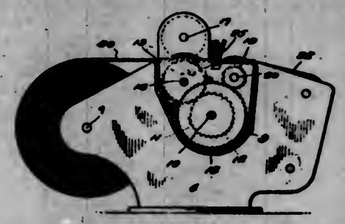
1,392,357. CLAMPING DEVICE FOR SHOE-HEELS. HERBERT H. ROOSA, Lincoln, Nebr. Filed Sept. 27, 1917. Serial No. 193,419. 7 Claims. (Cl. 12—125.)



1. In a clamping device for shoe heels, the combination with a last support, of a clamp carrier pivotally mounted with reference to the last support to swing about the same and including oppositely arranged guide rods, and a clamp having openings receiving said guide rods and movable thereon toward and from the last support and having a clamping surface inclined with reference to a plane perpendicular to the general direction of clamping action so as to conform to the heel pitch and terminating in a shoulder positioned for engagement with the rear edge of a heel.

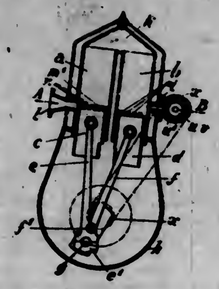
1,392,358. GUM-TAPE CUTTER AND MOISTENER. ROGER I. ROSS, Troy, Ohio. Filed June 10, 1919. Serial No. 303,151. 1 Claim. (Cl. 91—14.5.)

The combination of a frame, means for feeding a strip over the frame, means for moistening the strip, a cutter pivoted at one end at one side of the frame and extending across the frame between the feeding means and the moistening means, a rod slidably mounted on the opposite side of the casing and connected at its upper end to the free end of said cutter, yieldable means for holding said rod normally raised, a pin projecting laterally from said rod, a crank mounted upon the side of the frame, a tappet arm carried by said crank adapted to impinge



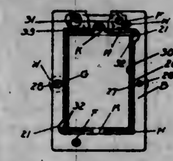
against said pin, and means driven by said crank for operating the feeding and moistening means.

1,392,359. TWO-STROKE-CYCLE ENGINE. CARL RUDQVIST, Munich, Germany. Filed Dec. 12, 1916. Serial No. 136,582. 6 Claims. (Cl. 123—53.)



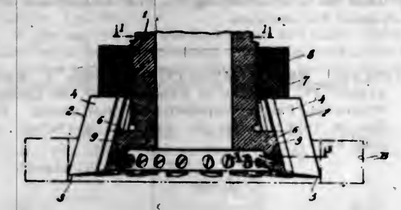
1. In a two cycle internal combustion engine, the combination with a casing having a compressed air chamber therein, of a pair of cyylinders within said casing the wall of each cylinder having openings through which compressed air from said chamber may flow, a combustion chamber common to both cylinders at one end thereof, a fuel admission passage communicating with one of said cylinders, an exhaust passage communicating with the other of said cylinders, a piston operable in each cylinder, and means for operating said pistons whereby the openings in the cylinder communicating with the admission passage are first uncovered to the flow of compressed air from the compressed air chamber to scavenge such chamber and thereafter the second piston is moved to uncover the openings therein and the exhaust passage whereby compressed air will flow through said last named openings to cause a suction action in both cylinders and complete the scavenging operation.

1,392,360. APPARATUS FOR FACILITATING THE CUTTING OF RECESSES IN WALLS. EPHRAIM FRANK SHARLE, Lawrence, Mass. Filed Oct. 23, 1920. Serial No. 419,111. 2 Claims. (Cl. 33—180.)



1. A templet for an electrical box having ears with screw passages therethrough, which has an opening through which said box except the ears can pass, and screw holes which register with said screw passages.

1,392,361. GEAR-CUTTER. WILLARD T. SEARS, Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 17, 1919. Serial No. 283,170. 10 Claims. (Cl. 90—9.)



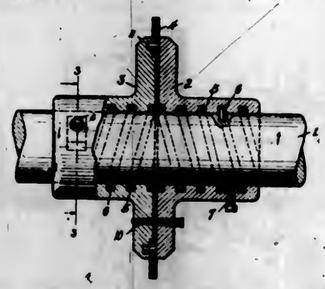
1. A circular gear cutter of the axially reciprocating and tooth-curve-generating type, comprising a circular series of radially extending adjustable cutting teeth having contours of gear tooth form on their end faces.

1,392,362. TYPEWRITING-MACHINE. GEORGE A. SEIB, Ilion, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Nov. 6, 1920. Serial No. 422,329. 8 Claims. (Cl. 197—129.)



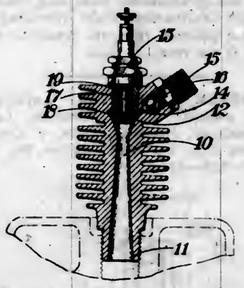
1. In a typewriting machine, the combination of a split platen, an internal clutch between the sections thereof, a finger button external of said platen for controlling said clutch, means for line spacing said split platen, and means independent of said internal clutch for turning the sections of said platen independently of each other to any desired extent.

1,392,363. CLAMPING MEANS FOR ROTARY MEMBERS. EDWIN P. SHANNON, Lockland, Ohio. Filed Jan. 24, 1920. Serial No. 353,774. 2 Claims. (Cl. 287—52.)



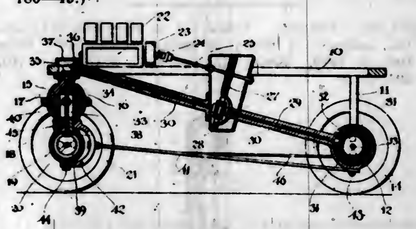
1. In combination, a shaft, a pair of collars mounted on the shaft and having their adjacent ends adapted for clamping a tool therebetween, each collar having its bore of a size for rotatably fitting the shaft and provided with an internal thread with the thread of one collar reverse to that of the other, means fixed to the shaft and entering the threads of the respective collars to cause the collars to have axial opposed movements when rotated in the same direction on the shaft, and means for locking the collars in adjusted relation to the shaft.

1,392,364. IGNITION DEVICE FOR INTERNAL-COMBUSTION ENGINES. FREDERICK ARTHUR SMITH, Brasted, England. Filed Apr. 2, 1921. Serial No. 458,059. 4 Claims. (Cl. 123—169.)



1. An ignition device for internal-combustion engines comprising an ignition chamber, an electric igniter therein, an inlet at the inner end of the chamber for an auxiliary ignition charge of explosive mixture, and a flame nozzle at the outer end of the chamber which nozzle extends toward the main combustion chamber of the engine, said ignition chamber being so constructed and shaped as to form a space for accommodating the igniter points, which space is of regular tubular formation without an abrupt expansion immediately behind the outlet orifice, and it and the remainder of the ignition chamber are of such proportions and shape, and so situated, relatively to each other and to the main combustion chamber of the engine, that, during compression, only the auxiliary ignition charge is compressed stratified around the igniter points, no turbulence being set up during such compression to displace the auxiliary ignition charge clear from the igniter points.

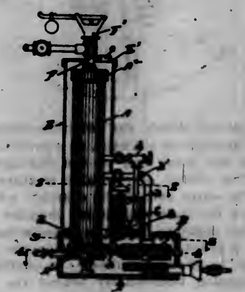
1,392,365. FOUR-WHEEL DRIVE. ROY DALTON SMITH and ALFRED CHRISTOPHERSON, Mohler, Idaho. Filed June 11, 1920. Serial No. 388,136. 1 Claim. (Cl. 180—49.)



The combination with an automobile frame and a motor mounted on the frame; of a rear axle housing connected to the frame; an axle rotatable therein and having drive wheels fixed thereto, a longitudinal shaft geared to the rear axle, a housing inclosing portions of the engine shaft and the longitudinal shaft, gearing mounted on said shafts within the housing, a front axle housing, an axle journaled therein and having drive wheels fixed to the ends thereof, a driving and turning gear for the front axle including a relatively large ball member provided with an attaching plate secured to the front of the frame and having a hollowed out portion, a socket member receiving said ball at the bottom and provided with a reduced sleeve portion joined with the front axle housing, a shaft journaled through said sleeve portion and ball member and provided with a knuckle joint in the center thereof, said shaft being formed in two sections and having geared connection with the front axle at its lower end, a geared connection between the upper end of

said vertical shaft and the forward end of the longitudinal shaft, a truss rod connecting the front and rear axle housings and having a fork member provided with a bearing portion for the reduced sleeve of the large socket member, and braces extending from said truss rod to the rear axle, said longitudinal shaft extending in a rearwardly inclined position from the frame at the front to the rear axle at the rear.

1,392,366. STEAM-GENERATOR. ARTHUR E. SNOW, Erie, Pa., assignor to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Filed June 14, 1918. Serial No. 240,089. 1 Claim. (Cl. 122—115.)



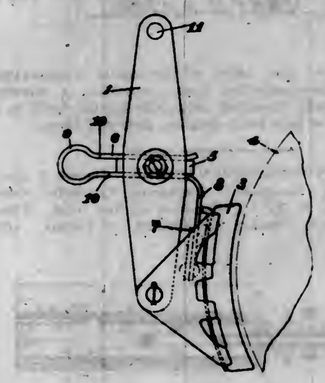
In a device of the class described, a horizontally elongated casing, a vertically elongated casing in communication therewith, a primary water heating unit within one end of said horizontally elongated casing, a secondary water and steam member within said vertical casing extending downwardly into said horizontally elongated casing in circulatory communication with said primary water unit, a feed-water tank mounted on said horizontally elongated casing over said primary water unit and contacting with said vertical casing, and means to supply heat within said horizontally elongated casing, substantially as set forth.

1,392,367. WHEEL. FREDERICK S. STAFFORD, Chicago, Ill., assignor to Henry G. Saal, Chicago, Ill. Filed Dec. 5, 1919. Serial No. 342,644. 2 Claims. (Cl. 301—37.)



2. A wheel having a tire, spokes, and a hub which has a flange and a circular clamping plate between which hub elements the inner ends of the wheel spokes are disposed, and bolts that clamp said hub elements against the spokes; in combination with a disk substantially covering a face portion of the wheel that is surrounded by the tire and also covering ends of the aforesaid bolts; and additional bolts for clamping the disk against one of the aforesaid hub elements.

1,392,368. BRAKE MECHANISM. JOHN F. STREIB, Avalon, Pa., assignor to Pressed Steel Car Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Feb. 8, 1921. Serial No. 443,374. 4 Claims. (Cl. 188—212.)



4. The combination with a brake lever and a brake beam, of a brake head pivotally connected with said lever below said beam and means connected with said head and slidably mounted on said beam adapted to maintain said head in its proper position relative to the car wheel.

1,392,369. SHAVING-BRUSH. CHARLES F. STOEWSAND, Chicago, Ill., assignor to Walter Kargus, Louis Cleppe, and Charles F. Stoewsand, Chicago, Ill., a Copartnership. Filed Oct. 22, 1919. Serial No. 332,448. 5 Claims. (Cl. 15—50.)

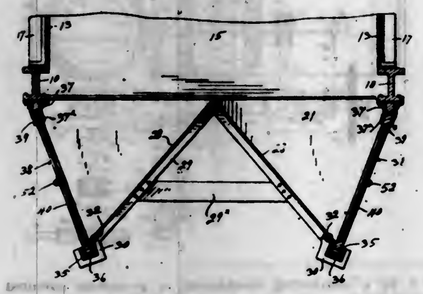


1. A shaving brush comprising a liquid container; a tubular member communicating with said container and leading to the bristles of said brush; a valve at each end of said tubular member; and means for forcing liquid in said container through said tubular member to the bristles of said brush, substantially as described.

1,392,370. METHOD FOR THE PURIFICATION OF HYDROCARBONS. JOSEPH MAURICE THOMSEN, New York, N. Y., and CHARLES S. BENJAMIN, East Orange, N. J., assignors to Andrew J. Doremus, West New Brighton, N. Y., and Howard G. Turner, Paterson, N. J. Filed June 4, 1920. Serial No. 386,632. 8 Claims. (Cl. 96—26.)

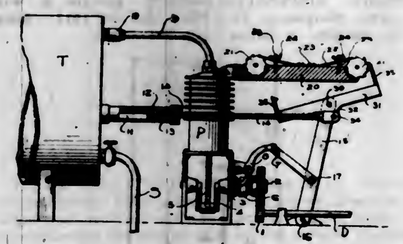
1. A process for the purification of non-liquid hydrocarbons which comprises treating the impure hydrocarbons with benzol containing sulfur-dioxid and separating the non-liquid hydrocarbons from the liquid impurities.

1,392,371. HOPPER-CAR. MARK A. VILLIAMO, New Castle, Pa. Filed Nov. 3, 1920. Serial No. 421,522. 13 Claims. (Cl. 105—255.)



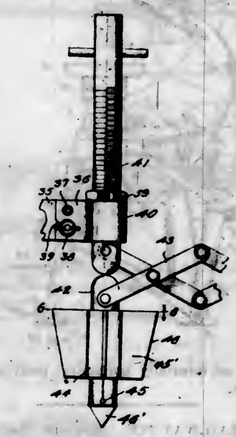
1. In a hopper car, a transverse partition extending across the car approximately centrally thereof, a longitudinally extending inverted V-shaped partition arranged adjacent the bottom of the car and secured to said transverse partition, inverted V-shaped braces engaging beneath said longitudinally extending partition, side sills for said car, hook portions formed on said braces at the lower ends thereof and directed toward said side sills, tracks mounted in said braces, guides secured to said side sills and doors slidably mounted in said tracks and having the upper edges thereof disposed within the guides secured to said side sills.

1,392,372. AUTOMATIC PUMP CONTROL. JERRY T. VINE, Seattle, Wash., assignor of one-half to Thomas Conroy, Seattle, Wash. Filed May 25, 1920. Serial No. 384,058. 4 Claims. (Cl. 103—87.)



1. The combination with a power driven pump, a power control lever, a tank to which the pump delivers, a cylinder projecting from the tank, a piston in the cylinder moved in one direction by accumulated energy, and a spring moving the piston in the other direction; of a rocker pivoted to said lever and having latches at its opposite ends for holding the lever at either extreme position, and connections between said piston and rocker whereby movement of the piston will first turn the rocker to unlatch it and then swing the lever to its opposite extreme.

1,392,373. VALVE-LIFTING DEVICE. JOSEPH A. WAINWRIGHT, Brooklyn, N. Y. Filed Nov. 15, 1920. Serial No. 424,128. 11 Claims. (Cl. 29—86.5.)



1. A valve spring lifting tool comprising a body formed of a lazy-tong structure, valve spring lifting jaws pivotally mounted upon the outer end of said body, and overhanging means carried by the side edges of said body for engaging said jaws and limiting the swinging movement thereof in one direction.

1,392,374. HAIRPIN. FRED WALKER, Philadelphia, Pa. Filed Mar. 20, 1920. Serial No. 367,318. 1 Claim. (Cl. 132—52.)

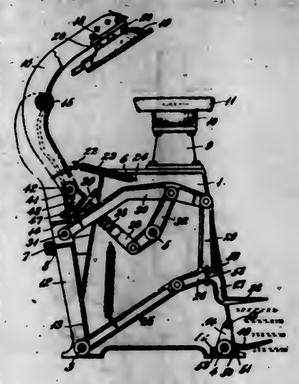


As an article of manufacture, a hair pin, comprising a single piece of material bent upon itself to form spaced parallel central tangs and having their ends bent outward upon themselves to form outer tangs spaced from the central tangs, said outer tangs being approximately parallel with the central tangs, said central tangs having corrugations lying in one direction and said outer tangs having corrugations lying at right angles to the first mentioned corrugations.

1,392,375. GARMENT-PRESS. CHARLES E. WARHAM, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Filed July 10, 1918. Serial No. 244,252. Renewed Mar. 19, 1921. Serial No. 453,713. 14 Claims. (Cl. 68—9.)

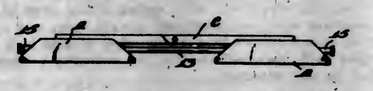
1. In a press, a frame, a buck mounted thereon, a swinging presser head support, a presser head carried thereby, a horizontally disposed treadle, and parallel link mecha-

nism between said treadle and said swinging support for manipulating the presser head and maintaining said



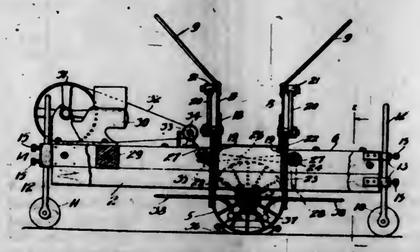
treadle in a substantially horizontal position throughout its movement.

1,392,376. RAILWAY-TIE. EDWARD WATERS, Capreal, Ontario, Canada. Filed Aug. 27, 1920. Serial No. 406,431. 1 Claim. (Cl. 238—53.)



A tie comprising a pair of chocks each formed like a frustum of a rectangular cone, means for securing the chocks in spaced relation, a false tie being provided formed with beveled shoulders on the bottom adapted to engage the inner beveled walls of the chocks.

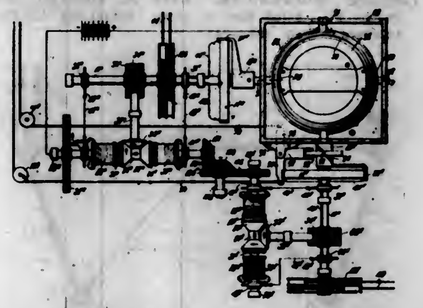
1,392,377. SUGAR-CANE CUTTER. MAX WERTHEIM, Pietermaritzburg, Natal, South Africa. Filed Oct. 1, 1919. Serial No. 327,815. 7 Claims. (Cl. 56—17.)



1. In a machine of the character described, the combination of a vehicle, a trough mounted on said vehicle, a horizontally disposed rotary knife at one end of said trough, a vertically disposed rotary knife at the opposite end of the trough, means carried by said vehicle for rotating said knives, a vertically movable carrier within said trough, and means for partially rotating said carrier during its vertical movement.

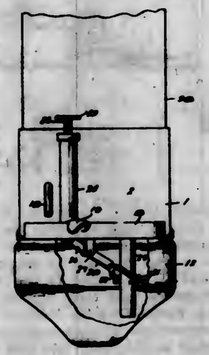
1,392,378. CONTROLLING MECHANISM. LOUIE E. WILLARD, Chula, Ark. Filed Nov. 6, 1916. Serial No. 129,832. 4 Claims. (Cl. 172—282.)

1. In a controlling mechanism, a gyroscope mounted for movement in two planes, a pair of controlling shafts having their axes disposed at relative right angles, a commutator carried by each controlling shaft, a pair of arms mounted for rotation and for engagement with each of the commutators, each arm being rotatable about an axis coincident with the axis of rotation of the correlated controlling shaft, means operatively connecting the gyroscope to the arms whereby movement of the gyroscope in one direction will rotate one arm and a movement of the gyroscope in another direction will operate the other arm, and means for driving the shaft, a reversing gear associated with each shaft, and electrically operable means controllable by movement of the arms and commutators to operate the reversing mechanism.



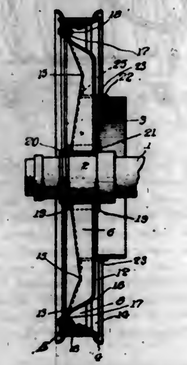
2. In a controlling mechanism, a gyroscope mounted for movement in two planes, a pair of controlling shafts mounted to dispose the axes thereof at relative right angles, a commutator carried by each controlling shaft, an arm movable adjacent each commutator for contact therewith each arm having an operative connection to the gyroscope, whereby a movement of the gyroscope in one plane will move one arm, and a movement of the gyroscope in another plane will move the other arm, a spirally grooved boss formed on one arm, a ring encircling said boss, a pin on said ring extending into the groove of the boss, means for reciprocating said ring to oscillate the arm, means for driving the shaft, a reversing gear associated with each shaft, and electrically operable means controllable by movement of the arms to operate one or the other of the reversing mechanisms, one of said shafts being operable through movement of the ring in the manner described.

1,392,379. DISPENSING DEVICE. EDWARD R. WILLIAMS, Sharpsburg, Pa. Filed Mar. 23, 1917. Serial No. 156,926. 9 Claims. (Cl. 221—102.)



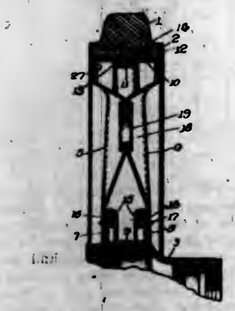
6. Liquid dispensing apparatus, comprising a hollow body having an opening in its bottom wall, a liquid holding vessel depending from said body, means supported by said body and extending through said opening for supplying liquid to said vessel, and a reciprocating member supported by said body and depending within said vessel for discharging liquid over the edge thereof.

1,392,380. PRESSED STEEL WHEEL. WILLIAM ERASTUS WILLIAMS, Chicago, Ill. Filed Sept. 6, 1919. Serial No. 322,168. 9 Claims. (Cl. 301—64.)



1. In a wheel of the class described, a disk having tapering corrugations extending radially deeper at the hub and shallower at the rim the back faces of the corrugations on the inside of the wheel adjacent to the hub being in a plane and the peripheral zone being dished outwardly from that plane.

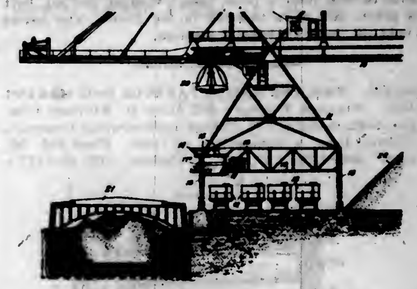
1,392,381. FLANGED DISK PRESSED STEEL WHEEL. WILLIAM ERASTUS WILLIAMS, Chicago, Ill. Filed Sept. 13, 1919. Serial No. 323,524. 10 Claims. (Cl. 301—64.)



1. In a wheel of the class described, a hub having a circumferential flange parallel to the general plane of the wheel and provided with an annular lateral groove of approximately rectangular cross section adapted to receive the inwardly bent marginal portion of a wheel disk, and a ring forced into and laterally filling the remaining space between the opposite walls of the groove.

1,392,382. APPARATUS FOR HANDLING COAL, ORE, AND THE LIKE. CHARLES S. WILLIAMSON, Chicago, Ill. Filed Aug. 9, 1917. Serial No. 185,402. 6 Claims. (Cl. 214—2.)

1. In a plant of the class described, a bridge, tracks supporting said bridge, a receiving hopper fixed with relation to the bridge, a lifting bucket, traveling relatively to the bridge and hopper, a weighing lorry, traveling transversely to the tracks, readily controllable means for



gradually feeding the products from the receiving hopper to the weighing lorry, and means for discharging from the weighing lorry.

1,392,383. STRAINER. WALTER BRUCE WILLS, Baltimore, Md. Filed Oct. 26, 1920. Serial No. 419,663. 2 Claims. (Cl. 53—3.)



1. The combination with a strainer having a rim portion; of a wire ring encircling said rim portion and provided with a handle, said ring having a pair of outward bends which are spaced and provided with a downturned connecting portion at their outer ends, said connecting portion forming a hook and being pliable to permit bending in a direction to draw the aforesaid outward bends together and thereby contract the ring.

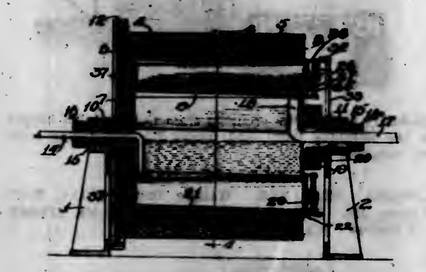
1,392,384. BROOM. STEPHEN G. WILSON, Philadelphia, Pa. Filed Apr. 24, 1919. Serial No. 292,253. 14 Claims. (Cl. 306—15.)



1. In a broom, a box with slots, a butt therein with its lower portion inserted in the body of the broom and

its upper end extended beyond the said broom body and disposed in said box, a reinforcing plate in the butt to engage in said slots, a pivot passed through the box, butt and plate, said plate inserted in the handle, and means to hold the parts in angular position.

1,392,385. PROCESS AND APPARATUS FOR MAKING ICE. WILLIAM WISHART and JOHN O. WISHART, Clinton, Iowa, assignors to Clinton Refrigerating Company, Clinton, Iowa, a Corporation of Iowa. Filed Feb. 26, 1918. Serial No. 219,212. 11 Claims. (Cl. 62—172.)



1. The process of making ice which consists in partially filling a vaporizing receptacle with a volatile refrigerant liquid, placing the water to be frozen in a rotatable compartment in the receptacle, replenishing the volatile refrigerant liquid in the receptacle and exhausting the vapor therefrom, rotating the compartment so that it is periodically immersed in and withdrawn from the liquid in the receptacle, and permitting the escape of air from the compartment as it is rotated to relieve the pressure therein.

1,392,386. SHOCK-ABSORBER. ARTHUR GEORGE WITT, Hamilton, Ontario, Canada. Filed Dec. 11, 1920. Serial No. 429,937. 5 Claims. (Cl. 267—34.)



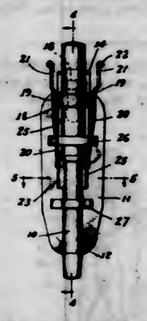
2. A shock absorber, comprising inner and outer cylindrical members adapted to be secured to the opposing portions of a vehicle and telescoping one within the other, a ball cushion within the outer telescoping member at each end thereof, a coil spring separating the ball cushions and a cupped bearing plate situated between each end of the coil spring and the adjacent ball cushion, the ends of the coil spring engaging flanges on the cupped bearing plates.

1,392,387. TRUCK. A. J. WOOD, Grand Rapids, Mich., assignor to Bennett Injector Company, Muskegon, Mich., a Corporation of Delaware. Filed Feb. 24, 1920. Serial No. 360,865. 5 Claims. (Cl. 280—35.)



4. In a truck, a front truck member including a vertically positioned member of wood, a ledge attached to and extending back of said vertical member at the lower part thereof, a rear truck member including a similar vertical member of wood, a ledge connected thereto and extending forwardly from the lower portion thereof, casters attached one at each end of each truck member, rods passing loosely through the truck members and disposed in spaced apart relation, and means on the rods for drawing the truck members toward each other and against a barrel or similar container disposed between them, substantially as described.

1,392,388. PEN OR PENCIL HOLDER. JOSEPH AMATO, Ossining, N. Y. Filed Apr. 13, 1921. Serial No. 461,130. 7 Claims. (Cl. 24—11.)

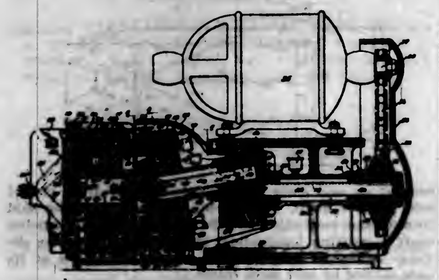


5. As a new article of manufacture, a pen or pencil holder comprising in combination, a base, a clasp pivotedly secured to the back of said base, an annular band secured at right angles to said base, a pair of clamping members pivotedly secured to said band and parallel to said base, said clamping members being provided at their upper ends with off-set extensions and at their lower ends with semi-cylindrical shaped jaws adapted to grip an article placed thereinbetween, a spring adapted to keep said clamp-members in engaged position, a strap secured at right angle to said base, and another strap secured to said base intermediate said annular band and said former strap adapted to limit the outward movements of said clamping members.

1,392,389. MECHANICAL MOVEMENT. LARS ANDERSON, Chicago, Ill. Filed Sept. 1, 1920. Serial No. 407,510. 10 Claims. (Cl. 108—77.)

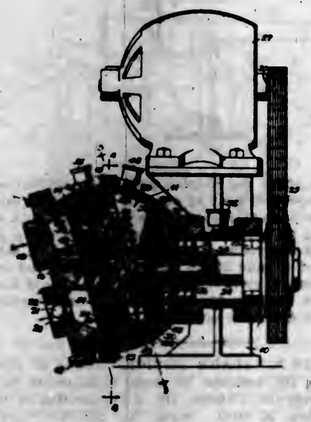
1. The combination of a rotatable shaft, a crank rotatable by the shaft, an inclined shaft connected by one end with the crank and to one side of the axis of rotation of the first recited shaft, the axis of the free extremity of the inclined shaft coinciding with the axis

of the first recited shaft, a bearing for the said free extremity of the inclined shaft, a wabbler element mounted upon said inclined shaft, the internal diameter of the said element being somewhat greater than the external diameter of the shaft, roller bearings interposed between



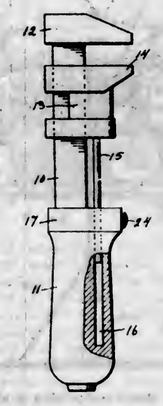
the said element and the inclined shaft, a plurality of pump cylinders, pistons in the cylinders, operative connections between the said wabbler element and the respective pistons, means exterior of the cylinders and operatively connected with the first recited shaft to rotate the latter to actuate the wabbler element.

1,392,390. PUMP. LARS ANDERSON, Chicago, Ill. Filed Oct. 21, 1920. Serial No. 418,363. 14 Claims. (Cl. 230—30.)



1. A pump of the character described embodying a chamber, a piston element bodily rotatable in the chamber, a fulcrum for the said element intermediate its ends and by means of which fulcrum the piston element is adapted for an oscillating movement in a plane transverse to the plane of its bodily rotation, one wall of said chamber being inclined transverse to the axis of rotation of the said piston element, means for rotating the said element, and means for maintaining one edge of the piston element in contact with the said inclined wall, whereby the piston element will be oscillated upon its fulcrum during such rotation, the last recited means embodying the fulcrum, said fulcrum being movable in a plane transverse to the plane of oscillation of the piston element.

1,392,391. QUICK-ADJUSTABLE MONKEY-WRENCH. FRANK E. BABTS, Pittsburgh, Pa. Filed Oct. 2, 1920. Serial No. 414,310. 3 Claims. (Cl. 81—152.)



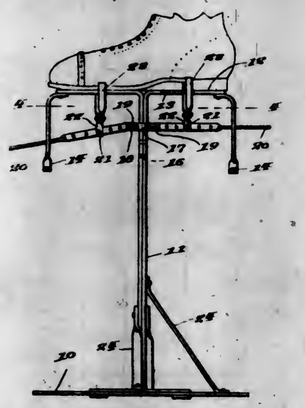
3. A wrench of the character described including a shank having a handle portion and a fixed jaw at its end remote from the handle portion, a movable jaw slidably mounted on the shank between the fixed jaw and the handle portion, a rod attached to the movable jaw and extending parallel to the shank, the handle being provided with a longitudinally extending bore through which said rod travels at all times, a housing having an opening through which the shank passes and having a slot at its other end, that face of the housing confronting the handle being open and being abutted against the adjacent end of the handle, the shank having a shoulder engaging over the outer face of the housing and holding it in place, and a locking device mounted within the housing and adapted to have locking engagement with said rod, the extremity of the locking device having a finger piece extending out through the slot in the housing whereby it may be manipulated.

1,392,392. AUTOMATIC CAR-REPLACER. JOSIAH W. BODIE, Effingham, S. C. Filed Mar. 18, 1920. Serial No. 366,826. 1 Claim. (Cl. 246—423.)



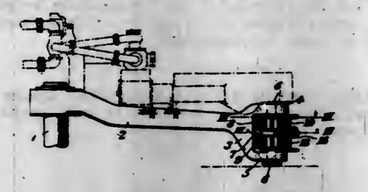
A rerailing device for railways comprising a pair of blocks which are trapezoidal in plan and each of which has a vertical longitudinal rib on its upper face adjacent one of the sides thereof and a longitudinal ledge adjacent the other side, the wider end of one block being beveled longitudinally, the other end of the ledge being beveled, and the rib being tapered toward the last-named end of the block, the other block having the ledge inclined longitudinally from a point adjacent the longitudinal center to the wider end of the block, the rib tapering toward the wider end of the block and having its other end beveled to a line lying in the plane of the adjacent end of the ledge.

1,392,393. SHOE-HOLDING STAND. JOHN J. BRENTANO, St. Paul, Oreg. Filed Mar. 28, 1921. Serial No. 456,214. 1 Claim. (Cl. 15—58.)



A shoe blacking stand comprising a standard having a foot rest on its upper end, a vertically adjustable collar on the standard, levers pivotally carried by the collar and extending toward the ends of the foot rest, depending loops carried by the ends of the foot rest, one leg of each loop having an inner vertical series of notches for engagement by the levers, and pivotally connected shoe sole gripping arms carried by the levers and diverging upwardly at the sides of the foot rest, said foot rest having notches in the edge portions of one end thereof to receive one set of gripping arms to maintain the gripping arms against movement longitudinally of the foot rest.

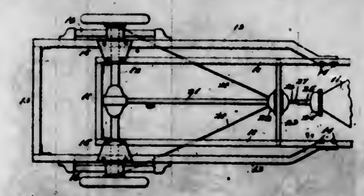
1,392,394. STEERING-GEAR FOR SHIPS. HARRY BROUSSEAU, Bath, Me. Filed Oct. 23, 1920. Serial No. 418,932. 4 Cairns. (Cl. 114—159.)



1. In a steering gear for ships, the combination of a tiller, a drive shaft journaled on the tiller, a pair of pinions fixed on said shaft with their teeth in alinement, a pair of arcuate racks having teeth meshing with the teeth of the pinions, means for holding one rack in fixed position, and means for adjusting the other rack endwise and positively holding it in its adjusted position, one rack being relatively short and located substantially centrally of the other rack.

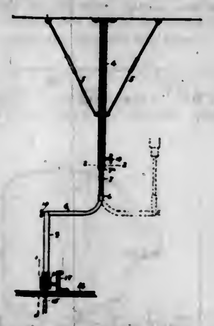
1,392,395. EXTENDIBLE TRUCK CONSTRUCTION. HOWARD R. BRUAN, Chicago, Ill. Filed Feb. 2, 1920. Serial No. 355,617. 4 Claims. (Cl. 180—1.)

1. As a means for re-building a truck having a rear axle, differential gearing on said axle, a transmission mechanism, a propeller shaft rigidly connecting said differential gearing and said transmission mechanism longitudinally, a main frame and a cross spring between said frame and said axle, in combination with said rear axle, differential gearing and propeller shaft, transmission mechanism, and said main frame, an extension frame, rigid connections between said frames, side springs between said extension frame and said axle engaging at their ends fixed pivot rods carried by said extension frame, a cross



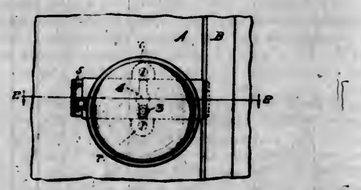
member on said main frame supporting the front end of said propeller shaft, and driving devices connecting said transmission mechanism and the front end of said propeller shaft permitting longitudinal slip in said connecting devices, said cross member having sliding supports at its ends carried by said main frame.

1,392,396. CIRCULAR-SAW GUARD. JOSEPH H. BURKE, Portland, Me. Filed Nov. 10, 1919. Serial No. 337,614. 5 Claims. (Cl. 143—159.)



1. In a guard for circular saws, the combination of a tubular dependent post at one side of the saw, said post having an angular socket at its lower end, an L-shaped rod having its upper end fitting said socket and a portion below said end reduced in size and adapted to rotate in said socket, a hand clamp for clamping said rod in place in said post, a vertical rod on the end of said L-shaped rod and a hood on the lower end of said vertical rod adapted to cover the saw.

1,392,397. ALARM DEVICE. JAMES M. BUTCHER, Chicago, Ill., assignor, by mesne assignments, to Sentinel Alarm Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 2, 1919. Serial No. 269,212. 9 Claims. (Cl. 116—86.)



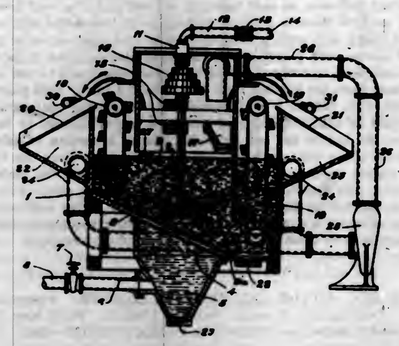
1. In an alarm device, an alarm, a mounting adapted to be applied to the face of a closure to be guarded, and a controlling member longitudinally slidable on said mounting and having its ends deflected, respectively, for engagement with the jamb or frame of said closure and with the alarm; said alarm being mounted in the path of movement of said controlling member.

1,392,398. TIE-PLATE AND RAIL-FASTENER. WILLIAM A. BUTLER, Portsmouth, Va., assignor of one-half to William J. Beale, Norfolk, Va. Filed May 23, 1921. Serial No. 471,902. 3 Claims. (Cl. 238—304.)



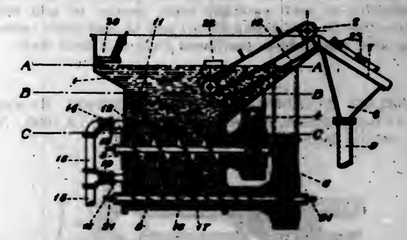
3. A tie plate comprising a flat substantially rectangular body having guide ways struck up from the lower surface thereof, the guide ways having inwardly extending slots formed therein, the plate having bolt receiving openings formed therein adjacent to the corners thereof, and teeth struck up in said guide ways forming corrugations in the upper and lower surfaces of the plate.

1,392,399. METHOD AND APPARATUS FOR WASHING COAL AND CONCENTRATING ORES AND MINERALS. THOMAS M. CHANCE, Philadelphia, Pa. Filed Aug. 27, 1917. Serial No. 188,430. 10 Claims. (Cl. 83—85.)



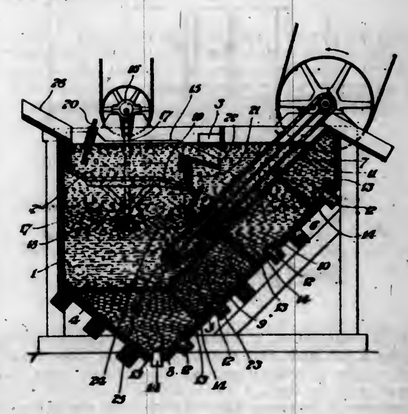
1. A method of separating materials of different specific gravities which consists in subjecting said materials to the separating action of a fluid mass consisting of an agitated mixture of liquid and comminuted insoluble solid material heavier than the liquid; in permitting material of relatively low specific gravity to rise to and float in the upper portion of said fluid mass; in permitting the material of relatively high specific gravity to sink to the lower portion of said fluid mass; in removing the materials thus separated from said fluid mass; in transporting the material of high specific gravity thus removed through a body of liquid superimposed upon said fluid mass, said liquid being of a specific gravity not greater than that of the liquid constituent of said fluid mass, in causing the contact of said body of liquid with said separated materials to remove a portion of the comminuted solid matter of said fluid mass from said materials; and in permitting the action of said body of liquid to assist the return of said solid matter to said fluid mass, whereby comminuted solid matter of said fluid mass mixed with said separated material is washed therefrom.

1,392,400. METHOD FOR WASHING COAL AND CONCENTRATING ORES AND MINERALS. THOMAS M. CHANCE, Philadelphia, Pa. Filed Aug. 27, 1917. Serial No. 188,431. 6 Claims. (Cl. 83—85.)



1. A method of separating materials by means of differences in their specific gravities which consists in immersing said materials in a compound fluid mass composed of liquid and particles of solid matter heavier than the liquid and maintained by agitation in zones of relatively different specific gravities; in permitting the materials of relatively low specific gravity to rise to and float in the upper portion of the low density zones of said fluid mass; in permitting the materials of relatively higher specific gravity to rise to and float in the upper portion of the high density zones of the fluid mass; in permitting the materials of highest specific gravity to sink to the lower portion of the highest density zone; in separately removing the materials thus separated from said compound fluid mass and in transporting the materials of low specific gravity thus removed through a body of liquid superimposed upon said compound fluid mass; and thereby removing some of the comminuted solid matter of said mass mixed with said separated materials.

1,392,401. METHOD AND APPARATUS FOR CLASSIFYING MATERIALS. HENRY M. CHANCE, Philadelphia, Pa., and THOMAS M. CHANCE, Baltimore, Md. Filed July 8, 1918. Serial No. 243,911. 10 Claims. (Cl. 83—85.)



1. The method of separating materials of unlike physical characteristics which consists in submerging said materials in a continuously agitated fluid mass composed of a mixture of liquid and comminuted granular solids, said materials being of greater and said liquid of less specific gravity than said fluid mass and said solids being of such nature as to remain suspended in a hydraulic current

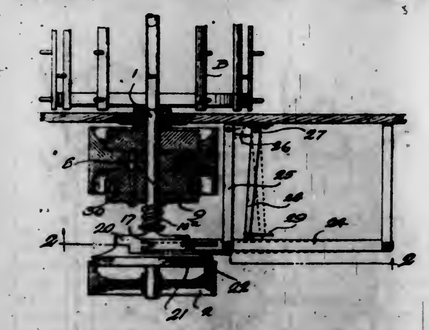
that will not support the materials to be separated by differences in falling velocity; in causing said materials to fall in said fluid mass, whereby the materials of relatively high falling velocity position themselves below those of relatively low falling velocity, the differences in falling velocities of said materials being greater in said fluid mass than in said liquid alone; and in separately removing said materials so positioned from said fluid mass.

1,392,402. BUILDING-WALL CONSTRUCTION. RICHARD CLARK COTTMAN, Merced, Calif. Filed July 13, 1920. Serial No. 395,887. 1 Claim. (Cl. 72—30.)



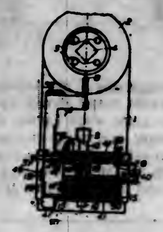
A wall construction comprising a plurality of separately built up units lying in spaced relation to each other and each comprising a body portion of cementitious material having reinforcing elements embedded therein consisting of a tubular column of wire mesh and two spaced wire mesh sections with an open space between them, one end of each of said wire mesh sections being attached to the tubular column of wire mesh, eyes projecting centrally from the ends of said units the shanks of said eyes extending to and entering the spaces between the two spaced wire mesh sections, said eyes being adapted to be brought into overlapping relation with each other, vertical pins adapted to traverse said eyes to unite the sections and joint filling material between the adjacent ends of the units, the ends of said units being vertically recessed for the reception of said joint filling material and said joint filling material surrounding and inclosing the eyes and the rods.

1,392,403. CLUTCH FOR GRAIN-SEPARATORS. JACOB R. CROGAN, Shaunavon, Saskatchewan, Canada. Filed Oct. 5, 1918. Serial No. 257,021. 4 Claims. (Cl. 192—18.)



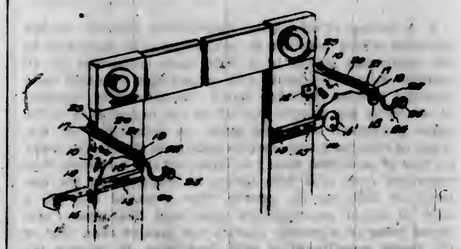
4. In combination, a rotatable shaft, a pulley thereon having a web made with recesses at opposite sides thereof and a series of conical openings therethrough being concentric with the shaft, a clutch element fixed to the shaft at one side of the pulley web and situated in one of the recesses, a shiftable clutch element situated at the opposite side of the web and loose on the shaft, said shiftable clutch element adapted to slide in the recess at the other side of the web, a concentric series of conical pins projecting from said shiftable clutch element slidably entering the conical openings in said web, said first mentioned fixed clutch element having notches to receive the reduced ends of said tapered pins, a ring carried by said shiftable clutch element and adapted to move relatively thereto, said ring provided with pins projecting therefrom, a pair of arms fixedly engaging with said pins, a friction brake element made in one piece with said arms and provided with pins extending therefrom, a coil spring wound about said shaft and bearing against said shiftable clutch element for urging the same into coupling position, a second pulley fixed on said shaft and having a braking surface arranged to receive the friction brake element, a forked lever engaging the pins on said braking element, and manual means for shifting said forked lever.

1,392,404. KEYHOLE-GUARD, LAGAR R. CULVER, Portland, Oreg. Filed Feb. 15, 1921. Serial No. 445,079. 2 Claims. (Cl. 70—8.)



1. In an auxiliary lock for a door the combination with a door-lock having a knob spindle and a key hole, of a plate having a circular opening cut in one end portion, and slots in the other end portion; bearing disks having a square hole centrally therein and radially slotted and mounted for partial rotation in said opening of said plate; a bolt having an arm thereon adapted to engage in the radial slot of said disks, and with a ratchet rack in one edge; a housing slidable on said plate; a bolt engaging plate carried in said housing and movable longitudinally for engagement with or release from the ratchet rack of said bolt a lug on said plate adapted to engage a contiguous plate; a release plate also carried in said housing and having a recess therein to receive the lug on the bolt engaging plate; a portion of said release plate bent parallel thereto and having slots cut in its edges; another portion bent at right angles to the main portion and adapted to engage lever tumblers; lever tumblers carried in said housing having a slot in the end portion of each; a spring on each of said lever tumblers; and a key to move them against the tension of said springs.

1,392,405. SHADE AND CURTAIN HANGER. STEPHEN O. DOUGHERTY, Toronto, Ontario, Canada. Filed May 7, 1919. Serial No. 295,268. 2 Claims. (Cl. 156—24.)



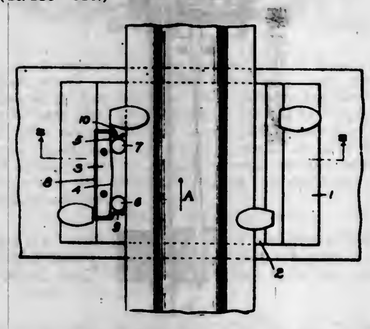
1. A device of the character described including a bracket body formed at its inner margin for receiving fastening devices therethrough and having its inner margin slit from the inner edge of the body to define a laterally directed stop flange lying in advance of the rear edge of the bracket body.

1,392,406. DUSTPAN. WILFRED DUPUS, Worcester, Mass. Filed Feb. 17, 1921. Serial No. 445,682. 3 Claims. (Cl. 65—20.)



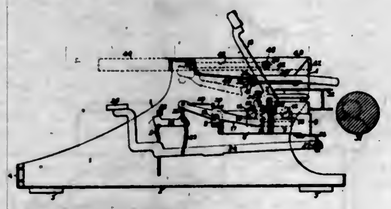
1. A device as described consisting of a dust pan having its front end open, a cover plate hingedly mounted upon said dust pan so as to normally close said front open end, a substantially U-shaped member connected pivotally at its upper end to said cover plate, and having its cross-rod projecting below and out of contact with the bottom of said pan, the side arms of said U-shaped member straddling said dust pan, and guides for said side arms upon the sides of said pan, said cross-rod adapted to be moved upwardly in order to cause said cover plate to be thrust to open position.

1,392,407. RAIL-ANCHOR. ROBERT FARIES, Pittsburgh, Pa. Filed Dec. 9, 1919. Serial No. 343,587. 3 Claims. (Cl. 238—310.)



1. In a rail anchor, a vertical, rail engaging ridge, an inclined ridge spaced therefrom, a roller adapted to contact with said inclined ridge and the side of a rail positioned between said ridges, and means for maintaining contact of said roller with said inclined ridge and the rail.

1,392,408. TYPEWRITING-MACHINE. JACOB FELBEL, New York, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Sept. 22, 1919. Serial No. 325,390. 15 Claims. (Cl. 197—186.)



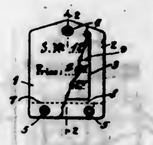
1. In a typewriting machine, the combination of a set of type bars pivoted to the fixed framework of the machine, means for elevating and depressing said type bars so as to expand and compact the machine, and a fixed guide for said means.

1,392,409. CIGAR-CARRIER. GEORGE R. FULLERWIDER, Fairfield, Mont. Filed Nov. 6, 1919. Serial No. 336,097. 2 Claims. (Cl. 131—51.)



1. A cigar holder for Fedora hats and the like, consisting of a thin piece of sheet metal centrally folded upon itself to form a slot adapted to receive the inwardly creased portion of the crown of the hat, and oppositely disposed lateral extensions bent backwardly to form a cigar pocket on each side of said central fold.

1,392,410. TAG. THOMAS R. GAINES, Norwood, Ohio. Filed Nov. 13, 1917. Serial No. 201,726. 5 Claims. (Cl. 40—2.)



1. A marking tag comprising front and back sheets secured together to prevent access to the space between the sheets, and a detachable sheet secured in the space between said front and back sheets and inaccessible except by mutilation of the tag.

1,392,411. VALVE-STEM FOR THE VALVES OF COMPRESSION-COCKS AND THE LIKE. JOHN H. GAVIN, Chicago, Ill., assignor, by mesne assignments, to Wolff Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 19, 1919. Serial No. 298,041. 7 Claims. (Cl. 251—46.)

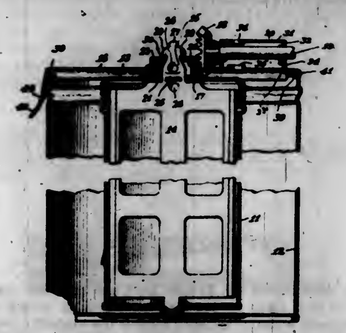


6. A valve for compression cocks and the like, comprising a rod forming the body of the stem, a thread carrying collar, and a valve member, said rod and said valve member extending into the collar, said rod being locked both against relative rotative and longitudinal movement with respect to the collar and said valve member being rotatably locked therein.

1,392,412. ICE-CREAM FREEZER. JOHN C. GIBBS, Lancaster, Pa. Filed Feb. 25, 1921. Serial No. 447,005. 10 Claims. (Cl. 259—53.)

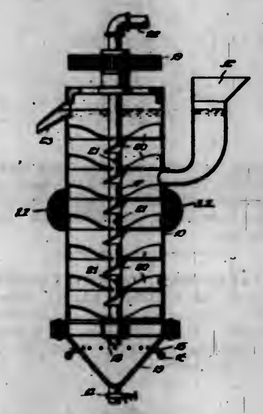
1. In an ice-cream freezer of the type set forth, a journal-bracket rigidly affixed to the bridge-plate and

having a top-wall and two vertical walls, the top-wall being provided with an opening serving as a shaft-



journal and said end-walls being provided with alined openings adapted to serve as shaft-journals, for the purpose set forth.

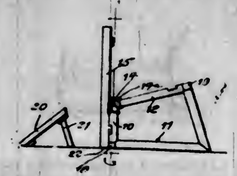
1,392,413. ORE-WASHER. ALEXANDER M. GOW, Duluth, Minn. Filed July 16, 1920. Serial No. 396,781. 4 Claims. (Cl. 83—71.)



1. In an ore washer for separating magnetic from non-magnetic particles or particles of different degrees of permeability, the combination of a vertically arranged tank, means for drawing to the inner surface of the tank magnetic particles of ore deposited in said tank, a vertically arranged rotatable shaft within said tank carrying means for removing the magnetic particles from the inner side of the tank and for causing the same to descend, and means for supplying water to the tank whereby the gangue is caused to flow upwardly and discharge from said tank.

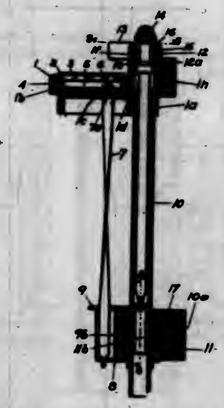
1,392,414. DAM CONSTRUCTION. ONESIME J. HALLEE, Chisholm, Me. Filed Apr. 16, 1921. Serial No. 462,059. 3 Claims. (Cl. 61—25.)

1. An automatic flood gate comprising a pair of spaced supports, each embodying a substantially vertical wall and a wall connected to and inclining upwardly from the same, a brace connecting the vertical walls of said supports at the lower ends thereof, a second brace connecting said inclined walls at the upper ends thereof, a pivot member secured at its ends to said supports at the juncture of the vertical and inclined walls thereof, and



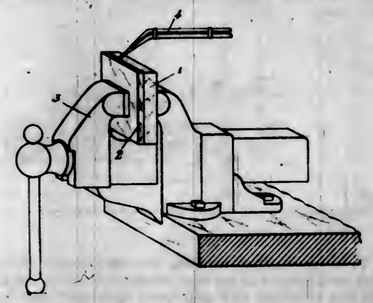
a flash board pivotally mounted upon said member and swinging to alternately engage said braces.

1,392,415. COMBINED FLUID-LEVEL INDICATOR AND RESERVE-VALVE. HERBERT HASTINGS, Brighton, N. Y. Filed Feb. 25, 1921. Serial No. 447,899. 9 Claims. (Cl. 158—46.5.)



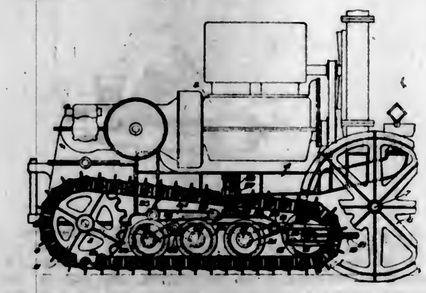
1. In combination a gage head, a fluid level indicator supported thereby, a tube supported in the head and projecting therefrom, said head being further provided with an outlet communicating with the tube.

1,392,416. METHOD OF PRODUCING COMPOUND METALS. JOHN CLIFTON HENDERSON, New York, N. Y., assignor to Driver-Harris Company, Harrison, N. J., a Corporation of New Jersey. Filed Dec. 27, 1919. Serial No. 347,829. 4 Claims. (Cl. 29—189.)



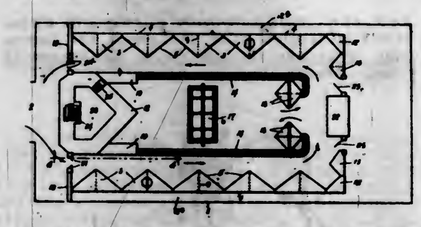
1. The method of uniting together a plurality of dissimilar metallic bodies having corresponding surfaces, which consists in bringing the corresponding surfaces into juxtaposition, locally welding exposed edges together by the application of heat so as to produce a metallic sealing weld, heating the bodies sufficiently to dilate their crystalline structures, and then subjecting them to a compacting action.

1,392,417. TRACTOR-TREAD. REX P. HICKS, Milwaukee, Wis., assignor to Hicks Tractor Company, Milwaukee, Wis., a Corporation of South Dakota. Filed May 12, 1919. Serial No. 296,343. 7 Claims. (Cl. 305—9.)



1. In a tractor, the combination, with a frame, of an endless tread, a drive wheel therefor, a link pivotally connected to said frame, a lever medially pivoted to the end of said link, levers medially pivoted to the ends of said lever, shafts mounted on the ends of said last named levers, tread engaging rollers mounted on said shafts, and spring means interposed between the first lever and said frame and exerting pressure against said rollers through said levers.

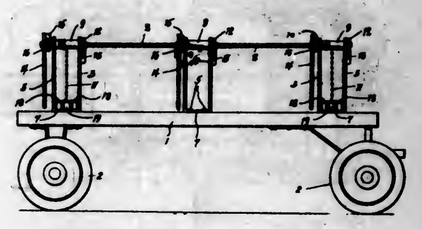
1,392,418. ARRANGEMENT AND CONSTRUCTION OF SELF-SERVICE-STORE FIXTURES. LESLIE A. HILL, Dallas, Tex. Filed Dec. 9, 1920. Serial No. 429,387. 2 Claims. (Cl. 211—8.)



1. The arrangement and construction of fixtures for a self-service store as described which consists of a plurality of triangular shaped shelving on each side and at one end of a building, a passageway between the back faces of the shelving and the store building walls, a storage space beyond one end of the shelving, a substantially V-shaped counter at the front of the store and between the shelving, a centrally inclosed space in the counter, railings for a sliding receptacle, and a double triangular unit at each end of the receptacle railings, said railings spaced apart and an entrance at their lower ends between the double triangular units, an entrance and an exit at opposite sides of the V-shaped counter and private passageways leading into the storage space.

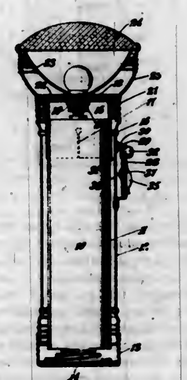
1,392,419. UNLOADING DEVICE. WILLIAM R. JONES, Marlin, Tex. Filed May 10, 1920. Serial No. 380,037. 3 Claims. (Cl. 298—18.)

1. In a device of the character described, a wheeled support, a frame mounted thereon, said frame comprising upright and horizontal arms, a shaft journaled in the upright arms, a lever arm and ratchet wheel at each end and intermediate the frame, a pair of lateral arms pivoted to one side of the frame at each end thereof, a second



arm intermediate the lateral arms and pivoted to the inner ends of the lateral arms and means for raising and lowering the arms and locking same in a horizontal position.

1,392,420. PORTABLE ELECTRIC LIGHT. HARRY M. KORETZKY, New York, N. Y. Filed Mar. 10, 1920. Serial No. 364,635. 5 Claims. (Cl. 240—8.5.)

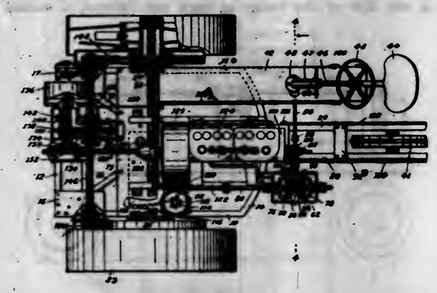


1. A portable electric light comprising an external battery-containing casing, a lamp bulb carried thereby, a removable contact plate adapted to be slipped into position between the casing and battery, said contact plate being connected electrically with the outer terminal of the lamp bulb and being normally insulated from all exterior metal parts of the device, and means on said casing adapted to close circuit through the battery and lamp by contact with said removable contact plate.

1,392,421. TRACTION-ENGINE. MARTIN H. LANG, Minneapolis, Minn., assignor to Lang Tractor Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Dec. 9, 1918. Serial No. 265,838. 2 Claims. (Cl. 180—27.)

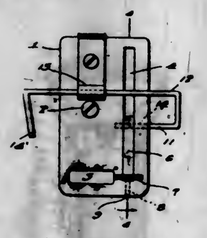
1. A traction engine comprising a frame, a pair of drive wheels supporting said frame, a motor and transmission elements on said frame for driving said drive wheels, a stationary power pulley rotatably mounted on

said frame, an operator's platform secured to said frame to turn therewith and extending rearwardly in alinement



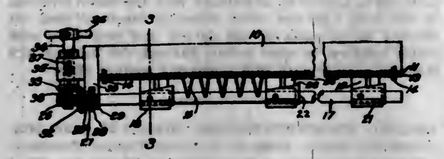
with said pulley, an operator's seat on said platform, and means controlled by the operator from his seat for oscillating said frame to steer the engine.

1,392,422. SOLE-CHANNELING CUTTER. ROBERT R. LAMBVERS, Cairo, Ill. Filed Jan. 28, 1921. Serial No. 440,604. 3 Claims. (Cl. 112—45.)



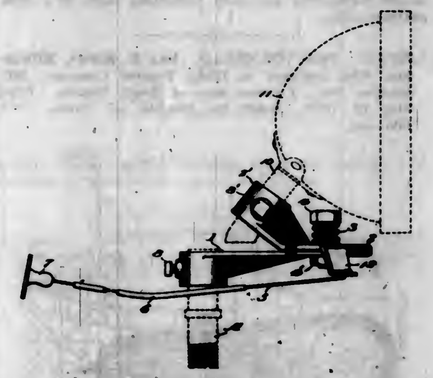
1. A needle plate of the class described having a longitudinally extending slot therein and openings communicating with the slot, a cutter including a shank and a cutting head, the shank sliding in the slot, said shank having an extension for engaging one of the openings when the cutter is in operative position and an opening for registering with the other opening in the plate and a locking bar slidably mounted on the plate and having a part for passing through the registering opening for holding the cutter in operative position and for engaging the extension for holding the cutter in inoperative position.

1,392,423. PEN-CLAMP FOR RULING-MACHINES. HARMON E. LINDBLADE, Boston, Mass. Filed Oct. 21, 1916. Serial No. 258,986. 8 Claims. (Cl. 33—45.)



1. A pen-clamp for ruling machines comprising a relatively fixed jaw, an opposed movable jaw, supports extending from the fixed jaw to points outside the movable jaw, and an actuating member for the movable jaw mounted to move longitudinally of the jaws upon the supports at the exterior of the movable jaw.

1,392,424. HEADLIGHT FOR VEHICLES. FRANK O. LINSTROM, Watertown, and PETER A. LINSTROM, Castlewood, S. D. Filed Apr. 24, 1918. Serial No. 230,426. 1 Claim. (Cl. 240—61.)



A vehicle light comprising a bracket with means for removably securing it on its support, one end of the bracket extended horizontally to form an enlarged flat circular bearing, a plate of corresponding form and adapted to fit the enlarged bearing of the bracket, a bolt extended through the centers of said parts, a spring thereon, means on the bolt for drawing the bolt through the parts and applying tension to the spring, whereby said parts are held pivotally together and in yielding turning contact, the plate having a socket formed on the upper end thereof, a lamp having a shank fitted to the socket, a set-screw in the socket for holding the shank of the lamp adjustably therein, an arm extending from said plate, and means within reach of the operator connected with said arm, whereby to turn the plate axially with the bolt as a pivot to reflect the light in various directions horizontally.

1,392,425. TIRE-BLOW-OUT CLAMP AND EMERGENCY MUD-HOOK. CARL T. LIPPOLD, Los Angeles, Calif. Filed July 22, 1920. Serial No. 398,150. 3 Claims. (Cl. 152—14.)

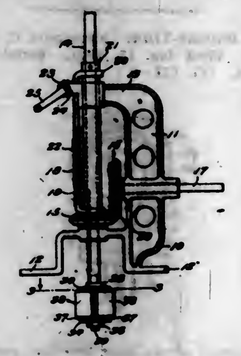


1. In a tractor device, a plurality of segmental units each consisting of a tread member, a clamp member hingedly connected to the tread member, a latch member hingedly connected to the clamp member, a lever integral with the latch member, a bar fixed to the tread member, said latch member engaging with the bar in operative position, and a spring adapted to press against the clamp member in operative position.

1,392,426. GRINDING-TOOL. JOHN FRANK MACDONALD, Chester, Pa. Filed Oct. 12, 1920. Serial No. 416,479. 2 Claims. (Cl. 51—206.)

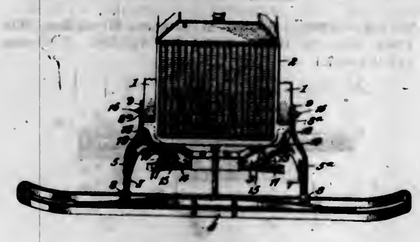
1. A boring and tool comprising a shaft, a body revoluble upon said shaft and formed cruciform in cross sec-

tion whereby to have a plurality of radial arms, segment-shaped shoes engaged upon said arms and carrying grinding members, and means for moving said shoes inwardly



or outwardly, said means comprising disks secured upon said shaft and having their confronting faces formed with spiral grooves, and lugs projecting from the ends of the shoes and engaged within said spiral grooves.

1,392,427. FRONT-BUMPER BRACKET. GEORGE STEWARD MACLEOD, Seattle, Wash., assignor of one-half to Angus P. MacLeod, Seattle, Wash. Filed Feb. 7, 1921. Serial No. 443,081. 4 Claims. (Cl. 293—55.)

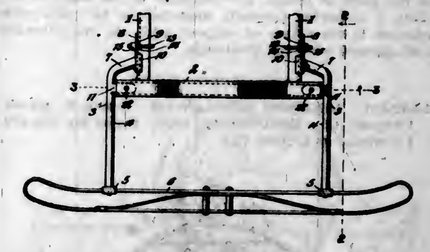


1. In an automobile fender structure, a supporting bracket for the fender, comprising an arm with a fender or bumper holder at the outer end, and an expanded fork at the inner end having branches, with one branch provided with a terminal eye and a hook bolt traversing it to engage a flange of the outer chassis frame, and the other branch slanting at an angle and terminating in an angle extension, with both the angle slanting portion and the angle extension having perforations for a U-bolt traversing the perforations and embracing the front cross member of the chassis frame.

1,392,428. REAR-BUMPER BRACKET FOR AUTOMOBILES. GEORGE STEWARD MACLEOD, Seattle, Wash., assignor of one-half to Angus P. MacLeod, Seattle, Wash. Filed Feb. 7, 1921. Serial No. 443,062. 3 Claims. (Cl. 293—55.)

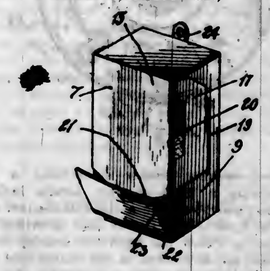
1. A rear bumper bracket for automobiles, comprising a stem, with a bumper clip at one end and a plate-like expansion at the other end offset with relation to the length of the stem and provided with ears having perforated terminal portions, with the perforations spread apart to a greater extent than the height of the side bars of the automobile chassis and lugs related to over-ride and under-ride the top and bottom of a side bar of the

automobile chassis, and said stem having a lateral lug for introduction between the rear cross member of the



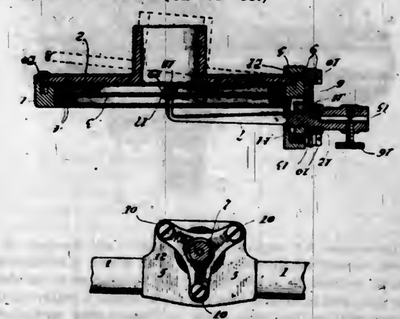
automobile chassis and the rear spring housed in and underlying said rear cross member.

1,392,429. MATCH-BOX. HENRI MAHEUX, Montreal, Quebec, Canada. Filed Oct. 12, 1920. Serial No. 416,495. 1 Claim. (Cl. 206—31.)



In a carton such as described, the combination of opposite side and end members and a bottom therefor, an upper closing section secured to one end of the box and having interlocking engagement with the sides of the box, the lower end of the said upper closing section being tapered, a lower closing section hinged to the lower end of the box, an extension thereon fitted beneath the lower tapered edge of the upper closing section, side members formed upon the lower closing section and fitted within the box, said lower section adapted to be pulled outwardly and with the side sections thereof to form a discharge chute for the contents of said box.

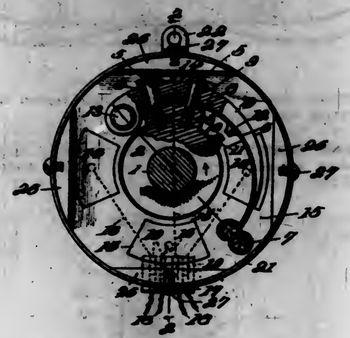
1,392,430. PHONOGRAPH-REPRODUCER. ORLANDO R. MARSH, Chicago, Ill. Filed Dec. 9, 1918. Serial No. 265,890. 6 Claims. (Cl. 274—35.)



1. In a phonograph reproducer, a frame provided with a base, a diaphragm carried by the frame, in combination

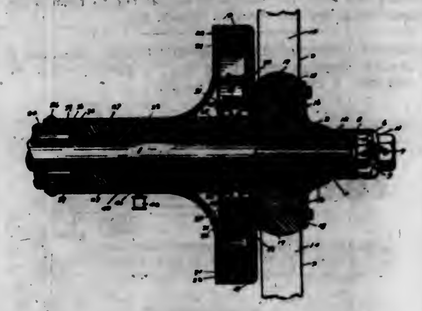
with a resilient plate supported on the base at three or more points so arranged that a line passing from one point to another point will not pass through the center of the plate to permit free vibration of the edges of the plate, a stylus-bar centrally supported by the plate with relation to the points of support, with one end extended and engaged with the diaphragm.

1,392,431. IGNITION MECHANISM. RALPH F. MEYER, Freeport, Pa. Filed May 10, 1920. Serial No. 382,559. 7 Claims. (Cl. 200—24.)



1. A contact making timber comprising a rotating member carrying a fixed contact, means including a resilient member provided with a movable contact designed to engage the fixed contact and also provided with a brush, a casing in which the rotatable member rotates, a plurality of cam pieces located in the casing and designed to engage the resilient member for causing the contacts to engage one another each time the resilient member passes over a cam piece and a stationary member provided with a plurality of conductor segments designed to be engaged by said brush.

1,392,432. AUTO ATTACHMENT. FREDERICK C. MILES, San Francisco, Calif. Filed Apr. 7, 1921. Serial No. 459,861. 1 Claim. (Cl. 301—8.)



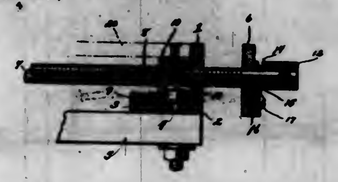
In means for supporting the rear axle housing of a Ford automobile directly on the rear wheel, a reinforcing sleeve secured to the inside of the housing so as to clear the axle and to extend into the brake drum, a collar on the sleeve within the brake drum, a flanged ring within the brake drum positioned co-axially with the collar having a plurality of perforations in its flange adapted to register with bolts securing the brake drum to the wheel and to be engaged by the bolts, and an anti-friction bearing having the collar and the ring for inner and outer races respectively.

1,392,433. WHEEL-TIRE. FREDERICK C. MILLER, Chicago, Ill. Filed Jan. 17, 1921. Serial No. 438,040. 13 Claims. (Cl. 152—8.)



7. In a device of the kind described and in combination, a felly adapted to receive an outer casing thereon, an annular series of coil springs on said felly, an annular ring surrounding said felly, said springs having their inner ends secured to said ring, radial members secured to said ring and extending inwardly thereof, stirrups on said felly, said radial members being slidable through said felly and stirrups, springs between said stirrups and felly to resiliently resist the inward movement of said radial members, and locking means at the free ends of said radial members to limit the outward movement of said radial members.

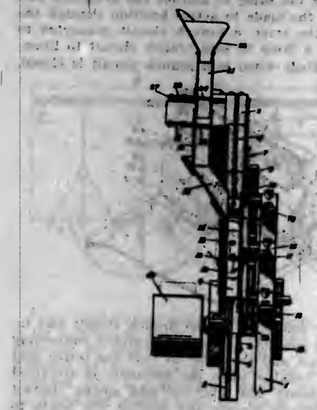
1,392,434. VISE. ROBERT M. MILLER, Milwaukee, Wis. Filed Nov. 22, 1920. Serial No. 425,692. 3 Claims. (Cl. 81—17.)



1. In a device of the character described, an angle iron, means for securing the same to a bench with one flange substantially horisontal and the other flange substantially vertical, a Z plate secured to said angle iron with its intermediate portions substantially vertical, a movable jaw having guide rods attached thereto and passing horisontally through said angle iron and Z plate, and slidably engaging the same, a threaded rod rotatably mounted in said movable jaw and held against longitudinal movement therein, said threaded rod passing horisontally through said angle iron and Z plate and threadingly engaging the latter, and means for rotating said threaded rod to open and close said jaws.

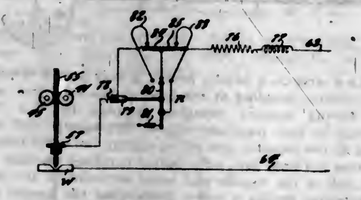
1,392,435. AUTOMATIC PRESS FOR CONCRETE BLOCKS. WILLIAM J. MILNER, Stockton, Calif. Filed May 15, 1920. Serial No. 381,561. 3 Claims. (Cl. 25—103.)

3. A concrete block press including a pair of presser heads arranged for opposed reciprocatory movement, a chamber in which said presser heads slide and adapted to receive the concrete to be pressed, a flexible wall structure for the chamber at the point where the concrete is pressed, such structure comprising a door hinged to the front of the chamber and side members hinged to the door; and automatically actuated means for clamping the door and sides firmly in position adjacent the chamber when the block is being pressed and for releasing said



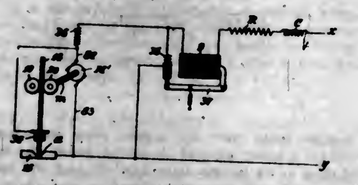
door and sides after the pressure on the block is withdrawn, whereby the door may be opened and the block removed from the chamber.

1,392,436. METHOD OF AND APPARATUS FOR ARC-WELDING. HARRY D. MORTON, Detroit, Mich., assignor to Automatic Arc Welding Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 2, 1918. Serial No. 264,929. 17 Claims. (Cl. 219—8.)



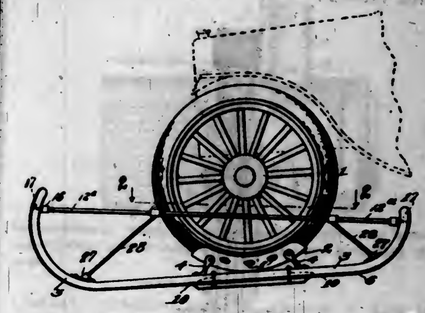
1. In a metallic electrode arc welding apparatus, means for continuously feeding a welding strip toward the work, and means for varying the rate of fusion to control the relation between the rate of fusion and the rate of feed.

1,392,437. ARC-WELDING SYSTEM AND METHOD OF OPERATING THE SAME. HARRY D. MORTON, Detroit, Mich., assignor to Automatic Arc Welding Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 2, 1918. Serial No. 264,930. 28 Claims. (Cl. 219—15.)



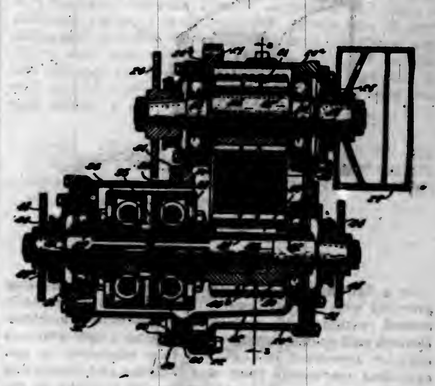
1. In a welding apparatus, a welding tool, a welding circuit, and a stabilising means constant in its effect included in said welding circuit.

1,392,438. SLEIGH ATTACHMENT FOR AUTOS. NORDAHL O. NELSON, Westby, Wis. Filed Dec. 7, 1920. Serial No. 428,939. 3 Claims. (Cl. 280—13.)



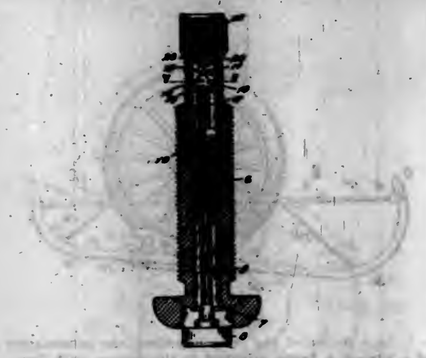
1. In a device of the class described, the combination of a runner, a frame attached to the runner, said frame including a primary coupling sleeve and a hinged arm, said arm provided at its outer end with an auxiliary coupling sleeve, said primary coupling sleeve provided with a rib, said auxiliary coupling sleeve provided with a socket portion adapted to fit over the rib, and fastening means extending through the auxiliary coupling sleeve and into the primary coupling sleeve.

1,392,439. POWER-TRANSMITTING MECHANISM. BOUDEWIJN B. NEUTEBOOM, Detroit, Mich., assignor to The Militor Corporation, New York, N. Y., a Corporation of New York. Filed June 3, 1918. Serial No. 237,963. 13 Claims. (Cl. 64—52.)



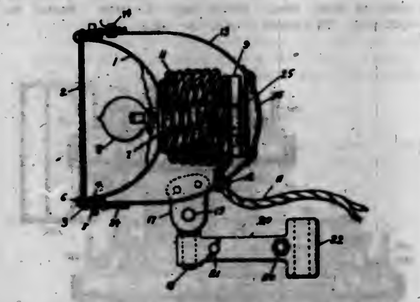
1. In power transmitting mechanism for motor vehicles, the combination of a casing supported by the chassis of the vehicle, a driving shaft rotatably supported by the casing and having operative connection with the power plant, a member journaled within the casing on an axis parallel to that of the driving shaft, a driven shaft journaled within said member eccentric with respect to the journals of said member but parallel to the axis thereof, driving connections between the shafts and located within the casing, and means exterior of the casing for rotating the member within the casing, the driven shaft having connection with the driving wheels of the vehicle.

1,392,440. VALVE CONTROL FOR PNEUMATIC TIRES. Joseph M. Newsom, St. Louis, Mo., assignor to Newsom Valve Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 5, 1920. Serial No. 356,544. 3 Claims. (Cl. 152—12.)



1. In a valve control of the class described an element comprising wards arranged for fitment in a valve tube to be engaged by a valve-stem depressing key.

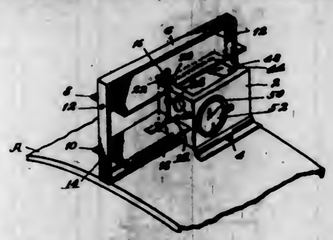
1,392,441. ELECTRIC LAMP. John P. Nikonow, New York, N. Y., assignor, by mesne assignments, to The Hawthorne Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Apr. 9, 1919. Serial No. 288,775. 1 Claim. (Cl. 240—7.)



In a lighting apparatus, the combination of a housing provided with a front opening; a portable unit normally housed within said casing and removable therefrom through said opening, said unit comprising a light-source, a reflector associated therewith, a tube supported by and extending rearwardly from said reflector and supporting said light-source, a disk carried by and adjacent to the rear end of said tube; and light-source supply conducting means extending from said light-source within said tube and laterally therethrough forward of said disk and through said casing to the exterior of the latter, said conducting means being normally wound on said tube forward of said disk.

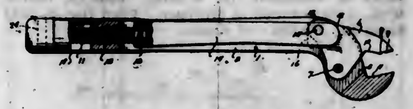
1,392,442. DIRECTION-INDICATING SIGNAL. George B. Owens, Merriam, Kans. Filed June 1, 1920. Serial No. 386,525. 1 Claim. (Cl. 177—329.)

A device of the character described, consisting of a rockably-mounted signal blade, a lever associated with said blade to rock the same to active and inactive positions, an armature on said lever, a normally deënergized electromagnet, a main circuit to energize said electromagnet and cause the same to attract the armature and effect rotation of the blade to active position through the intermediacy of the lever, a branch circuit connected to the main circuit, a lamp in said branch circuit to illuminate the signal blade when said branch circuit is closed,



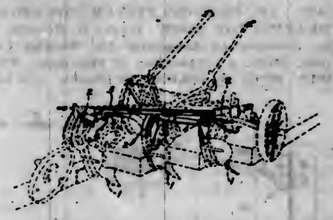
a circuit breaker connected to the branch circuit and including a spring contact, and a rod operably connecting said spring contact and the lever so that the latter may close the circuit breaker when the armature is attracted by the electromagnet and whereby said spring contact may open the branch circuit and restore the blade to inactive position through the intermediacy of the lever when the electromagnet is deënergized.

1,392,443. WRENCH. William Petersen, De Witt, Nebr. Filed Feb. 26, 1921. Serial No. 447,940. 2 Claims. (Cl. 81—111.)



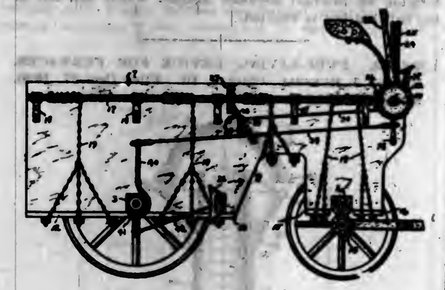
1. In a wrench, a handle having a fixed jaw, a movable jaw pivotally mounted at the base of the fixed jaw, said jaws having member engaging gripping faces, a link engaging in and longitudinally of the handle and connected to the movable jaw for operating the same toward and from the fixed jaw, an actuator threaded through the other end of the handle and being swiveled to the link, said actuator having a sleeve telescoping the handle and being substantially of uniform diameter with the handle.

1,392,444. PLOW-BEAM BRACE. Carl E. Peterson, Kerkhoven, Minn. Filed Nov. 12, 1920. Serial No. 423,582. 3 Claims. (Cl. 97—68.)



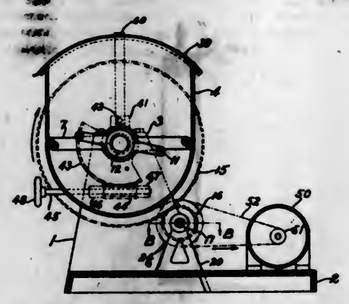
1. A plow beam brace for a gang plow comprising a longitudinal member adapted to extend across the beams of said plow at an intermediate point thereof and having pairs of spaced lugs depending therefrom and adapted to tightly embrace said beams, and plates connecting the lugs of each pair bolted thereto and disposed beneath said plow beams, to tightly and rigidly inclose said beam.

1,392,445. DUMP-WAGON. Peter A. Peterson, Omaha, Nebr. Filed June 24, 1920. Serial No. 391,474. 3 Claims. (Cl. 298—24.)



1. In combination with a vehicle body having openings in its bottom and having doors hingedly mounted thereon adjacent to said openings, a pair of operating-shafts mounted on the sides of the vehicle body, each being provided with a gear wheel, flexible strands connecting the operating shafts with the doors and adapted to be moved by a revoluble movement of the operating-shafts for moving the doors into closed relation with said openings, a sleeve, a pair of tubular clutch-members each circumscribing the sleeve and having bearings in the vehicle-body, a pair of gear-wheels each being provided with a clutch-member and rigidly mounted on a stub-shaft in engagement with a gear-wheel of an operating shaft, means for moving the clutch-members on the sleeve into engagement with the clutch-members of the gear-wheels of the stub-shafts, and means to rotate the sleeve for rotating the operating-shafts.

1,392,446. DOUGH-MIXER. Bryan D. Pinkney, Newport, Ky. Filed Nov. 13, 1920. Serial No. 423,797. 6 Claims. (Cl. 259—105.)



1. In a dough mixer, a plurality of mixing arms, and means controlled by the variations in the consistency of the material worked upon to automatically change the speed ratio of the mixing arms, so that a homogeneous substance is effected.

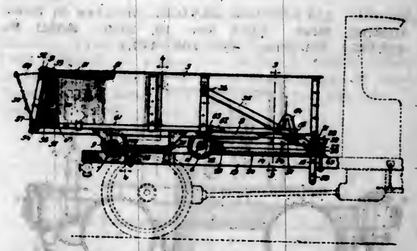
1,392,447. FUEL-ECONOMIZER. George L. Pagtz, Clovis, N. Mex. Filed Apr. 20, 1918. Serial No. 229,715. 2 Claims. (Cl. 162—7.)

1. In a device of the class described the combination of a chamber having an outlet, a fire box and a communication between the fire box and the chamber, an exhaust port exhausting into the chamber and a bar positioned in the chamber and arranged between the exhaust port and the outlet transversely to the outlet and exhaust port, said bar permitting the exhaust from the exhaust port to at all times pass into the outlet, said bar being secured



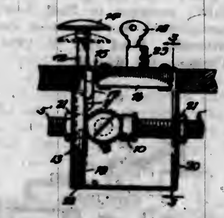
for movement relatively to the exhaust port and outlet and having means connected thereto for actuating the same.

1,392,448. DUMPING DEVICE. Charles F. Randall, Chicago, Ill. Filed Sept. 20, 1919. Serial No. 325,163. 4 Claims. (Cl. 298—14.)



1. A dumping device having in combination, a body with a pivoted tail-gate, a roller supporting said body, a rack and pinion, a lever connected to the axis of said pinion and pivotally secured to said body for sliding and tilting said body upon said roller, a latch for holding said tail-gate in closed position, and means operated by said lever for releasing said latch when said body has been tilted.

1,392,449. CUT-OFF FOR GASOLENE-FEED ON MOTOR-VEHICLES. Bernard W. Richards, Chicago, Ill. Filed Mar. 18, 1920. Serial No. 366,773. 1 Claim. (Cl. 251—6.)



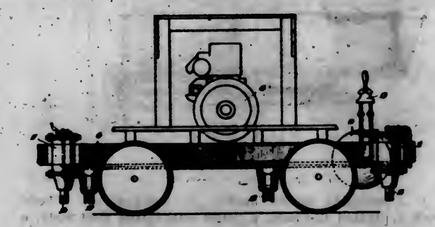
The combination of a casing adapted to be secured to an automobile, a fuel feed pipe for the automobile engine passing through said casing, a push bar within said casing projecting through the casing wall and having a bore in one end, a guide rod on the casing extending into said bore, a spring on said rod between the casing wall and said push bar, a valve in said pipe operatively engaged by said push bar, a lug on said push bar adapted to engage the wall of the casing to limit outward movement of said push bar, and means to engage the lug to lock the push bar in inward position.

1,392,450. FUEL-OIL BURNER. JOHN EDWARD ROGERS, Imperoyal, Nova Scotia, Canada. Filed Nov. 1, 1920. Serial No. 421,055. 4 Claims. (Cl. 158—75.)



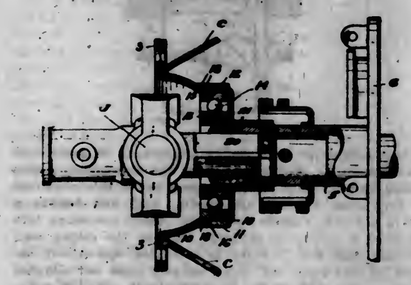
1. A fuel oil burner comprising a fuel nozzle, a steam nozzle, each of the said nozzles having a suitable discharging port which said ports are adjacent to each other and being adapted to discharge in a plane substantially at right angles to the ports, and independently adjustable controlling plates for each nozzle adapted to be adjusted in a plane transverse to the plane of discharge of the fuel

1,392,451. AIR-LIFTING DEVICE. WILLIAM N. ROWE, Hibbing, Minn. Filed Nov. 10, 1920. Serial No. 423,145. 3 Claims. (Cl. 105—177.)



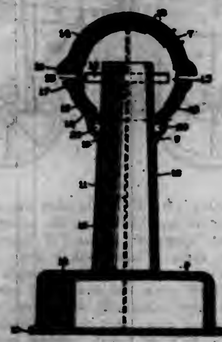
1. In combination with a car adapted to run upon rails, main wheels running on the rails, and supplemental wheels, a source of compressed air carried by the car, air lines leading from said source to a plurality of air cylinders carried by the car and having pistons with portions adapted to lift the car vertically, said pistons being independent of said main and supplemental wheels.

1,392,452. TRANSMISSION-BEARING AND UNIVERSAL-JOINT CAP. GLOVER EDWIN RUCKSTELL, San Francisco, Calif., assignor to Hall Scott Motor Car Company, Incorporated, San Francisco, Calif., a Corporation of California. Filed July 19, 1920. Serial No. 397,320. 6 Claims. (Cl. 64—89.)



4. The universal joint cap and casing end of a motor vehicle, said cap having its usual smaller end removed and a sleeve applied in its stead, and a ball bearing retained in the sleeve to take the contiguous end of a drive element of the transmission, said sleeve and cap forming an internal shoulder against which one end of the ball bearing is abutted.

1,392,453. FUEL-SAVING DEVICE FOR FURNACES. NELSON J. RUSSELL, Chicago, Ill. Filed Dec. 27, 1920. Serial No. 433,345. 1 Claim. (Cl. 126—163.)



A fuel saving device, consisting of a relatively flat hollow base having its lower portion open, an upright chimney centrally mounted on the upper surface of the base in communication with the cavity thereof and a casing surrounding the upper portion of the chimney and mounted thereon, said casing forming an expansion chamber and provided with a horizontally disposed opening for the discharge of air.

1,392,454. PROCESS FOR WITHDRAWING FLUIDS FROM SEALED CONTAINERS WITHOUT CONTAMINATION. JOHN J. SEELMAN, Milwaukee, Wis. Filed Mar. 10, 1920. Serial No. 364,862. 2 Claims. (Cl. 167—7.)

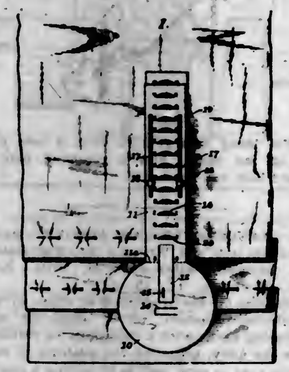


1. The process of withdrawing fluid used for injection purposes from a container for said fluid, which consists in drawing the fluid into the needle of the syringe kept out of contact with the air and simultaneously introducing into the space in the container not occupied by fluid sterilized air to take the place of the withdrawn fluid.

1,392,455. SEWER'S GAGE. PHILIP C. SIMONS, New York, N. Y., assignor to The Butterick Publishing Company, New York, N. Y., a Corporation of New York. Filed Sept. 23, 1919. Serial No. 325,785. 3 Claims. (Cl. 33—9.)

1. A sewer's gage of sheet material, comprising a member forming a base; a second member, connected with

the first member and adapted to lie in the plane of the latter or to be bent up at right angles to form a standard, said second member having a plurality of transverse apertures spaced one beyond the other; and means for holding said second member in vertical position, comprising a folding brace, connected at one end to one



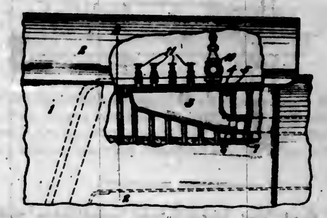
of said members and adapted to extend flat across the line of juncture of said members when the two latter are in the same plane, and a device carried by the other member and adapted for releaseable engagement with the free end of the brace to hold the same when the said second member is in vertical position.

1,392,456. FAUCET WITH DRINKING ATTACHMENT. NOAH SPATTER, Kansas City, Mo., and ATANAS WKLIKOFF, Wilkes-Barre, Pa. Filed Jan. 7, 1919. Serial No. 269,964. Renewed Feb. 26, 1921. Serial No. 448,075. 7 Claims. (Cl. 299—9.)



1. A faucet provided with a member adapted to communicate with a water supply passage of the faucet and to direct water from such passage to a discharge opening independent of the normal discharge opening of the faucet; said member comprising a tube concentrically and resiliently mounted to play within a chamber in the faucet valve and its stem, said tube having a port for water ingress.

1,392,457. INVISIBLE CAB-TURRET. HAL R. STAFFORD, North Plainfield, N. J.; Mary M. Stafford administratrix of said Hal R. Stafford, deceased. Filed Nov. 17, 1919. Serial No. 338,634. 7 Claims. (Cl. 105—37.)



1. A locomotive boiler having a steam turret secured upon the inside of the boiler and steam supply valves connected with said turret, but located upon the outside of the boiler.

1,392,458. TYPEWRITER-RIBBON. HARRY S. STARK, Park Ridge, N. J., assignor to Mittag & Volger, Incorporated, Park Ridge, N. J., a Corporation of New Jersey. Filed June 12, 1919. Serial No. 303,607. 1 Claim. (Cl. 197—172.)

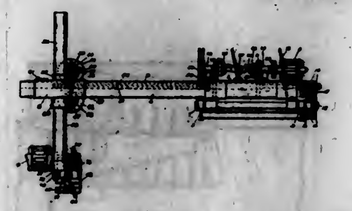


A writing-machine ribbon of customary textile weave having adjacent parallel longitudinal stripes or bars of differently colored inks, and an applied narrow dividing line between the same of glue serving as an oil-repellent and adapted to prevent the merging of the bars of color at their adjacent edges into one another, said lines of glue penetrating the fabric of the ribbon.

1,392,459. APPARATUS FOR CUTTING BRICKS OR BLOCKS FROM NATURAL DEPOSITS. EDWARD B. STARR and HOWARD E. MARSH, Lompoc, Calif. Filed Jan. 31, 1921. Serial No. 441,346. 4 Claims. (Cl. 262—19.)

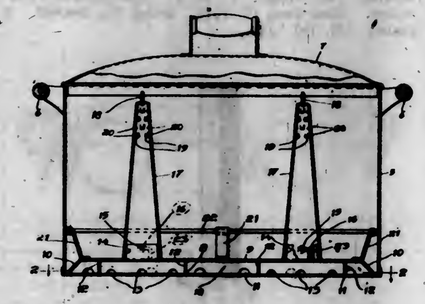
1. An apparatus for cutting bricks or blocks from a natural bank of material comprising a vehicle adapted to move parallel to the bank face, guide means extending laterally from said vehicle, a slide member mounted to slide on said guide means, motor-driven controllable means for moving said slide member along said guide

means, a cutter head mounted on said slide member to move vertically thereon, sewing means carried by said



cutter head, and motor-driven controllable means for moving said cutter head vertically on said slide member.

1,392,460. ATTACHMENT FOR WASHBOILERS. JOHN I. STERN, Waukegan, Ill., assignor to Triple Metals Corporation, Waukegan, Ill., a Corporation of Illinois. Filed Oct. 6, 1920. Serial No. 415,023. 1 Claim. (Cl. 68—20.)



A device of the class described, consisting of a base having its edges downwardly deflected therefrom and adapted to rest on the bottom of a boiler thereby forming a chamber between said base and the bottom of the boiler, said deflected portion of the base having spaced recesses therein, a pair of spaced upright tubes mounted on the base at a distance from its edges in communication with said chamber, a perforated annulus mounted on the lower surface of the base around each of said tubes and each adapted to rest on the bottom of the boiler, a pipe interlockingly and detachably connected at its lower end to each of said tubes and having its upper end closed and below said end a plurality of openings, an inwardly and downwardly disposed deflector located within each of said pipes above each of the openings in the upper part thereof, a hook or loop on the upper end of each of said pipes, and a horizontally disposed rail supported by the base at a distance above the same along its edges.

1,392,461. AUXILIARY SEAT FOR BABY-CARRIAGES. EDWARD H. STRUMMING, Tonawanda, N. Y. Filed Feb. 6, 1919. Serial No. 275,378. 1 Claim. (Cl. 155—10.)

A seat for a baby-carriage, having an adjustable T-shaped foot-rest comprising a single length of wire doubled on itself to form the shank of the rest, the end portions of the wire being bent laterally in opposite directions to form foot-supports, the middle portions of the

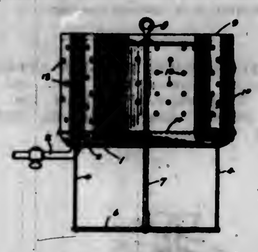


doubled wire being separated to form a loop extending crosswise of the board, and a clamping bolt passing through said loop and the board.

1,392,462. MANUFACTURE OF ALLOYS. HENRY LIVINGSTONE GULMAN and WILLIAM BOWMAN BALLANTINE, London, England. Filed June 21, 1919. Serial No. 305,869. 20 Claims. (Cl. 75—17.)

1. The process for the production of alloys by high temperature thermo-reduction, which comprises mixing a thermo-reducing agent with a compound of certain metals required in the alloy, adjusting the quantity of one of the metals above that in combination by adding a compound of that metal with another metal required in the alloy, and igniting the mixture to reduce the compounds to the metallic state.

1,392,463. GASIFIER FOR LOW-GRAVITY OILS. THOMAS M. TAGGART, Belvedere, Calif. Filed Feb. 7, 1920. Serial No. 357,056. 2 Claims. (Cl. 158—86.)

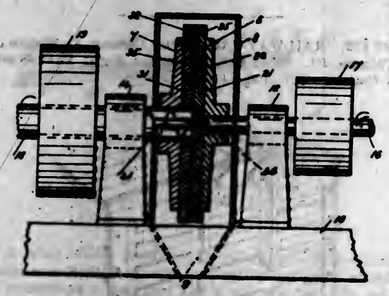


1. In a burner a gasifier for low gravity liquid fuel formed of thin metal and of annular form and supported from below an annular chamber formed about a central axis and within which said gasifier is disposed and through which it may be raised, means extending through the bottom of said chamber and supporting said gasifier and a central member extending upward substantially at the chamber axis and adapted to operate said supporting means from above the burner to raise and lower said gasifier in said chamber.

1,392,464. GRINDING-MILL. CARL G. THOMPSON, Knoxville, Tenn. Filed Oct. 30, 1920. Serial No. 420,666. 1 Claim. (Cl. 83—8.)

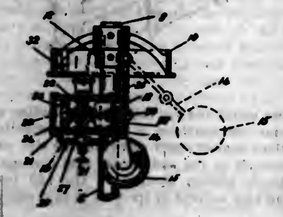
In a mill for re-grinding bran and other similar material, two horizontal driving shafts arranged end to end, one of the said shafts being tubular, means for revolving the said shafts at different speeds in the same direction, opposed vertical grinding heads secured on the said shafts, metallic inner grinding rings secured to the said heads and provided with relatively coarse saw-shaped grinding teeth which work point to point, metallic outer grinding rings encir-

cling the inner grinding rings and provided with feed furrows and finely serrated grinding surfaces arranged alternately, and means for forcing the material to be re-ground



under pressure through the tubular shaft and between the inner grinding rings into the feed furrows of the outer grinding rings.

1,392,465. DRIVING MECHANISM. CARL G. THOMPSON, Knoxville, Tenn. Filed Feb. 12, 1921. Serial No. 444,421. 5 Claims. (Cl. 74—14.)



1. The combination, with a gyratory device, of a driving shaft journaled therein, a weighted driving arm pivotally connected with the said shaft, and a dash-pot cylinder closed at each end and provided with a piston and piston-rod, said dash-pot cylinder and its piston-rod being operatively connected with the said shaft and arm and controlling the pivotal movements of the arm in each direction.

1,392,466. CAN-OPENER. HENRY TILL, Pittsburg, Calif. Continuation of applications Serial No. 335,355, filed Nov. 3, 1919, and Serial No. 346,025, filed Dec. 10, 1919. This application filed June 1, 1920. Serial No. 385,527. 5 Claims. (Cl. 30—3.)



1. A can opener comprising a shank, a rotary cutting disk thereon, and a sharp edged and narrow lip projecting from the periphery of the cutter and in the same plane as the cutting edge thereof.

1,392,467. WINDOW AND DOOR SECURER. CHARLES A. TOPP, Lebanon, Mo. Filed Apr. 28, 1920. Serial No. 376,789. 1 Claim. (Cl. 292—339.)

A window and door securer comprising two similar members having butt inner ends and beveled outer ends, a hinge connection between the butt ends of the members at one side thereof permitting the members to extend in alinement or fold flat against each other, the bevels of the outer ends of the members converging toward the hinged sides of the



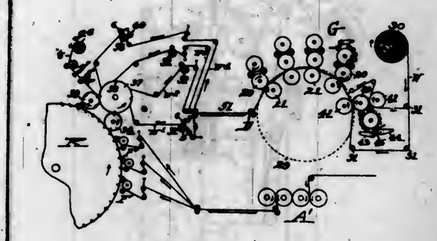
members and being disposed at a right-angle to each other, a locking means mounted to bridge the butt ends of the members at the side opposite the hinge connection, and securing spurs projecting from the beveled ends of the members.

1,392,468. PENCIL ATTACHMENT. HENRY E. WATKINS, Oakland, Calif., assignor to Frank A. Weeks Mfg. Co., New York, N. Y., a Corporation of New York. Filed Dec. 9, 1918. Serial No. 265,964. 1 Claim. (Cl. 120—87.)



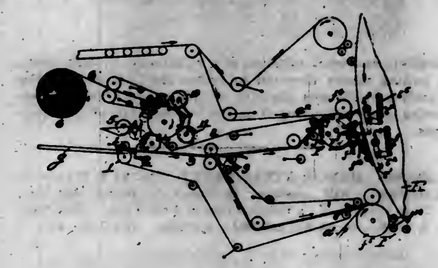
A pencil point protector formed of flexible and resilient material and having a tubular body for fitting upon a pencil in spaced relation thereto, a tapered extension formed at the outer end of said body for fitting in tight engagement with the sharpened end portion of a pencil and having an opening for passage of the pencil lead, the inner end portion of the body being tapered and inwardly thickened to provide a gripping flange for engaging the pencil and holding the guard in position thereon.

1,392,469. INSERT-PRINTING PRESS. HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Original application filed Sept. 7, 1910, Serial No. 580,870. Patent No. 1,232,639, dated July 10, 1917. Divided and application filed June 29, 1917, Serial No. 177,652. Divided and this application filed Jan. 31, 1919. Serial No. 274,217. 9 Claims. (Cl. 270—19.)



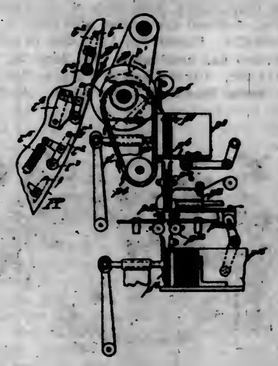
3. In a printing press, the combination with a series of plate cylinders comprising a plate cylinder movable into two positions, and two impression cylinders for the last named plate cylinder, each adapted to contact therewith when it is in one of its extreme positions, of two ink fountains, and an inking device adapted to coöperate with either of the fountains and deliver ink to the said last named plate cylinder in each of its positions.

1,392,470. **INSERT FEEDING AND CUTTING DEVICE.** HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Original application filed Sept. 7, 1910, Serial No. 580,870. Patent No. 1,232,639, dated July 10, 1917. Divided and application filed June 29, 1917, Serial No. 177,652. Divided and this application filed Jan. 31, 1919. Serial No. 274,218. 10 Claims. (Cl. 270—49.)



1. In a printing press, the combination with means for receiving insert sheets of means for feeding a web, a cylinder for receiving the web, a plurality of cutting cylinders each adapted to be brought into operative engagement with said cylinder for dividing the web into sheets, said cutting cylinders having different numbers of cutting knives thereon, and means for associating the sheets cut thereby with the insert sheets.

1,392,471. **MACHINE FOR DELIVERING MAGAZINES AND THE LIKE.** HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Original application filed Sept. 7, 1910, Serial No. 580,870. Patent No. 1,232,639, dated July 10, 1917. Divided and this application filed June 29, 1917, Serial No. 177,652. Renewed Apr. 15, 1921. Serial No. 461,677. 16 Claims. (Cl. 270—51.)



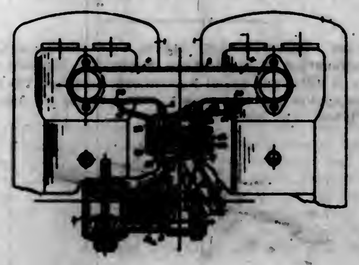
1. In a delivery, the combination of a delivery member for receiving the sheets and signatures to be delivered, a traveling conveyer having means thereon in position to receive each sheet or signature as it passes over the delivery side of the delivery member to support the same, a collating box having a reciprocating bottom past which the conveyer is adapted to move and normally projecting out into position to extend under the sheets and signatures as they are lowered, means for collecting a plurality of bundles of sheets or signatures in the collating box, and means for periodically withdrawing said bottom to permit said bundles of sheets and signatures to drop from the collating box.

1,392,472. **RAILWAY-CAR END.** GEORGE A. WOODMAN, Chicago, Ill. Filed Dec. 28, 1918. Serial No. 268,607. 6 Claims. (Cl. 105—410.)



4. A sheet metal end for railway cars having a plurality of transverse corrugations, a pair of vertically disposed rolled sections spaced apart and from the side edges of the end and secured to the end across said corrugations, and a buffer block section secured to the end between the sections and also secured at its ends to said rolled sections.

1,392,473. **REATOMIZER.** FREDERICK O. BALL, Detroit, Mich., assignor to Ball & Ball Carburetor Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 4, 1920. Serial No. 408,242. 17 Claims. (Cl. 261—66.)



1. In a reatomiser, the combination of a wall forming a mixture passage; a liquid collector opening from said wall and intercepting ingoing fluid from said wall; and means for driving the fuel from the collector by a current of gaseous fluid passing through the collector and spraying the liquid into the mixture passage.

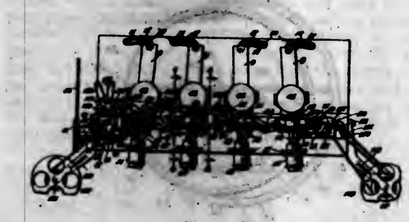
3. In a reatomiser, the combination of a wall forming a mixture passage; a liquid collector opening from said wall and intercepting ingoing liquid; means inducing a current of mixture through the opening; and means returning the fuel collected into the current of mixture in the mixture passage.

1,392,474. **WINDSHIELD-PROTECTOR.** JOSEPH BERARD, Columbus, Ohio. Filed Aug. 3, 1920. Serial No. 400,973. 2 Claims. (Cl. 296—95.)



1. A wind shield protector including, in combination, suitable standards, a top for connection with said standards comprising a rear part and a forward part, the rear part including a pair of longitudinally slotted side bars, a threaded rod and clamping nuts thereon connecting said side bars to said standards, the forward part of said top including side bars each having a longitudinal slot and a hole in the end thereof beyond said slot, clamping means connecting the forward ends of the rear side bars with the rear ends of the forward side bars at their slots adapted to permit the sliding of the forward side bars with relation to the rear side bars, and means connecting the forward side bars at the rear holes thereof at the slots of the rear bars adapted to hold the forward and rear bars in parallel relation to each other, a rod connecting the forward ends of the forward side bars and separate coverings secured to and extending between said rear and forward side bars respectively.

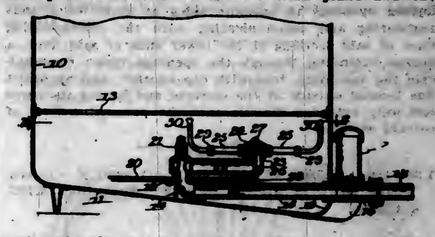
1,392,475. **MOTION-PICTURE APPARATUS.** GEORGE W. BINGHAM, Cleveland, Ohio, assignor to The International Moving Picture & Film Company, Nashville, Tenn., a Corporation of Tennessee. Filed Oct. 23, 1918. Serial No. 259,362. 20 Claims. (Cl. 88—16.6.)



1. In a motion picture apparatus, the combination of a plurality of cinematographic units pivoted for angular adjustment with respect to each other, the pivotal and focal axes of each unit intersecting, and means for directing a film through the focal axes of the several units substantially at the point of intersection of their respective pivotal axes.

1,392,476. **DISH-WASHING MACHINE.** WALTER U. BOSOMWORTH, Chicago, Ill., assignor, by mesne assignments, to H. B. Corporation, Chicago, Ill., a Corporation of Illinois. Filed Sept. 27, 1920. Serial No. 412,960. 3 Claims. (Cl. 299—69.)

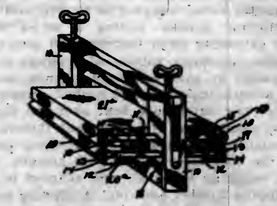
3. In a dish washing machine, the combination with a revolving sprinkler head, and a pivoted arm through which water is supplied to said head, of planetary gearing having one member stationary and the other member secured to said head, said parts being so constructed that the sprinkler head revolves in a fixed plane and the water therefrom is projected uniformly upward at a slight incline from said plane.



1,392,477. **AUTOMOBILE-POLISH, (COMPOSITION.)** THOMAS BROWN, Salt Lake City, Utah. Filed Feb. 3, 1921. Serial No. 442,166. 3 Claims. (Cl. 134—24.)

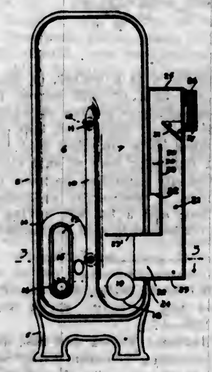
1. A polish composition comprising water, beeswax, soap, shellac, alcohol and oil.

1,392,478. **WRINGER DEVICE.** PAUL W. CARROLL, Des Moines, Iowa. Filed Nov. 20, 1919. Serial No. 339,455. 3 Claims. (Cl. 68—32.)



1. The combination of a wringer having rolls with a pair of rollers spaced from said rolls, endless flexible members designed to extend around the respective rolls and rollers, and means formed on said rollers for alternately moving the adjacent stretches of the endless members toward and from the rollers as they pass over said means, said means including members staggered relative to each other.

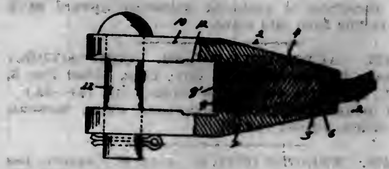
1,392,479. **GAS-HEATER.** LEGENDRE CINQ-MARS, San Francisco, Calif. Filed Aug. 10, 1920. Serial No. 402,717. 3 Claims. (Cl. 126—91.)



1. A gas heater embodying in its construction identically constructed heater sections each of which comprises

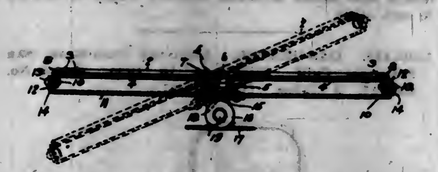
an ascending flue and a descending flue communicating with one another at their upper ends only, said sections having openings in opposite sides at their lower ends registering and communicating with the corresponding flues of said sections at the lower ends of said flues, a burner extending through the openings which communicate the ascending flues with one another, and an outlet flue located outside of the sections and having its lower end only extended directly into the descending flues of certain sections.

1,392,480. CABLE CONNECTION. ALBERT E. CLARKE, Detroit, Mich. Filed Apr. 15, 1920. Serial No. 374,163. 4 Claims. (Cl. 24—126.)



1. The combination with a stranded cable, having the strands at one end separated, of a body having an outwardly tapering recess adapted to receive said strands, a conical gripping member having a series of annular rearwardly extending teeth thereon, said conical gripping member being insertible within said conical passage-way and surrounded by said separated strands, said strands extending longitudinally of said conical gripping member and having their outer ends bent over the inner end of said conical member and lying adjacent thereto, a washer gripping member having a series of concentric teeth engageable with the bent over ends of said strands, and a nut threadedly engaging said body and adapted to force said washer gripping member and conical gripping member outwardly relative to said conical passage-way.

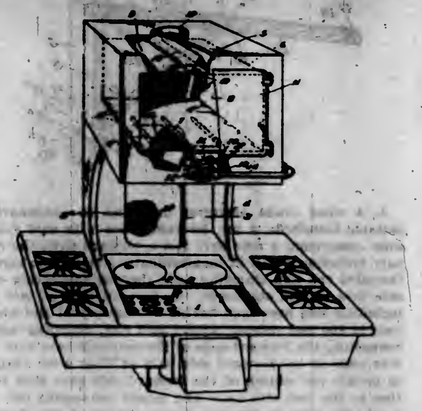
1,392,481. MIRROR-SUPPORT. GEORGE F. COLBERT and WILLIAM H. COLBERT, Pittsburgh, Pa. Filed Apr. 19, 1921. Serial No. 460,884. 3 Claims. (Cl. 45—97.)



1. The combination with a mirror, of clamping plates extending along the back of said mirror longitudinally thereof, said clamping plates having outwardly projecting clips engaging the ends of the mirror, lugs on said clamping plates, adjusting bolts engaging said lugs, inwardly extending lugs at the outer ends of said clamping plates, a bar having outwardly extending portions pivotally connected to said lugs, a rearwardly extending horizontal portion on said bar, and a bracket having a horizontal portion pivotally connected to said horizontal extension.

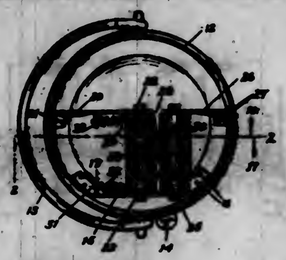
1,392,482. COOKING-RANGE. EDWARD P. COLE, Chicago, Ill. Filed Aug. 9, 1919. Serial No. 316,478. 3 Claims. (Cl. 126—17.)

1. In a stove having a firebox and flue, an oven structure comprising a casing communicating with said flue at its bottom and having an outlet flue at its top, an oven proper arranged within said casing and separated therefrom at its sides and top by heating passages communicating with said flues, and a partition inclosing a compartment at the bottom of said oven and above the bottom of the casing above said first-mentioned flue, an opening being provided permitting the admission of outside air into said compartment, said oven being provided with openings at top and bottom arranged to permit passage



of air from said compartment to said outlet flue, and a hollow shield secured to the top of said oven above its top openings and having imperforate sides arranged transverse to the path of products of combustion passing over the top of the oven into said outlet flue, said shield opening into the flue passage between the casing and oven.

1,392,483. MOP-BUCKET. ARMIN A. CUNNINGHAM, Omaha, Nebr., assignor of one-half to Garrett P. Wig, Omaha, Nebr. Filed Feb. 5, 1921. Serial No. 442,790. 2 Claims. (Cl. 15—12.)



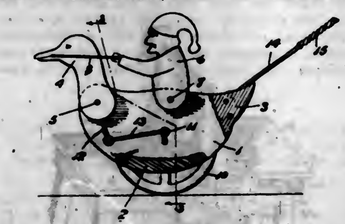
1. In combination with a bucket, a supporting bar mounted therein and provided with a slot and a perforated lug bent at substantially right angles from the bar away from the adjacent side of the bucket, a pair of arms extending across substantially the central part of the bucket and lying approximately parallel with said bar whereby to leave a large space at the other side of said arms away from the bar clear, one of said arms being provided with a slot therein and a perforated lug bent toward said first mentioned lug, a pair of rollers provided with trunnions extending therefrom, the trunnions of one roller being fitted in one of said arms and the bar, the trunnions of the other roller being slidably fitted in the slots in the other arm and bar, plunger brackets connected to the trunnions mounted in said slots and having abutments, rods extending from the abutments and being slidable in said perforated lugs, and resilient means on said rods between the lugs and abutments.

1,392,484. TOY BOAT. ABBOTT B. DAVIS, Saugatuck, Mich. Filed Jan. 19, 1920. Serial No. 352,427. 2 Claims. (Cl. 46—37.)



1. In combination, a miniature boat, a supporting plate extending between and pivotally mounted on the sides of the boat, a figure attached to and extending upwardly from said plate, arms pivotally mounted on and extending from the figure, cams pivotally mounted on the boat and connected at their inner ends to the outer ends of said arms, a shaft formed with an intermediate offset portion mounted between the sides of the boat below the supporting plate, a U-shaped stirrup attached to the supporting plate between the sides of which the offset portion of the shaft passes, a link attached to said offset portion of the shaft at one end and to the arms at its opposite end, and means for turning the shaft, substantially as and for the purposes described.

1,392,485. TOY DUCK. ABBOTT B. DAVIS, Saugatuck, Mich. Filed July 29, 1920. Serial No. 399,818. 7 Claims. (Cl. 46—45.)



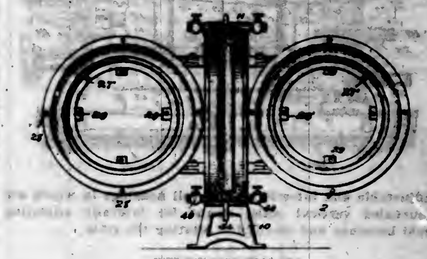
1. A toy comprising a body having spaced apart sides, a weight secured between the sides at the lower portion of the body, a shaft extending through the body and formed with a crank portion between said sides of the body above the weight, a neck and head portion pivotally connected at its lower end to the body between the sides thereof, a stirrup extending downwardly from the said head and neck portion, a link connecting the stirrup with the crank portion of the shaft, wheels connected with the ends of the shaft, and means for propelling the toy over the floor, said weight normally holding the body in upright position, substantially as described.

1,392,486. FOLDING STAND. ROBERT E. DICE, Indianapolis, Ind. Filed Apr. 17, 1920. Serial No. 374,640. 3 Claims. (Cl. 248—41.)



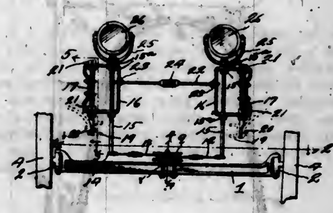
2. A foldable stand comprising a group of braces hinged together so as to occupy parallel or radiating positions, a leg member hinged to each brace, the brace members being so proportioned when folded into parallel position that the leg hinges will be alined, and leg extensions hinged to said legs.

1,392,487. TIRE-MOLD. JOHN RUSSELL BASS, Chattanooga, Tenn. Filed Feb. 17, 1921. Serial No. 445,638. 6 Claims. (Cl. 18—18.)



1. In a vulcanizer, a tread mold, a pair of side molds hinged to said tread mold, means to draw said side molds together, and other means to hold said side molds adjustably apart.

1,392,488. DIRIGIBLE HEADLIGHT FOR VEHICLES. CHARLIE FRED FLETCHER, Farmington, W. Va. Filed Mar. 11, 1921. Serial No. 451,501. 1 Claim. (Cl. 240—62.)

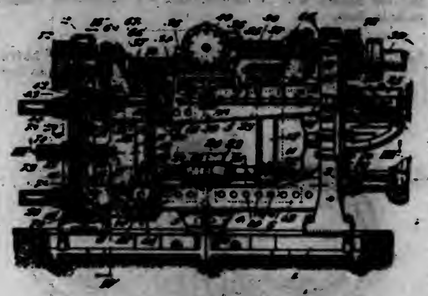


The combination with a front axle of a motor driven vehicle having wheels pivoted at the ends thereof and controllable by a transversely disposed rod located behind said axle, of a dirigible light mechanism for the vehicle, said dirigible light mechanism comprising vertically disposed lamp posts having lamps at their upper ends, the lower ends of said posts terminating above the axle and provided with forwardly and rearwardly extending arms, a horizontally disposed drum pivoted on the axle substantially centrally thereof and between the lamp posts, cables extending around said drum and having their ends connected to the forwardly and rearwardly extending arms, said cables being anchored to the drum, a rearwardly, downwardly and upwardly extending arm carried by the drum, a member clamped to the connecting rod for controlling the wheels carried by the axle, a rearwardly extending plate carried by said connecting rod member, the upper end of the rearwardly, downwardly and upwardly extending arm being disposed in an elongated aperture in the rearwardly extending plate carried by the connecting member.

1,392,489. UNIVERSAL MILL. HARRY R. GEER, Johnstown, Pa. Filed July 26, 1920. Serial No. 398,977. 14 Claims. (Cl. 80—36.)

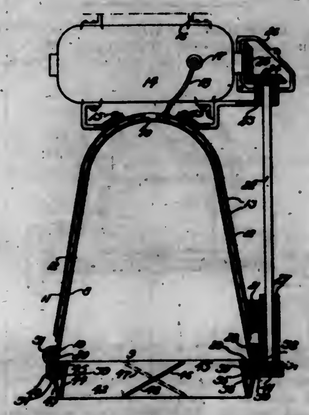
10. In a universal mill, end frames, upper and lower guides frames of unitary construction extending there-

between and secured thereto, slideways in said guide frames adapted to guide and support a pair of laterally



adjustable and interchangeable roll housings in which are journaled vertical rolls, means for laterally adjusting said housings and means for rotating the rolls.

1,392,490. COMBINED MEASURING AND DISPENSING DEVICE. CHARLES H. GEISTE and WILLIAM KLINE, Philadelphia, Pa. Filed June 7, 1920. Serial No. 386,942. 24 Claims. (Cl. 107—48.)

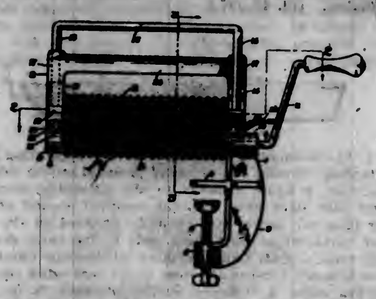


1. A measuring container adapted to be projected into a receptacle containing material to be measured out and including an open mouth; and a propeller located adjacent said open mouth and operative when advanced into said material to move material into said container through said mouth; substantially as described.

19. A measuring container including an open mouth; a propeller located adjacent said open mouth and operative to move material into said container through said mouth, whereby the material will be packed in a measured quantity within said container; and a motor supported by said container and operatively connected to said propeller; substantially as described.

1,392,491. KITCHEN UTENSIL. FRED G. GRAHAM, Canton, Ohio. Filed July 19, 1921. Serial No. 485,802. 2 Claims. (Cl. 17—29.)

2. A meat tenderer, including an inverted U-shaped frame, a roll journaled in the lower portion thereof, said frame being provided with vertical slots, a second roll journaled in said slots and an inverted U-shaped bar slidably mounted in the frame and engaging the journal portions of the second named roll, said U-shaped bar positioned to permit the operator to grasp the same together with the U-shaped frame to force the second named roll against the first named roll.



1,392,492. MACHINE FOR AND METHOD OF LINING CAN ENDS. CHARLES W. GRAHAM, Allendale, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed July 20, 1917. Serial No. 183,396. 14 Claims. (Cl. 113—80.)

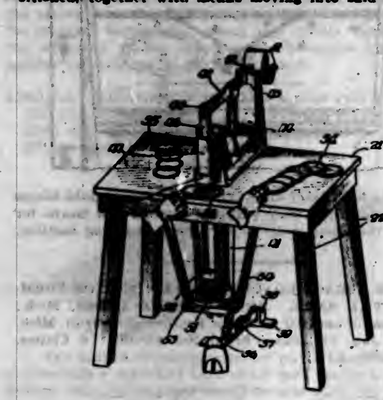


1. A machine for assembling thin, annular gaskets with flanged and shouldered can ends, comprising in combination a bed having a shouldered aperture arranged to permit an operator to deposit a gasket therein, a can end support beneath said aperture and arranged to permit an operator to deposit a can end thereon in axial alinement with the gasket in said aperture, centering means yieldable in a radial direction relative to the can end and engageable with the edge of the can end and a plunger operable at will for assembling said gasket and said can end.

14. A method of applying gasket liners to flanged and shouldered can ends, which consists in placing at the two hands of and in front of the operator and at opposite sides of an assembling station the ring liners and can ends respectively in horizontally extended piles of superposed articles, manually selecting a gasket and a can end from said conveniently arranged sources of supply and manually sliding them toward each other to said assembling station and depositing them in holding devices and in spaced axial alinement, and thereafter assembling the same by axial pressure set in operation by the foot of the operator while the hands are selecting another gasket and a can end for subsequent placing in said holding devices.

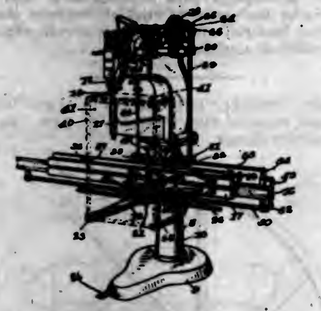
1,392,493. SEMI-AUTOMATIC GASKET-LINING MACHINE. CHARLES W. GRAHAM, Allendale, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 13, 1917. Serial No. 196,506. 11 Claims. (Cl. 113—80.)

1. A machine for assembling thin, annular gaskets with flanged and shouldered can ends, comprising in combination a bed having an aperture therein into which from the same side of said bed a can end smaller than the aperture and a superposed gasket may be manually positioned, together with means moving into said aperture



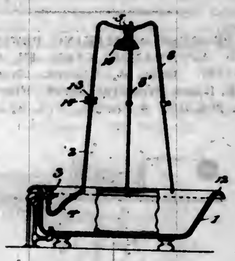
for assembling the gasket upon the flange of said can end, and yielding supporting means in said aperture for sustaining the can ends against the assembling pressure and removable by additional pressure to permit the passage of the assembled can ends and gaskets.

1,392,494. AUTOMATIC RIVETING-MACHINE. FREDERICK J. GREENE, Racine, Wis. Filed June 30, 1919. Serial No. 307,575. 13 Claims. (Cl. 78—49.)



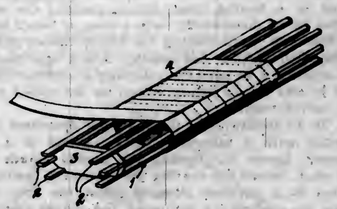
13. An automatic riveting machine, comprising a standard provided with riveting mechanism and a revoluble member having radially opposite openings, a wrist pin member revolubly connected to the revoluble member and having a tubular wrist pin, a bolt extending through said wrist and adapted to enter one of the openings of the revoluble member, means for moving said bolt, an arm and a link connection between the standard rock shaft and the tubular wrist pin, a transversely extending guide member mounted on the standard, a rock shaft of rectangular form in cross section carried by and extending longitudinally of the guide member, a slidable bar mounted on the guide member and provided with an outwardly projecting guide arm, a material holder mounted on the slidable bar, a rack bar mounted on the material holder, a dog reciprocally mounted on the transverse member and engaging the rock bar, a rock shaft carried by the standard and having an arm and a link connection with the dog, means for rocking the rock shaft, a material holder slidably carried by the outwardly projecting arm and provided with a rack bar, a dog reciprocally mounted on the projecting arm and engaging the last mentioned rack bar, an arm slidably mounted on and rocked by the rock shaft of rectangular form in cross section, a link connection between said slidable arm and the dog mounted on the projecting arm, an arm mounted on one end of the rock shaft of rectangular shape in cross section, a bell crank lever mounted on one end portion of the transverse guide member and having a link connection between the bell crank lever and the arm of the rock shaft mounted on the standard, and an arm and a link connection between the standard rock shaft and the driving mechanism of the machine.

1,392,495. PORTABLE SHOWER-BATH APPARATUS. ALBERT P. GUMAER, East Orange, N. J. Filed Feb. 28, 1921. Serial No. 448,381. 4 Claims. (Cl. 4—26.)



1. In a portable shower bath apparatus, the combination with a stationary bath tub including a discharge faucet, of jointed supporting standards removably attached thereto having hinged connections at their upper ends and supporting a spray discharge member therefrom, a conduit located within one of said supporting standards terminating in a detachable flexible connection with said faucet and adapted to convey water therethrough to said spray discharge member.

1,392,496. CONCRETE-FORM. JAMES C. HAIN, Los Angeles, Calif. Filed June 24, 1919. Serial No. 306,444. 8 Claims. (Cl. 25—118.)

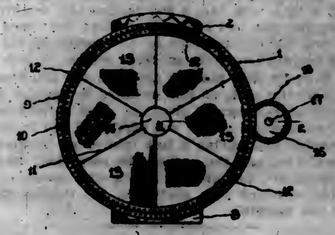


8. A core for casting hollow units of plastic material comprising a frame having a flexible covering thereon previously moistened to caused a contraction thereof after application.

1,392,497. ARC-LIGHT. JOSEPH JUSTICE HARMER, New York, N. Y. Filed Jan. 7, 1920. Serial No. 349,941. 4 Claims. (Cl. 240—3.)

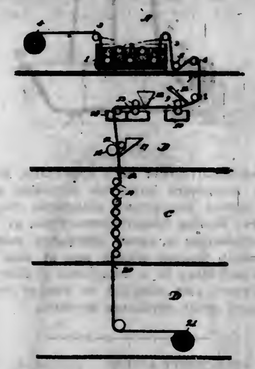
1. A device of the character described comprising a supporting casing, a light intensifying deflector mounted

therein, electrodes mounted in said casing and adjustable with relation to said collector, a rotatable lens mounted



in said casing, multi-colored plates in said lens, a spot light aperture formed at the centralized juncture of said plates, and means for rotating said lens.

1,392,498. PROCESS OF MAKING PREPARED ROOFING AND APPARATUS USED IN CONNECTION THEREWITH. OTTO A. HEPPES, Chicago, Ill., and CHESTER E. RAHR, Brookline, Mass. Filed Dec. 5, 1918. Serial No. 265,846. 4 Claims. (Cl. 91—70.)



1. A process of making prepared roofing consisting in passing the roofing fabric through a saturating tank seated in a heated zone, thence passing the saturated roofing fabric downwardly into a zone of lesser heat than the first and there coating the same, thence passing the roofing still farther downwardly into a still cooler zone and causing it to pass therethrough a sufficient length of time to cool it and finally collecting the cooled saturated and coated roofing.

2. In an apparatus of the character described, the combination with a saturating tank, located in a suitable chamber, means for feeding the roofing length through said tank, means for coating the saturated roofing length located in a chamber situated below the first chamber, means for cooling the saturated and coated roofing, comprising a plurality of rolls located in a chamber below the second chamber and means for collecting the completed roofing.

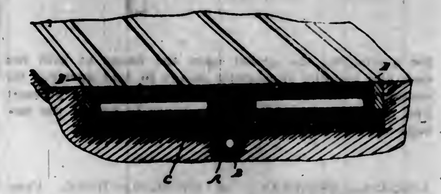
1,392,499. AUTOMOBILE-LOCK. FRED HAYDEN HOWARD, Stirling, Ontario, Canada. Filed Aug. 16, 1920. Serial No. 403,811. 6 Claims. (Cl. 70—128.)

1. A lock for automobile gear shift levers comprising hinge members adapted for connection to a suitable stationary part at widely separated points situated at the ends of the base of a triangle at the apex of which the gear shift lever lies; clamp arms connected with said hinge members having their outer ends adapted to clamp



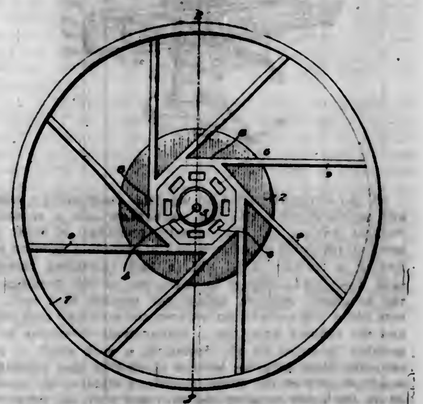
about the lever, said arms being swingable on said hinges to and from their lever engaging position and means for locking the clamp arms in their lever engaging position.

1,392,500. TRACK-ROADBED AND METHOD OF FORMING THE SAME. SOLON G. HOWE, Detroit, Mich., assignor of one-half to Wilbur Brotherton, Detroit, Mich. Filed Jan. 24, 1921. Serial No. 439,493. 6 Claims. (Cl. 238—7.)



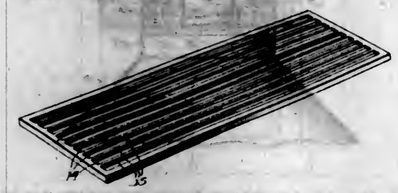
1. The combination with a railway track, of a supporting bed therefor formed of a void-filled coarse road material impregnated with a deliquescent salt, and a ballasting of finer road material of the same character, the lattter material forming a hard smooth surface for other vehicular traffic.

1,392,501. WHEEL AND SHAFT. JAMES CONDRON HUDSON, Gorman, Tex. Filed Oct. 11, 1920. Serial No. 416,261. 2 Claims. (Cl. 64—17.)



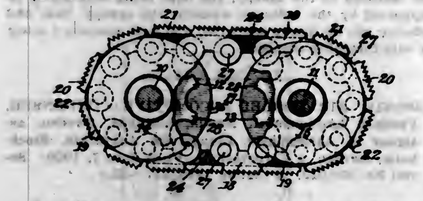
1. In combination with a cylindrical hollow shaft having adjacent each end an integral radial flange, and a hollow hub extending outwardly from said flange, said hub having a polygonal perimeter and a front wall provided with handholes, of a wheel body comprising a hub, spokes and rim, the spokes and hub being integral and channel-shaped, the second hub having a polygonal bore to fit the perimeter of the first named hub, the inner flange of the channel spokes and second hub rigidly secured to the aforesaid radial flange, and replaceable gudgeons secured at each end of the hollow shaft.

1,392,502. METHOD OF MAKING RAILS FOR PRINTING-PLATES. WILLIAM G. IMLACH, Berwyn, Ill. Filed Oct. 25, 1920. Serial No. 419,297. 7 Claims. (Cl. 22—203.)



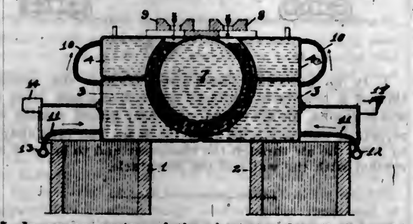
1. The method of making rails for plates which consists in providing a relatively hard metal shell having a groove therein, then casting soft metal in said shell and filling the groove, then cutting the reinforced casting to provide a T rail.

1,392,503. ENDLESS SAW. THADDEUS A. JACKSON, Brooklyn, N. Y. Filed July 8, 1919, Serial No. 309,469. Renewed Apr. 29, 1921. Serial No. 465,502. 1 Claim. (Cl. 143—32.)



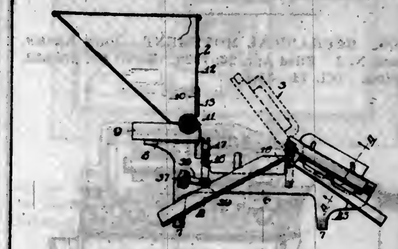
An endless saw comprising a chain of units each constituted by a web portion of uniform thickness throughout and integral toothed cutting bar of a thickness twice that of the web portion, as shown.

1,392,504. SLAG-FURNACE. EDWARD E. JAMES, San Francisco, Calif. Filed Oct. 16, 1920. Serial No. 417,335. 8 Claims. (Cl. 122—27.)



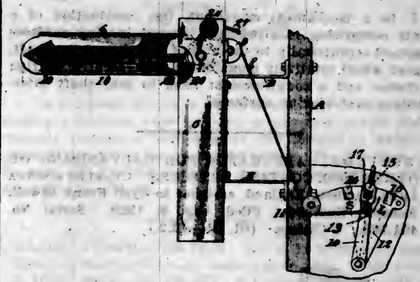
5. In an apparatus of the character described a relatively long steam boiler, a series of boiler sections surrounding the same in spaced relation to the circumference thereof, the space between said boiler sections and the steam boiler adapted to contain hot slag, some of said boiler sections being fixed relative to the steam boiler and other of said sections adapted to be withdrawn from around the same to release the slag, the said fixed sections being supported above the movable section but in close proximity thereto to provide an unbroken channel around the steam boiler.

1,392,505. CULLING-MACHINE. CHARLES W. JOHNSON, Chicago, Ill., assignor to Wm. Wrigley Jr. Company, Chicago, Ill., a Corporation of Virginia. Filed Sept. 13, 1920. Serial No. 409,978. 5 Claims. (Cl. 83—92.)



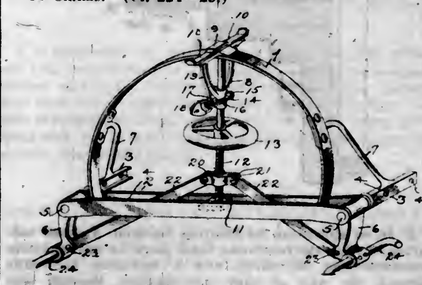
1. In a device of the character described, the combination of a culling frame comprising a series of bars spaced apart a predetermined distance, means for agitating said frame, and a series of fixed bars adapted to pass between the bars of said culling frame by the bodily movement of the latter from operative position.

1,392,506. DIRECTION-INDICATOR. EDMUND F. KIESSLING, Oakland, Calif. Filed Aug. 9, 1920. Serial No. 402,160. 5 Claims. (Cl. 116—52.)



1. In a direction indicator, an indicating arm adapted to assume various active indicating positions, and means for displaying a descriptive indicating character on the arm corresponding to one of the direction indicating positions of the arm and adapted to positively distinguish said position from the other positions that the arm is capable of assuming.

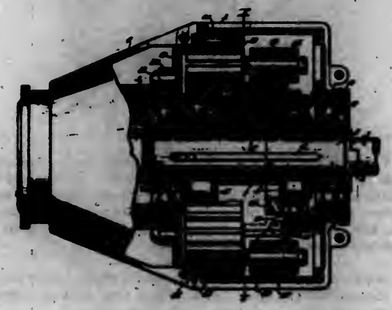
1,392,507. TIRE-CARRIER. ROBERT C. KISSINGER, Dayton, Ohio. Filed Aug. 12, 1919. Serial No. 316,986. 13 Claims. (Cl. 224—29.)



2. In a tire carrier, a main frame, a tire supporting member carried thereby, two movable tire engaging members adapted to simultaneously engage the inner circum-

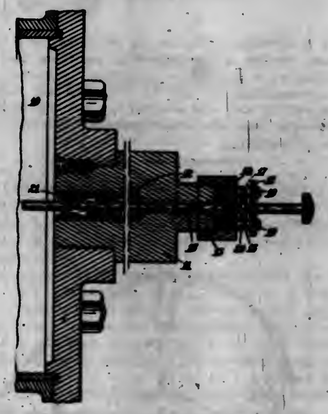
ference of the tire, and means for simultaneously adjusting said tire engaging members to and from each other including a revolvable screw, having spaced journal bearings in the main frame, and means for locking the screw.

1,392,508. MECHANICAL MOVEMENT. JOHN KROHN, Newark, N. J. Filed Apr. 26, 1920. Serial No. 376,553. 5 Claims. (Cl. 74—35.)



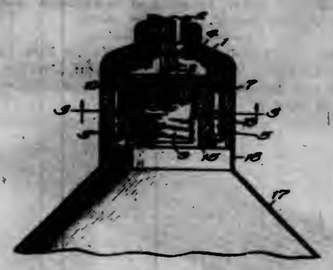
1. In a mechanical movement, the combination of a shaft comprising longitudinally spaced bearing surfaces disposed eccentrically to the axis of rotation of the shaft, a gear wheel rotatively mounted on said eccentric bearing surfaces, and a counterweight fixed to said shaft intermediate said bearing surfaces.

1,392,509. APPARATUS FOR GALVANIZING OR OTHERWISE COATING ARTICLES. CHARLES JOSHUA LANE, London, England, assignor to Cyril Frank Elwell, London, England. Filed Aug. 6, 1920. Serial No. 401,768. 6 Claims. (Cl. 91—12.2.)



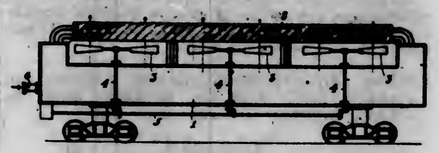
1. In an apparatus for treating material, a closed container wherein the treatment takes place, an ante-chamber communicating therewith, and a test-piece projecting through the wall of said ante-chamber, through said chamber and into said container whereby it is subjected to the treatment therein, said test-piece being adapted to be withdrawn in a plurality of stages.

1,392,510. SOCKET AND REFLECTOR. ERNEST M. LARKINS, South Bend, Ind., assignor to George Cutter Company, South Bend, Ind., a Corporation of Indiana. Filed Oct. 16, 1919. Serial No. 329,865. 7 Claims. (Cl. 240—11.)



1. In an electric lighting fixture, the combination of a canopy from which the electric conductors descend; a separate insulating base having a screw socket having terminals to which the electric conductors may be connected to thereby energise the terminals and temporarily support the base; upright fastening members adapted to be fastened to the canopy, the base being apertured to accommodate the fastening members, and a reflector adapted to support the fastening members before they are fastened to the canopy and to be supported by the fastening members after they are fastened to the canopy, the base being adapted to be supported by the reflector, whereby the canopy, base and reflector are all finally supported and held assembled solely by said fastening members.

1,392,511. AIR-COOLED LOCOMOTIVE-CONDENSER. FREDRIK LJUNGSTRÖM, Brevik, Lidingön, Sweden, assignor to Aktiebolaget Ljungström Angturbin, Stockholm, Sweden, a Corporation. Filed Jan. 7, 1920. Serial No. 350,012. 2 Claims. (Cl. 257—25.)

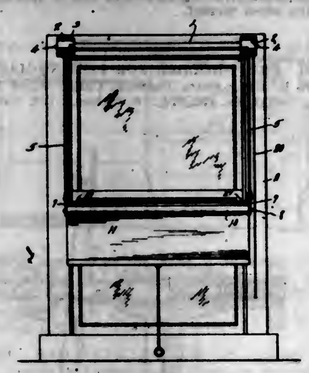


1. In an air-cooled locomotive-condenser the combination of a receptacle arranged to receive steam from the steam engine, an air cooled condenser placed outside said receptacle and connected with the same, and fans adapted to drive the air through the condenser and to bring it into contact with the walls of the receptacle.

1,392,512. SHADE-ROLLER SUPPORT. JOHN E. MCCLOSKEY, Johnstown, Pa. Filed Jan. 10, 1920. Serial No. 350,501. 4 Claims. (Cl. 156—27.)

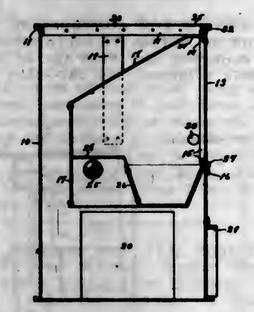
3. A device of the character described, including an upper spring roller, fixedly mounted casings receiving the ends of the upper spring roller, cords connected to the ends of the spring roller, a lower shade roller, bracket plates suspended by the before mentioned cords and supporting the shade roller, a detent mounted upon one of the before mentioned casings, means coöperating therewith to lock the upper spring roller against action, a detent releasing

lever mounted upon the said casing at a point between its ends, one end thereof being formed with an arm which is



adapted to engage the detent to move the latter into inoperative position, and a pull member connected to the other end of the lever for operating the same.

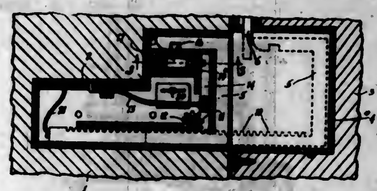
1,392,513. HOG-WATERER. WILLIAM A. MCCOLLOUGH, Webster City, Iowa, assignor to W. A. McCollough & Sons, Inc., Webster City, Iowa, a Corporation of Iowa. Filed Jan. 19, 1920. Serial No. 352,468. 2 Claims. (Cl. 119—73.)



1. A stock waterer, comprising a housing formed with a lateral drink opening, means for normally closing said drink opening, a tank rigidly mounted in said housing and accessible through said opening, a valve-controlled inlet pipe entering said housing and tank, and a drinking pan mounted in said tank and removable and replaceable through said drink opening, said pan being formed with openings for the passage of water thereto from said tank, the rear wall of said pan being spaced from the rear wall of the tank to provide space for the inner end of said inlet pipe, the rear wall of said pan being formed at its top with a rearwardly extending flange overlying the inner end of said inlet pipe.

1,392,514. LOCK. WISDOM MCGILL, Waco, Tex. Filed Feb. 15, 1921. Serial No. 445,090. 3 Claims. (Cl. 70—14.)

1. A lock of the character described, comprising a bolt with a substantially U-shaped formation on one end and a notch in the formation, the shank of the bolt provided with teeth meshing with a pinion rotated by a pin to move the bolt outward and inward in the body of the lock, a vertically disposed bolt under spring tension for locking the U-shaped bolt in locking position, a horizontally arranged



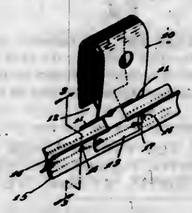
bolt for securing the vertical bolt out of engagement with the U-shaped bolt, and auxiliary means for securing the U-shaped bolt in locked position.

1,392,515. DEVICE FOR GUIDING, CLEARING, AND TENSIONING YARN. JOHN O. MCKEAN, Westfield, Mass., assignor to Foster Machine Company, Westfield, Mass., a Corporation of Massachusetts. Filed Apr. 12, 1921. Serial No. 460,636. 14 Claims. (Cl. 28—20.)



2. In a tension device, a removable and reversible grid forming a skeleton yarn support, a gravity operated disk normally resting on said support and having an axially arranged depending lug projecting between the branches of the grid, and guiding means for causing the yarn to contact with the said lug.

1,392,516. PHOTO-FILM CLIP. LOUIS F. MCKELVEY and JOHN A. BRANDENBURGER, Indianapolis, Ind. Filed Jan. 3, 1921. Serial No. 434,473. 4 Claims. (Cl. 24—259.)

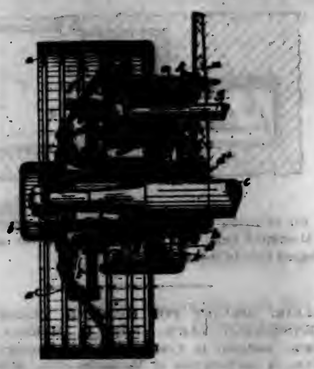


1. A photo-film clip, comprising a spring carrying member, two jaws carried by said member and spring-pressed toward each other thereby, said two jaws being curved with their convex sides toward each other so that they engage substantially along a line, said two jaws being provided with one or more registering pins and holes arranged on such line of engagement.

1,392,517. DRIVE FOR MOTOR-VEHICLES. ALFRED F. MASUAY, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 15, 1919. Serial No. 290,120. 2 Claims. (Cl. 74—7.)

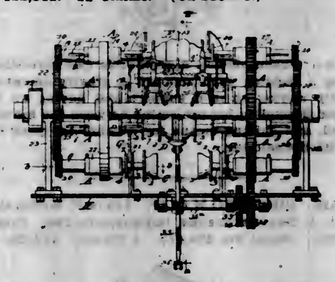
1. In combination with the wheel and dead axle of a motor vehicle, driving mechanism for the wheel comprising a spur gear mounted rotatively on the axle independent of

the wheel, a driving pinion in mesh with the gear, a casing inclosing the spur gear and mounted non-revolubly on the



axle independent of the wheel, a housing formed in the casing to support the driving pinion, and a positive but flexible connection between the pinion and the wheel.

1,392,518. FRUIT-PITTING MACHINE. GEORGE R. PARANTEAU, Simi, Calif. Filed Sept. 21, 1920. Serial No. 411,841. 12 Claims. (Cl. 146—6.)



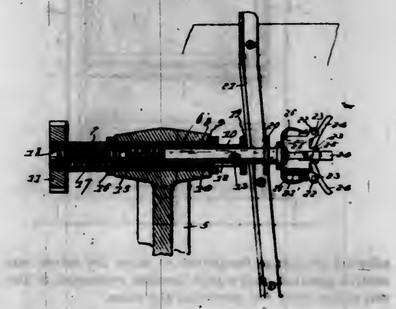
11. In a fruit pitting machine, yieldable coacting fruit grasping members, means for moving the said members into operative relation with a knife, and means for simultaneously shifting the fruit grasping members in corresponding directions.

1,392,519. KNIFE FOR FRUIT-PITTING MACHINES. GEORGE R. PARANTEAU, Ventura, Calif. Filed Mar. 16, 1921. Serial No. 452,873. 6 Claims. (Cl. 146—6.)



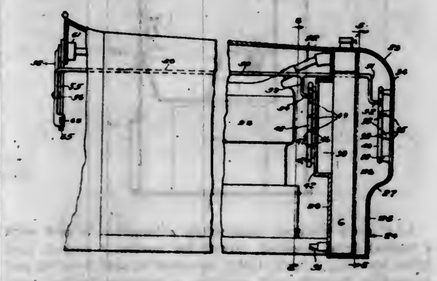
1. In a knife for fruit pitting machines a shank having a curved blade terminating in a substantially horizontally disposed portion, the last mentioned portion being single and terminating in a dual blade having a space between the cutting edges thereof.

1,392,520. FRUIT-HOLDER FOR PITTING-MACHINES. GEORGE R. PARANTEAU, Ventura, Calif. Filed Mar. 16, 1921. Serial No. 452,874. 6 Claims. (Cl. 146—6.)



4. In a fruit carrier for pitting machines, a head, fingers extending approximately radially of and pivotally mounted on the head between the ends of said fingers, means for mounting the head for axial movement, and means for holding the fingers normally open.

1,392,521. DEVICE FOR CONTROLLING THE TEMPERATURE OF AUTOMOBILE-RADIATORS. ROBERT L. PATE, Springfield, Mo. Filed Apr. 30, 1919. Serial No. 293,867. 4 Claims. (Cl. 257—132.)

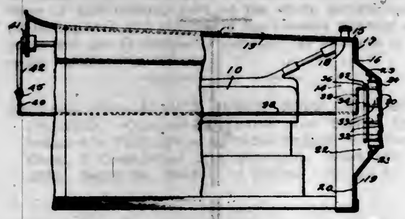


4. The combination with the radiator of a motor vehicle, of a casing adapted to receive the radiator and having front and rear sections, a portion of the front and rear sections being offset to provide enlarged chambers at the front and rear of the radiator and sets of pivoted ventilators arranged within said chambers and adapted to be swung in opposite directions.

1,392,522. DEVICE FOR CONTROLLING THE TEMPERATURE OF AUTOMOBILE-RADIATORS. ROBERT L. PATE, Springfield, Mo. Filed May 20, 1919. Serial No. 298,519. 5 Claims. (Cl. 257—132.)

2. In apparatus of the character described, a sheet to cover one side of an automobile radiator, a chamber carried by the sheet and provided with a main opening and having its material at the main opening rolled to

form a hollow flange, a heat insulating lining arranged upon one side of the sheet and projecting into the hollow



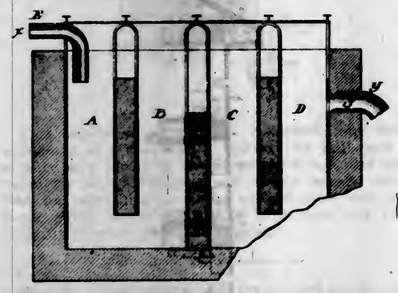
flange to be engaged by the same, a plurality of shutters arranged within the opening and connected with the hollow flange, and means to move the shutters.

1,392,523. RAILWAY-CARRIAGE OF LARGE CAPACITY. GUSTAVE PERRIER and GUSTAVE JOLIVET, Paris, France. Filed Mar. 7, 1919. Serial No. 281,302. 8 Claims. (Cl. 105—157.)



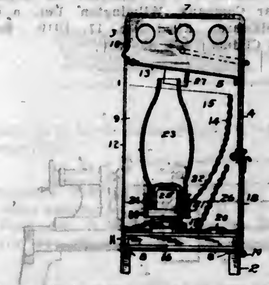
1. In a railway carriage, the combination of a platform mounted at each end upon a group of separate trucks adapted to travel on a plurality of approximately parallel tracks with each track comprising parallel lines of rails, the trucks of each group being arranged to travel in parallel succession on said tracks, and yielding means connecting each group of trucks with the superposed end of the platform to transmit the load from the platform to the trucks and to permit lateral and longitudinal displacement of each group of trucks relative to the platform as the trucks follow the curves in their respective tracks.

1,392,524. PROCESS FOR THE PURIFYING AND CLARIFYING OF WATER. MIGUEL PUIGGARI and NESTOR VENEZIA, Buenos Aires, Argentina. Filed Nov. 24, 1917. Serial No. 203,841. 6 Claims. (Cl. 204—25.)



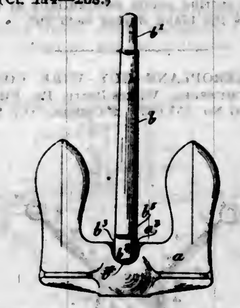
1. Apparatus for purifying water, comprising means for defining a water passage and means for subjecting the water during its flow through said passage to the action of an intensely stressed electric field under conditions producing cataphoresis.

1,392,525. OIL-HEATER. GEORGE F. RHENOR, Mercer, Pa. Filed July 18, 1919. Serial No. 311,405. 1 Claim. (Cl. 126—97.)



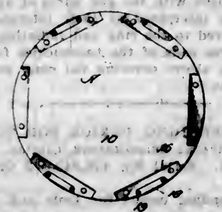
In an oil heater, a casing having an open front, a sheet-metal reflector extending upwardly and rearwardly opposite the opening in the front and having a hole therein, an oil-receptacle slidable into the casing from the back thereof and carrying a burner adapted to enter the said hole, a chimney for the burner insertible on the burner in front of the reflector, a removable filler cap at the rear portion of the receptacle, and a screen between the filler-cap and the opening.

1,392,526. ANCHOR. PATRICK J. RYAN, New York, N. Y. Filed Jan. 21, 1921. Serial No. 438,855. 4 Claims. (Cl. 114—208.)



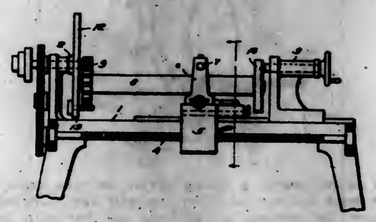
1. A stockless anchor, comprising an anchor-head and a detachable shank, the anchor-head having a central socket and the shank having a head to enter the socket freely, the head and the socket respectively having interengaging devices formed thereon to prevent accidental separation of the shank and anchor-head and to permit the ready separation thereof when desired.

1,392,527. EXTENSION-TABLE. FILIPPO SANTORO, Holyoke, Mass. Filed June 16, 1920. Serial No. 389,468. 9 Claims. (Cl. 45—9.)



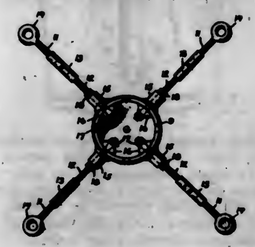
1. The combination with a circular table top of filler blocks shaped for coöperation with said circular top to produce an angular table top.

1,392,528. METHOD OF AND MEANS FOR GENERATING MECHANICAL ELEMENTS. HENRY SCHMICK, Williamsport, Pa., assignor to Schmick Screw and Gear Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 11, 1919. Serial No. 344,265. 8 Claims. (Cl. 82—5.)



1. A method of generating mechanical power transmitting elements of the continuously rotating type, consisting in rotating the blank element upon its axis and swinging it through a path eccentric to the cutter, and uniformly changing the relative positions of said blank element and cutter while maintaining the cutter at the successive cutting points substantially at right angles to the axis of the blank during each cut.

1,392,529. AEROPLANE-GUY-WIRE CONNECTION. FRANCIS SCHUSSLER, Wilkes-Barre, Pa. Filed Feb. 10, 1920. Serial No. 357,637. 2 Claims. (Cl. 244—81.)



1. In combination with the guy wires of an aeroplane, an annular ring interposed at their intersecting point, turnbuckles secured to the ring and radiating therefrom, eyelets at the free ends of the turnbuckles for receiving the guy wires, a sleeve covering the ring, and a casing inclosing the ring.

1,392,530. SUSPENDING DEVICE FOR TOOLS AND THE LIKE. HARRY SHELDOMRIDGE, Clinton, Ind. Filed June 17, 1921. Serial No. 478,343. 3 Claims. (Cl. 248—5.)

1. In a suspending means for tools and the like, a hanger, a cable operating thereover, a weight suspended from one end of the cable, a guide through which the cable is movable, the said guide being diagonal to the perpendicular, a clamp carrying the said guide and engaging the opposite run of the cable, means for securing the said clamp to the cable, the said weight having a guide formed therein, the said cable extending through



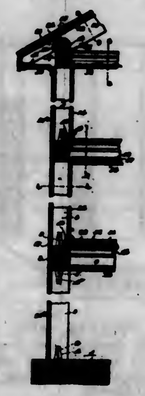
the guide of the weight, and implement supporting elements on the said cable below the weight.

1,392,531. SUITCASE-LOCK. ERNEST H. SHAFF, Grand Haven, Mich. Filed Dec. 4, 1919. Serial No. 342,490. 3 Claims. (Cl. 70—5.)



2. In a device of the class described, a hasp plate; a hasp pivoted to the plate; a spring strip extended along the hasp and engaged at one end with a part of the plate, the strip being fashioned at its opposite end into a hollow integral keeper independent of the hasp; means for securing the strip to the hasp at a point adjacent to the keeper; a casing having an opening receiving the keeper; and a latch movable in the casing and coöperating with the keeper.

1,392,532. REINFORCED-CONCRETE BUILDING. JOHN THOMAS SIMPSON, Newark, N. J. Filed Apr. 23, 1919. Serial No. 292,211. 5 Claims. (Cl. 72—1.)



1. A building comprising pre-cast reinforced concrete studs and floor beams there being recesses in the studs,

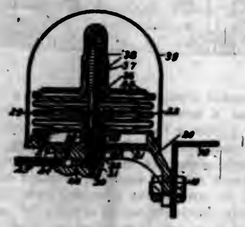
a field cast reinforced girt engaging the extremities of the studs and beams, said girt extending entirely around the building, pre-cast, reinforced wall slabs secured to the surfaces of and forming part of the studs, reinforcements projecting into and grouted in the recesses whereby such slabs will act as flanges to increase the strength of the studs.

1,392,533. INFLATABLE FABRIC BOAT AND BED OR CUSHION. CHARLES F. SMYTH, New Haven, Conn., assignor to Connecticut Aircraft Company, New Haven, Conn., a Corporation of Connecticut. Filed July 16, 1920. Serial No. 396,794. 5 Claims. (Cl. 9—2.)



1. A device of the character described comprising an outer rectangular inflatable frame portion composed of permanently connected side cylinders and end cylinders, flexible cone-shaped partitions disposed within said cylinders and sub-dividing the same into air compartments for inflating and deflating said compartments, and a flexible bottom surrounded by said cylinders and permanently secured thereto between the upper and lower surfaces thereof.

1,392,534. HYDROCARBON-MOTOR. LYLE K. SNELL, Detroit, Mich., assignor to Cadillac Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 1, 1916. Serial No. 134,516. 10 Claims. (Cl. 137—53.)



1. A regulator comprising a collapsible side wall, a stationary end wall, and a moving end wall, said stationary wall having an intake port and an outlet port, a valve for said outlet port, and means on said movable wall for controlling the action of said valve, said means being adjustable in relation to said valve and having laterally movable connection therewith.

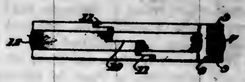
1,392,535. COMPOSITE ARTICLE INCLUDING PHENOLS AND FORMALDEHYDE AND METHOD OF MAKING SAME. WILLIAM D. STEVENSON, Pittsburgh, Pa. Filed June 18, 1919. Serial No. 305,095. 8 Claims. (Cl. 91—70.)

4. A composite non-laminated article composed of an integral fabric body in which the weaving extends in three directions to produce a substantial thickness to the



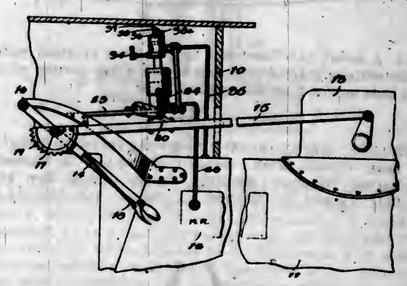
fabric, said fabric being saturated with a hard plastic composition.

1,392,536. PISTON-RING. WILLIAM W. SYFERT, Tulsa, Okla., assignor of one-half to C. A. Cooper, Tulsa, Okla. Filed Apr. 5, 1919. Serial No. 287,785. 3 Claims. (Cl. 74—109.)



3. A piston ring comprising a supporting body having a peripheral groove, a packing of relatively soft resilient material set into said groove, said ring carrying projections at the bottom of said groove adapted to engage the packing material and hold it in position.

1,392,537. SAFETY DEVICE FOR THROTTLES. WILLIAM WHITE SYKES, South Richmond, Va. Filed Mar. 26, 1921. Serial No. 455,888. 5 Claims. (Cl. 116—70.)

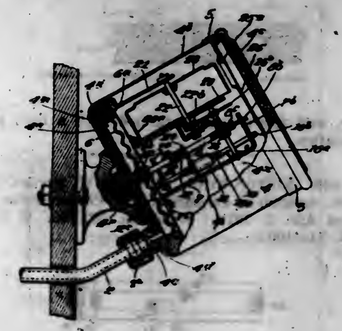


1. The combination with a self-propelled vehicle having a throttle and an air brake apparatus including a main reservoir, of signal means for indicating a fall of pressure in the main reservoir below the safety point, said means being normally controlled by the pressure in the said reservoir and including elements operable in conjunction with the throttle when the latter is closed and elements operable independent of the throttle when the latter is open.

1,392,538. PNEUMATIC LIQUID-SUPPLY-TANK GAGE. PERCIVAL S. TICE, Chicago, Ill. Filed Sept. 2, 1920. Serial No. 407,747. 8 Claims. (Cl. 73—54.)

1. In combination with a liquid supply tank, means for indicating the liquid contents thereof, comprising a pressure-communicating tube leading from the bottom of the liquid-containing space of the tank; a pressure-gage device comprising a chamber having a yielding wall, said tube leading to said chamber and comprising *en route* thereto a substantially horizontal part located above the high liquid level of the tank, said chamber having an ex-

haust connection whereby partial vacuum may be produced therein for elevating liquid from the tank to said hori-



zontal part of the conduit, and a capacity registering device connected to the yielding wall of the chamber.

1,392,539. SWEATBAND. CARL M. TIPOGRAPH, New York, N. Y. Filed Apr. 29, 1921. Serial No. 465,524. 3 Claims. (Cl. 2—32.)



1. A sweat band having a body portion provided with substantially pointed ends and having a flap portion with its ends spaced from said pointed ends.

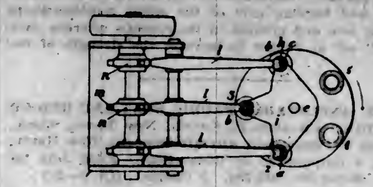
1,392,540. REINFORCED SPRING. GUGLIELMO TREMOLADA, Detroit, Mich., assignor of one-half to Michael Baroni, Winnipeg, Manitoba, Canada. Filed Nov. 14, 1917. Serial No. 202,026. 2 Claims. (Cl. 152—18.)



1. A vehicle tire providing a tread portion having a plurality of resilient members incorporated thereinto each comprising a core of flexible nonelastic material having its ends interwoven with the fabric of the tire and a wire spring coiled around its medial portion.

1,392,541. PROCESS AND APPARATUS FOR THE MANUFACTURE OF CRUCIBLES. LOUIS VESSIAUD, Paris, France, assignor to Etablissements Jacob Holtzer, Paris, France, a Corporation. Filed July 9, 1919. Serial No. 309,694. 5 Claims. (Cl. 25—22.)

1. A process for forming crucibles consisting in placing the material, from which the crucible is to be formed, in a mold member and successively introducing mandrel members of successively increasing sizes into the material in the mold, and moving one of said members relatively



to the other member while a mandrel is in engagement with said material for causing said material to be compressed.

1,392,542. HAND-EMBROIDERY NEEDLE. ALBERT F. VORCE, Ludington, Mich. Filed Apr. 26, 1920. Serial No. 376,460. 1 Claim. (Cl. 112—80.)



A needle, a tubular handle therefor, a gage adapted to limit the penetration of the needle, the handle provided with stops to vary the position of the gage, the gage passing through the handle and engaging the stops from the interior of the handle.

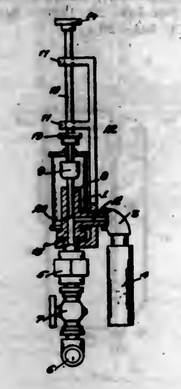
1,392,543. ELECTRICALLY-OPERATED MACHINE FOR SCRAPING IRREGULAR WOODEN SURFACES. ISAAC A. WATROUS, Bridgeport, Conn. Filed Apr. 9, 1921. Serial No. 460,070. 2 Claims. (Cl. 144—119.)

1. In a surface scraper, a body having a vertical propelling handle, a motor on the body, a switch having a vertical part adjacent the handle for controlling the motor and for engagement by the fingers of the hand of the operator which gripe the handle, a vertically movable spring tensioned scraper carrying member borne by the body, means to drive said member from the motor, a scraper having resilient teeth carried by said member, and a swiveled handle connected to said member for guiding the device and for regulating the degree of engagement of the scraper with the surface by mere depression of the handle and upon release to allow the spring to instantly raise the scraper out of engagement with the surface.

1,392,544. ELECTROPNEUMATIC VALVE. EUGENE WIET and FOREE CHITTENDEN, San Francisco, Calif., assignors to National Safety Appliance Company, San Francisco, Calif., a Corporation of California. Filed Mar. 19, 1918. Serial No. 223,301. 1 Claim. (Cl. 137—139.)

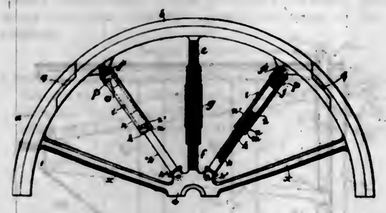
In combination with a valve casing of substantially T formation provided with an open ended bore having parallel side walls and formed intermediate of its length

with a lateral outlet communicating with said bore, a valve controlled pipe connected to the lower end of said bore for supplying fluid under pressure to said bore, a longitudinally movable valve having parallel side walls received at one end in the upper end of said bore, said valve being of a diameter to have a sliding fit within the bore with the walls of said bore and capable of movement therein against fluid pressure in said bore to extend below said fluid outlet to close the same, the outer end of said valve being formed with a ball end, a frame ex-



tending parallel with said casing and provided on its upper portion with laterally extended ported guide arms overlying the upper open end of said bore, a longitudinally movable operating stem extended through said ported arms in alinement with said valve and provided at its lower end with a socket for engaging said ball to provide a flexible connection between said valve and stem, and electrically operated releasable means associated with said stem for retaining the same in closed position at one end of its longitudinal movement in one direction.

1,392,545. ROAD-WHEEL FOR VEHICLES. SAMUEL OSWALD WILLIAMS, Northumberland, England. Filed Mar. 31, 1921. Serial No. 457,229. 1 Claim. (Cl. 152—20.)



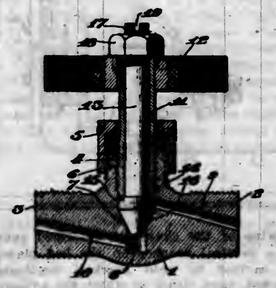
In a road wheel for vehicles, a rim section adapted to be movable inward relatively to the remaining portion of the rim and radially adjustable spoke members supporting said movable rim section and designed to provide for such movement thereof, certain of said spoke members comprising elements rigid with the rim and wheel hub, and oppositely threaded for engagement by a nut, and others of said spoke members comprising elements pivoted to the rim and wheel hub and telescopically arranged within a sleeve, and means for detachably connecting said sleeve and elements.

1,392,546. APPARATUS FOR CLEANING EGGS. COLONEL J. WILLIAMSON, San Francisco, Calif., assignor to Williamson Machine Company, San Francisco, Calif., a Corporation of California. Filed Apr. 26, 1921. Serial No. 464,655. 11 Claims. (Cl. 146—14.)



2. An apparatus for the described purpose, the same comprising an egg-runway consisting of parallel disposed rotary and fixed brushes, a carrier for advancing eggs stream-wise through said runway and in contact with the surfaces of the brushes, and means associated with said runway for receiving such of the eggs as are crowded out of the stream of eggs as advanced through the egg runway.

1,392,547. VALVE. PRIOR F. WILLIS, St. Louis, Mo. Filed Feb. 1, 1917. Serial No. 145,888. 2 Claims. (Cl. 251—37.)



2. The specific valve construction shown, the same comprising the integral body portion 1 and nipple extension 4, having the bore through said extension 4, screw-threaded, as at 6, and terminating with the valve-seat 7, the sleeve 11 screw-threaded to fit the threads 6 of said bore and having a manipulating handle, as at 12, thereon, the stem 13 rotatable and longitudinally slidable in said sleeve and having the valve-head 14 at its inner end to coöperate with said valve-seat 7, the outer end portion of said stem having the slot 19 therein and being screw-threaded, as at 17, the nut 18 on said screw-threaded portion of the stem whereby to clamp said sleeve 11 against the valve-head 14, and also to be moved outward from contact with said sleeve so as to coöperate with said slot 19 in the stem to afford a pocket for the reception of a key to rotate said stem 13 in said sleeve 11, and the packing gland 5 on said nipple extension through which said sleeve 11 and the valve-head 14 are entirely withdrawable.

1,392,548. TAG-HOLDER. JOSEPH WM. WUENSCH, St. Paul, Minn. Filed July 18, 1921. Serial No. 485,512. 3 Claims. (Cl. 40—26.)

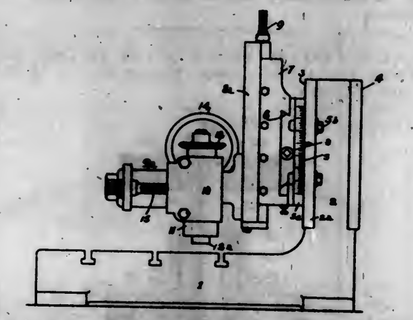
3. A card or tag holder comprising a loop of wire, the ends of which are normally spaced from each other, a coil formed near one end of said loop, the portion beyond the coil being extended at an angle thereto and toward the other end of the loop, a coil formed on the end of said extended portion, the other end of the loop being adapted

to be closed over said first end and secured between the convolutions of said first coil, said extension being



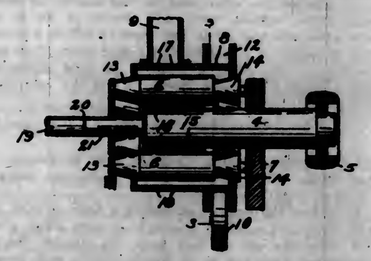
adapted to be arranged adjacent said other end with said other end positioned between the convolutions of said second coil.

1,392,549. MACHINE FOR SCARFING BOILER AND SHIP PLATES, CUTTING INCLINED KEYWAYS, OR OTHER PURPOSES. JOHN WILLIAM BARNES, Cheshire, England. Filed Nov. 17, 1919. Serial No. 338,535. 3 Claims. (Cl. 90—15.)



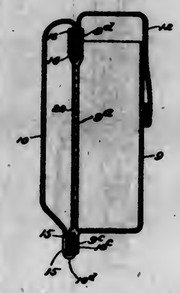
1. Apparatus of the character described comprising a bed plate, a vertical bracket on the bed plate, a guide adjustably carried by said bracket, duplicate facings on said bracket, upon either of which the adjustable guide may be positioned, a pair of relatively adjustable slides carried by said guide, a milling attachment carried by one of said slides, and means for driving said milling attachment.

1,392,550. ROLLER-FILLER FOR BEARINGS. LEONARD BARTLETT, Boston, Mass., assignor, by direct and mesne assignments, to Reliance Machine & Specialty Co., Boston, Mass., a Corporation of Massachusetts. Filed Oct. 22, 1919. Serial No. 332,556. Renewed Jan. 17, 1921. Serial No. 437,965. 7 Claims. (Cl. 18—5.)



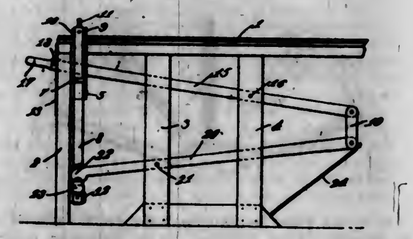
3. A pressure filler for oilless bearing comprising a holder adapted to receive a perforated tube, an arbor adapted to fit said tube, and close the interior of said perforations, means to insert lubricating material in the perforations in said tube, a plurality of rollers adapted to apply pressure to said lubricating material after entering said perforations, and means to adjust said rollers to apply pressure in varying degrees.

1,392,551. WOVEN CARRIER EQUIPMENT. FRANK R. BATCHELDER, Worcester, Mass., assignor to Mills Belt Company, Worcester, Mass., a Corporation of Massachusetts. Filed Jan. 22, 1920. Serial No. 353,318. 10 Claims. (Cl. 224—23.)



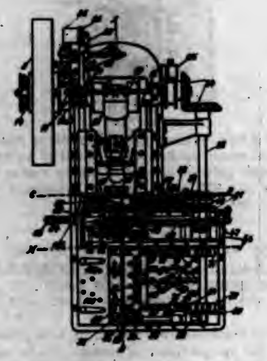
6. In pocketed carrier equipment, an accessory carrier or pocket comprising a pocket-piece having a pocket thereon and formed with a divided top margin, and a strip or band of web material having one portion thereof formed into a cover or flap for the pocket, another portion formed into a suspensory loop at the back, and an intermediate portion tucked in and fastened between the walls of said divided top margin.

1,392,552. CLOTH-CLAMP. JOSEPH EVERT BERRY, Carthage, Mo. Filed July 18, 1920. Serial No. 396,032. 5 Claims. (Cl. 164—79.)



1. The combination with a cutting table, of a clamping member tiltably and slidably connected thereto and including a clamping bar and a cross bar, a lever overhanging the cross bar, means for actuating said lever, and a spacing block pivotally connected to the lever and movable to position between the lever and the cross bar.

1,392,553. ELECTRICALLY-HEATED STAMPING-MACHINE. JEAN BILL, Legnano, Italy. Filed Apr. 4, 1918. Serial No. 226,629. 11 Claims. (Cl. 219—3.)



1. An automatic metal stamping machine for stamping from metal bars, having an electromagnet which electrically controls the operation of the different members, including the stamping members, and the gradual heating of the bar to be stamped.

1,392,554. MAGNETO-ELECTRIC IGNITION-MACHINE. FRÉDÉRIC BILLON, Solothurn, Switzerland, assignor to Firm Scintilla, Solothurn, Switzerland. Filed Nov. 2, 1918. Serial No. 260,910. 1 Claim. (Cl. 171—209.)



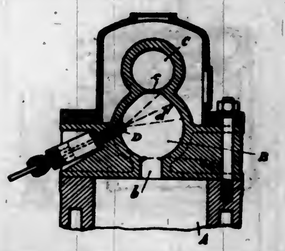
The combination with a permanent magnet of a series of magnetisable plates insulated from one another and each encircling a pole of the said magnet, said plates jointly constituting a pole piece and severally providing short circuited windings about the poles of the said magnet.

1,392,555. STARTING INDUCTION-MOTORS. JOHANNES BRUNCKEN, Cologne-Bickendorf, Germany. Original application filed Jan. 13, 1920, Serial No. 351,240. Divided and this application filed Dec. 2, 1920. Serial No. 427,835. 1 Claim. (Cl. 172—120.)



The method of starting an induction motor having two separate sets of primary windings, which consists in successively connecting said windings in series in mesh, in parallel in star, in parallel one in star and one in mesh, in parallel in mesh, and finally shifting the field produced by one winding relatively to the field produced by the other through 180°.

1,392,556. SEMIDIESEL OIL-ENGINE. JEAN BAPTISTE COTTARD, Paris, France, assignor to Société de Moteurs à Gaz et d'Industrie Mecanique, Paris, France, a Limited Joint-Stock Company of France. Filed Jan. 4, 1921. Serial No. 434,930. 1 Claim. (Cl. 123—32.)



In an internal combustion engine of the Diesel type, the combination of an engine cylinder having a non-cooled cylinder head chamber open to said cylinder through a narrow passage, an ignition chamber open to said cylinder head chamber through a passage of smaller cross-section than said first-named passage, means for injecting liquid fuel at such inclination and thickness of jet as will confine the injected liquid in the interior of the upper portion of said cylinder head chamber, fuel-distributing means controlling said injecting means whereby fuel is injected in two stages and of unequal amounts, the first of which stages taking place about the lower dead center of the piston stroke to introduce the smaller igniting charge to be ignited by accumulated heat in said ignition chamber and the second of which taking place at or near the upper dead center of the piston stroke to introduce the working charge to be ignited by said ignition charge.

1,392,557. INSULATION FOR ARMATURES. JASPER F. CULLIN, Detroit, Mich., assignor, by mesne assignments, to William J. Hartwig, Detroit, Mich. Filed Dec. 29, 1919. Serial No. 348,087. 2 Claims. (Cl. 171—206.)

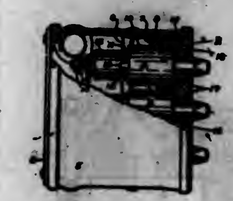


1. A cylindrical armature core provided with evenly spaced longitudinal grooves, armature widings comprising metal bars bent on themselves substantially midway their length to constitute two sections, a pair of sections of two windings being positioned in each groove, one inside of the other, means to insulate the windings in each groove from each other and from the core, and a strip of insulating material woven in and out between the inner sections of the windings adjacent one end of the armature and extending generally circumferentially of the armature.

1,392,558. ELECTRIC COUPLING. WILLIAM A. DARRAH and REX G. AVERILL, Mansfield, Ohio, assignors to The Ohio Brass Company, Mansfield, Ohio, a Corporation of Ohio. Filed Aug. 20, 1917. Serial No. 187,068. 21 Claims. (Cl. 173—332.)

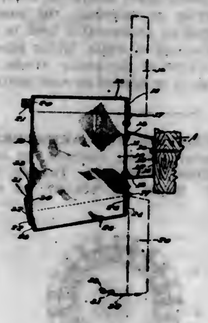
5. An electric coupler for connecting a train line circuit comprising a metallic housing, a contact making

unit independently removably arranged in the housing, said unit comprising an insulation casing, a live terminal and a separate movable contactor mounted and inclosed within the casing, and resilient means interposed between



the contactor and terminal and tending to normally hold the movable contactor away from the terminal, but yielding under pressure to permit movement of the contactor into engagement with the terminal and means for retaining the unit in position in the housing.

1,392,559. RECEPTACLE. SUSAN E. DE LONG, Fellows, Calif. Filed Dec. 11, 1919. Serial No. 344,094. 2 Claims. (Cl. 220—18.)



1. In a receptacle, the combination of a body, the forward side of said body being relatively longer than the rear side of said body, a hinged cover for said body having a relatively deep depending border flange thereon, a bottom cover hingedly connected to the rear side of said body, and forming a closure for the lower end of said receptacle, said bottom cover having a relatively deep upstanding border flange thereon, said bottom cover when in closed position upon said bottom inclining toward the forward side thereof, and a bracket upon the rear side of said receptacle, said bracket being relatively deeper than the flanges upon said top and bottom covers, and adapted to be mounted upon a support, to permit unimpeded opening and closing of said covers.

1,392,560. TROLLEY. MANUEL D. DOMINGUEZ, New Orleans, La. Filed Feb. 10, 1921. Serial No. 444,021. 6 Claims. (Cl. 191—80.)

1. A trolley comprising in combination, a harp having side pieces, a trolley wheel revolubly mounted in said side pieces, a vertical shaft journaled on each side piece, inwardly projecting members carried by said shafts, said members closing the space above the trolley wheel, and re-



silliently yielding means to keep said members in normal position.

1,392,561. CLEVIS ANTIRATTLING AND PIN-RETAINING ATTACHMENT. CHARLES HUGH DUFFY, Chevy Chase, Md. Filed June 17, 1920. Serial No. 389,699. 14 Claims. (Cl. 74—17.)



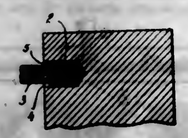
6. An attachment for clevises including a spring member having two arms, one arm having an opening to receive a clevis-pin and having a part of said arm adapted to engage the eye-member of a clevis to press the same transversely against the yoke-member of a clevis, the other arm of the spring member having an opening to receive a clevis-pin and including means adapted to engage the head of a clevis-pin to retain the pin against longitudinal movement.

1,392,562. RAILWAY-TIE AND RAIL-FASTENER. CHARLES ELSWORTH ESTABROOK, Springport, Ind. Filed May 13, 1921. Serial No. 469,228. 1 Claim. (Cl. 238—111.)



A railway tie comprising a pair of hollow anchor members of substantially pyramidal form adapted to support rails at the apex thereof, rail engaging projections formed on the anchor members at points intermediate the sides thereof so as to engage the outer edge of the rail base, recessed portions formed on the anchor members at opposite sides of the rails and projections, fastening members extending through the anchor members at the recessed portions and adapted to engage the opposite edges of the rail bases, and means for adjustably connecting the anchor members.

1,392,563. BRUSH CONNECTION. HOWARD BLAINE EYNON, Wellsville, N. Y. Filed Nov. 9, 1920. Serial No. 422,768. 8 Claims. (Cl. 171—326.)



6. A carbon brush having an opening, and a flexible conductor received in the opening and an independent packing of pointed pieces of metal in the opening about the conductor for engaging the conductor and the wall of the opening.

1,392,564. METHOD OF PRODUCING SOLIDIFIED SOLUBLE DISINFECTANT. AXEL FRANCK-PHILIPSON, Chicago, Ill. Filed Mar. 15, 1918, Serial No. 222,580. Renewed Mar. 20, 1920. Serial No. 367,428. 4 Claims. (Cl. 167—3.)

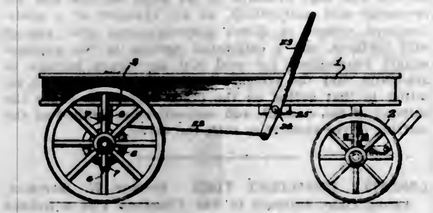
1. The method of producing a disinfectant of the character set forth which consists in commingling tar oil with an alkali to neutralise the free acids thereof, and also with a fat and saponifying or partially saponifying the latter, and thereupon condensing the mixture to effect solidification thereof when cold.

2. The method of producing a disinfectant of the character set forth which consists in commingling tar oil with an alkali to neutralise the free acids thereof, and also with a fat in the presence of heat and agitation to saponify the fat and condense the mixture to effect solidification thereof when cold.

3. The method of producing a disinfectant of the character set forth which consists in commingling tar oil with an alkali to neutralise the free acids thereof, and also with a fat and saponifying or partially saponifying the latter, and thereupon condensing the mixture to effect solidification thereof when cold, the tar oil contained in the finished compound being in excess of the fat.

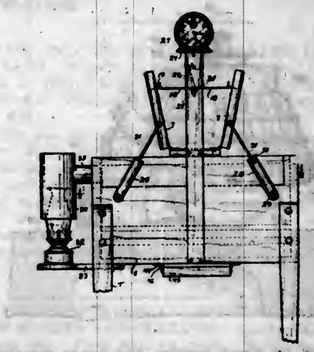
4. The method of producing a disinfectant of the character set forth which consists in commingling tar oil with an alkali to neutralise the free acids thereof, and also with a fat and saponifying or partially saponifying the latter, and thereupon condensing the mixture to effect solidification thereof when cold, the tar oil constituting substantially seventy-five per cent. of the finished compound.

1,392,565. PROPULSION MEANS FOR VEHICLES. WILLIAM H. FRENCH, Detroit, Mich. Filed Oct. 29, 1920. Serial No. 420,375. 4 Claims. (Cl. 208—38.)



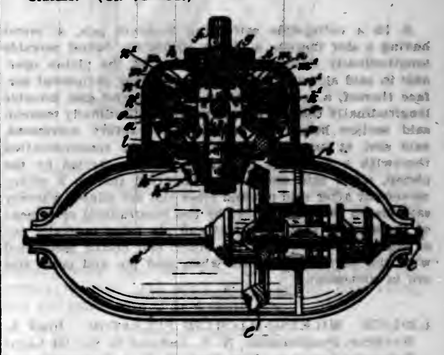
1. In a propulsion mechanism for a vehicle, having an axle, a wheel drum, a casing loose on said drum and adapted to impart movement to said wheel drum, a stationary closure for said casing, means in said casing attached to said stationary closure adapted for rotating said casing in one direction, said drum, casing and closure being concentrically disposed about the vehicle axle, and means adapted for rotating said casing in an opposite direction.

1,392,566. INCUBATOR. WILLIAM C. PETTS, Milwaukee, Wis. Filed Feb. 12, 1917. Serial No. 148,096. 2 Claims. (Cl. 119—40.)



2. In an incubator, the combination with the incubator body having a hinged door, means for releasably securing the door in open position, time controlled means for releasing said securing means, and means for checking the descent of the door and preventing jarring on the closing thereof.

1,392,567. PLANETARY DRIVING-GEAR. MERRILL C. HOZINS, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed May 5, 1919. Serial No. 294,903. 4 Claims. (Cl. 74—34.)

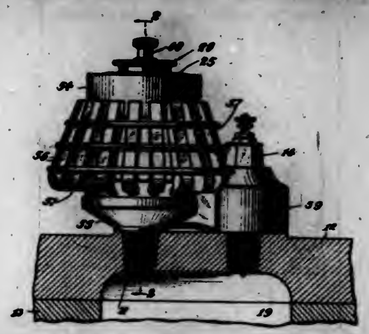


1. Planetary gearing comprising in combination a power shaft, a rotatable spider including a shaft section and radial arms thereon, planetary compound pinions on the arms, a pinion on the power shaft in mesh with one of the pinions of each compound pinion, a nonrotatable sun gear with which the other pinion of each compound pinion meshes, a bearing for the spider shaft carried in the face of the pinion on the power shaft and a second bearing for the spider shaft supported with the sun gear.

1,392,568. ALARM. JOSEPH HORN, West Orange, FERDINAND H. MAY, Montclair, and JOSEF MEILNER, West Orange, N. J. Filed Feb. 26, 1921. Serial No. 448,274. 9 Claims. (Cl. 116—33.)

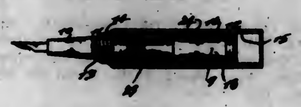
1. An alarm of the kind described comprising a support having an inlet for an actuating fluid, a valve controlling the same, a sounding device carried by said support and arranged to be actuated by said fluid, a housing mounted

upon said support and locking means within said housing whereby said valve is locked against tampering in either



its open or its closed position and means mounted exteriorly upon said housing for actuating said locking means.

1,392,569. SELF-FILLING FOUNTAIN-PEN. EDWARD HUGHES, New York, N. Y. Filed Dec. 17, 1920. Serial No. 431,415. 4 Claims. (Cl. 120—47.)

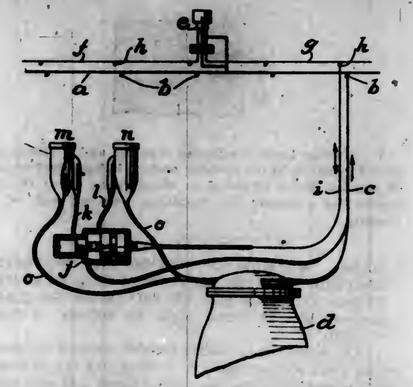


3. In a collapsible self-filling fountain pen, a barrel having a slot therein, a piston within the barrel movable longitudinally thereof, a pin carried by the piston operable in said slot and extending beyond the peripheral surface thereof, a section carried by the barrel and movable longitudinally thereof, having a slot longitudinally thereof, said section being also arranged for rotary movement, said slot at one end thereof having in communication therewith a cross-slot to engage the pin carried by the piston, when said section has imparted thereto a rotary movement after said pin and cross slot are alined, whereby said piston can be operated by the longitudinal movement of the section, said cross slot and pin being normally out of engagement one with the other, and means associated with the barrel to indicate when said pin and cross slot are in alinement.

1,392,570. MILKING-MACHINE PULSATOR. JOHN L. HULBERT, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 30, 1920. Serial No. 413,679. 17 Claims. (Cl. 31—101.)

1. In a milking machine pulsator, in combination, a pulsation member comprising a cylinder, a piston reciprocable therein, and ports and passages, whereby the piston in its movements supplies alternating pneumatic pulsations; and a control member comprising a variable pressure chamber, a cylinder supplied with alternating pulsations from the pulsation member, a piston reciprocable in the control cylinder, ports and passages whereby the control piston in its movements supplies alternating pulsations to operate the pulsation piston, said control piston being, at any instant, under the influence of two or more unbalanced uniform pressures and one gradually variable pressure.

4. In a control member for a pneumatically operatable milking machine pulsator, in combination, a cylinder and a piston reciprocable therein by opposing pneumatic pressures on several areas, means for gradually varying one of said pressures to cause the resultant pressures to change from one tending to retain the piston at one end of the cylinder to one tending to force it to the opposite end.



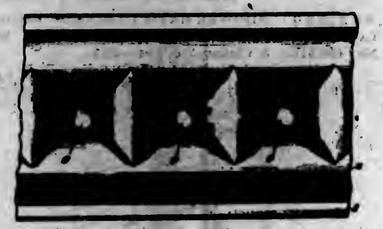
7. In a pneumatically operable milking machine pulsator, two cylinders, a piston reciprocable in each, ports and passages whereby each cylinder reverses pressure connections for the other, the first piston being freely reciprocable, the second piston being, immediately after the movement of the first, under the influence of three or more pressures on as many areas on the opposite ends of the piston, the resultant pressure being opposed to movement, means to gradually vary one of said pressures until the resultant pressure causes movement, and means whereby initial movement of the piston admits air from a high pressure area to a low pressure area to cause a quick completion of the movement.

11. In a control member for a pneumatically operable milking machine pulsator, a cylinder, a piston therein having a plurality of pressure surfaces pneumatic pressure against either of which tends to shift the piston in one direction, means to create an opposing pneumatic pressure preventing such shift and then to reduce said opposing pressure to allow the pressure against one of said surfaces to start said shift, and means causing the last named pressure, after said shift is started, to operate also against the other pressure surfaces, thereby accelerating the shift.

15. In a pulsator for milking machines, a moving element having two surfaces arranged to be acted on by pneumatic pressure, a high pressure supply, a low pressure supply, a valve for admitting low pressure to one surface and high pressure to the other surface and for reversing said connections, an air chamber of a predetermined volume in direct communication with one of said surfaces, and a calibrated opening in the pressure supply connections for said last mentioned surface to gradually vary the pressure in the air chamber with relation to that acting on the other surface to cause the shifting of the element, and connections controlled by the shifting of the element to shift the valve.

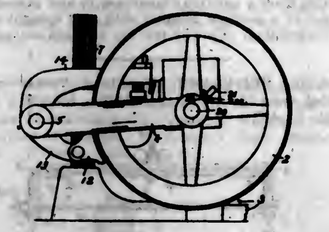
1,392,571. RESILIENT TIRE. ROBERT H. BOWMAN, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 21, 1918. Serial No. 223,888. 1 Claim. (Cl. 152—1.)

A vehicle tire comprising a solid ring of elastic material having spaced circumferential tread sections of substantially semicircular cross section, and a circumferential series of transverse ribs disposed between the tread sections and extending from top to bottom thereof and integral therewith and of substantially semicircular shape in cross section, the tread sections and ribs defining substantially pyramidal cavities constituting suction cups having their sides convexed longitudinally to permit flow of the tire material under compression and expansion to obtain resiliency and to dislodge accumulations from the



side walls of the cups, the bottoms of the cavities being dished and the side walls merging into the bottom walls in reflex curves, the tread faces of the circumferential sections and cross ribs lying in the same circumferential surface of the tire and constituting the tread thereof.

1,392,572. BRAKE FOR LINEAL-MEASURING REGISTERS. EMIL EK, Portland, Me., assignor to Adde & Company, a Corporation of Maine. Filed Mar. 2, 1920. Serial No. 362,724. 4 Claims. (Cl. 33—142.)



1. In a rotary meter for measuring lumber and other like stock, the combination of the support, an arm pivoted to said support by its rear end, a friction wheel journaled on said arm, a rotary indicating device on said arm, axially in line with said wheel and arranged to be operated by the rotation of the wheel shaft and a brake for said wheel arranged to be brought into action when the wheel is not supported by the stock.

1,392,573. REGISTER FOR LINEAL MEASURING. EMIL EK, Portland, Me., assignor to Adde & Company, a Corporation of Maine. Filed Mar. 2, 1920. Serial No. 362,725. 1 Claim. (Cl. 235—144.)



In a register for lineal measuring, the combination with a grooved shaft of a number wheel composed of a soft metal wheel body having a shaft opening and an offset opening communicating laterally with said shaft opening, a hard metal washer at each end of said wheel body having a shaft opening and an offset opening, a pawl block extending through said offset opening and having its ends seated and guided within the openings in said washers, said pawl block being adapted to engage the shaft groove and means for uniting said washers in said wheel body.

1,392,574. PROCESS OF MAKING PLASTIC CALCINED GYPSUM. WARREN E. EMLEY, Washington, D. C. Filed Feb. 3, 1921. Serial No. 442,313. 11 Claims. (Cl. 222—4.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

3. The process of increasing the plasticity of calcined gypsum which consists in grinding the calcined gypsum to eliminate the water content during the grinding operation, preventing the escape of the said water content during the grinding step, and continuously keeping the above treated gypsum in contact with the water thus eliminated and permitting thew ater thus eliminated to be reabsorbed before ceasing the grinding operation.

1,392,575. SUPPORTING AND STRETCHING BRACKET FOR SHADES AND CURTAINS. LAURA GLADISH, St. Louis, Mo. Filed Mar. 18, 1920. Serial No. 366,831. 1 Claim. (Cl. 156—24.)



An improved supporting-bracket, for lace and drapery curtains and a shade-roller; comprising a base-plate from the outer vertical edge and the upper end of which projects a long arm having a bearing for the pintle of a shade-roller; and a short arm extending at right-angles from the inner vertical edge of the said base-plate, at a distance below said long arm, and provided with two parallel inclined open slots which extend downwardly from the upper edge of said short arm.

1,392,576. METHOD OF MANUFACTURING SOLID TIRES. DANIEL E. GOODENBERGER, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 5, 1918. Serial No. 256,933. 20 Claims. (Cl. 154—12.)



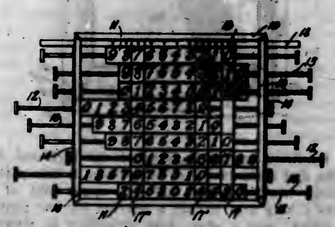
1. In the process of manufacturing articles of rubber or similar material, the step of providing spaced venting elements along which an entrapped fluid may find outlet from the interior of the article during vulcanization.

1,392,577. POST. Leo G. Haasn, Pasadena, Calif. Filed Nov. 15, 1920. Serial No. 424,072. 3 Claims. (Cl. 72—84.)



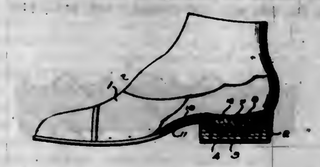
3. In a post, a cement member, a second member, bolts connecting the members, and means coöperating with the bolts to produce buckling of the second member when the bolts are drawn up tight.

1,392,578. EDUCATIONAL APPARATUS. Palmer J. Jones, Port Washington, N. Y. Filed May 7, 1920. Serial No. 379,457. 4 Claims. (Cl. 35—2.)



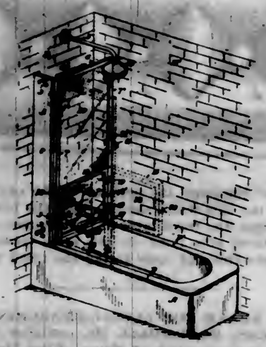
4. Educational apparatus comprising a plurality of horizontally disposed changeable display members, a horizontally adjustable support, means for securing vertical shields to said support at various positions thereon.

1,392,579. SHOE ATTACHMENT. Frank L. Kryder, Akron, Ohio. Filed Dec. 3, 1920. Serial No. 427,967. 2 Claims. (Cl. 36—37.)



1. An insert for shoes, comprising a lining of cushioning material adapted to be arranged within a shoe, a cup-shaped member arranged at the rear of said lining, said lining being shaped to fit said cup-shaped member, said cup-shaped member being provided with a plurality of openings through which said cushioning material extends, the edges of the cup-shaped member being provided with flanges, and a layer of fabric arranged beneath said cup-shaped member, the edges thereof being secured within said flanges.

1,392,580. SHOWER-BATH CABINET. Benjamin Landau, Philadelphia, Pa. Filed Mar. 8, 1921. Serial No. 450,516. 5 Claims. (Cl. 4—26.)



1. The combination with a bath tub, of a fixed upright forming a jamb, a door hinged to said upright and movable from a position transverse to and extending over the tub to a position parallel with said upright and with the longitudinal edges of the tub and against said jamb.

1,392,581. BED-CLAMP. Max Leaf, Youngstown, Ohio. Filed Oct. 25, 1920. Serial No. 419,507. 1 Claim. (Cl. 5—41.)



In a device of the class described, a plate member, a hole centrally located in said plate, two clamping members, U-shaped portions at outer ends of said clamping members, slotted openings at inner ends of said clamping members, a bolt passing through the plate and said slotted openings, openings through the lower ends of said U-shaped portions, a brace and securing bolt extending through said openings, substantially as described.

1,392,582. HOLDER FOR COLLARS. Frank J. Le Clair, Attleboro, Mass., assignor to Freeman-Daughaday Company, Chartley, Mass., a Corporation of Massachusetts. Filed May 17, 1921. Serial No. 470,359. 7 Claims. (Cl. 24—81.)



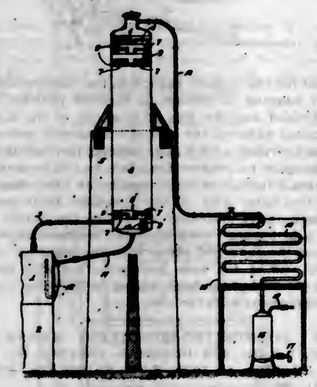
1. A collar holder comprising a gripping device having opposed clamping members and a slide member, said latter member having an opening therethrough adjacent one extremity and an oblique slot extending from the edge of said member to the opening, and an actuating spring having a loop element at one of its extremities passing through said opening.

1,392,583. APPARATUS FOR LOADING ORDNANCE. Hugh Warren Lee and John Windlow Swindale, Newcastle-upon-Tyne, England, assignors to Sir W. G. Armstrong, Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Filed Mar. 22, 1921. Serial No. 454,472. 9 Claims. (Cl. 89—46.)



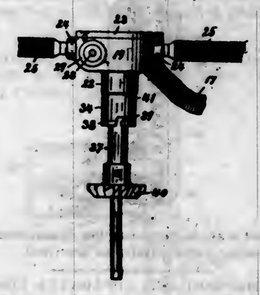
1. In a hoist, a trunk, two independently operated sliders in the trunk, a number of lifting arms pivoted to the sliders, means for raising and lowering the sliders and positively acting means for rocking the lifting arms on their pivots.

1,392,584. ART OF DISTILLING PETROLEUM-OILS. Frank B. Lewis and Thomas S. Cooke, Whiting, Ind., assignors to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed May 7, 1917. Serial No. 166,965. 7 Claims. (Cl. 196—5.)



1. The improvement in the art of cracking petroleum oils by distillation under pressure which consists in passing the mixture of sufficiently cracked and insufficiently cracked vapors continuously produced within the still through a plurality of separated bodies of petroleum oil arranged in series and maintained at temperatures such as to condense all insufficiently cracked fractions but not to condense the sufficiently cracked fractions, and condensing and collecting the sufficiently cracked fractions which escape condensation in the said liquid bodies.

1,392,585. RESEATING ATTACHMENT. Arthur C. Landholm, Springfield, Mass. Filed June 24, 1920. Serial No. 391,378. 5 Claims. (Cl. 90—12.5.)



1. In a reseating attachment, a portable cutting element comprising a casing having an extension, a worm and worm shaft journaled in said casing, a flexible shaft, said worm shaft having a socket in one end for the attachment thereto of one end of the revoluble member of said flexible shaft, a split bushing in said extension to receive the corresponding end of the sheath of said flexible shaft, means to cause said bushing to bind on said sheath, and a worm-wheel and spindle therefor also journaled in said casing, said worm-wheel intermeshing with said worm, and said spindle being adapted to have a cutter connected therewith.

1,392,586. GAME APPARATUS. Hugo Loewenbach, Hartland, Wis., assignor to Automatic Bowling Alley Co., Milwaukee, Wis. Filed Dec. 29, 1919. Serial No. 347,933. 6 Claims. (Cl. 46—54.)



1. In a game apparatus, a supporting floor, a pin disposed on said floor and adapted to be knocked from upright to prone position and to be disposed substantially longitudinally of the floor when in the last mentioned position, a rib disposed transversely of the floor, the pin resting thereon when in prone position, and means coöperating with said rib to move the pin from prone to upright position.

1,392,587. PRESSURE-GAGE. Arthur B. Low, Denver, Colo. Filed June 19, 1920. Serial No. 390,109. 5 Claims. (Cl. 73—111.)

1. A pressure gage embodying a hollow casing forming a chamber that provides an upper internal seat, encompassing a top aperture, and having a bottom closure providing a pressure fluid duct, a valve stem contacting element and a surrounding seating face; a piston in said chamber having a guide stem; an elongated indicator member normally seated freely on said piston, in contiguous association with said guide stem, and operating through said top aperture; compressible retractile means supported by

said piston; and yielding frictional means, supported by said retractile means and forced up thereby against said



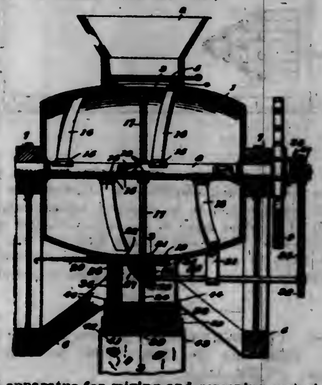
upper internal seat, in encompassing engagement with said indicator member, substantially as described.

1,392,588. METHOD AND APPARATUS FOR MAKING TERNE PLATES. JAMES R. MCELHANEY, Vandergrift, Pa., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Dec. 24, 1920. Serial No. 433,041. 11 Claims. (Cl. 91—12.7.)



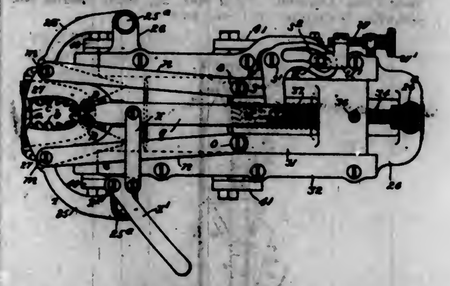
1. The combination with a terne pot, rollers for feeding plates into and out of said pot, and guides for the plates, of a conveyer for receiving plates emerging from said pot, said conveyer being constructed to engage only the longitudinal edges of said plates, and thereby preventing marring the surfaces of the coated plates.

1,392,589. MIXING AND SCREENING DEVICE FOR FERTILIZERS AND THE LIKE. ALFRED M. MARSHALL, Savannah, Ga. Filed Jan. 25, 1921. Serial No. 439,769. 5 Claims. (Cl. 259—10.)



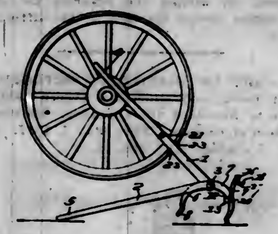
1. An apparatus for mixing and screening material such as fertilizer and the like, comprising a receptacle, a shaft therein, stirring arms on the shaft for mixing the material and means for feeding material to and delivering material from said receptacle, in combination with a screening device located under the delivering means of the said receptacle and comprising a rotatable screen, and means for rotating the same on a vertical axis while the stirring devices of said receptacle are in operation.

1,392,590. LASTING-MACHINE. FRANK W. MERRICK, Boston, Mass., assignor to Union Lock Stitch Company, Boston, Mass., a Corporation of Maine. Filed Sept. 25, 1916. Serial No. 121,925. 29 Claims. (Cl. 12—14.)



1. In a lasting machine, in combination, an end-band or compressor-band, opposite movable lateral supports therefor, and a bar at each end of the said band, said bar having its upper and lower portions in universal joint engagement with the corresponding end of the band and its middle in universal joint engagement with the corresponding support.

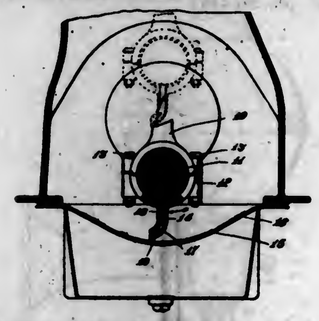
1,392,591. TIRE-TOOL. ORA MOBLEY, Cincinnati, Ohio. Filed Feb. 18, 1920. Serial No. 359,730. 1 Claim. (Cl. 157—6.)



In a tool for the purpose indicated, the combination with a support adapted to assume an inclined position engaging the ground and the hub of a wheel, of an L-shaped plate disposed adjacent the side of the support nearest the wheel and provided with means passing through the plate and the support to connect the plate to the support, said plate having lateral lugs, one engaging on each edge of the support, the latter arm of the L-shaped plate provided with a hook at its extremity to engage the flange of the rim, and a bell-shaped cone rotatably mounted on the lateral arm of the L-shaped plate, with the marginal edge of the larger end of the cone approximating and partially overlying the root of the hook, acting to force the tire upon and in engagement with the rim.

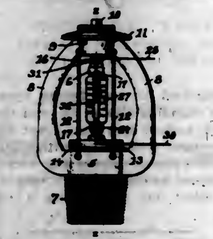
1,392,592. CONNECTING-ROD-OILING MEANS. JOSEPH W. NELSON and ROBERT S. COULTER, St. Cloud, Minn. Filed Mar. 13, 1920. Serial No. 365,378. 2 Claims. (Cl. 184—13.)

1. Means of the class described, comprising a piston or connecting-rod cap provided with a projection arranged on the opposite side of the crank-pin to extend into the dip-trough or oil-pan of the motor during the lower part of the reciprocating stroke of the rod, the projection being provided with a longitudinal passage extending to the connecting rod bearings about the crank-shaft pin, the lower end of said passage terminating in a forwardly disposed inlet orifice adapted to dip up oil from the dip-trough of the oil-pan, and baffle members, secured to opposite sides within said passage, disposed in a direction lengthwise of the passage to provide oil retaining pockets opening upwardly toward the crank-shaft pin end thereof whereby the oil



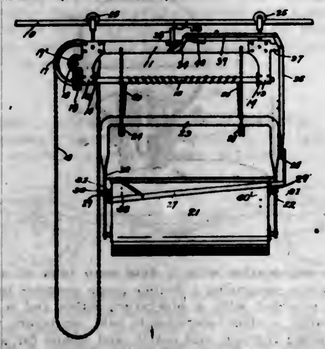
is held against outflow through the inlet orifice but permitted to flow toward the crank-shaft pin when the action of centrifugal force is in reverse direction.

1,392,593. AUTOMATIC SPRINKLER. ROBERT WILKINSON NEWTON, Providence, R. I. Filed Apr. 29, 1920. Serial No. 377,620. 5 Claims. (Cl. 169—38.)



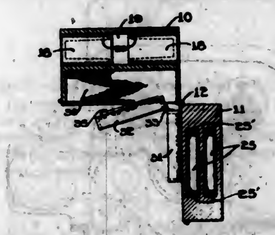
1. An automatic sprinkler having a holder in the form of a strut of glass or other breakable material and interposed intermediate the valve seat and the frame hub, said holder having scales to record the amount and expansion of the material in the holder.

1,392,594. LETTER-CARRIER. ALVIN C. PERKINS, Goodland, Ind., assignor of one-half to Lee R. Perkins, Goodland, Ind. Filed Nov. 8, 1920. Serial No. 422,578. 3 Claims. (Cl. 212—137.)



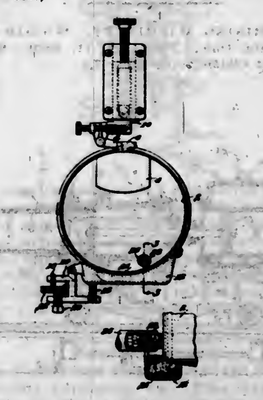
1. In a latch releasing mechanism for an elevated carrier bucket, the combination with a track having a beveled projection, and a bucket suspended from the track by a bail pivoted to said bucket, of a rod slidably mounted on one side of the bucket, a latch carried by one end of the bucket and normally engaged with the bail, and means operable upon engagement with said beveled projection for moving said rod to disengage the latch from the bail.

1,392,595. COMBINATION FURNITURE. JAN PIFKO, Elisabethport, N. J. Filed Mar. 31, 1921. Serial No. 457,310. 3 Claims. (Cl. 5—18.)



1. An article of furniture comprising a pair of casings hinged together along one side, and presenting outwardly opening compartments, one of said casings having a compartment facing on the side thereof, adjacent the other casing, and a bed frame hinged along one side to the adjacent wall of the other casing, and adapted to be accommodated in the said compartment when the two casings are swung together.

1,392,596. SKIVING-MACHINE. EUGENE J. RAY, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 30, 1920. Serial No. 355,094. 4 Claims. (Cl. 69—0.5.)

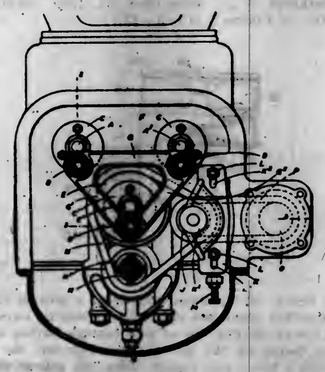


1. A skiving machine having, in combination, a tubular knife, a feed roll, a presser foot, a movable carrier for presenting a moistening pad to the edge and outer surface of the knife, and a spring acting on the carrier to press a pad carried thereby against the periphery of the knife.

1,392,597. MECHANISM FOR THE DRIVING OF CAM-SHAFTS OF INTERNAL-COMBUSTION ENGINES. HARRY RALPH RICARDO, London, England. Filed Feb. 12, 1919. Serial No. 276,567. 8 Claims. (Cl. 123—96.)

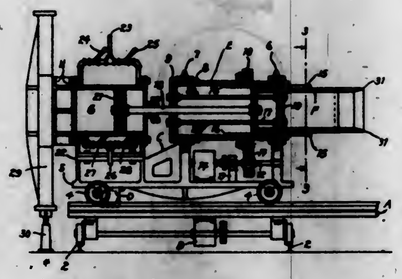
1. In mechanism for driving the cam shafts of an internal combustion engine the combination of two cam

shafts each of which carries at one end a crank pin, an idle toothed wheel provided with a similar crank pin, a triangular connecting rod by means of which these three crank pins are coupled together, a second idle toothed wheel having a double set of teeth, a toothed wheel mounted on the engine crank shaft, a driving chain which passes



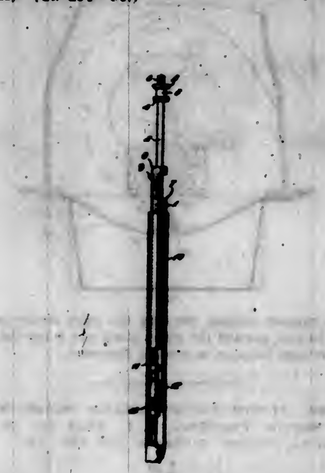
over the first idle wheel over the first set of teeth of the second idle wheel and over the toothed wheel on the crank shaft, a shaft serving to drive auxiliary mechanism, and means for driving this auxiliary shaft off the second set of teeth of the second idle toothed wheel as set forth.

1,392,598. MINING MACHINERY. WILLIAM W. ROBBINS, Lorain, Ohio. Filed Oct. 11, 1920. Serial No. 415,971. 3 Claims. (Cl. 262—7.)



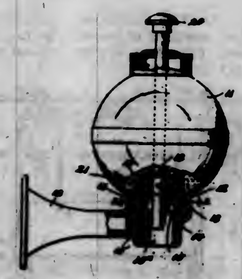
1. In a mining machine, the combination of a piston, a cylinder therefor and hydraulic means for operating said piston, a cylindrical mining tool on the end of said piston, and operated thereby back and forth, a cylinder within which said boring tool is adapted to reciprocate in a telescopical manner, bearings for said cylinder, a spline connection between the tool and the cylinder, whereby any rotary motion of the cylinder is communicated to the tool; a motor for rotating said cylinder whereby said tool may also be rotated.

1,392,599. FISHING-TOOL. ALBERT F. ROSE, Tulsa, Okla. Filed Apr. 15, 1920. Serial No. 374,091. 10 Claims. (Cl. 294—90.)



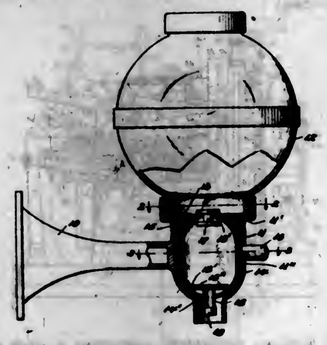
1. In a fishing tool for well boring apparatus, a long spear, an object engaging slip on one end thereof, a shank on the other end, a short spear, an object engaging slip on one end of the short spear coöperating with the slip on the long spear, and means coöperating with the long spear and the short spear holding the two spears in close relation to each other but permitting a relative sliding movement.

1,392,600. LIQUID-SOAP DISPENSER. WILLIAM H. ROSE, Jersey City, N. J. Filed Oct. 19, 1920. Serial No. 417,965. 7 Claims. (Cl. 221—94.)



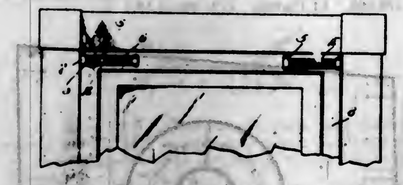
1. The combination with a fluid soap tank of a discharge device comprising a flexible pump chamber having an inlet provided with a non-return valve and a self-closing outlet, a stem connected to said non-return valve and extending through said outlet, and means for applying pressure to the wall of the pump chamber to eject fluid from said outlet.

1,392,601. SOAP-DISPENSER. WILLIAM H. ROSE, Jersey City, N. J. Filed Dec. 8, 1920. Serial No. 429,113. 6 Claims. (Cl. 221—94.)



1. The combination with a fluid soap tank of a discharge device comprising a flexible pump chamber having an inlet provided with a non-return valve and an outlet, and a flexible member extending through said outlet and constituting a valve therefor.

1,392,602. ADJUSTABLE WINDOW-CURTAIN BRACKET. EMIL C. ROSENCRANS, Evansville, Ind. Filed July 2, 1920. Serial No. 393,669. 4 Claims. (Cl. 156—24.)



4. The combination with a window frame, of spaced supporting members permanently secured thereto and each provided with a series of transverse slots, brackets adjustable longitudinally with respect to the supporting members and each including a base portion having a depending locking tongue adapted to enter the slots in the supporting member, and an upstanding shank terminating in a shade roller supporting head, said brackets each having a limited lateral tilting movement with respect to the adjacent supporting member, and locking devices carried by the shanks of the brackets and movable into engagement with the supporting members for locking said brackets against tilting and longitudinal movement with respect to the supporting members.

1,392,603. SPRING SUSPENSION SYSTEM. ALBERT F. SHOAR, New York, N. Y. Filed Dec. 11, 1920. Serial No. 429,841. 11 Claims. (Cl. 267—28.)



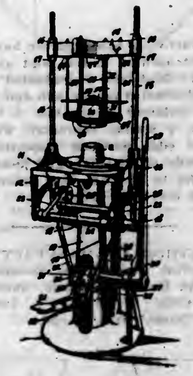
1. In a spring suspension system, the combination with a subframe fulcrum attached directly to the axles or housing thereof of the front and rear supporting wheel sets, of a fulcrum spring set hinged on said sub-frame for free vertical oscillation and positioned approximately midway between said front and rear wheels and adapted for attachment to the beams of a suspended chassis, and springs positioned at the fore and rear ends of said chassis.

1,392,604. JEWELRY. CHARLES G. SMITH, Cambridge, Mass. Filed Aug. 22, 1919. Serial No. 319,290. 3 Claims. (Cl. 240—1.)



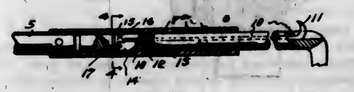
2. A jewel comprising a transparent crystal having a polished top surface to reflect light rays, a recess entering the body of the crystal adjacent the base, and a transparent hermetically sealed tube located within the recess and containing a radioactive substance suspended in gas under a high pressure.

1,392,605. HAT-SHAPING APPARATUS. LESLIE STEVENS, Glen Ridge, N. J. Filed Sept. 14, 1917. Serial No. 191,371. 36 Claims. (Cl. 223—31.)



1. In a shaping machine, the combination with a press having opposed supporting members and means for moving one of said members toward and from the other, of a form carried by one of said supporting members, and shaping means carried by the other supporting member comprising both a shaping member of flexible and porous material and means for tensioning said shaping member over said form to stretch thereon the material being shaped.

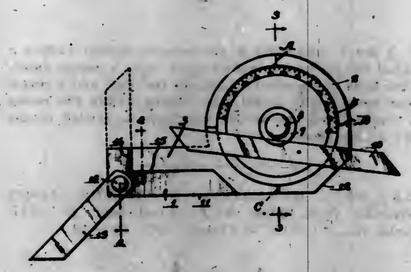
1,392,606. FASTENER FOR ADJUSTABLE WINDOWS. JAN STOCH, Uniontown, Pa. Filed Jan. 15, 1921. Serial No. 437,376. 1 Claim. (Cl. 292—266.)



A device of the class described comprising, in combination with a window pivotally attached to a sash, means for varying the degree of opening of said window comprising a member pivotally attached to said window, a sleeve rigid with said member, said sleeve having its in-

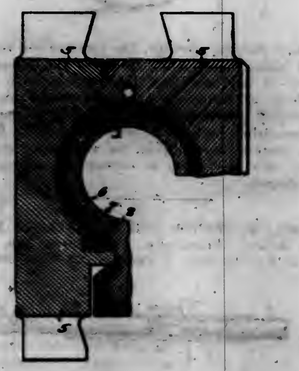
terior surface notched, a second member slidable within said first member, a channel in said second member having a rod slidable therein, a recess near the end of said second member, a lug slidably mounted in said recess and having a nose extending therefrom, means for urging said lug against said sleeve, said rod being adapted to move said lug against the force of said means when said rod is moved inward in said channel.

1,392,607. BEVEL-PROTRACTOR. CHARLES STRAUB, Chicago, Ill. Filed Dec. 23, 1920. Serial No. 432,753. 5 Claims. (Cl. 33—102.)



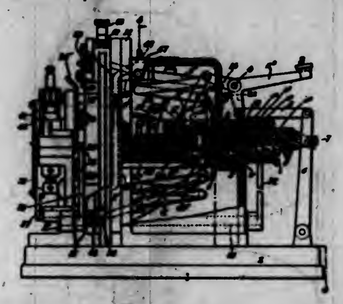
1. In a protractor, a base member having a fixed hub with a threaded opening therein and an annular recess surrounding said fixed hub, a graduated dial disposed in the recess and journaled on the hub and having a groove across its face adjacent to the hub, a blade slidable in the said groove, a washer concentric with the hub and having opposite edge portions respectively overlapping parts of the blade of the dial, and means engaging the threaded opening in the hub for clamping the washer against the said overhung parts.

1,392,608. METHOD OF MANUFACTURING TIRES. JOHN C. TUTTLE, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 7, 1919. Serial No. 328,964. 9 Claims. (Cl. 18—56.)



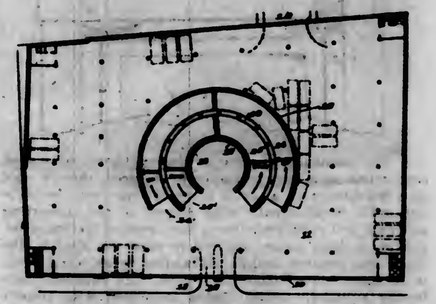
1. The method of manufacturing tires comprising the steps of forming a tire casing from fabric and rubber on a core, placing the tire in a mold, and causing the rubber under heat and pressure to flow toward the beads of the tire.

1,392,609. METHOD AND MEANS OF SELECTION. CHARLES R. UNDERHILL, New Haven, Conn. Filed Nov. 19, 1915. Serial No. 62,270. 58 Claims. (Cl. 177—380.)



1. A selecting mechanism, comprising a stock of unit elements of different kinds, means for integrating from said stock of unit elements different combinations, an operated means, the operation of which is rendered effective by certain of said elements, and selective means for either restoring the unit elements to said stock or causing them to again affect the operated means.

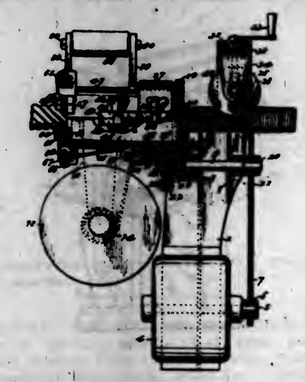
1,392,610. AUTOMOBILE-HANDLING DEVICE FOR GARAGES AND THE LIKE. CLINTON J. WARREN, Winchester, Mass. Filed Feb. 19, 1919. Serial No. 278,094. 14 Claims. (Cl. 20—1.13.)



1. A device for the handling of automobiles between the ground and other stories of a building, comprising the combination, with a building having a plurality of stories, other than the ground story, of a way comprising a series of coöperating inclined ways arranged in succession from floor to floor, adapted in grade, course and surface for automobiles to traverse them, the several ways of the series being arranged, in respect to each other and to the several floors, with the inclines of the succession approaching and leaving a floor having their connections with that floor grouped together.

1,392,611. SERVING-MACHINE. VIRGIL P. ADAMS, Bremerton, Wash. Filed Sept. 9, 1920. Serial No. 409,185. 8 Claims. (Cl. 28—6.)

1. In a serving machine, a frame movable longitudinally along the material being served, a mechanism bodily revoluble concentrically about and on a radius from the material being served and carried by the frame and letting out the serving material, said mechanism including means extending radially of the mechanism for closely engaging the convolutions of the serving material and at the same



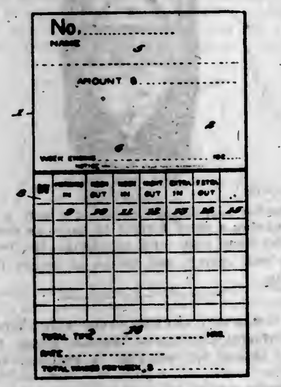
time advancing the machine along the material being served, and a trolley mechanism for suspending the frame on the material being served.

1,392,612. PALATAL BAR. HUGO ADERER, East Orange, N. J., assignor to J. F. Jelenko & Co., New York, N. Y., a Firm composed of Jesse F. Jelenko and Hugo Aderer. Filed Apr. 22, 1921. Serial No. 463,465. 4 Claims. (Cl. 32—12.)



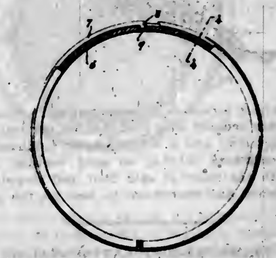
1. A palatal bar having integral ends, said ends comprising prongs, said prongs being curved outwardly from the plane of the bar, and said prongs having corrugations thereon.

1,392,613. TIME-CARD, PAY-ENVELOP, AND DAILY-PRODUCTION RECORD. MARCUS ADLER, Chicago, Ill. Filed Dec. 9, 1920. Serial No. 429,410. 2 Claims. (Cl. 283—1.)



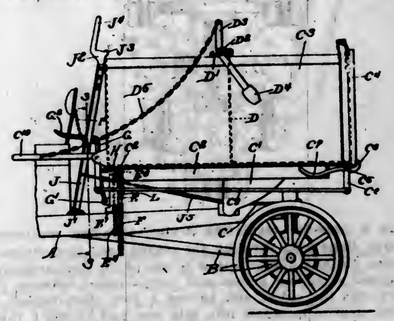
1. A record-keeping system comprising an envelop having on one face a series of rulings which divide the same into a commercial form having appropriately designated spaces of size to receive entries of an employee's work, hours, and having on its reverse face a series of rulings which divide the same into a commercial form having appropriately designated spaces of a size to receive entries of an employee's time-work data, there being on one of the faces a series of rulings to form appropriately designated spaces of size to receive entries of the total time, rate, and weekly wage-total noted in the aforementioned spaces on both faces of the envelop; the envelop being open at one end to receive and hold the employee's earnings, as noted in said last-mentioned spaces.

1,392,614. PISTON-RING. PER AUGUST ANDERSON, New York, N. Y. Filed Aug. 12, 1919. Serial No. 317,017. 2 Claims. (Cl. 74—100.)



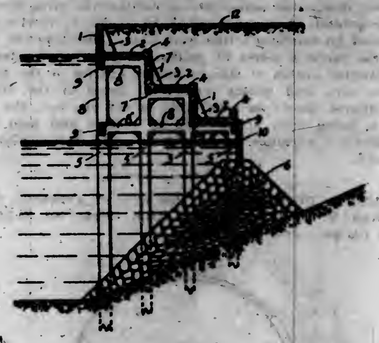
2. The combination of a piston ring having an annular groove formed in its outer peripheral surface and provided with an aperture, an annular packing wire sprung into said groove and projecting radially outward beyond said ring for engagement with the inner surface of an engine cylinder to constitute a packing, said wire and ring being elastic in opposite directions and a projection on said wire extending into said aperture whereby circumferential movement of said wire relatively to said ring is prevented.

1,392,615. BODY SUPPORT AND LOCK. WILLIAM C. ANTHONY, Streator, Ill., assignor to Anthony Company, Streator, Ill., a Corporation of Illinois. Filed Apr. 17, 1920. Serial No. 374,558. 11 Claims. (Cl. 298—38.)



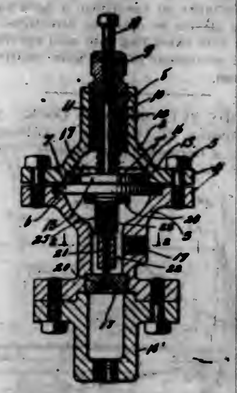
1. The combination with a vehicle of a dumping body mounted thereon and adapted to be tipped with relation thereto, of a locking and supporting assembly adapted to lock and support the body in the untipped position and to support the body in the tipped position, said assembly including a pivoted locking member adapted normally to hold the body in the untipped position, and a second pivoted member adapted to support the body in the tipped position, each of said pivoted members mounted upon said vehicle alone.

1,392,616. WHARF-WALL AND THE LIKE. TAGGART ASTON, Bellingham, Wash. Filed Mar. 18, 1921. Serial No. 453,331. 8 Claims. (Cl. 61—30.)



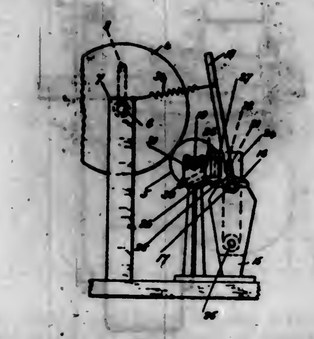
1. In a wharf structure in combination, a wharf floor; a substructure beneath said floor, having vertical members set in the ground; and a stepped-down bulkhead, having horizontal members bearing on said vertical members, engaged with the front of said floor and stepping diagonally downward and shoreward to bear on the ground.

1,392,617. PRESSURE-REGULATING VALVE. EDWIN J. AUGUSTIN, Wauwatosa, Wis., assignor of one-third to George Bauer and one-third to Otto Gray, Milwaukee, Wis. Filed Mar. 6, 1920. Serial No. 363,752. 1 Claim. (Cl. 50—22.)



In a pressure regulating device, a casing, an imperforate diaphragm dividing the casing into two compartments, an inlet and an outlet to one of the compartments, a spider extending across said compartment between the inlet and the outlet and having a bore therethrough, a valve stem reciprocable into said bore and having a valve at one end adapted to seat on the outside of said inlet, a head mounted on the other end of the valve stem and adjustable longitudinally thereof, said head being adapted to engage the diaphragm, an expansile spring acting between the head and spider to urge the head into engagement with the diaphragm and simultaneously urge said valve onto its seat to close said inlet, and means on the other side of the diaphragm for urging the diaphragm and consequently the head and valve in the opposite direction.

1,392,618. LEVER MECHANISM. NORMAN AYERS, McArthur, Ohio. Filed Aug. 5, 1921. Serial No. 489,995. 4 Claims. (Cl. 74—26.)



1. The combination, with a bearing, and a shaft having one end portion journaled therein; of a supporting standard provided with two bearings, a lever pivoted to to the standard between the said two bearings and provided with a slot, a crankshaft journaled in the said two bearings and provided with a crank which engages with the slot and affords a means for moving the said lever pivotally, and a bearing for the other end portion of the first said shaft pivotally connected with the free end portion of the said lever.

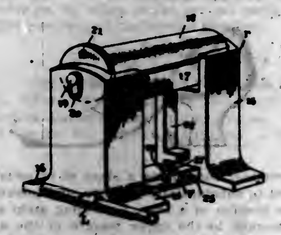
1,392,619. CASING-PLUG. REUBEN C. BAKER, Coalinga, Calif., assignor to Baker Casing Shoe Company, Coalinga, Calif., a Corporation of California. Filed Sept. 29, 1919. Serial No. 327,281. 6 Claims. (Cl. 166—13.)



5. A plug for well casings including a body, a gasket on the body having a skirt formed to have its free edge lie between the body ends and to engage the bottom end edge of a well casing, and means to secure the gasket to the body.

1,392,620. SAFETY APPARATUS FOR TRAINS OR CARS. WILLIAM O. BATTS, Wilmot, Kans. Filed July 2, 1921. Serial No. 482,120. 4 Claims. (Cl. 246—171.)

1. A safety apparatus for cars comprising a plurality of units adapted to support a car for rolling movement on the rails of a track when the car wheels are derailed, brake actuating means forming a part of and operable by each of said units, and yokes adapted to be secured to the car



and in embracing relation to the wheel truck for the purpose described.

1,392,621. MACHINE FOR SHAPING MATRICES. LOUIS H. BUCHMAN, Battle Creek, Mich., assignor to Duplex Printing Press Company, Battle Creek, Mich., a Corporation of Michigan. Filed Aug. 5, 1919. Serial No. 315,485. 20 Claims. (Cl. 34—16.)



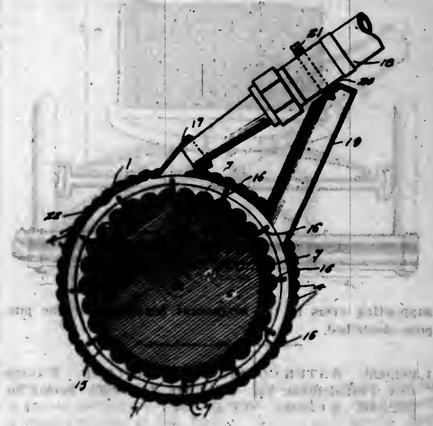
10. Apparatus for shaping and drying matrices for casting stereotype plates; comprising a stationary form, a flexible resilient metal sheet having one end connected with the form and adapted to be wrapped around it to bend a matrix inserted between the sheet and form, means for holding the sheet in wrapped position to retain the bent matrix in place, and means for supporting the sheet and limiting its separation from the form when released.

1,392,622. PRICE-TICKET HOLDER. GEORGE A. BERRY, Excelsior Springs, Mo., assignor of one-third to W. J. Marsh, St. Louis, Mo., and one-third to Bernard C. Baynes, Excelsior Springs, Mo. Filed Feb. 21, 1919. Serial No. 278,397. 2 Claims. (Cl. 40—11.)



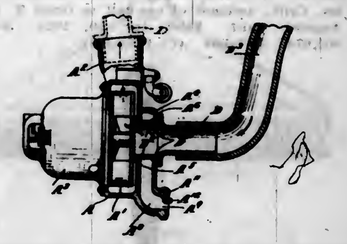
1. A ticket holder formed from a single strand of resilient wire and comprising a shank, a bend at the upper end of the shank, an arm depending from said bend and having its lower end portion normally urged toward the shank, a lateral bead at the lower end of said arm, a loop member rising from said bend, and a lateral gripping arm extending from the upper end of said loop member across the vertical plane of the shank and the first-mentioned arm.

1,392,623. AUTOMOBILE-BRUSH. RAYMOND L. CHEATHAM, Richmond, Va. Filed Oct. 30, 1920. Serial No. 420,653. 1 Claim. (Cl. 15—37.)



A brush comprising a casing, a stationary cleaning element carried by said casing, a rotatable cleaning element carried by said casing, a nozzle carried by said casing and arranged at the inclination to the casing, fins carried by the rotatable cleaning element, a handle secured to the casing and inclining toward the nozzle, a hose clamp carried by said handle and adapted to be attached to a hose for supporting the same in alinement with the nozzle and away from the casing.

1,392,624. VACUUM-CLEANER. GEORGE CLEMENTS, Chicago, Ill., assignor to Clements Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed June 14, 1911. Serial No. 633,011. 10 Claims. (Cl. 15—60.)

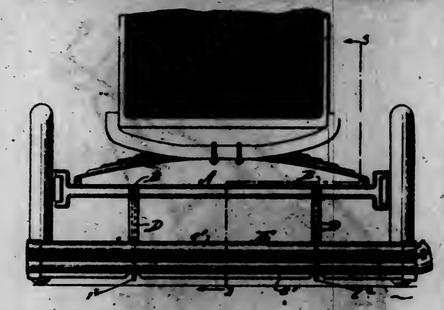


2. A vacuum cleaner comprising a pump chamber, a suction chamber, having an outlet opening to the pump chamber, a suction nozzle and an inlet opening, and a removable closure therefor, said openings adapted to receive a connecting inlet tube.

1,392,625. VEHICLE-FENDER. MORRIS B. DIMIN, Brooklyn, N. Y. Filed July 29, 1920. Serial No. 399,670. 4 Claims. (Cl. 293—36.)

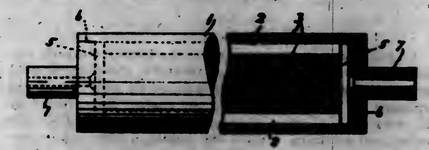
1. In combination with a vehicle fender of the character designated, means for effecting the vertical adjustment of the buffer bar comprising segmental brackets secured to a fixed part, buffer bar supporting arms pivotally

connected with said brackets and with the buffer bar, said buffer bar, and retractile latch means for coupling the



supporting arms to the segmental brackets, for the purpose described.

1,392,626. WATER-COOLED GLASS-ROLLER. WALTER COX, Philadelphia, Pa. Filed Jan. 19, 1920. Serial No. 352,580. 3 Claims. (Cl. 49—34.)



1. A water cooled glass roller consisting of a metal cylinder having a circular row of spaced parallel water channels extending axially through its body and arranged near its surface and providing between and around them a metal core and solid metal supports and having at the ends inlet and outlet water connections communicating with said channels in multiple, substantially as described.

1,392,627. TOOL-HANDLE. JOHN P. DOMAN, Los Angeles, Calif., assignor of one-half to Orval T. Deal, Los Angeles, Calif. Filed Apr. 30, 1921. Serial No. 465,674. 5 Claims. (Cl. 145—61.)



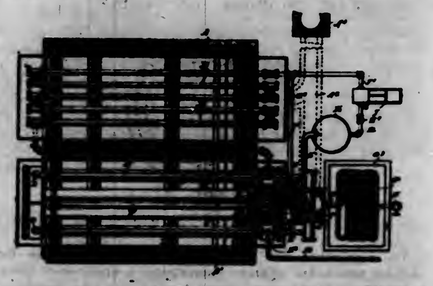
5. A handle for chisels and the like, provided with an elongated opening in one end thereof, a screw in said opening to receive the blow of a hammer, said screw being of less diameter than the opening, and having its lower end embedded in the material of the handle, and wood adhering cement or the like filling the space between the screw and the wall of the opening.

1,392,628. SHOE-RETAINER. JOHN ARTHUR DESCHESNES, Hillsdale, Mich. Filed Mar. 1, 1919. Serial No. 279,907. 1 Claim. (Cl. 36—58.5.)



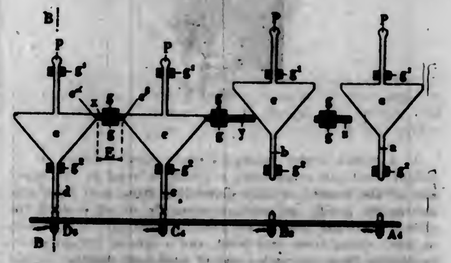
A shoe retainer comprising a sheet of material adapted to be curved to substantially U-shape, and inserted within the counter portion of a shoe, a yielding strip secured at its upper margin to the upper margin of the sheet, and throughout a portion of its length, the ends of said sheet extending beyond the ends of the yielding strip and affording means for securing the sheet within a shoe.

1,392,629. PROCESS OF CONVERTING HYDROCARBONS. CARBON P. DUBBS, Wilmette, Ill. Filed Mar. 19, 1919. Serial No. 283,673. 9 Claims. (Cl. 196—25.)



1. A process of converting relatively heavy into lighter hydrocarbons, consisting in passing a stream of oil through a zone where the oil is heated to a cracking temperature but without substantial vaporization, passed thence to and through a zone where vaporization takes place, removing the vapors, subjecting them to reflux condensation, returning reflux condensate for further cracking, removing the residue, after said vaporization, from the system without permitting intermingling of any substantial portion thereof with the oil in the heating zone and maintaining a pressure upon the material during distillation.

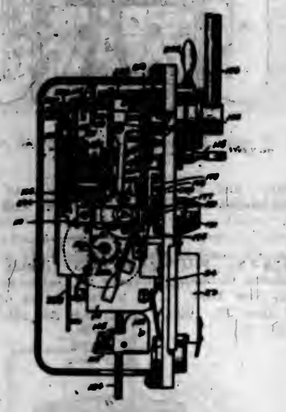
1,392,630. INTERLOCKING DEVICE. AXEL EGNELL, Paris, France. Filed Sept. 15, 1920. Serial No. 410,565. 20 Claims. (Cl. 246—134.)



1. In an interlocking device, control members movable according to guide lines, each capable of taking a series

of positions on these lines, cut out members movable according to other lines, a cut out member being interposed between the paths of two adjacent control members, projecting parts on the edges of the cut out parts controlling the possible positions of the control members.

1,392,631. PRINTING-TAXIMETER. WILLIAM EISENSCHMID, Etna, Pa., assignor to Pittsburgh Taximeter Company, a Corporation of Pennsylvania. Filed Nov. 1, 1918. Serial No. 260,713. 18 Claims. (Cl. 235—30.)



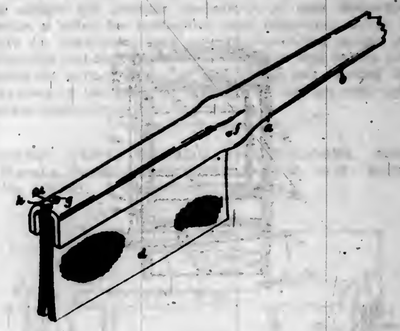
1. In a taximeter, a total miles counter, a units counter, a movable flag or signal, means operated by said flag or signal to render said units counter operative at the beginning of a trip or inoperative at the end of a trip, printing mechanism associated with said counters and arranged to be operated upon each reverse movement of said flag or signal and record strip advancing means constructed so as to space the records of one trip from those of the next trip.

1,392,632. FILLING APPARATUS FOR STORAGE BATTERIES AND THE LIKE. LOUIS H. FLANDERS, Jenkintown, Pa.; Ida Y. Flanders, administratrix of said Louis H. Flanders, deceased, assignor to The Electric Storage Battery Company, Philadelphia, Pa., a Corporation of New Jersey. Filed Jan. 28, 1919. Serial No. 273,603. 8 Claims. (Cl. 226—127.)



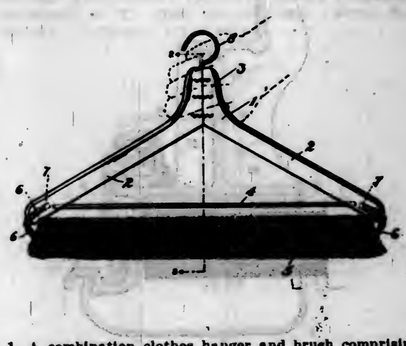
1. In a filling apparatus the combination of a self-closing manually openable valve, a hand lever for operating said valve, an electro-magnet sufficient for holding the hand lever in open position and insufficient for opening said valve, and contacts and their circuit connections for weakening the excitation of the winding while maintaining its continuity to permit the valve to close.

1,392,633. DUSTER. EMMA G. GILMAN, Paterson, N. J. Filed Apr. 8, 1921. Serial No. 459,695. 2 Claims. (Cl. 15—28.)



1. In combination, an elongated handle member having a groove formed therein and extending to one end thereof, a fabric having a fold formed therein and having such fold lying in the groove, and an elongated taut flexible securing device for the fabric secured at one end thereof permanently to the handle and in the groove and detachably secured at its other end to the handle exterior of the groove and straddling and thereby holding the fabric clamped against the bottom of the groove.

1,392,634. COMBINATION CLOTHES HANGER AND BRUSH. JOHN H. GOLDBERG, Washington, D. C. Filed Jan. 29, 1920. Serial No. 354,910. 2 Claims. (Cl. 211—13.)

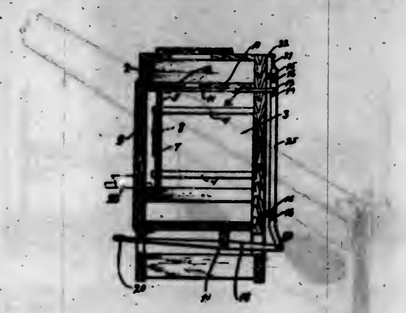


1. A combination clothes hanger and brush comprising a coat hanger element having downwardly divergent arms, a handle-like projection extending upwardly from the center of said coat hanger element, and a brush having a twisted wire core arranged with the wire core connected across the ends of the said arms to form a strut mutually holding and held by the said arms in a manner to form a rigid structure wieldable with said handle-like projection.

1,392,635. BEEHIVE. JOZEF GORNIAK, Denver, Colo. Filed Jan. 22, 1921. Serial No. 439,181. 1 Claim. (Cl. 6—12.)

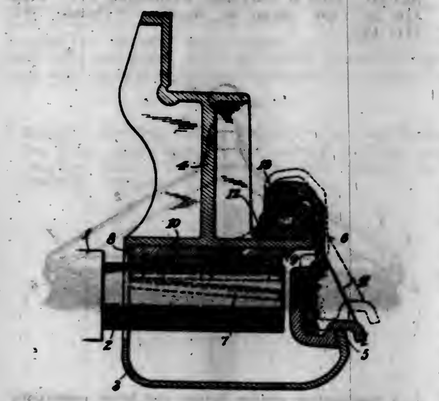
A device of the class described comprising a base, a frame mounted thereon, a jam door on the front of said

frame, and means for opening said door comprising a lever having a pedal thereon pivotally mounted in said base, a horizontal rod slidably mounted in said frame, a vertical rod slidably mounted on the rear of said frame,



an arcuate slot in said vertical rod, a pin on the extremity of said horizontal rod having engagement with said slot, a pin on the lower extremity of said vertical rod, and a slot in the extremity of said lever being engaged by said last-named pin.

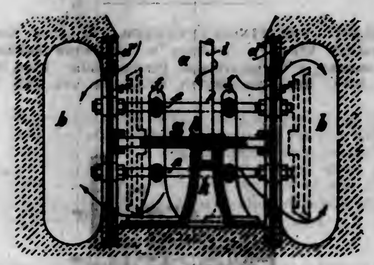
1,392,636. JOURNAL-BEARING. LOUIS D. GRISCO, Hackensack, N. J., assignor to The Gregg Company, Limited, Hackensack, N. J., a Corporation of New York. Filed Dec. 2, 1918. Serial No. 265,014. 4 Claims. (Cl. 64—10.)



1. The combination of an open-ended journal-box whose chamber has a non-cylindrical upper portion with two inclined guideways and two depending shoulders, and a removable bearing-block resting upon the inner ends of said guides and located between said shoulders.

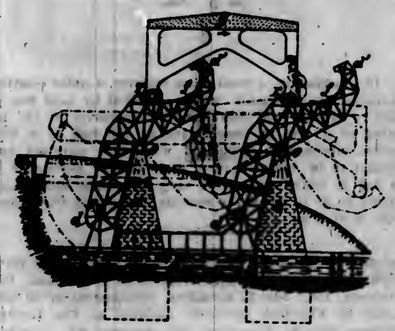
1,392,637. BALANCE CLOSING DEVICE FOR WATER-CONDUITS. FELIX GRIMMELS, Mannheim, Germany, assignor to Techno-Service Corporation, New York, N. Y., a Corporation of New York. Filed May 28, 1920. Serial No. 385,061. 8 Claims. (Cl. 251—82.)

1. In a balanced closing device for water-conduits, in combination: two co-axially arranged disk-valves; stays connecting the disks of them with each other; guides for



said stays; and means for actuating said disks; said actuating means being arranged between said valves.

1,392,638. SHIP-LOCK LIFT. FELIX GRIMMELS, Mannheim, Germany, assignor to Techno-Service Corporation, New York, N. Y., a Corporation of New York. Filed June 15, 1920. Serial No. 389,258. 2 Claims. (Cl. 61—9.)

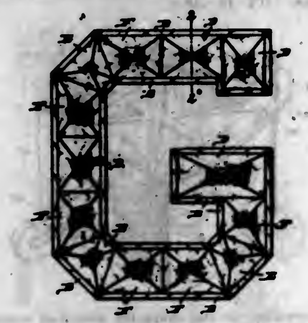


1. In a ship-lock-lift, the combination of pairs of similarly shaped double-armed levers, of which one pair is located adjacent the tail water end of a canal and the other adjacent the head water end of the same; of supports for said levers; a tank suspended from the corresponding arms of all of said levers; rails provided upon the other arms of said levers; a counter-poise carried by said other lever-arms and being adapted to be displaced along said rails in horizontal direction; and means for thus displacing said counter-poise.

1,392,639. SIGN-LETTER AND THE LIKE. PAUL O. GROVE, Buffalo, N. Y. Filed Feb. 7, 1921. Serial No. 442,978. 5 Claims. (Cl. 40—141.)

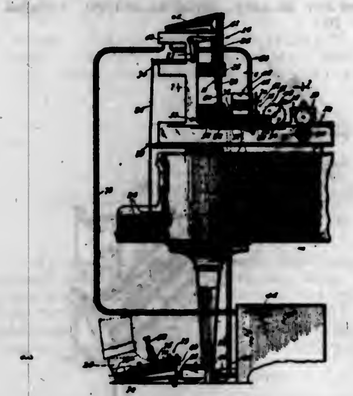
1. A letter or other character comprising a series of abutting transparent sections, provided with a reflecting material at the rear, each section having a plurality of

surfaces arranged at an angle one with the other, and means engaging the outer and inner marginal portions of



said sections to secure and retain the same in related position.

1,392,640. INDICATING DEVICE USABLE WITH MUSIC-RECORDING MECHANISM. JAMES CLARKE HAGEY, Chicago, and ALFRED SWENSEN, Cicero, Ill., assignors to The Cable Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 19, 1917. Serial No. 163,319. 37 Claims. (Cl. 84—461.)



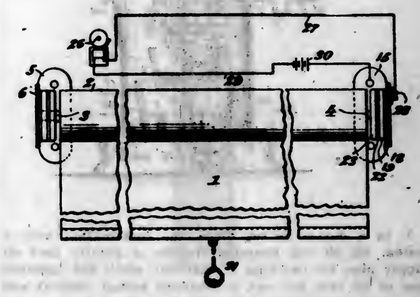
2. A combination including a manually attended musical instrument, means for making a record on a record-receiving means of a selection as it is played on said instrument, means for advancing the record-receiving means as the selection is being played, and indicating means for acting feelably upon the person of the attendant to indicate the speed at which the record-receiving means is being advanced.

9. Means for indicating the tempo at which a musical selection should be rendered, comprising automatically controlled means for periodically acting feelably on the attendant.

12. Means for indicating the tempo at which a musical selection should be rendered, comprising a foot-support, means for securing the foot of the attendant to said foot-support, and automatically controlled means for periodically actuating said foot-support.

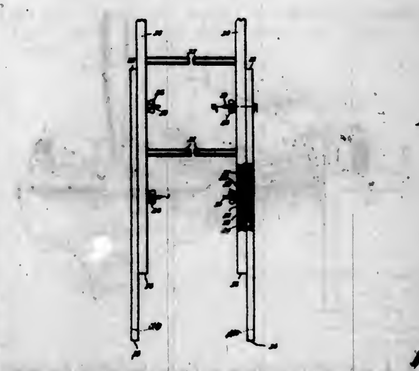
31. A combination including a manually attended musical instrument, means for making a record on a record-receiving means of a selection as it is played on said instrument, means for advancing the record-receiving means as the selection is being played, pneumatically actuated periodically operating indicating means for indicating to the attendant the speed at which the record-receiving means is being advanced, pneumatically actuated periodically operating means for recording on the record-receiving means the periodic operations of said indicating means, a valve for controlling said indicating means, a valve for controlling said operation-recording means, an adjustable lost-motion-connection between said valves, and means for actuating one of said valves and causing the actuation of the other of said valves through said lost-motion-connection.

1,392,641. CURTAIN-SHADE CIRCUIT-CLOSER. JOHN HAVRAN, Portland, Oreg. Filed Oct. 18, 1916. Serial No. 126,391. 5 Claims. (Cl. 200—52.)



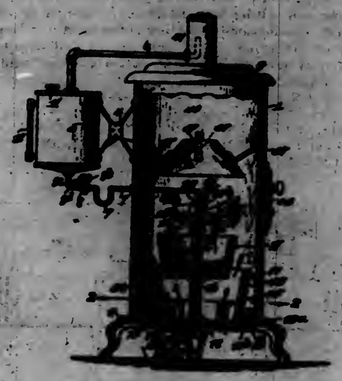
1. A curtain shade alarm device including a shade provided with a trunnion, a contact, and a second contact on which said trunnion may roll to engage the first mentioned contact.

1,392,642. ADJUSTABLE LADDER. GEORGE J. HEWINS, Rochester, N. Y. Filed Dec. 16, 1920. Serial No. 431,241. 3 Claims. (Cl. 228—63.)



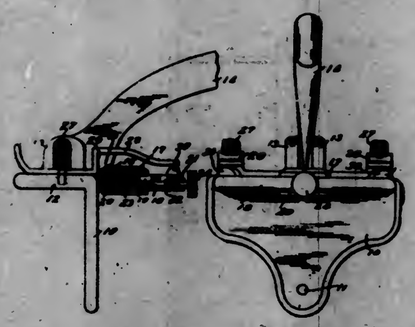
3. A leg extension for ladders comprising a leg having rectangular sockets in one face thereof with partitions between the sockets, the said leg having a longitudinal slot through said partition and the bottoms of the sockets, a guide rib removably positioned within the portions of the slot within said partitions and securing bolts having rectangular heads for setting within said sockets, the said heads being threaded for sliding movement upon the said rib with the bolts projecting through the slot at the bottoms of the sockets, and lock nuts for said bolts.

1,392,643. BURNER FOR STOVES. HENRY B. HEATHILL, Eldorado, Ill., assignor of one-fourth to Antonio Buscemi and one-fourth to Raffaele Cleveno, Eldorado, Ill. Filed May 1, 1920. Serial No. 378,040. 22 Claims. (Cl. 158—91.)



1. In a device as set forth, the combination with a casing, an oil cup mounted therein, a gravity feed oil supply pipe for carrying a relatively small but constant flow of oil into the cup, a combined burner support and air supply tube rising upwardly from the bottom of the casing and terminating in a plurality of branch tubes, terminating at diametrically opposite points relatively to the cup for permitting air to mix with the vapor from the fuel in the cup.

1,392,644. SAW-SET. JAMES WILLIAM INGLETON, Astoria, Oreg. Filed July 1, 1920. Serial No. 393,296. 7 Claims. (Cl. 76—63.)



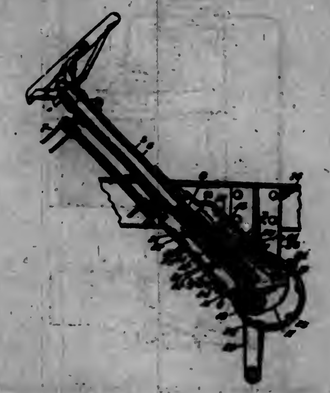
1. A saw set comprising a frame including an upper horizontal plate, a lever pivoted upon the rear portion of the plate and having an angular flat surface upon its lower portion adjacent to its pivot, an anvil upon the forward portion of the plate and adjustable toward and away from the pivot of the lever and having an angular flat surface adapted to oppose the said surface of the lever, saw bearing members carried by the forward portion of the plate, and a guard frame adjustably mounted on the frame plate for movement parallel to the anvil and having side extensions provided with saw engaging shoulders at opposite sides of the lever as described.

1,392,645. VULCANIZER. WILLIAM E. JOHNSON, St. Joseph, Mo. Filed Dec. 13, 1920. Serial No. 430,304. 4 Claims. (Cl. 18—18.)



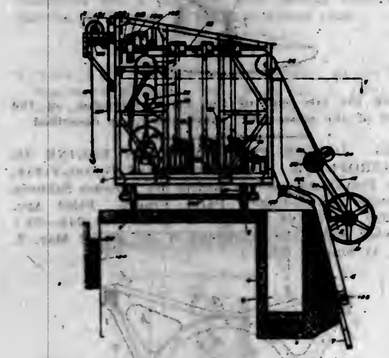
1. A vulcanizer of the character described comprising a container divided into combustion chamber and a cool air chamber, partitions arranged within the combustion chamber and disposed to radiate heat to said cool air chamber, said partitions terminating short of the bottom of the container to form a fuel chamber, one wall of the container having draft openings, and means for securing the vulcanizer to the wheel of the vehicle.

1,392,646. STEERING-GEAR. DAVID W. JONES, Chicago, Ill. Filed Nov. 29, 1918. Serial No. 264,580. 2 Claims. (Cl. 74—79.)



1. A steering gear, comprising a two-part housing, a web disposed transversely from one wall of the housing at a point removed from the lower end and terminating at a point removed from the opposite wall of the housing, a shaft rotatably mounted at its lower end in said web, each part of the housing being provided with an elongated rib arranged in opposing relation and disposed parallel with the shaft, a single member encircling said shaft and having operative relation therewith whereby rotation of the shaft will cause said member to travel lengthwise of the housing, said member being provided with a laterally disposed portion adapted to slide between said ribs to prevent rotative movement of said member, a lever oscillatingly mounted in the lower part of said housing, a rocker arm disposed transversely within the housing beneath said web and having operative relation with said lever, and an arm disposed lengthwise intermediate of the web and the opposing wall of the housing, said arm being connected to said member and one end of said rocker arm whereby movement of the member will induce oscillation of said lever.

1,392,647. RACK-CLEANING DEVICE. IRA W. JONES, Lebanon, Mo. Filed Dec. 9, 1920. Serial No. 429,429. 34 Claims. (Cl. 210—172.)



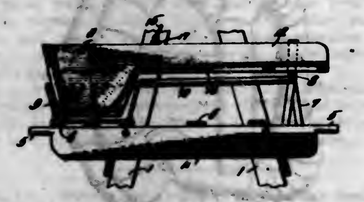
1. The combination with a dam having a mill race therethrough and a grating across said race, of a car mounted for movement along said dam above said grating, a canal in the upper part of said dam, and a power operated rake mounted on said car and operative to rake debris out of said grating and deliver it to said canal.

1,392,648. MEANS FOR RAILWAY-TRACK EXTENSION. JOSEPH F. JOY, Pittsburgh, Pa. Filed July 23, 1920. Serial No. 398,376. 8 Claims. (Cl. 238—340.)



8. A rail tie clamp comprising a body having a jaw adapted for engagement upon the base flange of a rail, means for slidably connecting the body to a bar tie, said body having an angular socket therein, a nut fitted in said socket, and a set screw threaded through said nut adapted for engagement with the upper surface of a tie.

1,392,649. GRAIN-TREATING MACHINE. HENRY LEPAK, Minneapolis, Minn. Filed Feb. 6, 1920. Serial No. 356,724. 3 Claims. (Cl. 83—28.)



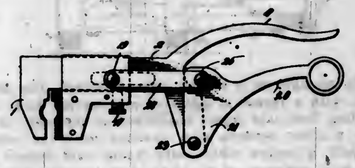
1. A grain treating apparatus comprising a supporting frame, a solution receptacle and drain plate discharging therein arranged within the frame, and dipper means of perforated material disposed longitudinally over and above the said receptacle and plate and mounted for movement upwardly and laterally of the frame for discharge purposes, said means embodying a receptacle movable to dip into said solution receptacle and an extension forming a discharge spout for the dipper receptacle and perforated to drain upon said plate substantially throughout its length.

1,392,650. FISHING-TOOL. JOHN F. MCMILLIAN, Humble, Tex. Filed June 3, 1919. Serial No. 301,481. 1 Claim. (Cl. 294—93.)



A fishing tool including a head, having peripheral teeth, a blank neck, carried by the head and eccentric with respect thereto, a stem to which said neck is attached and through which the tool may be rotated, an eccentric sleeve on said neck provided with peripheral teeth, said tool having a water course extending therethrough from the upper to the lower end thereof, through which water may be forced through said tool.

1,392,651. WRENCH. ARTHUR W. MINNEY, Stockton, Calif. Filed May 20, 1921. Serial No. 471,044. 2 Claims. (Cl. 81—181.)



1. The combination with a bar provided with a longitudinal slot therein carrying a primary jaw, of a secondary jaw, a casing carried by the secondary jaw in slidable engagement with the bar, a pin passing through the casing and through the slot in the bar, a transverse extension provided on the bar, an operating lever pivotally mounted on the transverse extension and operative connections between the lever and the secondary jaw.

1,392,652. FUEL-FEEDING DEVICE FOR AUTOMOBILES. WILLIAM H. MUZZY, Chicago, Ill. Filed Apr. 10, 1920. Serial No. 372,836. 19 Claims. (Cl. 158—36.)

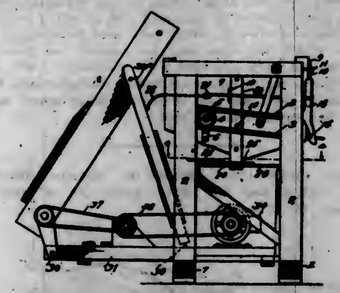
1. In a vacuum tank, the combination with a vacuum chamber, of a suction connection therefor, a connection

feeding gasolene thereto, an atmosphere valve for said chamber, mechanical means within the chamber controlled



by the liquid level thereof for operating the valve, and additional means, electrically operated, for supplementing said mechanical means for opening the valve.

1,392,653. MANURE-LOADER. ARVID R. NELSON, Mediapolis, Iowa. Filed June 28, 1920. Serial No. 391,065. 6 Claims. (Cl. 214—41.)



1. In an apparatus of the class described, the combination with a frame, of pairs of rods having their ends extending into said frame positioned at the ends of the frame, a roller between and traveling upon the rods of each pair, a hopper within said frame, said hopper provided with brackets at its ends, said brackets provided with stub shafts extending into said rollers, locking means for holding said hopper in a fixed position upon said frame, and means for loading said hopper.

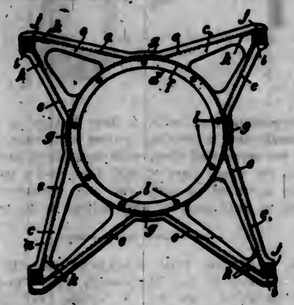
1,392,654. SOUND-CONVEYER FOR TALKING-MACHINES. WILLIAM D. PFROMMER, West Berlin, N. J., and FREDERIC W. ADAMS, Milbourne, Pa., assignors to The Perfek'tone Corporation, Philadelphia, Pa., a Corporation of Delaware. Filed June 4, 1919. Serial No. 301,792. 1 Claim. (Cl. 274—24.)

A talking machine sound conveyer comprising the combination of a tone arm turnable about a vertical axis only, right angle elbows pivoted together to provide a playing joint and constituting a goose-neck, means for turnably adjusting one end of the goose-neck on the end of the tone arm, an elbow extension having a curved arm and a laterally opening sound-box receiving neck, a sound box mounted against rotation on the neck and parallel with the elbow extension, and means for turnably



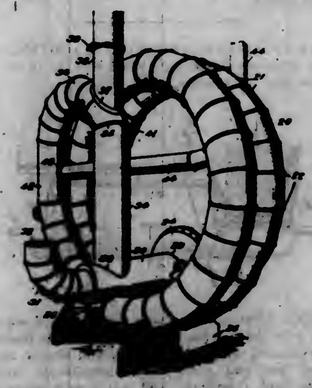
adjusting the free end of the elbow extension on the free end of the goose-neck, substantially as described.

1,392,655. DEVICE FOR FIXING AN ENGINE IN AN AEROPLANE. PIERRE JEAN RENÉ POSTEL-VINAY, Paris, France, assignor to Societe des Moteurs Salmson (Systeme Canton-Unne), Paris, France. Filed Apr. 28, 1920. Serial No. 377,400. 5 Claims. (Cl. 244—31.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. An improved device for fixing an engine in an aeroplane, consisting of a metal frame composed of two substantially identical flat frame plates, each cut out so as to have four radial arms adapted to be fixed at their outer ends to the fuselage longitudinals and arranged around a circular aperture to the edge of which the engine is adapted to be bolted and bracing channel bars inserted between said frame plates along their outer edges and around the peripheries of their circular apertures and riveted to said frame plates.

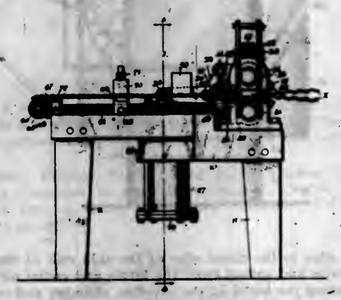
1,392,656. DESICCATOR. WILLIAM O. RAW, Eureka, Calif., assignor to California Central Creameries, San Francisco, Calif., a Corporation of California. Filed Apr. 17, 1918. Serial No. 229,076. 11 Claims. (Cl. 83—46.)



11. A device of the character described consisting of a receptacle, a helical pipe having disintegrating projections

connected therewith and having an exit opening in one side thereof, a heating supply leading into said helical pipe, a blower connected with said helical pipe and said receptacle and a discharge pipe leading from the exit opening in the side of the said helical pipe.

1,392,657. WEAVING-MACHINE. JAMES LEAMON REYNOLDS, Scottdale, Pa. Filed Nov. 2, 1920. Serial No. 421,245. 13 Claims. (Cl. 139—32.)



12. In a machine of the character described, a series of dies adapted to engage every other warp rod from one side, a second series of dies adapted to engage alternate warp rods intermediate those engaged by the first-named series and from the opposite side, said first mentioned series and said last-mentioned series being shiftable transversely with respect to each other, means for imparting oppositely rocking motion to said dies, and shifting mechanism for shifting said series transversely to reposition the dies after each bending operation.

1,392,658. CAPILLARY TUBE AND PROCESS FOR MAKING THE SAME. ALFRED ROESCH, Brooklyn, N. Y., assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y., a Corporation of New York. Original application filed Apr. 7, 1917, Serial No. 160,352. Divided and this application filed July 27, 1918. Serial No. 247,052. 5 Claims. (Cl. 29—180.)



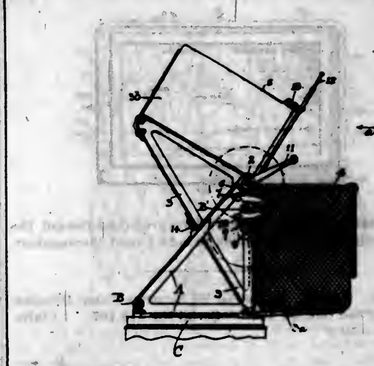
1. The process of making capillary tubes of metal which consists in first producing a metallic tube having a bore of materially less cross-sectional area than that of the tube itself, closing said bore by pressure exerted upon said tube in radial directions and reopening said bore to a limited, infinitesimal extent corresponding to a mere fissure in said tube.

4. A capillary tube of metal having a longitudinally extending bore, the cross-sectional dimension of which is greater in one direction than in a transverse direction, said bore representing a mere fissure in said tube.

1,392,659. WEIGHING APPARATUS. ERNEST ABRAHAM ROPER, Oakworth, near Keighley, and JOHN WILLIAM HARTLEY, Haworth, near Keighley, England. Filed Nov. 14, 1918. Serial No. 262,435. 4 Claims. (Cl. 265—27.)

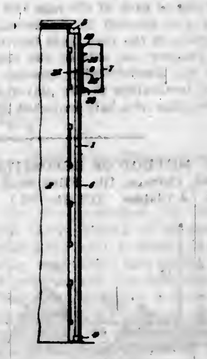
1. In apparatus for use in weighing balls of yarn, bobbins, tubes, cops and the like, framework, oscillating arms mounted on said framework, a receptacle fixed upon

said arms, on one side of their pivotal supports, means or extensions from said arms on the other side of their



said supports for receiving a detachable receptacle and means for operating said oscillating arms.

1,392,660. FIRE-ESCAPE. FELIKS SEBESTAKOWICZ, McKeesport, Pa. Filed May 11, 1921. Serial No. 468,471. 1 Claim. (Cl. 227—12.)

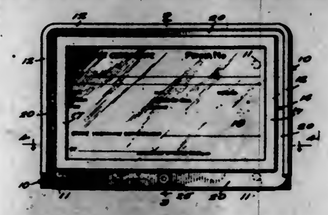


A fire escape including an upright tubular support, laterally projecting flanges upon said support, a carrier positioned for sliding movement upon the edges of the said flanges, clutch means between the carrier and flanges including a pair of arm members pivotally mounted within the carrier, friction plates upon the rear ends of the arms engageable with the inner faces of the said flange members, spring means for normally maintaining the clutch plates away from the flange members and manually controlled means within the carrier for engaging the clutch plates with the said flanges.

1,392,661. LICENSE-CERTIFICATE-DISPLAY CASE. SAMUEL R. SMEAD, Vanderbilt, Pa. Filed Feb. 21, 1921. Serial No. 446,685. 3 Claims. (Cl. 40—16.)

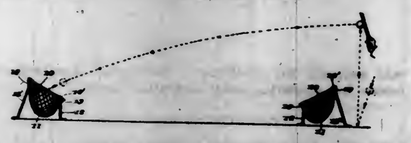
1. In a device of the character described, a casing including side walls and a transparent face, the walls of said

casing being provided with integral stamped out sockets, and a spring having ends adapted for insertion within said



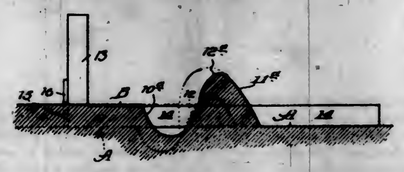
sockets, said spring being normally projected toward the transparent face of said casing to hold a card thereagainst.

1,392,662. **GAME.** RAYMOND W. SEIBOLD, Camp Douglas, Wis. Filed Oct. 20, 1920. Serial No. 418,197. 1 Claim. (Cl. 46—59.)



A game apparatus comprising a ring formed of round wire and having a plurality of enlarged and angular portions, a pair of longer legs and a single leg, the latter being shorter than the pair of legs, and a sleeve secured to the upper end of each of the legs and having its upper end bifurcated and secured in embracing relation to an enlarged portion of the ring, said legs being arranged in position to support one side of the ring at a higher elevation than the diametrically opposite side to present the ring at an inclination to the player and a single opening for the reception of a ball projected by the player.

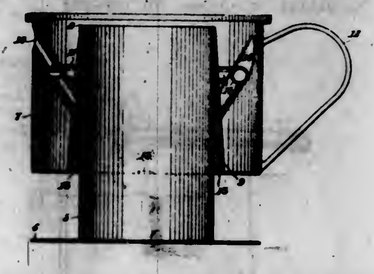
1,392,663. **METHOD OF DEPOSITING SAND.** JACOB B. SENSIBAR, Chicago, Ill. Filed Sept. 7, 1920. Serial No. 408,492. 4 Claims. (Cl. 61—30.)



1. The method of depositing sand and the like which consists in forming an embankment about the area to be filled, placing a strip of fabric longitudinally of the embankment, over the crest and extending down the inner side thereof to prevent it from eroding, placing a plurality of drains near said embankment leading outside said area, pumping water and sand into said area, digging out the sand as the fabric becomes covered, from the inner side of the strip of fabric, placing this sand on the outer face of the embankment and turning the lower edge of the strip of fabric over the newly made top of the embankment.

1,392,664. **MILK-BOILER.** JOSEPH SLOBODA, Charleroi, Pa. Filed Mar. 31, 1921. Serial No. 457,371. 1 Claim. (Cl. 53—1.)

A milk boiler comprising a central main receptacle having a bottom wall, means including a side and a bottom wall forming an overflow chamber of annular form about the main receptacle with the bottom of the overflow chamber placed above the bottom of the main receptacle, said side wall being extended above the side wall of the main receptacle and said main receptacle being provided with an annular relatively wide bottom flanged coextensive with the bottom thereof, said overflow chamber also including an inner wall of downwardly flaring form connected at its



upper edge to the upper edge of the side wall of the main receptacle and spaced from the latter and radial air tubes connecting the walls of the overflow chamber and communicating at one end with the space between said chamber and the main receptacle and at the other end with the space surrounding said chamber and a series of curved pipe sections or tubes providing intercommunication between said radial tubes.

1,392,665. **SWITCH.** LEWIS STERLING SUTLIFF, Charleston, S. C. Filed June 28, 1920. Serial No. 391,037. 6 Claims. (Cl. 200—155.)

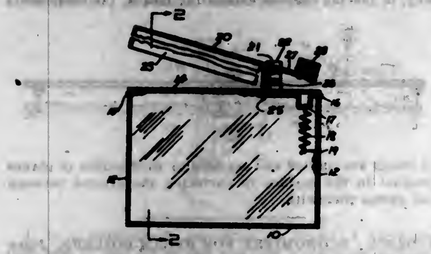


1. A switch of the class described comprising a pair of disks axially connected for movement one with respect to the other, one of said disks being provided with a bridge piece and the other provided with contacts adapted to be spanned by the bridge piece for controlling an electrical circuit including said contacts, said disks being provided with recesses adapted to accommodate circuit wires connected to said contacts, and integral radial projections on the peripheries of said disks for movement into and out of alinement whereby to move said bridge piece into position to span said contacts to close the circuit therethrough and for movement out of engagement with one of said contacts.

1,392,666. **TRAP.** JOHN SKARZYNSKI, South Amboy, N. J., assignor of one-half to John Smolienski, South Amboy, N. J. Filed June 5, 1920. Serial No. 386,667. 5 Claims. (Cl. 43—69.)

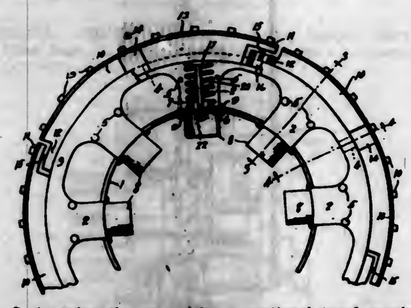
5. An animal trap comprising a box, a trap door hinged in the top of said box midway between its sides, one of the hinge pintles of the trap door having a cranked portion disposed at right angles to the door, a tension spring connected to said cranked portion of the hinge pintle, a cover hinged transversely to the trap door at the end thereof to which is secured the said pintle and disposed at a

distance above the said trap door, a depending flange extending around the free end and the two sides of said



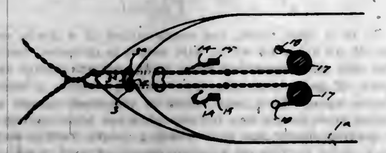
cover, a cam upon the said pintle adapted to support said cover in a position inclining upwardly from its hinge end, and a counterweight partially balancing the said cover.

1,392,667. **SPRING-TIRE.** WILLIAM G. WAGNER, Carter, S. D., assignor to Alice Belle Wagner, Carter, S. D. Filed June 3, 1920. Serial No. 386,160. 2 Claims. (Cl. 152—8.)



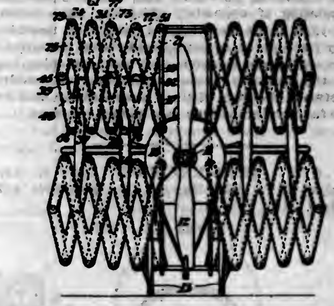
2. A spring tire comprising a sectional tread member and a rim member, the sections of the tread member being loosely connected together, the rim member including an inner band concentric to the tread member and having outwardly radiating pairs of spokes connected at their outer ends by circular ring portions which support the tread sections, inwardly radiating bolts carried by the tread sections extending between adjacent pairs of spokes and through the inner band, the tread sections having bosses surrounding the adjacent ends of the bolts respectively, the band having outwardly directed bosses surrounding the adjacent portions of the bolts respectively, casing radiating inwardly from the band and receiving the inner ends of the bolts, a coil spring encircling each bolt and having its opposite ends embracing the first- and second-named bosses, and interlocking connections between the rim and tread.

1,392,668. **MEANS FOR MOORING SHIPS.** FRANCIS W. B. WALTON, San Francisco, Calif. Filed Nov. 30, 1920. Serial No. 427,322. 5 Claims. (Cl. 114—230.)



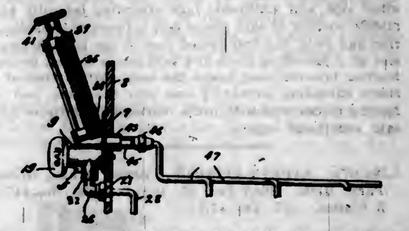
1. In a ship mooring means, the combination with a pair of anchor cables, of a hawse pipe common to and receiving both of the cables, said hawse pipe being arranged centrally of a vessel at the bow thereof.

1,392,669. **EXPANSIBLE AND CONTRACTIBLE STRUCTURE.** JOHN A. WEIS, Chicago, Ill. Filed July 15, 1919. Serial No. 310,987. 18 Claims. (Cl. 244—12.)



1. In an expansible and contractible structure, a plurality of sets of links associated in pairs adapted to be extended to a right line position for use, each pair of links being pivotally connected in a position approximately centrally thereof and also pivotally connected at one end to the adjacent end of the next succeeding pair with each set of links being provided with means for giving the structure rigidity when in a straight line position.

1,392,670. **PUMP.** RAYMOND O. WONNS, Maplewood, Ohio. Filed Feb. 1, 1919. Serial No. 274,406. 2 Claims. (Cl. 123—180.)



1. In a device of the class described, the combination of a valve casing, said casing having an air passage and a gas passage communicating with a recess, pump means connected to said casing, said casing also having communications between said pump means and said casing and a check valve within said communication, a valve for regulating the passage through said air passage and said gas passage, said casing having an exhaust passage communicating with said pump means, whereby the pump means may draw air or gas through said check valve into the pump means and then drive the same from the pump means to the exhaust passage.

1,392,671. **RESILIENT TIRE.** JOHN M. ABRAMS, Brooklyn, N. Y. Filed Apr. 12, 1921. Serial No. 460,642. 7 Claims. (Cl. 152—8.)



5. In a vehicle tire: the combination with a rim and a casing carried by same; of a continuous metal base member

extending throughout the interior of said casing, said member being provided with transverse slots and having integral drops extending inwardly and under same, riser members extending outwardly and over said base member and consisting of oppositely extending arms having attaching lugs to fit the slots of said base member, and auxiliary risers retained within said risers, the latter being provided with spurs between their said attaching lugs for holding the auxiliary risers thereto and with additional spurs between the ends of their arms and the said attaching lugs for further holding said auxiliary risers.

1,392,672. RESILIENT TIRE. JOHN M. ABRAMS, Brooklyn, N. Y. Filed May 6, 1921. Serial No. 467,469. 7 Claims. (Cl. 152—8.)



3. In a vehicle tire: the combination with a rim and a shoe or casing carried by same; of a resilient supporting member extending throughout the interior of said casing and comprising a succession of interlocking pieces disposed transversely of the casing, said pieces each having laterally projecting lugs at one side and a slot at the other side, and additional lugs extending laterally at the middle portion of said pieces and between the middle portion and ends, the first-named lugs of one piece fitting the slot of a preceding piece and said pieces having drops extending inwardly and under the body portion thereof and risers extending outwardly and over the same, and reinforcing pieces held within the corresponding risers by the said additional lugs.

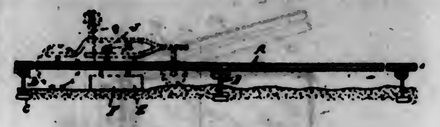
1,392,673. SAFETY-STIRRUP. BRENT BAKER, Highland Park, Mich. Filed Feb. 25, 1921. Serial No. 447,741. 5 Claims. (Cl. 54—47.)



1. In a stirrup, an outer bow, an inner bow provided with a tread bar, said bar being pivotally supported in the lower end of the outer bow, said ends of the outer bow being notched and provided with an opening on one side of the notch permitting withdrawal of the inner bow upon its being turned to a right angle relative to the outer bow.

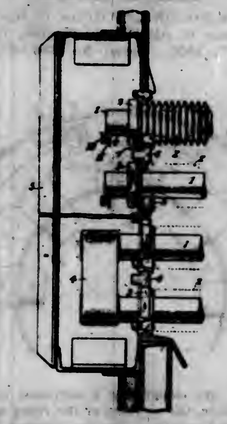
1,392,674. METHOD OF GRADING ROADBEDS FOR CONCRETE ROADS. ROBERT D. BAKER, Detroit, Mich. Filed May 8, 1919. Serial No. 295,592. 6 Claims. (Cl. 37—7.)

1. The method of grading road beds for concrete pavement foundations which consists in establishing temporary gaging means along and over the roadway entirely extraneous thereto, the longitudinal and transverse guiding members of which are substantially coincident with the elements of a predetermined profile surface for the roadway, in placing thereon excavating means, the movements



of which are limited and confined by such guides to planes parallel to the surface in surfacing the ground between the guides therewith.

1,392,675. ECONOMIZER FOR STEAM-BOILERS. JOHN E. BELL, Brooklyn, N. Y., assignor to Power Specialty Company, New York, N. Y. Filed Oct. 30, 1920. Serial No. 418,200. 3 Claims. (Cl. 122—510.)



1. In a structure of the kind described, the combination with a bank of tubes having end plates secured thereto and built up in horizontal rows to form a wall, of cross beams between the rows of plates and removable wedges under each plate supporting the same upon the beam beneath it.

1,392,676. MAINSPRING-BARREL FOR TIMEPIECES. HELGE A. BORRESEN, Marquette, Mich. Filed Sept. 4, 1915. Serial No. 48,982. 9 Claims. (Cl. 58—66.)



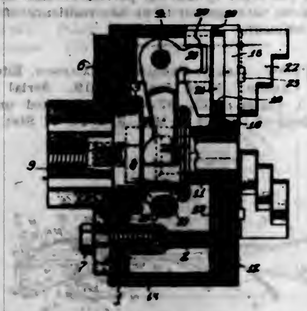
1. In a time piece, the combination of a main spring barrel, an arbor on which said barrel is mounted, bearings for said arbor mounted upon rigid portions of the movement of said time piece, a winding wheel, a winding sleeve upon which said wheel is mounted, means associated with said sleeve for engaging the main spring, and a bearing sleeve for said winding sleeve fixedly secured to a rigid portion of the movement of said time piece, said bearing sleeve surrounding said arbor and extending inwardly to a point opposite that portion of the winding sleeve which takes the thrust of the main spring.

1,392,677. REPRODUCER FOR PHONOGRAPHS. JULIUS A. BROWN, Peekskill, N. Y. Filed Aug. 27, 1919. Serial No. 320,091. 2 Claims. (Cl. 274—35.)



1. In a phonograph reproducer, a frame, a vibrating disk held in said frame and carrying a vibrating arm, an annular vibrating plate held in the ring and provided with a free tubular extension at its inner edge, said annular plate having small apertures, and a conical ring extending forward from the intermediate portion of the annular plate and provided with a tubular extension at the inner edge, said apertures communicating with the space between said tubular extensions.

1,392,678. CHUCK. JOSEPH F. BUHR, Detroit, Mich. Filed Sept. 5, 1919. Serial No. 321,780. 7 Claims. (Cl. 279—119.)



1. In a chuck head having a plurality of jaws, a removable unitary guide plate for said jaws completely housed within said chuck head.

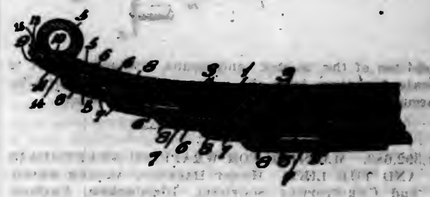
1,392,679. HONEY-EXTRACTOR. BEATTY M. CRAWFORD, Santa Ana, Calif., assignor to Victor V. Kunkel, Los Angeles, Calif. Filed May 20, 1920. Serial No. 382,768. 2 Claims. (Cl. 210—65.)



1. In a centrifugal honey extractor, a shaft, a reel on said shaft, honey-comb carriers mounted on said reel, means for automatically partly reversing said honey-comb carriers when said shaft is reversed and for allowing said honey-comb carriers to complete their reversing movement under the influence of centrifugal force.

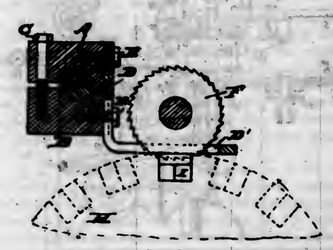
2. In a centrifugal honey extractor, a shaft, a reel rotatively mounted on said shaft, honey-comb carriers mounted on said reel, the hub of said reel being provided with a recess at one end, a collar secured on said shaft, a lug on said collar extending into said recess for alternately engaging the side edges of said recess, said recess being somewhat wider than said lug, a disk rotatively mounted on said shaft, the hub of said disk having a recess in one end, a collar secured on said shaft, a lug on said collar extending into the recess in said disk hub, the recess in said disk hub being slightly wider than the lug on said latter collar, and means actuated by said disk when the shaft is reversed for partly reversing said honey-comb carriers and for allowing said honey-comb carriers to complete their reversing movement under the influence of centrifugal force.

1,392,680. VEHICLE-SPRING. JOHN C. DOWD, Merchantville, N. J. Filed Dec. 7, 1920. Serial No. 428,899. 6 Claims. (Cl. 267—50.)



1. A spring of the character stated formed of a series of leaves with channels in the faces of, and ports through the leaves forming communications between the channels of adjacent leaves, the walls of said channels being nested in adjacent leaves in the longitudinal direction thereof thus interlocking the latter, the nesting portions and communications being at the ends of separate leaves.

1,392,681. NUT-KEEPER FOR MILLING-MACHINES. WILLIAM R. DURHAM, Detroit, Mich. Filed Nov. 22, 1920. Serial No. 425,686. 3 Claims. (Cl. 10—72.)

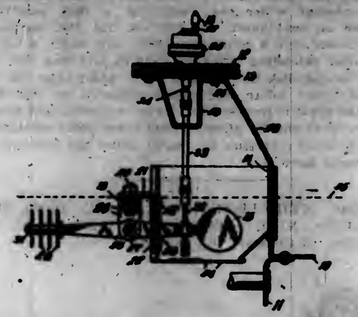


1. In a milling machine, a saw, opposing rotatable plates arranged in pairs and recessed to form pockets to receive a plurality of nuts for delivery to the saw, and an adjustable keeper adapted to overlap the nuts as they are fed to the saw, whereby when acted upon by the latter they are held against withdrawal from the pockets formed by the opposing rotatable plates.

1,392,682. STEAM-BOILER LOW-WATER SIGNAL. CHARLES E. FULLER, Omaha, Nebr., assignor of one-half to Arthur H. Fetters, Omaha, Nebr. Filed Apr. 16, 1920. Serial No. 374,480. 7 Claims. (Cl. 137—102.)

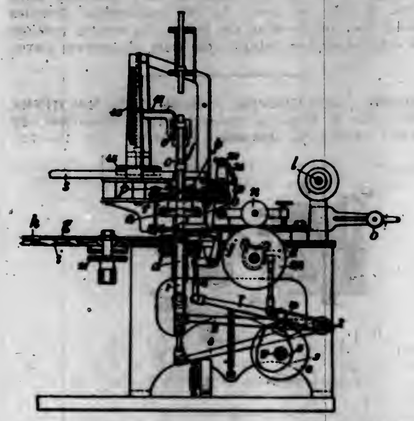
1. In a water level signaling apparatus, the combination with a signaling device; of a member subject to scale formation from the water; operative connections between

said signaling device and member by which the signaling device is adapted to be affected in accordance with the



position of the member; and means, similarly subject to scale formation from the water arranged to neutralize accumulation of scale deposits on said member.

1,392,683. MACHINE FOR WRAPPING SWEETMEATS AND THE LIKE. HENRY HACKETT, ARTHUR SMITH, and CHRISTOPHER SOUTHALL, Birmingham, England. Filed Jan. 24, 1920. Serial No. 353,834. 4 Claims. (Cl. 98—2.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In machines for wrapping sweetmeats and like bodies with a thin enveloping medium, the combination comprising a sheet of flexible material having an orifice therein, upper and lower plungers between which the body and its enveloping medium are carried through the said orifice, grippers situated above the flexible material for holding the body and permitting it to be released by the plungers, slides for closing the ends of the enveloping medium against the underside of the body, and means for imparting movements to the said parts in their proper sequence, substantially as described.

1,392,684. BOW-HOLDER. EDWARD E. HAMILTON, Westfield, Mass. Filed Dec. 29, 1920. Serial No. 432,781. 5 Claims. (Cl. 132—47.)

5. As an article of manufacture, a bow holder comprising a convex body member adapted to be secured on the hair, having at its opposite sides two parallel cylindrical portions separated from each other, and a bow holding element consisting of a single piece of celluloid wire doubled centrally on itself to form a tongue, said tongue being provided with a transverse groove on its outer surface, the two strands of said wire extending in a direction away from said tongue but spaced from each other for engagement at separated points with a



bow, the free ends of said wire being brought into contact and cemented together and bent into circular form to pivot it around one of said parallel portions of the main body, said bow holding element being formed in a convex shape so that its tongue is adapted to engage the inner wall of the other cylindrical portion or side of the main body to be held against it by the resiliency of the bow holding element.

1,392,685. PLOW. JAMES FREDERICK HAMPSON, Edwin, Manitoba, Canada. Filed Jan. 4, 1919. Serial No. 269,629. 1 Claim. (Cl. 97—36.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

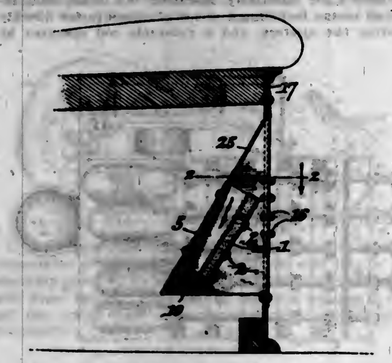


The combination with the beam of a walking plow, of a pair of side bars bolted to the forward end of the plow beam and extending in advance thereof, a hitching connection attached to the forward end of the bars, a side bracket secured permanently to one of the bars, a forward cross shaft carried in bearings provided on one of the bars and bracket, said shaft having a cranked end, a furrow wheel rotatably mounted on the cranked end of the shaft, a rear cross shaft rotatably mounted in bearings carried by the bracket, and one of the bars and having a cranked end, a land wheel rotatably mounted on the cranked end of the latter shaft and positioned at the opposite side of the plow beam to the furrow wheel, adjustable levers controlling the adjustment of the crank shafts and a spring acting upon the land wheel controlling lever.

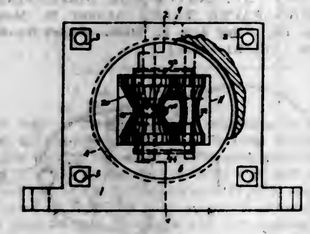
1,392,686. CAR-HEATER. LEE P. HYNDS, Albany, N. Y., assignor to Consolidated Car Heating Company, Albany, N. Y., a Corporation of West Virginia. Filed July 2, 1919. Serial No. 306,182. 7 Claims. (Cl. 219—34.)

1. An electric car-heater comprising a heater element having its wire adjusted for trolley-line voltage and embedded in a sheet of insulation located in an inclined

position, and a housing-wall spaced away from said element and having a portion parallel therewith for directing an air current over said element into the interior of the car.



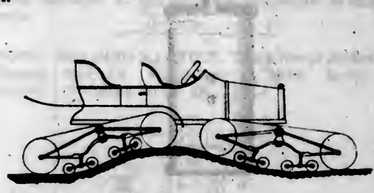
1,392,687. FAIR-LEADER. AARON J. JOHNSTON, Pysht, Wash. Filed Apr. 30, 1921. Serial No. 465,648. 2 Claims. (Cl. 254—190.)



1. A device of the class described, comprising in combination, a frame and an integral base consisting of two upright members of identical construction adapted to be bolted together, a circular opening through the side of each member, each provided with a circumferentially extending and interiorly facing recess adapted to aline and define a centrally located guideway for a cylindrical member mounted therein, a cylindrical member having a circumferentially extending upstanding section complementary to said recess and rotatable therein, said section provided with a plurality of recesses communicating with an opening in the top of the frame for manually rotating said cylindrical member, a central cable guide journaled in the cylindrical member and extending therethrough, comprising a sheave and guiding means adapted to retain a cable in operative position for winding on a drum and during change in angular positions of the sheave and cable.

1,392,688. AUTOMOBILE-SLEIGH SUSPENSION. ADOLPHE KEGRESSE, Courbevoie Seine, Russia. Filed Mar. 21, 1916. Serial No. 85,574. 10 Claims. (Cl. 180—5.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. In a motor vehicle driven by endless belts with load distributing rollers, a suspension system comprising in combination, a center axle, a load distributing and endless belt driving group arranged symmetrically at each side of the axle, a separate tension rod for pivoting each group to the said axle, a pair of load transmitting springs centrally attached to the axle, and a lever extending between each endless belt driving and load distributing group and on which lever the free ends of the said springs rest.



2. In a motor car driven by endless belts with load distributing rollers, a suspension system comprising in combination a center axle, endless belt driving mechanism symmetrically disposed on each side of the axle, a load distributing roller frame also symmetrically disposed on each side of the axle, arms connecting the load distributing roller frame to each of the driving mechanisms, a tension rod to enable each endless driving and load distributing device to pivot relatively to one another on each side of the axle and a pair of load transmitting springs, centrally attached to the axle, the free ends of the springs resting upon the arm connecting the driving mechanism and load distributing devices at each side.

3. In a motor car driven by endless belts with load distributing rollers, a suspension system comprising in combination a center axle, an endless belt driving mechanism and a load distributing roller mechanism both disposed on each side of the axle, means whereby each group may rotate around the center axle independently of the other and a pair of load distributing transmitting springs centrally attached to the axle and whose ends control the movements of the belt driving and load distributing devices hereinbefore specified.

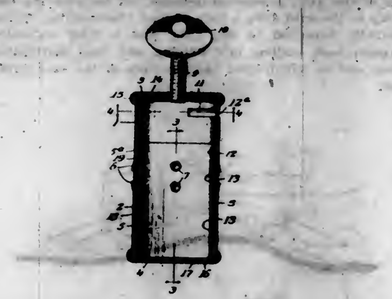
4. In a motor car driven by endless belts with load distributing rollers, an endless belt driving element, a load distributing quadrilateral roller frame hinged to the endless belt driving mechanism, tension rods extending between the center axle and the axle of the driving mechanism and a pair of load transmitting springs centrally attached to the axle and controlling the movements of the driving element and load distributing frame hereinbefore specified.

5. In a motor car driven by endless belts with load distributing rollers, a suspension system comprising in combination a center axle, endless belt driving mechanism symmetrically disposed on each side of the axle, a load distributing frame connected with the axle of each driving mechanism, rollers mounted in the load distributing frame and engaging with the lower stretch of the endless belt, beams centrally disposed of the load distributing frame, a connection between said beam and the axle of its adjacent belt driving mechanism, a pair of load distributing springs centrally attached to the axle and whose free ends rest upon the said connections extending between the load distributing frame and the driving mechanism.

1,392,689. SMALL-COIN BANK. ISIDOR J. KUSEL, Chicago, Ill. Filed Jan. 20, 1919. Serial No. 271,956. 1 Claim. (Cl. 133—7.)

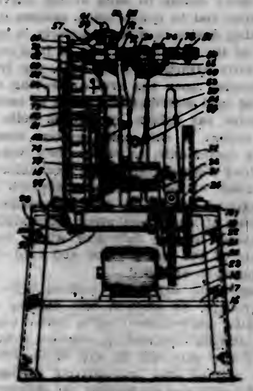
In a coin bank in combination, a container composed of two separably connected closed sections, each comprising substantially a half portion of the complete container, means for normally frictionally maintaining the sections connected, a coin entrance slot in the side wall of one of

said sections near the outer end thereof, an inner shell in one of the sections extending into the slotted section,



and means carried by said shell and extending across said slot for preventing extraction of the coin contents.

1,392,690. FRUIT-PITTING MACHINE. CHESTER S. LEONARD, Lansdowne, Pa. Filed May 5, 1921. Serial No. 466,923. 8 Claims. (Cl. 146—6.)



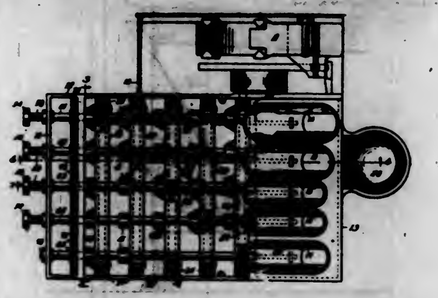
1. A fruit pitting machine comprising a stand, a carrier wheel having grooves in its periphery mounted on said stand, means for intermittently actuating said wheel, a table from which fruit is fed to said wheel, means for clamping the fruit in the mentioned grooves, and means for expelling the pit from the fruit while clamped.

1,392,691. SELECTIVE CHANGE-MAKING MACHINE. JOHN E. LEWIS, Milwaukee, Wis. Filed Nov. 8, 1915, Serial No. 60,190. Renewed Oct. 29, 1919. Serial No. 334,374. 14 Claims. (Cl. 122—2.)

1. In a machine of the character described, the combination with keys denoting the amounts for which change is to be made, of keys corresponding to the number of units of the commodity being sold, and adjustable means between said keys corresponding to changes in price per unit of said commodity, whereby the amount of change delivered will be correspondingly varied.

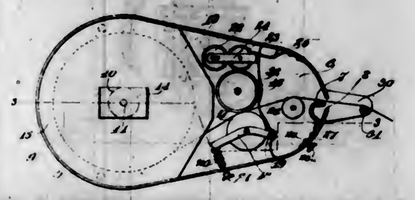
5. In a machine of the character described, the combination with a plurality of keys indicating different monetary values, of a plurality of digital keys, coin ejecting means, and selective variable means interposed between and cooperating with the ejecting means and said sets of keys.

14. In a change making machine, the combination with coin ejectors and amount tendered keys, of purchase keys, and means interposed between said purchase keys and the ejectors for selectively operating the latter, said interposed means including a series of elements for directly actuating the ejectors, and a rotatable rod operated by



each of the purchase keys, each of said rods having a series of elements thereon rotatable to different positions for selectively engaging said members, a rotatable purchase value indicator, and gearing between said value indicator and said rotatable elements arranged, upon rotation of the value indicator, to indicate different values, to correspondingly change the position of said elements.

1,392,692. APPARATUS FOR DISPENSING AND PRINTING PAPER TAPE. ALBERT H. MARSHALL, Chicago, Ill. Filed Jan. 12, 1920. Serial No. 351,039. 1 Claim. (Cl. 91—14.5.)



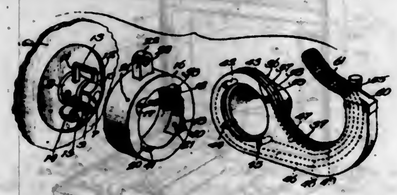
The combination of a casing having a side exit slit and a bottom depression adjacent to said slit, a tape moistening wiper strip in the casing behind the exit slit and extending into the depression, a support for the wiper strip carried by the casing wall and adjustably in the direction of the exit slit, and a tape-holder and printing means for the tape in the casing.

1,392,693. GROUSER FOR TRACTOR-TREADS. FRED H. MEYER, Oakland, Calif. Filed Dec. 24, 1918. Serial No. 268,188. 3 Claims. (Cl. 301—42.)



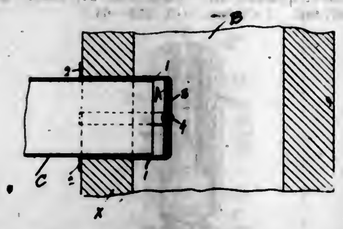
3. A grouser adapted to be attached to the tread face of a traction element and including a rotary bar having radial webs and end lugs, and sets of links connected to said lugs and for attachment to the traction element.

1,392,694. TIMER FOR INTERNAL-COMBUSTION ENGINES. JOHN F. MEYER, Chicago, Ill., assignor, by mesne assignments, to Eclipse Specialty Manufacturing Company, a Corporation of Illinois. Filed Sept. 10, 1917. Serial No. 190,477. 2 Claims. (Cl. 200—19.)



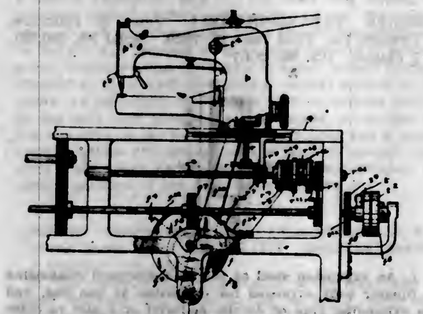
1. In a timer, the combination with a gear case, of a commutator ring removably mounted on said case, a cap separably mounted on said ring and having a conduit arm with wires therein, and coupling members upon said ring and cap which hold same together and connect them electrically.

1,392,695. FUEL-SAVING DEVICE. FRANK S. MILLER, St. Louis, Mo. Filed Aug. 12, 1920. Serial No. 403,106. 1 Claim. (Cl. 126—285.)



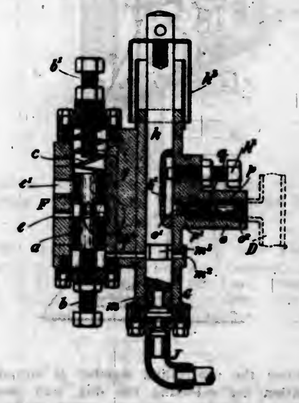
A draft reducer for stove pipes, consisting of a sheet metal disk that is adapted to be stationarily mounted inside of a flue opening opposite to and spaced away from the inner end of a stove pipe that projects into said opening through one wall of the flue, a plurality of right angularly-disposed arms on said disk that extend longitudinally of the stove pipe between said pipe and the opening in the flue wall through which the stove pipe projects, and laterally-projecting portions on the ends of said arms that lap over the front side of said flue wall and thus prevent said disk from moving away from the end of the stove pipe.

1,392,696. CONTROLLING DEVICE FOR STITCHING MECHANISM, &c. GEORGE E. MOLYNEUX, Bayonne, N. J. Filed Dec. 1, 1917. Serial No. 204,971. 7 Claims. (Cl. 112—219.)



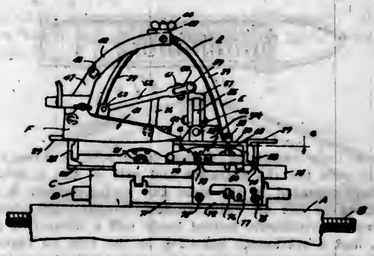
1. In an apparatus of the character described, the combination of stitching mechanism, means to reciprocate the stitching mechanism continuously through a predetermined movement including a cam wheel, means to operate the stitching mechanism, electromagnetic controlling devices for the operating means and devices operated with said cam wheel for determining the operation of the controlling devices, whereby the reciprocation of the stitching mechanism is continuous through a predetermined movement and the operation of the stitching mechanism is discontinuous.

1,392,697. MOLDING-MACHINE. JOHN BIRCH NEEDHAM, Glasgow, Scotland. Filed June 10, 1919. Serial No. 303,106. 7 Claims. (Cl. 251—164.)



3. In a molding machine of the type specified, a casing, a cylindrical extension in connection therewith, a pilot valve in said casing, a piston in said extension, means whereby fluid under pressure may be admitted to said extension for operating said piston and means in connection with said piston for positively locking said pilot valve on the operation of the piston.

1,392,698. AUTOMATIC CUTLERY-GRINDER. OSVILLE P. NORMAN, Los Angeles, Calif., assignor of one-half to Lester Alice Winter, Los Angeles, Calif. Filed July 6, 1920. Serial No. 394,115. 15 Claims. (Cl. 51—224.)

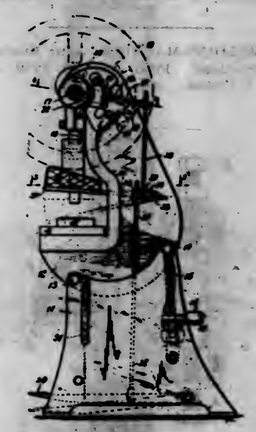


1. In a cutlery grinding mechanism, the combination of a reciprocating carriage, a clamp for the cutlery adapted to present the blade to the grinding tool, and means operated by reciprocation of the carriage to swing the clamp through the arc of a circle at a point in its travel so as to grind a curved edge.

1,392,699. SAFETY-GUARD FOR PRESSES. HERMAN OSWALD, Richmond Hill, N. Y., assignor to The V. & O. Press Company, a Corporation of New York. Filed Apr. 15, 1918. Serial No. 228,565. 8 Claims. (Cl. 74—105.)

1. A punch press having an operating shaft, a power member, a dog movable on the operating shaft in the

direction of the axis of the shaft into engagement with the power member to connect the power member to the shaft, a controlling member for positioning the dog, means for moving the controlling member outwardly from the shaft to release the dog, a guard connected to the controlling member so as to be moved to its operative



position when the controlling member is moved to its outer position for releasing the dog, and means for holding the controlling member in substantially the position to which it is moved to release the dog during substantially a half revolution of the operating shaft; substantially as described.

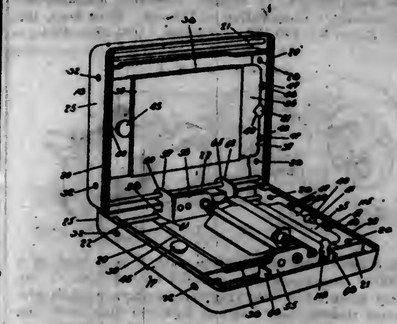
1,392,700. LUNG-EXERCISING DEVICE. HENRY M. OTEN, Chicago, Ill. Filed Sept. 21, 1920. Serial No. 411,718. 3 Claims. (Cl. 128—27.)



1. A lung exercising device comprising a tube open at its ends for the entrance and exit of air, a plunger slidably mounted in the tube and spring-pressed in the direction of the air entrance end thereof, said plunger having longitudinally spaced heads and a connecting portion, and a stationary partition in the tube on opposite sides of which the plunger heads are located, the partition having an aperture through which the connecting portion of the plunger head passes, said connecting portion having means for closing the partition aperture at the limits of the sliding movement of the plunger, and the plunger heads having air passageways of restricted area.

1,392,701. RAZOR-BLADE SHARPENER. DANIEL B. PERKINS, Providence, R. I. Filed Oct. 20, 1919. Serial No. 332,110. 15 Claims. (Cl. 51—65.)

6. In a razor blade sharpener, a carriage, an oscillatory blade holder pivotally mounted in the carriage, bodily reciprocable frames on opposite sides of the carriage, abrasive elements in the frames coöperating with



the blade holder, and means operated by the frames for actuating the blade holder.

1,392,702. DRILL-CHUCK OR THE LIKE. JOHN H. PHILLIPS, Chicago, Ill. Filed Feb. 27, 1920. Serial No. 361,903. 7 Claims. (Cl. 255—64.)



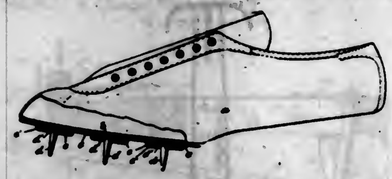
1. In a drill chuck of the kind described and in combination, a shank having a head constructed to engage a drill, and a drill supporting member adapted to surround said drill and slidable on said shank away from said drill.

1,392,703. EXPANSION-SHELL. JOHN H. PHILLIPS, Chicago, Ill. Filed June 18, 1920. Serial No. 389,891. 7 Claims. (Cl. 85—2.4.)



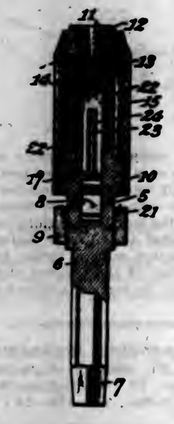
1. An expansion shell of the kind described comprising a tubular body arranged for expansion at one end, and an expanding plug of ductile material of a size to enter the bore of the body.

1,392,704. ATHLETIC SHOE. GEORGE L. PIMACI, Brooklyn, N. Y., assignor to A. G. Spalding & Bros., New York, N. Y., a Corporation of New Jersey. Filed Feb. 10, 1921. Serial No. 442,784. 2 Claims. (Cl. 36—59.)



1. A light, flexible, athletic shoe having a flexible outer sole of leather, a spike having a broad flat head resting upon the outer sole and a tap of leather through which the spike extends and of slightly greater width than the head sewed directly to the outer sole to confine the head of the spike and hold it on the outer sole whereby compression strains on the spike are transmitted to the face of the outer sole.

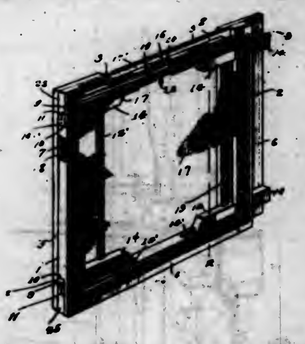
1,392,705. RETHREADING-TOOL. DANIEL S. RHODES, Gloversville, N. Y. Filed Oct. 25, 1920. Serial No. 419,166. 7 Claims. (Cl. 10—128.)



7. A rethreading tool, comprising a body portion bifurcated by a diametrical slot and having outer conical surfaces at the ends of the branches of the bifurcation, a sleeve adjustably held on the body and having an internal conical surface adapted to act on the conical ends of said branches, jaws fitted to slide longitudinally in the slot and provided at their outer ends with internal screw thread cutting teeth and external conical surfaces adapted to coact with the internal conical surface of the sleeve, an adjustable nut on the stem or reduced portion of the body and having a recess formed in its end for the reception of the inner ends of the jaws and a spring acting against the insides of the jaws to spread their outer ends apart and to maintain contact between the conical portions of the jaws and the sleeve.

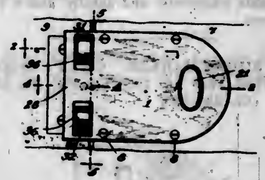
1,392,706. WINDOW-SCREEN. CHARLES ROCHON, Fall River, Mass. Filed June 11, 1921. Serial No. 476,925. 2 Claims. (Cl. 156—27.)

2. The combination with a window screen frame and its fabric covering, the frame having its upper corner rabbeted at the side next the fabric and having egress openings formed therethrough between it and the fabric, of a plate slidably mounted in the rabbet and having cutaway portions registerable at times with the egress open-



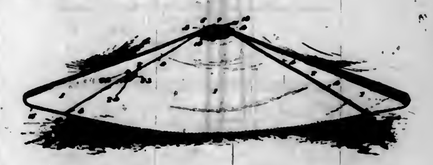
ings and an actuating handle carried by the plate, the rail having a slot through which the handle depends.

1,392,707. LOCK. SAMUEL SEGAL, New York, N. Y., assignor to Segal Metal Products Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Jan. 17, 1920. Serial No. 352,066. 4 Claims. (Cl. 70—14.)



1. In a lock, a casing, a bar, a connecting bar rigidly joining said first-named bar and said casing, a keeper, a locking bolt adapted to interlock with said keeper and said first-named bar and means on said keeper adapted to interlock with said connecting bar.

1,392,708. KNOCKDOWN BROODER-CANOPY. HENRY M. SHEEN, Quincy, Ill. Filed May 14, 1920. Serial No. 381,320. 7 Claims. (Cl. 119—31.)

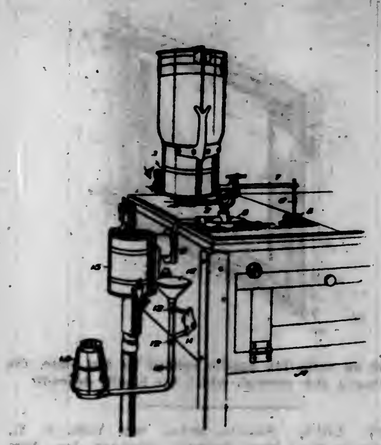


1. A knockdown canopy including sections mitered and interlocked at their edges and made substantially flush on their outer surfaces, the canopy thus formed having an opening at the apex, a ring fitted to and dropped into said opening and substantially fitting the surrounding outer surface, and forming a seat at its inner end, and a damper removably supported on said seat.

1,392,709. HEATER FOR INCUBATORS. HENRY M. SHEEN, Quincy, Ill. Filed July 10, 1920. Serial No. 395,422. 5 Claims. (Cl. 158—42.)

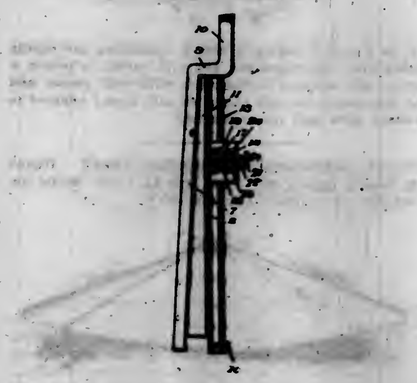
1. A heater for incubators including an oil feed pipe made in at least two parts or sections, one of which feeds

into the other, an oil font, valve and regulator in fixed relation to one pipe section, the other section of oil feed



pipe adjustable lengthwise and axially, and a burner connected thereto.

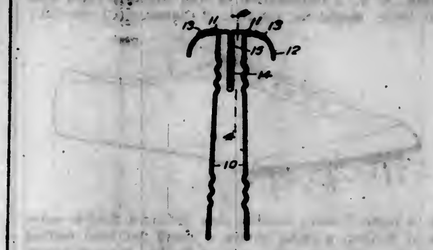
1,392,710. SIDING-MARKER. CARL F. SHONG, Wichita, Kans. Filed June 16, 1920. Serial No. 389,401. 3 Claims. (Cl. 33—33.)



1. A siding marker having legs to fit astride a siding board, a slide movable along one leg, and marking elements carried by said slide and adapted to mark the siding along both edges of said leg.

1,392,711. HAIRPIN. CLARA B. SITE, Washington, D. C. Filed Feb. 22, 1921. Serial No. 447,046. 1 Claim. (Cl. 132—52.)

A hairpin comprising spaced tines, an integral crossbar spanning the interval between and extending laterally beyond the tines at one end, being folded upon itself and twisted outside of the lines of the tines with the folded



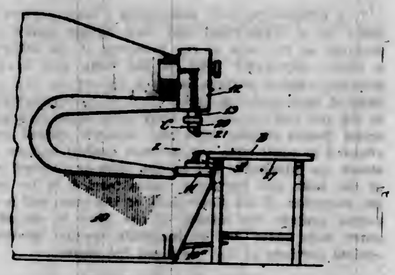
ends curved toward the opposite ends of the tines and their component parts positioned broadside toward the tines.

1,392,712. FASTENER FOR HANDBAGS. MAX SLOANE, Brooklyn, N. Y., assignor to Sloane Brothers, Brooklyn, N. Y., a Copartnership composed of Max Sloane and Nathan Sloane, Brooklyn, N. Y. Filed Nov. 16, 1920. Serial No. 424,380. 5 Claims. (Cl. 292—145.)



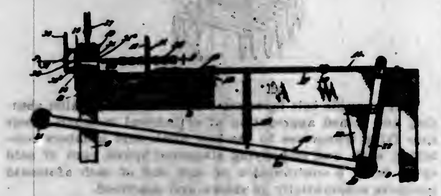
1. A bag frame comprising hingedly connected members movable to the open or the closed position, a fastener disposed transversely on one frame member and projecting beyond the same to center the other frame member, said frame members having longitudinal slots, and said fastener being movable in said slots to the fastening or the release position; together with a spring pressing against a longitudinal surface of the fastener and exerting friction on said fastener to prevent accidental sliding of the same.

1,392,713. WIRE-BENDING APPARATUS. JAMES D. SMITH, Chicago, Ill., assignor of one-half to Franklin P. Smith, Chicago, Ill. Filed June 30, 1920. Serial No. 392,978. 7 Claims. (Cl. 140—24.)



1. Wire bending apparatus for the purpose specified, comprising an anvil for holding wire mesh fabric, a wire bending tool having wire bending fingers formed with diverging faces arranged to engage and bend the end portions of the wires of the wire mesh fabric into substantially parallel relationship, and means for actuating said tool.

1,392,714. WIRE-INSERTING MECHANISM FOR WIRE-MESH FABRICATED MATERIAL. JAMES D. SMITH, Chicago, Ill., assignor of one-half to Franklin P. Smith, Chicago, Ill. Filed June 30, 1920. Serial No. 392,979. 6 Claims. (Cl. 29—1.)



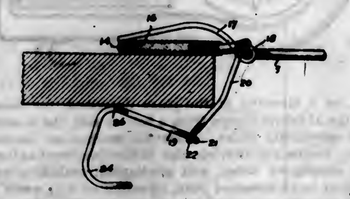
1. Apparatus for use in assembling wire mesh fabric with frame bars, comprising a wire guide having tapering wire guiding eyes, an inserter bar having wire mesh engaging fingers, and actuating means for said inserting bar.

1,392,715. KEY-RING CLIP. JOHN L. SOMMER, Newark, N. J., assignor to J. L. Sommer Manufacturing Co., a Corporation of New Jersey. Filed July 23, 1921. Serial No. 486,938. 5 Claims. (Cl. 24—3.)



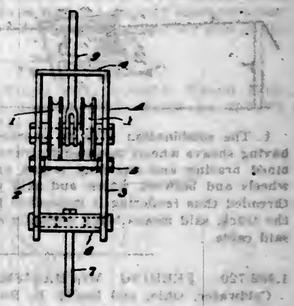
1. A key ring clip having a body portion and spring tongues returned from the ends of the body portion on opposite sides thereof and extending each past the free end of the other, the three overlapping portions being bent as a unit to form tortuous passageways.

1,392,716. BAG-SUPPORT. MARY C. SPRAGGINS, Jersey City, N. J. Filed Mar. 12, 1921. Serial No. 451,854. 4 Claims. (Cl. 83—26.)



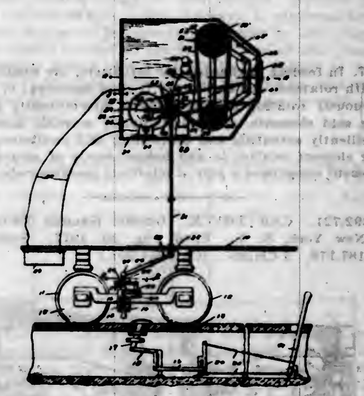
1. A support for a bag comprising a ring member for maintaining said bag open at one end, said ring member comprising a pair of arc-shaped sections, a pair of hinge structures for connecting said sections together, said hinge structures being substantially U-shaped in cross section with a pintle extending through each end of each of said sections, said pintles being set in from the end a sufficient distance so that the ring sections may swing together in one direction and move to an open position in the opposite direction and a clamp connected with one of said ring sections for clamping the ring sections to a support.

1,392,717. PULLEY. CHARLES A. STONER, Toledo, Ohio. Filed Aug. 28, 1920. Serial No. 406,883. 1 Claim. (Cl. 254—197.)



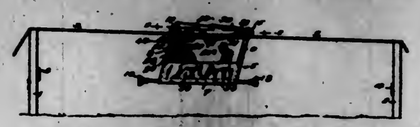
A device of the class described comprising a casing formed of two side plates, with the upper portion of one side plate bent over to form a top, said top having openings therein for the passage of the cables, bolts holding the side plates in spaced relation, a sheave-carrying shaft passing through the side plates, a sleeve carried by the bolt at the lower end of the plates, a hook carried by said sleeve and a supporting hook passing through one of the holes in the top and connected with the sheave-carrying shaft.

1,392,718. STATION-INDICATOR. LAMONT H. STROUD, Sheridan, Wyo. Filed Apr. 23, 1919. Serial No. 292,128. 2 Claims. (Cl. 40—53.)



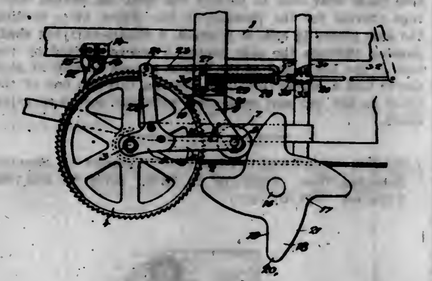
1. An indicator including, a pair of spools, an indicator cloth wound about said spools, an electric motor, a gear having connection with said motor, a pair of contacts, a source of electrical energy having connection with said motor and said contacts, a control arm pivotally carried by said gear and extending radially from the center of the same, said control arm normally engaging one of said contacts, spring means for retaining said control arm in engagement with one of said contacts, and an operating rod adapted for disengaging said control arm from one of said contacts whereby a circuit may be completed to said electrical energy and said motor for rotating said gear and operating said indicator cloth.

1,392,719. ELEVATED COASTING APPARATUS. PATRICK MARVIN SWAIM, Lonoke, Ark. Filed Dec. 21, 1920. Serial No. 432,170. 6 Claims. (Cl. 104—112.)



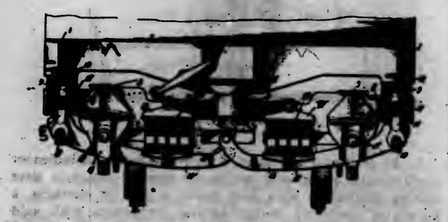
1. The combination with an overhead cable; of a car having sheave wheels mounted to travel thereon, and combined bracing and guarding means arranged below said wheels and between which and said wheels the cable is threaded thus rendering it impossible for the car to jump the track, said means being normally out of contact with said cable.

1,392,720. FEEDING MECHANISM. HENRY SYNCK, Coldwater, Ohio, and BRUCE B. ROLLMAN, Pittsburgh, Pa., assignors, by mesne assignments, to The New Idea Spreader Company, Coldwater, Ohio, a Corporation of Ohio. Filed June 4, 1918. Serial No. 238,331. 9 Claims. (Cl. 74—64.)



7. In feeding mechanism for fertilizers, the combination with rotatable and oscillatory feeding elements; of a continuously rotating driving element intermittently actuating said elements, and longitudinally movable means for resiliently actuating and controlling said oscillatory feeding element relative to and independently of said driving element comprising a pair of relatively movable rods.

1,392,721. CAR-TRUCK. GEORGE KRAMER THOMPSON, New York, N. Y. Filed Aug. 20, 1917. Serial No. 187,178. 5 Claims. (Cl. 105—201.)



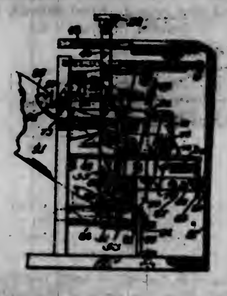
1. In combination with a car body, equipped with a pending king bolt, and a truck, cantalivers pivotally connected at their inner ends and pivotally connected to the truck and having their outer ends in connection with the car body, resilient means arranged between said cantalivers and car body, intermediate said pivot points, and springs interposed between said resilient means and king bolt to absorb shock of lateral thrust from the car body.

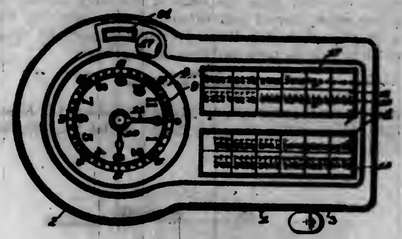
1,392,722. BELT-FASTENER. ELMER A. THURSTON, Chippewa Falls, Wis. Filed June 9, 1920. Serial No. 387,712. 3 Claims. (Cl. 24—36.)



1. A metallic belt fastener, consisting of a parallel abutting and joined aggregation of cylindrical members, their axes lying transverse to the belt joint, said members combining with, and embodying staggered spurs, each of said spurs being a continuation of each end of each aforesaid members substantially as shown and described.

1,392,723. FABRIC-MEASURING AND COST-COMPUTING MACHINE. DOUGLAS TURNER, St. Louis, Mo., assignor to The Measuregraph Company, St. Louis, Mo., a Corporation of Missouri. Filed July 21, 1919. Serial No. 312,239. 21 Claims. (Cl. 33—123.)

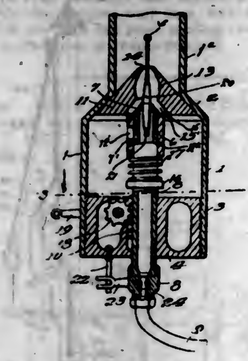




1. In a machine of the class described, for measuring lengths of fabric drawn from a bolt or roll, the combination of a measuring roller, indicating mechanism including a scale, means for driving the indicating mechanism from said measuring roller, and mechanism including an independent hand-actuated part, operated at will when a remnant is to be measured, for increasing the reading of the indicating mechanism at said scale.

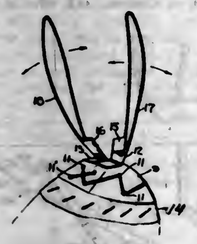
1,392,724. CARBURETER FUEL CONTROL. VICTOR H. WASSERLEIN, New York, N. Y., assignor to Wasserlein, Frees Company, Inc., a Corporation of New York. Filed Apr. 9, 1917. Serial No. 160,776. 2 Claims. (Cl. 261—50.)

1. In a carbureter, a casing, the lower portion of which serves as an air chamber, a fuel nozzle slidable within the casing, an air valve mounted on the fuel nozzle and having a mixing chamber communicating with air ducts formed therein, said fuel nozzle normally extending within the mixing chamber, a pin on the fuel nozzle for limiting its movement with respect to the air valve, said air valve



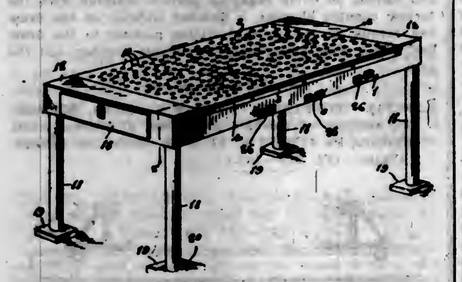
cooperating with said nozzle for cutting off the air supply at the termination of the upward movement of the fuel nozzle, and a compensating valve for controlling the flow of fuel from said fuel nozzle.

1,392,725. TOY ANIMAL. MABEL WATERMAN, New Rochelle, N. Y. Filed Feb. 19, 1920. Serial No. 359,836. 6 Claims. (Cl. 46—40.)



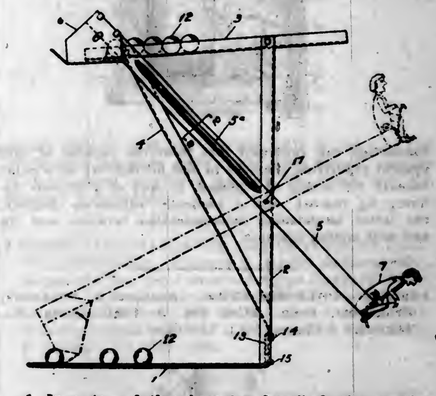
1. In a stuffed animal toy and in combination the stuffed body, a rigid cap upon the head, a pair of hinges fixed to the cap, ear supports fixed to the hinges, and ears carried by said supports.

1,392,726. EDUCATIONAL BOARD. VERNA O'NEAL WATKINS, Atlanta, Ga. Filed Dec. 27, 1918. Serial No. 268,445. 1 Claim. (Cl. 35—12.)



An educational device for simulating a drawing table in kindergarten work comprising a box adapted at its corners to receive legs and provided with a hinged cover, legs adapted to fit within the box and to be inserted at the corners to form a table, the cover perforated throughout a major portion of its area with relatively small juxtaposed holes, pegs adapted to fit the holes whereby characters may be formed upon the table top by inserting the pegs in the perforations.

1,392,727. MECHANICAL TOY. CLYDE L. WELSH, Pittsburgh, Pa. Filed Aug. 25, 1920. Serial No. 405,939. 2 Claims. (Cl. 46—37.)



1. In a toy of the character described, the combination of a base; a standard detachably connected to said base; an inclined runway; a plurality of marbles carried in said runway; a keyhole shaped aperture, of smaller size than the dimension of said marbles, provided adjacent the lower end of said runway; a balancing-beam pivotally supported intermediate its ends by said standard; a bucket secured at the forward end of said beam; a depending tongue bent upwardly in the bottom of said bucket for protrusion through the aperture in said runway, and an inclined discharge spout at the forward end of said bucket.

1,392,728. OIL-COCK WRENCH. WILLIAM H. WESTMAN, ALFRED D. WESTMAN, and JAMES N. RICHARDS, Chatham, Ontario, Canada. Filed Feb. 12, 1921. Serial No. 444,573. 1 Claim. (Cl. 137—139.)

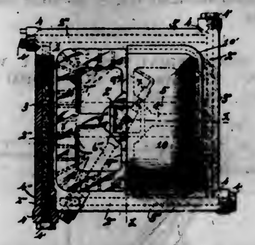


An iron rod placed horizontally with one end thereof bent downward at right angles, then bent forward and upward to an angle of 25° more or less sidewise, but parallel with the front face of the vertical part turned down, then projected straight for ¼" more or less, then bent sidewise and downward parallel with the inclined part thus forming two lugs leaving sufficient space between said lugs for the insertion of the oil cock handle.

1,392,729. FUEL-VAPORIZING HEATER. SAMUEL L. WHITRIGHT, New Haven, Conn. Filed Sept. 26, 1919. Serial No. 326,643. 4 Claims. (Cl. 158—69.)

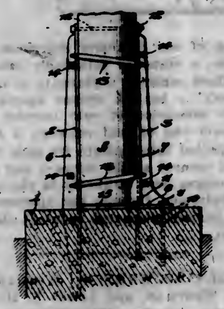
1. A fuel-vaporising heater comprising a burner fitted with a base mainly surrounded marginally by a general vaporising chamber composed of a plurality of straight angularly-intersecting, open-ended units constituting a general vaporising chamber, and having a casing formed integral therewith and depending therefrom, the interior

of said casing constituting a mixing chamber; plugs removably closing the open ends of said units; a general base detachably supporting said burner; a supply pipe for conducting fuel in a fluid state to and into the general vaporizing chamber aforenamed; a feed-pipe for



conducting the vaporized fuel from the interior of said general vaporizing chamber to and for delivery at a point beneath the casing aforenamed, by way of a suitable delivery tip thereat; and a vertically adjustable chimney, the latter establishing communication between said tip and said mixing chamber.

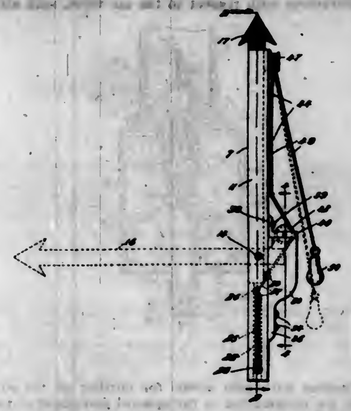
1,392,730. POLE-MOUNTING. ROLLAND G. WILLIAMS, Bridgeport, Conn. Filed Feb. 5, 1921. Serial No. 442,624. 3 Claims. (Cl. 72—84.)



2. In a pole mounting, a base, a pair of vertical supports secured at one end to the base, each support being transversely curved and having a vertical rib extending outwardly from the center of the outer side of the curved part thereof, a pole between the supports, the curved parts of the supports conformably engaging the pole, and integral semi-circular rods engaged with the pole and over the curved parts of the supports and extending through the ribs and having nuts on their ends abutting the exposed side faces of the ribs to draw the supports against the pole.

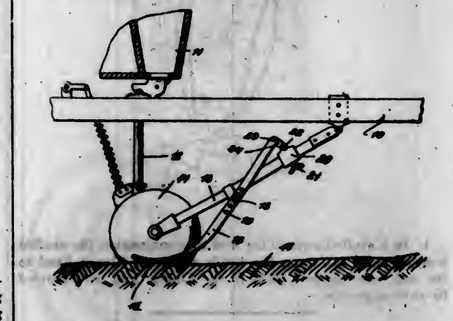
1,392,731. AUTOMOBILE-SIGNAL. WILLIAM WILLIS, Pawtucket, R. I. Filed May 21, 1921. Serial No. 471,343. 1 Claim. (Cl. 116—52.)

In a device of the character described, a shaft provided with a longitudinal recess extending from an intermediate portion to its top and one side, and with a vertical hole extending downwardly from the recess, an indicator arm pivotally mounted at a short distance from one end in the lower portion of the shaft normally seated in the recess, a helical spring in the hole, a pin on the lower portion of the hole engaged with the lower end of the spring, an eye on the side of the arm carrying the other end of the spring, said shaft being provided with a lateral slot to permit the passage of the spring, and allow play for the inner end of said arm, a pulley on the shaft above the eye, guides on the shaft above



the pulley, a second pulley on the shaft above the guides, and a flexible member attached to the eye and engaging the pulleys and the guides.

1,392,732. GRAIN-DRILL ATTACHMENT. HENRY ZARMSTORF, Flint, Mich. Filed Apr. 14, 1920. Serial No. 373,899. 2 Claims. (Cl. 97—14.)



2. The combination with a grain drill including a draw bar carrying a furrow opening element, of an arm movably coupled intermediate its ends to the draw bar and having an earth engaging portion coacting with the furrow opening element, a member slidable on the draw bar, means for locking said sliding member to the draw bar, and a link connecting the slidable member and the arm.

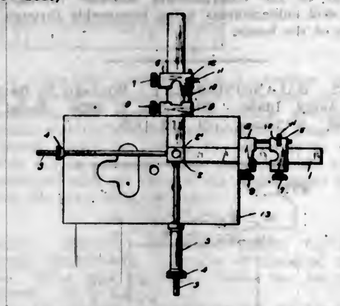
1,392,733. TIE-PLATE. GILBERT L. ADAMS, Eldorado, Pa., assignor of one-half to Charles F. Brown, Hollidaysburg, Pa. Filed Dec. 17, 1919. Serial No. 345,458. 1 Claim. (Cl. 238—288.)



A device of the class described including a plate, a clip having a base overlapping the base flange of a rail,

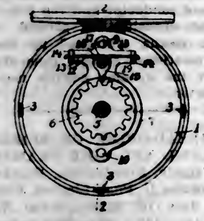
said plate having a slot extending inwardly, a fastening member depending from the base through said slot and under the plate, a support for the tread flange of the rail rising from the base, said fastening member serving to rigidify the support and base, and fastening means common to the base and plate passing therethrough opposite the support and fastening member.

1,392,734. INSTRUMENT OF PRECISION. REUBEN A. ALDREN and SWAN HILLMAN, Rockford, Ill. Filed July 7, 1920. Serial No. 394,455. 3 Claims. (Cl. 33—189.)



1. An instrument of precision comprising two arms extending at a right angle to each other provided with an opening having the center thereof in alinement with the median longitudinal dimensions of said arms, work-engaging blocks adjustably mounted upon said arms, rods extending from said arms having their median longitudinal dimensions in alinement with the median longitudinal dimensions of said arms and in alinement with the center of said opening, and adjustable work engaging members mounted on said rods.

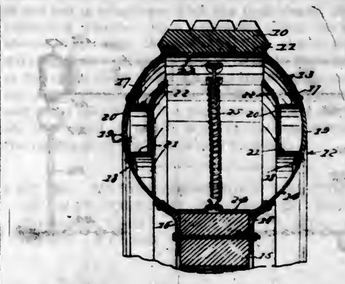
1,392,735. FISHING-REEL. LEONARD ATWOOD, Boston, Mass. Filed June 9, 1920. Serial No. 387,772. 5 Claims. (Cl. 242—84.6.)



1. A fishing reel having a spool provided with a pinion, a pivotally supported detent engaging said pinion, the detent having a flattened portion, and a length of spring supported at its ends and pressing at its mid-length against said flattened portion, whereby the resistance to oscillation given to the detent is equal in both directions.

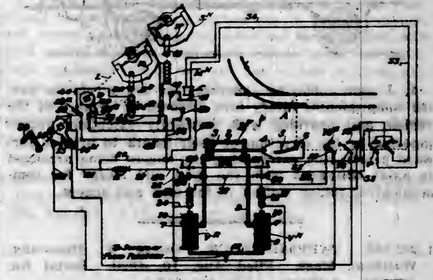
1,392,736. WHEEL-TIRE. THOMAS BAGNELL, Hemmingford, Quebec, Canada. Filed Oct. 25, 1918. Serial No. 259,669. 1 Claim. (Cl. 152—37.)

A wheel tire having tread and rim members of substantially semi-circular contour in cross section and interposed resilient means housed thereby, said members being provided on both sides and adjacent their proximate edges with inturned annular flanges paralleling each other throughout their perimeters, the flanges on one member being formed with annular guards at their inner edges, the said annular guards extending approxi-



mately parallel with the exterior wall of the tire and overlapping the inner edges of the other flanges, whereby relative lateral movement between the tread and rim members is precluded.

1,392,737. APPARATUS FOR THE CONTROL OF RAILWAY-SWITCHES. CHARLES R. BEALL, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Continuation of application Serial No. 320,691, filed Aug. 29, 1919. This application filed Nov. 1, 1920. Serial No. 420,876. 9 Claims. (Cl. 246—135.)



5. In combination, a railway switch having normal and reverse positions, a normal and a reverse magnet, means controlled by said magnets for moving said switch to normal or reverse position according as the normal or the reverse magnet is energized, a lever having normal and reverse positions as well as normal indicating and reverse indicating positions, means controlled by said lever and said switch for energizing said normal magnet when the lever is in normal to normal indicating positions and the switch is not in normal position and for de-energizing said normal magnet when the switch reaches the normal position, and means controlled by said lever and said switch for energizing said reverse magnet when the lever is in reverse to reverse indicating positions and the switch is not in reverse position and for de-energizing said reverse magnet when the switch reaches the reverse position.

1,392,738. DRAFT-EQUALIZER. ANGUS BEATON, Vulcan, Alberta, Canada. Filed Jan. 7, 1921. Serial No. 435,685. 1 Claim. (Cl. 54—1.)

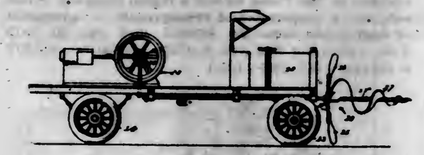
A draft equalizer for use with a pole team comprising a tug pivotally mounted on the hame, a member riveted at one end to an intermediate portion of said tug and having its free end bent so as to extend parallel to the tug, a curved arm having one end extending between the

free end of said member and the tug and provided at its central portion with means to receive the end of a trace of the pole team and provided with means below the



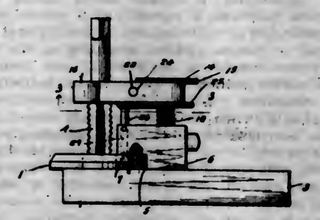
means that receive said trace of the pole team for receiving the ends of similar traces of the lead teams and means for pivotally mounting said arm.

1,392,739. SNOWPLOW. HANS J. BRENOW, Fond du Lac, Wis. Filed July 9, 1920. Serial No. 394,980. 2 Claims. (Cl. 37—43.)



1. A snow removing apparatus for motor vehicles having complemental rotary fans disposed in advance of the vehicle and provided with forwardly extending augers tapering in the direction of their length to provide forward penetrating extremities, the augers being arranged in axial alinement with the fans, and means for communicating rotary motion to the fans and augers.

1,392,740. TAPPING-BLOCK. OSCAR W. BERGGREN, Waltham, Mass. Filed Aug. 10, 1920. Serial No. 402,575. 6 Claims. (Cl. 10—147.)



1. A tapping block comprising a base having a central opening to receive a tapping tool, a block secured to said base, and tool guiding jaws adjustably connected to the block and adapted to be applied to the upper portion of the tapping tool.

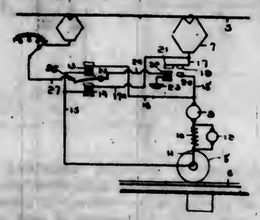
1,392,741. MOP. THOMAS L. BONSALL, Ottawa, Ontario, Canada. Filed Feb. 7, 1921. Serial No. 443,150. 7 Claims. (Cl. 15—56.)

1. In mop construction, a frame having hooked end portions, the openings of said hooks being smaller than the space within the hooks, and a mop cloth having enlargements at the ends thereof insertible by longitudinal



movement of the enlargements sidewise through the hoooks, said enlargements being impassable through the openings of the hooks.

1,392,742. BALANCING-RELAY. WILLARD E. BRANTIGAM, Avery, Idaho. Filed Jan. 2, 1920. Serial No. 348,888. 2 Claims. (Cl. 172—179.)



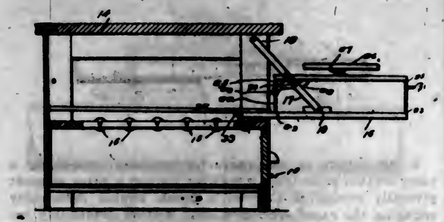
1. In a device of the character described, overhead and ground conductors, a dynamo electric machine, an electrical connection on one side of the dynamo electric machine connected with the ground conductor, opposed electro-magnets, electrical connections between one of the electro-magnets and the ground and overhead conductor, means electrically connecting the other magnet with the ground conductor and the pole of the dynamo electric machine opposite the ground conductors, an armature associated with the electro-magnets and operated thereby, the first mentioned magnet being normally energised, normally spaced contact elements connected respectively with the overhead conductor and the pole of the dynamo electric machine opposite the ground conductor, and electro-magnetic means controlled by the armature to move the last mentioned contact elements together and directly connect the dynamo electric machine with the overhead conductor.

1,392,743. THREAD-GUIDE OF SPINNING, TWISTING, DOUBLING, AND LIKE FRAMES. GEORGE F. BULL, Small Heath, Birmingham, England, assignor of one-half to Charles H. Pugh Limited, Birmingham, England. Filed July 10, 1920. Serial No. 395,413. 3 Claims. (Cl. 242—157.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In thread-guide lappers for spinning, twisting, doubling and like frames the combination with a thread guide wire formed with a worm rack engaged by a rotatable worm by which the guide wire can be adjusted longitudinally, of a spring which exerts a lateral pressure upon the worm in order to retain the guide wire in its adjusted position, substantially as described.

1,392,744. TYPEWRITER-DESK. FRED. M. CLOUGH, Bryant, S. D. Filed Oct. 29, 1919. Serial No. 334,114. 3 Claims. (Cl. 45—52.)

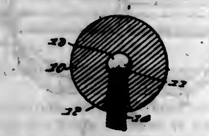


1. A typewriter cabinet having a receiving compartment, a drawer platform movable into and out of the compartment and carrying a vertically movable table connected with the platform by horisontally hinged swinging leaves, means for locking the leaves in an upright position and an extensible brace connecting the platform at midlength with the walls of the compartment for supporting the same when extended.

1,392,745. METHOD OF RECOVERING VANADIUM FROM SOLUTIONS. LEONARD S. COPELIN, Millers, Nev. Filed May 28, 1920. Serial No. 385,025. 7 Claims. (Cl. 23—13.)

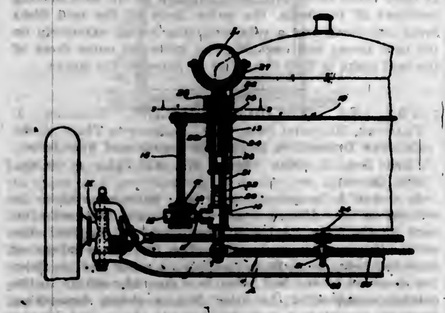
1. In the treatment of solutions for the recovery of vanadium the addition of a magnesium salt.

1,392,746. CAP FOR VALVE-TUBES. DAVID H. COX, Roselle, N. J. Filed Mar. 28, 1921. Serial No. 456,073. 5 Claims. (Cl. 152—12.)



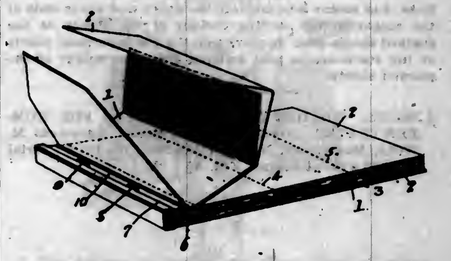
5. A cap for tire valve tubes consisting of a spherical block of wood having an inwardly tapered radial bore at the inner end of which is seated a rubber cushion of spherical form revolubly fitted in a counterbored seat.

1,392,747. DIRIGIBLE HEADLIGHT. GEORGE W. J. CRABB, Newark, and EDWARD J. RENNIE, Bloomfield, N. J. Filed Apr. 26, 1920. Serial No. 376,743. 2 Claims. (Cl. 240—62.)



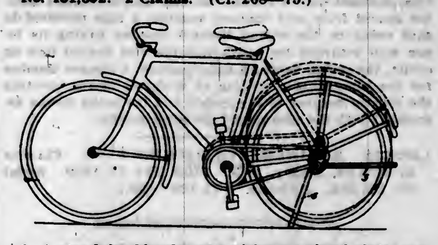
1. In a dirigible headlight for vehicles, the combination with the chassis, of a sleeve secured to the side bar of the chassis, a rod secured to the said side bar, a second sleeve having its upper end closed by an apertured cap, means for pivotally mounting the sleeve on the upper end of the rod in alinement with the first sleeve, shaft sections connected together by a universal joint, the lower shaft section extending through the first sleeve and provided with a crank arm at its end, a thimble detachably secured to the upper shaft section and slidable in the second sleeve, the upper closed end of the thimble being provided with a polygonal opening, and a headlight bracket having a shank, the lower end of which is polygonal and extends through the openings of the sleeve and thimble.

1,392,748. MANIFOLDING-BOOK AND THE METHOD OF MANIFOLDING. CLARENCE B. DAVIDSON, San Francisco, Calif. Filed Oct. 7, 1918. Serial No. 257,207. 3 Claims. (Cl. 282—9.)



3. A manifold book for executing triplicate records comprising record sheets and carbon sheets bound together, each record sheet having two weakened lines of fold, and three record sections, and each carbon sheet having a single weakened line of fold and two carbon surfaces, the carbon surfaces being placed on opposite faces of the sheet and on opposite sides of the line of fold, in such manner that impressions will be recorded on the upper faces of the record sheet only.

1,392,749. BICYCLE STAND OR SUPPORT. ADOLPH DONATI, Brooklyn, N. Y. Filed Mar. 12, 1921. Serial No. 451,692. 2 Claims. (Cl. 208—75.)

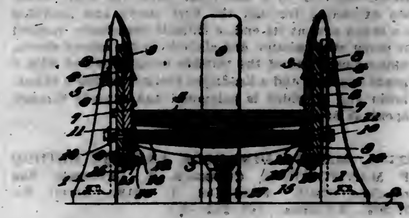


1. A stand for bicycles comprising a pair of plates carried by the bicycle, spindles carried by said plates, housings mounted on said spindles, resilient means interposed between the housings and the spindles and adapted to rotate the housings in one direction, a stand rigidly carried by said housings, and means carried by the plates for engagement with the stand for limiting the movement of the housings under the influence of the resilient means.

1,392,750. MAGAZINE FOR BLANKS OF SHEET METAL. HENRY A. FINK, Chicago, Ill., assignor to Continental Can Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed July 3, 1919. Serial No. 308,473. 9 Claims. (Cl. 271—32.)

1. The combination of a magazine, in which sheets of metal may be stacked, and devices for withdrawing the

sheets one at a time from the bottom of the stack, said magazine having means at the lower end thereof for supporting the stacked sheets adjacent the bottom of the magazine and permitting the sheets to be withdrawn there-



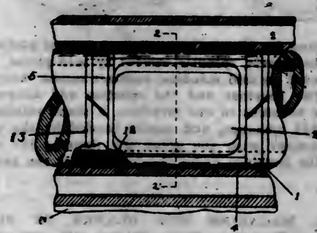
from, and means intermediate the upper and lower ends of the magazine for bending certain of the sheets as the stacked sheets pass thereby, whereby the lowermost sheets of the stack are in part relieved from the weight of the stacked sheets.

1,392,751. HOLDER AND ILLUMINATOR FOR NUMBER-PLATES. HENRY J. FISCHER and BERNHARD M. WOLF, Manchester, N. H. Filed Nov. 19, 1919. Serial No. 339,015. 1 Claim. (Cl. 40—132.)



A display device including a casing having a first section provided with a channel member and a channel member spaced from said channel member, a sign mounted in said members, the second channel member having its inner wall returned for reinforcements and shaped into an eyelet, the casing having a super-section, a closure member for the super-section serving as a signal, means pivoting the closure member to the eyelet, and fastening means associated with the closure and the super-section.

1,392,752. ROTARY-VALVE PACKING-RING. FRANCIS E. FOULKE, Albany, N. Y. Filed May 27, 1920. Serial No. 384,584. 4 Claims. (Cl. 123—190.)



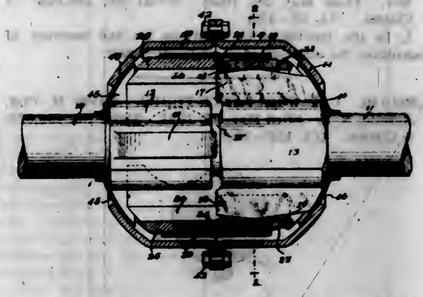
1. The combination with a rotary valve, having a port therein, of a packing, comprising coöperating relatively rotatable members, each having a bar and annuli at opposite ends of said bar, said annuli surrounding said valve at the ends of the port and said bars being at the sides of said port.

1,392,753. SAFETY-RAZOR. VAL F. FRANCK, Louisville, Ky. Filed Mar. 22, 1921. Serial No. 454,377. 8 Claims. (Cl. 132—80.)



8. An article of the character specified comprising a razor section embodying a member having a razor element pivotally connected thereto, a brush section detachably engaging the razor section, a soap section detachably engaging the brush section and inclosing the brush, and caps detachably engaging the razor and soap sections and forming with the several sections a uniform case inclosing the parts.

1,392,754. UNIFORM-MOTION UNIVERSAL JOINT. WILLIAM J. FRANCKE, Highland Park, N. J., assignor to The Francke Co., New Brunswick, N. J., a Corporation of New Jersey. Filed Nov. 30, 1920. Serial No. 427,334. 8 Claims. (Cl. 64—21.)

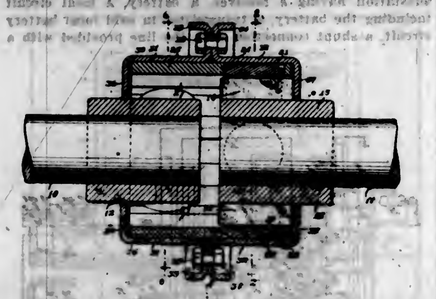


8. A uniform motion universal joint, comprising a driving shaft, a driven shaft, hubs secured on the adjacent ends of the said shafts and each provided with diametrically disposed driving members, the driving members on one hub being at a right angle to the driving members on the other hub, a sleeve, disks mounted to turn in the said sleeve and having their axes intersecting the axes of the corresponding shafts, the disks being provided at their inner faces with slots engaged by the said driving members of the hubs, the outer faces of the said disks being spherical, and a retaining ring fitting exteriorly on the said sleeve and engaging the spherical outer faces of the said disks to hold the latter in place on the sleeve.

1,392,755. FLEXIBLE COUPLING. WILLIAM J. FRANCKE, Highland Park, N. J., assignor to The Francke Co., New Brunswick, N. J., a Corporation of New Jersey. Filed Dec. 2, 1920. Serial No. 427,741. 4 Claims. (Cl. 64—21.)

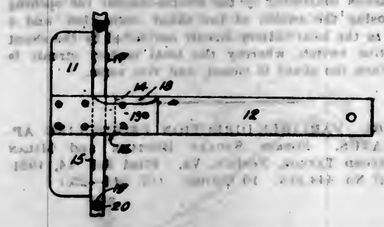
4. A flexible coupling, comprising hubs adapted to be secured on the adjacent ends of driving and driven shafts, each of the hubs having driving members disposed diametrically opposite each other, the driving members of each hub being at right angles to each other and the driving members of one hub being in staggered relation to the driving members of the other hub, a sleeve, connecting members mounted to turn in the said sleeve and having their axes intersecting the axes of the said hubs, the said connecting members being provided at the inner faces

with slots engaged by the said driving members, the said connecting members having outer spherical faces, and a



housing fitting onto the said sleeve and engaging the said spherical faces of the connecting members, the said housing inclosing the said driving members.

1,392,756. T-SQUARE. HUGH N. GAHAN, Kelowna, British Columbia, Canada. Filed Jan. 19, 1920. Serial No. 352,568. 5 Claims. (Cl. 33—76.)



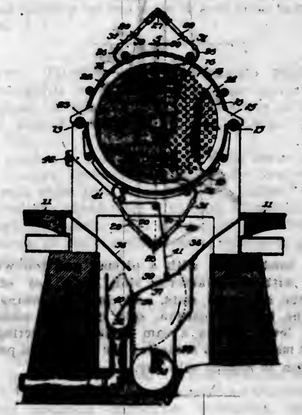
1. The combination with a flanged straight-edge of a T-square having the lower surfaces of its head and blade located in the same place and also having a downwardly opening groove exposing an edge for coöperation with the straightedge, said exposed edge being formed with a longitudinally extending groove receiving the flange of the straight edge.

1,392,757. BATTERY-CLAMP. GEORGE T. W. GALES, Uniontown, Pa. Filed Jan. 2, 1920. Serial No. 349,102. 1 Claim. (Cl. 267—74.)



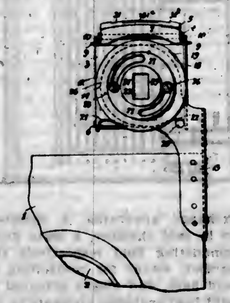
A battery box clamp comprising a threaded anchoring bolt for passing through a support and having a head at its upper end provided with a transverse opening, securing nuts carried by the bolt for engaging upper and lower faces of a support, a box engaging rod having its upper end portion bent to provide a box engaging hook and having its lower end portion flattened and provided with openings, and a spiral spring coiled about the flattened portion of the rod and having its lower convolution passing through the opening in the head of the bolt and having its upper convolution passing through a selected opening of the rod to releasably and adjustably connect the spring with the lower portion of the rod.

1,392,758. ART OF FILTRATION. HARRY F. GLAIR, Whiting, Ind., assignor to Standard Oil Company (of Indiana), Whiting, Ind., a Corporation of Indiana. Filed Aug. 11, 1920. Serial No. 402,810. 7 Claims. (Cl. 210—191.)



4. The process of filtering wax from chilled oil which consists in forcing the chilled oil through a filter surface, the pressure or head of oil upon said surface being substantially uniformly applied thereover, thereby depositing the wax suspended in the oil upon the filter surface, applying heat to the body of wax upon the filter surface, and removing the melted wax through the latter.

1,392,759. VIEW-FINDER FOR PHOTOGRAPHIC CAMERAS. JOSEPH GODDARD, Rochester, N. Y., assignor to Seneca Camera Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Sept. 22, 1919. Serial No. 325,325. 9 Claims. (Cl. 88—1.5.)



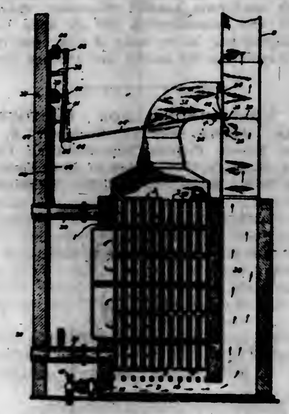
1. A view finder for photographic cameras comprising an objective lens, a reflector and an image screen to receive an image from said reflector, means for mounting the finder on a camera whereby the reflector and screen may be rotated into different positions about an axis parallel to the optical axis of the objective lens, and a device rotatable relatively to the reflector and screen and also rotatable relatively to the finder mounting means and located adjacently to the objective lens for delimiting and positioning the field projected by the objective lens and reflector onto the screen.

1,392,760. PITMAN-TIGHTENING DEVICE. CLARENCE R. GRIMM, Bowling Green, Ohio. Filed Sept. 1, 1920. Serial No. 407,463. 4 Claims. (Cl. 287—98.)



1. The combination with a pitman and follower, each provided with a transverse slot, of a key extending through the aforesaid slots, and clamping means for retaining the key in position, said clamping means comprising a lever having a cam element projecting therefrom, and means for so mounting the lever as to permit its cam portion to engage said key.

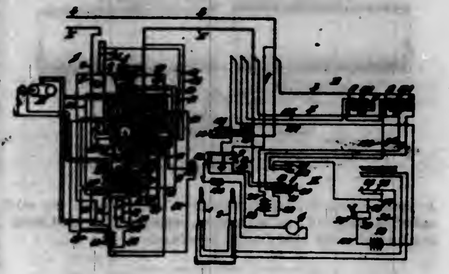
1,392,761. DAMPER CONTROL FOR HEAT-EXCHANGE APPARATUS. JAMES M. HARRISON, Cleveland, Ohio. Filed Apr. 17, 1919. Serial No. 290,789. 9 Claims. (Cl. 236—17.)



1. In heat-exchange apparatus, a chamber, heat-exchange elements in said chamber, a main flue and a by-pass flue for conducting fluid respectively through and around said chamber, means for controlling the flow of fluid through said flues, and means actuated by increase of pressure in said heat-exchange elements to operate said controlling means to divert the flow of fluid from said by-pass flue to said main flue.

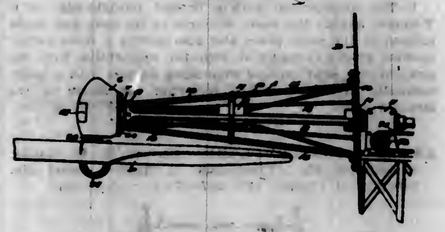
1,392,762. SELECTIVE TELEPHONE SYSTEM. RUBEN C. M. HASTINGS, Columbus, Ohio, assignor to International Telephone Company, Columbus, Ohio. Filed Nov. 28, 1913, Serial No. 803,596. Renewed Nov. 6, 1920. Serial No. 422,364. 28 Claims. (Cl. 179—33.)

1. In a selective system of telephony, the combination of an exchange station and a plurality of substations connected electrically for the transmission of intelligence, said exchange station having a selecting device, and each substation having a receiver, a battery, a local circuit including the battery, a transmitter in said local battery circuit, a shunt connection with the line provided with a



switch, an electro-magnet influenced by the selecting device, means controlled by the electro-magnet for opening and closing the switch of the shunt connection, and a switch in the local battery circuit controlled by the shunt connection switch, whereby the local battery circuit is open when the shunt is closed, and vice versa.

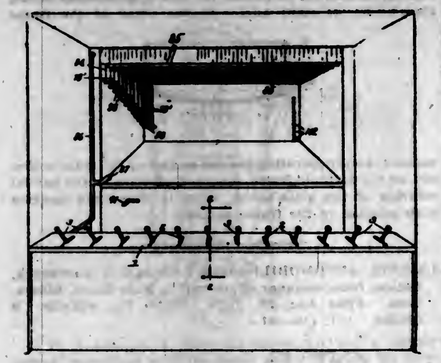
1,392,763. VARIABLE-DIRECTION PROPELLING APPARATUS. ROBERT STUART HEDYLEN and MILAN RANSFORD TAYLOR, Norfolk, Va. Filed Feb. 14, 1921. Serial No. 444,913. 10 Claims. (Cl. 244—25.)



1. A variable direction propelling apparatus comprising, an outrigger, a housing rotatably supported on the outrigger, a propeller shaft journaled in the housing, a propeller fixed to said shaft, a tubular axle supported by the outrigger, a driving shaft rotatably fitted within said axle and operatively connected to said propeller shaft, means for rotating said housing including a shaft journaled on the outrigger and rotatably fitted on said axle, and means for rotating said shaft.

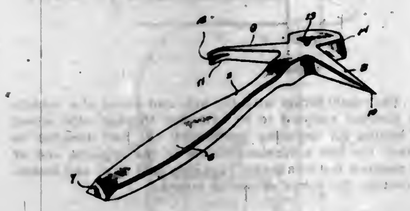
1,392,764. RACING GAME. MONNOSUKE HIGUCHI, College Point, N. Y., assignor of one-half to Tokichi Matsuoka, College Point, N. Y. Filed May 13, 1920. Serial No. 381,161. 9 Claims. (Cl. 46—56.)

1. In a device of the character described, an element to be propelled over a course of travel, means for propelling said element, and means for controlling the speed of said propelling means including a hand operated pneu-



matic pouch, a power transmitting pneumatic pouch, and means for conveying air from one pneumatic pouch to the other.

1,392,765. STAPLE-PULLER. GEORGE L. HUNTER, Fletcher, Okla. Filed Nov. 26, 1919. Serial No. 340,748. 1 Claim. (Cl. 254—25.)



In a compound tool of the class described, comprising a tapered handle having an enlarged, flat head integral therewith, tapered, diverging arms extending substantially at an angle of forty-five degrees with the longitudinal axis of the said handle and head, an inwardly curved claw at the free extremity of one of said arms, the second arm having a sharp pointed terminal, and an enlarged segmental rocker fulcrum offset from the head portion of the handle constituting an extension thereof and positioned medially between the said arms whereby a fastener may be removed by either of said arms without bending or crimping.

1,392,766. MUSICAL INSTRUMENT FOR TEACHING. WALTER H. HUTH, Chicago, Ill. Filed June 23, 1919. Serial No. 306,089. 4 Claims. (Cl. 84—470.)



4. In a musical instrument, the combination of a portable hollow body forming a chamber having a top wall provided with holes therein, pivoted strikers in said chamber, sound producing means inclosed in said chamber and located to respond to the impact of said strikers to produce musical tones, a music staff on said top wall, the axis of each striker extending obliquely to said staff, and push buttons representing notes on said staff and movable up and down in said holes to actuate the strikers.

1,392,767. THYROID PRODUCT AND PROCESS OF PREPARING THE SAME. EDWARD CALVIN KENDALL, Rochester, Minn., assignor to University of Minnesota. Filed June 7, 1916. Serial No. 102,302. 24 Claims. (Cl. 167—7.)

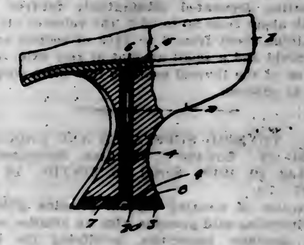
1. A process of breaking down thyroid tissue which comprises heating desiccated substantially fat-free thyroid tissue with about from 80 to 95% (by volume) ethyl alcohol containing about from 1 to 2½% of sodium or potassium hydroxid and a small amount of zinc oxid, until decomposition of the thyroid proteins into more simple constituents is effected.

1,392,768. THYROID SUBSTANCE AND PROCESS OF MAKING IT. EDWARD C. KENDALL, Rochester, Minn. Filed Aug. 20, 1919. Serial No. 318,719. 16 Claims. (Cl. 167—7.)

1. A process of treating thyroid proteins which comprises hydrolyzing said proteins with an alkaline solution, removing insoluble impurities, acidifying the solution while preventing its temperature from rising materially above 25° C., allowing the mixture to stand with occasional stirring until a flocculent precipitate settles, separating the precipitate and dissolving it in a sodium hydroxid solution and filtering to remove any insoluble residue, acidifying the solution with hydrochloric acid while maintaining the temperature below 25° C., filtering off the resulting precipitate and dissolving it in ethyl alcohol of from about 85 to 95 per cent. strength to which a little hydrochloric acid has been added, filtering off insoluble constituents, making the filtrate neutral with sodium hydroxid and filtering to remove precipitated matter, again slightly acidifying the alcohol with hydrochloric acid, mixing barium hydroxid with the filtrate and heating to cause a precipitate containing thyroxin, filtering off said precipitate, and adding water containing barium hydroxid to the filtrate, evaporating the alcohol and separating the products dissolved in the remaining aqueous solution into barium hydroxid-soluble and barium hydroxid-insoluble portions; heating the two above mentioned thyroxin containing precipitates with distilled water to separate them into barium hydroxid-soluble and barium hydroxid-insoluble portions; heating the residues comprising the barium hydroxid-insoluble portions with dilute sodium hydroxid solution while excluding carbon dioxid, filtering and reserving this filtrate; treating the solutions containing barium hydroxid-soluble portions with just sufficient sodium sulfate to precipitate all the barium as barium sulfate, filtering off the barium sulfate, treating the resulting filtrates and also the reserved filtrate with carbon dioxid until precipitates form, dissolving the precipitates in dilute sodium hydroxid solutions, the precipitates of similar degrees of purity having been combined, heating the solutions to boiling and adding enough sodium chlorid to make at least a 20 per cent. solution thereof, allowing the solutions to cool and to form crystalline precipitates, dissolving the precipitates in dilute sodium hydroxid and heating for about one hour at 100° C., filtering off and discarding any precipitates which form, acidifying the filtrates with hydrochloric acid and adding barium hydroxid, heating the mixtures for several hours at about 100° C. while preventing evaporation of water, separating the solutions, which contain the barium hydroxid-soluble compounds, from the residues, which contain the barium hydroxid-insoluble compounds, subjecting these last mentioned residues and solutions to the series of steps above mentioned for the treatment of the barium hydroxid-insoluble portions and the solutions

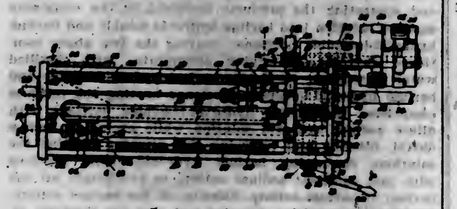
containing barium hydroxid-soluble portions, respectively, and repeating this series of steps until the precipitates which are obtained by heating the 20% sodium chlorid solutions and cooling, are colorless and highly crystalline; dissolving these crystalline precipitates in ethyl alcohol of from 85 to 95 per cent. strength containing a small proportion of sodium hydroxid, acidifying with acetic acid, heating the solution to the boiling point of alcohol, and removing the resulting fine white crystalline precipitate containing 65 per cent. of iodin.

1,392,769. SHOE-HEEL. ERNEST O. R. KRESSE, Brooklyn, N. Y. Filed Nov. 15, 1916. Serial No. 131,428. 1 Claim. (Cl. 36—42.)



A shoe heel including a body having a vertical bore extending therethrough and a wear plate engaging one end of the body and engaged by a lift, a reinforcing tube fitting snugly in the bore and having its upper end flared and countersunk in said body to prevent displacement from the bore, said member being internally screw threaded adjacent said end, a fastening screw constructed and arranged to extend through the sole of a shoe, said flared end engaging said screw threads, and means to support the wear plate from the tube.

1,392,770. BROACHING-MACHINE. FRANCIS J. LAFOUNTE, Ann Arbor, Mich. Filed June 25, 1920. Serial No. 391,796. 16 Claims. (Cl. 90—53.)



1. In a machine of the class described, a cylindrical member provided with a plurality of rack teeth; a tool holder secured to an end thereof; a cylindrical sleeve through which said member is adapted to be reciprocated; a revolvable gear meshing with said rack teeth; a worm wheel for rotating said gear; and a driving worm coacting with said worm wheel.

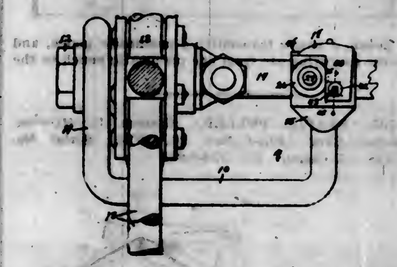
1,392,771. SHIP'S PORTHOLE, SCUTTLE, AND THE LIKE. CLAUDE LAUZIÈRES, Nantes, France, assignor of one-half to Société Anonyme des Ateliers et Chantiers de la Loire, Paris, France, a Corporation of France. Filed Apr. 15, 1920. Serial No. 374,167. 8 Claims. (Cl. 114—178.)

1. A port light comprising a fixed frame member provided with internal threaded sectors, a glass-holder having external threaded sectors adapted to interfit with those of the frame member and to engage therewith by a partial rotation of the glass-holder and, when out of engagement therewith, adapted to permit the free displacement of the glass-holder at right angles to the plane of the frame



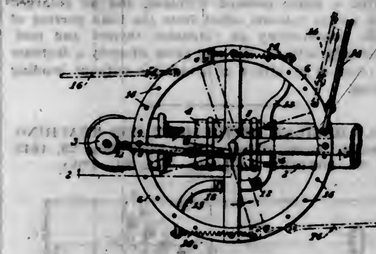
member, and coöperating sealing means on the glass-holder and on the porthole frame, rendered effective by the partial rotation of the glass-holder when in interfitted position with relation to the frame member.

1,392,772. AUTOMOBILE-LOCK. RICHARD N. LAWRENCE, Eldora, Iowa, assignor of one-half to Bute Ibach, Eldora, Iowa. Filed Aug. 25, 1920. Serial No. 405,859. 9 Claims. (Cl. 188—31.)



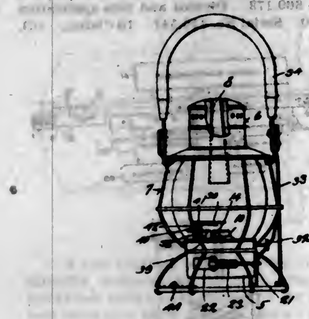
1. The combination with the axle and wheel of a vehicle of a member adapted to be extended through said wheel and having an engaging portion on one end adapted to embrace the hub extension, means on the opposite end of said member for detachably engaging said axle, and means for locking the latter engaging means.

1,392,773. WHISTLE-OPERATING CONNECTION. JOSEPH E. LEMOINE, Vancouver, and CLEMENT W. O'NEAL, Union Bay, British Columbia, Canada. Filed May 28, 1921. Serial No. 470,229. 4 Claims. (Cl. 116—137.)



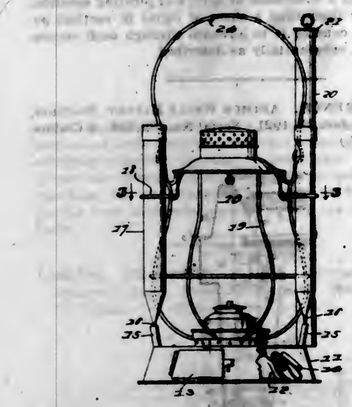
1. A whistle operating means for a logging donkey engine or the like, said means comprising a wheel rotatably mounted adjacent the whistle, the rim of which wheel has provision at intervals apart for connection of the whistle signal wire to it, means for limiting rotational movement of the wheel, means adjacent the hub of the wheel for actuating the whistle valve, and a spring normally holding the wheel in the out of action position.

1,392,774. LANTERN. ROBERT LEWIS, Topeka, Kans. Filed Apr. 20, 1921. Serial No. 462,880. 6 Claims. (Cl. 67—12.)



1. In a lantern, a base, an upper portion, a handle having connection with the upper portion, means for forcing a match through the base, a match striking element supported by the base, and means controlled by the movement of the handle for operating the match striking element to cause the same to ignite the match.

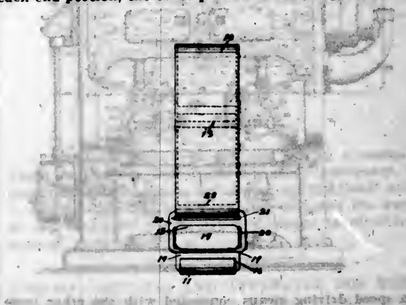
1,392,775. FLAGMAN'S LANTERN. CLARENCE L. LIKEN, Enid, Okla. Filed June 8, 1920. Serial No. 387,312. 1 Claim. (Cl. 246—488.)



In combination with a flagman's lantern having a base and a globe guard upstanding on the base and provided with a guide ring disposed in parallelism with but spaced from the base, a tubular casing disposed within the guide ring and having one end resting upon the base, a removable cap fitted in the upper end of the casing, and a signal flag disposed within the casing and provided with a staff attached to said cap, whereby the flag and staff may be withdrawn from the casing upon the removal of the cap.

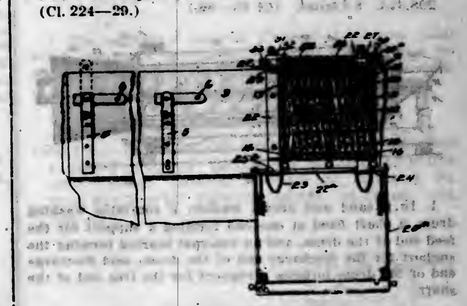
1,392,776. HOSE-SUPPORTER. CHARLES A. LINDQUIST and ERIC V. LINDQUIST, Des Moines, Iowa, assignors, by direct and mesne assignments, to Dupee Hose Supporter Company, Eau Claire, Wis., a Corporation of Wisconsin. Filed Jan. 24, 1920. Serial No. 353,809. 1 Claim. (Cl. 24—245.)

In a hose supporter having a flexible supporting member formed with depending loops one in front of the other, the outer loop being of less length than the inner loop and having an engaging member formed with a transverse slot, the combination with the longer base loop of a base plate formed of an integral sheet of metal bent and shaped to produce an outstanding stud member transversely arranged and formed at its outer end with upwardly and downwardly extending flanges, the downwardly extending flange being of greater length than the other, said base plate being formed with one transversely arranged slot only in each end portion, the outer portion of the longer base loop



being rove through said slots and overlying end portions of said plate, both portions of said loop extending longitudinally of the inner face of the base plate in contacting parallel relations and crossing beneath said stud, said stud being adapted to extend through the slot of the engaging member on the shorter outer loop, whereby the extremities of said loops are adapted to be detachably connected, the stud being wholly separate from and out of contact with the base loop.

1,392,777. AUTO-CARRIER. JOHN M. LOVELESS, Glenn, Ind. Filed Sept. 23, 1920. Serial No. 412,127. 4 Claims. (Cl. 224—29.)

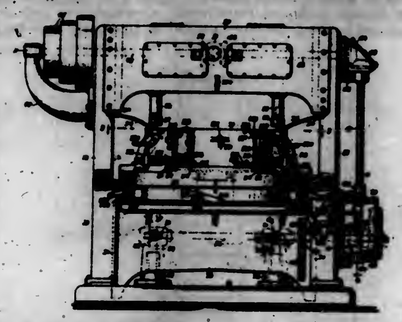


1. A luggage carrier of the class described, comprising a pair of hinges secured to the under side of the running board of an automobile, and having front and rear bearings, a pivot rod rotatably supported in the front bearings, a guard having supports fixed to and rotatable with said rod, means for longitudinally moving said rod, latching means on said rod and hinges to lock the guard when moved to vertical position with respect to the running board, means for positioning the guard beneath the said board, and a housing for concealing said guard.

1,392,778. BORING-MACHINE. WILLIAM F. MCCARTY, Defiance, Ohio, assignor to Defiance Machine Works, Defiance, Ohio, a Corporation of Ohio. Filed Dec. 16, 1919. Serial No. 345,239. 14 Claims. (Cl. 77—62.)

1. A boring machine, comprising a support mounted to slide up and down and supporting a work holder, a raising

and lowering means for the said support and including a clutch shaft, two clutch members loose on the said clutch shaft, a double clutch member mounted to slide on and to rotate with the said clutch shaft and adapted to engage either of the said loose clutch members, slow speed driving means connected with one of the loose clutch members,



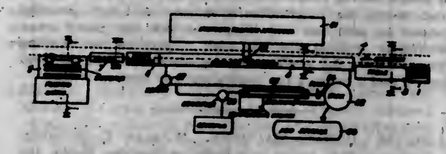
high speed driving means connected with the other loose clutch member, a shifting device for the said double clutch member including a shifting lever, a link connected with the shifting lever, a hand lever having an arm and a crank, of which the latter is connected with the said link, and lugs moving with the said support and adapted to engage the said hand lever arm.

1,392,779. SAND AND GRAVEL WASHER. JOHN J. MCMANAMEN, Mitchell, S. D., and CHARLES F. SMITH and ALEXANDER L. MUNRO, Milwaukee, Wis., assignors to Smith Engineering Works, Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 21, 1917. Serial No. 208,313. 8 Claims. (Cl. 83—86.)



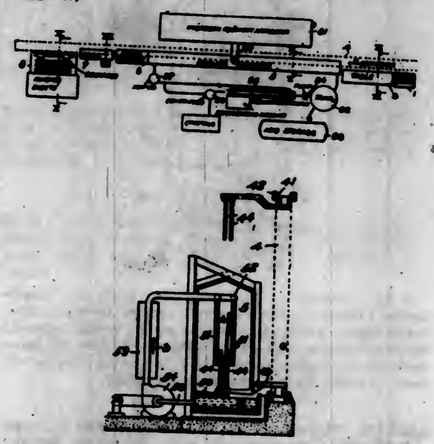
1. In a sand and gravel washer, a rotatable washing drum, a shaft fixed at one end forming a support for the feed end of the drum, and an external bearing forming the support for the discharge end of the drum, said discharge end of the drum forming a support for the free end of the shaft.

1,392,780. METHOD OF PICKLING METAL ARTICLES. HENRY S. MARSH and RALF S. COCHRAN, Youngstown, Ohio. Filed Mar. 27, 1920. Serial No. 369,173. 14 Claims. (Cl. 148—8.)



1. A step in a method of removing in continuous operation scale from the surface of a succession of metallic articles which consists in causing the articles to advance in succession through a spray of hot pickling solution.

1,392,781. APPARATUS FOR PICKLING METAL ARTICLES. HENRY S. MARSH and RALF S. COCHRAN, Youngstown, Ohio. Original application filed Mar. 27, 1920, Serial No. 369,173. Divided and this application filed Oct. 12, 1920. Serial No. 416,547. 10 Claims. (Cl. 266—7.)



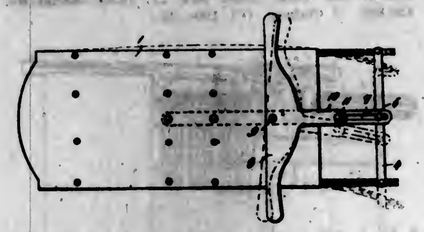
1. In apparatus for pickling sheet metal means for projecting laterally a succession of sprays of pickling solution, and means for sustaining a sheet of metal in vertical position and for causing it to advance through such succession of sprays, substantially as described.

1,392,782. WRENCH. ARTHUR WELLS MINNEY, Stockton, Calif. Filed Jan. 25, 1921. Serial No. 439,822. 2 Claims. (Cl. 81—167.)



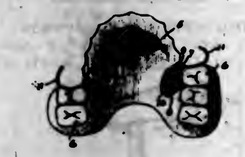
2. A wrench comprising a body portion having a channel way therein and a transverse opening communicating with said channel-way, a fixed jaw carried by said body portion, a movable jaw coacting with said fixed jaw and having a shank slidably received in and transversely of said channel-way, spring means carried by the body portion and engaging said shank for resiliently opposing transverse movement therein, and means for adjusting said jaws toward and away from each other and permitting said shank to partake of transverse movement in said transverse openings.

1,392,783. SLED. GEORGE F. MISH, Inwood, W. Va. Filed July 24, 1919. Serial No. 312,908. 4 Claims. (Cl. 280—22.)



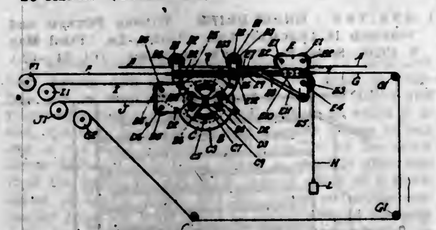
1. A sled provided along its sides with hangers, runners hingedly connected to the lower ends of the hangers, a spring bar having connection with the runners to normally hold them in a given position and a steering member having connection with the runners for turning them against the tension of the spring bar when it is required to steer the sled.

1,392,784. CLASP FOR TEETH. EDMUND R. NEBELING, New York, N. Y. Filed June 15, 1921. Serial No. 477,676. 2 Claims. (Cl. 32—12.)



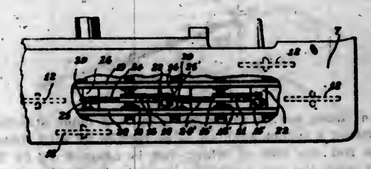
2. A device of the character described comprising a body portion of substantially triangular shape provided with a centrally disposed opening therethrough, a plurality of projections formed on the body portion and defining said openings, and an elongated tongue of uniform width projecting from said body portion, as and for the purpose set forth.

1,392,785. TRAVELING HOIST. RICHARD L. NEUBERT, Knoxville, Tenn. Filed Oct. 10, 1919. Serial No. 329,695. 16 Claims. (Cl. 212—89.)



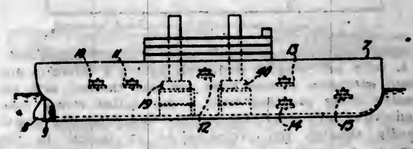
1. In an apparatus of the nature described, the combination of a carriage comprising an extension and means for articulating the extension to the main part of the carriage and guiding the below-mentioned load-line, wheels on the carriage adapted to travel on an elevated track, a multiple pulley, a load-line attached to said pulley and extending along said articulating and guiding means, two cables oppositely applied to said pulley for rotating the pulley, and lines leading to the carriage from opposite directions for drawing the carriage on the track, substantially as described.

1,392,786. AUXILIARY APPARATUS FOR STEERING VESSELS. ALEXANDER MCLEAN NICOLSON, New York, N. Y. Filed Dec. 17, 1917. Serial No. 207,479. 8 Claims. (Cl. 114—144.)



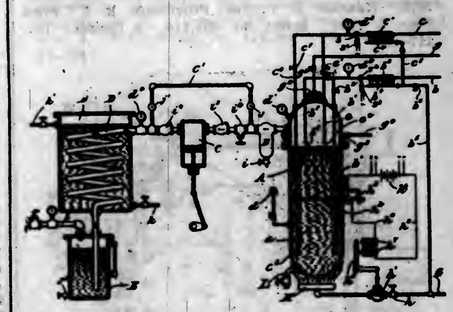
1. The combination with a vessel having a rudder, of means for steering said vessel during an emergency, said means comprising means for storing up rotational energy in a given direction, and means for changing the amount of said rotational energy when a change in direction is desired.

1,392,787. METHOD AND APPARATUS FOR STEERING VESSELS. ALEXANDER MCLEAN NICOLSON, Hillsdale, N. J. Filed Nov. 29, 1920. Serial No. 427,230. 12 Claims. (Cl. 114—144.)



1. The method of steering a vessel in a given plane which comprises developing rotational energy in a flywheel for steering in either a clockwise or counter clockwise direction in said plane.

1,392,788. PROCESS OF DISTILLING SOLIDS AND LIQUIDS AND OF CRACKING SOLIDS, LIQUIDS, AND GASES. AUGUSTE J. PARIS, Jr., Bradford, Pa. Filed May 3, 1915. Serial No. 25,403. 11 Claims. (Cl. 196—25.)



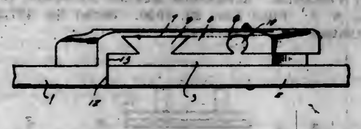
10. The process of altering the composition of petroleum distillates which consists in passing them through molten metal and thereafter compressing and condensing the products of the cracking operation.

1,392,789. CHURN. Hoskins N. Paine, Shawnee, Okla. Filed Nov. 15, 1920. Serial No. 424,149. 1 Claim. (Cl. 259—124.)



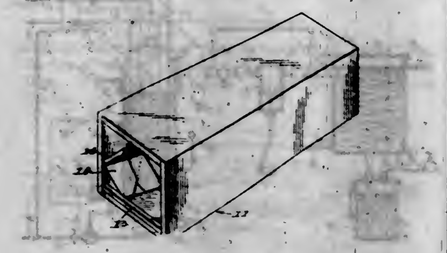
In a churn having a vertical spindle, a blade structure comprising a socket adapted to be carried by said spindle and a rod one end of which rod is adapted to fit the socket with the rod extending radially from the spindle, means for retaining the rod immovably in the socket, the rod bent into a plurality of loops and filled with the loops having their axes on chords of a circle having the axis of the spindle as their center.

1,392,790. RAIL-JOINT. Dempsey P. Parker, Osteen, Fla. Filed Apr. 20, 1920. Serial No. 375,320. 4 Claims. (Cl. 238—231.)



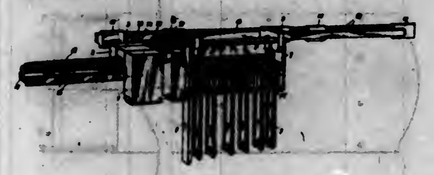
1. In a rail joint, a track rail having a laterally disposed extension formed upon one end thereof, said extension being provided with a dove-tailed recess communicating with its inner surface and extending downwardly through the extension at an incline to the vertical, a coupling member having a dove-tail projection formed thereupon for seating in said dove-tailed recess, a longitudinally extending dove-tailed extension formed upon the opposite side of said coupling member from said first named dove-tailed extension, and a complementary track rail having a longitudinally extending dove-tailed recess formed in its inner surface for receiving the dove-tailed projection formed upon said coupling member, the meeting ends of said track rails being cut at an incline to the vertical and substantially parallel to said inclined dove-tail recess and projection.

1,392,791. CARRIER FOR PASTEBOARD CONTAINERS. Herbert B. Pettes, Providence, R. I. Filed June 7, 1920. Serial No. 387,116. 5 Claims. (Cl. 217—8.)



1. A tubular carrier or housing for rectangular containers having each wall intermediate the corners provided with an interior seating groove for the reception of one of the angles or corners of the containers.

1,392,792. LINE-STOP FOR TYPOGRAPHICAL MACHINES. Edwin W. Pierson, Newark, N. J., assignor to Intertype Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 27, 1920. Serial No. 426,825. 7 Claims. (Cl. 199—82.)



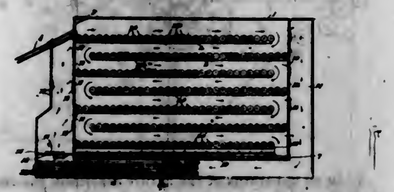
2. In a typographical machine having an elevator adapted for the endwise reception of an assembled line, a line stop within such elevator and tending to move in opposition to an incoming line, and means for holding the line stop in set position.

1,392,793. RAZOR-BLADE SHARPENER. Isaiah W. Pretorius, Chicago, Ill. Filed July 3, 1919. Serial No. 308,436. 1 Claim. (Cl. 51—98.)



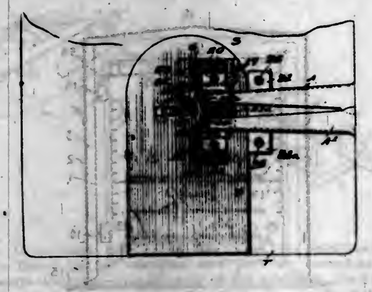
In a device of the class described, a base plate of resilient material provided at opposite longitudinal edges with upstanding bearing members, a sharpening roll having a supporting spindle journaled in said members, the base plate at a point relatively remote from the bearing members being bent back upon itself in an upward direction along lines parallel to the axis of the sharpening roll whereby to provide a yielding supporting portion extending over and spaced from the base plate with its free end presented in proximity to the said roll.

1,392,794. GRAIN-DRIER. Wilbur Putnam and Garfield D. Longman, Lake Charles, La. Filed May 8, 1920. Serial No. 379,875. 4 Claims. (Cl. 34—12.)



1. A drier, comprising a casing, a series of superimposed racks in the casing, each rack depositing on the rack below, each of said racks comprising a series of rollers, pinions secured to turn with the rollers, idle pinions between the first-mentioned pinions, whereby said rollers are compelled to turn in the same direction, and means for inducing a current of air through the drier and the racks thereof.

1,392,795. APPARATUS FOR MAKING ORNAMENTAL ROPE. Charles A. Rose, Williamsport, Pa. Filed Mar. 15, 1920. Serial No. 365,873. 10 Claims. (Cl. 112—122.)



1. An apparatus of the character described comprising, feeding means, stitching means, and cutting means including a pair of blades movable by said stitching means and disposed upon opposite sides of the line of stitching and substantially transversely thereto, and a third blade movable by the first two blades to effect a shearing cut.

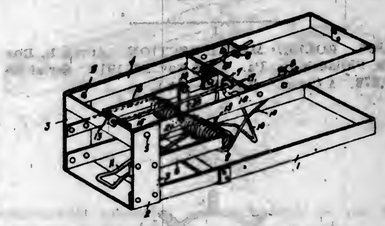
1,392,796. SCREWDRIVER ATTACHMENT. Peter Reinhalter, Wilkes-Barre, Pa. Filed Jan. 14, 1919. Serial No. 271,107. 1 Claim. (Cl. 145—52.)



A screw driver attachment including an elongated body having side spring fingers spaced apart at their free ends to snap over the shank of a screw driver and frictionally hold the body in any position to which it is slid, the body having a resilient angular tongue at one end of the same conformation as the bit of the screw driver and said body being bowed in opposite directions from the fingers to engage the tapered shank of a screw driver at spaced points and the tongue extending outwardly from the lower point of engagement of the body with the shank of the screw driver and adapted to cooperate with the bit of the screw driver to engage within the slot or niche of a screw.

1,392,797. ANIMAL-TRAP. Anton F. Renken, Crete, Nebr. Filed July 29, 1920. Serial No. 399,683. 4 Claims. (Cl. 43—81.)

1. In a trap of the character described, a fixed jaw, a movable jaw, a spring normally holding the jaws in closed position, a lever pivotally mounted on the movable jaw, a leg carried by the lever, said lever adapted to fulcrum on said leg to raise said movable jaw, a transversely positioned arm carried by said lever, a locking arm pivoted at one end to said movable jaw adapted to engage said last mentioned arm to lock said lever in position, a trigger



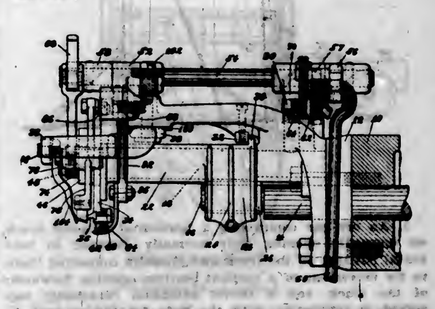
engaging the free end of said locking arm to maintain said jaws in open position against the torsion of said spring and means for locking the free end of said movable jaw at various distances from said fixed jaw.

1,392,798. COLLAPSIBLE SHAFT. Harvey Terry Rich, Norfolk, N. Y. Filed Nov. 29, 1919. Serial No. 341,539. 1 Claim. (Cl. 82—44.)



A collapsible shaft, comprising a core having a screw threaded portion, an adjusting sleeve having internal screw threads engaging the threads of the core, a segmental shell around core, each segment of the shell having an internal groove, an annular flange on the sleeve located in the grooves of the core segments, and a plurality of circular series of tenons fixed to the core, said shell segments having mortices receiving the tenons, said tenons and mortices being dove-tailed and having longitudinally inclined contacting faces, whereby when the sleeve is adjusted longitudinally of the core, the shell segments will be moved toward or away from the core.

1,392,799. MACHINE FOR TRIMMING SOLES. John H. Richardson, Melrose, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 3, 1916. Serial No. 129,304. 36 Claims. (Cl. 12—85.)



33. A machine of the character described comprising a chopping knife, and mechanism constructed and arranged

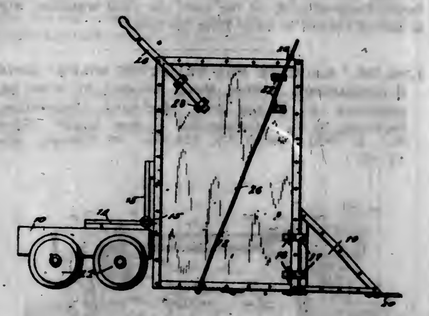
to operate said knife, said mechanism including a reciprocatory member by which the chopping knife is supported but relatively to which the knife moves to execute its chopping motion, said supporting member being adjustable to advance and retract the chopping knife with respect to its lines of chopping motion.

1,392,800. ROLLED METAL SECTION. ALVIN L. ROBERTS, Philadelphia, Pa. Filed Nov. 25, 1919. Serial No. 340,576. 1 Claim. (Cl. 189—41.)



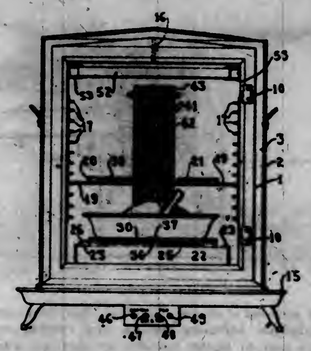
A rolled column section concave on one face and convex on the other, and provided on its convex face with integral longitudinal equally spaced stiffening ribs which are deep in proportion to their width all of which are of approximately the same size and also provided at each of its edges with a side flange of less thickness than the intermediate ribs and having flat outer faces to engage similar faces on its companion section to which it is riveted.

1,392,801. ORE-CAR. ALEXANDER ROY, Hill City, S. D. Filed Jan. 6, 1920. Serial No. 349,698. 5 Claims. (Cl. 105—274.)



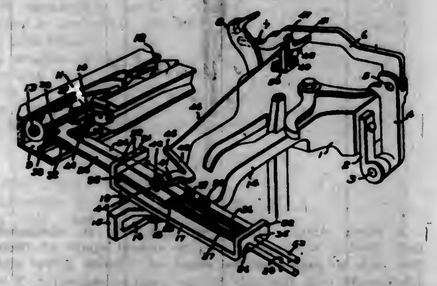
1. An ore car comprising a horisontal wheeled truck, an upwardly opening body normally disposed in horisontal position on the truck and hingedly connected thereto for movement to a vertical position opening forwardly of the truck, and a shovel extension detachably supported in connection with the body for the purpose described.

1,392,802. ELECTRIC FIRELESS COOKER AND RANGE. LESLIE W. SUMMERS, New York, N. Y. Filed Oct. 21, 1919. Serial No. 334,720. 11 Claims. (Cl. 219—35.)



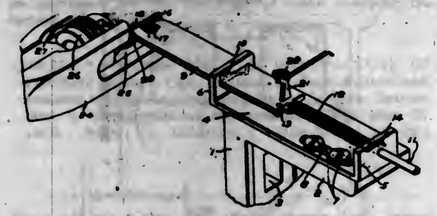
1. In a cooking apparatus, an oven, a movable electrical heating element adapted to be supported in the oven at the various heights, and continuous vertically extending stationary conductors coöperative with said heating element at any height.

1,392,803. FEELER MECHANISM FOR LOOMS. ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Oct. 7, 1919. Serial No. 328,978. 10 Claims. (Cl. 139—85.)



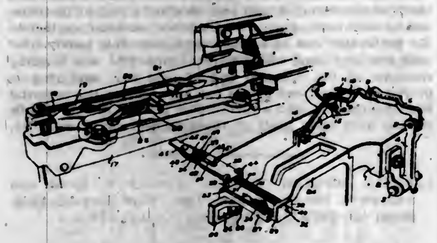
1. In a feeler mechanism for looms, the combination of a feeler movable toward and from the front of the loom, having two feeler tips each mounted for rotary movement in a plane extending longitudinally of the shuttle and held from such movement by the filling on a detecting beat until substantial exhaustion thereof, a feeler tip controller having a portion extending between the two feeler tips and mounted for movement toward and from the front of the loom, connections between the rotary feeler tips and controller for effecting simultaneous frontward movement of the feeler and controller when a working supply of filling is present on a detecting beat and permitting relative movement of the feeler and controller when filling is substantially exhausted, and means operated by relative movement of the feeler and controller for effecting replenishment of filling.

1,392,804. FEELER MECHANISM FOR LOOMS. ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed May 6, 1920. Serial No. 379,265. 6 Claims. (Cl. 139—85.)



1. In a feeler mechanism for looms, the combination of a feeler having engaging end portions extending in opposite directions transversely of the bobbin in the shuttle and laterally separated longitudinally of the bobbin and tending to effect rotation of the feeler on its longitudinal axis under the frontward pressure of a surface within the shuttle on a detecting beat, means for supporting the feeler for longitudinal and rotative movements, and means to effect replenishment of filling when the feeler is rotated on a detecting beat.

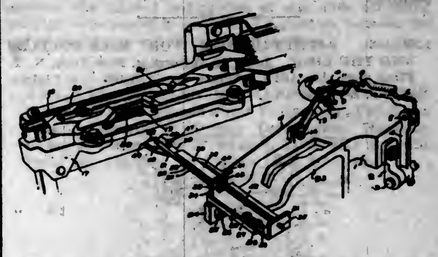
1,392,805. FEELER MECHANISM FOR LOOMS. ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed May 6, 1920. Serial No. 379,266. 12 Claims. (Cl. 139—85.)



1. In a feeler mechanism for looms, the combination of a feeler carrier mounted for movement toward and from the front of the loom, a feeler mounted on the carrier for movement in a direction longitudinally of the shuttle and held from such movement by engagement with the filling on a detecting beat until substantial exhaustion thereof, a gear having a tooth engagement with the feeler, a rack engaged with the gear, a spring acting upon the rack and tending to turn the gear and move the feeler longitudinally of the shuttle under the frontward pressure upon the feeler on a detecting beat, and means for effecting replenishment of filling when the feeler is moved longitudinally of the shuttle.

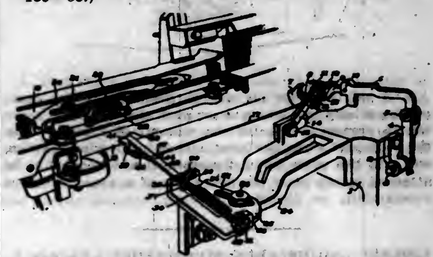
1,392,806. FEELER MECHANISM FOR LOOMS. ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed May 6, 1920. Serial No. 379,267. 11 Claims. (Cl. 139—85.)

1. In a feeler mechanism for looms, the combination of a feeler carrier mounted for movement toward and from the front of the loom, a rack which is fixed relative to the feeler carrier, a feeler that is mounted on the feeler carrier for bodily movement frontward relative thereto and for movement in a direction longitudinally of the shuttle and which is held from such movements by engagement with the filling on a detecting beat until the filling is



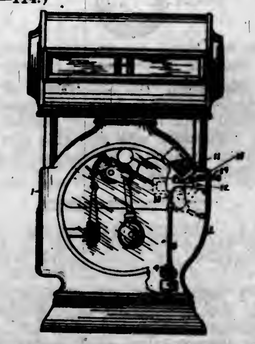
substantially exhausted, and rack teeth on the feeler which engage the fixed rack on the feeler carrier.

1,392,807. FEELER MECHANISM FOR LOOMS. ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Oct. 26, 1920. Serial No. 419,704. 12 Claims. (Cl. 139—85.)



1. In a feeler mechanism for looms, the combination of a feeler that is supported in position inclined to the path of the lay and held from movement longitudinally of the shuttle on a detecting beat by engagement with the filling until substantial exhaustion thereof, and means acting to pry the feeler away from the filling carrier as the feeler is moved in a direction longitudinally of the shuttle on a detecting beat and thereby relieve the pressure of the feeler against the filling carrier.

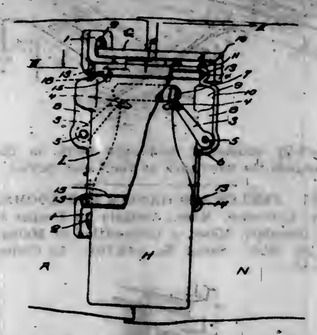
1,392,808. SIGNAL FOR WEIGHING-SCALES. EDWARD G. THOMAS, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Oct. 13, 1917. Serial No. 196,513. 13 Claims. (Cl. 116—114.)



1. The combination with a weighing scale having a frame, of a signal hidden behind a portion of the frame

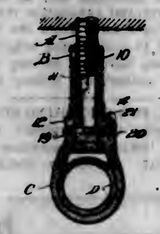
when the scale is level and means whereby the signal is automatically displayed when the scale is out in level position.

1,392,809. SAFETY-HOLDER FOR MILK-BOTTLES AND THE LIKE. JOHN H. WILHELM, New York, N. Y. Filed Feb. 11, 1919. Serial No. 276,409. 4 Claims. (Cl. 232—42.)



1. A safety holder for milk bottles and the like, comprising a body part and a cover part, the cover part serving to prevent access for the removal of a bottle from the body part when the cover part is in covering position, and said two parts being disconnected and adapted to be attached to relatively movable parts of a house structure substantially as described.

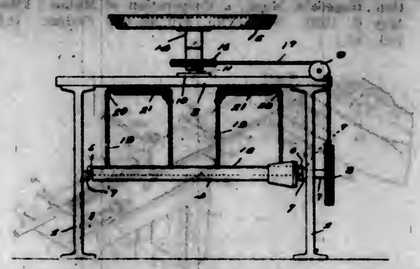
1,392,810. ADJUSTABLE PIPE-HANGER. LOTHAR R. ZIMMANN, Lancaster, Pa. Filed July 26, 1919. Serial No. 313,446. 5 Claims. (Cl. 248—81.)



3. In a pipe hanger, the combination of a threaded sleeve, a carrier rotatably connected thereto, and an element integral with the one part adapted when bent into locking engagement with the other part to prevent relative rotation as well as longitudinal shifting therebetween, substantially as described.

1,392,811. ADVERTISING DEVICE AND PAPER-HOLDER. ALBERT ANDERSON, Miles City, Mont. Filed Apr. 30, 1921. Serial No. 465,871. 1 Claim. (Cl. 211—8.)

A frame, a paper carrying roller journaled in bearings thereon, a shaft extending through the frame and joined to the roller, a grooved wheel on said shaft, a bearing on the top of the frame, a shaft journaled therein, a grooved wheel secured on said shaft, a disk removably connected to the last mentioned shaft, guide wheels at one end of the frame, and an endless belt trained



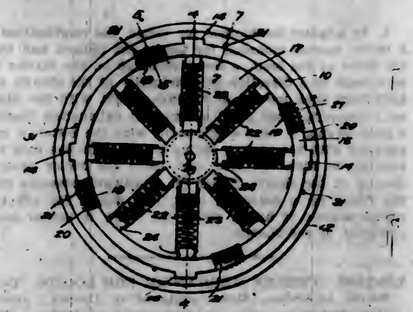
around the grooved wheels and guided by the guide wheels, as and for the purpose set forth.

1,392,812. HAIR WAVER AND CURLER. LEOPOLD BERKOVI, London, England, assignor to La Reine Hair Waver and Curler Company Limited, London, England. Filed Dec. 9, 1919. Serial No. 343,622. 1 Claim. (Cl. 132—42.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



An appliance for waving and curling hair, comprising a straight flat bar and a circular perforation at one end of same, an elastic cord or band permanently attached to the perforated end of said bar, an elastic ring at the loose end of said cord, a sheath of flexible material applied to the perforated end of said bar and extending partly over said attached cord while leaving uncovered and forming shoulder at the opposite end of said bar, said ring to fit the uncovered end of the bar and against the covering shoulder thereon, and a turned-over portion of said sheath to fold over upon itself at the attached end of said bar.

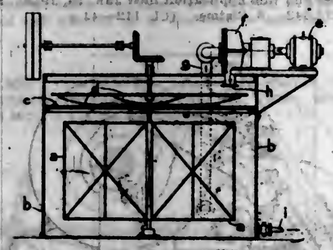
1,392,813. SPRING-WHEEL. HORACE L. BUSH and ANDREW J. BRYAN, Graham, Tex. Filed July 13, 1920. Serial No. 395,833. 2 Claims. (Cl. 152—28.)



1. A spring wheel comprising a rim, a felly body secured to said rim and formed of mating sections recessed upon their confronting faces to define a slot when assembled, a disk having a central hole for conforming engagement upon an axle and having its outer portion resting within said slot, said disk being formed with openings arranged in a circular series, coil springs disposed within said openings, disks engaging the ends of said springs

with the outer set of disks engaging the inner periphery of the felly, and cover plates connected with the rim and formed centrally with relatively large openings for the passage of a hub and having said openings surrounded by flanges extending toward each other and constituting an abutment for the inner set of disks engaging the springs.

1,392,814. PROCESS FOR THE MANUFACTURE OF CAUSTIC SODA. CARL CRAMER, Zurzach, Switzerland, assignor to Schweizerische Sodafabrik, Zurzach, Switzerland, a Corporation of Switzerland. Filed May 24, 1920. Serial No. 383,902. 1 Claim. (Cl. 23—22.)



A process for the production of caustic soda (soda lye) consisting in emulsifying a soda solution with lime milk in the cold in a turbomixer comprising at least one turbine wheel, substantially as described.

1,392,815. METHOD OF AND MEANS FOR DETECTING IRREGULARITIES IN TRANSMISSION-LINES. GROSVENOR CRAWFORD, Hoboken, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 15, 1919. Serial No. 330,838. 11 Claims. (Cl. 179—175.)

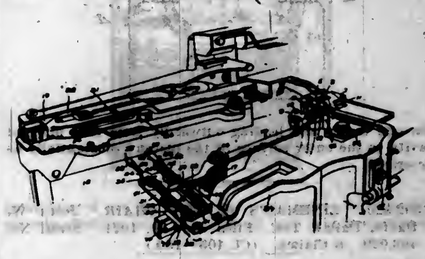
9. The method of testing a line for a distant irregularity, which consists in comparing a sending current with respect to phase relation with the current reflected back by the irregularity.

1,392,816. CLASP. FRED W. CROCKER, Los Angeles, Calif. Filed July 6, 1920. Serial No. 394,077. 3 Claims. (Cl. 24—251.)



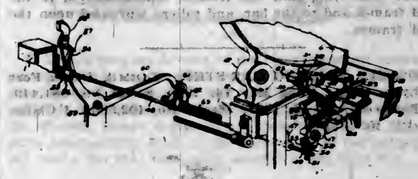
1. In a clasp, a fixed jaw member, a slide bar guided thereon having a tapered end portion, a movable jaw member pivoted on said fixed jaw member having an end flange adjacent its pivot turned toward the fixed jaw member, the tapered end portion of said slide bar being adapted to be moved in and out of a position between the end of said flange and the fixed jaw member.

1,392,817. FEELER MECHANISM FOR LOOMS. EDWARD A. CUNNIFF and JOHN V. CUNNIFF, Fall River, Mass., assignors to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed May 8, 1920. Serial No. 379,786. 12 Claims. (Cl. 139—85.)



1. In a feeler mechanism for looms, the combination of a feeler that is mounted to enter the side of a shuttle and feel for the filling, a detector bunter carried by the shuttle, a shuttle detector mounted to be engaged by the bunter on a detecting beat of the lay and to be displaced laterally by the bunter when the shuttle is not properly boxed, and means for moving the feeler laterally when the shuttle detector is moved laterally.

1,392,818. FEELER MECHANISM FOR LOOMS. EDWARD A. CUNNIFF and JOHN V. CUNNIFF, Fall River, Mass., assignors to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed May 20, 1920. Serial No. 382,823. 12 Claims. (Cl. 139—85.)

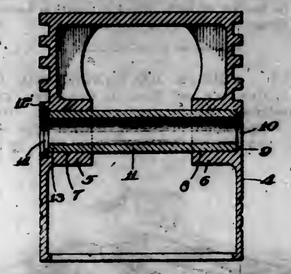


1. In a feeler mechanism for looms, the combination of a feeler supported at the front of the loom on the replenishing side to enter the shuttle and detect the condition of filling, a transferrer, a dog connected to the transferrer, and normally positioned to effect replenishment of filling as the lay beats up, and a dog displacer operated by the feeler when it detects a working supply of filling present in the shuttle on a detecting beat to move the dog to an inoperative position and prevent the transfer.

1,392,819. PISTON-WRIST-PIN CONSTRUCTION. FRANK FOSTER DAVIS, Chester, Pa. Filed Dec. 8, 1919. Serial No. 343,226. 2 Claims. (Cl. 74—108.)

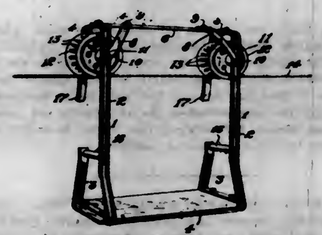
2. A piston having a hole bored through one side and an axially opposed cavity in the other side leading outwardly from the inner surface and terminating in a shoulder; a hollow wrist pin having opposite ends bearing in said hole and cavity whereby one end of the pin abuts said shoulder; and locking means within said hole for

holding the pin in place, said second mentioned side of the piston having a hole of smaller diameter than the



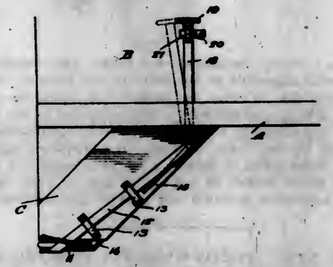
pin and cavity and leading outwardly from said pin and cavity to the outer surface of the piston; substantially as described.

1,392,820. LINEMAN'S SAFETY-CHAIR. JOHN W. DAVIS, Dallas, Tex. Filed Apr. 20, 1921. Serial No. 463,029. 8 Claims. (Cl. 105—150.)



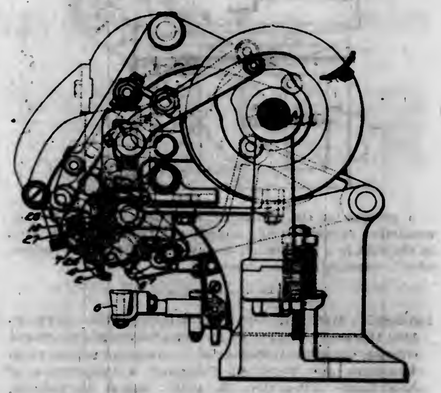
1. In a chair of the class described, the combination of a pair of end frames, a seat formed on said end frames, a bar connecting said end frames, braces secured to the end frames and to the bar, and rollers journaled upon the end frames.

1,392,821. FOLDING CAR-STEP. TOMMIE DAVIS, Fort Lyon, Colo. Filed May 14, 1920. Serial No. 381,449. Renewed Aug. 15, 1921. Serial No. 492,586. 1 Claim. (Cl. 105—448.)



An extension car step comprising an auxiliary step pivotally connected by hangers at the lower end of stationary steps and movable to extend therebelow or to lie flat against the underside of the lowermost step, brackets secured upon the sides of the stationary steps, a longitudinally movable bar slidable through said brackets and rigidly connected with the auxiliary step, the sides of the stationary steps being formed with elongated slots, a cross bar connecting said longitudinally slidable bars and slidable through said slots, a lever connected with one end of said cross bar, a U-shaped bracket carried by said lever, and a stationary bracket secured above the stationary steps and having an offset end adapted to be engaged within said U-shaped bracket whereby to hold said lever against movement.

1,392,822. SEWING-MACHINE. ANDREW EPPLER, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Nov. 27, 1916, Serial No. 133,625. Divided and this application filed Jan. 16, 1918. Serial No. 212,042. 8 Claims. (Cl. 112—41.)



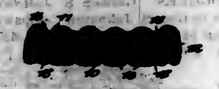
1. A waxed thread sewing machine having, in combination, a looper, a channel guide, a heating body, a looper carrier in contact therewith, a channel guide carrier and a conductive metallic connection for heating the channel guide carrier directly from the heating body.

1,392,823. CUSHION-HEEL FOR SHOES AND THE LIKE. HARRY FABGENSON, Chicago, Ill. Filed July 6, 1918. Serial No. 243,655. 1 Claim. (Cl. 36—75.)



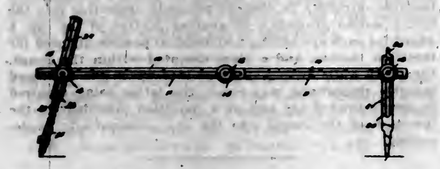
As a new article of manufacture, a reinforcement block for resilient heels comprising an arcuate member and a single lug or tongue rigid therewith, and located centrally thereof and extending in the direction of the concave face of said arcuate member, said lug or tongue lying outside of the space embraced between the planes of the upper and lower surfaces of the arcuate member and being of less width than the length of the arcuate member and serving to provide abrupt shoulders at its sides at the point of junction with the arcuate member, substantially as and for the purpose set forth.

1,392,824. DENTAL BRIDGE. JOSEPH B. FOSTER, Roanoke, Va. Filed Nov. 6, 1920. Serial No. 422,266. 3 Claims. (Cl. 32—12.)



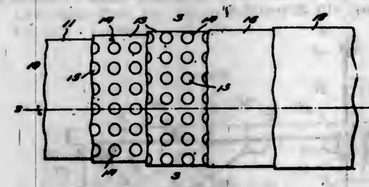
1. A dental bridge comprising a flanged backing for an artificial tooth, and dowel pins secured to the flanges thereof and adapted to be anchored in adjacent natural teeth.

1,392,825. COMPASSES. RAMON GONZALES, Manila, Philippine Islands. Filed Mar. 15, 1920. Serial No. 365,892. 2 Claims. (Cl. 33—158.)



1. A compass embodying a pair of bars slotted substantially throughout their lengths, means extending through the slots of the bars for pivotally and adjustably connecting them together, a slotted leg slidingly and pivotally connected to each of the bars and capable of being arranged parallel or at an angle with respect to the other leg, a needle point carried by one of the legs and a split sleeve carried by the other leg.

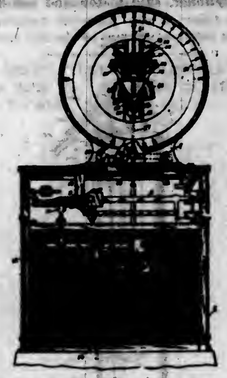
1,392,826. INNER TUBE. WILEY P. GORDON, Edgefield, S. C., and THOMAS B. JACOCKS, Tarboro, N. C. Filed May 22, 1920. Serial No. 383,511. 5 Claims. (Cl. 152—13.)



1. The combination with a tube for pneumatic tires, of a plurality of individual compartments provided around the circumference of the tube and arranged in superimposed staggered relation and a filling material within said compartments, said material being adapted to enter and fill a puncture in said tube.

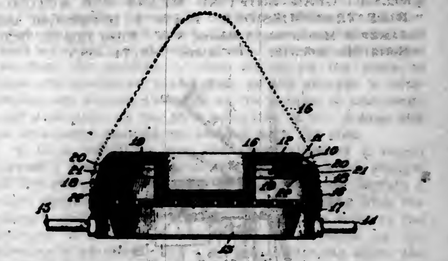
1,392,827. WEIGHING-SCALE. HALVOR O. HEM, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Aug. 14, 1916. Serial No. 114,785. 21 Claims. (Cl. 265—62.)

1. A scale having a beam weighing mechanism and automatic dial indicating weighing mechanism, said beam weighing mechanism and automatic weighing mechanism



being located one above the other, and means for simultaneously effecting total weighings on both said mechanisms.

1,392,828. HAT-SHAPING DEVICE. AUGUST G. HENKEL, Chicago, Ill., assignor to D. B. Fisk & Co., Chicago, Ill., a Corporation of Illinois. Filed May 21, 1918. Serial No. 235,825. 3 Claims. (Cl. 223—31.)

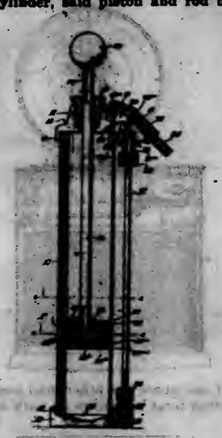


1. In hat shaping devices of the class described, consisting of a hot-plate provided with a perforated top, a hat shaping die superimposed centrally on the hot-plate and a flexible hood secured at the sides of the hot-plate over the die, die-seat means comprising a metallic band of dimensions substantially equal to the dimensions of the hot-plate top, and a flat ring removably secured to the band top.

1,392,829. TIRE-PUMP. FRED HJORTH, Harlan, Iowa. Filed July 17, 1920. Serial No. 396,962. 1 Claim. (Cl. 230—27.)

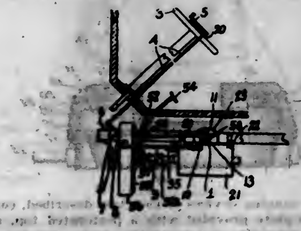
A pump comprising, a cylinder, a head casting detachably associated with the upper end of the cylinder, a pocket formed in the head casting, a discharge nozzle supported by the head casting and in communication with said pocket, a screw plug closing said pocket, a passage formed in the head casting and effecting communication between said pocket and the upper end of said cylinder, a second passage formed in the head casting and communicating with said pocket, a base casting detachably associated with the lower end of said cylinder, a passage formed in the base casting, a pipe arranged at one side of the cylinder, said pipe being detachably associated with the base and head castings and in communication with the passage of the base casting and the second passage of the head casting, valve seats formed in the passages of the head casting, a rounded portion arranged between said seats, a ball valve movable in said pocket and adapted to engage either of

said cents, a piston movable within said cylinder, and a piston rod connected to said piston and extending exteriorly of said cylinder, said piston and rod being formed



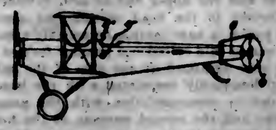
to admit air to said cylinder at a point above the piston as the latter is descending and at a point below the piston as the same is ascending.

1,392,830. GEAR-SHIFTING MEANS FOR AUTOMOBILE TRANSMISSIONS. Frank J. Hofmeister and James O. Middaugh, Yonkers, N. Y. Filed July 23, 1920. Serial No. 398,378. 14 Claims. (Cl. 74—58.)



1. The combination in gear shifting means, of movable toothed heads equipped to move gears, a laterally-movable selector to coöperate with the teeth of said heads, a tubular shaft on which the selector is laterally shiftable and by which the selector is turned, and a shaft movable endwise in the tubular shaft and by which the selector is shifted laterally on the tubular shaft.

1,392,831. MEANS FOR VARYING THE SPEED AND STOPPING WAY OF AIRCRAFT WITHOUT SLOWING THE PROPELLER. John George Aulsebrook Kitchen, Lancaster, England. Filed July 20, 1920. Serial No. 390,164. 1 Claim. (Cl. 244—29.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



In apparatus for varying the speed or way of aircraft without varying the propeller speed, the combination consisting of a pair of rudders, means for moving the rearward edges of said rudders into contact to form an air pocket, and means for tilting the said rudders in a vertical plane to elevate or depress the air craft, as set forth.

1,392,832. GOGGLES. George S. Johnston, Evanston, Ill., assignor to Geo. S. Johnston Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 15, 1919. Serial No. 323,990. 2 Claims. (Cl. 2—140.)

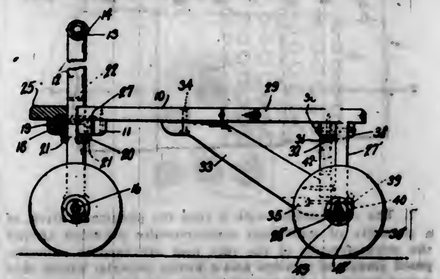


1. A goggle comprising a frame formed to provide two eyes each having a slotted bridge portion protruding from one side thereof, the frame of the eye being severed at one portion adjacent the bridge to provide an arm having capacity for receding into the slot, the arm carrying on its movable extremity an element normally projecting into the eye, a second projection in another portion of the eye, a guard for each eye having a cylindrical portion adapted for insertion therein, and a glass mounted within the guard, the guard walls having openings into which the fixed and movable projections may enter, the latter being required to recede toward the slot as a condition precedent to the insertion of the guard into the eye, substantially as described.

1,392,833. MERCERIZATION. Samuel Mansfield Jones and Ivan Othma Harlow, North Adams, Mass., assignors to Arnold Print Works, North Adams, Mass., a Corporation of Massachusetts. Filed June 21, 1921. Serial No. 479,414. 10 Claims. (Cl. 8—20.)

9. The method of treating textile fabrics composed of cotton fibers intermixed with artificial silk filaments of viscose for the purpose of mercerizing such cotton fibers without injury to the viscose silk by subjecting the composite fabric thus constituted to a process of mercerization wherein the mercerizing solution of caustic alkali is modified by the addition thereto of potassium acetate dissolved therein to substantially the full extent of its solubility.

1,392,834. TOY VEHICLE. John M. Kramlich, Fox Chase, Pa. Filed Oct. 19, 1920. Serial No. 417,891. 2 Claims. (Cl. 208—165.)



1. In a device of the class described, a body portion, a steering head and steering wheels mounted thereon, a bolster including a plurality of relatively adjustable elements, means for securing the elements when adjusted, a diagonal brace connected with said bolster and with the body of the vehicle, the brace having permanent connection with one part of the bolster and having detachable connection with the other part thereof, and the brace being cut away to permit a portion thereof to pass under one part of the bolster.

1,392,835. MINING-MACHINE TRUCK. Nils D. Levin, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Nov. 21, 1916. Serial No. 132,682. 21 Claims. (Cl. 105—161.)



16. In a truck for holding and transporting an elongated mining machine, the combination with a rigid truck frame supported on wheels adapted to travel over the mine tracks, of a supplemental elongated tiltable body frame with which the mining machine has lateral engagement and which is adapted to support said machine in traveling position upon the truck or to guide it to or from positions on the mine floor at either side of said tracks.

1,392,836. MINING-MACHINE TRUCK. Nils D. Levin, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Nov. 21, 1916, Serial No. 132,683. Renewed Apr. 3, 1920. Serial No. 371,148. 12 Claims. (Cl. 105—161.)



11. In a truck mechanism of the class described, having two wheel mounted axles, two vertically tiltable frame sections hinged together, one being a load-carrying frame which when in normal position extends longitudinally backward from the hinge axis over the other frame section and over the rear axle, each frame section being pivoted on its own axle, and the front end of the forward section being normally free to tilt downward when the front end of the rear section tilts upward.

1,392,837. SELF-FILLING FOUNTAIN-PEN. Hyman Lewinson, Erie, Pa. Filed Feb. 21, 1921. Serial No. 446,755. 1 Claim. (Cl. 120—47.)



In a self-filling pen, the combination of an outer barrel; an inner barrel surrounded by the outer barrel and communicating at its upper end with the outer barrel and having a feeding passage at its lower end, the inner barrel and the chamber between the barrels being of equal capacity; a plunger between the barrels; and a plunger stem extending out of the top of the outer barrel.

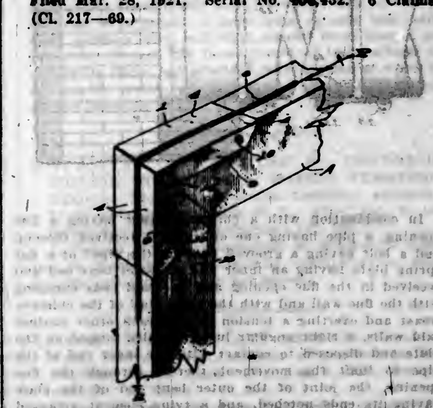
1,392,838. SELF-FILLING FOUNTAIN-PEN. Hyman Lewinson, Erie, Pa. Filed Feb. 21, 1921. Serial No. 446,756. 7 Claims. (Cl. 120—47.)



2. In a self-filling pen, the combination of a barrel having a feeding opening in the bottom thereof; a plunger in the barrel, the plunger having an opening therethrough with a locking slot therein; a valve acting on the plunger to close the opening; a stem acting on the valve to close the opening in the plunger as the plunger is withdrawn and to open the same as the plunger is advanced; and a shoulder on the stem operating in the locking slot to detachably connect the plunger with the stem.

4. In a self-filling pen the combination of a barrel having a feeding opening at the bottom; a valve plunger in the barrel; a valve plate at the top of the barrel; a valve operating on the plate; a stem extending from the plunger and actuating the valve to open the same as the plunger is withdrawn and to close the same as the plunger is advanced; and a vented closure cap above the valve plate.

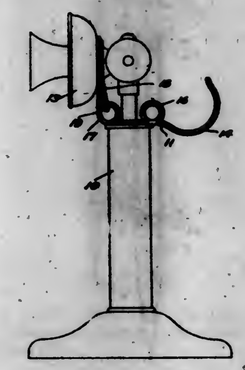
1,392,839. CORNER-BRACE. Jacob Lill, Chicago, Ill. Filed Mar. 28, 1921. Serial No. 456,432. 6 Claims. (Cl. 217—69.)



1. As a new article of manufacture, a corner brace formed of a rectangular sheet of metal bent diagonally

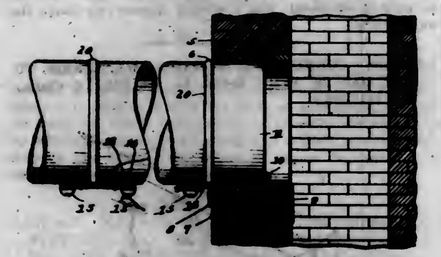
to provide abutting portions, the edge portions of said sheet bent transversely to the abutting portions to form clamping portions.

1,392,840. SANITARY TELEPHONE DEVICE. WILLIAM W. LUKENBACH, Philadelphia, Pa. Filed Sept. 28, 1920. Serial No. 413,393. 2 Claims. (Cl. 179—153.)



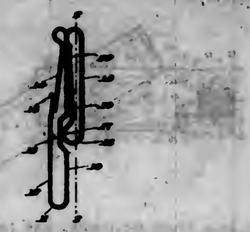
2. The combination with a telephone instrument, of an attachment embodying a transmitter receiving loop, horizontally arranged substantially parallel side bars adapted to rest upon a shoulder provided upon the upper end of the instrument and a receiver seat extending from said arms and disposed upon one side of the instrument.

1,392,841. STOVEPIPE-HOLDER. JOSEPHINE MCCOY, Sandusky, Ohio. Filed Jan. 15, 1919. Serial No. 271,244. 1 Claim. (Cl. 126—318.)



In combination with a chimney breast having a flue opening, a pipe having one of its ends received therein, and a bolt having a grooved head on the pipe; of a flat spring plate having an inner and an outer bent end and received in the flue opening and the said ends engaging with the flue wall and with the outer wall of the chimney breast and exerting a tension toward each other against said walls, a right angular lug integrally formed on the plate and disposed to contact with the inner end of the pipe to limit the movement thereof through the flue opening, the joint of the outer bent end of the plate having its ends notched, and a tying element arranged around said joint, and received in the notches thereof and secured in the grooved head of the bolt on the pipe.

1,392,842. HOLDER. JOHN B. MANALAKIS, Opelousas, La., assignor of one-third to Charles P. Halios and one-third to George J. Cajoleas, Opelousas, La. Filed June 13, 1921. Serial No. 477,244. 1 Claim. (Cl. 24—8.)



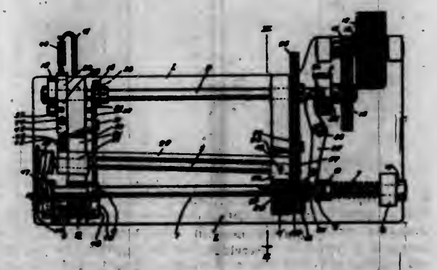
A key ring holder formed from a single strip of metal bent to provide a substantially straight member, overlapping tongues extending from each end of said member and defining a ring receiving loop, a relatively short loop located upon the opposite side of said member, one end of the last mentioned loop extending from and being connected to the substantially straight member, an enlarged extremity formed on the free end of the relatively short loop and a depressed seat formed in said substantially straight member for receiving the enlarged extremity of the last mentioned loop.

1,392,843. BACKBAND-HOOK. WILLIAM C. MARTIN, Memphis, Tenn. Filed Mar. 30, 1921. Serial No. 456,833. 5 Claims. (Cl. 54—58.)



5. A back-band hook comprising a body portion formed with a hook proper and having a slot adapted to receive a fold of the back-band, the end portions of the body adjacent said slot being upturned, and a pin of shorter length than the slot and having tapered ends fitting within said folded portion to secure the hook, said upturned portions and the tapered ends of the pin coacting to cause the folded portion of the back-band to be gathered at the ends thereof, substantially as set forth.

1,392,844. CAP-THREADING MACHINE. AUGUSTUS L. MERELLE, Brooklyn, N. Y., assignor to Leslie R. N. Carvalho, Brooklyn, N. Y. Filed Dec. 23, 1918. Serial No. 268,430. 13 Claims. (Cl. 153—72.)



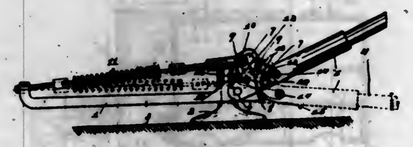
1. A machine for threading caps and the like comprising a pair of rotatable dies, means for positively rotating both of said dies, means for moving one of said dies in a direction toward and away from the other, means for moving one of said dies in a direction transverse to said first mentioned direction, a holder for holding a cap in a position to receive one of said dies, and means to expel the finished cap from said holder.

1,392,845. PLOW AND PULVERIZER. AYRES PHILLIPS MERRILL, Natchez, Miss. Filed May 7, 1920. Serial No. 379,607. 3 Claims. (Cl. 97—23.)



1. A device of the character described comprising a wheeled frame provided with draft means, a plow blade carried by the frame, a diagonally disposed horizontally arranged rotary cutter journaled upon the frame forwardly of and above the plow, and means for rotating said cutter, said means comprising a gear mounted upon one of the wheels supporting the frame, and a train of gearing connected with said gear and cutter.

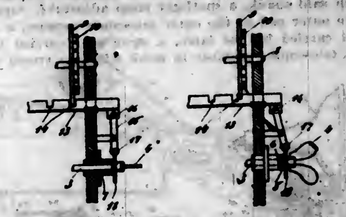
1,392,846. TROLLEY-MOUNT. HUGH J. MURPHY and EDWARD F. MURPHY, Troy, N. Y. Filed Feb. 23, 1921. Serial No. 447,085. 4 Claims. (Cl. 191—88.)



1. In a device of the class described and in combination, a trolley-pole-support; a trolley-pole-base pivotally mounted upon said support and provided with a slot approximately at right angles to the axis of the trolley-pole, said slot being formed with two seats at different distances from the pivot of the trolley-pole-base; a pin movable along said slot and seatable in the respective seats; and a trolley-pole-supporting spring-connection between said pin and said support, acting with less force when the pin is seated in the outer, than when the pin is seated in the inner, of said seats, said pin being automatically shifted from the inner to the outer seat when the trolley-pole is in approximately vertical position.

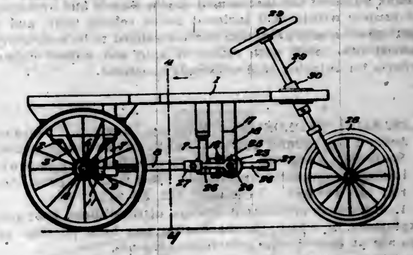
1,392,847. LOCKING DEVICE IN CALCULATING-MACHINES. VALENTIN JAKOB ODHNER, Stockholm, Sweden. Filed June 11, 1919. Serial No. 303,413. 4 Claims. (Cl. 235—79.)

1. In a calculating machine the combination with calculating wheels, a carriage, registering wheels provided in the said carriage and a rotatable axially movable shaft for returning the said registering wheels to zero, of a catching device and means connecting the said device with the said shaft in such manner that its functionating is dependent on axial movement of the shaft, the said catching device locking the calculating wheels, when the carriage is in proper position and the said shaft is in



wrong position and locking the said shaft when the calculating wheels are in wrong position.

1,392,848. TRICYCLE. GEORGE A. OLSEN, Jersey City, N. J. Filed July 16, 1920. Serial No. 396,862. 1 Claim. (Cl. 208—55.)



A wheeled toy of the character described comprising a platform, a pair of spaced brackets depending from the underside of the platform at its rear end, a transverse shaft journaled through said brackets and carrying ground engaging wheels, a bevel gear on said shaft, a pair of spaced parallel brackets depending from the underside of the platform transversely thereof at the intermediate portion, a shaft journaled through said second named brackets and extending longitudinally of the platform below the center thereof, a bevel gear on the rear end of said second named shaft meshing with said first named bevel gear, a bevel gear on the forward end of said second named shaft, a pair of transversely alined brackets depending from the underside of said platform near the forward end thereof, a crank shaft journaled through said last named transversely alined brackets and provided at its ends with pedals, a bevel gear on said last named shaft meshing with said third named bevel gear, a post journaled through the forward end of the platform and having its upper end provided with a steering wheel and having its lower end forked and carrying a dirigible ground engaging wheel.

1,392,849. MANUFACTURE OF DISPERSOIDS, COLLOID POWDER AND MASSES THEREFROM. HERMANN PLAUSON, Hamburg, Germany, assignor to D. R. Rotman, New York, N. Y. Filed Feb. 8, 1921. Serial No. 443,423. 15 Claims. (Cl. 252.)

1. Process for the manufacture of dispersoids consisting in intensively mechanically disintegrating soluble colloids (gel type) with a non-solvent.

1,392,850. SPOTLIGHT-LAMP BRACKET. FRANK W. RUSS, Seattle, Wash., assignor of one-half to D. H. Hotchkin, Seattle, Wash. Filed Aug. 5, 1920. Serial No. 401,301. 5 Claims. (Cl. 240—7.)

1. In a device of the class described, a normally horizontal tubular shank arranged to be secured to one side

of an inclosed motor vehicle body adjacent the edge of the wind shield, telescoping members extending lengthwise within said shank, a spotlight lamp adjustably supported at the outer end of the outer telescopic member, a crown wheel carried by the lamp, a spur gear carried by the inner telescoping member in mesh with the crown wheel,



crown wheels secured to the inner ends of said telescoping members, an actuating shaft extending crosswise of said shank adjacent the last named crown wheels and arranged to project within said inclosed motor vehicle body, and a spur gear on said actuating shaft arranged to be selectively moved into mesh with either of said last named crown wheels for rotating said telescopic members.

1,392,851. EXPLOSIVE. WILLIAM RINTOUL, THOMAS JOSEPH NOLAN, and OLIVER WARD STICKLAND, Stevenston, Scotland, assignors to Nobel's Explosives Company, Limited, Stevenston, Scotland. Filed Oct. 19, 1920. Serial No. 418,082. 7 Claims. (Cl. 52—13.)

1. Hardened granulated fibrous nitrocellulose shot-gun explosives in which the hardening has been effected by the aid of non-volatile gelatinizing agents.

1,392,852. PROCESS OF PREPARING ETHYLENE AND OTHER UNSATURATED HYDROCARBONS. WILLIAM H. ROSS, Washington, D. C., assignor of one-half to William Lloyd Evans, Columbus, Ohio. Filed June 1, 1920. Serial No. 386,700. 14 Claims. (Cl. 23—24.)

(Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. In a process of making unsaturated hydrocarbons, treating a metallic catalyst with hydrogen, then with a less saturated hydrocarbon than that which it is desired to produce and conducting a mixture of hydrogen and the less saturated hydrocarbon in contact with the treated catalyst.

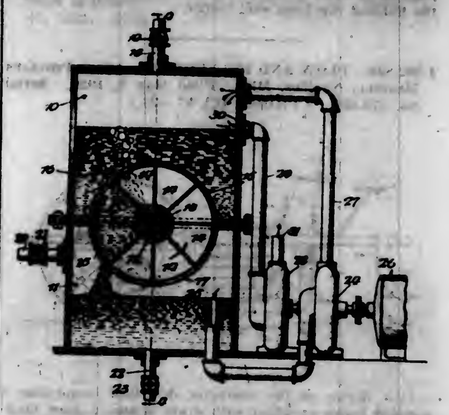
1,392,853. PNEUMATIC TIRE. HENRY HYDES, New York, N. Y. Filed Nov. 12, 1920. Serial No. 423,519. 7 Claims. (Cl. 152—22.)



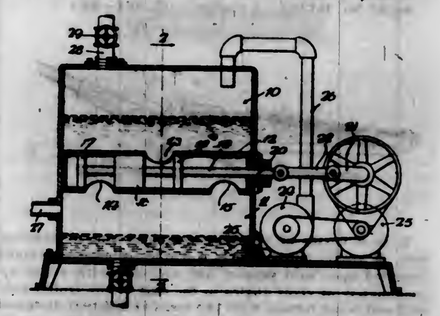
1. A tube for a pneumatic tire, comprising a plurality of air chambers separated by transverse partitions each provided with an aperture and a pair of valve flaps connected for simultaneous movement associated with each partition and aperture, whereby the tube may be inflated from one point and whereby loss of air is localized to the chamber in which a puncture takes place.

1,392,854. HYDRAULIC AIR-COMPRESSOR AND VACUUM-PRODUCER. BENJAMIN SKIDMORE, Jr., Chicago, Ill. Filed Feb. 21, 1916. Serial No. 219,618. 42 Claims. (Cl. 230—36.)

7. An apparatus of the character described embodying an element, a reservoir for impounding a desired quantity of water at a desired elevation above said element, said element operating to control the discharge of water from the said reservoir, a reservoir for receiving water discharged by the said element, said element also operating to withdraw fluid or vapor from the second recited reservoir and deliver the same into the first recited reservoir, and mechanism for imparting a reciprocating movement to the said element.



1,392,855. HYDRAULIC AIR-COMPRESSOR AND VACUUM-PRODUCER. BENJAMIN SKIDMORE, Jr., Chicago, Ill. Filed Aug. 12, 1918. Serial No. 249,499. 10 Claims. (Cl. 230—16.)



1. An apparatus of the character described embodying a reciprocable element, a reservoir for impounding a desired quantity of water at a desired elevation above said element, said element operating to control the discharge of water from the said reservoir, a reservoir for receiving water discharged by the said element, said element also operating to withdraw fluid or vapor from the second recited reservoir and deliver the same into the first recited reservoir, and mechanism for imparting a reciprocating movement to the said element.

1,392,856. HYDRAULIC AIR-COMPRESSOR AND VACUUM-PRODUCER. BENJAMIN SKIDMORE, Jr., Chicago, Ill. Filed Aug. 12, 1918. Serial No. 249,500. 8 Claims. (Cl. 230—16.)

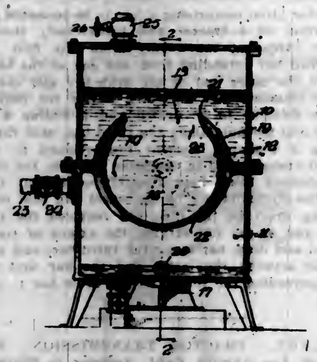
1. In combination, means embodying a rotatable element for removing a portion of liquid from a supply of liquid, the said element also operating to deliver air or a gaseous fluid into the said supply of liquid to replace

the liquid removed therefrom by the said element, and provisions for inducing circulation of a portion of the said supply or body of liquid against one portion of the



said element and at a tangent thereto, to rotate the element and cause another portion of the element to operate to remove a portion of the liquid.

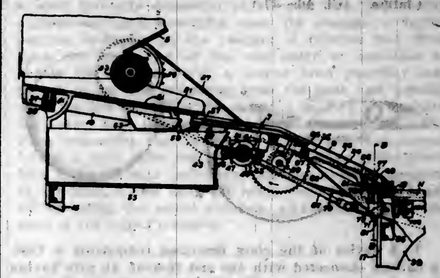
1,392,857. HYDRAULIC AIR-COMPRESSOR AND VACUUM-PRODUCER. BENJAMIN SKIDMORE, Jr., Chicago, Ill. Filed Aug. 12, 1918. Serial No. 249,755. 11 Claims. (Cl. 230—16.)



1. An apparatus of the character described embodying a rotatable element, a reservoir for impounding a desired quantity of water at a desired elevation above said element, said element operating to control the discharge of water from the said reservoir, a reservoir for receiving water discharged by said element, said element being shaped to withdraw fluid or vapor from the second recited reservoir and deliver the same into the first recited reservoir, and power mechanism connected with the said element for rotating it.

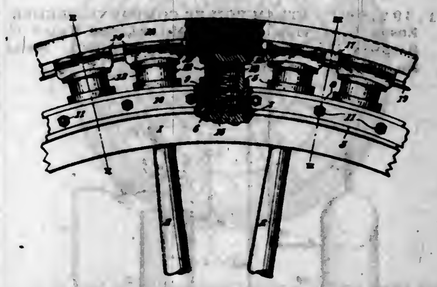
1,392,858. ASSEMBLING-MACHINE. LESTER O. THOMAS, Boston, Mass., assignor to New England Confectionery Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 6, 1917. Serial No. 200,909. 21 Claims. (Cl. 107—46.)

20. A machine of the class described comprising a series of inclines over which pieces gravitate and are assorted, a drive shaft beneath said inclines, a groove cam on the



shaft and a pair of followers secured to two such inclines, both coöperating with the groove of the cam.

1,392,859. SPRING-WHEEL. WILLIAM H. SMITH, Bridgeport, Conn. Filed Nov. 24, 1920. Serial No. 426,147. 1 Claim. (Cl. 152—8.)



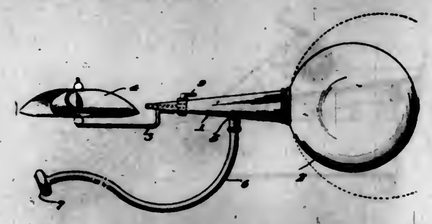
A spring wheel of the type described comprising a wheel felly, a band secured to said felly and having spaced openings therein, cup-shaped members having the inner ends thereof closed and received in said band openings, an outer band having openings therein received on the outer ends of said cup-shaped members, side spacing rings disposed between the felly band and the outer band connecting means between said side rings, plungers within said cup-shaped members, a cushioned tire supported on the outer ends of said plungers, and compression springs extending between said cups and plungers to hold the cups within the band openings and to cushion the tread of the wheel.

1,392,860. FILLING DEVICE FOR FOUNTAIN-PENS. EDWARD PERINA, Port Richmond, N. Y. Filed Mar. 19, 1921. Serial No. 453,579. 2 Claims. (Cl. 120—47.)



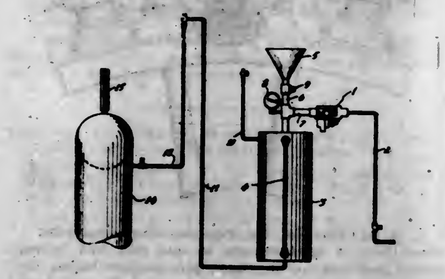
1. A fountain pen including a barrel open at one end and having a bore at its opposite end, a resilient seat at one end of the barrel in proximity to the said bore, a suction plunger movable in the barrel and having a portion thereof normally in engagement with the seat, a stem on the plunger movable into and out of said bore, the bore allowing the movement of the plunger from the exterior of said barrel, and means for holding the said portion of said plunger in engagement with the said seat.

1,392,861. BALLOON TOY. JOHN TABACCO, Rochester, N. Y. Filed July 30, 1920. Serial No. 400,052. 2 Claims. (Cl. 46—37.)



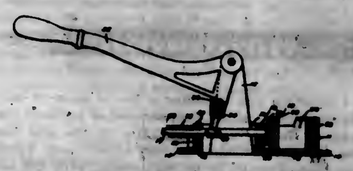
1. A device of the class described comprising a tube, a balloon connected with one end thereof, an arm having one end connected with the tube, a wheel supported by said arm in front of the other end of the tube, a tube having one end connected with the first mentioned tube intermediate its ends, a mouth-piece and check valve carried by said second tube and a valve in the first mentioned tube located between the open end thereof and the connection of the second tube.

1,392,862. STEAM-BOILER-COMPOUND FEEDER. EDSON H. TUTTLE, JOHN C. MILLER, and TRACY C. BALDWIN, Conneaut, Ohio. Filed Apr. 12, 1921. Serial No. 460,853. 1 Claim. (Cl. 210—29.)



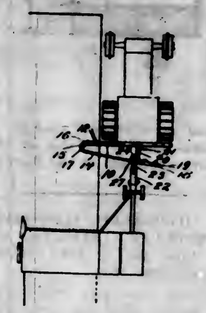
Means for feeding a liquid agent to the feed water line of a steam boiler, comprising a supply tank, means for charging said tank, a sight feed regulator, a pipe intermediate of the supply tank and said regulator, and a pipe leading from the sight feed regulator and adapted to be connected with a conduit in the feed water line; the said charging means and the supply tank being also connected with a pressure regulating valve, and said valve being adapted, in turn, to be connected with a pressure line.

1,392,863. CANDY-PRESSING MACHINE. CHARLES WEBER, New York, N. Y. Filed Oct. 12, 1920. Serial No. 416,352. 6 Claims. (Cl. 107—15.)



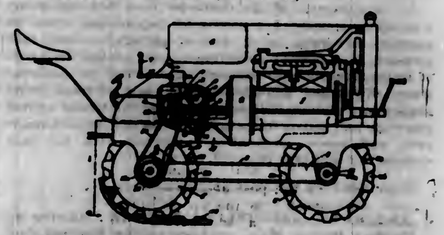
6. A candy pressing machine comprising a frame, said frame including opposed side walls, a bottom, and end walls, a female member arranged upon the bottom and including a substantially cylindrical portion and a substantially semi-cylindrical portion, the latter terminating to provide flanges reposing upon the side walls, a male member arranged to reciprocate within the female member, spaced standards rising from the side walls of the frame, a bell crank lever pivoted between said standards, an operating rod projecting from the male member and associated with one branch of the bell crank lever, whereby said male member is reciprocated, yieldable means for normally holding the male member in a retracted position, the latter mentioned member having a notch and the cylindrical portion of said female member having a slot disposed in aline with said notch for the purpose specified.

1,392,864. TRACTOR-HITCH. CHARLES A. WISE and ELMER B. WISE, Lawrence, Kans. Filed Sept. 11, 1918. Serial No. 253,583. 1 Claim. (Cl. 280—33.8.)



A tractor hitch comprising a bar to be mounted on the rear portion of a tractor and transversely thereof, a draw-bar extending rearwardly from the first named bar, a third bar extending from one end of the bar first named to the outer end of the draw-bar and connected with the elements last named, a device for connection with the machine to be drawn and including a wheel engaging and movable along the third bar, said third bar including a U-shaped element proportioned to receive the wheel and retain it in operative position, the curve of the U element being approximately equivalent to one-half of the circumference of the wheel and said element, permitting draft in the direction required for turning corners, and means for varying the extent of travel of the wheel and draw bar along the third bar, and varying the angle between the latter and the bar first named thereby governing the return of the draw bar to normal position.

1,392,865. TRACTOR TRANSMISSION. SYDNEY CLIFTON, Los Angeles, Calif., assignor to Sherman T. Allen, Los Angeles, Calif. Filed Aug. 28, 1919. Serial No. 320,532. 5 Claims. (Cl. 74—7.)



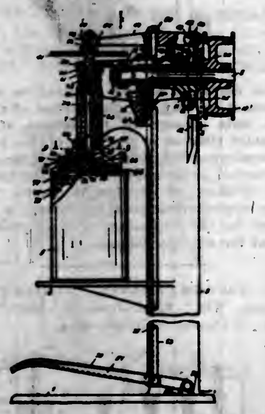
1. In a transmission gear for tractors, the combination with a motor driven shaft, of a worm fixed on said shaft, a pair of shafts journaled in bearings on opposite sides of said worm, a worm wheel carried by each of said shafts and engaging said worm, a pair of pinions of different sizes fixed on the upper one of the worm wheel carrying shafts, a pinion fixed on the lower one of the worm wheel carrying shafts, a journaled shaft arrranged substantially parallel with the worm wheel carrying shafts and a pair of pinions of different sizes splined upon said last mentioned shaft and adapted to engage the pinions on the worm wheel carrying shafts.

1,392,866. SELF-CLEANING TRACTOR WHEEL AND GEAR. SYDNEY CLIFTON, Los Angeles, Calif., assignor to Leonard M. Allen, Burbank, Calif. Filed Dec. 11, 1919. Serial No. 344,165. 1 Claim. (Cl. 301—41.)



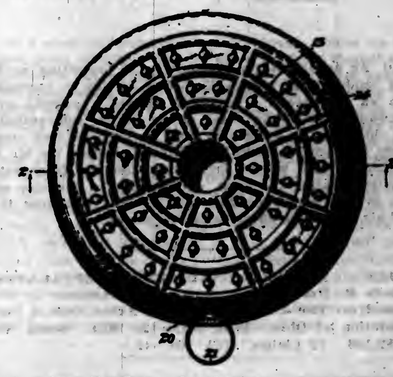
A wheel having the outer face of its rim beveled from one side to the other, teeth formed integral with said rim and projecting outwardly from said beveled outer face, the outer faces of which teeth lie substantially parallel with the axis of the wheel, the side faces of the bodies of the teeth being formed on convergent radial lines so that the bodies of said teeth are substantially wedge shape in cross section, and said side faces also being formed on convergent longitudinal lines so that the bodies of the teeth gradually decrease in thickness toward their higher ends.

1,392,867. FRICTION-TOP CAN-SEALER. FRANK CRAWFORD, Los Angeles, Calif., assignor of one-half to Charles C. Burnett, Los Angeles, Calif. Filed Oct. 27, 1919. Serial No. 333,714. 12 Claims. (Cl. 113—25.)



1. A friction top can sealer comprising a base, a post extending upwardly from the base, a platform extending forwardly from the post above the base, a shaft housing pivotally connected to the upper end of the post in a horizontal position, a spring supporting the forward end of the shaft housing, a shaft in the shaft housing, a pulley upon the rear end of the shaft, a friction wheel upon the forward end of the shaft, a bearing bracket extending forwardly from the upper end of the post, a vertical bearing in the bearing bracket, a plunger slidably and rotatably mounted in the bearing, a cam shaft slidably mounted in the plunger and fixed for rotation therewith, a lever pivotally connected at its rear end and having a fork bearing downwardly upon the plunger, a spring bearing upwardly on the plunger, a friction disk fixed upon the upper end of the cam shaft in condition to engage the friction wheel, a second lever pivotally connected to an arm extending from the post and bearing upon the hub of the friction wheel, a bearing plate above the lever, foot levers pivotally connected to the base, links connecting the foot levers to the first and second levers, a head upon the plunger and having a flat lower face and a circular periphery, plungers radially mounted in the head, a cam upon the lower end of the cam shaft for operating the radial plungers, and balls at the outer ends of the radial plungers.

1,392,868. HEAT-DISTRIBUTER. ARTHUR B. CRUICKSHANK, London, England. Filed Aug. 14, 1920. Serial No. 403,499. 3 Claims. (Cl. 126—215.)



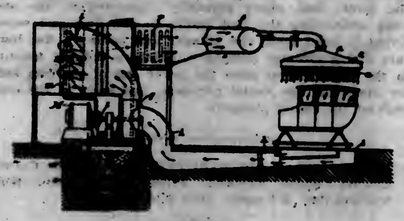
1. A heat distributer plate having a concave upper face provided with a plurality of openings between series of concentric ribs, a cover for each opening, and projections extending from each cover so as to direct the path of heated air and flame which may pass through the opening, against the adjacent portion of the said ribs.

1,392,869. THEFT-SIGNAL FOR MOTOR-VEHICLES. MILLARD J. DOWNEY, Chicago, Ill. Filed July 24, 1920. Serial No. 398,636. 5 Claims. (Cl. 40—61.)



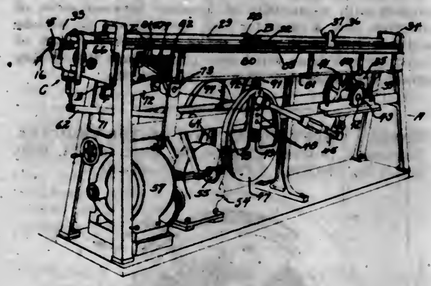
5. In a theft signal for motor vehicles, the combination of a signal body provided with a signal sign, a shutter rotatable upon the body for obscuring or exposing said sign, and locking means carried by the body for securing the shutter in position exposing the sign.

1,392,870. METHOD AND APPARATUS FOR PROTECTING WORKMEN SANDPAPERING AUTOMOBILE BODIES. CHARLES FREELIN, Detroit, Mich., assignor to Fisher Body Corporation, Detroit, Mich., a Corporation of New York. Filed Apr. 7, 1919. Serial No. 288,615. 10 Claims. (Cl. 98—87.)



10. An apparatus for the purpose of protecting workmen sandpapering automobile bodies, having in combination an air shower arranged to deliver a vertical and downwardly traveling sheet of air having substantially the outline of an automobile body in top plan view, registers for location under the body into which the air is exhausted, and means for taking the air from said registers heating the same, eliminating the particles set free by the sand papering operation, and returning the said air under propulsion to the air shower.

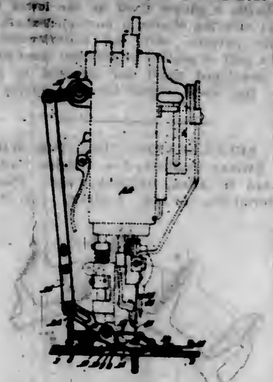
1,392,871. MEASURING AND CUTTING APPARATUS. GLEN B. HEWELFINGER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 12, 1919. Serial No. 282,136. 12 Claims. (Cl. 164—42.)



1. In an apparatus of the character specified, the combination of a slidably mounted reciprocable gripping device, a rotatable drum, a cable connecting the gripping device to said drum, and means for successively rotating said drum in opposite directions, said means including a crank, and a connecting rod adjustably connected to said crank.

1,392,872. SEWING-MACHINE ATTACHMENT. WILLIAM W. HIRK, Zion City, Ill., assignor of one-half to Richard Feuerman. Filed Feb. 2, 1917. Serial No. 146,220. 2 Claims. (Cl. 112—122.)

1. The combination with a sewing machine having the usual sewing table and vertical reciprocating needle, of a knife set with its cutting edge to the rear of said needle; and a separating block having a beveled nose and set on



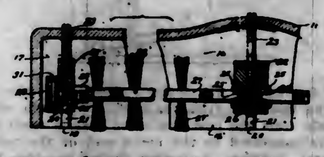
said table to the rear and in the cutting path of said knife, substantially as described.

1,392,873. ELECTRICAL CUT-OUT OR CIRCUIT-BREAKER. WILLIAM HENRY ILLINGWORTH, Halifax, England. Filed July 8, 1920. Serial No. 394,822. 6 Claims. (Cl. 200—113.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In an electrical cut-out, actuated by the breaking of a column of mercury, the combination of a carrier containing a main passage for the column of mercury, a metal contact situated at one side of the main passage and communicating therewith through a branch passage, a metal contact communicating with another portion of the main passage, an overflow to receive the mercury thrown by vaporisation when the column is broken, and an air vent for the free escape of vapor produced by the breaking of the mercury column.

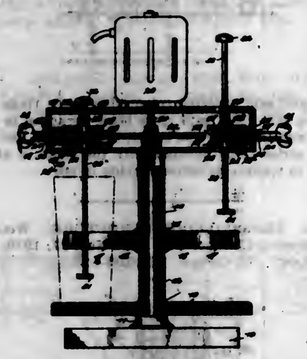
1,392,874. VACUUM-CLEANER. WILLIAM C. JOHNSTON, Milwaukee, Wis. Filed June 14, 1920. Serial No 388,943. 3 Claims. (Cl. 15—60.)



1. A vacuum cleaner in part, comprising a cleaner casing having a brush chamber and a nozzle and wheel chambers at opposite ends of the nozzle, bearing blocks vertically slidably positioned in the end portions and a medial portion of the brush chamber, right and left handed threaded screws threaded through the upper wall

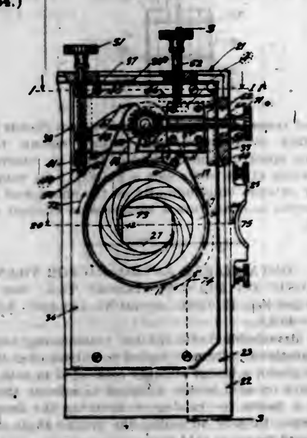
of the brush chamber and into the bearing blocks, short shafts journaled in the end blocks and having sockets on their inner ends and grooved pulleys on their outer ends, horisontally slidable bearings mounted in the opposite side portions of the medial bearing block, a coiled spring interposed between the slidable bearings, brushes within the brush chamber and having their shaft ends removably extending into the medial bearings and into the socketed ends of the short shafts, grooved supporting wheels journaled in the wheel chambers and having belted connections with the grooved pulleys.

1,392,875. DRINK-MIXER. MORRIS LANGHAUS, New York, N. Y. Filed Feb. 7, 1921. Serial No. 443,117. 6 Claims. (Cl. 259—181.)



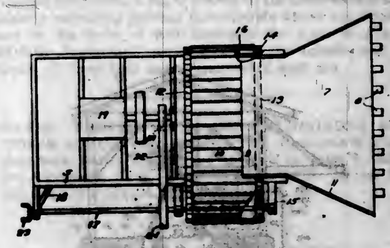
1. In a device of the class described, the combination of a base, a glass stand rotatably mounted thereon, a glass holder secured to for rotation with said stand, and a plurality of agitating devices mounted for movement with said stand and holder.

1,392,876. ADJUSTABLE IRIS FOR CAMERAS. JOHN E. LEONARD, Los Angeles, Calif., assignor, by mesne assignments, to Mitchell Camera Co., a Corporation. Filed Nov. 7, 1919. Serial No. 336,393. 11 Claims. (Cl. 95—64.)



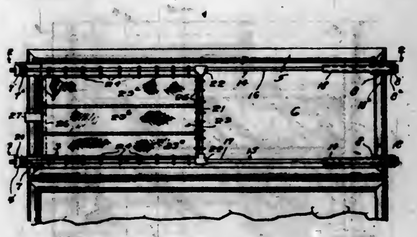
1. A camera having an iris between the photographing lens and the exposure aperture, and means for raising and lowering the iris aperture.

1,392,877. SNOW-REMOVING MACHINE. ERNEST C. MIDGLEY, Wheatland, N. D. Filed Mar. 8, 1920. Serial No. 364,668. 1 Claim. (Cl. 37—25.)



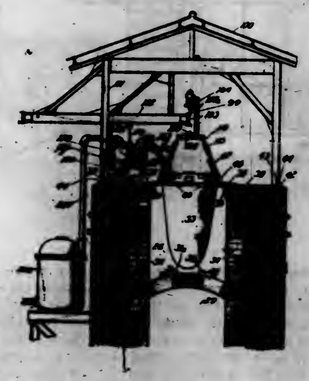
In a snow removing machine, a portable frame, an inclined plate extending entirely across the front thereof and beyond the line of travel of the frame, said plate having upstanding wings at its opposite sides and converging upwardly and rearwardly to come within the confines of the portable frame, a laterally acting horisontal conveyer disposed beneath the upper rear edge of said plate upon said frame and extending in substantial parallelism therewith, the discharge end of said conveyer being extended beyond the line of travel of the front edge of the plate, said conveyer comprising an endless traveling flight and rotative elements over which said flight passes and by means of which movement is imparted to said flight, a shaft supported from the side of the portable frame and outwardly thereof and upon which said rotative elements are mounted and a power imparting element at the rear end of said shaft by means of which motion may be imparted to said shaft from a point outside the portable frame.

1,392,878. DIMMER. ERNEST C. MIDGLEY, Wheatland, N. D. Filed Jan. 28, 1921. Serial No. 440,748. 2 Claims. (Cl. 296—97.)



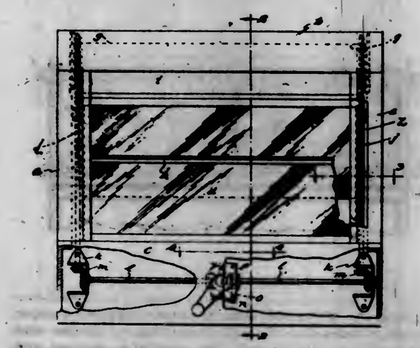
1. A device of the character described comprising upper and lower extensible elements consisting of sleeves and rods slidable in said sleeves, clips adapted to embrace and grip the side members of the frame of a windshield, said clips comprising rearwardly extending notched portions in which said rods and sleeves are received, said sleeves being headed outwardly of said rearwardly extending portions and said rods being provided with threaded portions outwardly of said rearwardly extending portions and thumb nuts upon said threaded portions, a division bar slidable upon said rods, a curtain engaged with said division bar and rings engaging said rod and said curtain.

1,392,879. PROCESS AND APPARATUS FOR COKING PITCH. FRANZ PUENING, Chicago, Ill., assignor to American Tar Products Company, Chicago, Ill., a Corporation of Delaware. Filed Jan. 12, 1918. Serial No. 211,546. 36 Claims. (Cl. 202—4.)



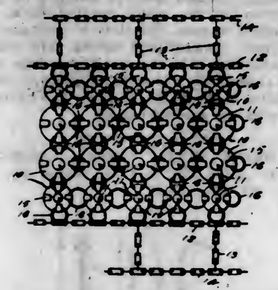
1. A process for coking pitch which consists in charging pitch into a series of receptacles, moving the receptacles successively through a progressively heated passage from the cooler to the hotter end thereof and successively discharging the receptacles of their pitch.

1,392,880. WINDSHIELD CONSTRUCTION. EMORY GLENN SIMPSON, Highland Park, Mich., assignor to Fisher Body Corporation, Detroit, Mich., a Corporation of New York. Filed Aug. 5, 1920. Serial No. 401,369. 3 Claims. (Cl. 296—89.)



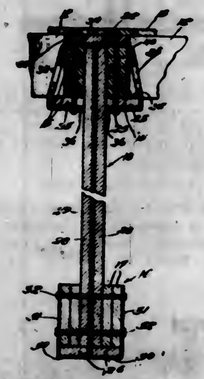
1. In a windshield, the combination of posts provided with window-ways, a header provided with a panel recess, a lower panel secured in place, and an upper panel slidable either into said panel recess to provide an opening between the panels or into overlapping relation with said lower panel to provide a ventilating opening between the upper panel and the header.

1,392,881. ANTISKID-CHAIN. JENNIE M. STARR, Montrose, S. D. Filed Feb. 14, 1920. Serial No. 358,772. 3 Claims. (Cl. 152—16.)



1. An anti-skid covering comprising disks, rings flexibly connecting said disks, said rings being arranged in circumferential and in transverse series, the rings of the circumferential series being substantially the same in size, and the rings in transverse series varying in size.

1,392,882. TRUSSED-ROOF STRUCTURE. WILLIAM J. SUMMERBELL, Chicago, Ill. Filed Nov. 21, 1919. Serial No. 339,642. 15 Claims. (Cl. 108—23.)

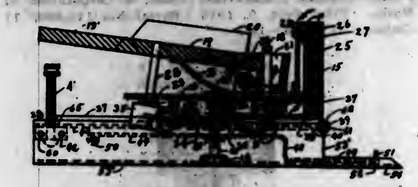


1. A roof truss comprising top and bottom chords and interconnecting compression and tension means, the top chord being upwardly curved and of built up construction and embracing at its lower side a unitary joist supporting ledge that extends longitudinally of the chord and is connected thereto to constitute a compression element of said top chord.

1,392,883. DETACHABLE KEYBOARD FOR TRANSPOSING MUSIC ON PIANOS. ISIDORE TOW, New York, N. Y. Filed Feb. 12, 1921. Serial No. 444,456. 8 Claims. (Cl. 84—446.)

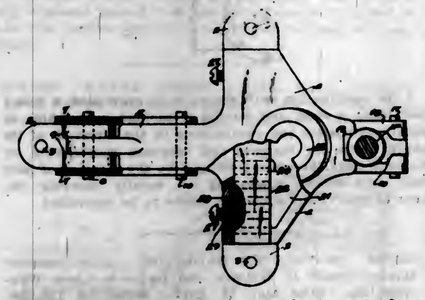
1. In a detachable keyboard for transposing music on pianos, a stationary frame adapted to extend over the keyboard of a piano, a bridge slidably connected to said frame, a set of keys on said bridge, adapted to actuate the piano keys, and a means for raising or lowering the front edge of said frame, thereby adjusting the proper angle of inclination of said frame to said piano.

2. In a detachable keyboard for transposing music on pianos, a pair of supporting members adapted to fit over the end keys of a piano, and having extensions adapted to be inserted into the openings formed in the front of the piano over said end keys, when the latter are depressed, a



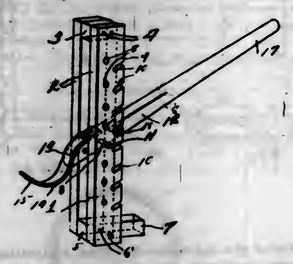
stationary frame connected at its ends to said members, a bridge slidably connected to said frame, and a set of keys on said bridge adapted to actuate the piano keys.

1,392,884. MOLDING APPARATUS FOR BATTERY STRAP-POSTS. GEORGE P. WASHBURN, Los Angeles, Calif. Filed Aug. 25, 1920. Serial No. 405,785. 6 Claims. (Cl. 22—136.)



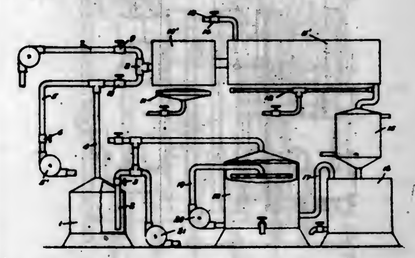
1. A molding apparatus for articles having spaced projections including a die shiftable to form said articles with different numbers of teeth.

1,392,885. LOG-JACK. PERCY E. BATTELLE, Louisa, Va. Filed June 17, 1919. Serial No. 304,770. 1 Claim. (Cl. 254—131.)



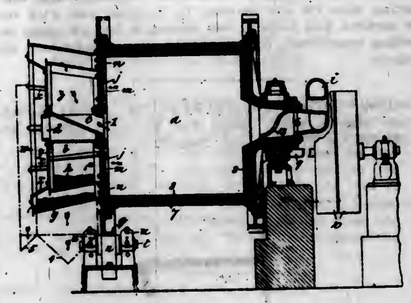
A jack of the character described comprising a standard, said standard being formed from a pair of vertically disposed spaced bars, means for holding said bars in spaced relation to each other, a series of vertically disposed apertures in each bar, the apertures in one of the bars being in alinement with the apertures of the other bar, the rear edges of the bars being provided with downwardly and inwardly extending notches, the bottoms of said notches terminating at points midway between the apertures in a horizontal plane, said apertures being in alinement with their adjacent notches in a plane at substantially 45 degrees, the notches of one vertical bar being in alinement with the notches of the other vertical bar, a lever disposed between the vertical bars and pivoted on a pin extending through alined apertures of the vertical bars and one end of the lever, a log engaging element at one end of the lever, said lever being so proportioned that when a pin is placed in the downwardly and inwardly extending notches immediately above the pivotal point of the lever, it will maintain the lever in a substantially horizontal position when its handle end is allowed to come into engagement with said pin.

1,392,886. PROCESS OF MAKING ALDEHYDES AND OTHER OXIDATION PRODUCTS. CARLISLE H. BIBB, Pasadena, Calif., assignor of one-half to John T. Bibb, Sr., Pasadena, Calif. Filed Oct. 27, 1919. Serial No. 333,633. 6 Claims. (Cl. 23—24.)



1. A process of converting hydrocarbons into alcohols aldehydes and other oxidation products, comprising mixing hydrocarbon, oxygen and a gaseous catalyser containing oxygen, said catalyser being used in quantities substantially less than the quantity of hydrocarbon, heating the mixture, and separating the alcohol aldehydes and other oxidation products from the mixture.

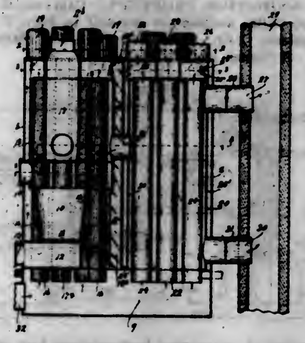
1,392,887. MACHINE FOR GRINDING ORES, MINERAL STONES, AND THE LIKE. JOSEPH RICHARD BROADLEY, London, England. Filed July 15, 1918. Serial No. 245,058. 2 Claims. (Cl. 83—9.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a grinding machine, the combination with a grinding compartment, of a separating compartment arranged at one end of and having communication with the grinding compartment, a screen arranged within the separating compartment, a tube arranged axially of the separating compartment and formed with a return passage opening through the circumference of the trunnion and delivering through the end thereof into the grinding compartment, said tube being also formed with a discharge passage opening through the circumference of the trunnion and delivering through the end thereof remote from the grind-

ing compartment, means arranged within the screen to pick up the material not delivered through the screen and directed into the return passage of the tube, and means arranged exteriorly of the screen to receive the material delivered through the screen and directed into the discharge passage of the tube.

1,392,888. HOT-AIR FURNACE. DEWITT A. BRUNETT, Minneapolis, Minn. Filed Feb. 16, 1920. Serial No. 358,813. 5 Claims. (Cl. 126—109.)



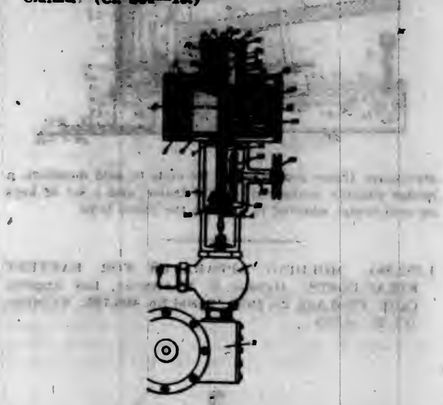
1. In a hot air furnace, the combination with an outer primary casing and a secondary outer casing, said two casings having a common base air chamber, of primary and secondary drums respectively within said primary and secondary casings spaced therefrom at the sides, top and bottom, and affording, respectively, primary and secondary combustion chambers, the said two combustion chambers being connected for the passage of hot gases from the former to the latter, primary and secondary air pockets formed respectively over the tops of said primary and secondary combustion chambers, primary and secondary hot air tubes extending respectively through said primary and secondary combustion chambers and connecting with the air chamber in the base and with the air pockets, and primary and secondary hot air pipes extending respectively from said primary and secondary air pockets.

1,392,889. AUTOMOBILE-SURFACING. HENRY B. DAY, Los Angeles, Calif. Filed Apr. 21, 1919. Serial No. 291,740. 4 Claims. (Cl. 296—31.)



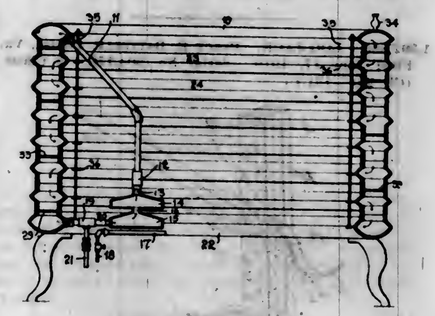
1. A composite automobile body, comprising a metal base; and an exterior covering of normally flexible material fitted and cemented to said metal base over substantially the entire contacting area, to form, when in position, a rigid, protective outer layer impervious to moisture and capable of taking finishing color coats.

1,392,890. CENTRIFUGAL REGULATING DEVICE. WARREN M. FULTON, Knoxville, Tenn., assignor to The Fulton Company, Knoxville, Tenn., a Corporation of Maine. Filed Sept. 5, 1916. Serial No. 118,539. 17 Claims. (Cl. 284—18.)



1. In combination with means to be controlled, a vessel containing a fluid and having a tubular wall which is axially extensible and contractible in the direction of its length under the increase and decrease, respectively, of the centrifugal pressure developed by the rotation of said fluid, and means connecting an axially movable element of said vessel with said means to be controlled.

1,392,891. HOT-WATER RADIATOR. JOHN NEWTON HARDY, HARRY D. WILSON, and DAVID S. LONG, Waycross, Ga. Filed Mar. 31, 1917. Serial No. 158,926. 1 Claim. (Cl. 257—152.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



A radiator of the character described comprising a plurality of coils, including an uppermost coil, a lowermost coil and a plurality of intermediate coils each having parallel longitudinally extending portions and transversely extending end portions, the intermediate coils each being formed at opposite ends with upwardly and downwardly projecting necks, the neck of one coil fitting into the neck of an adjacent coil, the topmost coil being formed with downwardly projecting necks and the lowermost coil being formed with upwardly projecting necks, the coils having septums disposed across said necks at alternate ends of the coils, to thereby cause the circulation of water entirely through one coil before passing into an adjacent coil.

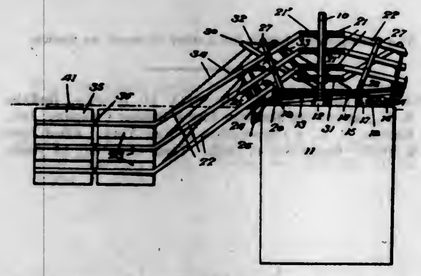
1,392,892. TANK OR RECEPTACLE FOR COMBUSTIBLE OR OTHER LIQUIDS. JACK IMRIE, London, England. Filed Dec. 18, 1918. Serial No. 267,359. 10 Claims. (Cl. 220—88.)



1. A tank for holding combustible liquids comprising a plurality of peripheral members, shaped in correspondence with and adapted to fit in the tank, brace members holding the peripheral members in spaced relation, and angularly related partitions carried by the peripheral members and brace members and formed with openings, and an inclosing shell bearing upon said peripheral members.

10. The combination with a container, of an interior reinforcement therefor comprising vertically and horizontally disposed spaced rods and splash plates attached to said rods and a protective covering enveloping the container.

1,392,893. WATER-WHEEL. JOHN KING, Williams Lake, British Columbia, Canada. Filed Aug. 30, 1920. Serial No. 406,810. 8 Claims. (Cl. 170—113.)



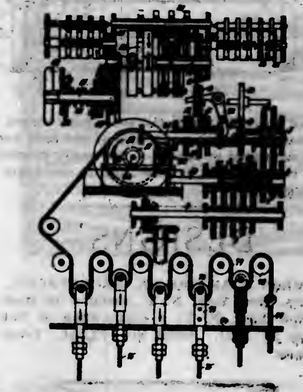
1. A water wheel comprising a substantially vertical shaft, vertically-spaced sets of blades in different vertical planes, means connecting said blades with the shaft for vertical movement, and means for raising said blades out of the water through part of their movement around said shaft.

1,392,894. PUNCTURE-PROOF INNER TUBE. ROBERT R. LLOYD, Des Moines, Iowa, assignor of one-half to John Griffin, Des Moines, Iowa. Filed Aug. 19, 1920. Serial No. 404,556. 1 Claim. (Cl. 152—13.)



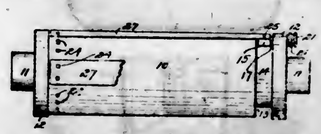
An inner tube adapted to be used in combination with a tire casing comprising a plurality of layers of rubber each of different degrees of elasticity, the outer layer being of less elasticity than the inner layer, the intermediate layer being of pure Pará rubber and having greater elasticity than either the outer or inner layers, said outer layer being comparatively thick in order to form the main body and strain resisting portion of the tube, the inner layer being comparatively thin in order to serve merely as a protective covering for the intermediate layer, whereby the sides of the tire will not stick together upon contact with said side, and whereby the intermediate layer will not crack, said intermediate layer being of such consistency that it will be forced by the pressure into any puncture in the outer layer.

1,392,895. TAXIMETER. HERMANN KARL EMIL LÜBCKE, Lübeck, Germany. Filed Feb. 12, 1921. Serial No. 444,532. 6 Claims. (Cl. 235—30.)



1. In a taximeter, a rope drum, an indicator disk, a pusher, and means operable by the weight upon a seat for turning said drum through an angle corresponding to the number of seats loaded, and the said pusher moved to actuating position relative to said indicator.

1,392,896. PRINTING-PLATE HOLDER. ERVIN E. STRAWN, Des Moines, Iowa, assignor to The Omnigraph Company, Des Moines, Iowa, a Corporation. Filed Jan. 31, 1921. Serial No. 441,407. 5 Claims. (Cl. 272.)



1. A printing plate holder including a printing plate and a printing roller having an annular groove in its surface, means for fastening one end of a printing plate to said printing roller, a slidable member mounted in said grove having means for engaging the fre end of the printing plate, a bolt rotatably mounted in the end of said roller projecting into said groove, having a screw-threaded connection with said member, whereby when the parts are assembled the bolt may be rotated to draw the plate taut on the roller.

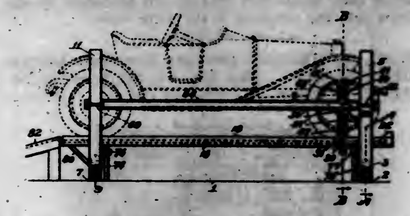
1,392,897. [WITHDRAWN.]

REISSUES.

15,203. ADJUSTABLE AUTOMOBILE-HOLDER. LEMUEL CLAY NICOSON, Alexandria, Ind., assignor to American Trust Company, trustee, New York, N. Y. Filed Dec. 13, 1920. Serial No. 430,575. Original No. 1,288,138, dated Dec. 17, 1918, Serial No. 93,230, filed Apr. 24, 1916. 17 Claims. (Cl. 214—1.)

1. A motor-vehicle holder including a plurality of rocker members, a plurality of girders secured to the rocker

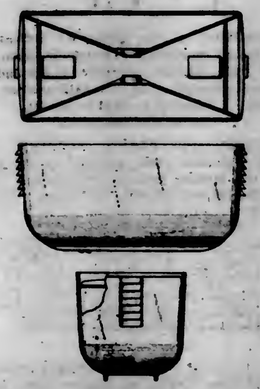
members respectively, two track rails secured upon the girders to support the wheels of the motor-vehicle, means for bodily supporting the body of the motor-vehicle in the absence of a pair of the wheels and above and inde-



pendently of the track rails, the supporting means including a beam to engage the under side of the body and being removably supported by means of the rocker members, and means for clamping the vehicle body to the beam of the supporting means.

DESIGNS.

59,171. MEAT-LOAF-COOKER RECEPTACLE. HANS ADELMANN, New York, N. Y., assignor to Ham Boiler Corp., New York, N. Y., a Corporation of New York. Filed May 24, 1921. Serial No. 472,264. Term of patent 7 years.



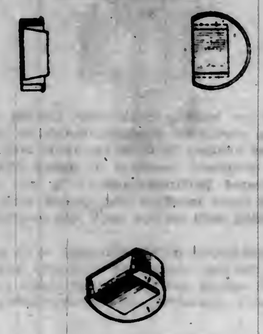
The ornamental design for a meat loaf cooker receptacle, substantially as shown.

59,172. GRAVE-COVER. LEE ANDERSON, Fostoria, Ohio. Filed Oct. 16, 1920. Serial No. 417,527. Term of patent 7 years.



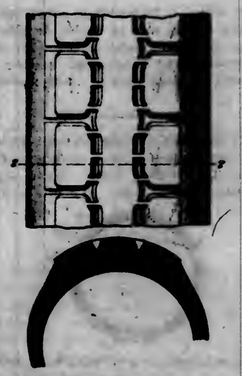
The ornamental design for a grave cover, as shown.

59,173. DOOR-BUMPER. SETH B. ATWOOD, Rockford, Ill. Filed Oct. 29, 1920. Serial No. 420,574. Term of patent 7 years.



The ornamental design for a door bumper, as shown.

59,174. TIRE-CASING. RUSSELL D. BELDEN, Buffalo, N. Y., assignor to Madison Tire & Rubber Company, Inc., Buffalo, N. Y., a Corporation of New York. Filed June 6, 1921. Serial No. 475,442. Term of patent 14 years.



The ornamental design for a tire casing, as shown.

59,175. PAPER DOLL. FLORA BENSON, Angleton, Tex. Filed June 30, 1920. Serial No. 393,185. Term of patent 14 years.



The ornamental design for a paper-doll, as shown.

59,176. PAPER DOLL. FLORA BENSON, Angleton, Tex. Filed June 30, 1920. Serial No. 393,186. Term of patent 14 years.



The ornamental design for a paper-doll, as shown.

59,177. TEXTILE FABRIC OR SIMILAR ARTICLE. LUCIEN BIVA, White Plains, N. Y., assignor to Titus Blatter & Company, New York, N. Y., a Corporation of New York. Filed June 16, 1921. Serial No. 478,180. Term of patent 7 years.



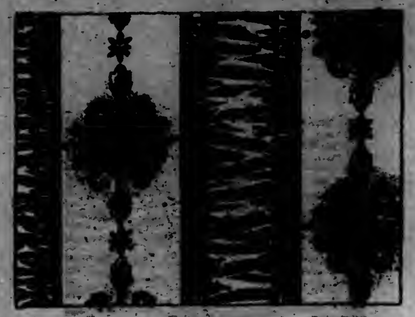
The ornamental design for textile fabrics or similar articles substantially as shown.

59,178. TEXTILE FABRIC OR SIMILAR ARTICLE. LUCIEN BIVA, White Plains, N. Y., assignor to Titus Blatter & Company, New York, N. Y., a Corporation of New York. Filed June 16, 1921. Serial No. 478,181. Term of patent 7 years.



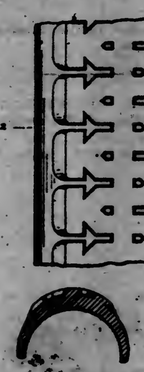
The ornamental design for textile fabrics or similar articles substantially as shown.

59,179. TEXTILE FABRIC OR SIMILAR ARTICLE. Lucien Bing, White Plains, N. Y., assignor to Titus Blatter & Company, New York, N. Y., a Corporation of New York. Filed June 16, 1921. Serial No. 478,162. Term of patent 7 years.



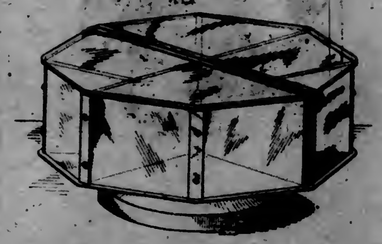
The ornamental design for textile fabrics or similar articles substantially as shown.

59,180. TIRE-TREAD. Arthur L. Breitenstein, Akron, Ohio, assignor to The Giant Tire & Rubber Company, Findlay, Ohio, a Corporation of Ohio. Filed Mar. 29, 1921. Serial No. 456,631. Term of patent 7 years.



The ornamental design for a tire tread substantially as shown.

59,181. GUM AND MINT CASE. Lloyd W. Buchenau, Stockton, Calif. Filed Aug. 10, 1920. Serial No. 402,706. Term of patent 14 years.



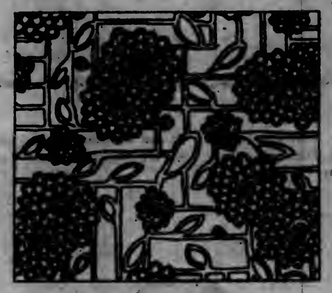
The ornamental design for a gum and mint case, as shown.

59,182. MOVELTY MITTEN. Charles G. Bujarski, Anderson, Ind. Filed July 30, 1920. Serial No. 400,247. Term of patent 14 years.



The ornamental design for a novelty mitten, as shown.

59,183. TEXTILE FABRIC. James H. Bunting, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed May 28, 1921. Serial No. 473,401. Term of patent 3½ years.



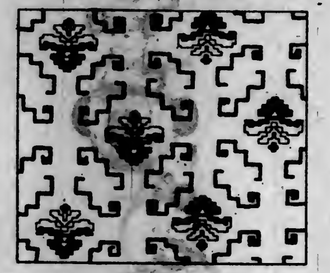
The ornamental design for a textile fabric, as shown.

59,184. TEXTILE FABRIC. James H. Bunting, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed May 28, 1921. Serial No. 473,402. Term of patent 3½ years.



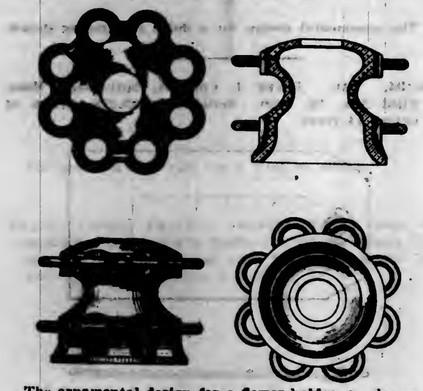
The ornamental design for a textile fabric, as shown.

59,185. TEXTILE FABRIC. James H. Bunting, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed May 28, 1921. Serial No. 473,403. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

59,186. FLOWER-HOLDER. Frederic Carder, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York. Filed Apr. 9, 1921. Serial No. 460,079. Term of patent 14 years.



The ornamental design for a flower holder, as shown.

59,187. BOTTLE-STOPPER. John P. Casey, Jeannette, Pa. Filed Aug. 21, 1919. Serial No. 319,032. Term of patent 14 years.



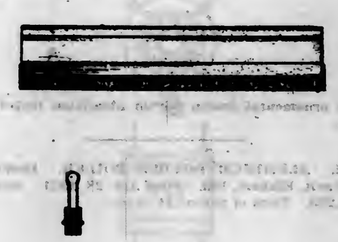
The ornamental design for a bottle stopper, as shown.

59,188. FINGER-RING. Jass L. Chambers, Kansas City, Mo., assignor to Adelson-Chambers Jewelry Company. Filed July 16, 1921. Serial No. 485,294. Term of patent 7 years.



The ornamental design for a finger ring, as shown.

59,189. GLASS-WIPER. Victor H. Christen, Toledo, Ohio. Filed Dec. 16, 1919. Serial No. 345,146. Term of patent 14 years.



The ornamental design for a glass wiper as shown.

59,190. ALUMINUM TEAKETTLE. Howard A. Church, Elkhart, Ind. Filed Apr. 11, 1921. Serial No. 460,492. Term of patent 14 years.



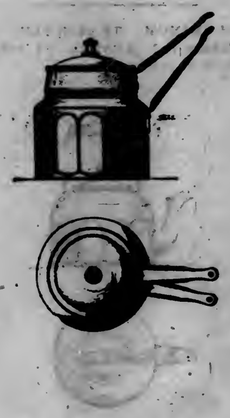
The ornamental design for an aluminum teakettle, as shown.

59,191. ALUMINUM TEAKETTLE. HOWARD A. CHURCH, Elkhart, Ind. Filed Apr. 27, 1921. Serial No. 464,905. Term of patent 7 years.



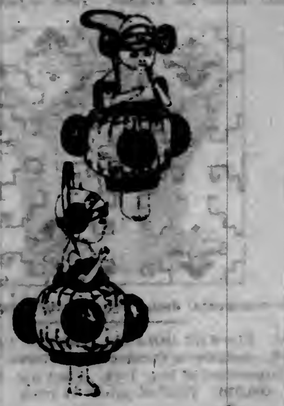
The ornamental design for an aluminum teakettle, as shown.

59,192. ALUMINUM DOUBLE BOILER. HOWARD A. CHURCH, Elkhart, Ind. Filed Apr. 28, 1921. Serial No. 465,223. Term of patent 14 years.



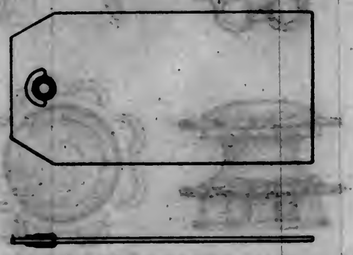
The ornamental design for an aluminum double boiler, as shown.

59,193. DOLL'S COSTUME. EDWIN R. CLARK and LEO R. NEUMA, Joliet, Ill. Filed Apr. 11, 1921. Serial No. 460,498. Term of patent 7 years.



The ornamental design for a doll's costume, as shown.

59,194. TAG. JAMES J. COLLINS, Springfield, Mass. Filed Nov. 19, 1920. Serial No. 425,278. Term of patent 14 years.



The ornamental design for a tag, as shown.

59,195. RING. VICTOR H. COHN, New York, N. Y. Filed Mar. 5, 1921. Serial No. 450,107. Term of patent 7 years.



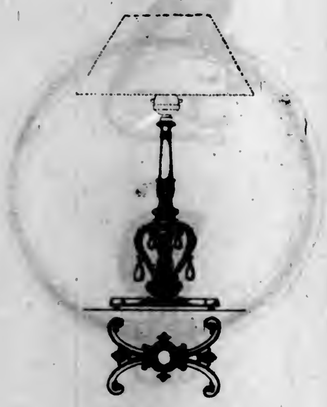
The ornamental design for a ring, as shown.

59,196. RING. VICTOR H. COHN, New York, N. Y. Filed Apr. 26, 1921. Serial No. 464,706. Term of patent 7 years.



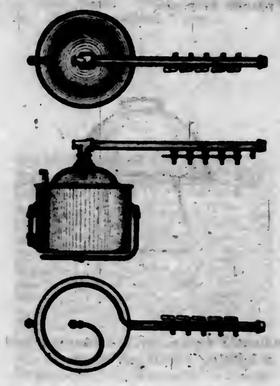
The ornamental design for a ring, as shown.

59,197. LAMP. FRANK S. CROWELL, Toledo, Ohio, assignor to The Edward N. Riddle Co., Toledo, Ohio, a Corporation of Ohio. Filed Jan. 12, 1921. Serial No. 436,841. Term of patent 7 years.



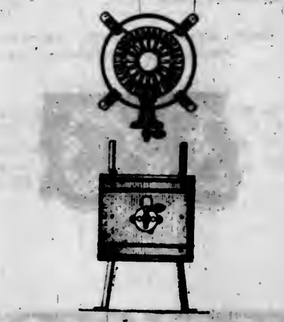
The ornamental design for a lamp, as shown.

59,198. STEAMER. HARRY DALITZ, Cleveland, Ohio, assignor to J. C. Hipp, Cleveland, Ohio. Filed May 16, 1921. Serial No. 470,016. Term of patent 14 years.



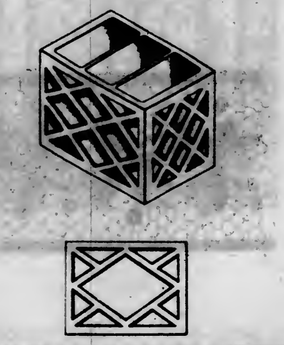
The ornamental design for a steamer, as shown.

59,199. GAS-HEATER. HARRY DALITZ, Cleveland, Ohio, assignor to J. C. Hipp, Cleveland, Ohio. Filed May 16, 1921. Serial No. 470,017. Term of patent 14 years.



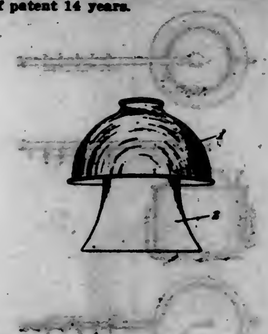
The ornamental design for a gas heater, as shown.

59,200. BATTERY-CASE. EDWARD DAVIS and WALTER E. HOLLAND, Philadelphia, Pa., assignors to Philadelphia Storage Battery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 31, 1921. Serial No. 473,918. Term of patent 14 years.



The ornamental design for a battery case, as shown.

59,201. SHADE, REFLECTOR, OR SIMILAR ARTICLE FOR A LIGHTING FIXTURE. JOHN DOTEN, New York, N. Y. Filed Feb. 5, 1921. Serial No. 442,838. Term of patent 14 years.



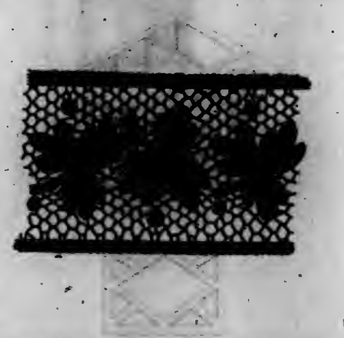
The ornamental design for a shade, reflector or similar article for a lighting fixture, as shown.

59,202. LACE. WALTER DEATCOTT, Alton, R. I., assignor to Richmond Lace Works, Alton, R. I., a Corporation of Maine. Filed Feb. 16, 1921. Serial No. 445,559. Term of patent 3½ years.



The ornamental design for lace, as shown.

59,203. LACE. WALTER DEATCOTT, Alton, R. I., assignor to Richmond Lace Works, Alton, R. I., a Corporation of Maine. Filed Apr. 12, 1921. Serial No. 460,818. Term of patent 3½ years.



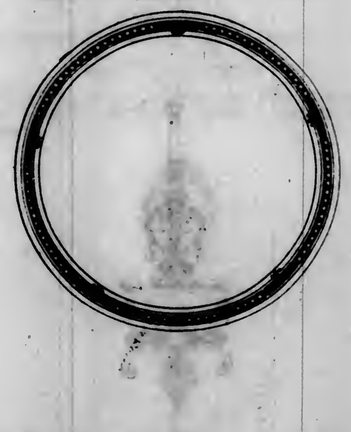
The ornamental design for lace, as shown.

59,204. COMBINED FISHING POLE AND REEL. MILTON S. DUNKELBERGER, Dayton, Ohio. Filed Apr. 28, 1921. Serial No. 465,224. Term of patent 14 years.



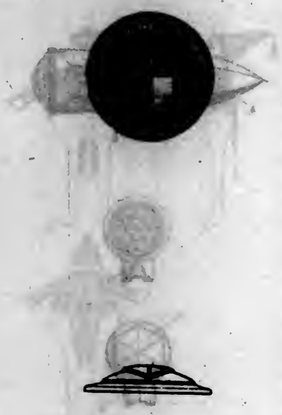
The ornamental design for a combined fishing-pole and reel, as shown.

59,205. PLATE AND SIMILAR ARTICLE. MARTIN M. EISENHARDT, New York, N. Y., assignor to L. Barth & Son, a Partnership composed of Leopold Barth and Harry Barth. Filed July 12, 1919. Serial No. 310,468. Term of patent 14 years.



The ornamental design for a plate or similar article, as shown.

59,206. BUTTON. GEORGE H. FRAGARI, Los Angeles, Calif. Filed Nov. 1, 1920. Serial No. 421,178. Term of patent 14 years.



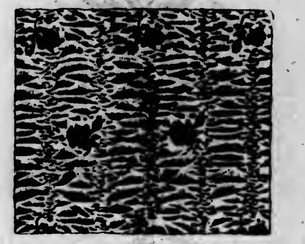
The ornamental design for a button as shown.

59,207. STATUETTE. MARJORIE PHYLLYS DYRENFORTH FORTUNE, Los Angeles, Calif. Filed Sept. 23, 1920. Serial No. 412,894. Term of patent 3½ years.



The ornamental design for a statuette as shown.

59,208. TEXTILE FABRIC OR ARTICLE OF SIMILAR NATURE. ALFRED FRATI, New York, N. Y., assignor to Titus Blatter & Company, New York, N. Y., a Corporation of New York. Filed June 16, 1921. Serial No. 478,178. Term of patent 7 years.



The ornamental design for textile fabric or article of similar nature substantially as shown.

59,209. TEXTILE FABRIC OR ARTICLE OF SIMILAR NATURE. ALFRED FRATI, New York, N. Y., assignor to Titus Blatter & Company, New York, N. Y., a Corporation of New York. Filed June 16, 1921. Serial No. 478,179. Term of patent 7 years.



The ornamental design for textile fabric or article of similar nature substantially as shown.

59,210. DOLL. Penelope Fyfe, Denver, Colo. Filed Mar. 22, 1921. Serial No. 454,401. Term of patent 7 years.



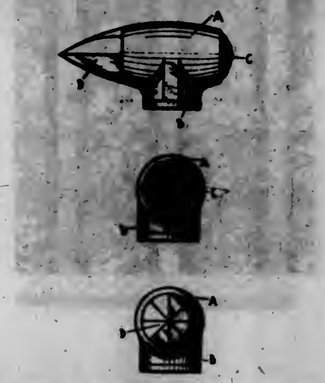
The ornamental design for a doll, as shown.

59,211. CHARM OR PENDANT. Morris L. Goldstein, Providence, R. I. Filed Feb. 4, 1921. Serial No. 442,553. Term of patent 14 years.



The ornamental design for a charm or pendant, as shown.

59,212. COWL-LIGHT FOR AUTOMOBILES, &c. Angus R. Gross, Baltimore, Md. Filed Feb. 18, 1921. Serial No. 446,171. Term of patent 14 years.



The ornamental design for a cowl light for automobiles, &c., substantially as shown and described.

59,213. COWL-LIGHT FOR AUTOMOBILES, &c. Angus R. Gross, Baltimore, Md. Filed Feb. 18, 1921. Serial No. 446,172. Term of patent 14 years.



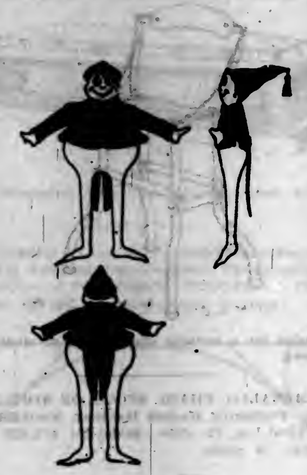
The ornamental design for a cowl light for automobiles, &c., substantially as shown and described.

59,214. ELECTRIC FAN AND HEATING DEVICE. George Graff, New York, N. Y., and William A. Kennedy, Leonia, N. J., assignors to Graff, Washbourne & Dunn, a Corporation of New York. Filed June 1, 1921. Serial No. 474,275. Term of patent 14 years.



The ornamental design for an electric fan and heating device as shown and described.

59,215. BROWNIE DOLL. Fred C. Hamill, Los Angeles, Calif. Filed Dec. 22, 1920. Serial No. 432,627. Term of patent 14 years.



The ornamental design for a brownie doll, as shown.

59,216. ELECTRICAL RECEPTACLE FOR CEILING BOXES. Povl Hartmann, Brooklyn, N. Y., assignor to Charles L. Hillits Co., New York, N. Y., a Corporation of New York. Filed May 4, 1921. Serial No. 466,700. Term of patent 14 years.



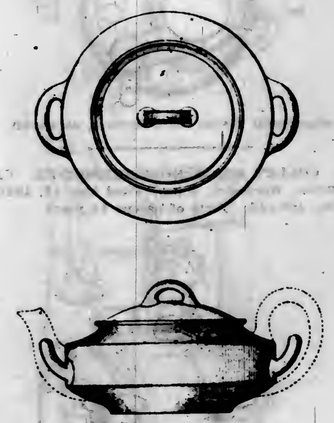
The ornamental design for an electrical receptacle for ceiling boxes, as shown and described.

59,217. DISH OR SIMILAR ARTICLE. George Haviland, Limoges, France. Filed May 16, 1921. Serial No. 470,021. Term of patent 14 years.



The ornamental design for a dish or similar article, as shown.

59,218. BOWL OR SIMILAR ARTICLE. George Haviland, Limoges, France. Filed May 16, 1921. Serial No. 470,022. Term of patent 14 years.



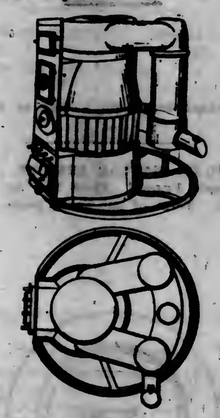
The ornamental design for a bowl or similar article, as shown.

59,219. CUP OR SIMILAR ARTICLE. Charles Haviland, Limoges, France. Filed May 23, 1921. Serial No. 471,980. Term of patent 14 years.



The ornamental design for a cup or similar article, as shown.

59,220. FURNACE. William J. Haynes, Jr., Kansas City, Mo. Filed July 29, 1920. Serial No. 399,906. Term of patent 14 years.



The ornamental design for a furnace, as shown.

59,221. COLLET FOR A HOSE-SUPPORTER. Carl J. Hazelton, Worcester, Mass. Filed May 11, 1921. Serial No. 468,743. Term of patent 14 years.



The ornamental design for a collet for a hose-supporter, as shown.

59,222. METALLIC CHAIR, STOOL, OR SIMILAR ARTICLE. Frederick Hagger Headley, Northfield, England. Filed Dec. 22, 1920. Serial No. 432,632. Term of patent 14 years.



The design for a metallic chair, stool, or similar article as shown.

59,223. METALLIC CHAIR, STOOL, OR SIMILAR ARTICLE. Frederick Hagger Headley, Northfield, England. Filed Dec. 22, 1920. Serial No. 432,633. Term of patent 14 years.



The design for a metallic chair, stool, or similar article as shown.

59,224. FLOWER-VASE. Louis H. Hirsch, New York, N. Y. Filed Nov. 20, 1920. Serial No. 425,573. Term of patent 3½ years.



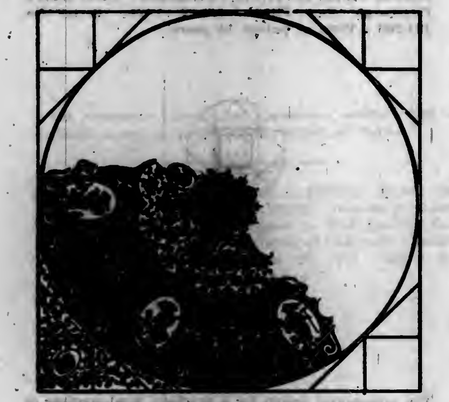
The ornamental design for a flower vase, as shown.

59,225. BURIAL-CASKET. Frederick E. Hollins, Winchester, Mass., assignor to Boston Burial Case Co., West Somerville, Mass., a Copartnership composed of George Heintz and Frederick E. Hollins. Filed Nov. 6, 1920. Serial No. 422,403. Term of patent 14 years.



The ornamental design for a burial casket, as shown.

59,226. LACE. George Holt, Philadelphia, Pa., assignor to North American Lace Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 8, 1921. Serial No. 476,102. Term of patent 3½ years.



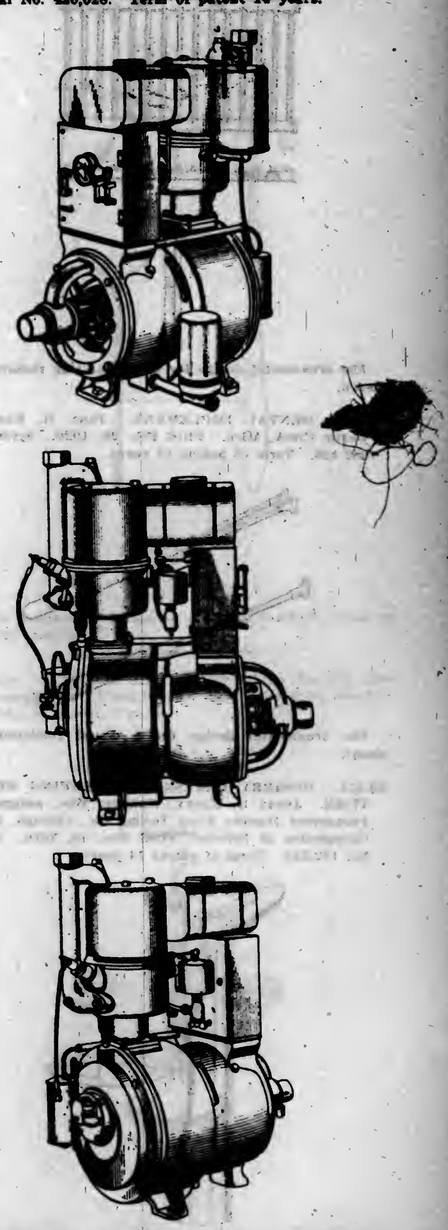
The ornamental design for lace, substantially as shown.

59,227. DOILY. Eugene Holser, Milwaukee, Wis., assignor to Milwaukee Lace Paper Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 30, 1921. Serial No. 457,062. Term of patent 14 years.



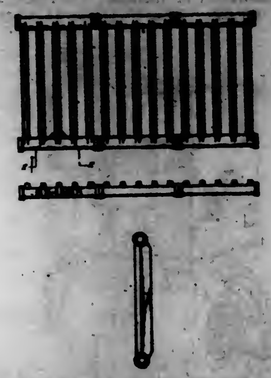
The ornamental design for a doily, as shown.

59,228. POWER PLANT. Lee B. Jones, Earl W. Jones, and Robert G. Battin, Evansville, Ind., assignors to Sunbeam Electric Manufacturing Company, Evansville, Ind., a Corporation of Indiana. Filed Oct. 27, 1920. Serial No. 420,026. Term of patent 14 years.



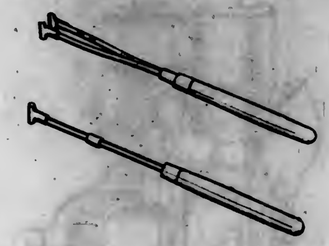
The ornamental design for a power plant, as shown.

59,229. REFRIGERATING-RADIATOR. August Kuehn, Chicago, Ill. Filed Jan. 26, 1919. Serial No. 273,162. Term of patent 3½ years.



The ornamental design for a refrigerating radiator, as shown.

59,230. DENTAL IMPLEMENT. John H. Kellogg, Battle Creek, Mich. Filed Feb. 28, 1920. Serial No. 362,126. Term of patent 14 years.



The ornamental design for a dental implement as shown.

59,231. HOSIERY DRYING AND SHAPING STRUCTURE. Jerry H. Kelly, Waupun, Wis., assignor to Paramount Hosiery Form Drying Co., Chicago, Ill., a Corporation of Illinois. Filed Nov. 18, 1916. Serial No. 132,221. Term of patent 14 years.



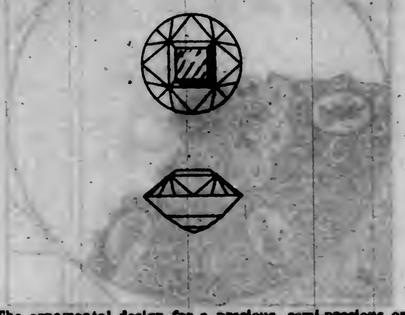
The ornamental design for a hosiery drying and shaping structure, as shown.

59,232. MILK-STRAINER. Floy D. Kincaid, Long Creek, Oreg. Filed July 22, 1920. Serial No. 398,827. Term of patent 14 years.



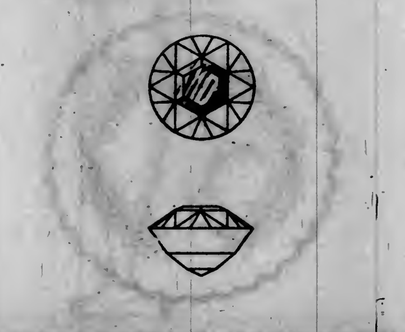
The ornamental design for a milk strainer as shown.

59,233. PRECIOUS, SEMIPRECIOUS OR SYNTHETIC STONE, OR AN IMITATION THEREOF. John Kraus, Pittsburgh, Pa. Filed July 12, 1921. Serial No. 484,203. Term of patent 14 years.



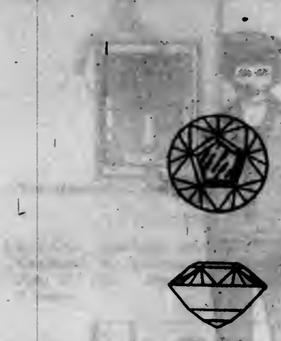
The ornamental design for a precious, semi-precious or synthetic stone, or an imitation thereof, as shown.

59,234. PRECIOUS, SEMIPRECIOUS OR SYNTHETIC STONE, OR AN IMITATION THEREOF. John Kraus, Pittsburgh, Pa. Filed July 12, 1921. Serial No. 484,204. Term of patent 14 years.



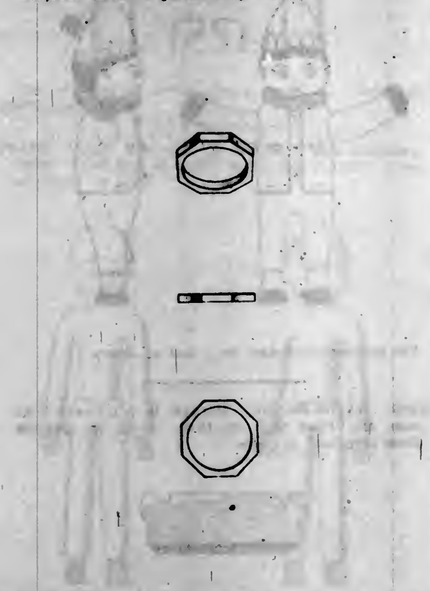
The ornamental design for a precious, semiprecious or synthetic stone, or an imitation thereof as shown.

59,235. PRECIOUS, SEMIPRECIOUS OR SYNTHETIC STONE, OR AN IMITATION THEREOF. John Kraus, Pittsburgh, Pa. Filed July 12, 1921. Serial No. 484,205. Term of patent 14 years.



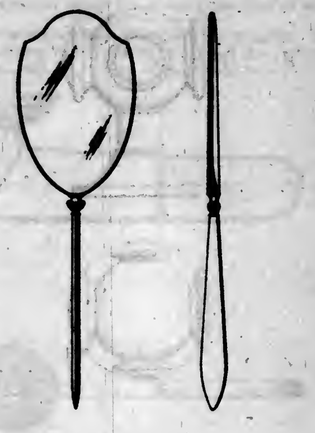
The ornamental design for a precious, semiprecious or synthetic stone, or an imitation thereof, as shown.

59,236. JEWELRY—NAMELY, A FINGER RING, OR ARTICLE OF SIMILAR NATURE. Isidore H. Lapidus, New York, N. Y., assignor to Elco Jewelry Co., New York, N. Y., a Firm consisting of Isidore H. Lapidus and Lazar Selber. Filed Jan. 20, 1921. Serial No. 438,754. Term of patent 14 years.



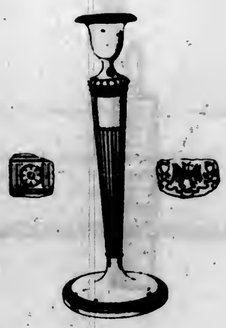
The ornamental design for jewelry, namely, a finger ring or article of similar nature as shown.

59,237. BACK OF A MIRROR, BRUSH, OR SIMILAR ARTICLE. Frank H. La Pierre, East Orange, N. J. Filed Feb. 18, 1921. Serial No. 446,187. Term of patent 14 years.



The ornamental design for a back of a mirror, brush or similar article.

59,238. CANDLESTICK. Frank H. La Pierre, East Orange, N. J. Filed Feb. 18, 1921. Serial No. 446,188. Term of patent 7 years.



The ornamental design for a candlestick as shown.

59,239. AUTOMOBILE PARKING-LIGHT. WILLIAM LEUCHERT, Astoria, N. Y. Filed Mar. 21, 1921. Serial No. 454,296. Term of patent 7 years.



The ornamental design for an automobile parking light as shown.

59,240. CHARM. NATHAN LIEBERFREUND, Passaic, N. J., assignor to Lieberfreund Brothers, New York, N. Y., a Partnership composed of Nathan Lieberfreund and Henry Lieberfreund. Filed Apr. 7, 1921. Serial No. 459,481. Term of patent 7 years.



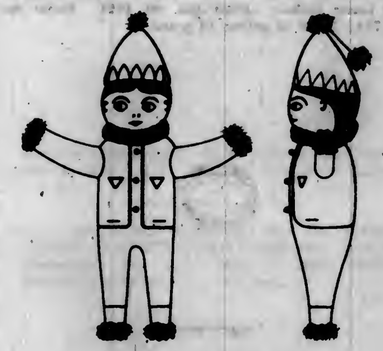
The ornamental design for a charm as shown.

59,241. CALENDAR-MOUNT. EDWIN R. LOOS, New York, N. Y., assignor to The Blue Jacket Tailoring Company, New York, N. Y. Filed Feb. 12, 1920. Serial No. 358,151. Term of patent 3½ years.



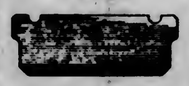
The ornamental design for a calendar mount, as shown.

59,242. DOLL. MARGARET MACDONALD, Davenport, Iowa. Filed May 28, 1921. Serial No. 471,986. Term of patent 14 years.



The ornamental design for a doll as shown.

59,243. RAZOR-BLADE. HECTOR P. MACLAGAN, Chicago, Ill. Filed Mar. 28, 1919. Serial No. 285,938. Term of patent 3½ years.



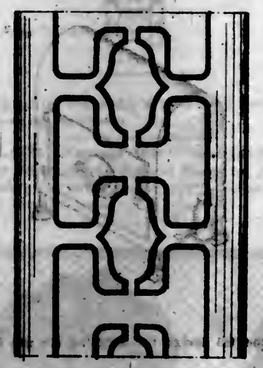
The ornamental design for a razor blade as shown and described.

59,244. WATCH-FOB. JOHN J. MCAVOY, Seattle, Wash. Filed Jan. 20, 1920. Serial No. 355,190. Term of patent 3½ years.



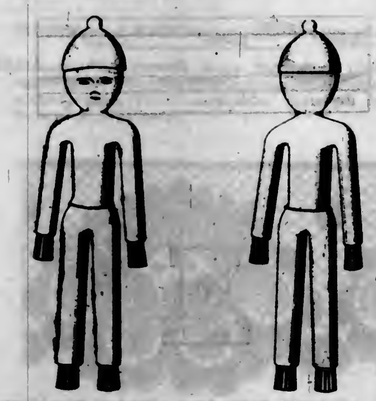
The ornamental design for a watch fob, as shown.

59,245. TREAD FOR AUTOMOBILE-CASINGS. CLARENCE E. MCCORMICK, Youngstown, Ohio. Filed Feb. 21, 1921. Serial No. 446,965. Term of patent 7 years.



The ornamental design for a tread for automobile casings, as shown.

59,246. DOLL. CHARLES T. MCHENRY, San Francisco, Calif. Filed Mar. 9, 1921. Serial No. 450,979. Term of patent 14 years.



The ornamental design for a doll, as shown.

59,247. WATCHCASE-BOW. JEREMIAH MCGREEVY, Brooklyn, N. Y., assignor to Solidarity Watch Case Company, Brooklyn, N. Y., a Corporation of New York. Filed June 15, 1920. Serial No. 389,240. Term of patent 14 years.



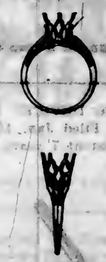
The ornamental design for a watchcase bow, as shown.

59,248. VEGETABLE SCRAPER AND PARER. JOHN MCNAUGHTON, New York, N. Y. Filed Apr. 29, 1921. Serial No. 465,551. Term of patent 3½ years.



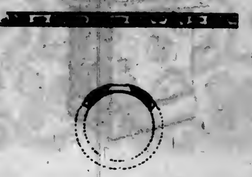
The ornamental design for a vegetable scraper and parer, as shown.

59,249. RING OR SIMILAR ARTICLE. JOSHUA W. MAYER, New York, N. Y. Filed Mar. 30, 1921. Serial No. 457,056. Term of patent 7 years.



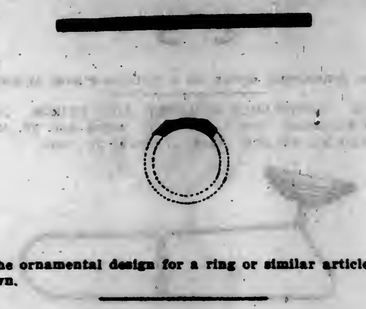
The ornamental design for a ring or similar article, as shown.

59,250. RING OR SIMILAR ARTICLE. JOSHUA W. MAYER, New York, N. Y. Filed Apr. 14, 1921. Serial No. 461,425. Term of patent 7 years.



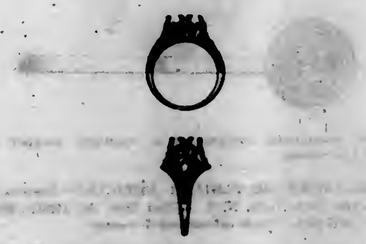
The ornamental design for a ring or similar article, as shown.

59,251. RING OR SIMILAR ARTICLE. JOSHUA W. MAYER, New York, N. Y. Filed Apr. 14, 1921. Serial No. 461,426. Term of patent 7 years.



The ornamental design for a ring or similar article, as shown.

59,252. RING OR SIMILAR ARTICLE. JOSHUA W. MAYER, New York, N. Y. Filed May 18, 1921. Serial No. 470,617. Term of patent 7 years.



The ornamental design for a ring or similar article, as shown.

59,253. ADVERTISING DEVICE. FREDERIC MERRIMAN, Mill Valley, Calif. Filed Jan. 10, 1921. Serial No. 436,375. Term of patent 7 years.



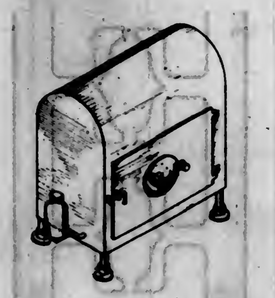
The ornamental design for an advertising device, as shown and described.

59,254. BADGE, PIN, EMBLEM, OR SIMILAR ARTICLE. ARTHUR M. MILLARD, Chicago, Ill., assignor to Central Council, Order of The Builders for Boys, Chicago, Ill., a Corporation of Illinois. Filed Apr. 26, 1921. Serial No. 465,226. Term of patent 14 years.



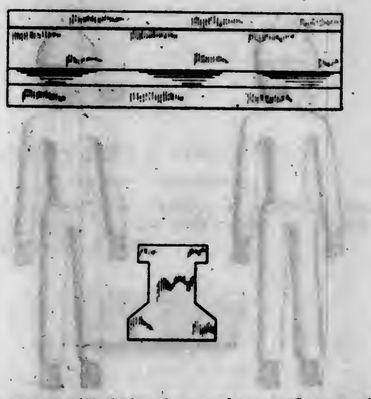
The ornamental design for a badge, pin, emblem, or the like, as shown.

59,255. CASING FOR GAS-HEATERS. JOSEPH MITERA, Plainfield, N. J. Filed Mar. 23, 1920. Serial No. 368,103. Term of patent 7 years.



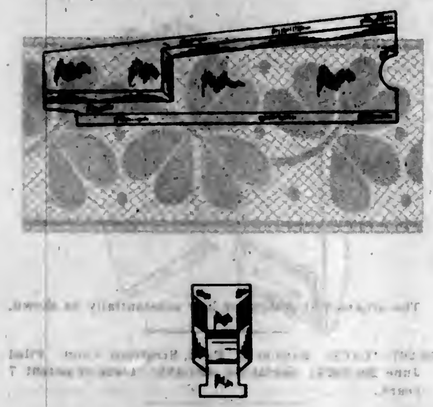
The ornamental design for a casing for gas heaters, as shown.

59,256. REFRACTORY FLOOR MEMBER FOR ELECTRIC FURNACES. FREDERICK W. MOFFAT, Weston, Ontario, Canada. Filed Apr. 8, 1921. Serial No. 459,750. Term of patent 14 years.



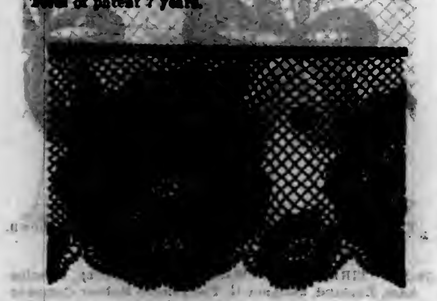
The ornamental design for a refractory floor member for electric furnaces.

59,257. REFRACTORY ROOF MEMBER FOR ELECTRIC FURNACES. FREDERICK W. MOFFAT, Weston, Ontario, Canada. Filed Apr. 8, 1921. Serial No. 459,751. Term of patent 14 years.



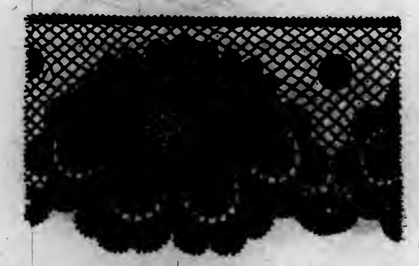
The ornamental design for a refractory roof member for electric furnaces, as shown.

59,258. LACE. THOMAS MONK, Bridgeport, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed June 4, 1921. Serial No. 475,105. Term of patent 7 years.



The ornamental design for lace, substantially as shown.

59,259. LACE. THOMAS MONK, Bridgeport, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed June 4, 1921. Serial No. 475,106. Term of patent 7 years.



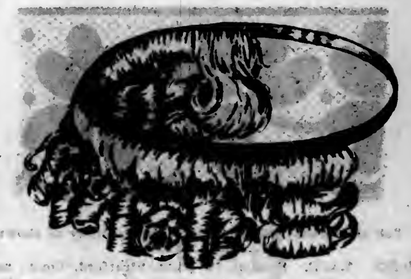
The ornamental design for lace, substantially as shown.

59,260. LACE. THOMAS MONK, Bridgeport, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed June 4, 1921. Serial No. 475,107. Term of patent 7 years.



The ornamental design for lace, substantially as shown.

59,261. HAIR FRINGE. MAX MULLER, New York, N. Y. Filed Oct. 4, 1919. Serial No. 328,594. Term of patent 7 years.



The ornamental design for a hair fringe as shown.

59,262. LACE. SAMUEL H. PAGE, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed June 4, 1921. Serial No. 475,101. Term of patent 7 years.



The ornamental design for lace substantially as shown.

59,263. LACE. SAMUEL H. PAGE, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed June 4, 1921. Serial No. 475,102. Term of patent 7 years.



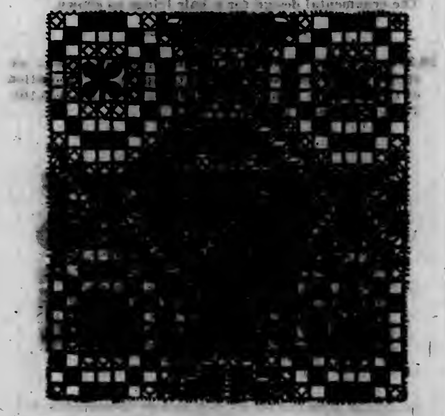
The ornamental design for lace substantially as shown.

59,264. LACE. SAMUEL H. PAGE, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed June 4, 1921. Serial No. 475,103. Term of patent 7 years.



The ornamental design for lace, substantially as shown.

59,265. LACE. SAMUEL H. PAGE, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed June 4, 1921. Serial No. 475,104. Term of patent 7 years.



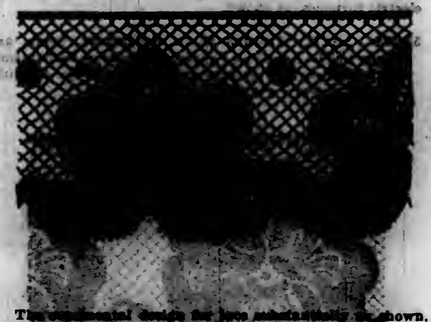
The ornamental design for lace, substantially as shown.

59,266. LACE. SAMUEL H. PAGE, Stratford, Conn. Filed June 20, 1921. Serial No. 481,410. Term of patent 7 years.



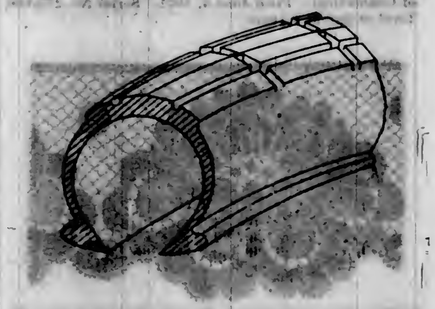
The ornamental design for lace substantially as shown.

59,267. LACE. SAMUEL H. PAGE, Stratford, Conn. Filed June 29, 1921. Serial No. 481,411. Term of patent 7 years.



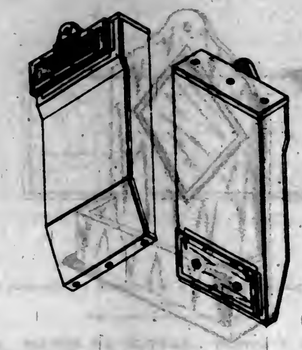
The ornamental design for lace substantially as shown.

59,268. TIRE-TREAD. WALLACE HENRY PAULL, Birmingham, England, assignor to The Dunlop Rubber Company, Limited, London, England. Filed Feb. 21, 1920. Serial No. 360,413. Term of patent 14 years. (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



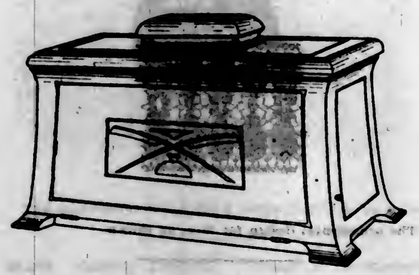
The ornamental design for a tire tread as shown.

59,269. MAIL-BOX. EDWARD T. FRENCH, St. Paul, Minn. Filed June 27, 1921. Serial No. 480,937. Term of patent 14 years.



The ornamental design for a mail box, as shown.

59,270. PORTABLE CASE HAVING COMPARTMENTS FOR STATIONERY SUPPLIES. EDWARD C. PETERS, Fairfield, Iowa. Filed Sept. 23, 1920. Serial No. 412,390. Term of patent 3½ years.



The ornamental design for a portable case having compartments for stationery supplies, as shown.

59,271. LACE. HANS ALBERT PHILIPS, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed June 4, 1921. Serial No. 475,108. Term of patent 7 years.



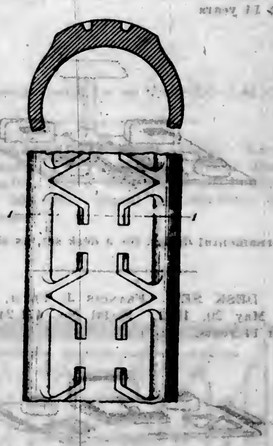
The ornamental design for lace substantially as shown.

59,272. LACE. HANS ALBERT PHILIPS, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed June 4, 1921. Serial No. 475,100. Term of patent 7 years.



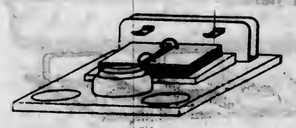
The ornamental design for lace substantially as shown.

59,273. PNEUMATIC-TIRE TREAD. ROBERT M. PERSON, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Apr. 12, 1921. Serial No. 460,812. Term of patent 14 years.



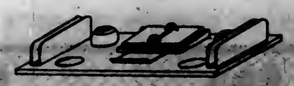
The ornamental design for a pneumatic tire tread as shown.

59,274. DESK SET. FRANCIS J. PLYM, Niles, Mich. Filed May 20, 1921. Serial No. 471,245. Term of patent 14 years.



The ornamental design for a desk set, as shown.

59,276. DESK SET. FRANCIS J. PLYM, Niles, Mich. Filed May 20, 1921. Serial No. 471,246. Term of patent 14 years.



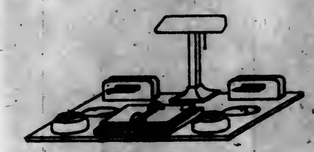
The ornamental design for a desk set, as shown.

59,276. DESK SET. FRANCIS J. PLYM, Niles, Mich. Filed May 20, 1921. Serial No. 471,247. Term of patent 14 years.



The ornamental design for a desk set, as shown.

59,277. DESK SET. FRANCIS J. PLYM, Niles, Mich. Filed May 20, 1921. Serial No. 471,248. Term of patent 14 years.



The ornamental design for a desk set, as shown.

59,278. DESK SET. FRANCIS J. PLYM, Niles, Mich. Filed May 20, 1921. Serial No. 471,249. Term of patent 14 years.



The ornamental design for a desk set, as shown.

59,279. DESK SET. FRANCIS J. PLYM, Niles, Mich. Filed May 20, 1921. Serial No. 471,250. Term of patent 14 years.



The ornamental design for a desk set, as shown.

59,280. COMB AND BRUSH HOLDER. ALEXANDER P. POLANCHYN, Girardville, Pa. Filed Nov. 9, 1920. Serial No. 422,905. Term of patent 7 years.



The ornamental design for a comb and brush holder as shown.

59,281. LACE. GEORGE RAWSON, Oakland Beach, R. I., assignor to Richmond Lace Works, Alton, R. I., a Corporation of Maine. Filed Apr. 28, 1921. Serial No. 465,227. Term of patent 3½ years.



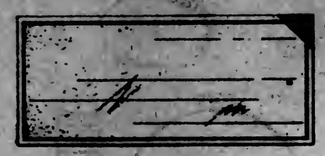
The ornamental design for lace, as shown.

59,282. DOLL. DOROTHY READ, Fort Smith, Ark. Filed May 23, 1921. Serial No. 471,991. Term of patent 14 years.



The ornamental design for a doll, as shown.

59,283. BANK-CHECK. ROBERT P. RICKARDS, Great Falls, Mont. Filed Apr. 13, 1918. Serial No. 231,420. Term of patent 14 years.



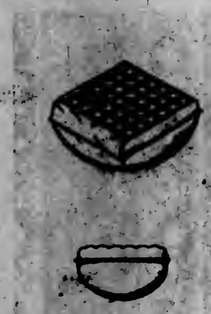
The ornamental design for a bank check, as shown.

59,284. BADGE OR BUTTON. BURTON I. REED, Concord, N. H. Filed Mar. 26, 1921. Serial No. 455,905. Term of patent 7 years.



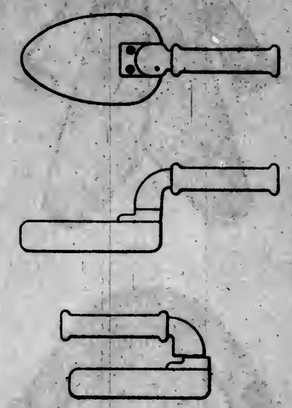
The ornamental design for a badge or button, as shown.

59,285. CANDY TABLET. THOMAS D. RICHARDSON, Philadelphia, Pa. Filed Feb. 12, 1921. Serial No. 444,607. Term of patent 14 years.



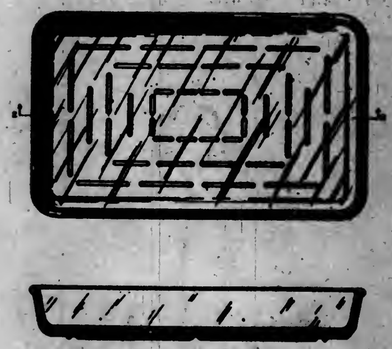
The ornamental design for a candy tablet, substantially as shown.

59,286. ELECTRIC IRON. ALEXANDER RUSSLAND, New York, N. Y. Filed May 7, 1921. Serial No. 467,584. Term of patent 14 years.



The ornamental design for an electric iron as shown.

59,287. TRANSPARENT GLASS DISH. GEORGE D. SAILER, Jeannette, Pa., assignor to McKee Glass Company, Jeannette, Pa., a Corporation of Pennsylvania. Filed Apr. 26, 1921. Serial No. 464,690. Term of patent 14 years.



The ornamental design for a transparent glass dish as shown.

59,288. CHILD'S ONE-PIECE FUR GARMENT. SIDNEY S. HAMBURG, Ingwood, N. Y. Filed May 12, 1921. Serial No. 469,383. Term of patent 7 years.



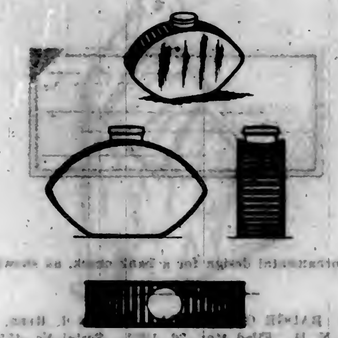
The ornamental design for a child's one-piece fur garment, as shown.

59,289. DOLL. MICHAEL SCHORR, New York, N. Y. Filed Apr. 16, 1921. Serial No. 462,668. Term of patent 7 years.



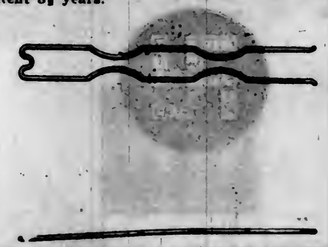
The ornamental design for a doll as shown.

59,290. BOX OR CONTAINER. Charles B. Arndt, Philadelphia, Pa., assignor to Wesley Potter Co., Philadelphia, Pa., a Firm composed of John J. Potter. Filed Sept. 13, 1918. Serial No. 254,015. Term of patent 3½ years.



The ornamental design for a box or container, substantially as shown in the accompanying drawing.

69,291. HAIRPIN. ARTHUR J. SMITH, Tappan, N. Y. Filed Jan. 25, 1921. Serial No. 439,865. Term of patent 3½ years.



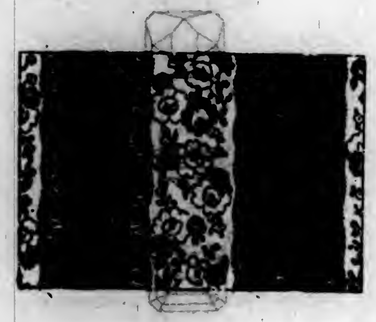
The ornamental design for a hair pin, as shown.

59,292. MATTRESS-TICKING. EUGENE SONNTAG, Jr., Astoria, N. Y., assignor to M. Binkovits & Son, New York, N. Y., a Copartnership of New York. Filed June 15, 1921. Serial No. 477,829. Term of patent 3½ years.



The ornamental design for mattress ticking, as shown.

59,293. MATTRESS-TICKING. EUGENE SONNTAG, Jr., Astoria, N. Y., assignor to M. Binkovits & Son, New York, N. Y., a Copartnership of New York. Filed June 15, 1921. Serial No. 477,830. Term of patent 3½ years.



The ornamental design for mattress ticking, as shown.

59,294. MATTRESS-TICKING. EUGENE SONNTAG, Jr., Astoria, N. Y., assignor to M. Binkovits & Son, New York, N. Y., a Copartnership of New York. Filed June 15, 1921. Serial No. 477,831. Term of patent 3½ years.



The ornamental design for mattress ticking, as shown.

59,295. MATTRESS-TICKING. EUGENE SONNTAG, Jr., Astoria, N. Y., assignor to M. Binkovits & Son, New York, N. Y., a Copartnership of New York. Filed June 15, 1921. Serial No. 477,832. Term of patent 3½ years.



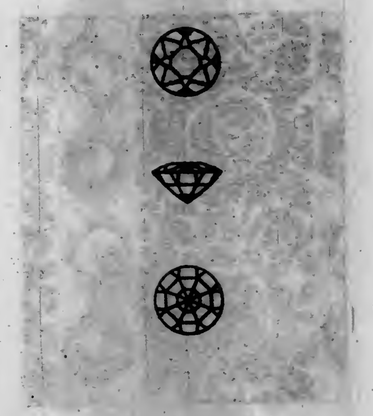
The ornamental design for mattress ticking, as shown.

59,296. MATTRESS-TICKING. EUGENE SONNTAG, Jr., Astoria, N. Y., assignor to M. Binkovits & Son, New York, N. Y., a Copartnership of New York. Filed June 15, 1921. Serial No. 477,833. Term of patent 3½ years.



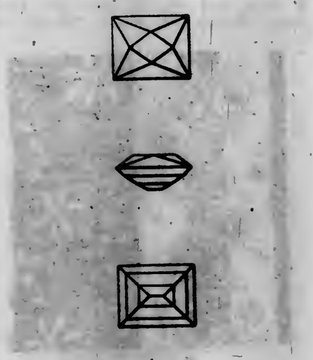
The ornamental design for mattress ticking, as shown.

59,297. PRECIOUS, SEMIPRECIOUS, OR SYNTHETIC JEWEL. HERMAN D. STEBL, Philadelphia, Pa., assignor to Swiss Jewel Co. S. A., Locarno, Switzerland. Filed Feb. 19, 1921. Serial No. 446,524. Term of patent 3½ years.



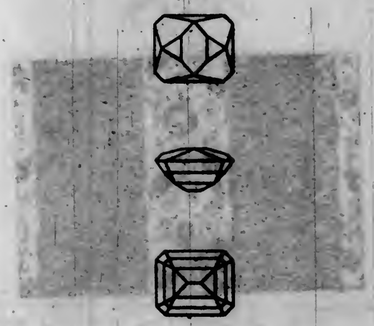
The ornamental design for a precious, semi-precious, or synthetic jewel, substantially as shown.

59,298. PRECIOUS, SEMIPRECIOUS, OR SYNTHETIC JEWEL. HERMAN D. STEBL, Philadelphia, Pa., assignor to Swiss Jewel Co. S. A., Locarno, Switzerland. Filed Feb. 19, 1921. Serial No. 446,525. Term of patent 3½ years.



The ornamental design for a precious, semi-precious, or synthetic jewel, substantially as shown.

59,299. PRECIOUS, SEMIPRECIOUS, OR SYNTHETIC JEWEL. HERMAN D. STEBL, Philadelphia, Pa., assignor to Swiss Jewel Co. S. A., Locarno, Switzerland. Filed Feb. 19, 1921. Serial No. 446,526. Term of patent 3½ years.



The ornamental design for a precious, semiprecious, or synthetic jewel substantially as shown.

59,300. RING. WALTER L. STEWART, Kenton, Ohio. Filed Jan. 8, 1918. Serial No. 210,941. Term of patent 3½ years.



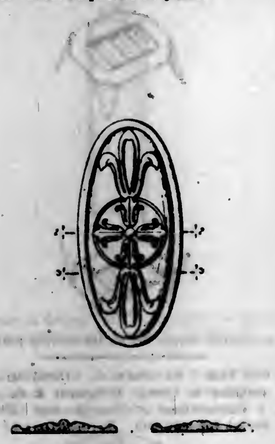
The ornamental design for a ring, as shown.

59,301. FLASHLIGHT. WALTER B. STEPHENSON, Marion, Ind., assignor to Delta Electric Company, Marion, Ind., a Corporation of Indiana. Filed Apr. 14, 1919. Serial No. 290,102. Term of patent 7 years.



The ornamental design for a flashlight as shown.

59,302. MEDALLION. CHARLES A. STUART, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Mar. 14, 1921. Serial No. 452,838. Term of patent 14 years.



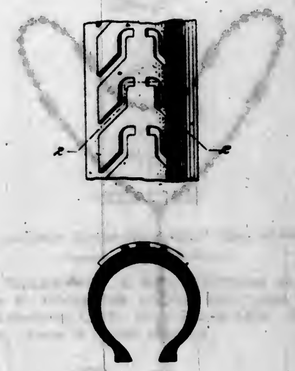
The ornamental design for a medallion as shown and described.

59,303. PICTURE, MIRROR, OR LIKE FRAME. ANTON SWIRNTEK, Chicago, Ill. Filed July 6, 1921. Serial No. 482,856. Term of patent 7 years.



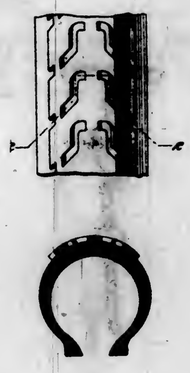
The ornamental design for a picture, mirror, or like frame, as shown.

59,304. TIRE. JOHN TENNEY, Jr., Plainfield, N. J., assignor to Howe Rubber Corporation, a Corporation of Delaware. Filed Jan. 5, 1921. Serial No. 435,279. Term of patent 14 years.



The ornamental design for a tire, as shown.

59,305. TIRE. JOHN TENNEY, Jr., Plainfield, N. J., assignor to Howe Rubber Corporation, a Corporation of Delaware. Filed Jan. 5, 1921. Serial No. 435,280. Term of patent 14 years.



The ornamental design for a tire, as shown.

59,306. ROSARY. GUSTAVE TEISSIER, Wyandanch, N. Y. Filed July 13, 1921. Serial No. 485,099. Term of patent 14 years.



The ornamental design for a rosary, as shown.

59,307. WATCH-CHAIN. RICHARD VAN DONLAN, Albuquerque, N. Mex., assignor of one-half to Louis P. Hilderbrand, Cooley, Ariz. Filed Oct. 9, 1920. Serial No. 415,913. Term of patent 14 years.



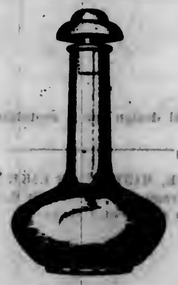
The ornamental design for a watch chain, as shown.

59,308. ICE-CREEPING PLATE. JOHN WEBER, Schoharie, N. Y. Filed Nov. 11, 1920. Serial No. 423,280. Term of patent 14 years.



The ornamental design for an ice-creeper-plate as shown.

59,309. BOTTLE. MATTHEW G. VIDULICH, Jersey City, N. J., assignor to George Borgfeldt & Co., New York, N. Y., a Corporation of New Jersey. Filed Mar. 5, 1921. Serial No. 450,093. Term of patent 14 years.



The ornamental design for a bottle substantially as shown and described.

59,310. VEHICLE-TIRE. REGINALD H. WATERS, Cumberland, Md., assignor to Kelly-Springfield Tire Company, New York, N. Y., a Corporation of New Jersey. Filed June 2, 1921. Serial No. 474,578. Term of patent 14 years.



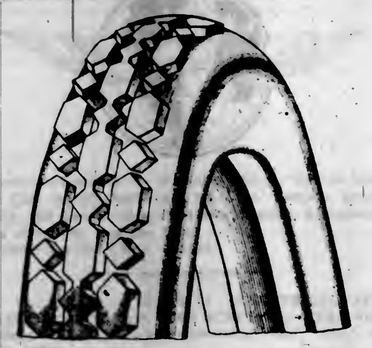
The ornamental design for a vehicle tire, as shown and described.

59,311. RECEPTACLE FOR TOILET POWDER AND OTHER COMMODITIES. LOUIS A. WEGENAAR, Brooklyn, N. Y. Filed Sept. 23, 1920. Serial No. 412,403. Term of patent 14 years.



The ornamental design for a receptacle for toilet powder and other commodities substantially as shown.

59,312. TIRE-TREAD. WILSON F. WILEY and ADOLPH REINSBERG, Salt Lake City, Utah. Filed Jan. 5, 1920. Serial No. 349,617. Term of patent 7 years.



The ornamental design for a tire tread, as shown.

59,313. PASTRY-LIFTER. WILLIAM G. WILSON, West Brighton, N. Y. Filed Apr. 25, 1921. Serial No. 464,456. Term of patent 3½ years.



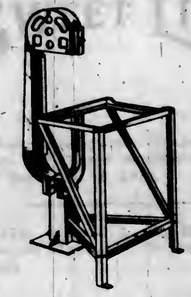
The ornamental design for a pastry lifter, as shown.

59,314. FINGER-RING. JOSH WINSEN, Detroit, Mich. Filed Mar. 14, 1921. Serial No. 452,320. Term of patent 14 years.



The ornamental design for a finger ring, as shown.

59,315. FRAME FOR A MEAT-CUTTING MACHINE. WILSON R. WOODS, Los Angeles, and JAMES F. LANGSTON, Lancaster, Calif. Filed Feb. 9, 1920. Serial No. 357,363. Term of patent 14 years.

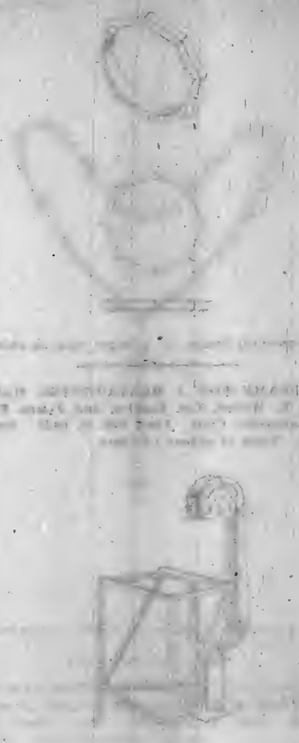


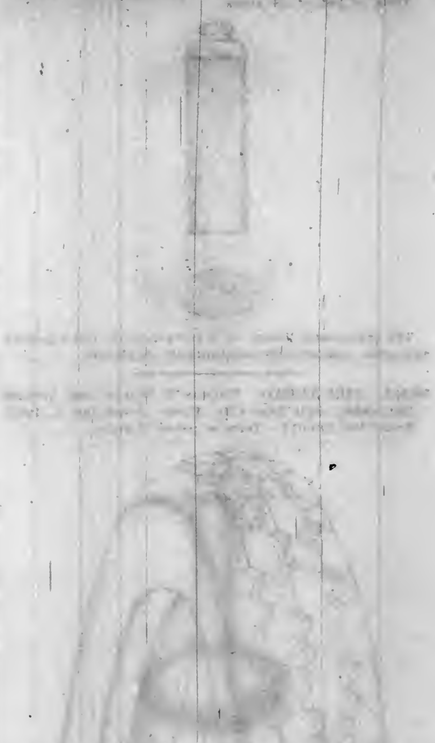
The ornamental design for a frame for a meat cutting machine, as shown.

59,316. JEWELRY — NAMELY, A FINGER-RING OR ARTICLE OF SIMILAR NATURE. FRANK ZOLDO, New York, N. Y. Filed June 17, 1921. Serial No. 478,440. Term of patent 7 years.

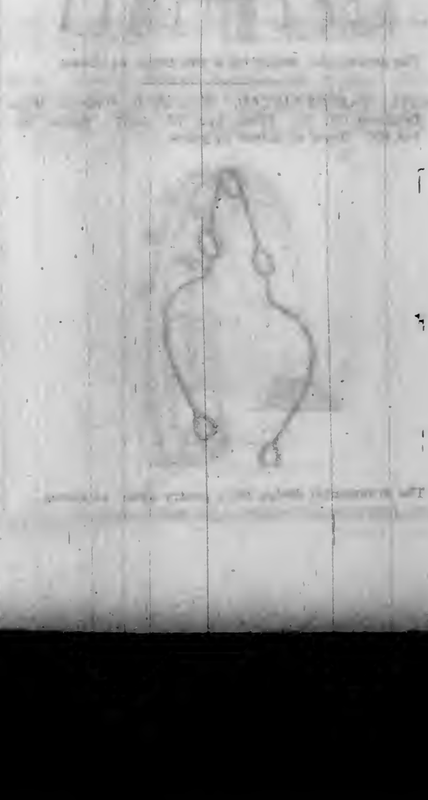


The ornamental design for jewelry, namely a finger ring or article of similar nature as shown.









TRADE-MARKS

OFFICIAL GAZETTE, OCTOBER 4, 1921.

[PUBLISHED OCTOBER 11, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 111,457. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NICK W. KLINE, Los Angeles, Calif. Filed June 10, 1918.



Particular description of goods.—Salve; Specific Medicinal Uses of My Salve are for Cuts, Sprains, Bruises, Burns, Old Sores, Piles, Paralysis, Eczema, Rheumatism, Skin Affections, and the Like.
Claims use since Mar. 1, 1918.

Ser. No. 117,415. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE SHARP SPARK PLUG COMPANY, Cleveland, Ohio. Filed Apr. 12, 1919.



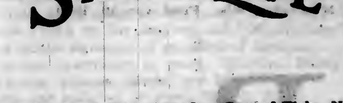
No claim is made to the words "Sharp Sparks" apart from the mark shown.
Particular description of goods.—Spark-Plugs.
Claims use since July, 1918.

Ser. No. 120,529. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE GEM HAMMOCK & FLY NET COMPANY, Milwaukee, Wis. Filed July 14, 1919.



Particular description of goods.—Oil for Mops.
Claims use since Nov. 24, 1916.

Ser. No. 125,918. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOS. SOCOLOF CO. INC., Brooklyn, N. Y. Filed Dec. 12, 1919.



Particular description of goods.—Canned Fish—Namely, Canned Salmon and Canned Sardines.
Claims use since June 15, 1916.

Ser. No. 129,379. (CLASS 2. RECEPTACLES.) THE GLASS COATING COMPANY, Cleveland, Ohio. Filed Mar. 8, 1920.



Particular description of goods.—Steel Tanks or Containers for Liquids.
Claims use since Dec. 20, 1919.

Ser. No. 130,093. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT L. EATON, Atlanta, Ga. Filed Mar. 23, 1920.



Particular description of goods.—Tonic and Liver Preparation.
Claims use since Nov. 1, 1917.

Ser. No. 131,852. (CLASS 24. MEDICAL INSTRUMENTS AND SUPPLIES.) Pneumercator Accessories Co., Milwaukee, Wis. Filed Apr. 19, 1920.

PACO

Particular description of goods.—Phonograph-Record Files.
Claims use since Mar. 20, 1920.

Ser. No. 131,936. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GRASSER CHEMICAL COMPANY, INC., New Orleans, La. Filed Apr. 20, 1920.



Particular description of goods.—Merchants.
Claims use since Feb. 16, 1920.

Ser. No. 132,440. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES P. MCCALLUM, Jackson, Tenn. Filed May 14, 1920.



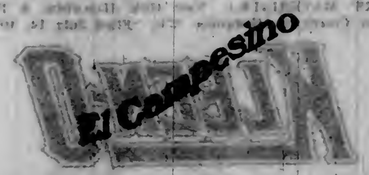
No claim being made to the words "Herb Extract" other than that shown in the accompanying drawing.
Particular description of goods.—Medicine Used in the Treatment of Bronchitis, Croup, Laryngitis, Tonsilitis, Sore Throat, Burns and Scalding Sensations in the Urethra in Urinating, Blood-Builder and Blood-Purifier, Stomach, Bowels, Cholera Morbus, Diarrhea and Dysentery, Flux, Summer Complaint, and Bloody Flux, Cuts, Wounds, Burns, Freckles, Eczema, Itch, Poison-Ivy, Stings, and Piles.
Claims use since Sept. 15, 1919.

Ser. No. 132,788. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARNOLD HENRY BRECKWEDEL, San Francisco, Calif. Filed June 2, 1920.

BEE-HIVE KIST

Particular description of goods.—Natural or Fresh Deciduous Fruits, Berries, Dates, Natural or Fresh Citrus Fruits, Fruit Juices, Fruit Jellies, Fruit Preserves, Canned Fruits and Vegetables, Dill-Pickles, Candy and Strained Honey, Peanut-Butter, Baked Beans, Olive Oil, Olives, Catsup, and Natural or Fresh Vegetables.
Claims use since May 24, 1920.

Ser. No. 133,233. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SWIFT AND COMPANY, Chicago, Ill. Filed June 3, 1920.



Particular description of goods.—Sausage.
Claims use since Jan. 15, 1900.

Ser. No. 133,580. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PALLARÈS HERMANOS, Cabra, Spain. Filed June 11, 1920.



The portrait shown on the accompanying drawing is that of King Alfonso of Spain.
Particular description of goods.—Olive-Oil.
Claims use since the 28th day of February, 1918.

Ser. No. 133,662. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOUSEHOLD REMEDIES COMPANY, Birmingham, Ala. Filed June 14, 1920.

M.D. D.D.S. D.V.S. Ph.G.

No claim being made for the abbreviations "M. D.," "D. D. S.," "D. V. S.," and "Ph. G." apart from the trade mark shown.
Particular description of goods.—Medicine for the Treatment of Malaria, Coughs, Colds, Headaches, Rheumatism, Kidney, Liver, Stomach; Tooth-Paste, Antiseptic Mouth-Wash, Toothache-Drops; Liniments for Pains, Bruises and Sprains; Dog-Tonic, Dog Mange Remedy, Dog-Laxative, Dog-Vermifuge, Cathartic Horse-Pills, Horse Tonic Powder, Horse-Laxative, Horse-Liniment, Horse Colic Remedy, Horse Worm Remedy, Horse Diuretic, Ointments for Itch and Eczema.
Claims use since December, 1919.

Ser. No. 134,147. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMOSET CHOCOLATES COMPANY, Boston, Mass. Filed June 24, 1920.

GOOD SPORT

Particular description of goods.—Chocolate Candy.
Claims use since Mar. 30, 1920.

Ser. No. 134,699. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARTY CANDY CO., Philadelphia, Pa. Filed July 8, 1920.



The shade lining on the drawing represents brown coloring. No claim is made to the words "Chocolate Covered Home Made Fudge" apart from the mark shown in the drawing.
Particular description of goods.—Candy.
Claims use since Mar. 17, 1919.

Ser. No. 134,787. (CLASS 39. CLOTHING.) THE PRINCESS GARMENT COMPANY, Cincinnati, Ohio. Filed July 10, 1920.

Marjie Lee Togs

No claim being made for the word "Togs" apart from the mark shown on the drawing and "Marjie Lee Togs" being facsimile signature of an officer of applicant.
Particular description of goods.—Middies, Middy-Suits, Washdresses, Smocks, Skirts, and Bloomers.
Claims use since on or about May 5, 1920.

Ser. No. 135,011. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE MOTOMETER COMPANY, INC., Long Island City, N. Y. Filed July 15, 1920.

BOICE MOTOMETER

Particular description of goods.—Motor Accessories, Temperature-Indicating Devices for Engines.
Claims use since Dec. 21, 1912.

Ser. No. 135,099. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE CLOUD ACCESSORIES CORPORATION, Chicago, Ill. Filed July 17, 1920.

CLOUD 75

Particular description of goods.—Spark-Plugs for Internal-Combustion Engines.
Claims use since Feb. 15, 1920.

Ser. No. 135,586. (CLASS 39. CLOTHING.) JOHN WANAMAKER, New York, New York, N. Y. Filed July 29, 1920.



Particular description of goods.—Men's, Women's, Misses', Children's, and Infants' Wear—viz., Overcoats, Suits, Dresses, Coats, Shirts, Knitted and Muslin Underwear, Lingerie, Dress-Shirts, Negligée Shirts, Stockings; Leather, Rubber, and Canvas Shoes; Leather Gloves, Fabric Gloves, Belts for Personal Wear, Hats, Caps, Bonnets and Bonnet-Frames, Shirt-Waists, Negligée, Wrappers, Gowns, Undermuslins, Corsets, Brassières, Blouses, Tunics, Collars and Cuffs, and Capes.
Claims use since about Jan. 1, 1918.

Ser. No. 135,643. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS. THE HYDRAULIC STEEL COMPANY, Cleveland, Ohio. Filed July 31, 1920.



No claim is made for the words "Metal" and "Canton, Ohio" independent of the other features of the mark.
Particular description of goods.—Rolled-Steel Sheets and Rolled Steel in Various Forms and Finishes.
Claims use since about July 28, 1920.

Ser. No. 135,681. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE CLOUD ACCESSORIES CORPORATION, Chicago, Ill. Filed July 29, 1920.



The words "Another" and "Accessory" being disclaimed apart from the mark as shown.
Particular description of goods.—Automobile Accessories, Particularly Spark-Plugs.
Claims use since Feb. 15, 1920.

Ser. No. 135,850. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRUIT VALLEY CORPORATION, Rochester, N. Y. Filed Aug 6, 1920.

JEL-ADE

Particular description of goods.—Food Product, the Product Being Composed of Pectin and a Fruit Acid or other Organic Acid, Which Food Product When Combined with the Proper Amount of Sugar and Water will Form Jelly and When Combined with the Proper Amount of Fruit, Sugar and Water will Make Jam.
Claims use since July 24, 1920.

Ser. No. 135,851. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRUIT VALLEY CORPORATION, Rochester, N. Y. Filed Aug. 6, 1920.

Jel-ly-Ade

Particular description of goods.—Food Product, the Product Being Composed of Pectin and a Fruit Acid or other Organic Acid, Which Food Product When Combined with the Proper Amount of Sugar and Water will Form Jelly and When Combined with the Proper Amount of Fruit, Sugar and Water will Make Jam.
Claims use since July 24, 1920.

Ser. No. 136,242. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LAWRENCE M. TULLY, Oakland, Calif. Filed Aug. 18, 1920.

GOLDEN RULE



Particular description of goods.—Candies.
Claims use since July 20, 1920.

Ser. No. 137,066. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JACOB E. DECKER & SONS, Mason City, Iowa. Filed Sept. 11, 1920.

DUTCH KITCHEN

Particular description of goods.—Sausage, Water, and Cereal, Said Sausage, Water, and Cereal Consisting of Beef or Pork with Beef Offal or Pork Offal, to Which is Added Cereal Not to Exceed Two Per Cent. and Water Not to Exceed Three Per cent., or an Amount Necessary to Make the Product Palatable; Potted Meat Products, Such Potted Meat Products to Contain Pork, Beef, Pork Offal, and Beef Offal, Together with Necessary Seasoning; Corned-Beef Hash, Such Corned-Beef Hash to Contain Principally Corned-Beef; There Being No other Specific Commercial Names for Same.
Claims use since July 1, 1919.

Ser. No. 137,096. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MENLEY & JAMES, LIMITED, New York, New York, N. Y. Filed Sept. 11, 1920.

VOLIDINE

Particular description of goods.—Pharmaceutical Preparations in the Nature of an Antiseptic or Counter-Irritant to be Used Externally.
Claims use since Aug. 2, 1920.

Ser. No. 137,163. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AKTIEBOLAGET VAPORACKUMULATOR, Stockholm, Sweden. Filed Sept. 14, 1920.

VAPORACKUMULATOR

Particular description of goods.—Steam-Accumulator.
Claims use since Dec. 9, 1919.

Ser. No. 137,207. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA GROWERS ASSOCIATION, INC., Los Angeles, Calif. Filed Sept. 15, 1920.

SIERRA

Particular description of goods.—Canned Fruits, Except Olives, and Canned Vegetables.
Claims use since Apr. 12, 1920.

Ser. No. 137,218. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WALTER L. EBHARDT, St. Louis, Mo. Filed Sept. 15, 1920.

CARBORENE

ANTISEPTIC GERMICIDE

PREPARED BY
CARBORENE CHEMICAL CO.
ST. LOUIS, MO.

No claim being made to the words "Antiseptic, Germicide, Prepared by, St. Louis, Mo.," apart from the mark as shown.
Particular description of goods.—Antiseptics.
Claims use since Jan. 1, 1919.

Ser. No. 137,562. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) BARNHART BROTHERS & SPINDLER, Chicago, Ill. Filed Sept. 24, 1920.

TENSO

Particular description of goods.—Non-Ferrous Metal Alloys.
Claims use since June 15, 1920.

Ser. No. 138,745. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANGIER CHEMICAL CO., Boston, Mass. Filed Oct. 25, 1920.



No claim being made to the words "Emulsion de Petroleo," "Marca de Fabrica," "Sin Sabor," "Sin Olor,"

"Tonico," and "Remedio" apart from the mark shown on the drawing.

Particular description of goods.—An Emulsion of Refined Petroleum Used as an Internal Remedy in Affections of the Throat and Lungs, Such as Coughs, Colds, Influenza, Grip, Pneumonia, Diphtheria, and Bronchitis. It Also is Used in Functional Disorders of the Digestive Organs.

Claims use since July 1, 1893.

Ser. No. 138,792. (CLASS 2. RECEPTACLES.) UNION TOOL CHEST COMPANY, Rochester, N. Y. Filed Oct. 25, 1920.

UNION

Particular description of goods.—Tool-Chests.
Claims use since 1906.

Ser. No. 138,842. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANÇOIS JOSEPH DE SPOTURNO COTT, Suresnes, France. Filed Oct. 27, 1920.



Particular description of goods.—Face-Powders.
Claims use since 1914.

Ser. No. 138,998. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE OHIO DAIRY CO., Toledo, Ohio. Filed Oct. 30, 1920.



Particular description of goods.—Butter Substitute.
Claims use since Oct. 11, 1920.

Ser. No. 139,316. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) STANDARD CONVEYOR COMPANY, North St. Paul, Minn. Filed Nov. 6, 1920.



No claim being made to the words "Gravity" and "Free Power" apart from the mark shown in the drawing.

Particular description of goods.—Gravity-Conveyors, Slat Power-Conveyors, Belt Conveyors, Incline-Elevators, Automatic Elevators, Spirals, and Parts Thereof.
Claims use since Sept. 18, 1920.

Ser. No. 139,737. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN J. DOWNEY, Burgettstown, Pa. Filed Nov. 17, 1920.

"Little-Wonder"

Particular description of goods.—Washing Compound.
Claims use since Aug. 15, 1920.

Ser. No. 139,966. (CLASS 2. RECEPTACLES.) EDWARD C. WALLEN, 2d, Batavia, N. Y. Filed Nov. 22, 1920.

PLUMBIZED

Particular description of goods.—Pails, Pans, Vats, Buckets, Scoops, Dippers, Skimmers, and Cans for Holding Refuse and Chemicals.
Claims use since Jan. 1, 1919.

Ser. No. 140,331. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAWLEY & HOOPS, New York, N. Y. Filed Nov. 29, 1920.

BLACKCAPS

Particular description of goods.—Candy.
Claims use since about 1900.

Ser. No. 140,397. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) NEW ERA OPTICAL CO., Chicago, Ill. Filed Nov. 29, 1920.



Particular description of goods.—Moving-Picture Slides, Amoptiscopes, Eyeglasses, Spectacles, Goggles, Eye-Protectors, Eye-Shields, Bird-Glasses, Field-Glasses, Magnifying-Glasses, Reading-Glasses, Sun-Glasses, Ophthalmic Lenses, Condensing-Lenses, Trial Test-Lenses, Edged Lenses, Uncut Lenses, Lens-Blanks, Trial Frames, Trial Sets, Binoculars, Loupes, Lorgnettes, Test-Type Cabinets, Test-Charts, Test-Cards, Test-Types, Thermometers, Compasses, Stereoscopes, Combined Ophthalmoscopes and Retinoscopes, Ophthalmoscopes, Retinoscopes, Ophthalmometers, Eye-Models, Optometers, Photometers, Prismoptometers, Punctometers, Rotary Prisms, Schematic Eye-Tests, "Ski-Optometer" Automatic Trial Frames, Pedometers, Telescopes, Axis-Marking Instruments, Lens-Centering Machines, Cement-Segment Setters, Scale Bifocal Setters, Eyeglass-Fitting Sets, Calipers, Eye-Plates, Eye-Rests, Lens-Stretchers, Strap-Gages, Millimeter-Gages, Temple-Gages, Lens-Gages, Lens-Measures, Lens-Stops, Millimeter-Rules, Pupillary Measures, Gold-Testing Needles, Gold-Weighing Scales, Neutralizing Sets, Tape-Measures, Muscle-Tests, Bifocal-Lens Holders, and Eyeglass and Spectacle Mountings Consisting of Handles, Frames, Guards, End Pieces, Fronts, Grab-Backs, Temples, Temple-Tubes, Washers, Screws, Studs, Springs, Nose-Rests, Rims, Bridges, Comfort-Pads, Comfort-Pad Nose-Cushions, and Temple Ear-Protectors.
Claims use since on or about Mar. 15, 1913.

Ser. No. 140,420. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) FARRON S. BETTS, Brooklyn, N. Y. Filed Nov. 30, 1920.



Applicant hereby disclaims the exclusive right to the use of word "Albums" apart from the mark shown in the drawing.

Particular description of goods.—An Album for Phonograph-Records.
Claims use since Jan. 1, 1912.

Ser. No. 140,545. (CLASS 15. OILS AND GREASES.) RUSK OIL CO. OF PHILADELPHIA, PA., Philadelphia, Pa. Filed Dec. 2, 1920.

GREFLO

Particular description of goods.—Lubricating Greases.
Claims use since Nov. 11, 1920.

Ser. No. 140,641. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FIGARO CHEMICAL CO., Dallas, Tex. Filed Dec. 6, 1920.



The words "Egg Preserver, Sodium Silicate" are hereby disclaimed except in combination with mark shown.

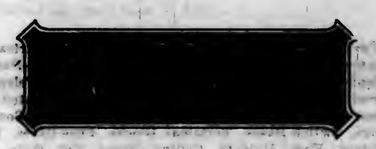
Particular description of goods.—Egg-Preserving Compound.
Claims use since Nov. 1, 1920.

Ser. No. 140,654. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KAUFMAN-STRAUS CO., Louisville, Ky. Filed Dec. 6, 1920.

STELLA

Particular description of goods.—Skin and Massage Lotions and Creams; Facial, Skin, and Depilatory Powders.
Claims use since Nov. 30, 1905.

Ser. No. 140,800. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) NEW ERA OPTICAL CO., Chicago, Ill. Filed Dec. 8, 1920.



The lining in drawing is for purposes of shading only.

Particular description of goods.—Moving-Picture Slides, Amoptiscopes, Eyeglasses, Spectacles, Goggles, Eye-Protectors, Eye-Shields, Bird-Glasses, Field-Glasses, Magnifying-Glasses, Reading-Glasses, Sun-Glasses, Ophthalmic Lenses, Condensing-Lenses, Trial Test-Lenses, Edged

Lenses, Uncut Lenses, Lens-Blanks, Trial Frames, Trial Sets, Binoculars, Loupes, Lorgnettes, Test-Type Cabinets, Test-Charts, Test-Cards, Test-Types, Thermometers, Compasses, Fluoroscopes, Combined Ophthalmoscopes and Retinoscopes, Ophthalmoscopes, Retinoscopes, Ophthalmometers, Eye-Models, Optometers, Phorometers, Prismoptometers, Functometers, Rotary Prisms, Schematic Eye-Tests, "Shi-Optometer" Automatic Trial Frames, Perimeters, Telescopes, Axis-Marking Instruments, Lens-Centering Machines, Cement-Segment Setters, Scale Bifocal Setters, Eyeglass-Fitting Sets, Calipers, Eye-Plates, Eye-Sizers, Rim-Stretchers, Strap-Gages, Millimeter-Gages, Temple-Gages, Lens-Gages, Lens-Measures, Lens-Sizers, Millimeter-Rules, Pupillary Measures, Gold-Testing Needles, Gold-Weighing Scales, Neutralizing Sets, Tape-Measures, Muscle-Tests, Bifocal-Lens Holders, and Eyeglass and Spectacle Mountings Consisting of Handles, Frames, Guards, End Pieces, Fronts, Grab-Backs, Temples, Temple-Tubing, Washers, Screws, Studs, Springs, Nose-Rests, Rims, Bridges, Comfort-Pads, Comfort-Pad Nose-Cushions, and Temple Ear-Protectors.

Claims use since on or about Mar. 15, 1918.

Ser. No. 140,841. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOWY LABORATORY, INC., Newark, N. J. Filed Dec. 9, 1920.

P.A.L.

Particular description of goods.—Prophylactics, Particularly for Venereal Diseases.

Claims use since about Nov. 3, 1920.

Ser. No. 140,879. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THOMAS DE LA RUE AND COMPANY, LIMITED, London, England. Filed Dec. 10, 1920.

TELENDURON

Particular description of goods.—Molded Electrical Insulators and Insulating Appliances and Fittings—Namely, Telephone-Receivers, Telephone-Mouthpieces, Telephone Terminal Boxes, Flexible Cable-Couplings, Insulated Terminal Nuts, Magneto-Covers, Insulated Blocks, Contact-Rings, Switch-Bases, Terminal Blocks, Fuse-Bases, Fuse-Bridges, Fuse-Holders, Ceiling-Roses, Cut-Outs, Arc-Shields, Adapters, Solenoid-Housings, Brush-Spindles, Insulated Hand-Lamps, Lamp-Holders, Switchboard-Insulators, High-Tension Insulators, Low-Tension Insulators, Shackles, Plugs and Sockets, Bushes, Disks and Rings, Instrument-Bushes, Bell-Base Covers, Rail-Insulators, Cord-Absorbers.

Claims use since April, 1919.

Ser. No. 140,882. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE HEISSE CO., Cleveland, Ohio. Filed Dec. 10, 1920.

ANY THING WHERE TIME

No claim is made to the exclusive right to the words "Anything, Anywhere, Any Time" except in the arrangement shown.

Particular description of goods.—Photographic Plates and Films.

Claims use since Jan. 10, 1910.

Ser. No. 141,072. (CLASS 2. RECEPTACLES.) THE F. H. LAWSON COMPANY, Cincinnati, Ohio. Filed Dec. 14, 1920.

LAWCO

Particular description of goods.—Placed and Stamped Tinware, Japanned and Galvanized Ware, Sheet-Metal Products—Namely, Ash-Cans, Garbage-Pails, Oil-Cans, Gasolene-Cans, Auto-Radiator-Filling Cans, Strainer-Pails, and Waste-Baskets.

Claims use since Aug. 22, 1912.

Ser. No. 141,168. (CLASS 39. CLOTHING.) FUNK & MALSH CAP CO., St. Louis, Mo. Filed Dec. 20, 1920.

Fashion Plus Caps

No exclusive claims being made to the word "Caps" apart from the mark shown.

Particular description of goods.—Caps for Men and Boys.

Claims use since Nov. 15, 1920.

Ser. No. 141,215. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DAVID G. DEE, Chicago, Ill. Filed Dec. 17, 1920.

GUARDIAN

Particular description of goods.—Electric Automatic Fire-Detectors.

Claims use since July 27, 1920.

Ser. No. 141,554. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARTER CHOCOLATE COMPANY, Boston, Mass. Filed Dec. 28, 1920.

BONBON CROSS

The words "Bonbon Cross."

Particular description of goods.—Candy.

Claims use since October, 1919.

Ser. No. 141,558. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARTER CHOCOLATE COMPANY, Boston, Mass. Filed Dec. 28, 1920.

WOOLEN STRING

The words "Woolen String."

Particular description of goods.—Candy.

Claims use since Aug. 28, 1920.

Ser. No. 141,903. (CLASS 39. CLOTHING.) DUNLAP & CO., New York, N. Y. Filed Jan. 6, 1921.

DUNLAP

Particular description of goods.—Hats and Caps of All Kinds for Men and Women, Coats and Suits for Men and Women, Neckties, Mufflers, Leather and Fabric Gloves, Furs, Scarfs.

Claims use on hats and caps since 1857, and on the remaining goods since Jan. 1, 1920.

Ser. No. 142,159. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE F. MELCHIOR, Chicago, Ill. Filed Jan. 12, 1921.



The picture in the drawing is fanciful.

Particular description of goods.—Hair-Tonic, Dandruff Remedy.

Claims use since Feb. 16, 1920.

Ser. No. 142,192. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) AETNA NUT CO., Southington, Conn. Filed Jan. 18, 1921.

BLACK HORSE



Particular description of goods.—Horseshoe Heel and Toe Calks.

Claims use since 1911.

Ser. No. 142,436. (CLASS 39. CLOTHING.) ABRAHAM FLAX, New York, N. Y. Filed Jan. 19, 1921.



GARMENTS

Applicant disclaims the exclusive use of the word "Garments."

Particular description of goods.—Children's Suits, Dresses, Rompers, Shirts, Waists, Pantaloons, Pants, Knickerbockers, and Blouses.

Claims use since Sept. 1, 1920.

Ser. No. 142,550. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) BLAZ-AWAY, Oakland, Calif. Filed Jan. 21, 1921.

BLAZ-AWAY

Particular description of goods.—Kindling Compounds.

Claims use since Sept. 24, 1920.

Ser. No. 142,551. (CLASS 32. FURNITURE AND UPHOLSTERY.) THELLA R. BRAWLEY, Brooklyn, N. Y. Filed Jan. 21, 1921.

DRESS WELL PAD

No claim being made to the word "Pad" apart from the mark shown in the drawing.

Particular description of goods.—Chair-Pads.

Claims use since May 15, 1920.

Ser. No. 142,668. (CLASS 2. SPECTACLES.) AMOSKEAG MANUFACTURING COMPANY, Manchester, N. H. Filed Jan. 22, 1921.

MASSABESIC

Particular description of goods.—Bags Made of Cloth.

Claims use since Feb. 10, 1918.

Ser. No. 142,835. CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ENG-SEELL COMPANY, INC., San Francisco, Calif. Filed Jan. 27, 1921.

Mac-Maple

The applicant disclaims the use of the word "Maple" apart from the other features of the mark.

Particular description of goods.—Flavoring Compound for Use in Food-Syrups, Candies, Confectionery, and Bakery Goods.

Claims use since January, 1917.

Ser. No. 142,918. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) BILLINGS PLAYER ROLL COMPANY, Milwaukee, Wis. Filed Jan. 29, 1921.

STAFFNOTE SONG ROLL

No claim is made to the exclusive use of the words "Song Roll" apart from the mark shown.

Particular description of goods.—Player-Rolls for Piano-Player.

Claims use since Dec. 15, 1920.

Ser. No. 143,061. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOUIS ROSENFELD, Chicago, Ill. Filed Feb. 1, 1921.

SUNNY BROOK

The picture being fanciful.

Particular description of goods.—Canned Fruit, Canned Vegetables, Canned Jam, and Canned Condensed Milk.

Claims use since Jan. 6, 1921.

Ser. No. 143,257. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE CITIZENS' WHOLESALE SUPPLY COMPANY, Columbus, Ohio. Filed Feb. 7, 1921.

TRADE MARK

GOLDEN RULE

CO.

No claim being made to the words "Trade Mark."

Particular description of goods.—Coffee-Makers and Coffee-Percolators.

Claims use since Nov. 10, 1895.

Ser. No. 143,411. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THOMAS SHORTISS, Toronto, Ontario, Canada. Filed Feb. 10, 1921.

TRADE MARK

Rushers

REGISTERED

No claim being made to the words "Trade-Mark" and "Registered" apart from the mark shown on the drawing.

Particular description of goods.—Confectionery, the Specific Characteristics of Which are That It is a Candy, a Solid Confection of Sugar, and other Ingredients Combined with Flavoring and Coloring Substances.

Claims use since Jan. 1, 1921.

Ser. No. 143,530. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PHILIP P. APPEL, Seattle, Wash. Filed Feb. 14, 1921.

HeeTeeT

Particular description of goods.—An Electric Heating Unit for Use With the Following Electrically-Operated Devices: Electric Radiators, Chocolate-Dipping Tables, Doughnut-Sleeves and Cookers, Baking-Ovens, Candy-Batch Heaters, Restaurant Steam-Tables, Coffee-Urns, Drying-Ovens, Clothes-Driers, Shoe-Driers, Brush-Driers, Glue-Heaters, Process-Printing Machines, Ruling-Machines; Elevators, (Freight and Passenger;) Clothes-Pressing Machines, Tank-Heaters of all Kinds, Eggs-Preserving Machines, Soap-Making Machines, Grease-Mixing Machines, Automobile-Painting Machines, Rope-Tarring Tanks and Machines, Chicken Plumping and Dressing Tanks, Water-Heaters, Pancake-Griddles, Ice-Cream Machines, Paper-Pulp Machines, Bonbon-Dipping Machines, Chocolate-Enrobing Machines, Evaporators, Drying-Chutes, Fireless Cookers, Cattle-Tanks, Bacteriological Ovens, Fuel-Oil Reservoirs, Oil-Pipe Lines, Heaters for Automobile-Radiators, Cowls, Tonneaus, and Engine-Carbureters.

Claims use since Dec. 1, 1920.

Ser. No. 143,620. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIÉTÉ ANONYME DES PARFUMS D'ARTE, Courbevoie, France. Filed Feb. 15, 1921.

ARYS

The color lining merely representing shading.

Particular description of goods.—Perfumes, Eau-de-Cologne, Toilet Cream, Face-Lotions, Hair-Lotions, Dentifrices, and Rouges.

Claims use since July 15, 1918.

Ser. No. 143,652. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) MARRET, BONNIN, LESEL & GUIED, Paris, France. Filed Feb. 16, 1921.

"OSMIOR"

Consists of the invented word "Osmior."

Particular description of goods.—An 18-Carat-Gold Alloy Intended to be Used for Jewelry and Jewelers' Goods.

Claims use since about Nov. 1, 1919.

Ser. No. 143,739. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) BAR ZIM TOY MFG. CO. INC., New York, N. Y. Filed Feb. 18, 1921.

PLAY-A-TONE

Consisting of the hyphened word "Play-a-Tone."

Particular description of goods.—A Mouth Wind Musical Instrument in the Nature of a Whistle.

Claims use since June, 1914.

Ser. No. 143,806. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS. RUBBER & CELLULOID PRODUCTS COMPANY, Newark, N. J. Filed Feb. 19, 1921.

ALBERITE

Particular description of goods.—Parts of Harness for Horses—Namely, Rings, Center Rings, Slide-Loops, Face-Pieces, Standing-Martingales, Rein-Spreaders, Hip-Drops, Flank-Drops, Spreader-D's, and Harness-Trimmings.

Claims use since about June 1, 1919.

Ser. No. 143,883. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) METROSE BROTHERS, Dallas, Tex. Filed Feb. 21, 1921.

CRE-MIL-LAC

Particular description of goods.—A Milk Drink Made from Sweet Milk.

Claims use since Feb. 9, 1921.

Ser. No. 144,066. (CLASS 39. CLOTHING.) COHEN & ETTENSON, New York, N. Y. Filed Feb. 28, 1921.

QUALITY DURABILITY UNIVERSITY MILLS COMFORT GUARANTEED

No claim is made to the exclusive use of the words "Quality, Durability, Comfort Guaranteed" apart from the mark shown on the drawing.

Particular description of goods.—Hosiery, Knitted and Woven Underwear, Knitted Sweaters, Woven Overshirts.

Claims use since December, 1920.

Ser. No. 144,096. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MINT GUM COMPANY, INC., New York, N. Y. Filed Feb. 28, 1921.

A A

Particular description of goods.—Chewing-Gum.

Claims use since Nov. 30, 1917.

Ser. No. 144,172. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Brewster Sons Company, Newark, N. J. Filed Mar. 1, 1921.

Dairy Maid



The illustration of a girl shown on the drawing is fanciful.

Particular description of goods.—Plain Chocolate, Milk-Chocolate, Peanut Milk-Chocolate, Almond Chocolate, Vanilla Chocolate, Cocoa, Malted-Milk Cocoa, Milk-Chocolate Dainties, Vanilla-Chocolate Dainties, Chocolate-Cream Peppermints, Candied Peanut-Crisp, Chocolate-Covered Molasses Cocoanut, Chocolate-Covered Molasses Candy, and Chocolate-Covered Crystal Sugar Bars.

Claims use since July 30, 1912.

Ser. No. 144,215. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Missouri Egg & Poultry Company, Sedalia, Mo. Filed Feb. 25, 1921.



The word "Standard" is disclaimed apart from the other features of the mark shown on the drawing.

Particular description of goods.—Dressed Poultry.

Claims use since on or about Jan. 15, 1921.

Ser. No. 144,439. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) United Turkey Red Company, Limited, Glasgow, Scotland. Filed Mar. 7, 1921.



No claim is made to the exclusive use of the word "Lomond."

Particular description of goods.—Laundry and Toilet Soap, Soap Powder, Saponaceous Flakes, and Washing-Crystals.

Claims use since June 17, 1920.

Ser. No. 144,262. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) David A. Beattie, Porterville, Calif. Filed Mar. 12, 1921.

SUNRIPE

Particular description of goods.—Fresh Citrus Fruit.

Claims use since Nov. 10, 1920.

Ser. No. 144,634. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) The Q. R. S. Music Company, Chicago, Ill. Filed Mar. 12, 1921.



Consists of the representation of a bird in flight.

Particular description of goods.—Perforated Note-Sheets for Player-Pianos.

Claims use since Jan. 20, 1921.

Ser. No. 144,790. (CLASS 39. CLOTHING.) James Thurmand Ross, Huntington, W. Va. Filed Mar. 15, 1921.

The Rose Shop

"THE SHOP OF YOUTH"

The lining appearing upon the drawing merely representing shading, and no claim being made to the exclusive use of the words "The Shop of Youth" apart from the mark as shown on the drawing.

Particular description of goods.—Women's and Children's Dresses, Coats, and Skirts and Women's and Misses' Suits, Fur Coats, and Scarfs.

Claims use since Mar. 3, 1921.

Ser. No. 144,792. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Oliver Wynne, Norfolk, Va. Filed Mar. 15, 1921.



Particular description of goods.—Lard Substitute Composed of Cotton-Seed Oil and other Ingredients.

Claims use since Dec. 28, 1920.

Ser. No. 144,828. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) Samuel G. Mandalian, North Attleboro, Mass. Filed Mar. 16, 1921.



Particular description of goods.—Chatelaine Bags and Purses and the Constituent Parts of the Same.

Claims use since March, 1917.

Ser. No. 145,087. (CLASS 39. CLOTHING.) J. H. Sumel & Co., New York, N. Y. Filed Mar. 22, 1921.

MOHAWK MILLS



Particular description of goods.—Men's, Women's, Children's, and Infants' Hosiery.

Claims use since July 12, 1906.

Ser. No. 145,284. (CLASS 15. OILS AND GREASES.) The Norton Company, Inc., Jersey City, N. J. Filed Mar. 26, 1921.

Gmdo Lights

The exclusive right to the word "Lights" as shown in the drawing is hereby disclaimed.

Particular description of goods.—Candles.

Claims use since June 15, 1920.

Ser. No. 145,307. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Bridgeville Packing Association, Bridgeville, Del. Filed Mar. 28, 1921.



No claim being made to the words "Bridgeville, Delaware" apart from the other features of the mark.

Particular description of goods.—Apples, Peaches, Pears, Cantaloups, Cucumbers, Squash, Sweet Potatoes, White Potatoes, Strawberries, Raspberries, and Blackberries, in Their Natural State, Canned, and Dried.

Claims use since July 6, 1920.

Ser. No. 145,487. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) Clark Pneumatic Action Co., Milwaukee, Wis. Filed Mar. 30, 1921.

Auto-Namic

Particular description of goods.—Expression - Control Devices for Pneumatic Players.

Claims use since Apr. 15, 1920.

Ser. No. 145,454. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Hawaiian Pineapple Company, Ltd., Honolulu, Territory of Hawaii, and San Francisco, Calif. Filed Mar. 30, 1921.

SUMMER LAND

Particular description of goods.—Canned Pineapple.

Claims use since Feb. 8, 1921.

Ser. No. 145,468. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) Dominick S. Humphrey, New Orleans, La. Filed Mar. 30, 1921.

"U KNOW"

Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.

Claims use since Aug. 1, 1919.

Ser. No. 145,564. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Hawaiian Pineapple Company, Ltd., San Francisco, Calif. Filed Apr. 1, 1921.

HONEY DEW

Particular description of goods.—Canned Pineapple.

Claims use since Feb. 15, 1921.

Ser. No. 145,584. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) Polyphonwerke Aktien-Gesellschaft, Berlin, Germany. Filed Apr. 1, 1921.

POLYGRAPHON

Consists of the word "Polygraphon."

Particular description of goods.—Talking-Machines and Records.

Claims use since 1903.

Ser. No. 145,623. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE KODYTE LABORATORIES, New York, N. Y. Filed Apr. 2, 1921.

KODYTE

Particular description of goods.—Carbon-Removing Compound.
Claims use since Mar. 4, 1921.

Ser. No. 145,678. (CLASS 26. MUSICAL INSTRUMENTS AND SUPPLIES.) VIESI BROS., New York, N. Y. Filed Apr. 4, 1921.



Particular description of goods.—Musical Instruments, Particularly Pianos, Violins, Violas, Violoncellos, Guitars, Banjos, and Parts Thereof.
Claims use since about Nov. 1, 1920.

Ser. No. 145,856. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE PEABODY SCHOOL FURNITURE CO., North Manchester, Ind. Filed Apr. 7, 1921.



"Dogon" Good Chairs

No claim being made to the exclusive use of the words "Good Chairs" nor to the pictorial representation of a chair apart from the mark as shown on the drawing.
Particular description of goods.—Wood and Combination Wood and Metal Teachers' Chairs, Portable Folding Opera and Assembly Chairs, Movable Desk-Chairs, Revolving and Tilting Office and Desk Chairs, Straight-Back Chairs, Arm-Chairs, Removable Cane-Seat Chairs, and Portable Folding Kindergarten-Chairs.
Claims use since Mar. 29, 1921.

Ser. No. 145,949. (CLASS 26. MUSICAL INSTRUMENTS AND SUPPLIES.) THE JACKSON-GORDAN VIOLIN COMPANY, Columbus, Ohio. Filed Apr. 9, 1921.

MADE IN U.S.A.

The words "Made in U. S. A." are hereby disclaimed.
Particular description of goods.—Violins and Parts Thereof.
Claims use since Mar. 1, 1920.

Ser. No. 145,955. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE SHIELD SPINNING & PLATING CO., Baltimore, Md., assignee to Lyon Manufacturing Company, Inc., Baltimore, Md., a Corporation of Maryland. Filed Apr. 9, 1921.



No claim is made to the representation of a parking-lamp apart from the mark shown on the drawing.
Particular description of goods.—Electric Parking Lamps for Automobiles.
Claims use since Mar. 16, 1921.

Ser. No. 145,966. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) JOHN HARVEY ARNOLD, Princeton, N. J. Filed Apr. 11, 1921.

"ARNOLA"

Particular description of goods.—Instruments for Indicating the Sex of Human Beings and Animals and of the Embryos of Eggs.
Claims use since July 1, 1920.

Ser. No. 146,019. (CLASS 2. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) CAL HIRSCH & SONS MERCANTILE CO., St. Louis, Mo., and Los Angeles, Calif. Filed Apr. 11, 1921.

Hikerbag

Particular description of goods.—Knapsacks.
Claims use since Mar. 19, 1921.

Ser. No. 146,154. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN ZOLTOWSKI, Milwaukee, Wis. Filed Apr. 13, 1921.



John Zoltowski

Consists of facsimile of the photograph and signature of the applicant.
Particular description of goods.—Waterproofing Composition for Waterproofing Leather, Cloth, or Wood.
Claims use since March, 1921.

Ser. No. 146,166. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE CUNO ENGINEERING CORPORATION, Meriden, Conn. Filed Apr. 14, 1921.

CUNO

Particular description of goods.—Electric Lamps, Electric Starting Devices for Gas-Engines, Electric Ignition Devices for Gas-Engines, and Electric Cigar-Lighters.
Claims use since about Apr. 1, 1921.

Ser. No. 146,180. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MILES MANUFACTURING COMPANY, Los Angeles, Calif. Filed Apr. 14, 1921.

JELL-WELL

Particular description of goods.—A Compound of Sugar, Gelatin, and Fruit Acid, Artificially Colored and Flavored.
Claims use since April, 1920.

Ser. No. 146,189. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE STORAGE BATTERY & APPLIANCE CORPORATION, Philadelphia, Pa. Filed Apr. 14, 1921.

EUREKA
DEMOUNTABLE

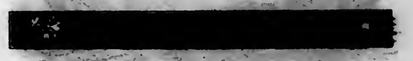
No claim is made to the word "Demountable" apart from the other features of the mark.
Particular description of goods.—Storage Batteries.
Claims use since December, 1920.

Ser. No. 146,207. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) DIADEM MFG. CO., Fitchburg, Mass. Filed Apr. 15, 1921.

DIADEM

Particular description of goods.—Combs, Barrettes, Fancy Pins for the Hair, Hairpins, Knitting-Needles, Knitting-Pins, Crochet-Hooks, Fans for Personal Use, Yarn-Holders, Stitch-Holders, Hair Ornaments of Steel, Wood, Leather, Rubber, and Pyroxylin and Substitutes Therefor.
Claims use since about 1907.

Ser. No. 146,250. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE COSMORAMIC PICTURES CORPORATION, Dover, Del., and New York, N. Y. Filed Apr. 16, 1921.



No claim is made to the exclusive use of the word "Pictures" apart from the mark shown in the drawing.
Particular description of goods.—Motion-Picture Films.
Claims use since Apr. 7, 1921.

Ser. No. 146,276. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STROMMEYER & ARPE COMPANY, New York, N. Y. Filed Apr. 16, 1921.

CAIALUNA

Particular description of goods.—Vegetable Oil and Mayonnaise and Salad-Oil of Which Cotton-Seed Oil Forms a Component Part.
Claims use since February, 1920.

Ser. No. 146,329. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PENETRO CHEMICAL COMPANY, Atlantic City, N. J., and Philadelphia, Pa. Filed Apr. 18, 1921.

PENETRO

Particular description of goods.—A Mouth-Wash.
Claims use since June 15, 1920.

Ser. No. 146,351. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ADOLPH BLAICH, INC., San Francisco, Calif. Filed Apr. 20, 1921. Under ten-year proviso.

J. S. HÖLLER & CO.

ARROW

Particular description of goods.—Pocket-Knives, Scissors, Pruning-Shears, Razors, Shears, Butcher-Knives.
Claims use since Jan. 1, 1880.

Ser. No. 146,406. (CLASS 39. CLOTHING.) MARLON J. WEST, McAllen, Tex. Filed Apr. 19, 1921.



Particular description of goods.—Women's Hats.
Claims use since Mar. 1, 1921.

Ser. No. 146,434. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) HARTMANN TRUNK CO., Racine, Wis. Filed Apr. 20, 1921.

CASTLE-GRANDE

Particular description of goods.—Trunks.
Claims use since Dec. 6, 1920.

Ser. No. 146,486. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JESSE N. HOYT, Delaware, Ohio. Filed Apr. 21, 1921.

"K-O-D"

Particular description of goods.—A Powder for General Household Cleaning Purposes Having Incidental Water-Softening Properties.
Claims use since Feb. 26, 1921.

Ser. No. 146,546. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GLOBE COTTON OIL MILLS, Los Angeles, Calif. Filed Apr. 22, 1921.



No claim is made to the exclusive use of the word "Oil" apart from the mark shown on the drawing.
Particular description of goods.—Salad and Cooking Oil Made from Cotton-Seed.
Claims use since Feb. 1, 1921.

Ser. No. 146,552. (CLASS 39. CLOTHING.) J. T. HARDEMAN HAT CO., Seattle, Wash. Filed Apr. 22, 1921.



Particular description of goods.—Hats and Caps for Men.
Claims use since Feb. 10, 1912, on caps; since Feb. 10, 1904, on hats.

Ser. No. 146,586. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) JULIAN OLLENDORFF, Brooklyn, N. Y. Filed Apr. 22, 1921.

Sketchograf

Particular description of goods.—Motion-Picture Films Showing Sketches, Drawings, and Photographs.
Claims use since Aug. 15, 1920.

Ser. No. 146,593. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RUSSELL & GILBERT CO., Portland, Oreg. Filed Apr. 22, 1921.

Rosarian

Particular description of goods.—Candy.
Claims use since Oct. 27, 1917.

Ser. No. 146,628. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) J. P. EUSTIS MANUFACTURING COMPANY, Cambridge, Mass. Filed Apr. 23, 1921.

PALESTRINA

Particular description of goods.—Player-Pianos and Player Attachments for Such or Similarly Keyed Musical Instruments and Parts Thereof.
Claims use since Mar. 8, 1921.

Ser. No. 146,667. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ABRAHAM SERIL, New York, N. Y. Filed Apr. 23, 1921.

GOTHAM

Consisting of the word "Gotham."
Particular description of goods.—Cambrics, Muslins, Lawns, Pongees, Nainsook, Organdies, Jeans, Voiles, Gabardines, Percales, Piques, Satins, and Twills in the Piece.
Claims use since Mar. 16, 1920.

Ser. No. 146,690. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CURTISS CANDY CO., Chicago, Ill. Filed Apr. 25, 1921.

BIG BITE

Particular description of goods.—Chocolate-Coated Peanut-Candy Having a Marshmallow Center.
Claims use since Mar. 15, 1918.

Ser. No. 146,698. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) HENRY L. DE ZENG, Camden, N. J. Filed Apr. 25, 1921.

PHOROPTOR

Particular description of goods.—Eye-Testing Instruments for Testing the Refractive Media and Motor Muscles of the Eye.
Claims use since Mar. 1, 1921.

Ser. No. 146,733. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SMILE COMPANY, Topeka, Kans. Filed Apr. 25, 1921.

SMILE

Particular description of goods.—Roasted Coffee.
Claims use since about Feb. 2, 1921.

Ser. No. 146,746. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SENECA CAMERA MANUFACTURING COMPANY, Rochester, N. Y. Filed Apr. 25, 1921.

SEN-X

Particular description of goods.—Photographic Film.
Claims use since Apr. 12, 1921.

Ser. No. 146,757. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) CLAYTON-WRIGHT LTD., Birmingham, England. Filed Apr. 26, 1921.

CLAYRITE

Particular description of goods.—Bulb-Horns and Mechanical Horns.
Claims use since June 7, 1919.

Ser. No. 146,786. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN GROCERS SOCIETY, INC., Newark, N. J. Filed Apr. 27, 1923.

ArGoSy

Particular description of goods.—Tea and Coffee.
Claims use since Nov. 4, 1920.

Ser. No. 146,818. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) M. DIAMOND & CO., INC., New York, N. Y. Filed Apr. 27, 1921.

THE FOUR LEAF CLOVER BAG

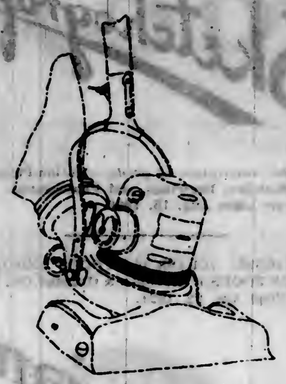
No claim being made to the exclusive use of the word "Bag" apart from the mark as shown on the drawing.
Particular description of goods.—Ladies' Handbags.
Claims use since Apr. 22, 1921.

Ser. No. 146,821. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GRANGER & CO., Buffalo, N. Y. Filed Apr. 27, 1921.

Lafayette

Particular description of goods.—Coffee.
Claims use since October, 1899.

Ser. No. 146,824. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE UNITED ELECTRIC COMPANY, Canton, Ohio. Filed Apr. 27, 1921.



Consisting in a red band around the paster-casing. The drawing is lined to indicate such red band, no claim being made to the representation of a suction-cleaner appearing in the drawing.
Particular description of goods.—Electric Suction-Cleaners.
Claims use since 1918.

Ser. No. 146,865. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BRYANT ZINC COMPANY, Chicago, Ill. Filed Apr. 28, 1921.

AUTO OF FLAG

Particular description of goods.—Electric Highway-Crossing Signals.
Claims use since on or about Mar. 14, 1914.

Ser. No. 146,938. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOUIS A. STEINMETZ, Brooklyn, N. Y. Filed Apr. 28, 1921.

TRADE MARK Evol

No claim being made to the words "Trade Mark" appearing on the drawing apart from the mark as shown.
Particular description of goods.—Hair-Tonic.
Claims use since Oct. 1, 1920.

Ser. No. 147,005. (CLASS 39. CLOTHING.) BROOKS & CO. INC., Boston, Mass. Filed Apr. 30, 1921.

B&C INC. SERVICE

No claim is made to the exclusive use of the word "Service" apart from the mark as shown.
Particular description of goods.—Shoe Parts—Namely, Rubber Heels.
Claims use since Apr. 13, 1921.

Ser. No. 147,043. (CLASS 39. CLOTHING.) OPPENHEIM, OBERNDORF & CO., INC., Baltimore, Md. Filed Apr. 30, 1921.

Princess Bloomerette

Consisting of the words "Princess Bloomerette," no claim being made to the exclusive use of the word "Bloomerette" apart from the mark as shown on the drawing.
Particular description of goods.—Children's Bloomers.
Claims use since Oct. 20, 1919.

Ser. No. 147,115. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) MIGHTYBONE CORPORATION OF NEW YORK, New York, N. Y. Filed May 2, 1921.

BLACKFLEX

Particular description of goods.—Boning, Steels, and Staying Materials for Corsets or other Wearing-Apparel.
Claims use since Feb. 24, 1920.

Ser. No. 147,124. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio. Filed May 2, 1921.

TAXITE

Particular description of goods.—A Preparation for the Removal of Paints, Finishes, Enamels, Japans, Varnishes, Stains, Lacquers, Shellacs, Driers, Primers, and Fillers for Wood, Metal, and other Surfaces.
Claims use since Apr. 14, 1904.

Ser. No. 147,141. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THEODORE B. WAGNER, Brooklyn, N. Y. Filed May 2, 1921.

VITAFOOD

Particular description of goods.—Cereal Breakfast Foods and Specially-Prepared Foods Intended Primarily for Infants and Invalids.
Claims use since Aug. 12, 1920.

Ser. No. 147,143. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WEBER FLOUR MILLS CORPORATION, Salina, Kans. Filed May 2, 1921.

Salina's

Exclusive use of the words "Salina's Best" being disclaimed apart from the mark shown.
Particular description of goods.—Wheat-Flour.
Claims use since July 8, 1918.

Ser. No. 147,210. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAX ROBINS, Chicago, Ill. Filed May 4, 1921.



The drawing is lined for the colors red, yellow, and green.

Particular description of goods.—Face-Powder.
Claims use since Apr. 15, 1921.

Ser. No. 147,237. (CLASS 38. PRINTS AND PUBLICATIONS.) REUBEN L. GOLDBERG, New York, N. Y. Filed May 5, 1921.

Boob McNutt

Particular description of goods.—Series of Cartoons.
Claims use since June, 1918.

Ser. No. 147,338. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ROBERT J. BYINGTON, San Francisco, Calif. Filed May 7, 1921.

THE SIGN "BY" OF SERVICE

No claim is made to the words "The Sign of Service" apart from the mark as shown in the drawing.

Particular description of goods.—Electric-Lighting Fixtures, Electric Sadirons, and Electric Batteries.
Claims use since August, 1917.

Ser. No. 147,364. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN MORRELL & COMPANY, Ottumwa, Iowa. Filed May 7, 1921.

SNOW CAP

Particular description of goods.—Lard.
Claims use since January, 1900.

Ser. No. 147,424. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAWAIIAN PINEAPPLE COMPANY, LTD., San Francisco, Calif., and Honolulu, Territory of Hawaii. Filed May 9, 1921.

DISCOVERY

Particular description of goods.—Canned Pineapple.
Claims use since Feb. 15, 1921.

Ser. No. 147,425. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAWAIIAN PINEAPPLE COMPANY, LTD., San Francisco, Calif., and Honolulu, Territory of Hawaii. Filed May 9, 1921.

TREASURE ISLAND

Particular description of goods.—Canned Pineapple.
Claims use since Feb. 15, 1921.

Ser. No. 147,428. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) CURT KUENTZEL, Akron, Ohio. Filed May 9, 1921.

CENTIPEDE

Comprising the word "Centipede."

Particular description of goods.—Tire-Protecting and Skid-Preventing Devices.
Claims use since Mar. 1, 1921.

Ser. No. 147,451. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OREGON GROWERS COOPERATIVE ASSN., Salem, Oreg. Filed May 9, 1921.

Mistland

Particular description of goods.—Fresh Deciduous Fruits and Dried Deciduous Fruits.
Claims use since July 9, 1920.

Ser. No. 147,475. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) L. K. SMALL COMPANY, Los Angeles, Calif. Filed May 9, 1921.

BUDDY



The picture therein being fanciful.

Particular description of goods.—Fresh Citrus Fruits, Fresh Deciduous Fruits, and Fresh Vegetables, Also Fresh Grapes.
Claims use since Jan. 15, 1920.

Ser. No. 147,787. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) HERBERT D. LAFFERTY, Chicago, Ill. Filed May 16, 1921.

DALICO

Particular description of goods.—Timers for Internal-Combustion Engines.
Claims use since Mar. 29, 1921.

Ser. No. 147,869. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) EDUCATIONAL FILMS CORPORATION OF AMERICA, New York, N. Y. Filed May 18, 1921.



THE SPICE OF THE PROGRAM

Particular description of goods.—Motion-Pictures.
Claims use since Dec. 20, 1920.

Ser. No. 147,883. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) LEHMAN MFG. CO., Cannelton, Ind. Filed May 18, 1921.

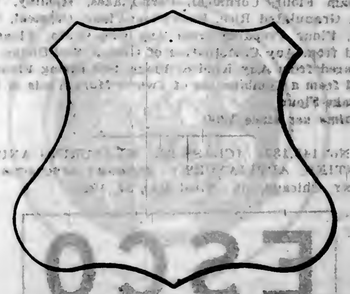
LAMCO

ESTABLISHED 1876

The words "Established in 1876" are disclaimed apart from the mark as shown.

Particular description of goods.—Automobile-Bodies.
Claims use since Apr. 1, 1916.

Ser. No. 147,884. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MCKENNA BRASS AND MANUFACTURING CO. INC., Pittsburgh, Pa. Filed May 18, 1921.



Particular description of goods.—Bottle-Washing, Bottle-Filling, Bottle-Soaking, Bottle-Capping, Bottle-Corking Machines, Carbonating-Machines, Fruit-Washing, Fruit-Packing, and Fruit-Canning Machinery.
Claims use since about February, 1900.

Ser. No. 147,942. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE ROOT COMPANY, Bristol, Conn. Filed May 19, 1921.

ROOT

Particular description of goods.—Counting-Machines.
Claims use since June, 1919.

Ser. No. 147,957. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) A. FINKL & SONS CO., Chicago, Ill. Filed May 20, 1921.

DURODI

Particular description of goods.—Steel Dies Used in Punch-Presses and Analogous Machines for Stamping Metal Products.
Claims use since Apr. 5, 1921.

Ser. No. 147,858. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HECKERS-JONES-JEWELL MILLING COMPANY, New York, N. Y. Filed May 20, 1921.



The lining indicates red.

Particular description of goods.—Wheat-Flour, Whole-Wheat-Flour, Graham-Flour, Farina, Red-Dog Flour, Fancy Flour-Middlings, Middlings, Bran, Rye-Flour, Rye Graham Flour, Cornmeal, Corn-Flakes, Hominy, Whole Rice, Granulated Rice, Buckwheat-Flour, Oatmeal, Rolled Oats, Flour Prepared from Any One Grain, Flour Prepared from Any Combination of Grains, Self-Rising Flour Prepared from Any Kind of Flour, Self-Rising Flour Prepared from a Combination of Two or More Kinds of Flour, Pancake-Flour.

Claims use since 1880.

Ser. No. 148,127. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ECONOMY SPECTACLE COMPANY, Chicago, Ill. Filed May 24, 1921.

ESCO

Particular description of goods.—Spectacles, Eyeglasses, Ophthalmic Lenses, and Frames Therefor.

Claims use since Feb. 14, 1921.

Ser. No. 148,148. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INDIANAPOLIS CANNING CO., Chicago, Ill. Filed May 24, 1921.

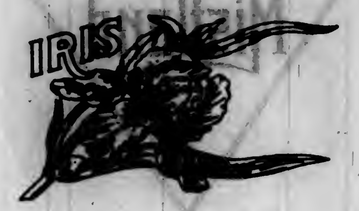
MEADOWLARK



Particular description of goods.—Canned Vegetables.

Claims use since Dec. 21, 1911.

Ser. No. 148,162. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) R. KRASNOW & SONS, INC., Pittsburgh, Pa. Filed May 24, 1921.



Particular description of goods.—Cantaloupe and Fruit Grapes.

Claims use since Apr. 1, 1921.

Ser. No. 148,163. (CLASS 18. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) JACOB PANTOSKEY, San Francisco, Calif. Filed May 24, 1921.



Particular description of goods.—Iron and Steel Pipe-Fittings.

Claims use since Mar. 17, 1921.

Ser. No. 148,166. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RIDENOUR-BAKER GROCERY COMPANY, Kansas City, Mo. Filed May 24, 1921.

CUPID

Particular description of goods.—Coffee.

Claims use since June, 1896.

Ser. No. 148,220. (CLASS 12. CONSTRUCTION MATERIALS.) THE FLEXSTONE FLOORING COMPANY, Columbus, Ohio. Filed May 25, 1921.

PLASTIC FLEXSTONE FLOORING

No claim is made to the words "Plastic Flooring" apart from the mark shown on the drawing.

Particular description of goods.—Composition Flooring.

Claims use since June 6, 1914.

Ser. No. 148,234. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WINCHESTER REPEATING ARMS CO., New Haven, Conn. Filed May 25, 1921.

WINCHESTER

Particular description of goods.—Flashlights and Electric Batteries.

Claims use since May 15, 1920.

Ser. No. 148,238. (CLASS 18. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE CLEVELAND BRASS MANUFACTURING CO., Cleveland, Ohio. Filed May 25, 1921.

WASTOP

Particular description of goods.—Valves, Cocks, Bibs, and Pipe Connectors.

Claims use since on or about Apr. 15, 1916.

Ser. No. 148,259. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del. Filed May 26, 1921.

DU PONT

Particular description of goods.—Dyestuff Intermediates.

Claims use since November, 1914.

Ser. No. 148,289. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MORTON SUNDOUR FABRICS LTD., Dentonhill, Carlisle, England. Filed May 27, 1921.

SUNDOUR

Particular description of goods.—Cotton Piece Goods.

Claims use since 1916.

Ser. No. 148,346. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) H. T. PAISTE COMPANY, Philadelphia, Pa. Filed May 27, 1921.

RAY-O-LITE

Particular description of goods.—Luminous Pendants Adapted to be Attached to Any Object That it may be Desired to Locate in the Dark.

Claims use since Mar. 15, 1921.

Ser. No. 148,359. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) YOUNG & GRIFFITH COFFEE CO., INC., New York, N. Y. Filed May 27, 1921.

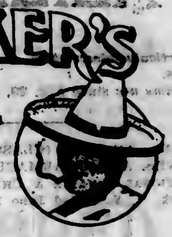


Particular description of goods.—Coffee.

Claims use since 1906.

Ser. No. 148,416. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALKER PROPERTIES ASSOCIATION, Austin, Tex. Filed May 28, 1921.

WALKER'S RED HOT



No claim is made to the exclusive right to the use of the words "Red Hot" apart from the mark shown in the drawing.

Particular description of goods.—Canned Chilli-con-Carne and Canned Hot Tamales.

Claims use since 1908.

Ser. No. 148,422. (CLASS 22. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE C. O. BARTLETT & SNOW COMPANY, Cleveland, Ohio. Filed May 31, 1921.

TRIUMPH

Particular description of goods.—Crushers for Crushing Coal, Corn, and Cobs and Like Materials; Paint-Mills; Paint-Mixers; Driers for Drying Grain, Tankage, and Like Materials, and Corn-Shellers.
Claims use since 1906.

Ser. No. 148,466. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VITAMINE FOOD PRODUCTS COMPANY, Chicago, Ill. Filed May 31, 1921.



No claim is made to the descriptive advertising phrase "All the Vitamines, The Soul of Food" apart from the other features of the mark shown in the drawing.
Particular description of goods.—Food Products—Namely, Yeast and Artificial Foods Containing Yeast, and Milk and Artificial Foods Containing Milk.
Claims use since May 14, 1921.

Ser. No. 148,503. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INC., New York, N. Y. Filed June 1, 1921.

ALIZAROL

Particular description of goods.—Dyes, Dyestuffs, and Colors.
Claims use since Apr. 29, 1909.

Ser. No. 148,504. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INC., New York, N. Y. Filed June 1, 1921.

FLAMINE

Particular description of goods.—Dyes, Dyestuffs, and Colors.
Claims use since May 6, 1910.

Ser. No. 148,505. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INC., New York, N. Y. Filed June 1, 1921.

AZOGRAPHIC

Particular description of goods.—Dyes, Dyestuffs, and Colors.
Claims use since May 16, 1919.

Ser. No. 148,506. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INC., New York, N. Y. Filed June 1, 1921.

DUROL

Particular description of goods.—Dyes, Dyestuffs, and Colors.
Claims use since Nov. 17, 1917.

Ser. No. 148,507. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INC., New York, N. Y. Filed June 1, 1921.

CARBANTHRENE

Particular description of goods.—Dyes, Dyestuffs, and Colors.
Claims use since Oct. 22, 1918.

Ser. No. 148,508. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INC., New York, N. Y. Filed June 1, 1921.

ALPHAZURINE

Particular description of goods.—Dyes, Dyestuffs, and Colors.
Claims use since Apr. 25, 1919.

Ser. No. 148,535. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) CLAUS AUTOMATIC GAS COCK CO., Milwaukee, Wis. Filed June 2, 1921.

THERMOLATOR

Particular description of goods.—Oven-Temperature Regulators.
Claims use since about December, 1920.

Ser. No. 148,551. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. D. RIEDEL, AKTIENGESELLSCHAFT, Berlin-Britz, Germany. Filed June 2, 1921.

Cyarsal

Particular description of goods.—Potash Salt of the Cyan-Mercury-Salicylic Acid.
Claims use since Apr. 20, 1920.

Ser. No. 148,557. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) RINKER-DEAS PAINT CO., Augusta, Ga. Filed June 2, 1921.



Particular description of goods.—Paints, Dry, Ready Mixed, and in Paste Form.
Claims use since 1910.

Ser. No. 148,588. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) R. Y. FOLEY, Fresno, Calif. Filed June 3, 1921.

Foley's SHAMROCK

Particular description of goods.—Fresh Grapes, Dried Fruits, and Fresh Deciduous Fruits.
Claims use since July 1, 1910.

Ser. No. 148,590. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ADOLPH NELSON GAMBLER, St. Louis, Mo. Filed June 3, 1921.



Particular description of goods.—Laxative Pills.
Claims use since Apr. 21, 1921.

Ser. No. 148,591. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GALLOWAY-WEST COMPANY, Fond du Lac, Wis. Filed June 3, 1921.



FONDA

The children represented in the drawing are fanciful.
Particular description of goods.—Evaporated Milk.
Claims use since Mar. 12, 1921.

Ser. No. 148,631. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILKES & SHAMAN CO., Louisville, Ky. Filed June 3, 1921.

EUREKA

Particular description of goods.—Baking-Powder.
Claims use since March, 1921.

Ser. No. 148,633. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WESTERN CHEMICAL COMPANY, INC., Red Field S. D., and Hutchinson, Minn. Filed June 3, 1921.

IODO-LAV

Particular description of goods.—Antiseptic Solution.
Claims use since Dec. 1, 1919.

Ser. No. 148,635. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed June 3, 1921.

VITABRED

Particular description of goods.—Bread.
Claims use since May 17, 1921.

Ser. No. 148,668. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NEW YORK QUEBRACHO EXTRACT COMPANY, New York, N. Y. Filed June 4, 1921.

MYREX

Particular description of goods.—Tanning Extracts.
Claims use since on or about May 7, 1921.

Ser. No. 148,669. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NEW YORK QUEBRACHO EXTRACT COMPANY, New York, N. Y. Filed June 4, 1921.

QUATEX

Particular description of goods.—Tanning Extracts.
Claims use since on or about Apr. 26, 1921.

Ser. No. 148,670. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NEW YORK QUEBRACHO EXTRACT COMPANY, New York, N. Y. Filed June 4, 1921.

CHEMEX

Particular description of goods.—Tanning Extracts.
Claims use since on or about May 7, 1921.

Ser. No. 148,671. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOLON PALMER, New York, N. Y. Filed June 4, 1921.

MASKUM

Consisting of the word "Maskum."
Particular description of goods.—Hair-Dye.
Claims use since May 28, 1921.

Ser. No. 148,710. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA CONSERVING CO., San Francisco, Calif. Filed June 6, 1921.

CALIFORNIA HOME

No claim is made to the word "Brand" apart from the other features of the mark shown on the drawing.
Particular description of goods.—Mustard, Sardines, Vinegar, Canned Vegetables, Pickles, Chow-Chow, Sweet Relish, Chilli Sauce, Catsup, Sauer-Kraut, Spaghetti, Baked Beans, Apple-Butter, Peanut-Butter, Jelly, and Jam.
Claims use since Jan. 1, 1903.

Ser. No. 148,720. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE EXCHANGE ORANGE PRODUCTS COMPANY, San Dimas, Calif. Filed June 6, 1921.

KILL-HOPPER

Particular description of goods.—Insect-Poison.
Claims use since Mar. 1, 1921.

Ser. No. 148,730. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEPH SAUL GROSS, Los Angeles, Calif. Filed June 6, 1921.



The pictorial representation of a girl shown in the drawing is fanciful.
Particular description of goods.—Honey.
Claims use since Mar. 6, 1921.

Ser. No. 148,736. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THOMAS W. C. HARTMANN, Philadelphia, Pa. Filed June 6, 1921.

WONDER

Particular description of goods.—Vehicle-Springs.
Claims use since May 12, 1921.

Ser. No. 148,740. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) MARSH MOTOR CAR COMPANY, Cleveland, Ohio. Filed June 6, 1921.

MARSH

Particular description of goods.—Passenger-Automobiles.
Claims use since Dec. 26, 1919.

Ser. No. 148,764. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROBERTSON CANDY CO., New York, N. Y. Filed June 6, 1921.



No claim being made to the slogan "Made on Honor Sold on Merit" apart from the mark as shown.
Particular description of goods.—Fruit Tablets and other Candies.
Claims use since 1909.

Ser. No. 148,773. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TAGGART BAKING COMPANY, Indianapolis, Ind. Filed June 6, 1921.



The pictorial representation of a child shown in the drawing is fanciful. No claim is made to the exclusive use of the word "Bread" apart from the mark shown in the drawing.
Particular description of goods.—Bread.
Claims use since May 1, 1921.

Ser. No. 148,792. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BEECH CHEMICAL COMPANY, Greenville, Pa. Filed June 7, 1921.

BEECHCO-VAPOREX

Particular description of goods.—A Healing-Ointment for Treatment of Colds, Croup, and Inflammation.
Claims use since July, 1920.

Ser. No. 148,811. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GILBERT J. NOVAK, Philadelphia, Pa. Filed June 7, 1921.

Rhu-Peps

Particular description of goods.—A Preparation for Indigestion, Constipation, Bad Breath, After-Dinner Drowsiness, Sickness of Stomach and Distress from Over-Eating and Improper Food.
Claims use since on or about Jan. 1, 1921.

Ser. No. 148,816. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE RED FOX COMPANY, Providence, R. I. Filed June 7, 1921.



No claim being made to the representation of a bottle apart from the trade-mark shown.
Particular description of goods.—Ginger-Ale.
Claims use since May 19, 1920.

Ser. No. 148,836. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD F. GREER, Vandalia, Ill. Filed June 8, 1921.



Particular description of goods.—A Preparation for the Treatment of Pyorrhea.
Claims use since June, 1919.

Ser. No. 148,849. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PACIFIC METAL BEARING COMPANY, San Francisco, Calif. Filed June 8, 1921.

PMB QUALITY

No claim is made to the exclusive use of the representation of a bearing and the word "Quality" apart from the mark shown.

Particular description of goods.—Journal-Bearings.

Claims use since Aug. 18, 1920.

Ser. No. 148,855. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES T. STORK, Buffalo and New York, N. Y. Filed June 8, 1921.

NOVADELOX

Particular description of goods.—Chemicals Having Oxidizing Properties, Including Hydrogen Peroxid, Metal Peroxids, Salts of Metal Peroxids, Peracids, Esters of Peracids, Metal Salts of Peracids, Organic Peroxids, Organic-Peroxid Compounds, Inorganic-Peroxid Compounds, and Derivatives of the Above-Named Substances.

Claims use since May 15, 1921.

Ser. No. 148,874. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM C. DILLMAN, New York, N. Y. Filed June 9, 1921.

ADORISSIMA

Consisting of the word "Adorissima."

Particular description of goods.—Face-Powder.

Claims use since Jan. 1, 1921.

Ser. No. 148,877. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDGAR-MORGAN CO., Memphis, Tenn. Filed June 9, 1921.

HAPPY

Particular description of goods.—Mixed Feeds Used for Domestic Animals and Poultry.

Claims use since Jan. 12, 1916.

Ser. No. 148,902. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHARLES L. PAINE, Indianapolis, Ind. Filed June 9, 1921.

EAT'EM HOT

"Eat 'Em Hot."

Particular description of goods.—Vending-Machines Provided with Means for Keeping the Contents Hot.

Claims use since about June 1, 1921.

Ser. No. 148,923. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COMER, FETTERLY & COMPANY, Union Hill, N. J. Filed June 10, 1921.

ORCHIZYL

Particular description of goods.—A Pharmaceutical Preparation, Being an Association of Animal-Gland Substances for Administering in Testicular Insufficiency.

Claims use since May 2, 1921.

Ser. No. 149,084. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEPH M. KNIGHT, Elfers, Fla. Filed June 13, 1921.

STAYSOUND

The drawing is lined to indicate a red color.

Particular description of goods.—Fresh Oranges, Grapefruit, Lemons, Limes, and All Citrus Fruits.

Claims use since May 1, 1913.

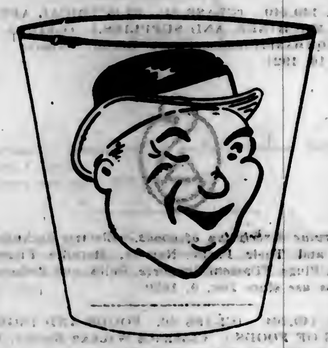
Ser. No. 149,105. (CLASS 16. PAINT AND PAINTERS' MATERIALS.) SUP-R-LAC PRODUCTS CO., Independence, Mo. Filed June 13, 1921.

SUP-R-LAC

Particular description of goods.—Paint and Oils Respectively, Namely,—Varnishes, Varnish-Stain, Cement Putty, Paints in Liquid Form, Linseed-Oil, Dry Colors, Color-Varnishes, Paints in Paste Form, Lead in Oil.

Claims use since on or about May 1, 1920.

Ser. No. 149,130. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) FRANK M. FLEISCHER, Pittsburgh, Pa. Filed June 14, 1921.



The lining on the mouth in the drawing indicates red.

Particular description of goods.—Non-Alcoholic Malt-less Beverage Sold as a Soft Drink and Flavoring for Same.

Claims use since Nov. 30, 1920.

Ser. No. 149,150. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SHIP OWNERS RADIO SERVICE, INC., New York, N. Y. Filed June 14, 1921.

SORSINC

Particular description of goods.—Cell-Batteries, Storage Batteries, Switches, Switch-Panels, Amateur Radio Apparatus, Commercial Radio Apparatus, Telephone Apparatus, Telegraph Apparatus, Electric Air-Heating Apparatus, Auxiliary Gas-Engine Generating Sets, and Electric Rivet-Heaters.

Claims use since Feb. 1, 1921.

Ser. No. 149,172. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CALCO CHEMICAL COMPANY, Boundbrook, N. J. Filed June 15, 1921.

Synadren

Particular description of goods.—Pharmaceutical Preparation, Being a Synthetic Product Identical with the Active Principle of Adrenal Glands.

Claims use since May 28, 1921.

Ser. No. 149,181. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. H. GRAVES, Pittsburg, Kans. Filed June 15, 1921.

Alkamint

Particular description of goods.—Preparation for Use as a Mouth-Cleanser.

Claims use since June 6, 1921.

Ser. No. 149,186. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) INSECTO MANUFACTURING CO., Cedar Grove, La. Filed June 15, 1921.

DIXIE DRN

Particular description of goods.—Insecticide.

Claims use since Feb. 2, 1920.

Ser. No. 149,191. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES E. KIESLING, Canton, Ohio. Filed June 15, 1921.

HEDRELEF



Particular description of goods.—Medicinal Tablets for Headache, Neuralgia, Colds, La Grippe, Aches, and Pains.

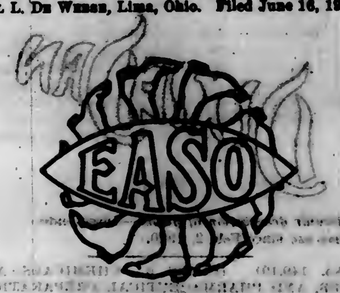
Claims use since May 30, 1921.

Ser. No. 149,201. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE PLUME & ATWOOD MFG. COMPANY, Waterbury, Conn. Filed June 15, 1921.



Particular description of goods.—Straight and Safety Pins.
Claims use since May 31, 1921.

Ser. No. 149,215. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PAUL L. DE WEESE, Lima, Ohio. Filed June 16, 1921.



Particular description of goods.—Medicated Foot-Powder.
Claims use since July, 1920.

Ser. No. 149,222. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. FILIPOWICZ & CO., Baltimore, Md. Filed June 16, 1921.

J. Filipowicz & Co

Particular description of goods.—A Remedy for the Treatment of Rheumatism, Headache, Neuralgia, and Grippe.
Claims use since on or about July 1, 1920.

Ser. No. 149,230. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) HOME ELECTRIC LIGHTING COMPANY, East Orange, N. J. Filed June 16, 1921.

HOMELITE

Particular description of goods.—Electric Generating Plants.
Claims use since July [illegible], 1920.

Ser. No. 149,238. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATHEN & CIE LABORATOIRES, CAHON, Courbevoie, France. Filed June 16, 1921.

D'ONGE

Particular description of goods.—Tooth-Paste, Cold-Cream, Complexion-Powder, Talcum Powder, Shampoo-Powder.
Claims use since Sept. 21, 1920.

Ser. No. 149,240. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) OSRAM G. M. B. H., KOMMANDITGESELLSCHAFT, Berlin, Germany. Filed June 16, 1921.



Particular description of goods.—Electric Incandescent Lamps and Their Parts—Namely, Metallic Filaments, Sockets, Plugs, Filament-Supports, Bulbs, and Reflectors.
Claims use since Dec. 9, 1920.

Ser. No. 149,264. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLARENCE WALKER BROWN, Philadelphia, Pa. Filed June 17, 1921.

RASCALS

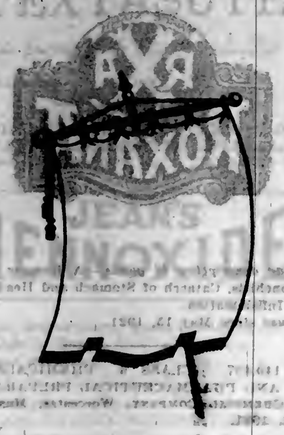
Particular description of goods.—Candies.
Claims use since Jan. 1, 1920.

Ser. No. 149,307. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WORCESTER SALT CO., Silver Springs and New York, N. Y. Filed June 17, 1921. Under ten-year proviso.

WORCESTER

Particular description of goods.—Common Salt—*i. e.*, Sodium Chlorid.
Claims use since Feb. 15, 1889.

Ser. No. 149,308. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WORCESTER SALT CO., Silver Springs and New York, N. Y. Filed June 17, 1921.



Particular description of goods.—Common Salt—*i. e.*, Sodium Chlorid.
Claims use since Feb. 15, 1889.

Ser. No. 149,318. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE COLORADO MILLING & ELEVATOR COMPANY, Denver and Eaton, Colo. Filed June 18, 1921.

RESOLUTE



Particular description of goods.—Wheat-Flour.
Claims use since Mar. 8, 1921.

Ser. No. 149,336. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARGARET JESSALYN LINDSEY, Muncie, Ind. Filed June 18, 1921.



Particular description of goods.—Face Lotion and Beautifier.
Claims use since Jan. 1, 1921.

Ser. No. 149,347. (CLASS 48. KNITTED, NETTED, AND TEXTILE FABRICS.) ORIGINAL HAIR NET COMPANY, Chicago, Ill. Filed June 18, 1921.

MELBA



The picture of the girl shown on the drawing is merely fanciful, no claim being made for the word "Melba" apart from it shown on the drawing.
Particular description of goods.—Hair-Nets.
Claims use since June 2, 1921.

Ser. No. 149,350. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE FRANK R. PRINA CORPORATION, New York, N. Y. Filed June 18, 1921.

FORTISSIMO

Particular description of goods.—Wheat-Flour.
Claims use since June, 1920.

Ser. No. 149,351. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE FRANK R. PRINA CORPORATION, New York, N. Y. Filed June 18, 1921.

SEAL of AMERICA

Particular description of goods.—Wheat-Flour.
Claims use since April, 1916.

Ser. No. 149,356. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROCKLAND MILLING COMPANY, Belleville, Ill. Filed June 18, 1921.

RIMCO

Particular description of goods.—Hen Feed, Chick Feed, Laying-Mash, and Cornmeal.
Claims use since Oct. 18, 1920.

Ser. No. 149,379. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE BRYANT ELECTRIC COMPANY, Bridgeport, Conn. Filed June 20, 1921.

Wrinklet

Particular description of goods.—Electric Lamp Sockets and Switches and Parts Thereof.
Claims use since February, 1913.

Ser. No. 149,385. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COLUMBIA FLOUR MILLS, Pendleton, Oreg. Filed June 20, 1921.

HIDO

Particular description of goods.—Wheat-Flour.
Claims use since Nov. 1, 1920.

Ser. No. 149,394. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROZANA FILKINS, Traverse City, Mich. Filed June 20, 1921.

RXA ROXANE

Particular description of goods.—A Remedy for Hay-Fever, Bronchitis, Catarrh of Stomach and Head, and for Reducing Inflammation.
Claims use since May 15, 1921.

Ser. No. 149,437. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARENA CHEMICAL COMPANY, Worcester, Mass. Filed June 21, 1921.

Sans

Particular description of goods.—Toilet Preparation for Preventing, Absorbing, or Deodorizing Perspiration.
Claims use since May 10, 1921.

Ser. No. 149,440. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COLGATE & COMPANY, Jersey City, N. J. Filed June 21, 1921.

The Unknown Flower

Particular description of goods.—Liquid and Powdered Perfumes.
Claims use since May 28, 1921.

Ser. No. 149,482. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE PANTASOTE LEATHER COMPANY, Passaic, N. J. Filed June 21, 1921.

TEXTASOTE

Particular description of goods.—Waterproof Cloth in the Piece.
Claims use since Jan. 8, 1921.

Ser. No. 149,487. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JEAN SENNOAS, New York, N. Y. Filed June 21, 1921.

JEAN'S HENNOXIDE

Particular description of goods.—Solution for Lightening the Shade of Hair.
Claims use since July 1, 1920.

Ser. No. 149,490. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AMERICAN APOTHECARIES COMPANY, New York, N. Y. Filed June 22, 1921.

TONIKEL

Particular description of goods.—A General Tonic and Reconstructive to be Used in the Treatment of Nervous Exhaustion, Functional Impotence, Loss of Appetite, Faulty Nutrition, Anemia, and General Debility.
Claims use since about Nov. 14, 1914.

Ser. No. 149,541. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CLAUSEN ZOLLER COMPANY, St. Louis, Mo. Filed June 23, 1921.

Ferrolix

Particular description of goods.—Blood and Nerve Tonic in Liquid Form.
Claims use since about Nov. 1, 1920.

Ser. No. 149,572. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WM. ANDERSON TEXTILE MFG. CO., New York, N. Y. Filed June 24, 1921.

Wm Anderson

Consisting of facsimile signature of Wm. Anderson.
Particular description of goods.—Textile Fabrics—Namely, Zephyrs in the Piece, Shirting in the Piece, Voile in the Piece, Poplin in the Piece, Flannel in the Piece, Tissue in the Piece, and Muslin in the Piece.
Claims use since 1911.

Ser. No. 149,580. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RODOLFO FLORES, Sedalia, Mo. Filed June 24, 1921.

Pulviskin

Particular description of goods.—Powder for Affections of the Skin.
Claims use since Jan. 1, 1920.

Ser. No. 149,599. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) NICK PICCOLI, Paterson, N. J. Filed June 24, 1921.

Dip-Top

Particular description of goods.—Shoe-Polish in Paste, Liquid, and Powdered Form.
Claims use since Mar. 17, 1921.

Ser. No. 149,605. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TALCUM PUFF CO., Brooklyn, N. Y. Filed June 24, 1921.



Particular description of goods.—Talcum Powder.
Claims use since May 2, 1921.

Ser. No. 149,625. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) P. BEIERSDORF & Co. INC., New York, N. Y. Filed June 25, 1921.

Aolan

Particular description of goods.—Lacto-Albuminous Solution Used for Subcutaneous Injections.
Claims use since May 21, 1921.

Ser. No. 149,706. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THOMAS B. KANE, Philadelphia, Pa. Filed June 27, 1921.



No claim being made to the word "Beverages" apart from the mark shown on the drawing.
Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.
Claims use since June 1, 1920.

Ser. No. 149,709. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) JOHN MULHERN COMPANY, San Francisco, Calif. Filed June 27, 1921.

PEERLESS BRAND



No claim being made to the words "Peerless Brand, Quality First" apart from the mark shown on the drawing.
Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverage Sold as Soft Drinks, and Syrups for Making the Same.
Claims use since May 18, 1917.

Ser. No. 149,826. (CLASS 12. VEHICLES, NOT INCLUDING ENGINES.) THE TORBENSEN GEAR AND AXLE COMPANY, Cleveland, Ohio. Filed June 27, 1921.



Particular description of goods.—Motor-Vehicle Axles and Gear-Casing Constructions Therefor.
Claims use since Mar. 25, 1917.

Ser. No. 149,827. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) SHARON STEEL HOOP COMPANY, Sharon, Pa. Filed June 29, 1921.

ENAMELITE

Particular description of goods.—Steel Plates, Strips, and Sheets.
Claims use since Apr. 20, 1921.

Ser. No. 149,840. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WESTERN INDUSTRIES CO., San Francisco, Calif. Filed June 29, 1921.

WI-ALC

Particular description of goods.—Denatured Alcohol.
Claims use since May 15, 1921.

Ser. No. 149,996. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) ALDRICH MANUFACTURING CO., INC., Buffalo, N. Y. Filed July 5, 1921.

AMCOIN

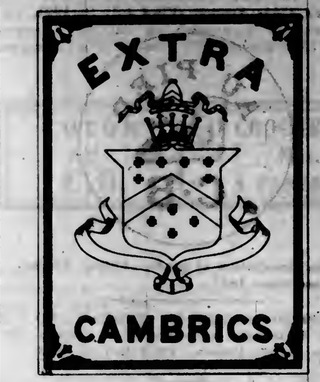
Particular description of goods.—Steam-Tables, Culinary Warmers, Cookers, and Culinary Urns.
Claims use since Jan. 10, 1921.

Ser. No. 150,175. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BERKELEY COMPANY, Providence, R. I. Filed July 9, 1921. Under ten-year proviso.



Particular description of goods.—Cotton-Sheeting in the Piece.
Claims use since on or before Jan. 1, 1888.

Ser. No. 150,177. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BERKELEY COMPANY, Providence, R. I. Filed July 9, 1921. Under ten-year proviso.



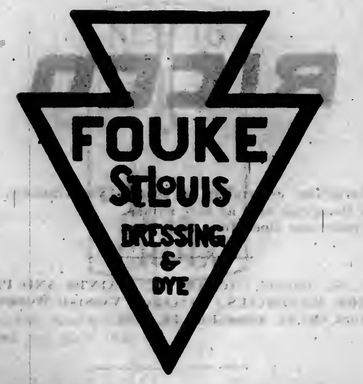
The cross-lining of the accompanying drawing is for purposes of shading only and does not necessarily represent color.
Particular description of goods.—Cambrics in the Piece.
Claims use since on or before Jan. 1, 1888.

Ser. No. 150,207. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) STANDARD BOTTLING COMPANY, Newark, N. J. Filed July 9, 1921.

ORANGE BLOSSOMS

Particular description of goods.—Non-Alcoholic, Non-Cereal Maltless Beverages Sold as Soft Drinks and Syrups for Making Same.
Claims use since March, 1920.

Ser. No. 150,229. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) FOUKE FUR COMPANY, St. Louis, Mo. Filed July 11, 1921.



No claim is made to the words "St. Louis" and "Dressing & Dye" apart from the mark as shown in the drawing.
Particular description of goods.—Furs, Skins, Hides, and Pelts.
Claims use since May 23, 1921.

Ser. No. 150,236. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) KUHNS BROTHERS, Dayton, Ohio. Filed July 11, 1921.



Consists of the letter "K."
Particular description of goods.—Elbows, T's, Crosses, Caps, Lock-Nuts, Couplings, Reducing Couplings, Eccentric Reduced Couplings, Y-heads, Return-Bends, Reducing Twin Elbows for Hot-Water, Long-Sweep Elbows, Long-Sweep T's, Long-Sweep Crosses, Car-Heating Fittings, Extra Heavy Pipe-Fittings and Special Pipe-Fittings, Cast-Iron Screwed Pipe-Fittings.
Claims use since Dec. 1, 1888.

Ser. No. 150,343. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ATLAS TRUCK CORPORATION, York, Pa. Filed July 14, 1921.

TROLLIBUS

Particular description of goods.—Electric Omnibuses or Passenger-Vehicles.
Claims use since June 1, 1921.

Ser. No. 150,371. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE RICCO COMPANY OF AMERICA, Columbus, Ga. Filed July 14, 1921.

RICCO

Particular description of goods.—Non-Alcoholic, Malt less Beverages Sold as Soft Drinks.
Claims use since June 1, 1918.

Ser. No. 150,375. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) STANDARD VARNISH WORKS, New York, N. Y. Filed July 14, 1921.

KUTKWIK

Particular description of goods.—Paint and Varnish Remover.
Claims use since July 8, 1921.

Ser. No. 150,475. (CLASS 43. THREAD AND YARN.) SOCIETE FRANÇAISE DE COTONS A COUDRE (Societe Anonyme), Paris, France. Filed July 16, 1921.



The star shown being red.
Particular description of goods.—Cotton Thread.
Claims use since 1834.

Ser. No. 150,477. (CLASS 43. THREAD AND YARN.) SOCIETE FRANÇAISE DE COTONS A COUDRE (Societe Anonyme), Paris, France. Filed July 16, 1921.



No claim being made to the words "Par 50 Grammes, La Pelote, Paris."
Particular description of goods.—Cotton Thread.
Claims use since 1854.

Ser. No. 150,479. (CLASS 43. THREAD AND YARN.) SOCIETE FRANÇAISE DE COTONS A COUDRE (Societe Anonyme), Paris, France. Filed July 16, 1921.



Particular description of goods.—Cotton Thread.
Claims use since 1867.

Ser. No. 150,480. (CLASS 43. THREAD AND YARN.) SOCIETE FRANÇAISE DE COTONS A COUDRE (Societe Anonyme), Paris, France. Filed July 16, 1921.



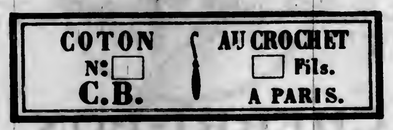
No claim being made to the words "25 Grammes."
Particular description of goods.—Cotton Thread.
Claims use since 1874.

Ser. No. 150,481. (CLASS 43. THREAD AND YARN.) SOCIETE FRANÇAISE DE COTONS A COUDRE (Societe Anonyme), Paris, France. Filed July 16, 1921.



No claim being made to the word "Coton."
Particular description of goods.—Cotton Thread.
Claims use since 1868.

Ser. No. 150,483. (CLASS 43. THREAD AND YARN.) SOCIETE FRANÇAISE DE COTONS A COUDRE (Societe Anonyme), Paris, France. Filed July 16, 1921.



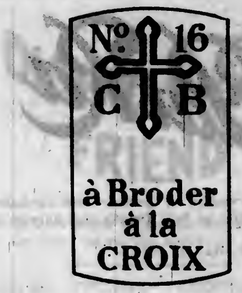
No claim being made to the words "Coton, Paris."
Particular description of goods.—Cotton Thread.
Claims use since 1856.

Ser. No. 150,484. (CLASS 43. THREAD AND YARN.) SOCIETE FRANÇAISE DE COTONS A COUDRE (Societe Anonyme), Paris, France. Filed July 16, 1921.



No claim being made to the word "Paris" or to the expression "Par 45 Metres" apart from the mark shown in the drawing.
Particular description of goods.—Cotton Thread.
Claims use since 1873.

Ser. No. 150,485. (CLASS 43. THREAD AND YARN.) SOCIETE FRANÇAISE DE COTONS A COUDRE (Societe Anonyme), Paris, France. Filed July 16, 1921.



Particular description of goods.—Cotton Thread.
Claims use since 1840.

Ser. No. 150,487. (CLASS 43. THREAD AND YARN.) SOCIETE FRANÇAISE DE COTONS A COUDRE (Societe Anonyme), Paris, France. Filed July 16, 1921.



No claim being made to the words "Moulin Double, Par 47 à 50 Grammes, Paris."
Particular description of goods.—Cotton Thread.
Claims use since 1872.

Ser. No. 150,488. (CLASS 43. THREAD AND YARN.) SOCIETE FRANÇAISE DE COTONS A COUDRE (Societe Anonyme), Paris, France. Filed July 16, 1921.



No claim being made to the words "Coton a Marquer, Grand Teint, Pelotes de 2 à 3 Grammes, Suivant les Numéros Fabricant, Paris."
Particular description of goods.—Cotton Thread.
Claims use since 1839.

Ser. No. 150,566. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) PATTERSON MINERAL WATER & BEVERAGE CO., Chicago, Ill. Filed July 18, 1921.



Particular description of goods.—Non-Alcoholic, Maltless Beverages, Sold as Soft Drinks and Syrups for Making the Same.
Claims use since Mar. 1, 1921.

Ser. No. 150,642. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) TAYLOR-VAN HOUTEN CO., Lansing, Mich. Filed July 19, 1921.



Particular description of goods.—Paint and Varnish Remover.
Claims use since July 2, 1921.

Ser. No. 150,846. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BAEDER ADAMSON COMPANY, Boston, Mass. Filed July 23, 1921. Under ten-year proviso.



Particular description of goods.—Flint-Paper and Flint-Cloth, Garnet-Paper and Garnet-Cloth, Emery-Paper and Emery-Cloth.
Claims use since 1891.

Ser. No. 150,847. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BAEDER ADAMSON COMPANY, Boston, Mass. Filed July 23, 1921.



Particular description of goods.—Flint-Paper and Flint-Cloth.
Claims use since November, 1919.

Ser. No. 150,870. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) LIMPERT BROS., INC., New York, N. Y. Filed July 23, 1921.

CHERRI-BON

Consisting of the word "Cherri-Bon."
Particular description of goods.—Non-Alcoholic, Maltless Beverage Flavored with Cherry-Juice, Sold as a Soft Drink.
Claims use since 1913.

Ser. No. 151,137. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) ANHEUSER-BUSCH, INC., St. Louis, Mo. Filed July 30, 1921.



Particular description of goods.—Maltless, Carbonated Chocolate Beverage.
Claims use since Apr. 2, 1921.

Ser. No. 151,504. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) GEORGE BORGFELDT & CO., New York, N. Y. Filed Aug. 6, 1921.



Particular description of goods.—Sewing-Needles.
Claims use since Dec. 5, 1920.

Ser. No. 151,601. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WESTERN SOAP COMPANY, Spokane, Wash. Filed Aug. 9, 1921.



The picture being fanciful.
Particular description of goods.—Liquid, Laundry, and Grit Soap.
Claims use since January, 1915.

Ser. No. 151,615. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) DOLLFUS-MIEG & CIE. SOCIÉTÉ ANONYME, Mulhouse, Alsace, France. Filed Aug. 10, 1921.



Particular description of goods.—Braids, and Articles of Passementerie Made of Textiles of All Kinds.
Claims use since 1847.

Ser. No. 151,665. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FITZPATRICK BROS., Chicago, Ill. Filed Aug. 11, 1921.

DISHWASHERS FRIEND

Particular description of goods.—Soaps.
Claims use since about the middle of July, 1921.

Ser. No. 151,667. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FITZPATRICK BROS., Chicago, Ill. Filed Aug. 11, 1921.

Spring Beauty

Particular description of goods.—Soaps.
Claims use since about January, 1895.

Ser. No. 151,704. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Aug. 12, 1921.

Moireskin

Particular description of goods.—Pile Fabrics in the Piece.
Claims use since June 24, 1921.

Ser. No. 151,800. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE PIONEER TAR SOAP COMPANY, Dayton, Ohio. Filed Aug. 15, 1921.

CLONO

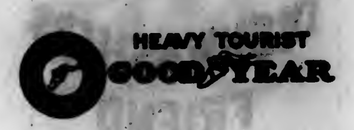
Particular description of goods.—Soaps.
Claims use since Apr. 27, 1921.

Ser. No. 151,814. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WINSOR & NEWTON, LIMITED, London, England. Filed Aug. 15, 1921.



Particular description of goods.—Artists' Colors.
Claims use since 1832.

Ser. No. 151,830. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Aug. 16, 1921.



The background of the seal at the left of the drawing being lined to indicate the color red.

Particular description of goods.—Elastic Vehicle-Tires and Tubes Therefor Composed Wholly or in Part of Rubber.

Claims use since July 6, 1921.

Ser. No. 151,967. (CLASS 12. CONSTRUCTION MATERIALS.) WARREN BROTHERS COMPANY, Boston, Mass. Filed Aug. 19, 1921.

PORTASPHALT

Particular description of goods.—Pavements and Paving Materials Containing Bituminous Matter.

Claims use since Aug. 16, 1921.

Ser. No. 152,140. (CLASS 12. CONSTRUCTION MATERIALS.) THE STAVELEY COAL & IRON CO. LIMITED, Barrow Hill, near Chesterfield, England. Filed Aug. 24, 1921.

STAVE-HO

Particular description of goods.—Waterproof Cement for Building.

Claims use since Sept. 1, 1919.

Ser. No. 152,164. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GEORGE W. CABLE, Marysville, Calif. Filed Aug. 25, 1921.



Particular description of goods.—A Cleaner and Polish for Automobile-Bodies.

Claims use since Mar. 28, 1921.

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TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

OCTOBER 4, 1921.

147,068. MACHINE-OIL. AMBOY PRODUCTS CO., INC., Chicago, Ill.
Filed November 26, 1920. Serial No. 140,157. PUBLISHED JUNE 14, 1921.

147,069. READY-MIXED PAINTS. AMERICAN ASPHALT ROOF CORPORATION, Kansas City, Mo.
Filed December 8, 1920. Serial No. 140,771. PUBLISHED JUNE 14, 1921.

147,070. A CHEMICAL PREPARATION TO INCREASE THE EFFICIENCY AND POWER OF GASOLENE. THE AMERICAN AUTOMOBILE ACCESSORIES COMPANY, Cincinnati, Ohio.
Filed January 10, 1921. Serial No. 142,001. PUBLISHED JUNE 14, 1921.

147,071. WHEAT-FLOUR AND CORNMEAL. THE ANSTED & BUCK CO., Springfield, Ohio.
Filed March 28, 1921. Serial No. 145,303. PUBLISHED JUNE 21, 1921.

147,072. A GAS-BLACK AND CARBON-BLACK IN BAGS. BINNEY & SMITH COMPANY, New York, N. Y.
Filed December 30, 1920. Serial No. 141,661. PUBLISHED JUNE 14, 1921.

147,073. BRAIDED TUBULAR TEXTILE MATS AND RUGS. BINNS PATENT BAND CO., INC., Camden, N. J., and Philadelphia, Pa.
Filed March 19, 1921. Serial No. 144,960. PUBLISHED JUNE 7, 1921.

147,074. HAIR-TONIC FOR THE TREATMENT OF DISEASES OF THE HAIR AND SCALP. JOHN HART BRITTAIN INC., New York, N. Y.
Filed December 30, 1920. Serial No. 141,663. PUBLISHED JUNE 14, 1921.

147,075. A CERTAIN NAMED MEDICINAL TONIC. BENJAMIN BRUNS, Cincinnati, Ohio.
Filed September 30, 1920. Serial No. 137,758. PUBLISHED FEBRUARY 15, 1921.

147,076. SALVES USED IN THE TREATMENT OF BURNS, SCALDS, BRUISES. THE BURAIMO COMPANY, Belmont, Mass.
Filed January 3, 1921. Serial No. 141,748. PUBLISHED JUNE 7, 1921.

147,077. COTTON PIECE GOODS. BURTON BROS. & CO., New York, N. Y.
Filed April 22, 1921. Serial No. 146,517. PUBLISHED JUN7 7, 1921.

147,078. SILK PIECE GOODS. CARSON PIRIE SCOTT & COMPANY, Chicago, Ill.
Filed December 11, 1919. Serial No. 125,829. PUBLISHED JUNE 14, 1921.

147,079. A PREPARATION FOR THE TREATMENT OF PYORRHEA. THE L. D. CAULK COMPANY, Milford, Del.
Filed February 15, 1921. Serial No. 143,588. PUBLISHED JUNE 21, 1921.

147,080. A POLISH FOR FURNITURE, FLOORS, PIANOS, AUTOMOBILES, OR ANY WAXED OR VARNISHED SURFACE. THE CEDA-ODA COMPANY, Franklin Park, Mass.
Filed December 14, 1920. Serial No. 141,061. PUBLISHED JUNE 14, 1921.

147,081. A SHORTENING COMPOUND. CHAPMAN & SMITH COMPANY, Chicago, Ill.
Filed January 26, 1921. Serial No. 142,777. PUBLISHED JUNE 21, 1921.

147,082. A LIQUID FURNITURE AND AUTOMOBILE POLISH. CHIN-CHIN CHEMICAL COMPANY, Chicago, Ill.
Filed April 29, 1921. Serial No. 146,954. PUBLISHED JUNE 21, 1921.

147,083. ANTISEPTIC, GERMICIDAL, AND ANODYNE OIL. FRED W. CLEMENTS, Rochester, N. Y.
Filed October 22, 1920. Serial No. 138,664. PUBLISHED JUNE 14, 1921.

147,084. TOOTH-POWDER. FRED W. CLEMENTS, Rochester, N. Y.
Filed October 22, 1920. Serial No. 138,665. PUBLISHED MAY 24, 1921.

147,085. PERFUMES AND INCENSE, BOTH IN SOLID FORM. CLOVER PRODUCTS CORPORATION, Los Angeles, Calif.
Filed January 26, 1921. Serial No. 142,778. PUBLISHED JUNE 14, 1921.

147,086. A MEDICINE INTENDED FOR USE IN EPILEPSY AND OTHER NERVOUS DISORDERS. THE CONVERSE TREATMENT CO., Columbus, Ohio.
Filed January 7, 1921. Serial No. 141,944. PUBLISHED JUNE 14, 1921.

147,087. DENTAL CREAM. MURRAY C. DRAKE, Binghamton, N. Y.
Filed October 23, 1920. Serial No. 138,709. PUBLISHED JUNE 7, 1921.

147,088. A COMPOUND OF MALT, HOPS, AND SUGAR FOR MAKING A BEVERAGE. DUNNE-MCCORD COMPANY INC., Syracuse, N. Y., and Evansville, Ind.
Filed March 14, 1921. Serial No. 144,710. PUBLISHED JUNE 21, 1921.

147,089. BROAD-SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed April 20, 1921. Serial No. 146,417. PUBLISHED JUNE 7, 1921.

147,090. A MEDICAL COMPOUND IN SALVE FORM. EASTMAN CHEMICAL CO., Cincinnati, Ohio.
Filed October 25, 1920. Serial No. 138,758. PUBLISHED JUNE 14, 1921.

147,091. COTTON, DUCK, AND CANVAS PIECE GOODS. J. EINSTEIN, INC., New York, N. Y.
Filed April 21, 1921. Serial No. 146,482. PUBLISHED JUNE 7, 1921.

147,092. A GENERAL TONIC. THE ERB DRUG CO., INC., Lynchburg, Va.
Filed January 22, 1921. Serial No. 142,612. PUBLISHED MAY 31, 1921.

147,093. CERTAIN NAMED TOILET PREPARATIONS. ESTASI PERFUMERY CO., INC., New York, N. Y.
Filed November 18, 1920. Serial No. 139,791. PUBLISHED JUNE 14, 1921.

147,094. CERTAIN NAMED POULTRY MEDICINES. F. & F. POULTRY REMEDY CO., Humeston, Iowa.
Filed December 20, 1920. Serial No. 141,299. PUBLISHED JUNE 14, 1921.

147,095. HAIR-GROWER, VEGETABLE SHAMPOO, AND TETTER-BALM. SALLIE B. FIELDS, Hampton, Va.
Filed November 30, 1920. Serial No. 140,434. PUBLISHED JUNE 14, 1921.

147,096. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed March 18, 1921. Serial No. 144,904. PUBLISHED JUNE 7, 1921.

147,097. A NERVE AND BLOOD TONIC. CARL J. FLOM, Baltimore, Md.
Filed January 3, 1921. Serial No. 141,773. PUBLISHED JUNE 14, 1921.

147,098. A HAIR-GROWER. HOWARD FOLKE, Los Angeles, Calif.
Filed November 27, 1920. Serial No. 140,325. PUBLISHED JUNE 14, 1921.

147,099. BREAD. GIUSEPPE GANDOLFO, New York, N. Y.
Filed March 5, 1921. Serial No. 144,329. PUBLISHED JUNE 21, 1921.

147,100. LINIMENTS FOR RHEUMATIC AFFECTIONS AND OTHER BODY-PAINS. MARGARET GAST, New York, N. Y.
Filed December 30, 1920. Serial No. 141,678. PUBLISHED JUNE 14, 1921.

147,101. BAKING-POWDER. GLOBE GROCERY STORES, INCORPORATED, New York and Brooklyn, N. Y.
Filed January 27, 1921. Serial No. 142,842. PUBLISHED JUNE 14, 1921.

147,102. LIQUID WAX POLISH. JOHN GOLDING, Atlanta, Ga.
Filed March 10, 1921. Serial No. 144,569. PUBLISHED JUNE 21, 1921.

147,103. TWINE AND CORDAGE. THE M. J. GRADY COMPANY, INCORPORATED, New York, N. Y.
Filed May 4, 1921. Serial No. 147,189. PUBLISHED JUNE 21, 1921.

147,104. FIBER CORD, FIBER REED, AND FIBER STAKES. THE GRAND LAKE COMPANY, INC., New York, N. Y.
Filed March 18, 1921. Serial No. 144,905. PUBLISHED JUNE 21, 1921.

147,105. FIBER CORD, FIBER REED, AND FIBER STAKES. THE GRAND LAKE COMPANY, INC., New York, N. Y.
Filed March 18, 1921. Serial No. 144,906. PUBLISHED JUNE 21, 1921.

147,106. A LIQUID MEDICINAL PREPARATION FOR USE IN INHALERS. ELLA M. GREENFIELD, Erie, Pa.
Filed July 15, 1920. Serial No. 135,001. PUBLISHED JUNE 7, 1921.

147,107. CERTAIN NAMED PERFUMERY PRODUCTS. SAMUEL GREINER, New York, N. Y.
Filed September 16, 1920. Serial No. 137,260. PUBLISHED JUNE 14, 1921.

147,108. PERFUME-OIL COMPOUNDED AND BLENDED. GEORGE V. GROSS & COMPANY, New York, N. Y.
Filed January 24, 1921. Serial No. 142,703. PUBLISHED JUNE 14, 1921.

147,109. A CERTAIN NAMED LINIMENT AND MEDICINAL PREPARATION. ALLEN L. HAAS, Racine, Wis.
Filed August 30, 1920. Serial No. 136,630. PUBLISHED JUNE 14, 1921.

147,110. AN OINTMENT. HALL & RUCKEL, New York, N. Y.
Filed October 20, 1920. Serial No. 138,570. PUBLISHED JUNE 14, 1921.

147,111. PILE-FABRIC PIECE GOODS. THE HIND & HARRISON PLUSH CO., New York and Clark Mills, N. Y.
Filed April 15, 1921. Serial No. 146,212. PUBLISHED JUNE 7, 1921.

147,112. CERTAIN NAMED TOILET PREPARATIONS. HOUBIGANT, INC., New York, N. Y.
Filed September 13, 1920. Serial No. 137,123. PUBLISHED FEBRUARY 8, 1921.

147,113. CANDY. IMPERIAL CANDY COMPANY, Seattle, Wash.
Filed March 19, 1921. Serial No. 144,971. PUBLISHED JUNE 21, 1921.

147,114. CERTAIN NAMED DYEWOOD AND TANNING EXTRACTS. IMPERIAL DYEWOOD CORPORATION, Lynchburg, Va., and New York, N. Y.
Filed August 6, 1920. Serial No. 135,854. PUBLISHED JUNE 14, 1921.

147,115. A TONIC OF COD-LIVER EXTRACT, MALT, WILD CHERRY, AND HYPOPHOSPHITES. INTERSTATE DRUG COMPANY, New York, N. Y.
Filed February 15, 1921. Serial No. 143,600. PUBLISHED JUNE 21, 1921.

147,116. A CERTAIN NAMED MEDICINAL PREPARATION, TOOTH-PASTE, AND MOUTH-WASH. KAFFIR CHEMICAL LABORATORIES, Omaha, Nebr.
Filed October 6, 1920. Serial No. 138,092. PUBLISHED JUNE 14, 1921.

147,117. A SALVE FOR TREATMENT OF PILES, BLOOD-POISON, FLESH-CUTS, AND OLD SORES. CHARLES F. KARNES, Tulsa, Okla.
Filed January 14, 1921. Serial No. 142,257. PUBLISHED MAY 31, 1921.

147,118. CERTAIN NAMED TOILET PREPARATIONS. JOSEPH HENRY KARP, New York, N. Y.
Filed December 31, 1920. Serial No. 141,723. PUBLISHED JUNE 14, 1921.

147,119. PICKLED SWEET PEPPERS; CHOPPED PIMENTO; CHUTNEY, PERUVIANA PRESERVES; STUFFED GREEN PIMENTOS, AND TOMATO JAM. KEHOE PRESERVING COMPANY, Terre Haute and Clay City, Ind.
Filed February 23, 1921. Serial No. 143,928. PUBLISHED JUNE 21, 1921.

147,120. CERTAIN FLANNEL SHIRTINGS AND OTHER SIMILAR CLOTHS AND STUFFS IN THE PIECE. KELSALL & KEMP LIMITED, The Butts, Rochdale, England.
Filed December 15, 1920. Serial No. 141,118. PUBLISHED JUNE 14, 1921.

147,121. SHAMPOOS AND DISINFECTANTS. HAROLD J. KLINE, San Francisco, Calif.
Filed October 2, 1920. Serial No. 137,840. PUBLISHED JUNE 14, 1921.

147,122. COAL-TAR COLORS. H. KOHNSTAMM & CO., New York, N. Y.
Filed January 14, 1921. Serial No. 142,258. PUBLISHED MAY 31, 1921.

147,123. COAL-TAR DYES. H. KOHNSTAMM & CO., New York, N. Y.
Filed January 14, 1921. Serial No. 142,259. PUBLISHED MAY 31, 1921.

147,124. A LIQUID SHAMPOO. LA FRANCE LABORATORIES INC., New York, N. Y.
Filed January 12, 1921. Serial No. 142,155. PUBLISHED JUNE 14, 1921.

147,125. DRY COLORS FOR USE AND USED IN THE MANUFACTURE OF PAINTS AND PAINTERS' MATERIALS. MANGANO MANUFACTURING COMPANY, Rahway, N. J.
Filed January 11, 1921. Serial No. 142,086. PUBLISHED JUNE 14, 1921.

147,126. PIECE GOODS—NAMELY, MUSLIN. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,310. PUBLISHED JUNE 14, 1921.

147,127. BEDSPREADS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,320. PUBLISHED JUNE 7, 1921.

147,128. HAIR-NETS. THE MAY DEPARTMENT STORES COMPANY, St. Louis, Mo.
Filed April 18, 1921. Serial No. 146,320. PUBLISHED JUNE 7, 1921.

147,129. A CERTAIN NAMED SALVE. THE MENTHOLATUM COMPANY, Wichita, Kans., and Buffalo, N. Y.
Filed January 6, 1921. Serial No. 141,915. PUBLISHED JUNE 14, 1921.

147,130. STOMACH-SALTS. CHARLES H. MILLER, Dayton, Ohio.
Filed January 17, 1921. Serial No. 142,356. PUBLISHED JUNE 14, 1921.

147,131. FOOT-POWDER. HYMAN MILLER, Boston, Mass.
Filed January 11, 1921. Serial No. 142,085. PUBLISHED JUNE 14, 1921.

147,132. TOOTH-PASTE. CHARLES MUNTER, New York, N. Y.
Filed January 17, 1921. Serial No. 142,353. PUBLISHED JUNE 14, 1921.

147,133. DYESTUFFS, CERTIFIED FOOD-COLORS, AND INTERMEDIATES. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed January 18, 1921. Serial No. 142,394. PUBLISHED MAY 31, 1921.

147,134. DYESTUFFS, CERTIFIED FOOD-COLORS, AND INTERMEDIATES. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed January 18, 1921. Serial No. 142,395. PUBLISHED MAY 31, 1921.

147,135. DYESTUFFS, CERTIFIED FOOD-COLORS, AND INTERMEDIATES. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed January 18, 1921. Serial No. 142,396. PUBLISHED MAY 31, 1921.

147,136. DYESTUFFS, CERTIFIED FOOD-COLORS, AND INTERMEDIATES. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed January 18, 1921. Serial No. 142,397. PUBLISHED MAY 31, 1921.

147,137. A MEDICINE. THE NEEDHAM PRODUCTS COMPANY, Cleveland, Ohio.
Filed February 15, 1921. Serial No. 143,616. PUBLISHED JUNE 21, 1921.

147,138. VARNISHES. LOUIS NEKRITZ, Brooklyn, N. Y.
Filed October 28, 1920. Serial No. 138,919. PUBLISHED JUNE 14, 1921.

147,139. EVAPORATED MILK. NESTLÉ'S FOOD COMPANY, INC., New York, N. Y.
Filed February 4, 1921. Serial No. 143,181. PUBLISHED JUNE 21, 1921.

147,140. CONDENSED MILK. NESTLÉ'S FOOD COMPANY, INC., New York, N. Y.
Filed February 4, 1921. Serial No. 143,182. PUBLISHED JUNE 21, 1921.

147,141. WOVEN COTTON PIECE GOODS—NAMELY, COLORED DRILLS OF ALL DESCRIPTIONS. NEUSS, HESSLEIN & CO., INC., New York, N. Y.
Filed March 24, 1921. Serial No. 145,170. PUBLISHED JUNE 7, 1921.

147,142. A CONCENTRATED MATERIAL OF MALT AND HOPS FOR MAKING A MALT BEVERAGE. NEW ENGLAND BREWING COMPANY, Jersey City, N. J., and Boston, Mass.
Filed March 2, 1921. Serial No. 144,244. PUBLISHED JUNE 21, 1921.

147,143. TANNING EXTRACTS. NEW YORK QUEBRACHO EXTRACT COMPANY, New York, N. Y.
Filed January 28, 1921. Serial No. 142,896. PUBLISHED JUNE 14, 1921.

147,144. WATER-COLOR PAINTS. THE ORLANDO CHEMICAL CO., Orlando, Fla.
Filed July 14, 1920. Serial No. 134,973. PUBLISHED JUNE 14, 1921.

147,145. CERTAIN NAMED TOILET PREPARATIONS. ANTHONY OVERTON, Chicago, Ill.
Filed December 15, 1920. Serial No. 141,126. PUBLISHED JUNE 14, 1921.

147,146. A CERTAIN NAMED CHEMICAL COMPOUND. THE PEROLIN COMPANY OF AMERICA, Chicago, Ill.
Filed January 3, 1921. Serial No. 141,800. PUBLISHED JUNE 14, 1921.

147,147. BINDER-TWINE. PLYMOUTH CORDAGE COMPANY, Plymouth, Mass.
Filed April 18, 1921. Serial No. 146,331. PUBLISHED JUNE 21, 1921.

147,148. BINDER-TWINE. PLYMOUTH CORDAGE COMPANY, Plymouth, Mass.
Filed April 18, 1921. Serial No. 146,332. PUBLISHED JUNE 21, 1921.

147,149. GALACTAGOGUE PREPARATIONS. PROTO CHEMICAL CO., INC., New York, N. Y.
Filed January 17, 1921. Serial No. 142,350. PUBLISHED JUNE 14, 1921.

147,150. CERTAIN NAMED TOILET PREPARATIONS. RADIOR CO. LTD. OF LONDON, New York, N. Y.
Filed November 24, 1919. Serial No. 125,248. PUBLISHED JUNE 14, 1921.

147,151. CERTAIN NAMED CHEMICAL, MEDICINAL, AND TOILET PREPARATIONS. THE RED BALL COMPANY, Madrid, Iowa.
Filed June 30, 1920. Serial No. 134,429. PUBLISHED JUNE 14, 1921.

147,152. FOOD-SALT FOR DIABETES. MATTHEW RICHARTZ, New York, N. Y.
Filed June 26, 1920. Serial No. 134,271. PUBLISHED JUNE 14, 1921.

147,153. A FAT-REDUCING REMEDY. RITE-WATE MEDICINE CO., Detroit, Mich.
Filed January 27, 1921. Serial No. 142,854. PUBLISHED JUNE 14, 1921.

147,154. A MEDICAL PREPARATION FOR USE IN THE TREATMENT OF ASTHMA. W. M. ROBERTS, Chicago, Ill.
Filed January 8, 1921. Serial No. 141,997. PUBLISHED JUNE 14, 1921.

147,155. CHEESE. J. C. RUDOLPH & CO., INC., Chicago, Ill.
Filed March 17, 1921. Serial No. 144,876. PUBLISHED JUNE 21, 1921.

147,156. SILICATE OF SODA. SAN ANTONIO DRUG CO., San Antonio, Tex.
Filed January 18, 1921. Serial No. 142,416. PUBLISHED JUNE 14, 1921.

147,157. PAINT-OILS, PAINT-COLORS, PAINT-PIGMENTS, AND TURPENTINE. THE CHAS. R. SARGENT COMPANY, Cleveland, Ohio.
Filed July 30, 1920. Serial No. 135,623. PUBLISHED JUNE 14, 1921.

147,158. CANDY. MISS SAYLOR'S CHOCOLATES, INC., Alameda, Calif.
Filed February 17, 1921. Serial No. 143,718. PUBLISHED JUNE 21, 1921.

147,159. SELF-RISING WHEAT-FLOUR. SCHOENING-KOENIGSMARK MILLING CO., Valmeyer, Ill.
Filed February 23, 1921. Serial No. 143,958. PUBLISHED JUNE 21, 1921.

147,160. GASOLENE. SERVICE OIL REFINING COMPANY, Kokomo, Ind.
Filed October 2, 1920. Serial No. 137,860. PUBLISHED JUNE 14, 1921.

147,161. A HEART-STIMULANT. W. F. SEVERA CO., Cedar Rapids, Iowa.
Filed January 12, 1921. Serial No. 142,175. PUBLISHED MAY 31, 1921.

147,162. MEDICINE FOR INDIGESTION AND SIMILAR COMPLAINTS. W. F. SEVERA CO., Cedar Rapids, Iowa.
Filed January 12, 1921. Serial No. 142,176. PUBLISHED MAY 31, 1921.

147,163. MEDICINE FOR KIDNEYS AND BLADDER. W. F. SEVERA Co., Cedar Rapids, Iowa.
Filed January 12, 1921. Serial No. 142,177. PUBLISHED MAY 31, 1921.

147,164. ANTISEPTIC OINTMENT. W. F. SEVERA Co., Cedar Rapids, Iowa.
Filed January 12, 1921. Serial No. 142,179. PUBLISHED MAY 31, 1921.

147,165. A LINIMENT FOR EXTERNAL APPLICATION. W. F. SEVERA Co., Cedar Rapids, Iowa.
Filed January 12, 1921. Serial No. 142,178. PUBLISHED JUNE 14, 1921.

147,166. A CERTAIN NAMED MEDICINAL COMPOUND. SHARP & DOHME, Baltimore, Md.
Filed January 13, 1921. Serial No. 142,233. PUBLISHED MAY 31, 1921.

147,167. SOFT PASTE PAINT TO BE APPLIED ON WOOD AND ON METAL SURFACES. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio.
Filed March 17, 1921. Serial No. 144,880. PUBLISHED JUNE 21, 1921.

147,168. CERTAIN NAMED TOILET PREPARATIONS. ALFRED H. SMITH COMPANY, New York, N. Y.
Filed November 4, 1920. Serial No. 139,178. PUBLISHED JUNE 14, 1921.

147,169. FLY, INSECT, AND GERM DESTROYER. HARRY J. SMITH, Utica, N. Y.
Filed January 24, 1921. Serial No. 142,723. PUBLISHED JUNE 14, 1921.

147,170. DRY, READY-MIXED, AND PASTE PAINTS, VARNISHES, PAINT ENAMELS, STAINS, JAPANS, AND FILLERS. STANDARD VARNISH WORKS, New York, N. Y.
Filed December 6, 1920. Serial No. 140,682. PUBLISHED JUNE 14, 1921.

147,171. A FLAVORING COMPOUND EXTRACT FOR ICE-CREAM. STAR EXTRACT WORKS, New York, N. Y.
Filed February 12, 1921. Serial No. 143,517. PUBLISHED JUNE 21, 1921.

147,172. COUGH-DROPS. ROBERT SUTER, Baltimore, Md.
Filed December 23, 1920. Serial No. 141,472. PUBLISHED JUNE 14, 1921.

147,173. APPLE-BUTTER, FRUIT PRESERVES, JAM, MINCE-MEAT, AND JELLIES. TEMTOR CORN & FRUIT PRODUCTS Co., St. Louis, Mo.
Filed March 24, 1921. Serial No. 145,177. PUBLISHED JUNE 21, 1921.

147,174. FRUIT PRESERVES AND JAMS. TEMTOR CORN & FRUIT PRODUCTS Co., St. Louis, Mo.
Filed March 24, 1921. Serial No. 145,180. PUBLISHED JUNE 21, 1921.

147,175. WHEAT-FLOUR. TEXAS STAR FLOUR MILLS, Galveston, Tex.
Filed March 25, 1921. Serial No. 145,242. PUBLISHED JUNE 21, 1921.

147,176. WHEAT-FLOUR. TEXAS STAR FLOUR MILLS, Galveston, Tex.
Filed March 25, 1921. Serial No. 145,244. PUBLISHED JUNE 21, 1921.

147,177. HAIR-NETS. CHARLES K. THAU, New York, N. Y.
Filed March 11, 1921. Serial No. 144,647. PUBLISHED JUNE 7, 1921.

147,178. HAIR-NETS. CHARLES K. THAU, New York, N. Y.
Filed March 11, 1921. Serial No. 144,648. PUBLISHED JUNE 7, 1921.

147,179. GENERAL-TONIC TABLETS. UNITED STATES CHEMICAL Co., Pittsburgh, Pa.
Filed September 18, 1920. Serial No. 137,342. PUBLISHED JUNE 14, 1921.

147,180. A CERTAIN NAMED MEDICINAL PREPARATION. U-RUB-IT CHEMICAL Co., Philadelphia, Pa.
Filed January 5, 1921. Serial No. 141,887. PUBLISHED JUNE 14, 1921.

147,181. REMEDIES FOR TREATMENT OF INDIGESTION. VALLELY LABORATORIES, Buffalo, N. Y.
Filed August 23, 1920. Serial No. 136,492. PUBLISHED JUNE 14, 1921.

147,182. VEILS, VEILINGS AND NETTINGS IN THE PIECE. VAN RAALTE COMPANY, INC., New York, N. Y.
Filed December 30, 1920. Serial No. 141,705. PUBLISHED JUNE 7, 1921.

147,183. LIQUID MEDICINES USED AS TONICS AND AS MILD LAXATIVES. VINO MEDICAL Co. INC., New York, N. Y.
Filed January 24, 1921. Serial No. 142,739. PUBLISHED JUNE 14, 1921.

147,184. BARLEY-MALT EXTRACT. THE WANDER COMPANY, Chicago, Ill.
Filed July 28, 1920. Serial No. 135,352. PUBLISHED JUNE 14, 1921.

147,185. COMPLEXION-CREAMS, HAIR TONICS AND BEAUTIFIERS. NELLIE M. WARE, Cleveland, Ohio.
Filed August 21, 1920. Serial No. 136,345. PUBLISHED JUNE 14, 1921.

147,186. A CERTAIN NAMED MEDICINE FOR POULTRY. LEE R. WELLINGTON, Inglewood, Calif.
Filed July 22, 1920. Serial No. 135,283. PUBLISHED JUNE 14, 1921.

147,187. GRATED CHEESE. WESTERN CHEESE AND BUTTER Co., Nicasio, Calif.
Filed February 23, 1921. Serial No. 143,902. PUBLISHED JUNE 21, 1921.

147,188. DYESTUFFS AND COAL-TAR INTERMEDIATES. THE WHITE TAR ANILINE CORP., New York, N. Y.
Filed December 21, 1920. Serial No. 141,404. PUBLISHED JUNE 14, 1921.

147,189. A CHEMICAL VERMIN-EXTERMINATOR. HARRY L. WITT, Pittsburgh, Pa.
Filed October 7, 1920. Serial No. 138,077. PUBLISHED JUNE 14, 1921.

147,190. A CERTAIN NAMED LINIMENT. CHARLES A. WOLF, Philadelphia, Pa.
Filed May 7, 1920. Serial No. 132,155. PUBLISHED JUNE 14, 1921.

147,191. DENTAL CREAM. JACOB N. WOLODARSKY, New Haven, Conn.
Filed January 17, 1921. Serial No. 142,376. PUBLISHED JUNE 14, 1921.

147,192. COTTON PIECE GOODS FOR WOMEN'S DRESS PURPOSES. ZURCHER, NIEDERER & Co., St. Gall, Switzerland.
Filed March 16, 1921. Serial No. 144,803. PUBLISHED JUNE 7, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b).]

OCTOBER 4, 1921.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

147,193. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AMERICAN BLIND STITCH MACHINE Co., New York, N. Y. Filed Feb. 19, 1921. Serial No. 143,803.

DEARBORN

Particular description of goods.—Sewing-Machines, Particularly Such as are Used for Blindstitch Work and for Edge-Working and Basting.
Claims use since July, 1904.

147,194. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) AMERICAN ENAMELED PRODUCTS Co., Chicago, Ill. Filed Nov. 26, 1917. Serial No. 107,605.

O-WITE

Particular description of goods.—Porcelain-Enamel Ware—Namely Single Tumbler-Holders, Double Tumbler-Holders, Combination Soap-Dish and Tumber-Holder, Toilet-Paper Holders, Soap-Dishes, Toothbrush-Holders, Combination Toothbrush and Tumbler-Holders, Towel-Bars, Wall-Hook Bars, Bath-Room Tumblers, Razor-Strop Hooks, Door-Hooks, Water-Bottle Hooks, Garment-Hooks, Bath-Room Shelves, Bath-Room-Shelf Brackets, Towel-Racks, Bath-Room Doorknobs, Push and Pull Bars, Door-Hinges, Door-Handles, Door-Plates, Door-Fittings; Furniture Pulls, Knobs, and Casters; Picture and Door Hangers, and Grab-Rails.
Claims use since June 1, 1917.

147,195. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) AMERICAN WIRE FABRICS COMPANY, Mount Wolf, Pa., and Chicago, Ill. Filed June 24, 1921. Serial No. 140,571.

AMERICAN

Particular description of goods.—Screen Wire-Cloth.
Claims use since Jan. 7, 1911.

147,196. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BARCLAY & BARCLAY, Live Oak, Fla. Filed Feb. 9, 1921. Serial No. 143,339.

KAMFO PHENOL

Particular description of goods.—Disinfectants and Deodorizers.
Claims use since 1906.

147,197. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BANISTER & POLLARD Co., Newark, N. J. Filed May 29, 1917. Serial No. 104,131.



No registration rights being claimed for the words "Home," "Of," "Good," and "Hardware" apart from the mark shown in the drawing.
Particular description of goods.—Lifting-Jacks, Air-Pumps, Ash-Sifters, Pocket-Knives, Rasors, Carving Sets, Scissors, Fire-Extinguishers, Garden-Rakes, Hoes, Spades and Forks, Lawn-Rollers, Lawn-Mowers, Files, Twist-Drills, Reamers, Pulleys and Pulley Blocks, Planes, Saws, Chisels, Bits and Braces, Workbenches, Chain Hoists, Baling and Fruit Presses, Pliers, Hammers, Axes, Scythes, Grass-Hooks, Wrenches, Vises, Clamps, Nail-Sets, Nail-Pullers, Ice-Tongs, Ice-Picks, Shovels, Crowbars, Picks, Trowels, and Miter-Boxes.
Claims use since 1911.

147,198. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) CHARLES DANIELSON, Minneapolis, Minn. Filed Apr. 1, 1921. Serial No. 145,552.

NEVER WIGGLE

Particular description of goods.—Ironing-Boards.
Claims use since Sept. 3, 1919.

147,199. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) C. L. BEST TRACTOR CO., San Leandro, Calif. Filed Apr. 18, 1921. Serial No. 146,293.

TRACKLAYER

Particular description of goods.—Tractors.
Claims use since 1913.

147,200. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) BETHLEHEM STEEL COMPANY, Bethlehem, Pa. Filed June 2, 1921. Serial No. 148,527.

BETHLEHEM

Particular description of goods.—Tool-Steel and Armor-Plate.
Claims use since 1912.

147,201. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES H. BOYST, Greensboro, N. C. Filed June 23, 1921. Serial No. 149,537.

Creame Kisses

Particular description of goods.—Candy.
Claims use since Oct. 5, 1905.

147,202. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BEAUFORD R. CAMP, San Francisco, Calif. Filed June 14, 1921. Serial No. 149,124.

Camp's Candy

Particular description of goods.—Candy.
Claims use since October, 1916.

147,203. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) C. B. C. FILM SALES CORPORATION, New York, N. Y. Filed July 23, 1921. Serial No. 150,850.

SCREEN SNAPSHOTS

Particular description of goods.—Motion-Picture Films.
Claims use since May 29, 1920.

147,204. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COHEN & EHRENBERG, New York, N. Y. Filed July 6, 1921. Serial No. 150,057.

GENUINE Panama CLOTH

Particular description of goods.—Woolen Piece Goods.
Claims use since May 1, 1913.

147,205. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DALTON MANUFACTURING CORPORATION, New York, N. Y. Filed Mar. 2, 1921. Serial No. 144,223.

DALTON

Particular description of goods.—Lathes and Lathe Parts.
Claims use since Apr. 24, 1917.

147,206. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANÇOIS JOSEPH DE SPOTURNO COTY, Suresnes, (Seine,) France. Filed Oct. 27, 1920. Serial No. 138,844.

COTY

Particular description of goods.—Perfumes, Toilet Waters, and Brilliantine, Including Perfumes for Face-Powders, Sachet-Powders, Lotions, Soap, and Dentifrices.
Claims use since 1905.

147,207. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DOMESTIC SEWING MACHINE COMPANY INC., Buffalo, N. Y. Filed Aug. 13, 1920. Serial No. 136,070.

Lessing

Particular description of goods.—Sewing-Machines.
Claims use since May 18, 1920.

147,208. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH DONNER, Chicago, Ill. Filed May 22, 1920. Serial No. 132,779.

Pili-Lysin

Particular description of goods.—Depilatories.
Claims use since Mar. 1, 1920.

147,209. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEO. R. ELDRIDGE CO., Detroit, Mich. Filed Feb. 26, 1921. Serial No. 144,070.

Greenville

Particular description of goods.—Eggs and Butter.
Claims use since April, 1920.

147,210. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE EMO CO., Portland, Me. Filed Oct. 19, 1920. Serial No. 138,481.

EGYPTIAN

Particular description of goods.—Cream for Use Particularly for Sunburn, Tan, Burns, Scalds, Chapped Hands, and Use After Shaving.
Claims use since 1895.

147,211. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ENGELBERG HULLER COMPANY, Syracuse, N. Y. Filed Apr. 29, 1921. Serial No. 146,061.

HALSTEAD

Particular description of goods.—Attrition-Mills.
Claims use since Sept. 29, 1902.

147,212. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) FRANCISCO AUTO HEATER CO., Columbus, Ohio. Filed Jan. 8, 1921. Serial No. 141,972.

FRANCISCO

Particular description of goods.—Vehicle-Heaters of the Type Utilising Engine Exhaust Heat.
Claims use since Jan. 1, 1919.

147,213. (CLASS 39. CLOTHING.) GOLDSMITH CLOTHING COMPANY, St. Louis, Mo. Filed Dec. 3, 1920. Serial No. 140,562.

Classy Made

Particular description of goods.—Men's and Boys' Suits.
Claims use since Nov. 1, 1919.

147,214. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) M. GOOSLIN, Eubank, Ky. Filed Feb. 14, 1921. Serial No. 143,554.

Gooslin's

Particular description of goods.—Ointment for the Treatment of Piles.
Claims use since January, 1917.

147,215. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE GORDON HOLLOW BLAST GRATE COMPANY, Greenville, Mich. Filed Mar. 9, 1921. Serial No. 144,520.

The "TOWER" ONE-MAN TWO-SAW TRIMMER

Particular description of goods.—A Two-Saw Trimmer.
Claims use since July, 1901.

147,216. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE GORDON HOLLOW BLAST GRATE COMPANY, Greenville, Mich. Filed May 6, 1921. Serial No. 147,286.

The "TOWER" EDGER

Particular description of goods.—Edgers.
Claims use since June, 1895.

147,217. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GORHAM CHOCOLATE CO., INC., Brooklyn, N. Y. Filed June 29, 1921. Serial No. 149,803.

GORHAM

Particular description of goods.—Candies.
Claims use since May 1, 1920.

147,218. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J. Filed June 18, 1921. Serial No. 149,310.

HARTFORD STATE
CALCUTTA

Particular description of goods.—Tea.
Claims use since about January, 1906.

147,219. (CLASS 39. CLOTHING.) FAY B. HARRIS, Elizabeth, N. J. Filed Apr. 2, 1921. Serial No. 145,627.

HARRIS
HEELLESS SHOE

Particular description of goods.—Shoes of All Leather, and Sport-Shoes of Leather and Fiber Construction for Men, Women, and Children.
Claims use since Feb. 11, 1920.

147,220. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) B. HELLER AND COMPANY, Chicago, Ill. Filed Feb. 12, 1921. Serial No. 143,495.

FANCY-PASTRY

Particular description of goods.—Baking-Powder.
Claims use since Mar. 1, 1907.

147,221. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) HEMP & CO. (CORP.), St. Louis, Mo. Filed Dec. 19, 1919. Serial No. 126,250.

CAN'T SLIP

Particular description of goods.—Stovepipes and Stovepipe-Elbows.
Claims use since about Dec. 1, 1890.

147,222. (CLASS 43. THREAD AND YARN.) HOLLAND MFG. CO., New York, N. Y. Filed June 7, 1921. Serial No. 148,797.

BEESWAXT

Particular description of goods.—Sewing-Thread for Hand, Machine, and Embroidery Work.
Claims use since Jan. 23, 1920.

147,223. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) HUGG-TITE PATCH CO., Wellston, Ohio. Filed Jan. 4, 1921. Serial No. 141,835.

HUGG-TITE

Particular description of goods.—Sheet-Rubber Patches.
Claims use since June 1, 1920.

147,224. (CLASS 12. CONSTRUCTION MATERIALS.) THE KELLEY ISLAND LIME & TRANSPORT COMPANY, Cleveland, Ohio. Filed Aug. 8, 1921. Serial No. 151,550.

"Spreads like warm butter"

Particular description of goods.—Hydrated Lime.
Claims use since May 1, 1920.

147,225. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LANDERS, FRARY & CLARK, New Britain, Conn. Filed Mar. 23, 1921. Serial No. 145,111.

COLUMBIA

Particular description of goods.—Meat-Juice Presses and Food-Choppers.
Claims use since Oct. 1, 1902.

147,226. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) LUDLUM STEEL COMPANY, Watervliet, N. Y. Filed June 4, 1920. Serial No. 133,262.

LUDLUM

Particular description of goods.—Alloy Chisel-Steel, Alloy Drawing-Die Steel, Alloy Pneumatic-Chisel Steel, Alloy Punch and Die Steel, Alloy Tool-Steel, Alloy Twist-Drill Steel, Ball-Bearing Steel, Carbon Tool-Steel, Carbon Twist-Drill Steel, Chrome Magnet-Steel, Drawing-Die Steel, Drill-Steel, Drop-Forge Die-Block Steel, Alloys Used for Electrical Heating Elements, Extrusion Die-Steel, Finishing-Steel, High-Speed Steel, Hot-Work Steel, Magnet-Steel, Non-Corrosive Steel, Non-Shrinking Tool-Steel, Pneumatic-Rivet-Set Steel, Razor-Steel, Alloys used for Resistance Elements, Roll-Steel, Rustless Steel, Tong-Bit Steel, Tool-Steel, Tungsten Magnet-Steel.
Claims use since Mar. 1, 1917.

147,227. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) LUDLUM STEEL COMPANY, Watervliet, N. Y. Filed June 4, 1920. Serial No. 133,269.

NEVA-STAIN

Particular description of goods.—Non-Corrosive Steel.
Claims use since Jan. 1, 1919.

147,228. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MOISE LICHTENTAG, New York, N. Y. Filed May 19, 1920. Serial No. 132,651.

KoolShav

Particular description of goods.—Shaving-Cream in the Form of Soap Paste.
Claims use since Apr. 20, 1920.

147,229. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN H. LICKERT, Evanston, Ill., assignor to Kit-chin-Kit Corporation, Evanston, Ill., a Corporation of Illinois. Filed Jan. 29, 1920. Serial No. 127,733.

Kit-chin-Kit

Particular description of goods.—Knives, Forks, Spatulas, and Carver-Steels.
Claims use since Dec. 30, 1919.

147,230. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LITTLEFIELD & STEERE CO., Knoxville, Tenn. Filed June 28, 1921. Serial No. 149,762.

CUMBERLAND

Particular description of goods.—Chocolates and Candies.
Claims use since 1904.

147,231. (CLASS 33. GLASSWARE.) MCKEE GLASS COMPANY, Jeannette, Pa. Filed June 23, 1921. Serial No. 149,550.

McKEE

Particular description of goods.—Headlight-Lenses.
Claims use since 1916.

147,232. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN J. MCNULTY, M. D., Boston, Mass., assignor to Davies, Rose & Company, Limited, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 4, 1921. Serial No. 145,699.

IRON-OPOS

Particular description of goods.—A Medicinal Preparation, Being an Association of Iron, Animal Ensyms, Suprarenal Substance, and Nux Vomica, for Faulty Blood Conditions and for Stimulating Nutrition and Bodily Activity.
Claims use since Mar. 1, 1920.

147,233. (CLASS 39. CLOTHING.) R. H. MACY & CO. INC., New York, N. Y. Filed Mar. 18, 1921. Serial No. 144,926.

LANSDOWNE

Particular description of goods.—Hats and Caps.
Claims use since 1913.

147,234. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MARBLE ARMS & MFG. COMPANY, Gladstone, Mich. Filed Dec. 21, 1920. Serial No. 141,385.

MARBLE'S

Particular description of goods.—Hunting-Knives, Fish-Knives, Safety Pocket-Axes, and Camp-Axes.
Claims use since Apr. 1, 1911.

147,235. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) W. H. MAZE COMPANY, Peru, Ill. Filed May 3, 1921. Serial No. 147,170.

Tinclad

Particular description of goods.—Nails.
Claims use since Sept. 10, 1914.

147,236. (CLASS 37. PAPER AND STATIONERY.) J. MEYERS STATIONERY & PRINTING CO., INC., New York, N. Y. Filed Apr. 25, 1921. Serial No. 146,719.

COMMERCE BOND

Particular description of goods.—Legal Paper, Letter-Paper, and Wrapping-Paper.
Claims use since about January, 1914.

147,237. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MURCHEY MACHINE & TOOL COMPANY, Detroit, Mich. Filed Mar. 7, 1921. Serial No. 144,407.

MURCHEY

Particular description of goods.—Collapsible Self-Opening Taps and Dies, Pipe-Threading and Pipe-Cutting Machines, and Boring-Bars.
Claims use since 1905.

147,238. (CLASS 39. CLOTHING.) THE MURPHY-GORMAN COMPANY, Danbury, Conn. Filed Mar. 7, 1921. Serial No. 144,405.

Emerson

Particular description of goods.—Soft, Stiff, and Velour Hats.
Claims use since 1898.

147,239. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) F. E. MYERS & BRO., Ashland, Ohio. Filed Apr. 23, 1921. Serial No. 146,642.

SELF-OILING

Particular description of goods.—Power-Pumps, Working-Heads, and Pump-Jacks.
Claims use since Nov. 17, 1919.

147,240. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NASHVILLE PURE MILK COMPANY, Nashville, Tenn. Filed Sept. 27, 1920. Serial No. 137,673.



Particular description of goods.—Butter.
Claims use since June 16, 1920.

147,241. (CLASS 35. BELTING HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE NORWALK TIRE & RUBBER COMPANY, Norwalk, Conn. Filed May 11, 1920. Serial No. 132,311.



Particular description of goods.—Rubber Vehicle-Tires.
Claims use since on or about July 1, 1914.

147,242. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) OLIVER OIL-GAS BURNER & MACHINE CO., St. Louis, Mo. Filed Nov. 15, 1920. Serial No. 139,676.



Particular description of goods.—Oil and Gas Burners.
Claims use since May, 1918.

147,243. (CLASS 43. THREAD AND YARN.) PENN WORSTED COMPANY, Philadelphia, Pa. Filed Aug. 23, 1920. Serial No. 136,304.



Particular description of goods.—Hand-Knitting Yarns of Every Description.
Claims use since Feb. 1, 1919.

147,244. (CLASS 12. CONSTRUCTION MATERIALS.) RAYMOND GRANITE COMPANY, INC., San Francisco and Los Angeles, Calif. Filed Jan. 3, 1921. Serial No. 141,805.

ORIGINAL RAYMOND

Particular description of goods.—Construction Materials—Namely, Interior and Exterior Building-Stone, Street-Curbing, and Cemetery-Coping.
Claims use since February, 1916.

147,245. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) JOHN D. ROSS, Pasadena, Calif. Filed July 14, 1921. Serial No. 150,373.

THE ROSS

Particular description of goods.—Sprinkler-Nozzles.
Claims use since Feb. 23, 1904.

147,246. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ALBERT SCHERER, New York, N. Y. Filed Feb. 28, 1921. Serial No. 144,156.



Particular description of goods.—Clinical Thermometers.
Claims use since Apr. 1, 1915.

147,247. (CLASS 43. THREAD AND YARN.) SEA ISLAND THREAD CO. INC., New York, N. Y. Filed June 9, 1921. Serial No. 148,990.

SATIN SILK

Particular description of goods.—Mercerised Thread on Spools, Tubes, and Cones.
Claims use since 1899.

147,248. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIÉTÉ ANONYME: DE LUZY, Neuilly-sur-Seine, France. Filed Jan. 27, 1921. Serial No. 142,858.

J.B.VARREL

Particular description of goods.—Perfumes, Toilet Waters, Rouges, Toilet-Powders, Dentifrices, and Brilliantine.
Claims use since October, 1919.

147,249. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) GILBERT I. STADEKER, Chicago, Ill. Filed June 26, 1920. Serial No. 134,274.

PEDALGRIPS

Particular description of goods.—Treads for Automobile-Pedals.
Claims use since about Apr. 1, 1920.

147,250. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE L. S. STARRETT COMPANY, Athol, Mass. Filed Mar. 24, 1921. Serial No. 145,174.

TIME SAVER

Particular description of goods.—Tap, Drill, and Wire Gages.
Claims use since about Jan. 1, 1898.

147,251. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) TEMPLETON MANUFACTURING CO., Hyde Park, Mass. Filed May 6, 1921. Serial No. 147,328.

STERLING

Particular description of goods.—Steam-Traps.
Claims use since Jan. 1, 1906.

147,252. (CLASS 39. CLOTHING.) TRUE SHAPE HOSIERY CO., Philadelphia, Pa. Filed May 2, 1921. Serial No. 147,138.

CROSS STITCH

Particular description of goods.—Hosiery.
Claims use since May, 1915.

147,253. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WALCOTT LATHE COMPANY, Jackson, Mich. Filed Sept. 17, 1920. Serial No. 137,296.

WALCOTT

Particular description of goods.—Lathes and Shapers and Parts of Lathes and Shapers.
Claims use since 1900.

147,254. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WEST ELECTRIC HAIR CURLER CO., Philadelphia, Pa. Filed Aug. 11, 1921. Serial No. 151,692.

West Electric Hair Curlers

Particular description of goods.—Hair-Curlers.
Claims use for more than 15 years.

TRADE-MARK REGISTRATIONS RENEWED.

19,402. WALL-PLASTER. Registered April 28, 1891. INTERNATIONAL ROCK PLASTER COMPANY, Jersey City, N. J., and Columbus, Ohio. Renewed April 28, 1921; Rock Plaster Corporation of New York.

19,977. POWDER FOR THE TOILET, NURSERY, AND SIMILAR PURPOSES. Registered August 4, 1891. THE COMFORT POWDER COMPANY, Hartford, Conn. Renewed August 4, 1921; The Comfort Powder Co., Inc.

20,650. A LINIMENT. Registered January 26, 1892. ERNESTINA LANDSMAN, New York, N. Y. Renewed January 26, 1922.

20,654. ICE RACING-SKATES AND RACING ROLLER-SKATES. Registered January 26, 1892. UNION HARDWARE COMPANY, Torrington, Conn., and New York, N. Y. Renewed January 26, 1922.

20,660. ICE RACING-SKATES AND RACING ROLLER-SKATES. Registered January 26, 1892. UNION HARDWARE COMPANY, Torrington, Conn., and New York, N. Y. Renewed January 26, 1922.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

PEIRCE *v.* TRIPP *v.* HOLLERITH.

Decided October 1, 1921.

1. INTERFERENCE—ACCESS TO PRELIMINARY STATEMENTS.
Where there are several parties to an interference and the preliminary statement of one of them fails to overcome the filing date or dates of a senior party or parties, *Held* that he is not, for this reason, to be denied access to the preliminary statement of any party junior to him in that interference.

2. SAME—SAME—RULE 111 CONSTRUED.
The "party or parties" referred to in Rule 111, paragraph 3, means the party or parties only whose filing date or dates has not been overcome by a junior party.

ON PETITION.

DISTRIBUTING-MACHINES.

Mr. D. Anthony Usina for Peirce.

Messrs. Hood & Sohley for Tripp.

Mr. D. L. McGill and *Mr. F. S. Maguire* for Hollerith.

KINNAN, *First Assistant Commissioner:*

This is a petition by the party Tripp for permission to examine the preliminary statement of Peirce sealed against him by the Examiner of Interferences under the provisions of Rule 111.

This is a three-party interference in which Tripp is the senior party as to Peirce, but the junior party as to Hollerith. Tripp has failed to set up in his pleadings a date of conception prior to the filing date of Hollerith, and therefore has no right to inspect the preliminary statement of Hollerith. Tripp is, however, senior to Peirce and is under an order to show cause why judgment should not be rendered against him. It is his view that an inspection of Peirce's preliminary statement may be of use in aiding Tripp in forming an action responsive to the order to show cause. The party Peirce contends that Tripp is no longer a party to this interference and should not be further considered; but it must be borne in mind that he is still a party to the interference until a judgment against him is rendered and the limit of appeal has expired.

It is believed, under the circumstances set forth in the petition, that Tripp should be permitted to inspect the preliminary statement of Peirce. The "party or parties" referred to in Rule 111, paragraph 3, means the party or parties only whose filing date or dates has not been overcome by a junior party.

The petition is granted.

DECISIONS OF THE U. S. COURTS.

U. S. Circuit Court of Appeals—First Circuit.

BECKER *v.* GENERAL CHAIN CO.

Decided May 12, 1921.

[273 Fed. Rep., 419.]

1. PATENTS—ASSIGNEE CAN PROSECUTE APPLICATION IN PATENT OFFICE AND BRING SUIT TO COMPEL ISSUANCE OF PATENT.
Under Revised Statutes, section 4895, (Comp. St., sec. 9430,) which permits a patent to be granted to an assignee and requires that in all cases of an application by an assignee the application shall be made and the specifications sworn to by the inventor, when construed in the light of the enactments from which it was taken, an assignee can prosecute an application in the Patent Office as expressly permitted by the Patent Office rules, and therefore can bring, in his own name the suit to compel the issuance of a patent authorized by section 4915, (sec. 9460,) which suit is in reality a continuation of the prosecution of the original application.

2. STATUTES—REENACTMENT AFTER CONSTRUCTION IS STRONG INDICATION OF INTENT TO ADOPT CONSTRUCTION.
Where Congress reenacted a statute some years after it had been construed and such construction was unquestioned for more than forty years after reenactment, those facts are a strong, if not conclusive, indication of the intent of Congress in the reenactment of the law to adopt the construction.

3. PATENTS—ASSIGNEE OF FULL INTEREST OBTAINS FULL TITLE, REGARDLESS OF HOW PATENT WAS ISSUED.
An assignee of the entire interest in an invention and right to a patent obtains full title when the patent is issued, whether the patent is issued to him on request made in the assignment or issued to the inventor, in the absence of such request in the assignment.

4. PATENTS—AFTER TIME FOR FILING BILL COURT CAN PERMIT ORIGINAL INVENTOR TO BE JOINED AS PLAINTIFF IN ASSIGNEE'S BILL.
Where an assignee of an invention had filed his bill, under Revised Statutes, section 4915, (Comp. St., sec. 9460,) to compel the issuance of a patent to him, within the time prescribed by section 4894, (sec. 9438,) the court could thereafter in its discretion authorize the original

inventor to be joined as a party plaintiff without affecting the right to maintain the suit, though the suit could not be maintained under those circumstances if the inventor was a necessary party to the original bill.

APPEAL from the District Court of the United States for the District of Massachusetts; George W. Anderson, judge.

Suit by Charles A. Becker against the General Chain Company to secure the issuance of a patent. From a decree dismissing the bill plaintiff appeals. Reversed and remanded.

Mr. Edwin J. Prindle (*Mr. Clarence O. McKay, Mr. Russell M. Everett*, and *Mr. Francis J. V. Dakin* on the brief) for the appellant.

Mr. A. D. Salinger for the appellee.

Before BINGHAM and JOHNSON, Circuit Judges, and ALDRICH, District Judge.

BINGHAM, *Cir. J.*:

This is an appeal from a decree of the district court for Massachusetts dismissing a bill in equity brought under section 4915, Revised Statutes, (Comp. St., sec. 9460,) by Becker, assignee through mesne assignments, dated January 26, 1916, and April 7, 1917, of the entire interest in the invention and application of Robert Hauschild, Serial No. 654,658, for Letters Patent filed October 14, 1911. The defendant is the General Chain Company, assignee of the invention and application, Serial No. 679,428, of Eugene Speidel. This assignment was made March 6, 1919, after a decision by the Court of Appeals of the District of Columbia (Mar. 3, 1919) in favor of the Speidel application in an interference proceeding between the two applications. (48 App. D. C., 419.) The Hauschild assignment was made pending the prosecution of his application in the Patent Office. This bill was filed March 2, 1920.

In the court below the defendant moved to dismiss upon the ground that the bill was brought by the assignee, instead of the inventor, Hauschild. The plaintiff filed a motion to amend by making Hauschild a party plaintiff. The latter motion was not made until after the expiration of one year from the last action of the Patent Office on the Hauschild application. The court denied the plaintiff's motion to amend and granted the defendant's motion to dismiss the bill.

It does not appear from the record whether the assignment executed by Hauschild contained a request to the Commissioner of Patents to issue the patent to the assignee. But it does appear that the assignments were duly recorded in the records of the Patent Office and that the plaintiff, after obtaining his assignment, prosecuted the application by taking an appeal from the decision of the Examiners-in-Chief to the Commissioner of Patents, and from his decision to the Court of Appeals of the District of Columbia.

It is contended on behalf of the defendant that the bill was properly dismissed for the reason that an assignee of an application for a patent, which has been denied by the Patent Office, is not a proper party to a bill under section 4915, as he is not an applicant within the meaning of that term as employed in the act; that, while proceedings under section 4915 are not appeals, but independent suits in equity, (*Greenwood* v. *Dover*, 194 Fed., 91; 114 C. C. A., 169,) they are, nevertheless, a part of the application for a patent, (*Gandy* v. *Marble*, 122 U. S., 432; 7 Sup. Ct., 1290; 30 L. Ed., 1223,) and in essence a continuation of the proceedings on the application in the Patent Office; that the provisions of law contained in section 4895, Revised Statutes, (Comp. St., sec. 9439,) and other sections preceding and following it relating to applications for patents, require that the application for the issue of a patent shall be made by the inventor or discoverer, if he is alive; that an assignee cannot make such an application; and that, if he does not come within the meaning of the provisions of law regulating an application in the Patent Office, he is not an applicant within the meaning of that term as employed in section 4915. In other words, its position is that the inventor, if living, is an indispensable party plaintiff in a bill in equity under section 4915.

Section 4915, Revised Statutes, (Comp. St., sec. 9460,) reads as follows:

> SEC. 4915. Whenever a patent on application is refused, either by the Commissioner of Patents or by the Supreme Court of the District of Columbia upon appeal from the Commissioner, the applicant may have remedy by bill in equity; and the court having cognizance thereof, on notice to adverse parties and other due proceedings had, may adjudge that such applicant is entitled, according to law, to receive a patent for his invention, as specified in his claim, or for any part thereof, as the facts in the case may appear. * * *

Section 4895, Revised Statutes, (Comp. St., sec. 9439,) is as follows:

> SEC. 4895. Patents may be granted and issued or reissued to the assignee of the inventor or discoverer; but the assignment must first be entered of record in the Patent Office. And in all cases of *an application by an assignee for the issue of a patent*, the application shall be made and the specification sworn to by the inventor or discoverer; and in all cases of an application for a reissue of any patent, the application must be made and corrected specification signed by the inventor or discoverer, if he is living. * * *

The subject-matter contained in section 4915 first appeared in section 16 of the act of July 4, 1836, (5 Stat. at L., 123.) Section 16 was amended by section 10 of the act of March 3, 1839, (5 Stat. at L., 354,) but not in a manner affecting the question here involved. It was reenacted in section 52 of the act of July 8, 1870, (16 Stat. at L., 205,) in the language now found in section 4915.

The subject-matter of section 4895 was first dealt with by Congress in section 6 of the act of March 3, 1837, (5 Stat. at L., 193.) It then read:

> SEC. 6. *And be it further enacted*, that any patent hereafter to be issued, may be made and issued to the assignee or assignees of the inventor or discoverer, *the assignment thereof being first entered of record*, and *the application* therefor being *duly made*, and *the specification duly sworn to by the inventor*. * * *

In section 33 of the act of July 8, 1870, (16 Stat. at L., 202,) section 6 of the act of 1837 was amended to read as follows:

> SEC. 33. *And be it further enacted*, that patents may be granted and issued or reissued to the assignee of the inventor or discoverer, the assignment thereof being first entered of record in the Patent Office; but in such case the application for the patent shall be made and the specification sworn to by the inventor or discoverer; and also, if he be living, in case of an *application* for reissue.

(1) Under either section 6 or section 33 an inventor could assign his right to obtain a patent, prior to filing an application and specification verified by his oath. Section 33 was amended in the Revised Statutes of 1878, and as now found in section 4895 authorizes an assignee to make application for the issue of a patent, and provides how he shall do it. In such case it requires that the application or petition shall be made—that is, signed—and the specification sworn to by the inventor or discoverer, if he is living. And the further provisions of the section recognize that if he is not living or is insane, the assignee must have the application or petition signed and the specification sworn to by the executor or guardian of the inventor, (section 4896 [Comp. St., sec. 9440.]) This not only plainly appears from section 4895, but is evidently the meaning placed upon it by the Patent Office, for, in this very proceeding the plaintiff, after obtaining his assignment, was permitted to prosecute the application in the Patent Office, and did so during the greater portion of the proceedings in that office. See Revised Statutes, sections 4909, 4910, 4911, act of Feb. 9, 1893, 27 Statutes at Large, chapter 74, section 9, (Comp. St., secs. 9454–9456.)

Then again rule 17 of the Patent Office provides that "an applicant or an *assignee of the entire interest* may prosecute his own case," and rule 5 that "the assignee of the entire interest of an invention is entitled to hold correspondence with the office to the exclusion of the inventor." Under the latter rule it is held that upon the request of such an assignee the inventor shall be excluded from participation in the proceedings. See *Stoddard's Annotated Patent Office Rules*, pages 10, 11.

Instead, therefore, of an assignee being unable to prosecute an application in the Patent Office under section 4895, as the defendant contends, the contrary is true, for the law authorizes and the practice and rules of the Patent Office permit it; and, as a proceeding under section 4915 is in reality a continuation of the prosecution of the original application, there would seem to be no reason why the assignee of the entire right to a patent, who is permitted to prosecute an application in the Patent Office under section 4895, should not be allowed to do so in this court under section 4915.

It is also to be noted that in 1849, Mr. Justice Nelson of the Supreme Court, sitting as circuit justice in the Circuit Court for the Southern District of New York, in the case of *Gay* v. *Cornell*, (10 Fed. Cas., 110, Case No. 5,280,) had under consideration the right of an assignee to prosecute a bill in equity under section 16 of the act of July 4, 1836, as amended by the tenth section of the act of March 3, 1839, the predecessor of section 4915, and that, at the time the case then under consideration arose, the sixth section of the act of March 3, 1837, the predecessor of section 4895, was in existence. And it was held that the assignment was valid and the bill properly brought in the name of the assignee. The decision reads:

> Nelson, Circuit Justice. The sixteenth section of the act of July 4, 1836, speaks of the party making the application for the patent, as the proper person to file a bill in case of a refusal by the Board of Examiners to grant the patent [the chief justice of the District of Columbia was afterward substituted in their place], and, doubtless, referred to the inventor, as no provision then existed authorizing him to assign his interest before the issuing of the patent. But, the sixth section of the act of March 3, 1837, (5 Stat., 193,) provides, that any patent thereafter to be issued, may be issued to the assignee of the inventor, the assignment being first entered of record; the application still to be made in the name of the inventor, and the specification to be sworn to by him. After the assignment of the invention, under this section, by which the inventor divests himself of all interest therein, and transfers it to the assignee, although the application for the patent must be made in his name, in conformity with the statute, still, for all substantial purposes, and in judgment of law, the assignee is the party making the application, and, we think, comes, if not within the letter, at least within the spirit of the provisions of the sixteenth section of the act of 1836, and of the tenth section of the act of March 3, 1839. He would, no doubt, be held liable as such for the expenses mentioned in the latter part of the sixteenth section, and for any other to which the applicant might become subject. * * *
>
> Upon the whole, we think the assignment is valid, and the bill properly filed in the name of the assignee, he being the only real party in interest, and that the averments and facts set forth therein show a sufficient title prima facie in him to the patent, on the ground that Perry was the first and original inventor.
>
> Demurrer overruled.

(2) It is not to be forgotten that, after the lapse of twenty years from the decision of Mr. Justice Nelson interpreting the meaning of the words "applicant" and "application" in section 16 of the act of July 4, 1836, construed in the light of the sixth section of the act of March 3, 1837, Congress, in 1870, reënacted section 16, using the same language, so far as the question here is concerned, and no doubt did so with full knowledge of the meaning which the court had put upon the words twenty years before, and that that construction, so far as we can ascertain, has not been questioned down to the present time. This is a strong, if not conclusive, indication of the intent of Congress in the reënactment of the law. It is also made evident that Congress had in mind the decision of Mr. Justice Nelson when, in the Revised Statutes in 1878, it enacted section 4895, amending section 33, and expressly provided for "an application by an assignee," making the letter of the law comply with its spirit.

(3) It has been held time and again that an assignee of the entire interest in an invention and right to a patent obtains full title, when the patent is issued, and that this is so whether the patent is issued directly to him, a request to that effect having been made in the assignment, or whether it is issued to the inventor, no such request having been made in the assignment. (*Gayler* v. *Wilder*, 10 How., 476, 491–494; 13 L. Ed., 504; *Railroad* v. *Trimble*, 10 Wall., 367; 19 L. Ed., 948; *Wende* v. *Horine*, (C. C.,) 191 Fed., 620; *Individual Drinking Cup Co.* v. *Osmun-Cook Co.*, (D. C.,) 220 Fed., 335; *Colman et al.* v. *American Warp Drawing Machine Co.*, D. C.,) 235 Fed., 531; *Thoma* v. *Perri*, (D. C.,) 205 Fed., 632.)

As the assignee of the entire interest in an invention is the only party directly interested in the prosecution of an application for a patent, there can be no doubt of his right to institute proceedings under section 4915. The court below erred in dismissing the bill.

(4) The bill having been properly brought by the assignee within the time allowed by law, it was

within the discretion of the court to permit the inventor, Hauschild, to be joined as a party plaintiff. If the assignee had not the right to institute the suit, it may be doubtful whether such an amendment could be allowed after the expiration of the time prescribed by section 4894, Revised Statutes, (Comp. St., sec. 9438) in the absence of proof disclosing that the delay was unavoidable. But, as we have no such question here, we refrain from deciding it.

If in *Wende* v. *Horine*, (C. C., 191 Fed., 620,) the inventor was rightly allowed to prosecute a bill under section 4915, it would seem that it must have been upon the ground that he was technically an applicant within the meaning of that section and was under some duty to prosecute the same to protect the interest of the assignee. Apparently the court in that case overlooked certain language contained in section 4895 and reached a conclusion different from what it otherwise might, for in quoting from that section it omitted the clause—"And in all cases of an *application by an assignee* for the issue of a patent"—recognising the right of an assignee to make an application, and only quoted the portion which states that "the application shall be made and the specification sworn to by the inventor or discoverer," which, as previously pointed out, simply shows how "an application by an assignee" shall be made—that is, that the application or petition shall be signed and the specification sworn to by the inventor or discoverer.

The decree of the district court is reversed, and the case is remanded to that court for further proceedings not inconsistent with this opinion, with costs to the appellant.

ADJUDICATED PATENT.

(U. S. D. C. Pa.) The Patton patent, No. 1,301,598, for paper lining for finger-bowls, *Held* valid and infringed. *Patton* v. *Clegg*, 274 Fed. Rep., 118.

Patents Nos. 1,392,898 to 1,393,731.

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office.

Vol. 291—No. 2. TUESDAY, OCTOBER 11, 1921. Price—$5 per year.

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THOMAS E. ROBERTSON,
Commissioner of Patents.

Adverse Decisions in Interference.

PATENT NO. 1,359,913.

On September 14, 1921, a decision was rendered that William W. Owen was not the first inventor of the subject-matter covered by claims 1, 3, 5, 6, 18, and 20 of his Patent No. 1,359,913, subject, "Measured-service telephone systems," and no appeal having been taken within the time allowed such decision has become final.

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 27, 1921.

The All in One Tractor Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Stroud Motor Manufacturing Ass'n., Ltd., of 117 East Houston street, San Antonio, Tex., for registration of a trade-mark and trade-mark registered April 22, 1913, No. 91,271, to The All in One Tractor Company, Waterloo, Iowa, and a notice of such interference sent by registered mail to The All in One Tractor Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless The All in One Tractor Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

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H. J. Nice Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Percy Pierce, 445 North Fifth street, Philadelphia, Pa., for registration of a trade-mark and trade-mark registered December 28, 1909, No. 76,281, to H. J. Nice Company, 15 Northeast Fifth street, Minneapolis, Minn., and a notice of such interference sent by registered mail to said H. J. Nice Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said H. J. Nice Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

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DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., October 7, 1921.

Isaac Newlin, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Simon Levi Company, 715 J Street, San Diego, Calif., for registration of a trade-mark and trade-mark registered April 4, 1911 No. 81,407 to Isaac Newlin of New York, N. Y., and having failed to obtain service upon the registrant, notice is hereby given that unless said Isaac Newlin, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

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In the first sentence thereof the words "certificates of deposit" are canceled.

The third sentence, which reads as follows, is canceled:

"Payment may also be made to the Treasurer, or to any of the Agistant Treasurers of the United States, or to any of the depositaries, national banks, or receivers of public money, designated by the Secretary of the Treasury for that purpose, who will issue a certificate of deposit in triplicate and will forward the original and the duplicate certificates to the Secretary of the Treasury and the Commissioner of Patents, respectively, and will give the triplicate certificate to the depositor."

The rule as amended reads as follows:

194. All payments of money required for Office fees must be made in specie, Treasury notes, national-bank notes, post-office money orders, or certified checks. Money-orders and checks should be made payable to the "Commissioner of Patents." Money sent by mail to the Patent Office will be at the risk of the sender. Letters containing money should be registered. In no case should money be sent with models.

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Condition of Applications Under Examination at Close of Business October 1, 1921.

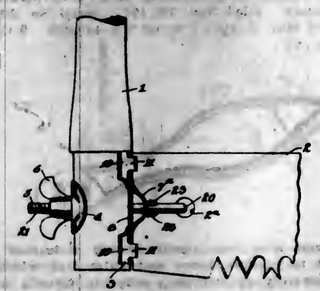
Room No.	Divisions, Examiners, and subjects of inventions. (Oldest new case, Oct. 11; oldest amended, Dec 4.)	Oldest new application and oldest amendment actually acted upon by the Patent Office action. New.	Amended.	No. of cases under consideration.
314	1. LOEFFLER, F. S., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Implements.	Apr. 28	May 7	744
126	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco Treating; Plants and Flowers.	Jan. 3	Feb. 18	1,671
175	3. RICH, WM. J., Electric Heating and Electrolysis; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Jan. 10	Dec. 24	831
294	4. MERRITT, A. D., Conveyors; Conveyors, Fluid-Current; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Bodies.	Oct. 11	Apr. 11	1,709
167	5. MACNAB, J. F., Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Nov. 29	Jan. 12	934
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Mar. 10	June 17	987
212	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes.	Mar. 18	May 28	1,825
131	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Stove Furniture; Supports.	June 16	Aug. 15	714
321	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Nov. 13	July 27	1,021
295	10. MITCHELL, T. E., Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Mar. 12	July 11	1,[illegible]
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Buttons, Eyelet, and Rivet Setting; Hosiery; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	June 15	July 16	[illegible]
223	12. PIERCE, F. F., Machine Elements.	Feb. 17	May 28	1,174
230	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Nov. 16	July 18	1,609
203	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Dec. 6	July 18	833
268	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Oct. 22	Feb. 16	1,767
111	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony.	Oct. 22	Feb. 8	1,779
207	17. RAFTER, G. S., Casting, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Jan. 31	May 13	971
220	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Dec. 6	Feb. 15	1,745
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Nov. 29	Mar. 19	909
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Apr. 6	May 23	1,429
312	21. THURBER, W. L., Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Mar. 1	June 6	664
240	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making.	May 16	July 8	541
317	23. GROSSECK, W. D., Accounting; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Dec. 21	June 8	824
144	24. DARBY, J. J., Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines.	Jan. 10	May 5	1,085
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	July 18	July 20	303
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime Mover Dynamo Plants.	Feb. 12	Apr. 28	805
314	27. ANDERSON, L. S., Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus.	Apr. 1	June 2	1,460
123	28. BENSON, A. R., Internal-Combustion Engines.	Jan. 20	Apr. 25	1,483
147	29. MORRIS, B., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Feb. 2	July 12	751
183	30. SULLIVAN, M. E., Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines.	Feb. 15	July 19	1,202
173	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Oct. 27	Jan. 5	2,032
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange.	Dec. 2	July 1	1,023
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Mar. 21	Apr. 30	729
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Snow Service; Track-Sanders; Vehicle-Fenders.	July 29	July 27	310
57	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	June 25	Aug. 8	663
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	May 3	Apr. 16	1,506
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers.	Feb. 4	Feb. 5	1,590
278	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	May 2	May 3	1,168
220	39. COWLES, A. W., Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Oct. 27	Jan. 10	1,978
273	40. OBERLIN, J. J., Receptacles; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Jan. 10	Mar. 18	2,216
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels.	Apr. 7	Apr. 7	853
114	42. CUTTING, H. C., Electrical Conduits and Housings; Electric Signaling; Electric Lamps.	Dec. 7	Dec. 4	2,430
269	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Dec. 20	Jan. 11	1,407
289	44. SHAFFER, C. H., Air-Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration Ships.	Jan. 10	July 5	484
227	45. GILES, A. H., Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices.	Mar. 10	Apr. 14	1,175
232	46. WOLCOTT, C. L., Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Mar. 3	Mar. 10	1,124
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid Pressure Brake and Analogous Systems.	Jan. 19	Apr. 27	1,131
	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications.	Jan. 26	Feb. 2	764
136	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, Jr.			
	Trade-Marks.	Nov. 13	July 23	4,101
	Designs.	Mar. 21	Apr. 18	2,235
	Labels and Prints.	Aug. 1	Sept. 26	77

216 Total number of applications awaiting action, excluding Trade-Mark division, 56,361; Trade-Mark division, 6 413.

PATENTS

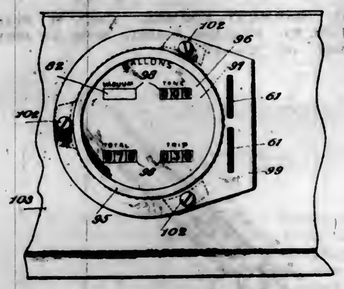
GRANTED OCTOBER 11, 1921.

1,392,898. HANDLE FOR CROSSCUT-SAWS. PERCY C. ABBOTT, Richmond, Va. Filed June 26, 1920. Serial No. 391,974. 4 Claims. (Cl. 145—111.)



1. In a saw handle, a butt plate having parallel arched bosses between its ends extending longitudinally of the plate and an intermediate strip flush with the surface of the plate, said intermediate strip having a perforation for the passage of a bolt adapted to confine the saw blade between the inner side of one of said arched portions and said bolt.

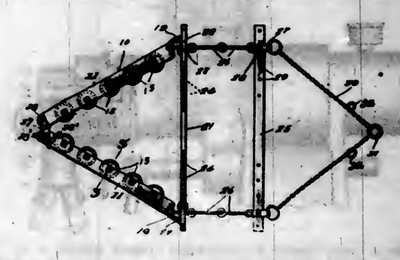
1,392,899. REGISTER. JACOB J. ALBRIGHT, Columbus, Ga., assignor of one-third to James H. Fariah and one-third to B. Crawford Jenkins, Columbus, Ga. Filed Feb. 6, 1918. Serial No. 215,622. 11 Claims. (Cl. 235—94.)



1. In a register, the combination, with a frame, of independent counter groups rotatably sustained by the frame, means for actuating the counter groups for advancing the counter wheels thereof, means for preventing retrograde movement of each of the counter groups, and means connecting the retrograde movement preventing means of the counter groups for rendering the same effective, said connecting means being independent of the frame except through engagement with the retrograde movement preventing means.

1,392,900. BOG-CUTTER, GRUBBER, AND WEEDER. CHARLES ALBERT AMBROSE, Carson City, Nev. Filed Apr. 11, 1921. Serial No. 460,481. 7 Claims. (Cl. 55—62.)

1. A bog cutter, grubber and weeder, comprising a V-shaped frame having side members connected for adjustment angularly with respect to each other, said frames having upright cutters, at the ends thereof and a plurality of rotatable cutters along the inner edges thereof



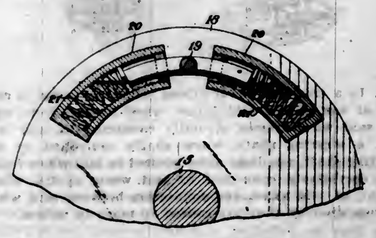
in opposed relation, and means for advancing the frame in the direction of the ends thereof provided with the upright cutters.

1,392,901. BATHTUB. ELMER ADAIR, Chicago, Ill., assignor of one-fourth to Casper J. Wessel, Chicago, Ill. Filed Feb. 25, 1921. Serial No. 447,725. 4 Claims. (Cl. 4—27.)



1. The combination of a bathtub, a frame resting on the upper edge of said tub, a pipe resting on said frame, a housing supported by said frame and covering said pipe, the inner edge of said housing being spaced away from said frame, said pipe having holes in its walls, and means for passing water under pressure into said pipe.

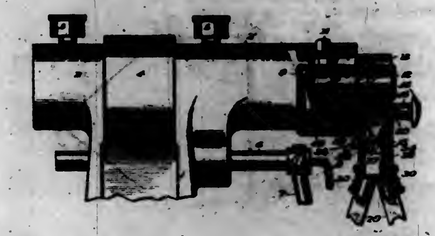
1,392,902. SHOCK-ABSORBER. ERNIE ADAMSON, New York, N. Y. Filed July 30, 1920. Serial No. 400,046. 3 Claims. (Cl. 64—100.)



1. A driving connection adapted to absorb driving shocks, consisting of a pair of spaced parallel supporting members, arcuate cylinders partially filled with fluid and spaced apart in pairs on one of said members, the cylinders of each pair having reduced openings at their inner adjacent ends, a plunger outstanding from the other member between the cylinders of each pair and having arcuately curved pistons projecting oppositely therefrom and into the said cylinders, the said pistons slidably in-

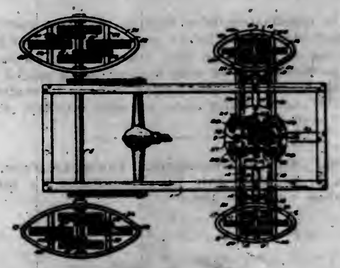
terfitting the reduced openings of the cylinders and being spaced throughout their lengths from the cylinder walls, and a spring in each cylinder moving in the fluid thereof and engaging the adjacent end of the respective piston.

1,392,903. EDGE SETTING AND BURNISHING MACHINE. OTIS R. ANGELL, Haverhill, Mass., assignor to Hamel Shoe Machinery Company, a Corporation of Massachusetts. Filed Mar. 30, 1918. Serial No. 225,672. 27 Claims. (Cl. 12—78.)



10. In an edge setting machine, in combination, a tool-supporting member, a tool holder mounted for rotation thereon, the opposed surfaces of said parts being provided with alined openings, a spring pressed latch pin slidable in the opening of said holder and arranged to be normally projected into locking engagement with the opening in said member, and an element slidable in said latter opening for disengaging said latch pin therefrom.

1,392,904. TRACKLESS POWER-DRIVEN VEHICLE. AXEL EMIL ARONS, Peoria, Ill. Filed Feb. 11, 1920. Serial No. 357,967. 2 Claims. (Cl. 180—22.)



1. In a trackless power-driven vehicle, a frame, a cross bar at one end of said frame, wheel-frames, front axles for said wheel-frames pivotally connected to said cross bar, a steering shaft, worm shafts controlled by said steering shaft, auxiliary axles pivoted to said wheel-frames and operatively connected to said worm shafts, wheels for all of said axles, and connection between said wheel-frames whereby they are caused to move in unison.

1,392,905. PROCESS OF MAKING POTASSIUM BROMID. EDWIN O. BARSTOW and COULTER W. JONES, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed May 17, 1917. Serial No. 169,178. 8 Claims. (Cl. 23—13.)

1. In a method of making substantially pure potassium bromid from potassium carbonate containing a relatively small admixture of sodium carbonate, the steps which consist in reacting on such mixed carbonates in solution with free bromin, whereby a solution of mixed bromids is formed; and boiling such solution to a point beyond hot saturation and then cooling to not lower than 50° C., whereupon substantially pure potassium bromid crystallizes out.

1,392,906. INSOLE AND THE METHOD OF MAKING THE SAME. GEORGE H. BLACK, Rochester, N. Y., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 10, 1917, Serial No. 201,378. Renewed Mar. 2, 1921. Serial No. 449,239. 9 Claims. (Cl. 36—22.)



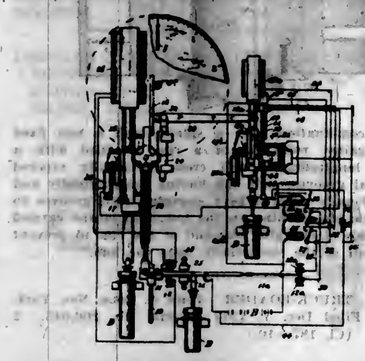
1. A welt shoe sole insole having a leather body channeled to produce inner and outer lips which are turned upwardly against each other to form a sewing rib and to receive the stitches which connect the insole, upper and welt, a fabric reinforcement covering the channeled face of the insole from the heel breast line forwardly and having marginal portions thereof included in the sewing rib, and a lip strengthening element arranged in the toe of the insole between said leather body and said fabric reinforcement and comprising a triangular piece of tough material adhesively connected with the leather body in the point of the toe inside said rib and positioned wholly forward of the ball line and having two upturned portions connected to the inner face of said rib and lying between said rib and and said fabric reinforcement.

1,392,907. GARMENT-FORMER. CECIL H. BOYULS, Louisville, Ky. Filed Mar. 5, 1921. Serial No. 450,045. 7 Claims. (Cl. 223—17.)



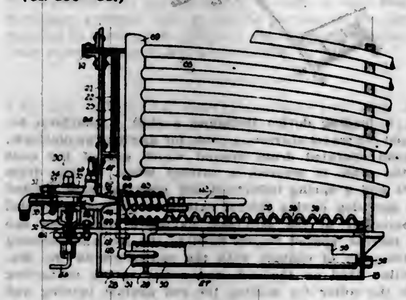
1. In a garment former, a body portion, wings at the sides of the body portion, means to move said wings toward and from the body sides, and tail clamps carried by and movable with the wings.

1,392,908. AUTOMATIC SCALE. JAMES W. BATCH, Bloomfield, N. J., assignor to The Computing Scale Company, Dayton, Ohio, a Corporation of Ohio. Filed Jan. 29, 1917. Serial No. 145,132. 21 Claims. (Cl. 265—70.)



1. In a scale, the combination with a movable support for the load, and yielding means to oppose the gravity pull of the load, of means normally inactive but adapted to be put in operation by the movement of said support to exert through said yielding means a counter-pull just sufficient to counterbalance the load.

1,392,909. BURNER. OSCAR F. CARLSON, Chicago, Ill. Filed June 9, 1919. Serial No. 302,735. 10 Claims. (Cl. 158—81.)



1. In combination, a boiler casing, a burner having a vaporizing conduit, a mixing chamber, a nozzle communicating with the vaporizing conduit and discharging into the mixing chamber and an air jacket supplying heated air to the mixing chamber, said air jacket contiguously bordering the burner so as to be immediately subject to the heat generated thereby.

1,392,910. RETAINER FOR MOTION-PICTURE-FILM REELS. ELIJAH M. CHASE, Cheyenne, Wyo. Filed Jan. 11, 1921. Serial No. 436,560½. 4 Claims. (Cl. 206—53.)



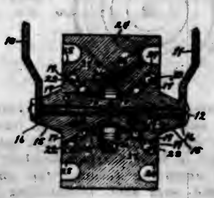
1. A device of the character described including a guide member, a band having one end secured to the guide member and its other end adapted to be removably disposed within the guide member and a spring actuated catch carried by the guide member and adapted to engage the free end of the band to retain the same in position within the guide.

1,392,911. SWIVEL-CASTER. JOHN LOUCIEN CHESNUTT, Long Beach, Calif. Filed Apr. 29, 1921. Serial No. 465,586. 6 Claims. (Cl. 16—21.)



2. A swivel caster, comprising a wheel yoke, a wheel journaled therein, a stem extending upwardly from said yoke, a socket member closed at its upper end and fitting loosely over said stem, means for retaining said stem in said socket member and permitting relative rotary movement of said members on a vertical axis, a series of bearing balls between the upper ends of said stem and socket member receiving downward pressure only, a series of bearing balls between the sides of the lower end portions of said stem and socket member receiving lateral pressure only, said socket member adapted to be received within an apertured load object, said socket member being flanged at its lower end and adapted to be secured and centered relative to said load object by said flange circumferentially of the aperture therein, and resilient means carried by the upper end of said socket member and adapted to contact the inner wall of the aperture of said load object.

1,392,912. BALL-BEARING STRING-PROOF WHEEL. JOHN LOUCIEN CHESNUTT, Long Beach, Calif. Filed Apr. 29, 1921. Serial No. 465,587. 4 Claims. (Cl. 16—46.)



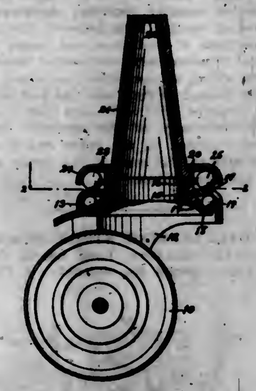
2. A device of the class described, comprising spaced wings, axle members mounted end to end between said wings, a securing member extending through said axle members and wings and binding them rigidly together, an annular tread member rotatably mounted on said axle members, and anti-friction devices between said axle members and the tread member, said axle members being formed with outstanding flanges between their ends, said tread member being formed with laterally extending flanges at its opposite ends overhanging and slightly spaced from the outstanding flanges, said axle members being formed tapering from said outstanding flanges to their outer ends and merging into the lower ends of said wings.

1,392,913. SWIVEL-CASTER. JOHN LOUCIEN CHESNUTT, Long Beach, Calif. Filed Apr. 30, 1921. Serial No. 465,886. 6 Claims. (Cl. 16—21.)



3. In a swivel caster, a wheel yoke, a wheel pivoted therein and trailing relative to the vertical axis of said caster, a retaining member of circular form secured rigidly on said wheel yoke, a shell mounted concentrically of said retaining member and formed with a flange at its lower margin extending beneath said retaining member, a row of bearing balls on said flange and contacting said retaining member, said balls adapted to receive lateral pressure only, a top plate on and secured to said shell, a row of balls on said retaining member in contact with said top plate and receiving vertical pressure only, both rows of balls being of relatively large diameter and extending outside of the vertical plane of the axis of rotation of said wheel.

1,392,914. SWIVEL-CASTER. JOHN LOUCIEN CHESNUTT, Long Beach, Calif. Filed Apr. 30, 1921. Serial No. 465,887. 3 Claims. (Cl. 16—21.)



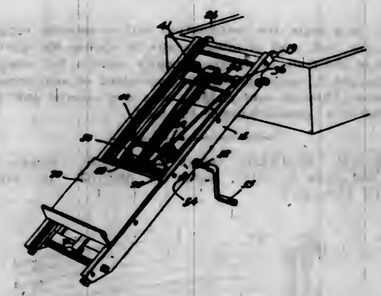
2. A swivel caster, comprising a wheel yoke and wheel pivoted therein, said wheel yoke being formed with a cylindrical body and with an annular plate on the upper end thereof, a load bearing member including a cylindrical shell extending through the annular plate of the wheel yoke, said shell terminating in a downwardly and outwardly projecting flange extending beneath the plate of the wheel yoke, said flange being formed peripherally with an external raceway, an annular row of balls mounted in said raceway and contacting the walls of said shell and annular plate, said shell being formed at its upper end with a flange or shoulder, a hollow stem integrally formed with said shell and extending upwardly from said flange or shoulder, a cupped washer arranged concentrically of said stem and supported rigidly on said flange or shoulder, said stem and cupped washer adapted to support a load object, and an annular row of bearing balls mounted within said cupped washer and resting on the annular plate of the wheel yoke, said last-named balls having a freedom of movement laterally and receiving downward pressure only.

1,392,915. HUB FOR GEARS, PULLEYS, AND TOOLS. JAMES LOUIS CLENDENON, Bessley, Ala. Filed Aug. 5, 1920. Serial No. 401,461. 6 Claims. (Cl. 64—17.)



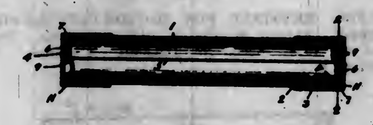
1. The combination with a spindle and a hub fixed thereon against rotation; of a rim provided with a series of longitudinally and cross sectionally tapered longitudinal grooves, said hub having longitudinally and cross sectionally tapered keys engaging said grooves to prevent said rim turning on the hub, and means carried by the hub and engaging one end of the rim to prevent displacement of the rim axially from the hub.

1,392,916. TRUCK-LOADER. JOHN A. COLE, New York, N. Y. Filed Dec. 7, 1917. Serial No. 206,045. 2 Claims. (Cl. 187—10.)



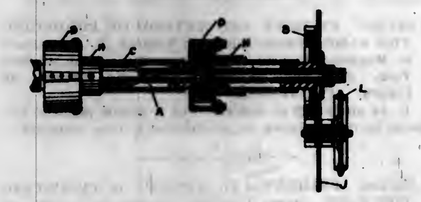
2. A loading device including a skid, a platform arranged for travel thereon, a cable for moving the platform, a hand operated drum around which one of the ends of the cable is secured, a ratchet wheel on the drum shaft and a spring influenced dog engaging said ratchet and said dog having lateral extensions; a rod journaled transversely of the skid and having a handle on one end thereof, spaced fingers fixed to the rod and disposed in the path of contact with the extensions on the dog, a collar fixed on the rod, and a flat spring contacting with the collar for holding the rod against turning and for sustaining the rod in position when the same is turned.

1,392,917. RENEWABLE FUSE. FRANKLIN N. CONANT, Newburyport, Mass., assignor, by mesne assignments, to The Chase-Shawmut Company, a Corporation of Massachusetts. Filed Nov. 22, 1917. Serial No. 203,325. 14 Claims. (Cl. 200—132.)



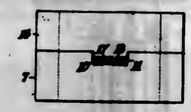
1. In an inclosed electric fuse of the cartridge type, the combination of a casing containing a fuse strip, an externally screw-threaded metal ferrule for the end of said casing having an end wall formed with an aperture having a straight side, wedging means to engage the fuse strip on the straight side of said aperture throughout its width, and means to engage a terminal portion of the fuse strip on the end wall adjoining said straight side, both said engaging means being removable, and an end cap arranged to apply pressure to both of said engaging means to firmly hold the terminal portion of the fuse strip.

1,392,918. CONSTRUCTION OF ROLLING DOORS, SHUTTERS, AND CURTAINS. JOHN M. CORNELL, Seabright, N. J. Filed Nov. 8, 1919. Serial No. 336,768. 2 Claims. (Cl. 189—57.)



1. The combination with a rolling curtain or the like, of a stationary shaft and supporting means, a spring housing loosely mounted on said shaft partly inclosing a counterbalancing spring for said curtain, a removable head or disk for said housing having an annular collar surrounding said shaft forming substantially an elongated hub for one side of said housing, operating means for rotating said housing, an elongated hub associated with said operating means, a tubular sleeve surrounding said shaft for connecting the elongated hubs of the housing and operating means, said sleeve being of such length as to extend just beyond the outer ends of said hubs in operative position and to permit access to the spring housing by a telescopic action of the sleeve and associated hubs after said parts are disconnected.

1,392,919. METALLIC-DENTURE-DRAWING DIE. ROBERT M. CRAIG, Wilkinsburg, Pa. Filed June 19, 1919. Serial No. 305,422. 10 Claims. (Cl. 205—26.)



10. Mechanism constructed and arranged to form an I-bar from a primarily plane strip of metal; including a die member having a trough shaped passage with a ridge extending transversely to the length of said passage corresponding with the desired concave configuration of the proximal face of the bar to be drawn; of another die member having a projection registering with said passage, and corresponding with the desired concave configuration of the proximal face of the bar to be drawn; whereby said strip may be reduced to form said I-bar by drawing it through said passage.

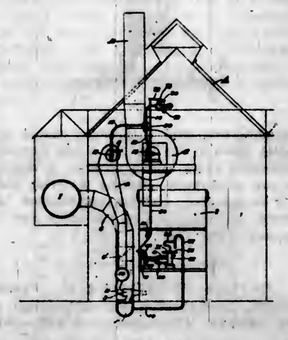
1,392,920. CAGE FOR ANTIFRICTION-BEARINGS. CLAYTON A. DANE and ALBERT A. KRAEMER, Philadelphia, Pa., assignors to The Hess-Bright Manufacturing Company, a Corporation of Delaware. Filed Sept. 1, 1920. Serial No. 407,471. 6 Claims. (Cl. 64—59.)

5. A ball retainer comprising a ring of solid metal of substantially rectangular cross sectional formation formed with pockets disposed radially thereof, there being a chanel formed around the mouth of each pocket forming an upstanding flange, the side lines of the ring touching the sides of such flange, there being also a cross channel



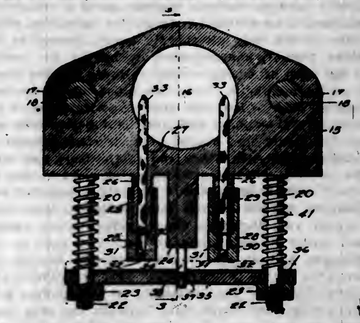
cut in the flange from side to side and a longitudinal channel thereby forming such flange into four lips.

1,392,921. APPARATUS FOR BURNING GASES. AMBROSE N. DIEHL, Duquesne, and FRANK E. LEAHY, McKeesport, Pa. Filed Jan. 22, 1921. Serial No. 439,322. 6 Claims. (Cl. 158—100.)



1. The combination with a gas burner having separate turbo-fans for supplying air for combustion and for withdrawing the products of combustion, of means operated by the pressure of the gas supplied to said burner for regulating the speed of both of said fans, so as to provide the correct amount of air for combustion and the correct draft for the different gas pressures.

1,392,922. AUXILIARY-AIR DEVICE. WILLIAM C. DILLON, Fort Dodge, Iowa. Filed Sept. 14, 1920. Serial No. 410,261. 7 Claims. (Cl. 277—51.)



1. An auxiliary air device, comprising a plate designed to be interposed in the path of travel of the fuel mixture

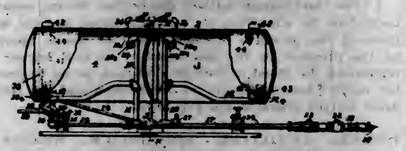
of an internal combustion engine, said plate having an opening, an extension on said plate, an opening extended through said extension and the body of the plate to said first opening, a cap mounted on said extension, a filtering device mounted in said last opening, said cap having an opening extending through it and a portion forming a valve seat, a ball valve for coacting with said seat, means for closing the passage at the outer end of the cap, said means comprising a bar slidably mounted on said plate.

1,392,923. TIRE-VALVE. GEORGE E. DRAPER, Pittsburg, Kans. Filed Jan. 31, 1921. Serial No. 441,251. 2 Claims. (Cl. 152—12.)



1. The combination with a threaded casing member of an automobile valve or the like, of a cap threaded to engage the threaded valve casing member, a sealing device within the cap comprising yielding material and a shell in which it is mounted, and an anti-friction ball interposed between the outer end of the shell and the inner wall of the end of the cap.

1,392,924. DUPLEX PUMPING-TRAP. FREDERICK C. FARNSWORTH, Conshohocken, Pa. Filed Sept. 30, 1918. Serial No. 256,168. 15 Claims. (Cl. 137—103.)



1. A tilting trap comprising a hollow body member pivoted upon a base to oscillate thereon about a transverse axis and having an automatic means for supplying water and steam to the body alternately under control of the oscillations thereof, characterized by having the hollow body in the form of a long tubular cylinder divided transversely at its middle to form two independent abutting compartments end to end and upon opposite sides of the transverse pivotal support and also having separate sets of pipes for steam and water to each compartment in rigid relation with each other and to the body and moving with the body, said steam and water pipes having independent terminals in alinement with the transverse axis of oscillation of the hollow body member, stationary water supply and discharge pipes having valves therein to permit water flowing freely to and from each of the compartments and in which the terminals thereof for supplying each of the compartments have an opening also in alinement with the pipe terminals on and moving with the body, swing joint connections between the said openings from the two sets of stationary water supply and discharge pipes and the respective water pipe terminals of the two compartments of the body, stationary pipes for supplying steam to the respective steam pipe terminals of the body also in alinement with the axis of oscillation thereof, swing joints between the steam terminals of the body and the respective stationary steam pipes for maintaining continuous open communication while permitting oscillation of the body, and valve devices mechanically operated by the oscillating body for controlling the supply of steam to and venting the air to the atmosphere from the two compartments alternately, whereby one of the compartments is filling with water and discharging the air into the atmosphere while the other compartment is filling with steam and discharging its water content, and vice versa.

1,392,925. PIGMENT AND METHOD OF PRODUCING THE SAME. PETER FIREMAN, Trenton, N. J., assignor to Magnetic Pigment Company, a Corporation of New York. Filed June 22, 1920. Serial No. 390,809. 10 Claims. (Cl. 134—59.)

1. As an article of manufacture, a yellow pigment produced by the oxidation of precipitated ferrous hydroxid.

1,392,926. PIGMENT AND METHOD OF PRODUCING THE SAME. PETER FIREMAN, Trenton, N. J., assignor to Magnetic Pigment Company, a Corporation of New York. Filed June 22, 1920. Serial No. 390,810. 8 Claims. (Cl. 134—59.)

1. As an article of manufacture, a voluminous red-brown pigment produced by the oxidation of precipitated ferrous hydroxid.

1,392,927. PIGMENT AND METHOD OF PRODUCING SAME. PETER FIREMAN, Trenton, N. J., assignor to Magnetic Pigment Company, a Corporation of New York. Filed June 22, 1920. Serial No. 390,811. 9 Claims. (Cl. 134—59.)

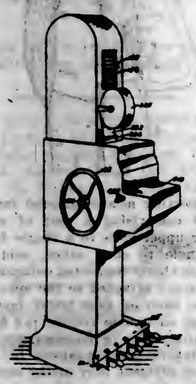
1. As an article of manufacture, a brown pigment in tan shades consisting of an oxidised precipitated ferrous hydroxid.

1,392,928. PUMP. MANTON E. FOSS, Wilder, Minn. Filed June 8, 1920. Serial No. 387,475. 5 Claims. (Cl. 230—27.)



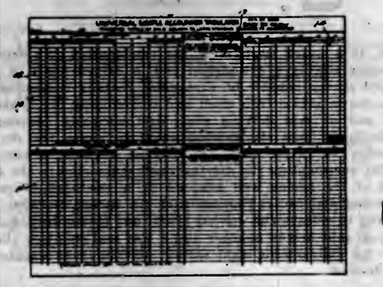
1. A pump comprising a pair of cylinders and a discharge tube arranged between them and having a hose at its upper end, a plunger in each cylinder, means for simultaneously moving the plungers, a check valve at the bottom of each cylinder for admitting air thereto, lateral ports at the ends of the cylinders communicating with the discharge tube, checks at the top of the said tube for permitting the admission of air to the cylinders on the down stroke of the plungers and for preventing the passage of air from the discharge tube to the cylinders and for permitting the passage of air from the cylinders to the hose on the up stroke of the plungers and for preventing discharge of the air to the atmosphere.

1,392,929. MACHINE FOR PRINTING AND ISSUING RAILWAY-TICKETS. FREDERICK L. FULLER, Bridgeport, Conn., assignor to The National Cash Register Company, Dayton, Ohio. Original application filed Oct. 27, 1916, Serial No. 128,008. Divided and this application filed Dec. 18, 1919. Serial No. 345,886. 20 Claims. (Cl. 101—66.)



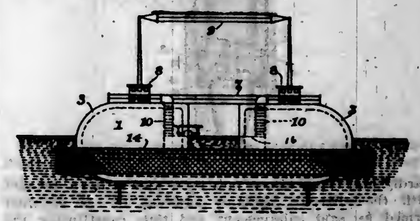
1. In a machine of the class described, the combination of a plurality of destination devices, means on each destination device adapted to print class designations on tickets, and means for moving the desired device differentially into position to print a designation of the desired class on the ticket.

1,392,930. MEANS EMPLOYED IN ACCOUNTING SYSTEMS. FRED GERTZ, Jr., Ellington, Mo. Filed Oct. 11, 1920. Serial No. 416,072. 2 Claims. (Cl. 283—66.)



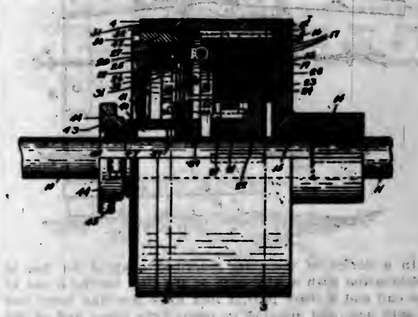
1. Means for book-keeping comprising a sheet for primarily recording transactions and divided into upper and lower sections, one section being appropriately designated for purchases and the other for sales, said sections being divided into corresponding vertical columns, the columns of each section being differentially headed for separate classes of transactions and each having a key character displayed at the top thereof, corresponding columns in the two sections being correspondingly keyed, and a sheet on which to transfer the primarily recorded transactions for permanent record, said last sheet being divided into vertical columns corresponding in number to the number of columns of the first sheet and having corresponding key characters, the purchase and sale columns of the second sheet being grouped together under a single key character, said second sheet being horizontally ruled into daily divisions.

1,392,931. HYDROPLANE-STATION. PAUL GERLI, New York, N. Y. Filed Jan. 21, 1919. Serial No. 272,280. 2 Claims. (Cl. 114—0.5.)



1. A hydroplane station composed of a hull, a superstructure built around three sides of a central open portion below the water-line forming a lagoon with restricted inlet, portions of said hull forming a submerged floor for said lagoon, said superstructure comprising houses for stores and having a deck with stairways leading down to the lagoon.

1,392,932. CLUTCH MECHANISM. HARRIS M. GRIFFIN, Boston, Mass. Filed Oct. 20, 1917. Serial No. 197,707. 8 Claims. (Cl. 192—69.)



1. In a clutching mechanism, a driving element, clutch plates carried thereby, a driven element, clutch plates carried thereby, said clutch plates adapted to be moved into clutching engagement for the conjoint rotation of said elements, an abutment carried by said driven member and spaced from a clutch plate carried by said driven member, said plate and abutment being conjointly rotatable, and operating mechanism for said clutching mechanism including two pressure rings adapted to be moved into engagement with said abutment and clutch plates to connect said driving and driven elements through said clutch plates, and a plurality of toggle links connecting said rings, said pressure rings and toggle links adapted for rotation independent of said driving and driven elements.

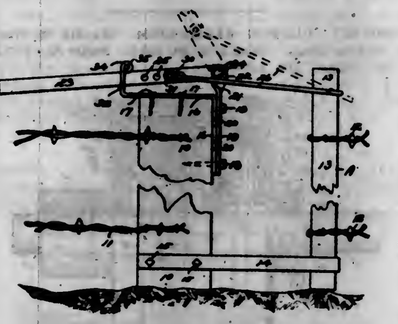
1,392,933. SPARK-PLUG. HORACE E. GILL, Yonkers, N. Y., assignor to Fan Flame Spark Plug Co., Yonkers, N. Y., a Corporation of New York. Filed Oct. 9, 1918. Serial No. 257,502. 2 Claims. (Cl. 123—169.)

1. In a spark plug, the combination with a vitreous insulator provided with an integral annular enlargement

and a two-part shell surrounding the same, of a single gasket interposed between said shell and insulator and comprising an annular metal trough with an elastic packing therein, the exposed face of said packing facing inwardly and being forced into tight and intimate contact with the vitreous insulator adjacent to the shoulder formed by said enlargement and thus constituting the packed joint between the insulator and shell, substantially as set forth.



1,392,934. GATE-FASTENER. WILLIAM F. GLANDT, Stanton county, near Leigh, Nebr. Filed Jan. 8, 1921. Serial No. 434,532. 1 Claim. (Cl. 292—247.)



In a device of the class described adapted for use in combination with a wire gate or the like, having a bar at one end and a fence post, a link fixed near the lower end of said post and adapted to receive the lower end of the bar of said gate, means for engaging and drawing the upper end of said bar toward the post and for locking it against movement, said last means including an inverted L shaped bracket having an upwardly extending bearing member fixed thereto, the upper end of said bracket being provided with a portion formed parallel with one side of the bracket, and provided with a notch, a loop formed on the upper end of said last portion, a lever pivotally mounted in said bearing member, said lever being provided with a plurality of openings, a link capable of being selectively received in any of said last openings and capable of pivotal movement therein, said link being formed of a single rod having an eye formed on one end and having its other end screw threaded, said screw threaded end being adapted to extend through said eye and a nut for said screw threaded end for completing and securely holding the link in position, said link being designed to engage the upper end of said bar and when said lever is swung on its pivot, to move said bar toward said post, the lever being received in said notch below said loop, a pin adapted to extend through said loop for locking said lever when in one position against movement, the parts being so arranged that when the lever is in its locked position the link pivoted thereon will pass below center, for normally tending to hold the lever in its locked position.

1,392,935. SUSPENDERS. DAVID GLICKMAN, Chicago, Ill. Filed June 17, 1918. Serial No. 240,350. 1 Claim. (Cl. 2—96.)



Trousers supporting means adapted for wearing under the outer shirt comprising a pair of short suspenders secured at their upper ends to a single fastener and disposed at an angle to each other, said fastener being adapted to be pinchingly connected detachably to the under shirt, and a fastener attached to the lower end of each of said suspenders, each of said latter fasteners having a looped part large enough to receive the body of a button and communicating with a downwardly disposed notch, said latter fasteners being adapted to receive trousers buttons with the adjacent part of the outer shirt gripped thereby.

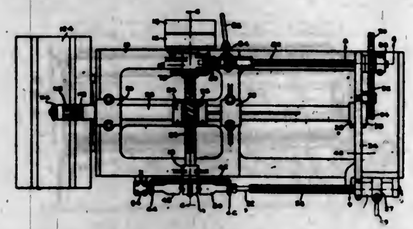
1,392,936. CLUTCH MECHANISM. OTTO W. GREENE, Elyria, Ohio, assignor to The Greene Aeronautical Company, Elyria, Ohio, a Corporation of Ohio. Filed Jan. 22, 1919. Serial No. 272,427. 2 Claims. (Cl. 192—37.)



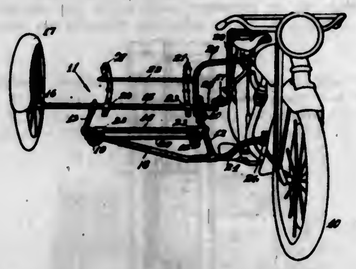
1. In a clutch mechanism, the combination of a driving member having a cylindrical end, a driven shaft, a flat coiled spring capable of expanding radially connected at one end to said driven shaft and surrounding the cylindrical end of said driving shaft and normally contracted radially to grip the driving shaft to cause the driven member to rotate with the driving member, a knurled collar surrounding the driving shaft connected to the free end of the spring and adapted to be operated to cause twisting and radial expansion of the spring to cause the spring to release the driving shaft, and means including a pin on said driven member and a slot and shoulder therefor for maintaining said spring contracted or expanded, as desired.

1,392,937. METAL-WORKING MACHINE. ORAN S. HAMMAGREN, Minneapolis, Minn. Filed Mar. 12, 1920. Serial No. 365,190. 7 Claims. (Cl. 51—31.)

1. A metal working machine comprising a support, a driving shaft mounted on said support, a boring bar, means operated from said driving shaft for longitudinally reciprocating said boring bar, means for rotating said boring bar from said driving shaft at a reduced rate of speed, a rod rotatably and non-slidably mounted in said boring bar, disconnectible means for rotating said rod in said boring bar from said driving shaft at an increased rate of speed, and means on the forward end of said boring bar whereby a tool may be attached for operation thereby or a grinding wheel may be supported for rotation by said rod.

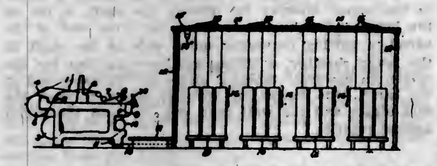


1,392,938. SIDE-CAR ATTACHMENT FOR MOTORCYCLES. CHARLES E. HASTINGS, Chicago, Ill., assignor to National Dairy Machine Company, Goshen, Ind., a Corporation of Indiana. Filed Oct. 30, 1919. Serial No. 334,434. 35 Claims. (Cl. 208—45.)



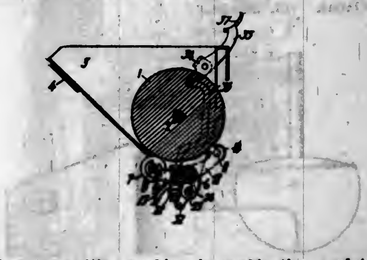
1. The combination with a motor cycle frame, of a side car comprising a frame having a resilient connection with said motor cycle frame, said connection comprising an elliptic spring member having a positive clamping engagement with said side car frame member and pivotally connected with said motor cycle frame member.

1,392,939. CHENILLE-STRIP DISTRIBUTION. EDGAR F. HATHAWAY, Dorchester, Mass., assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y., a Corporation of New York. Filed Mar. 8, 1921. Serial No. 450,613. 17 Claims. (Cl. 139—40.)



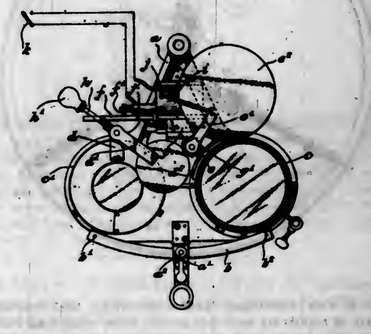
1. Chenille or like strip distributing mechanism comprising in combination, mechanism extending the full width of the chenille forming mechanism to deliver in parallel relation from the said chenille forming mechanism a set of laterally uncontracted strips and constituting substantially a sheet which is of the full width of the mechanism, a series of receiving receptacles in substantial alinement, and means to direct said strips separately into the respective receptacles, whereby each receptacle receives a single strip.

1,392,940. TYPEWRITING-MACHINE. WILLIAM F. HELMOND, Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 27, 1919. Serial No. 279,626. 9 Claims. (Cl. 197—138.)



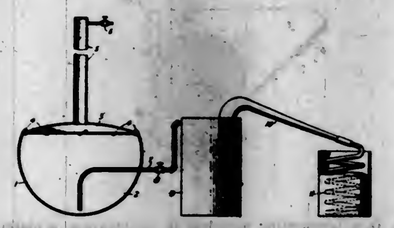
1. In a typewriting machine, in combination, a platen, front and rear feed-rolls to coöperate therewith, shafts for said rolls, a supporting bar, supporting arms for said shafts, said arms being associated in pairs, each pair including an arm for each of said shafts, the arms of each pair having hubs journaled end to end on said supporting bar and extending from said arms in the same direction along said bar, so that one of said hubs serves to maintain said arms at the desired distance apart, a lug on each arm extending therefrom in the same direction as the hub and lying between the planes of its ends, a fixed support paired with each of said lugs, and a spring between each lug and its support tending to move the former relatively to the latter, said springs thereby tending to cause said rolls to be pressed against said platen.

1,392,941. SHUTTER CONTROL FOR CINEMATOGRAPHIC TARGETS. HENRY HIRSCH, New York, N. Y., assignor to Lydia B. Koch, New York, N. Y. Filed Dec. 26, 1919. Serial No. 347,288. 5 Claims. (Cl. 88—17.)



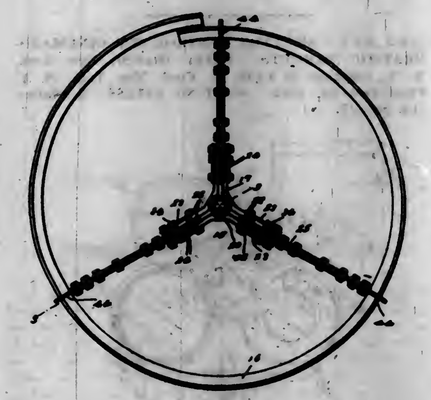
1. A shutter control for cinematographic targets embodying therein the combination with a movable frame carrying a plurality of condensers, of shutters pivotally mounted adjacent and adapted to be moved in relation to the light openings of said condensers respectively, operative connections between said shutters whereby they may be simultaneously actuated, means normally tending to move and hold said shutters from before the light openings of said condensers, and a magnet operatively connected with and adapted to positively actuate said connections, the circuit to said magnet being normally open, whereby upon the closing of said circuit, both shutters will have simultaneous movement imparted thereto, to obscure the light openings of both of said condensers.

1,392,942. PROCESS FOR THE MANUFACTURE OF DIPHENYLAMIN. ARTHUR HANS HOULEHAN, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a Corporation of Delaware. Filed May 25, 1917. Serial No. 170,868. 10 Claims. (Cl. 23—24.)



1. The process of condensing aniliu to diphenylamin which comprises heating aniliu to a temperature of from about 275 to 300° C. in the presence of water with a small proportion of a halogen-containing substance as the active catalyst, which substance provides a source of a free halogen or the hydrid thereof in the process.

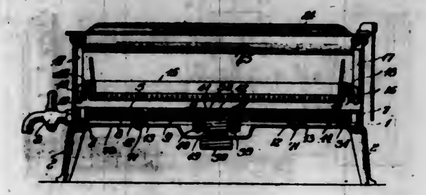
1,392,943. RIM-TOOL. SAMUEL J. HURWITS, Youngstown, Ohio. Filed Oct. 12, 1920. Serial No. 416,358. 5 Claims. (Cl. 157—1.)



1. A rim expanding and contracting tool embodying a pair of relatively movable heads, arms extending radially from said heads and rim engaging elements carried by the outer ends of the arms and means for preventing buckling of the tool and means for connecting the inner ends of the radial arms with the relative movable heads, whereby said arms may be folded in substantially parallel position.

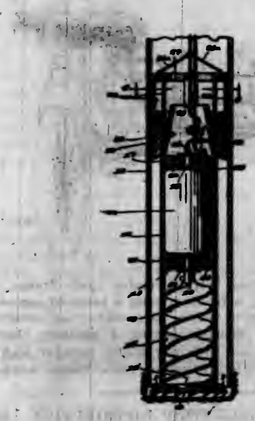
1,392,944. STERILIZER. ALBERT H. JESSUP, Erie, Pa., assignor to American Steriliser Company, Erie, Pa., a Corporation of Pennsylvania. Original application filed July 5, 1917, Serial No. 178,535. Divided and this application filed Feb. 3, 1920. Serial No. 355,910. 7 Claims. (Cl. 219—68.)

1. An electric heater element comprising a support having tongues at its opposite edges, and an electric resistance strip looped under and across the tongues and traversing but one face of the support in its passage from a tongue at one edge of the support to a tongue at



its opposite edge, said support having face rabbets or recesses making the tongues thinner than the main body of the support and accommodating the tongue crossing portions of the resistance strip loops.

1,392,945. WELL-BORING MACHINE. JAMES M. KELLAR, Sistersville, W. Va. Filed Jan. 25, 1921. Serial No. 439,794. 2 Claims. (Cl. 255—4.)

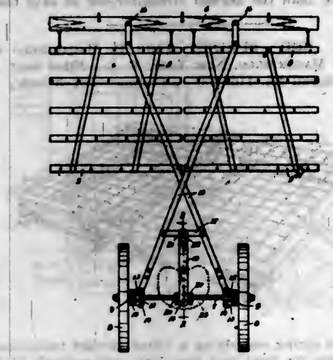


1. A well boring machine including a barrel having an upper chamber and a lower chamber, a vertical shaft rotatable within the center of the barrel, a motor in the upper chamber for driving the shaft, a bit on the lower end of the shaft below the lower end of the barrel, a cutting conveying spiral web on the shaft in the lower chamber, a lifting and lowering line for the barrel, an upwardly tapering nipple on the upper end of the barrel, and means for wedging action between the said nipple and the wall of a well, to hold the barrel against rotation.

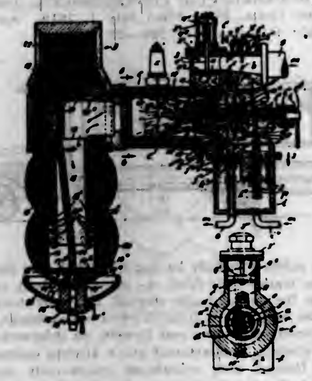
1,392,946. HARROW-CART. JOSEPH J. KOVAR, Owatonna, Minn. Filed May 19, 1920. Serial No. 382,520. 5 Claims. (Cl. 55—91.)

1. A harrow cart comprising an axle having a pair of wheels loosely journaled thereon, boxes on the axle with which the inner ends of the hubs interlock to hold the wheels on the axle, and a pair of crossed drag bars pivotally secured to the boxes and adapted to be attached to a draft bar.

4. A harrow cart comprising an axle having a pair of wheels loosely journaled thereon, a pair of crossed drag bars pivotally secured in respect to the axle and adapted to be attached to a draft bar, a cross link pivotally connecting the drag bars, and a seat-supporting bar having one of its ends supported on the axle and its other end pivotally connected to the cross link.



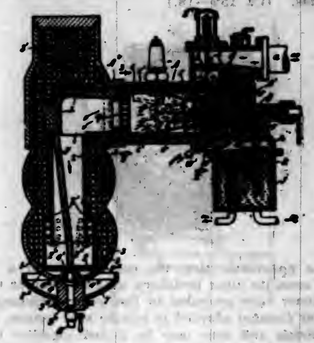
1,392,947. POWER PLANT. OTTO KRAUS, New York, N. Y., assignor to Kraus Engine Company, New York, N. Y., a Corporation of New York. Filed Mar. 19, 1918. Serial No. 223,264. 10 Claims. (Cl. 60—45.)



1. An oil-burning furnace including a combustion chamber; a flue that extends downwardly therefrom; and a drum into which the flue projects and which is formed with holes in its upper end above the mouth of the flue, said holes permitting the escape of the products of combustion from the drum.

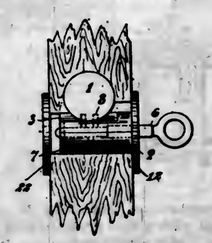
1,392,948. FLAME-MAINTAINING DEVICE. OTTO KRAUS, New York, N. Y., assignor to Kraus Engine Company, New York, N. Y., a Corporation of New York. Original application filed Mar. 19, 1918, Serial No. 223,264. Divided and this application filed Mar. 31, 1919. Serial No. 286,372. 1 Claim. (Cl. 158—28.)

An oil-burning furnace provided with a re-ignition device that fits closely to the walls thereof and that is in the form of a grating having a central opening for the passage of the heated products of combustion and provided with a series of spaced, substantially ring-shaped



elements arranged at varying distances from the central opening, whereby all portions of the stream of combustion products are exposed to the action of said elements.

1,392,949. DOUBLE TUBULAR LOCK. SOFUS ANDREW EMIL LARSEN, Copenhagen, Denmark. Original application filed June 3, 1920, Serial No. 386,280. Divided and this application filed Jan. 13, 1921. Serial No. 437,028. 2 Claims. (Cl. 70—16.)



1. A double cylinder lock, comprising two cylinders disposed with their axes crossing each other at right angles and offset relatively to each other, one of said cylinders having a pair of outwardly-flared lugs on the upper portion of its periphery, and the other cylinder having formed in the lower portion of its periphery a dove-tail notch into which said lugs project and against the opposite side edges of which they bear.

1,392,950. THUMB-TACK. MELVIN G. LAWRENCE, Revere, Mass. Filed Apr. 7, 1920. Serial No. 371,984. 3 Claims. (Cl. 85—16.)



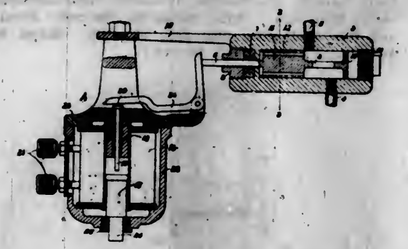
1. A thumb-tack for securing a paper to a board, said thumb-tack having a spike or stem, a head adapted to be grasped between the thumb and finger and a spring element extending from the bottom of the head below the portion which is grasped by the thumb and finger and adapted to engage the paper when the thumb-tack is inserted into a board, thereby yieldingly holding said paper against the board.

1,392,951. PNEUMATIC TIRE. EDWARD W. LEE, Los Angeles, Calif. Filed Nov. 30, 1920. Serial No. 427,265. 4 Claims. (Cl. 152—18.)



3. In a pneumatic tire, the combination of a casing provided upon its inner periphery with an annular tongue, and an inner tube provided in the outer periphery with an annular channel adapted to receive said tongue, whereby the casing and tube may be locked together in predetermined relation.

1,392,952. MAGNETICALLY-OPERATED VALVE. MAXIMILIAN W. LINK, Chicago, Ill., assignor to Crane Company, Chicago, Ill., a Corporation of Illinois. Filed June 1, 1918. Serial No. 237,716. 7 Claims. (Cl. 137—139.)



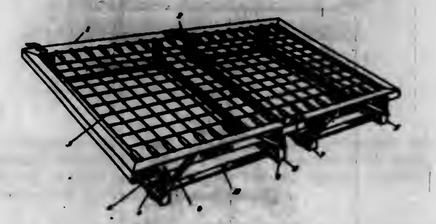
1. A valve mechanism comprising in combination a cylinder provided with a fluid pressure inlet port and with a fluid pressure outlet port intermediate its ends, a piston in said cylinder normally pressure held in a position uncovering both of said ports, a piston rod, a lever having one arm in a position to move said rod in a direction opposed to that of the pressure, and electro-magnetic means acting on the other arm of the lever to move the piston rod and piston to cover the outlet port.

1,392,953. VEHICLE-TIRE. WILLIAM D. MCNAULL, Toledo, Ohio, assignor to Mrs. Macie K. McNaull, Toledo, Ohio. Filed Oct. 29, 1917. Serial No. 198,922. 3 Claims. (Cl. 152—13.)



3. In a vehicle-tire, a tread-member arched transversely as—approximately—a semi-circle, said member having at its margins beads formed of inextensible wires invested in elastic material, combined with retaining devices for said beads, said retaining devices being of greater circumference than the normal circumference of said beads.

1,392,954. BED-SPRING. JOHN B. MAGARIELLO and JOSEPH MAGARIELLO, New York, N. Y. Filed Sept. 16, 1920. Serial No. 410,618. 2 Claims. (Cl. 5—65.)



1. A bed spring embodying a frame divided transversely intermediate its head and foot into two sections hinged to one another along the line of division, a U-shaped support beneath each end of the head section, a U-shaped support beneath each end of the foot section, which supports are adapted to coöperate with a bedstead for the purpose of supporting the sections individually therein, means for bracing the U-shaped supporting members against longitudinal and lateral strains and tie members connecting the supports to the respective sections.

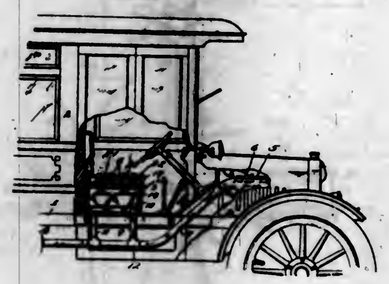
1,392,955. AUTOMOBILE-BODY WITH TRAVELING AND HOUSEKEEPING CONVENIENCES. ROBERT L. MARTIN, Ocala, Fla. Filed July 1, 1919. Serial No. 307,992. 9 Claims. (Cl. 296—23.)



1. An automobile body having front and rear partitions extending transversely from one side of the body partially across to the opposite side thereof, said partitions subdividing the body into a front driver's compartment having a transversely extending seat therein, an intermediate living and sleeping compartment and a kitchen compartment in rear thereof each containing transversely extending seats, a hall extending along one side of the body past the ends of said partitions and seats to provide intercommunication between the different compartments, lavatory and bath compartments in rear of the kitchen compartment and extending partially across the body from the respective opposite sides thereof, forming a middle longitudinal hallway between them which communicates with the kitchen compartment, and a convertible seating and sleeping compartment, extending transversely across the body in rear of the lavatory and bath compartments and communicating with the middle hallway between the latter compartments.

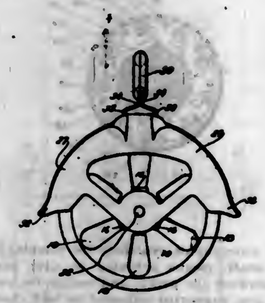
1,392,956. COOKING-STOVE. ROBERT L. MARTIN, Ocala, Fla. Filed July 1, 1919. Serial No. 307,993. 1 Claim. (Cl. 126—20.)

An exhaust gas heated cooking stove for automobiles comprising a closed chamber to entirely inclose cooking vessels, said chamber having a movable lid to cover said chamber and to afford access to the interior thereof, a flat exhaust gas heated coil located in the bottom of said chamber, a heat distributing plate resting on the top of



said coil and serving as a support for the cooking vessels, and means to bear yieldingly on the cooking vessels in said chamber to hold said vessels down on said plate and to hold said plate down on the coil.

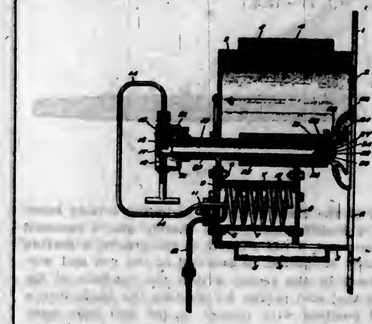
1,392,957. PULLEY AND SHEATH THEREFOR. FRANK E. MATTHEWS, Bridgeport, Conn., assignor to Daniel J. Williams and Henry E. Dineson, doing business under the name of The Connecticut Tool and Engineering Company, Bridgeport, Conn. Filed Apr. 28, 1921. Serial No. 465,156. 7 Claims. (Cl. 64—17.)



1. A pulley consisting of a single disk of metal shaped adjacent its margin to provide a pulley groove and constructed at its center to provide a bearing, said bearing comprising an opening in the metal of said pulley and openings in arms struck from said metal and arranged in parallel relation and in alinement with said opening in said metal.

1,392,958. FUEL-OIL BURNER. WILLIAM J. MEAD, Orange, Tex. Filed July 30, 1920. Serial No. 400,117. 5 Claims. (Cl. 158—75.)

1. In an oil burner the combination of an inner tube; an outer tube spaced from said inner tube and adapted to supply air to the exterior of the flame cone; a plug in said inner tube provided with a plurality of helically disposed grooves and a plurality of mixing chambers into which said grooves deliver adapted to atomize said oil and impart thereto a whirling motion; means to admit said finely divided and whirling oil to the fire box from the burner tip; and a flame spreading means surrounding said



tip adapted to restrict the amount of outside air reaching said atomized oil near said tip, substantially as described.

1,392,959. RANGE AND BEARING INDICATOR. ELMER MEITNER, Brooklyn, N. Y., assignor, by mesne assignments, to Ford Instrument Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 5, 1916. Serial No. 118,405. 16 Claims. (Cl. 235—61.)

1. In an ordnance calculator, a traveling surface, recording means adapted to move at an angle thereto, means for imparting a uniform movement to one of said parts, means for moving the other of said parts in accordance with changes in a function of the target, a rate of change indicator adapted to be set with respect to the recorded line, a range indicator, means for combining a function of the range with the rate of change and means for combining a time correction with the rate of change, whereby the value of the first named function may be predicted.

4. In an ordnance calculator, a traveling surface, a recording carriage adapted to move at an angle thereto, means for moving one of said parts in accordance with changes in a function of the target, and automatic means for resetting said carriage.

8. In an ordnance calculator, a rate of change indicator showing the change in a function of the target, automatic means for indicating the time of flight of a shell in accordance with the range, a settable time device, and means for combining the said rate of change with said two times.

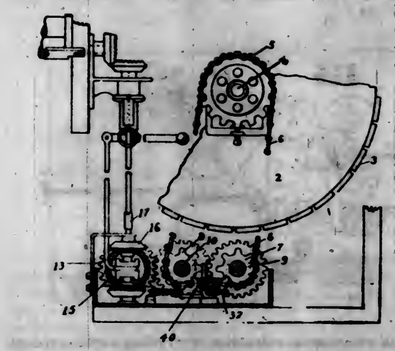
9. In an ordnance calculator, a traveling surface, a recording carriage adapted to move at an angle thereto, means for moving one of said parts in accordance with changes in a function of the target, a limit switch adapted to be actuated by said carriage, and means brought into action by said switch for reversing the direction of travel of said carriage.

1,392,960. REAMING-TOOL. GEORGE MERRILL, Newport News, Va., assignor of one-half to A. T. Merritt, Newport News, Va. Filed Jan. 18, 1921. Serial No. 438,131. 4 Claims. (Cl. 77—73.5.)



1. A tool of the class described including a body member having a longitudinal groove therein and a recessed portion at one end, a rod slidable in the groove, a cutting blade pivotally connected to one end of the rod and normally disposed in the recess within the confines of the body of the tool and means for guiding the blade into a transversed position with respect to the tool body upon reciprocation of the rod.

1,392,961. AUTOMATIC REVERSING DEVICE FOR WASHING-MACHINES. PETER C. MOSSNER, Saginaw, Mich. Filed Apr. 2, 1920. Serial No. 371,025. 1 Claim. (Cl. 74—50.)



In a washing machine, the combination of a revoluble drum having a shaft, a sprocket on the shaft of said drum, a motor, and drum-actuating means comprising a pair of parallel shafts, a sprocket wheel loose on each shaft, a clutch adapted to releasably secure each sprocket wheel to its shaft, intermeshing gears on said shafts, means for driving one of said gears from said motor, a drive chain engaging said drum shaft sprocket and said loose sprockets, a clutch-shifting device adapted to simultaneously actuate said clutches to engage one and disengage the other of said loose sprockets, and engaging means on said chain adapted to actuate said clutch-shifting device at each complete revolution of said chain, whereby to impart to said drum a plurality of revolutions, first in one direction and then in the opposite direction, for the purpose set forth.

1,392,962. SUPPORT FOR ELEVATOR-CARS. JOHN M. MURPHY, Shamokin, Pa. Filed Feb. 21, 1921. Serial No. 446,693. 4 Claims. (Cl. 187—73.)

4. In a support for elevator cars, a hanger having angularly disposed extensions terminating in downwardly extending flanges whereby the hanger is suspended, a bar guided by the hanger for sliding movement therewith, a



foot pivotally connected to the lower end of the hanger, and a brace pivotally connected to the bar and to the foot.

1,392,963. SPEED-REGULATING DEVICE. GEORGE J. NEFF, Dayton, Ohio, assignor to The Egry Register Company, Dayton, Ohio, a Corporation of Ohio. Filed July 28, 1920. Serial No. 399,522. 17 Claims. (Cl. 273.)

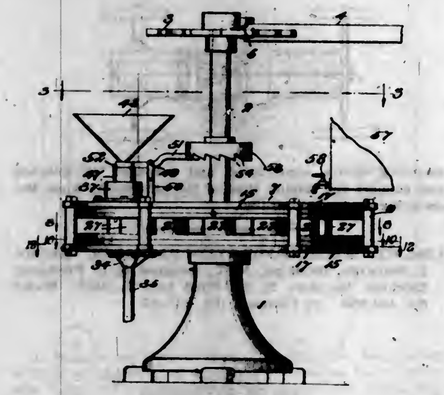


2. In an autographic register, the combination with a horizontal shaft, means actuated by said shaft to continuously advance the paper, and means for rotating said shaft, of a stop supported adjacent to said shaft, a detent movably connected with said shaft, and means for moving said detent into line with said stop and for releasing the same at a point in advance of said stop to permit it to move into an inoperative position, thereby permitting the continuous rotation of said shaft at normal speed and checking the movement thereof if rotated at an excessive speed.

1,392,964. CAN-SOLDERING MACHINE. ALEX W. NIELSEN, Chicago, Ill. Filed July 3, 1919. Serial No. 308,603. 12 Claims. (Cl. 113—32.)

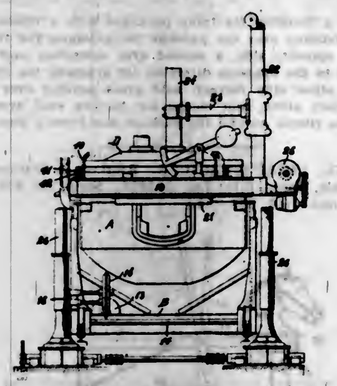
1. The combination, in a machine of the class described, of upper and lower stationary plates, the upper plate being provided with a feed-opening and the lower plate with a discharge-opening, a shaft passing through the plates and provided with means for rotation, a rotatable carrier mounted upon and adapted to move with the shaft and provided with means for supporting cans and conducting them from the feed-opening to the discharge-opening of the machine, a solder-supply located above the upper plate between said feed and discharge-

openings, a soldering-means connected with said supply and extending through said upper plate in advance of



the discharge-opening, and means for discharging solder from the soldering-means as cans are successively brought thereunder.

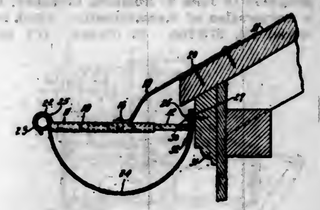
1,392,965. ELECTRIC STEEL-FURNACE. HERMAN F. PRIWER, Springfield, Ohio, assignor of one-half to John E. Galvin. Filed June 15, 1920. Serial No. 389,074. 11 Claims. (Cl. 204—64.)



1. In an electric furnace, the combination of a hearth; and a roof, electrodes and power operating mechanism therefor all arranged so as to be movable together; and means for raising the roof.

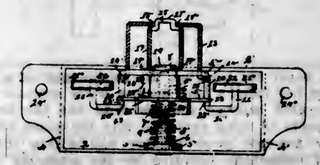
1,392,966. GUTTER-HANGER. MAX RACHLIN, New York, N. Y., assignor to Patented Metalware Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 29, 1920. Serial No. 377,698. 3 Claims. (Cl. 108—29.)

1. A gutter hanger comprising a bar adapted to be placed transversely across the upper open end of a gutter and terminally secured to the upper edge portions thereof said bar being formed of an inner and an outer section slidably secured together, the outer section having



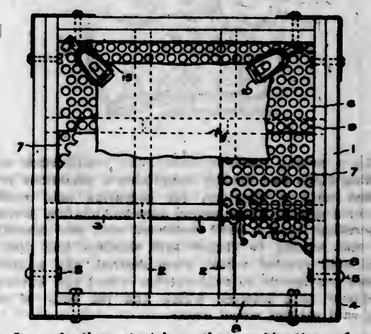
inwardly projecting flanges for bodily supporting the inner section and means for securing the sections in desired adjusted position.

1,392,967. LOCK-LATCH FOR HANDBAGS. BRODIE J. RICHARDSON and CLAIRE S. BARBER, Waterbury, Conn. Filed Mar. 15, 1920. Serial No. 366,001. 3 Claims. (Cl. 70—2.)



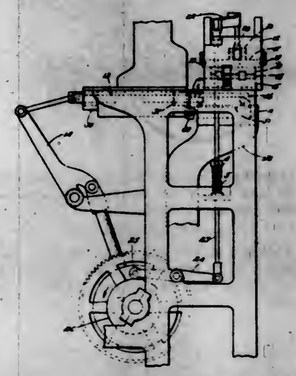
1. A lock-latch of the class herein described comprising a housing having an upstanding, shouldered centering-spindle fixed therein; depressible latch-mechanism centered by and operating on said centering-spindle, said latch mechanism including an operating-bolt, an evener, and a spacing medium, the latter positioned between said operating-bolt and said evener, and fitted with a boss extending downwardly through and beyond the evener, and adapted to engage the shoulder afforded by said centering-spindle for limiting the extent of depression of said latch-mechanism.

1,392,968. STRETCHER AND DRIER FOR HIDES AND LEATHER. FRANCIS J. ROBINSON, Aurora, Ontario, Canada. Filed Dec. 8, 1920. Serial No. 429,094. 2 Claims. (Cl. 149—21.)



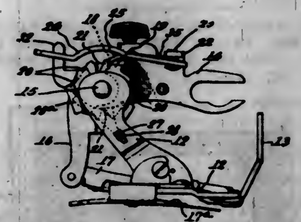
1. In a leather stretcher, the combination of a rectangular frame provided with longitudinal and transverse braces, the outer edge of the frame being of greater thickness than its inner edge and the braces being of substantially the same thickness as the inner edge of the frame; perforated sheet metal at each side of the frame; and filling pieces securing the perforated sheet metal to the frame.

1,392,969. PAPER-BOX MACHINE. JOHN T. ROBINSON, GEORGE B. GOODING, and DOMINICO J. RUSSO, Boston, Mass., assignors to John T. Robinson Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 28, 1919. Serial No. 279,768. 12 Claims. (Cl. 93—55.)



1. In a paper box machine, the combination of a movable hollow box form, a fixed head, a freely movable press member located between the box form and the head, a feeder capable of being projected into the space beneath the freely movable press member and within the box form, and mechanism operated by the actuating mechanism for the box form to secure the movable press member immovably to the fixed head when the box form has reached a predetermined point in its movement toward the fixed head.

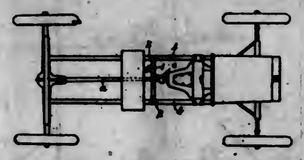
1,392,970. SEWING-MACHINE RUFFLER. HERBERT H. RUSSELL, New Haven, Conn., assignor to The Geist Manufacturing Company, a Corporation of Connecticut. Filed Jan. 6, 1921. Serial No. 435,803. 2 Claims. (Cl. 112—185.)



2. In a sewing machine ruffler, the combination with a ruffling blade and means, comprising a pendulous lever provided with a shoulder, for operating said ruffling blade, of a ratchet-wheel having deep and shallow notches, an operating lever, a pawl connected with said operating lever and serving to engage said shoulder and also to engage said ratchet wheel when desired, and a spring mounted contiguous to said ratchet wheel and having a turned-over part between which and the body of said spring said ratchet wheel works.

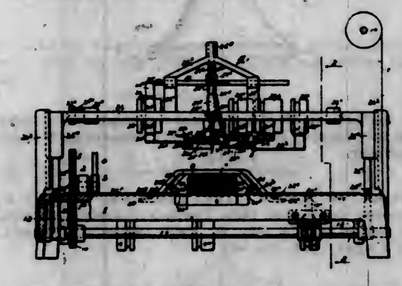
1,392,971. TORSION-TUBE HOIST AND HOLDER. PETER W. SAMUELSON and WILLIAM CHRISTOFFERSON, Pepin, Wis. Filed Dec. 27, 1920. Serial No. 433,218. 4 Claims. (Cl. 254—100.)

1. A device of the class described having in combination a member adapted to extend between and be supported upon the side frame members of an automobile, an elevating device carried by said member at the central portion thereof, and means at the lower end of said



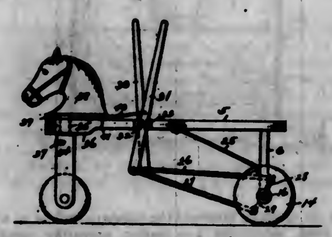
elevating device constructed and arranged to embrace and support the torsion tube of the automobile when the elevating device is operated.

1,392,972. MACHINE FOR TYING PACKAGES. HENRIK J. SCHMIDT, Brooklyn, N. Y., assignor to C. Frederick Raichlen, Bayonne, N. J. Filed Aug. 7, 1920. Serial No. 401,986. 26 Claims. (Cl. 93—93.)



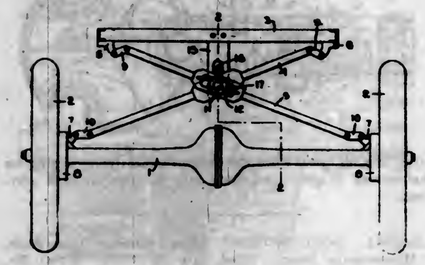
6. In a machine for tying packages with a ribbon, an arm extending over the package for grasping the ribbon on the opposite side, a second arm extending over the package in the opposite direction for grasping the ribbon on the other side thereof, said arms passing over and under each other, and means for moving said arms to draw the ribbon around the package and form a knot.

1,392,973. CHILD'S VEHICLE. RICHARD J. SCHNEIDER, Ogallala, Nebr. Filed Jan. 6, 1921. Serial No. 435,889. 3 Claims. (Cl. 208—33.)



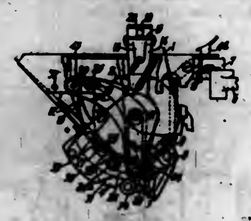
1. A device of the character described comprising a flat board like body, a bolster at the rear end thereof, a crank journaled in said bolster, wheels upon said crank, operating handles pivoted to the opposite sides of the body, connecting rods extending from the lower ends of said operating rods to said crank, a rotative head post, a front wheel carried thereby, a foot piece carried by said head post, a horse's head pivoted at its forward portion to the body, and a rod, one end of which is engaged with one of the operating handles and the other end of which engages said head to impart rocking motion thereto.

1,392,974. VEHICLE-SPRING. HERBERT E. SMITH, Manchester, N. H. Filed Apr. 4, 1921. Serial No. 458,251. 2 Claims. (Cl. 267—20.)



1. In a spring suspension for vehicles, the combination with a vehicle body, of an axle, two crossing levers pivotally connected together, the upper end of each lever being pivoted to the vehicle body and the lower end of said levers being pivotally connected to the axle, one of the levers having a slot, a pin rigid with the other lever and extending through said slot, and a spring device acting on one lever and said pin and tending to turn the levers relative to each other in a direction to raise the upper ends thereof.

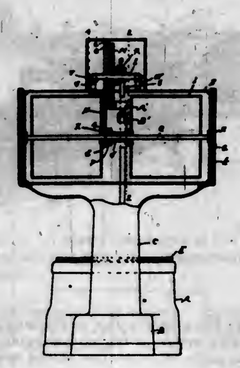
1,392,975. TYPEWRITING-MACHINE. BURNHAM C. STICKNEY, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 4, 1918. Serial No. 220,124. 36 Claims. (Cl. 197—127.)



1. In a typewriter, in combination, a revoluble platen, mechanism normally in effective relation to coöperate therewith as means to feed work-sheets thereabout, a normally ineffective work-sheet-holder, and a common operating device for said holder and feeding means, comprising means to render said holder effective to clamp said sheets against said platen, means to render said feeding means ineffective, and means to rotate said holder and platen with said sheets clamped firmly therebetween.

1,392,976. COMPUTING-SCALE. WALTER F. STIMPSON, Detroit, Mich. Filed Aug. 28, 1915. Serial No. 47,741. 20 Claims. (Cl. 265—57.)

1. In a scale, the combination of an indicator including a pivoted member, a second pivoted member, the axes of said members being parallel and extending in the same direction, and flexible connections between said pivoted members for effecting a positive actuation of the pivoted



indicating member by the movement of the second pivoted member in either direction.

1,392,977. COMBINED CARD GAME AND EDUCATIONAL APPARATUS. GERTRUDE S. SWAN, Detroit, Mich. Filed Aug. 12, 1920. Serial No. 402,943. 3 Claims. (Cl. 46—25.)

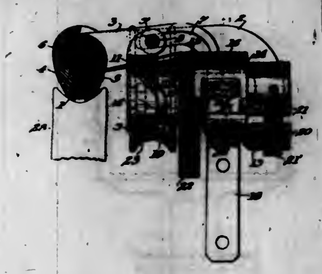


1. An educational game, comprising a plurality of cards each bearing the mark of one of several diverse series, and each card being distinguished by a clef marking and the color thereof as belonging to one or another of the several series, and having associated with said markings a numerical symbol and a musical symbol which correspond in their pairings with the relative order numerically and on the musical scale denoted by that series with the numerical and musical symbols borne by the next adjacent cards of that series.

1,392,978. DIFFERENTIAL CLIP FOR AERIAL ROPEWAYS. YUSUKE TAMAMURA, Tokyo-Fu, Japan. Filed Feb. 14, 1921. Serial No. 444,920. 12 Claims. (Cl. 104—208.)

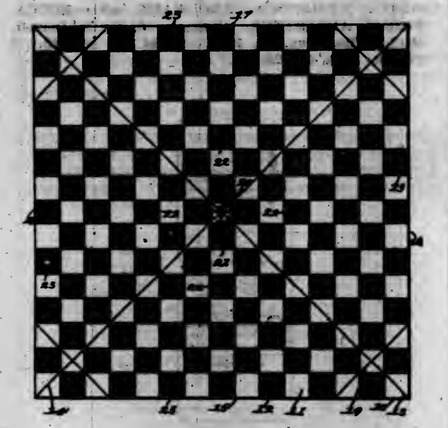
1. In apparatus of the class described, the combination of a hauling rope, a carriage, rope-gripping means con-

nected with the carriage, means for translating the force of gravity acting through the carriage upon the gripping



means to make the grip effective and means operative to vary the gripping action of the said gripping means as a function of the angle of inclination of the hauling rope.

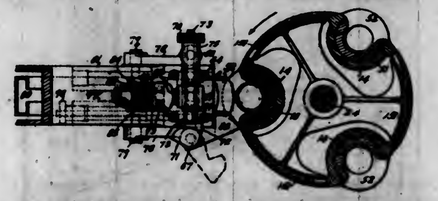
1,392,979. GAME. FRED TAUPER, Meadow Lands, Pa. Filed June 16, 1920. Serial No. 389,520. 2 Claims. (Cl. 46—64.)



2. A game board of the character described comprising a rectangular plate, 225 alternating black and white squares on said plate, diagonal lines dividing said plate into four triangular fields, other lines cutting off the rectangular corner of each field to form an interment zone, each of said fields comprising a captain square marked by crossed arrows, and a dark black square adjoining the neutral or king square of the board, substantially as described.

1,392,980. BOTTLE-CAPPING APPARATUS. SAMUEL W. TAYLOR, Baltimore, Md., assignor to The Crown Cork and Seal Company of Baltimore City, a Corporation of Maryland. Filed Nov. 14, 1917. Serial No. 202,015. 20 Claims. (Cl. 226—88.1.)

1. In bottle capping apparatus, a crown feeding chute, capping mechanism having an orbital movement with respect to said chute, a throat carrier having a crown platform included in the capping mechanism and formed with an opening registering with the crown passage of the chute, whereby crowns flow from the chute into said plat-



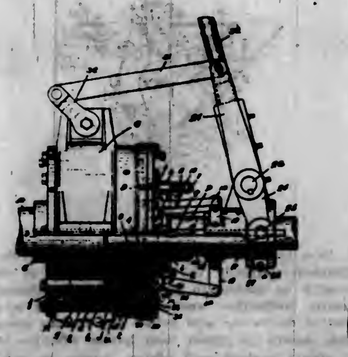
form, and means beyond the chute for positively acting on the crowns to move the same into position in said platform.

1,392,981. DOLL FIGURE. ETHEL GORDON THOMPSON, Minneapolis, Minn. Filed July 24, 1920. Serial No. 398,747. 2 Claims. (Cl. 46—40.)



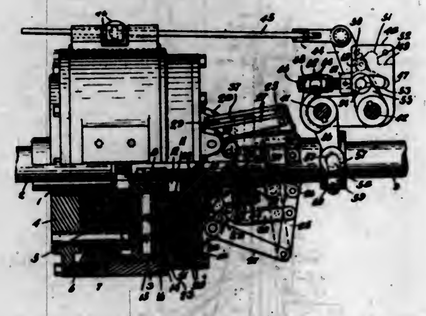
2. A series of doll figures, integrally connected limb members extending from said figures, and integrally formed coöperating elements on said limb members to detachably secure the figures in succession.

1,392,982. REVERSING-GEARING. HENRY A. TUTTLE, Taunton, Mass. Filed June 18, 1917. Serial No. 175,268. 19 Claims. (Cl. 74—34.)



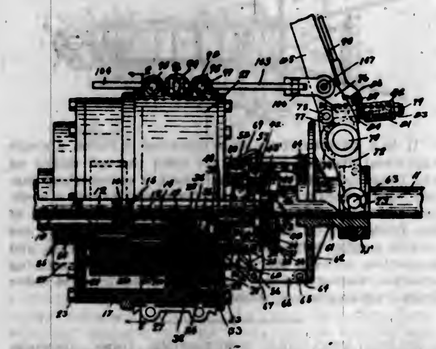
1. In a reverse gearing, a driving-shaft, a driven-shaft, gearing connecting said shafts including an internal gear and a brake-mechanism to secure reverse drive, clutch-mechanism to secure forward drive including clutch-plates and a clutch operating-member, said plates and operating-member arranged for axial movement on the hub of the internal gear, actuating means for said operating-member, link and lever mechanism connecting said clutch-operating member and actuating-means, means constraining said clutch operating-member and actuating-means for simultaneous rotation upon a reverse drive.

1,392,983. REVERSING-GEARING. HENRY A. TUTTLE, Taunton, Mass. Filed June 25, 1917. Serial No. 176,673. 77 Claims. (Cl. 74—34.)



1. In a reversing gearing, a driving-shaft, a driven-shaft, gearing adapted to connect said shafts for reverse drive, clutch-mechanism adapted to connect said shafts for forward drive, said clutch-mechanism adapted to be disengaged from the driven element in reverse drive position, whereby it will remain stationary.

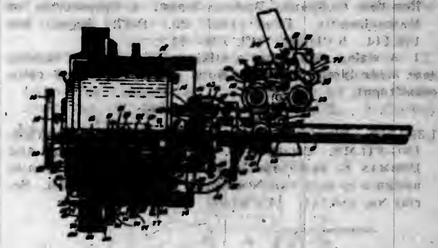
1,392,984. REVERSING-GEARING. HENRY A. TUTTLE, Upton, Mass. Filed Jan. 31, 1919. Serial No. 274,247. 47 Claims. (Cl. 74—34.)



1. In a reversing gearing, a driving shaft, a driven shaft, gearing adapted to connect said shafts for reverse drive, clutch mechanism comprising two clutching elements adapted to engage each other for direct drive and to disengage each other on reverse drive, one of said elements being connected with one of said shafts and means to connect the other element with the other shaft for forward drive and to clutch the elements and operating means for the aforesaid means.

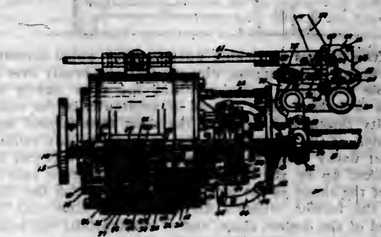
1,392,985. REVERSING-GEARING. HENRY A. TUTTLE, Upton, Mass. Filed Nov. 19, 1919. Serial No. 339,108. 10 Claims. (Cl. 74—34.)

1. A reversing gearing having a driving shaft, a driven shaft, gearing connecting said shafts for reverse drive, and brake mechanism to secure reverse drive comprising a set of clutch plates arranged normally to be free from driving connection with said gearing, a stationary member, a second set of clutch plates carried thereby, and



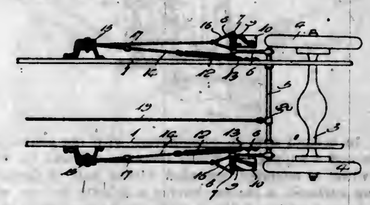
means positively to connect said first set of clutch plates with said gearing and effect the engagement of said sets of clutch plates.

1,392,986. REVERSING-GEARING. HENRY A. TUTTLE, Upton, Mass. Filed Dec. 13, 1919. Serial No. 344,532. 18 Claims. (Cl. 74—34.)



1. In a reversing gearing, a driving shaft, a driven shaft, gearing connecting said shafts, clutch mechanism to secure forward drive including a casing, an axially movable member, a clutch operating member freely mounted on one of said shafts, linkages connecting said operating member with said axially movable member, said clutch member and casing having coöperating components by which they are constrained for conjoint rotation admitting of their relative axial movement.

1,392,987. AUTOMOBILE-BRAKE. ALBERT A. UNRUH, Salem, Oreg. Filed June 14, 1920. Serial No. 388,958. 4 Claims. (Cl. 188—4.)

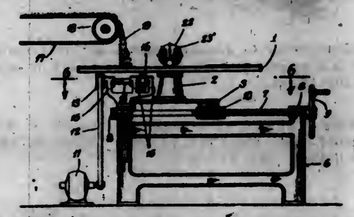


1. The combination with a chassis having side beams, a rocker shaft extending transversely of the chassis and rotatably connected with the side beams, arms extending forwardly from the rocker shaft and having outstanding pins, mats pivotally mounted upon the pins and having protecting chains extending longitudinally of their underfaces, springs connected with the side beams, guides connected with the side beams, lines connected with the springs and extending about the guides and connected with the pins, and means for rotating the rocker shaft to swing the arms downwardly against the action of the springs and bring the mats into engagement with the ground for passing beneath the wheels.

1,392,988. SIZING AND METHOD OF MAKING THE SAME. WILLIAM P. UPHAM, Keene, N. H., assignor to Ros-Aux Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 29, 1917. Serial No. 145,144. 6 Claims. (Cl. 134—21.)

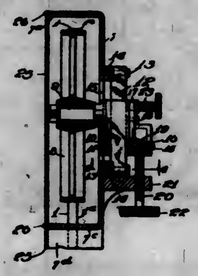
1. A sizing containing a mixture of a starchy constituent hydrolyzed under pressure and a saponified rosin constituent.

1,392,989. PROCESS FOR MAKING FIBROUS FILTERING-FILMS. CHARLES H. VAN NOSTRAND, Orange, and HERMAN E. SCHULER, Jersey City, N. J.; said Schuler assignor to said Van Nostrand. Filed Feb. 8, 1918. Serial No. 216,111. 17 Claims. (Cl. 210—204.)



1. The process of making filtering films which consists in spreading loose, fibrous, filtering material evenly over a suitable supporting surface, rolling the same lightly in places to make a sheet thereof of substantially the same porosity throughout, bringing the sheet thus formed and a former, of the shape of the film to be made, into rolling contact under pressure to cause the filtering material to be picked up by the former and formed thereon into a film of the shape as the former, and withdrawing the film from the former, whereby fibrous filtering films may be formed of the desired shape and of substantially the same porosity throughout.

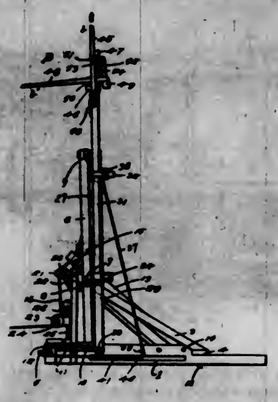
1,392,990. BAND-SAW. JAY W. VAUGHAN, Chicago, Ill. Filed May 26, 1919. Serial No. 299,718. 7 Claims. (Cl. 143—31.)



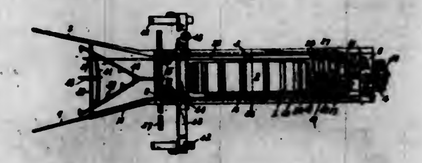
1. In a band saw, in combination with the endless saw blade and a supporting wheel therefor, a frame on which the wheel is mounted, provided with a pair of oppositely facing surfaces, a carrier having a spindle for the wheel and formed with a fulcrum arranged to bear upon one of said surfaces, and an adjustable member on the carrier disposed to bear against the other of said bearing surfaces at a distance from the fulcrum axis.

1,392,991. HAYSTACKER. ALBERT L. VENNER, Idaho Falls, Idaho. Filed May 6, 1919. Serial No. 295,145. 3 Claims. (Cl. 214—141.)

1. In a hay stacker, a main frame, including base and upright portions, a striking frame pivoted intermediate its ends to the upright portion of the main frame, a yieldable connection between the striking and main frames, a stacker frame pivoted to the main frame, a stacker slidably mounted on the stacker frame, connecting means between the stacker and the main frame for adjusting the stacker on the stacker frame and holding it in the required adjusted position, and means between the stacker frame and the main frame for effecting a pivotal movement of the stacker frame and a raising and a lowering of the stacker.



1,392,992. GARDEN-TRACTOR. LEROY JOSEPH WARNER, Toledo, Ohio. Filed May 7, 1919. Serial No. 295,445. 5 Claims. (Cl. 180—19.)



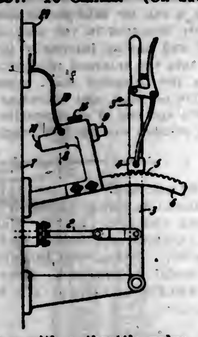
1. In a machine of the class described, a frame, a single bull-wheel disposed between the sides thereof, means on the frame for driving said bull-wheel, a caster-wheel supporting the forward end of said frame and having a steering arm projecting from its fork head longitudinally of the frame, control handles at the rear of said frame one of said handles being mounted for turning movements, and connection between the movable handle and said steering arm for communicating a turning movement to the latter from a turning of said handle.

1,392,993. TWO-PART DISPENSING DESK DEVICE. JAMES V. WASHBURNE, Fulton, N. Y. Filed July 19, 1917. Serial No. 181,586. 3 Claims. (Cl. 211—8.)



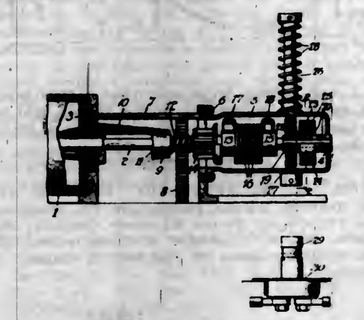
1. A two-part dispensing desk device comprising a base having an outlet and an inverted container mounted on the base and communicating with said outlet, the base having a shield rising therefrom and inclosing the sides of the container, the shield being provided with an upwardly extending slot opening through the upper edge of the shield and the container having a projection on the side thereof extending into the slot, substantially as and for the purpose specified.

1,392,994. THROTTLE-VALVE INDICATOR. LEWIS S. WATERS, Scranton, Pa., assignor of one-half to Robert C. Adams, Forest Hills, N. Y. Filed May 11, 1921. Serial No. 468,657. 10 Claims. (Cl. 116—125.)



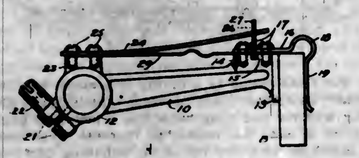
1. In combination with a throttle valve, an operating lever, and a resistance member in the path of said lever, said resistance member having a primary resistance and a secondary resistance, said resistances being adapted to be successively overcome during the closing movement of said lever and indicating successive lever positions.

1,392,995. ENGINE-STARTER. MAURICE P. WHITNEY, Elmira, N. Y., assignor to Eclipse Machine Company, Elmira, N. Y., a Corporation of New York. Filed Oct. 13, 1919. Serial No. 330,218. 9 Claims. (Cl. 74—54.)



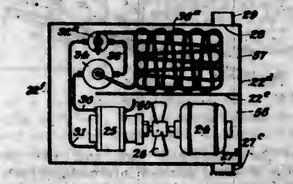
1. The combination of a motor driven rotatable shaft, a driving member mounted thereon for automatic longitudinal movement thereof and for rotary movement therewith, and manually operated mechanism for rotating such shaft, such mechanism including speed controlled means for disabling such mechanism upon excessive speed rotation of the shaft.

1,392,996. ELECTRIC-GENERATOR BRUSH-HOLDER. CHARLES E. WILLEY, Louisville, Ky. Filed May 27, 1921. Serial No. 473,219. 5 Claims. (Cl. 171—324.)



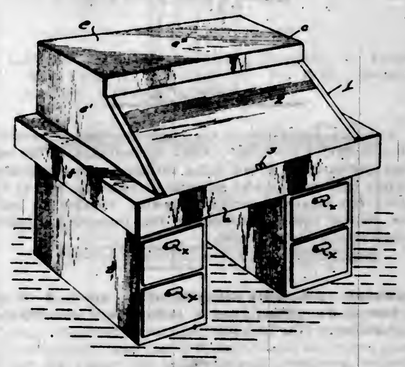
1. In a brush holder of the class described, an arm arranged for pivotal mounting on a stud, a brush clamp at the free end of said arm, a clamp ring engageable on the stud, a leaf spring having one end fixed to said ring, and means loosely connecting the other end of said spring and the arm adjacent its free end.

1,392,997. REFRIGERATING-MACHINE. EDWARD T. WILLIAMS, Brooklyn, N. Y., assignor to Simplex Refrigerating Corporation, a Corporation of New York. Filed Jan. 17, 1917. Serial No. 142,781. 9 Claims. (Cl. 62—116.)



1. In an apparatus of the class described in combination, a refrigerator, a housing thereon divided into a plurality of compartments, an expansion chamber in the refrigerator, a compressor in one of the aforesaid compartments connected with the expansion chamber to draw vaporised refrigerant therefrom and compress the same, a condenser in another of the compartments connected with the compressor to receive refrigerant therefrom and condense the same to liquid form, a collecting chamber connected with the condenser to receive liquefied refrigerant therefrom and connected to the expansion chamber to deliver refrigerant thereto, a motor having an extended armature shaft connected to the compressor to drive the same, and a fan located upon said shaft intermediate the motor and the compressor adapted to set up a flow of cooling air through the condenser and around the compressor and motor.

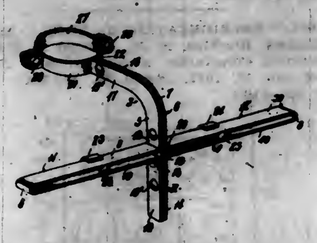
1,392,998. METAL DESK. FRANK P. WILLIAMS, Detroit, Mich., assignor to E. E. Gudka Mfg. Co., Detroit, Mich., a Corporation of Michigan. Filed May 10, 1920. Serial No. 380,206. 14 Claims. (Cl. 45—6.)



1. A metal desk, comprising a pair of supports, a bed supported thereon projecting at the sides, and an upper cabinet unit having offset channel portions adapted to engage the projecting bed in sliding relation so that the upper cabinet unit may be slid off from the bed to convert the desk from a roll top into a flat top desk, or vice versa.

12. In a sheet metal desk, the combination of sheet metal forming a drawer cabinet provided with a narrow slot in front and an elbow rest formed solely of a piece of sheet metal turned over at the sides and back to form guiding flanges and a stop flange.

1,392,999. TAG-HOLDER. HAROLD E. WILLIAMS, Carthage, Mo. Filed Jan. 4, 1921. Serial No. 434,872. 1 Claim. (Cl. 40—125.)



A holder for automobile tags and the like, comprising strips of metal doubled intermediate their ends to form horizontally disposed spaced cross members, said strips having downwardly bent portions of substantial length, and upwardly bent portions at opposite ends, a brace member adapted to fit between and extending parallel with said bent ends of opposing strips and riveted thereto, said brace member and said bent ends forming a stem for the holder and a rest for the license tag, and attaching means on said stem.

1,393,000. FORMOGRAPH. FRANK W. WOODRICH, Evanston, Ill. Filed Aug. 30, 1917. Serial No. 188,930. 12 Claims. (Cl. 33—20.)



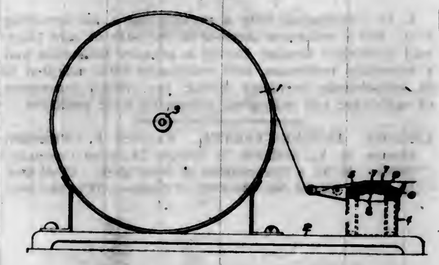
1. In an apparatus of the class described, a support, an arm having universal pivotal connection with the support and carrying at one end a surface-traversing member having universal pivotal connection therewith, and at the other end means, coacting therewith, adapted to mark the contour lines indicated by the traversing member, substantially as set forth.

1,393,001. OIL AND GREASE GUN. LOUIS E. WOOD, Farrell, Pa. Filed June 4, 1920. Serial No. 386,555. 3 Claims. (Cl. 74—40.)



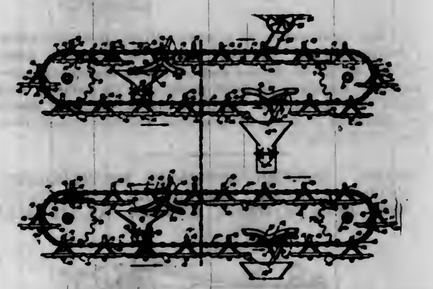
1. A structure of the character described comprising a threaded shaft, a block having an opening slidably receiving the shaft, the opening having its outer end portion enlarged and the block being cut from its outer face to provide a pocket having a countersunk portion forming a seat extending across the bottom of the pocket about said opening, a cap for said pocket carried by said block, plates slidably mounted in the seat upon opposite sides of the shaft and having internally threaded neck extensions fitting into the enlarged end portion of said opening for engaging the threaded shaft when moved inwardly to an operative position, and operating means for moving the plates into and out of an operative position including an actuating element extending through the cap.

1,393,002. STRIP-SERVING DEVICE. FREDERICK S. ANABLE, Brookline, Mass., assignor to National Binding Machine Company, Boston, Mass., a Corporation of Maine. Original application filed Jan. 6, 1916, Serial No. 70,554. Divided and this application filed Aug. 23, 1918, Serial No. 251,066. Renewed Mar. 2, 1921. Serial No. 449,238. 8 Claims. (Cl. 91—14.5.)



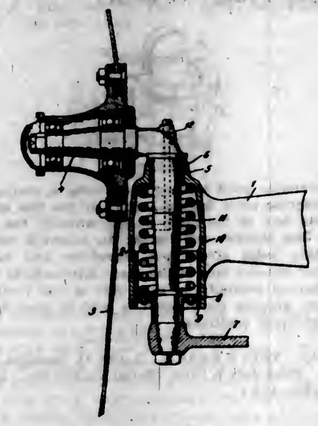
1. A strip serving device comprising a strip support, and a moistener in operative relation thereto, said moistener having spring means to effect separation of the strip and the moistener.

1,393,003. DRYING APPARATUS. ELWOOD B. AYRES and HERMANN BOGATY, Philadelphia, Pa., assignors to The Philadelphia Textile Machinery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 1, 1919. Serial No. 341,664. 4 Claims. (Cl. 34—12.)



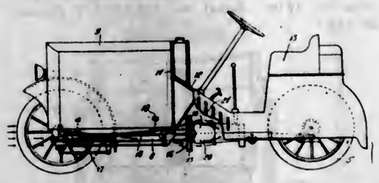
1. The combination in a drying apparatus, of a drying chamber; an endless chain conveyer therein; pans pivoted to the conveyer and hung below the chain, each pan having a lip at each end shaped so that the lip of one pan will interlock with the lip of an adjoining pan; means at each end for discharging the pans; means for releasing the lip of one pan from that of an adjoining pan; and means for feeding material to the pans.

1,393,004. VEHICLE-AXLE SUPPORT. CECIL McCOMB BILLINGS, Brooklyn, N. Y., assignor to Delmore Manufacturing Co., Inc., New York, N. Y., a Corporation of New York. Filed July 29, 1919. Serial No. 314,066. 3 Claims. (Cl. 280—96.2.)



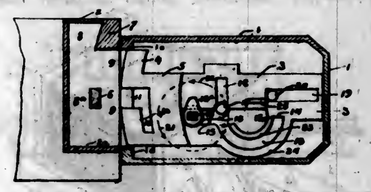
1. In combination with an axle, an upright cylindrical spring housing carried thereby and provided with a bearing at its upper end, a steering spindle journaled in said bearing and having at its upper end a laterally projecting arm carrying a bearing for a road wheel, a piston on the lower end portion of the spindle, said piston having a relatively long skirt portion working in the housing and providing a long sliding bearing for the lower end of the spindle, said spindle projecting below said piston and beyond the lower end of the housing, a steering arm engaged with said exposed lower end of the spindle and a spring within the housing interposed between said piston and the upper end wall of the housing.

1,393,005. MOTOR PARCEL-VEHICLE. CECIL M. BILLINGS, Brooklyn, N. Y., assignor to Delmore Manufacturing Co. Inc., New York, N. Y., a Corporation of New York. Filed Oct. 2, 1919. Serial No. 327,906. 5 Claims. (Cl. 180—1.)



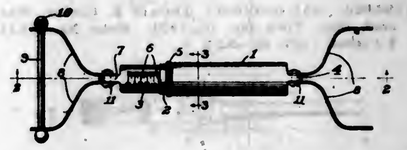
2. A motor vehicle of the class described provided with a downwardly and rearwardly inclined foot board and an internal combustion engine of the opposed cylinder type disposed beneath the foot board with the cylinders transversely of the vehicle and the fly wheel at the forward side thereof, said fly wheel being provided with fan blades for inducing a current of cooling air from beneath the front of the vehicle rearwardly beneath the downwardly inclined foot board and about the cylinders, and the cylinders of said motor having valve pockets at the forward side thereof directly in rear of the fan fly wheel referred to.

1,393,006. LOCK. ALEXANDER BLOCK, New York, N. Y. Filed July 13, 1920. Serial No. 396,899. 26 Claims. (Cl. 70—46.)



1. In a lock, the combination of a bolt, means for actuating said bolt, key operated mechanism for operating said actuating means, and a spindle key connecting said mechanism with said actuating means, said key being movable in and out of said mechanism and adapted to operate said mechanism to allow said spindle key to operate the bolt actuating means.

1,393,007. EXPERIMENTAL TRUSS UNIT. HUGH E. BROWN, Chicago, Ill., assignor to W. M. Welch Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 25, 1921. Serial No. 447,644. 4 Claims. (Cl. 265—63.)



1. An experimental truss unit comprising a combined compression and expansion member, means for indicating the longitudinal stress, either compressive or expansive, to which said member is subjected, and hinge means carried by each end of said member.

1,393,008. ELECTRIC SIGN. MATTHEW J. CARBONI, New York, N. Y. Filed Nov. 12, 1920. Serial No. 423,590. 6 Claims. (Cl. 40—132.)

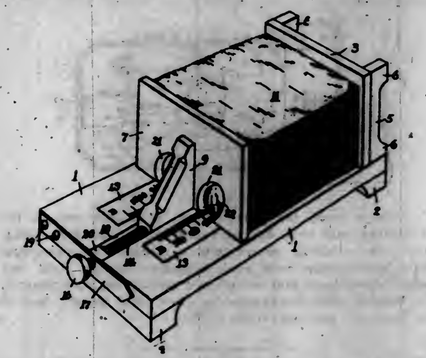


6. In a sign, an exchangeable transparent character, an adjustable light source, a set of substantially longitudinally disposed reflectors, another set of substantially transversely disposed reflectors, said reflectors grouped and set around the character and adapted to reflect the light toward the characters, respectively, from both sides, the top and bottom.

1,393,009. CARD-COUNTER. CHARLES E. CARROLL, Malden, Mass. Filed June 16, 1920. Serial No. 389,511. 5 Claims. (Cl. 33—143.)

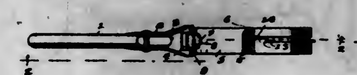
1. A counting device for cards and the like comprising a horizontally extended base, a stationary bracket rising from near one end of said base, a bracket slidably carried by said base, means for moving the slidable bracket

toward the stationary bracket, and a scale supported by the base to lie beneath the cards to be stood upon the base, the zero point of said scale being flush with



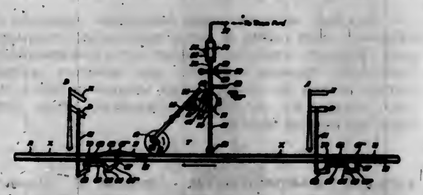
the surface of the stationary bracket next to the cards, whereby the outermost card adjacent the movable bracket will by its position on said scale designate the number of the cards between.

1,393,010. JAR-HOLDER. THOMAS S. CATLIN, Waveland, Ind. Filed Jan. 13, 1920. Serial No. 351,144. 4 Claims. (Cl. 81—3.2.)



1. The combination, with hand operating levers, of band sections adapted to form a clamping band and each having one end portion engaging the operating levers, one of said sections being formed intermediate its edges with tabs spaced along the section and the other with a slot to permit interlocking of the sections by engagement of one of the tabs with a terminal of the slot, the slot being of sufficient length to accommodate all of the tabs simultaneously.

1,393,011. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. ALBERT V. T. DAY, New Rochelle, N. Y., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Continuation of renewal application Serial No. 193,894, filed Sept. 26, 1917, and a division of application Serial No. 637,773, filed July 10, 1911. This application filed Apr. 4, 1918. Serial No. 226,584. Renewed Aug. 18, 1921. Serial No. 493,432. 7 Claims. (Cl. 246—177.)



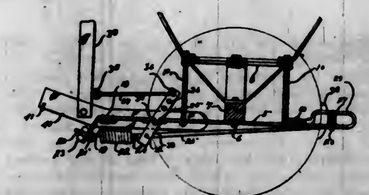
6. Railway traffic controlling apparatus comprising means on a vehicle arranged to change gradually toward an ultimate condition, within a given distance traveled by the vehicle, traffic governing apparatus on the vehicle controlled by said means, and devices located in the trackway and responsive to clear traffic conditions in advance for mechanically resetting said means away from ultimate condition before such condition is reached.

1,393,012. SHELF-SUPPORT. CHARLES H. J. DILG, New York, N. Y. Filed Dec. 13, 1917. Serial No. 206,893. 1 Claim. (Cl. 45—54.)



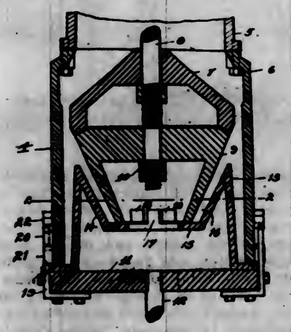
A reversible shelf support comprising a vertical sheet metal bearing plate having a stem or the like extending from one face of the plate in substantially the vertical medial line thereof, and having an eccentric horizontal supporting ledge struck out therefrom and extending from the opposite face of the plate intermediate its ends and disposed partially on each side of the vertical medial line, whereby the support is held in place in either of its reversed positions.

1,393,013. TRUCK-BRAKE. JAMES O. GARRETT, Denver, Colo. Filed July 3, 1919. Serial No. 308,564. 5 Claims. (Cl. 188—119.)



1. In brake mechanism of the class described, the combination of a reciprocable member, a brake bar connected with said member, a spring connecting the member with the vehicle, a pivoted tongue, a lever fulcrumed on a stationary part of the vehicle, one arm of the lever being pivotally connected with the member while the other arm is operatively connected with the tongue to normally support the latter in the raised position.

1,393,014. DIE FOR MAKING ARTICLES OF PLASTIC MATERIAL. ANDREW W. GATES, Monmouth, Ill. Filed June 13, 1919. Serial No. 303,821. 7 Claims. (Cl. 25—11.)



1. A mold for forming earthenware articles, comprising outer and inner die members shaped to form articles hav-

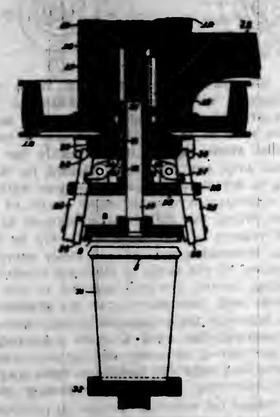
ing cylindrical and conical portions, and means for rotating one of said members and forcing it longitudinally with respect to the other member.

1,393,015. I-BEAM TROLLEY. WILLIAM S. HALSEY, Dover, N. J. Filed Feb. 26, 1921. Serial No. 447,943. 7 Claims. (Cl. 105—154.)



1. The combination with an I-beam supported in elevated position, of a truck having a pair of frame members arranged with their upper portions disposed between the flanges of the I-beam at opposite sides of its web, a pair of rotatable truck wheels, means projecting from the remote sides of said truck frame members and connecting with the truck wheels, said truck wheels being positioned to have a rolling contact with the lower flange of said I-beam, and means connecting the frame members adjacent their lower ends and adapted for connection with a load.

1,393,016. MEANS FOR SEALING RECEPTACLES. CHARLES HAMMER, Queens, N. Y., assignor to American Metal Cap Company, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 14, 1918. Serial No. 262,524. 13 Claims. (Cl. 226—87.)



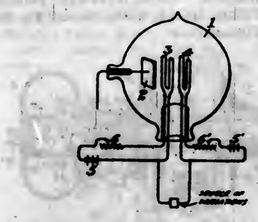
1. In a sealing press, a frame, a head mounted to rotate in the frame on a vertical axis, a carrier plate on the head slidable axially therein but rotating therewith, an anvil plate axially carried by the head for vertical movement in the head and carrier but prevented from rotation, a set of arms carried by the carrier and arranged to be raised relative to the carrier when the anvil and carrier are moved upward relative to the head, and sealing rolls carried by the arms arranged to press upward on a closure engaged by the anvil.

1,393,017. SCALE AND TRANSFER CAR. HENRY C. HETTENBATH and ERNEST K. SCOTT, Oak Park, Ill., assignors to Frank K. Hoover, Chicago, Ill. Filed Oct. 9, 1916. Serial No. 124,549. 18 Claims. (Cl. 265—42.)



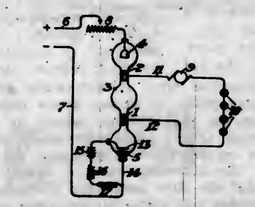
1. In combination with the frame and body of a car, a weight indicating device, automatic means having a predetermined range of movement acting normally to reduce the load of the car body on the weight indicating device, and means to overcome the said automatic means and permit the load to be weighed.

1,393,018. RELAY. PETER COOPER HEWITT, Ringwood Manor, N. J. Filed Mar. 9, 1916. Serial No. 83,027. 11 Claims. (Cl. 250—27.)



1. In an evacuated electric apparatus, a container having an anode and a cathode therein, means for heating said cathode, a conducting member acting as a screen inclosed within the container, and adjacent to the said anode and means for heating the said conducting member to a temperature having any desired relation to the temperature of the heated electrode.

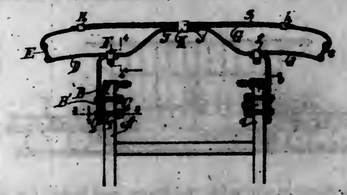
1,393,019. CONSTANT-CURRENT DISTRIBUTION SYSTEM. PETER COOPER HEWITT, Ringwood Manor, N. J. Filed Sept. 12, 1916. Serial No. 119,746. 10 Claims. (Cl. 171—97.)



1. In a system of electrical distribution, the method of controlling the current emissive capacity of an electrode which consists in subjecting said electrode to the influence of a medium carrying current, and maintaining said medium at a predetermined current density.

10. The combination of an electric device, having a positive and a negative electrode, means for causing a current flow therethrough, an electrode in the path of the current flow and means for constituting it a cathode for a second circuit, said cathode having a limited current emissive capacity.

1,393,020. WHEEL-FENDER. Alexander M. Hudson, New York, N. Y. Filed Jan. 29, 1919, Serial No. 273,703. Renewed Mar. 16, 1921. Serial No. 452,722. 5 Claims. (Cl. 296—58.)



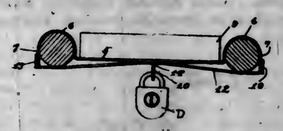
1. In a wheel fender, the combination with fender supports, of a main buffer front spring, a rear auxiliary spring, shackles pivotally connecting the outer ends of the main and rear springs and spacing the said ends apart, the said rear spring being bent forward in the middle and arranged in contact with the said front spring, and means for connecting the middle portion of the said front spring with the said rear spring.

1,393,021. KNOB-LOCK. Louis Huffman, Toronto, Ontario, Canada. Filed Mar. 3, 1919. Serial No. 280,414. 8 Claims. (Cl. 70—92.)



1. In an apparatus of the kind described having two knobs, a locking apparatus, means for moving said locking apparatus to operative position, and means actuated by the turning of one knob for releasing said locking apparatus.

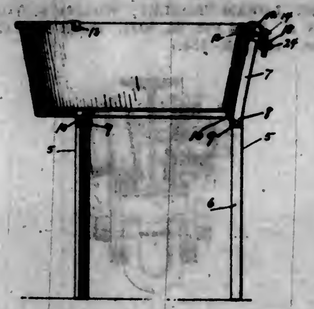
1,393,022. AUTMOBILE-LOCKING DEVICE. Joseph W. Hughes, Bethlehem, Pa. Filed Sept. 29, 1920. Serial No. 413,538. 2 Claims. (Cl. 70—126.)



1. The combination with an automobile including a brake and clutch pedal, of locking means therefor comprising a clamping plate, means carried by the plate for the reception of the brake and clutch pedal, supporting means carried by said plate for engaging the dashboard of the automobile and a second clamping plate embracing the first mentioned plate, means for detachably securing said plates to each other, said plates coöperating with each other through the medium of the supporting means of the first mentioned plate to prevent movement of the brake and clutch pedals.

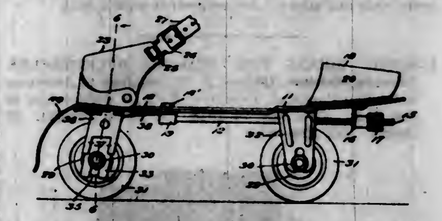
1,393,023. SUPPORT FOR TUBS AND THE LIKE. Charles L. Hyde, Plainfield, N. J. Filed Nov. 26, 1919. Serial No. 340,914. 2 Claims. (Cl. 68—35.)

1. A support for tubs and the like comprising a leg, a shelf on the inner face of the leg for supporting the tub, and a clamp for securing the tub to the support, said clamp consisting of upper and lower jaws, one jaw being extended in a fixed position to the upper end of the leg, and the other jaw being positioned above and movable relatively to the companion jaw and formed with a downturned lip to engage the inner edge of the



tub, and means connecting one jaw with the other and serving to exert a downward and outward drawing action on the upper jaw to draw the tub outward against the fixed lower jaw at the upper end of the leg and clamp it in place.

1,393,024. SKATE. William W. Karbo, Great Neck, N. Y. Filed May 4, 1920. Serial No. 378,888. 6 Claims. (Cl. 46—51.)



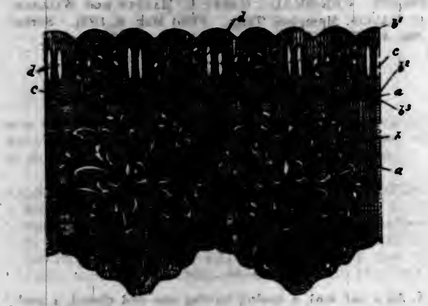
1. The combination with a skate, of a toe stirrup carried thereby, said stirrup comprising a plate positioned transversely of the skate, a flexible member connecting the ends of the plate to provide a toe receiving loop, headed studs carried by the skate for detachable engagement with key hole slots formed in the plate of the stirrup to detachably connect the same with the skate.

2. The combination with a roller skate, of means for slidably mounting the rollers in a manner to permit of vertical movement of the skate relatively to the rollers, said means comprising a U shaped roller carrying frame, a guide secured to the skate to slidingly receive the roller and a spring having one end secured to the skate and the opposite end secured to the U shaped frame to yieldingly hold the latter against sliding movement.

4. The combination with a skate including separate heel and toe plates, of a rod having one end connected to the heel plate, said rod having a right angularly disposed pin extending through an opening in the heel plate and means for securing the pin in position, whereby the rod may have a horizontal pivotal movement and means for securing the opposite end of the rod to the toe plate.

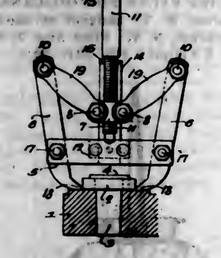
1,393,025. FABRIC. Max Katz, New York, N. Y., assignor to Voss & Stern, New York, N. Y., a Copartnership composed of Philip Voss, Emanuel Voss, and Morris Voss. Filed Apr. 6, 1920. Serial No. 371,671. 1 Claim. (Cl. 2—146.)

A fabric adapted to constitute the upper portion of an underwaist comprising a foundation of decorative design, reinforcements upon said foundation spaced from each other transversely of the fabric and extending in continuous lines longitudinally thereof, said reinforcements being close together and constituting guides between which the foundation of the fabric may be cut



and a plurality of supplemental reinforcements extending between and connecting the first named reinforcements at spaced intervals, any two of said supplemental reinforcements forming the opposite end terminals of said cut.

1,393,026. PULLER FOR CRANK-PINS, &c. Grosvenor G. Keplar, Pottstown, Pa., assignor of one-half to Henry D. Sayler, Pottstown, Pa. Filed Feb. 6, 1920. Serial No. 356,711. 3 Claims. (Cl. 29—96.1.)

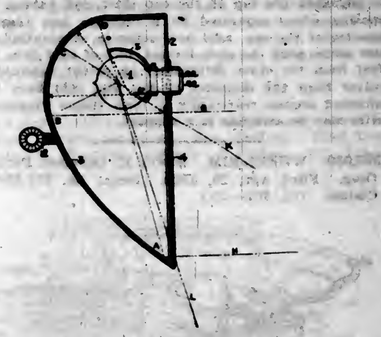


3. The combination in a puller for pins and like objects, of a cross bar; two arms pivoted to the cross bar, each arm having a tapered jaw, each jaw being curved at the edge; a nut; links connecting the nut with the arms; and a screw extending through the nut and bearing upon the cross bar.

1,393,027. LIGHT-PROJECTOR. Harold Kirschberg, Pittsburgh, Pa. Filed Dec. 18, 1916. Serial No. 137,650. 1 Claim. (Cl. 240—41.)

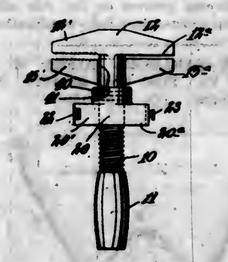
A light projector having a source of light, a primary reflector having a parabolic curve entirely below the source of light, and having a plurality of generated curves extending up from the first-named parabolic curve to a limiting line passing through the source of light and perpendicular to the axis of said parabolic curve, whereby the rays reflected by these generated curves are redirected

below said axis and out of the reflector, and a secondary reflector forming a screen to shut off all upwardly di-



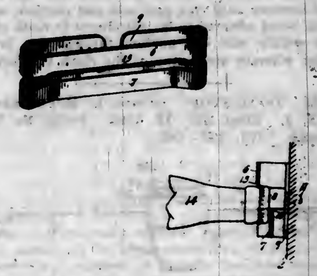
rected rays from said source of light except such rays as would normally fall on the primary reflector and redirecting such rays on to said primary reflector.

1,393,028. COMBINATION MONKEY AND PIPE WRENCH. Felix Kobis, Worcester, Mass. Filed Apr. 29, 1921. Serial No. 465,461. 3 Claims. (Cl. 81—156.)



1. In a wrench, a threaded shank, a two part nut having a detachable engagement therewith, and a movable jaw element having a swivel connection with said two part nut, said shank being longitudinally slotted to receive said jaw element.

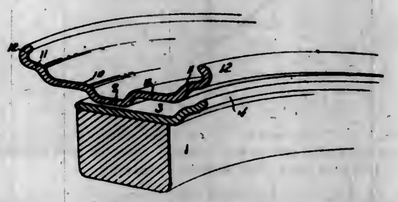
1,393,029. OPENER. Constant J. Kryzanowsky, Mount Washington, Md., assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed May 18, 1917. Serial No. 169,424. 4 Claims. (Cl. 65—46.)



1. As a new article of manufacture, a device for removing crown caps from bottles and the like, comprising

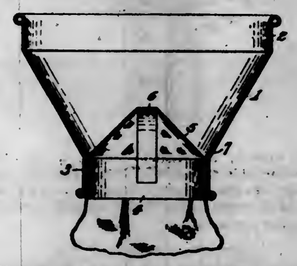
a pair of bars constituting a bearer against which the top of the cap to be removed is forced and a remover for engaging the top of the cap skirt and having their opposing edges separated by a distance less than the diameter of the cap, said bars being in substantially the same plane near the ends thereof, one of said bars being offset from the other throughout an extent substantially greater than the diameter of the cap, said bars being continued around rearwardly to form means whereby the device may be attached to a support.

1,393,030. WHEEL-RIM. HENRY M. LAMBERT, Portland, Oreg. Filed Apr. 29, 1920. Serial No. 377,576. 3 Claims. (Cl. 301—20.)



1. A rim comprising an annular ring-like body having an annular depression of less radius than the radius of said ring-like body, the edges of said ring-like body being extended to form tire holding flanges, said depressed portion having transverse grooves on the side adjacent the center of curvature to pass over felly band buttons.

1,393,031. MILK-STRAINER. ALBERT M. LORENTZ, McMechen, W. Va. Filed Nov. 20, 1920. Serial No. 425,375. 3 Claims. (Cl. 210—159.)



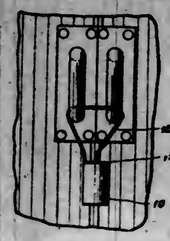
1. A strainer comprising a casing having an open substantially cylindrical lower end portion, a metal ring adapted to be removably disposed within the embrace of said end portion, an upright arch carried by said ring, and a strainer cloth overlying said arch and said ring and clamped between said ring and said end portion, said ring and cloth being adapted to be introduced to cloth clamping position within said end portion through the bottom of the latter whereby stretching of the cloth is effected.

1,393,032. DOOR-STOP. DANIEL L. MCFEEGANS, Newark, N. J. Filed Mar. 16, 1920. Serial No. 366,275. 2 Claims. (Cl. 292—262.)



1. A door stop comprising a supporting plate and a cup-shaped member with a top plate thereon, the top plate being swiveled to the supporting plate, the cup-shaped member having a cut away portion at the top, a spring in the cup-shaped member, a latch plate floating on the spring, a rod pivoted at one end and sliding in the cut away portion and in contact with the latch, the rod having a recessed part at its end to receive the latch.

1,393,033. CAR-SEAL. HARRY L. MARTIN and WILLIAM C. WILLIS, Memphis, Tenn. Filed Mar. 9, 1921. Serial No. 451,011. 4 Claims. (Cl. 292—324.)



1. In a car seal, a casing having one end closed, a sealing strip secured to the casing at the open end thereof, a foldable closure flap for the open end of the casing having an opening formed therein, a guide member disposed within the casing, having a portion extending through the opening of the foldable closure and embodying a shoulder engaging the inner face of the foldable closure to prevent inward movement thereof, the portion of said guide extending through the opening of the foldable closure forming a guide whereby the free end of the sealing strip may be introduced to the casing, and means within the casing disposed in the path of the sealing strip adapted when shifted to lock said sealing strip against withdrawal from said casing, said sealing strip embodying a shoulder engaging the outer face of the foldable closure to prevent outward movement thereof.

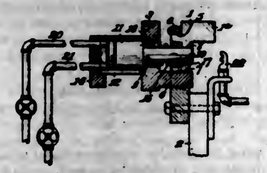
1,393,034. RELIEF-VALVE FOR OIL-CANS. HARRY B. MILLER, Syracuse, N. Y., assignor of one-half to Saul Kauffman, Syracuse, N. Y. Filed Aug. 7, 1920. Serial No. 401,978. 3 Claims. (Cl. 221—59.)



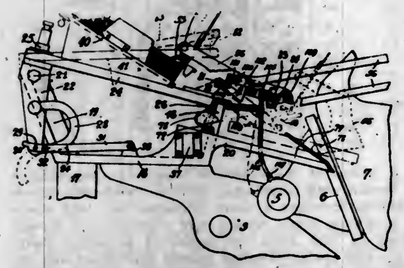
1. The combination with a can and a hollow cap, the latter having corresponding perforations, of a tube extending between said perforations, a valve disposed in said tube, and a spring having sufficient tension to normally hold said valve seated in one of said perforations.

1,393,035. PRESS FOR ARMATURE-COILS. STEPHEN W. MORRIS, Wheeling, W. Va., assignor of one-half to Gen Electric Company, Wheeling, W. Va., a Corporation of West Virginia. Filed Oct. 7, 1920. Serial No. 415,437. 6 Claims. (Cl. 138—10.)

1. A hydraulic press comprising a cylinder, a plunger in said cylinder, a jaw associated with said plunger and adapted to be advanced through outward actuation of the latter, a stationary jaw with which said movable jaw cooperates when the latter occupies its advanced position, guiding means for said plunger including a stem, and tension means carried by said stem and normally holding said movable jaw and said plunger in retracted positions, one of said jaws being offset to provide a seating ledge.

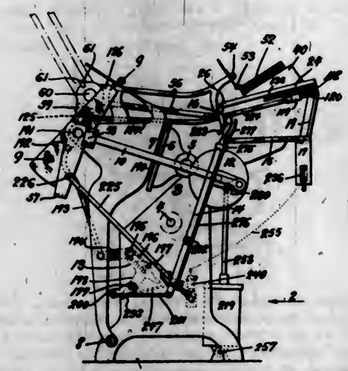


1,393,036. TRANSFER MECHANISM FOR PRINTING-MACHINES. LEWIS E. MORRISON, Newark, N. J., assignor to himself and S. Haines Plum, 2d, Madison, N. J. Original application filed May 29, 1919, Serial No. 300,702. Divided and this application filed Jan. 20, 1920. Serial No. 352,750. 11 Claims. (Cl. 101—287.)



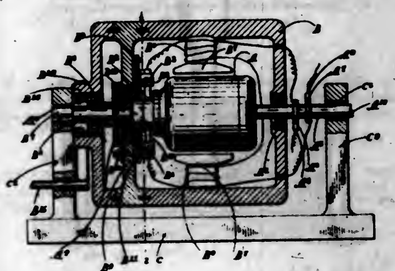
4. The combination with a printing machine, a movable platen, paper supporting means, of a transfer table interposed between the latter and the said platen and mechanism for swinging the said paper supporting means and the said transfer table upward and to one side away from operative relationship with the said platen.

1,393,037. TRIPPING MECHANISM FOR PRINTING-MACHINES. LEWIS E. MORRISON, Newark, N. J., assignor to himself and S. Haines Plum, 2d, Madison, N. J. Original application filed May 29, 1919, Serial No. 300,702. Divided and this application filed Feb. 21, 1920. Serial No. 360,332. 8 Claims. (Cl. 101—299.)



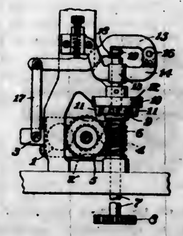
4. The combination of a tripping mechanism, an operating lever therefor, a member mounted on said lever, a spring for holding said member in normal active position, a link having a shoulder adapted to engage said member in its active position to operate said lever, suction means for moving said member into inactive position, means for maintaining said member in inactive position while the said link moves past the same and means on said link for restoring the said member.

1,393,038. ELECTRIC GENERATOR AND MOTOR. ROBERT RANKIN, Leamington Spa, England. Filed Dec. 15, 1920. Serial No. 430,919. 5 Claims. (Cl. 171—221.)



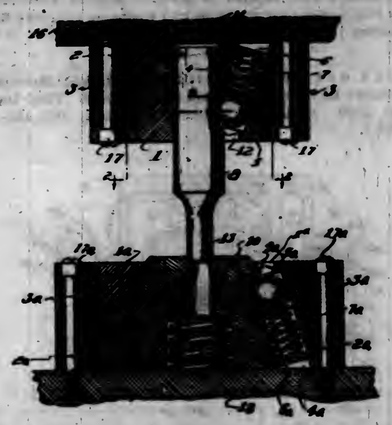
1. In an electric machine, the combination of a rotating armature, a commutator on said armature, brushes engaging said commutator, a field system normally stationary but adapted to revolve freely in one direction and to move through a limited angle in the opposite direction, a spring acting to oppose such limited angular movement, and a brake adapted to hold said field system against rotation, substantially as set forth.

1,393,039. TAKE-UP MECHANISM FOR KNITTING-MACHINES. FRANK P. REYNOLDS, Norristown, Pa., assignor to Ballard Knitting Co., Norristown, Pa., a Corporation of Pennsylvania. Filed May 17, 1920. Serial No. 382,006. 8 Claims. (Cl. 66—9.)



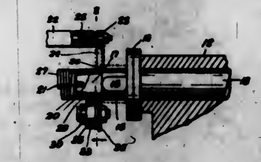
1. In combination in a take-up for knitting machines, a pair of take-up rolls, a movable support therefor, a worm and worm wheel for driving the take-up rolls, a clutch member connected with the worm having an inclined shoulder, a drive shaft extending up through the worm, a clutch member fixed on the drive shaft to move vertically therewith, having a taper pin to coact with the inclined shoulder on the clutch member first mentioned, a lever connected with the movable support of the take-up rolls and operating to effect a positive lifting action on the upper clutch member to release the side face of the taper pin from the inclined shoulder when the support of the take-up rolls moves upwardly, substantially as described.

1,393,040. PUNCH AND DIE RETAINER. CLEMENT C. RICHARD, CLARENCE A. RICHARD, and OTIS K. RICHARD, Detroit, Mich. Filed Nov. 19, 1919. Serial No. 339,136. 6 Claims. (Cl. 164—118.)



1. In a retainer for punches, dies and similar tools, a base, a supporting member removably secured thereto and having a central aperture, a tool retainer held in position by the supporting member, the tool retainer having a central aperture, a spring-pressed ball supported by the retainer and normally extending into the aperture therein, the tool being adapted to fit in the aperture and seat against the base and having an arcuate groove of a radius greater than the radius of the ball in the face thereof in which the ball may engage to bind the tool in position.

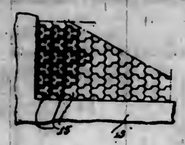
1,393,041. APPARATUS FOR MAKING CHAIN-LINKS. CHARLES ROBERTSON and LOUIS LAUPOT, Stroudsburg, Pa., assignors to Universal Chain Co., Inc., Stroudsburg, Pa., a Corporation of Pennsylvania. Filed Sept. 10, 1919. Serial No. 322,813. 2 Claims. (Cl. 153—65.)



1. An apparatus of the class described comprising a rotatable mandrel, a tensionally operated roller cooperating with said mandrel to form from a rod or wire fed therebetween a spiral coil, said mandrel tapering outwardly, and means movable longitudinally of said mandrel for advancing the separate windings of said coil, when formed, onto the tapered portion of said mandrel.

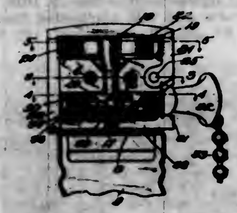
1,393,042. RADIATOR-CORE. WILLIAM SACKREN, Brooklyn, N. Y. Filed Mar. 24, 1920. Serial No. 368,886. 10 Claims. (Cl. 257—128.)

1. In a device of the character described, the combination of a plurality of tubes of substantially clover-shaped form, each tube having enlarged ends forming a combination of three hexagons, said ends, forming a homogeneous part of said tube, adapted to be united to the enlarged tri-hexagon ends of the adjacent tubes, the substantially clover-shaped portion of said tubes between



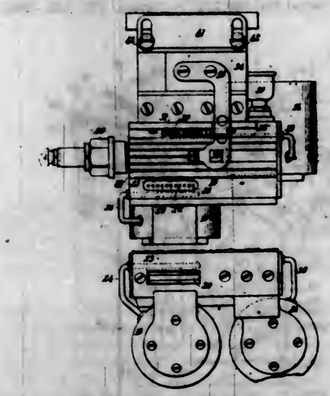
their ends being of smaller cross-sectional area than the ends, thus forming a circulation space around the tubes.

1,393,043. PULL-SOCKET. RALPH A. SCHORNBERG, now by judicial change of name Ralph A. Belmont, New York, N. Y., assignor to Beaver Machine and Tool Co., Inc., Newark, N. J., a Corporation of New Jersey. Filed Apr. 28, 1916. Serial No. 94,141. 5 Claims. (Cl. 173—354.)



2. A device of the character described comprising a body formed with an interior chamber; a circuit-controlling switch including a shaft extending into said chamber; a ratchet wheel within said chamber and loosely mounted on said shaft but connected to rotate therewith; a pull chain extending around said wheel and engaging the latter; a chain-supporting member within said chamber loosely mounted on said shaft and having the inner end of said chain connected therewith; and a spring in said chamber connected at one end with said member and at its opposite end to said body, walls of said chamber serving to hold said wheel and member against movement endwise on said shaft.

1,393,044. CARBURETER. CARL F. SCHULZ, New York, N. Y. Filed July 27, 1914, Serial No. 853,287. Renewed Feb. 1, 1921. Serial No. 441,640½. 12 Claims. (Cl. 48—62.)

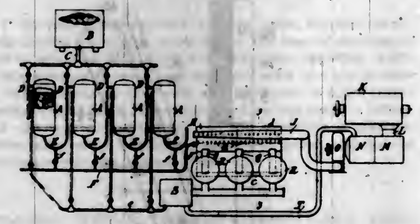


1. A carbureter, the combination with a chamber of variable capacity and means for varying the capacity of

same, means for admitting oil and air into such chamber in amounts sufficient to support partial combustion, means for adjusting the supply of oil and air to increase the same with the expansion of the chamber, means for starting a flame in said chamber in connection with such oil and air, means for atomizing water across the flame, and means for admitting extra air to form a combustible mixture.

12. In a carbureter, the combination with a delivery chamber, having a plurality of separate passages, a series of admission ports to said passages, a valve for controlling the openings to said passages and for controlling the said ports in unison, and adjustable means for admitting extra air to said delivery chamber.

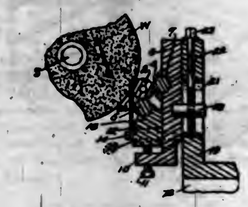
1,393,045. PROCESS FOR PRODUCING SOLUBLE CONCENTRATED COFFEE. JOHN W. SCOTT, Englewood, N. J., assignor to Arbuckle Brothers, New York, N. Y., a Firm composed of William A. Jamison, Catherine A. Jamison, and Christina Arbuckle. Filed Sept. 24, 1918. Serial No. 255,509. 10 Claims. (Cl. 99—5.)



2. The method of producing a coffee concentrate consisting in supplying a liquid to successive vessels containing ground coffee, the liquid when at its highest temperature permeating the most spent mass of coffee, and passing at a lower temperature to masses of coffee of successively increasing strength, whereby to obtain an extract rich in aroma, and atomizing the liquor thus formed into a highly heated blast to accomplish instantaneous concentration and retain the aroma in the product.

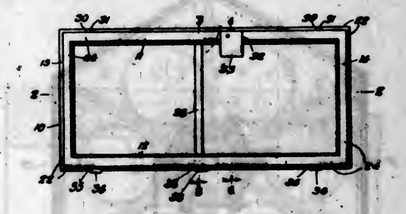
7. A method of producing a coffee concentrate consisting in first producing a coffee extract and then atomizing such extract into a highly heated blast containing aromatic and volatile products obtained from coffee roasting.

1,393,046. WRIST-PIN GRINDER. JOSEPH SINGER, Los Angeles, Calif. Filed Jan. 2, 1920. Serial No. 349,012. 8 Claims. (Cl. 51—238.)



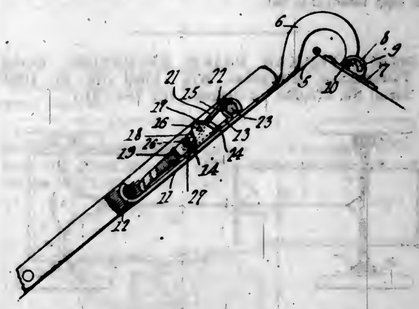
1. In a device for grinding and polishing cylindrical objects, a rotatably mounted grinding wheel and a support for the object to be ground, comprising an adjustable support and a pair of parallel cylindrical members journaled on said support and adapted to receive the object to be ground and polished, one of which cylindrical members is adjustable toward and away from the other.

1,393,047. DOOR. JOSEPH SOSS, New York, N. Y. Filed Jan. 21, 1920. Serial No. 353,037. 7 Claims. (Cl. 189—46.)



6. A motor vehicle door frame work composed of a die cast metal unit and a sheet metal member partially embedded in and forming a facing or part of said unit.

1,393,048. LADDER-HOOK. FRED M. STILES, Norristown, Pa. Filed Sept. 9, 1920. Serial No. 409,088. 3 Claims. (Cl. 228—51.)



3. A ladder supporting hook including a body portion, a hook member formed at each end thereof, a stationary hook member secured to the body portion intermediate the ends thereof, a lever having pivotal connection with the stationary hook member, curved arms coöperating with the stationary hook member for gripping a ladder rung, and said curved arms having connection with the operating lever, whereby movement of the operating lever moves the curved arms into engagement with a ladder rung.

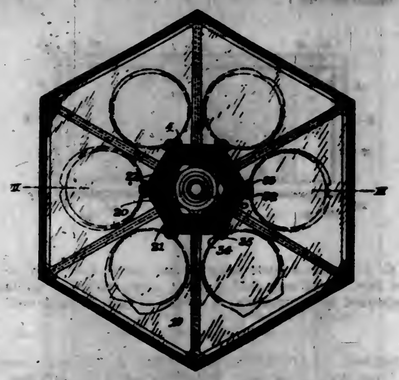
1,393,049. PROCESS OF MANUFACTURING FERRUGINOUS PREPARATIONS. FRANZ STOHR, Vienna, Austria. Filed Mar. 3, 1921. Serial No. 449,518. 3 Claims. (Cl. 99—11.)

1. A process for manufacturing a ferruginous preparation consisting: in adding to milk a reducing agent, cane sugar, and invert sugar in a larger quantity than cane sugar, in then adding to the mixture commercial ferrisaccharate and an alkali compound of alkaline reaction, whereby any acid reaction of the mixture is removed, and in then heating the mixture in a vacuum, whereby the liquid is evaporated until the desired consistency of the preparation is attained, substantially as described herein.

1,393,050. DISPLAY APPARATUS. JOHN E. TALLEY and JOHN WILMER THOMPSON, Philadelphia, Pa. Filed June 7, 1918. Serial No. 238,688. 4 Claims. (Cl. 211—21.)

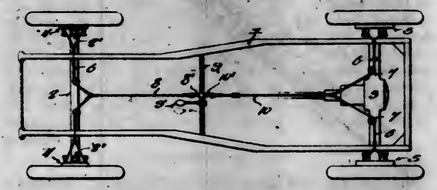
1. In a display fixture, the combination of a base, a transparent casing surmounting said base, a central

pedestal having a plurality of plane surfaces, a removable bar carried by said central pedestal at the junction of



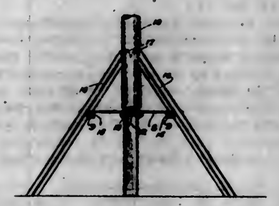
said plane surfaces, and goods supporting means mounted on said removable bar.

1,393,051. VEHICLE BRAKE MECHANISM. FRANK TAMBORELLO, Milwaukee, Wis. Filed Apr. 21, 1920. Serial No. 375,689. 2 Claims. (Cl. 188—31.)



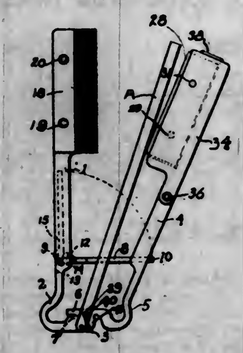
1. In a vehicle having a stationary axle and a wheel mounted thereon, a braking plate provided with notches, a stationary plate carried by the axle, a cylinder carried by said stationary plate, a plunger disposed within said cylinder, a spring for urging the plunger into said cylinder, pulleys mounted upon the sides of the cylinder and cables connected to the plunger and passing over said pulleys for projecting the plunger from the cylinder to engage said notches and lock the braking plate against movement.

1,393,052. SUPPORT. WILLIAM T. TANKING, JR., Racine, Wis. Filed Aug. 5, 1919. Serial No. 315,407. 2 Claims. (Cl. 248—38.)



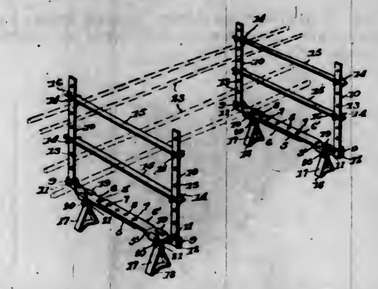
2. A support of the class described, comprising a substantially triangular platform formed of sheet metal and provided with a central aperture and a notched recess at each corner, a pair of spaced ears struck from said platform at each recess, a sheet metal supporting leg disposed in each recess having pivotal engagement with the adjacent pair of ears, said supporting legs being extended upwardly beyond their pivots, a centering pin adapted to be partially driven longitudinally into the base of the member being supported before said member is positioned on said support, the projecting end of said pin being adapted to slip into said aperture, prongs formed on the upper ends of each of said supporting legs and adapted to engage the member being supported whereby said pin may be driven into the base of said member and said member then positioned in said support with said pin projecting through said aperture and the prongs in engagement with the sides of said member, the weight of said member causing said prongs to effectively bite thereinto, and a depending reinforcing flange formed on the side edges of said platform.

1,393,053. HAIR-CUTTING DEVICE. FERDINAND J. TILLMAN, St. Louis, Mo. Filed June 12, 1919. Serial No. 303,807. 9 Claims. (Cl. 30—12.)



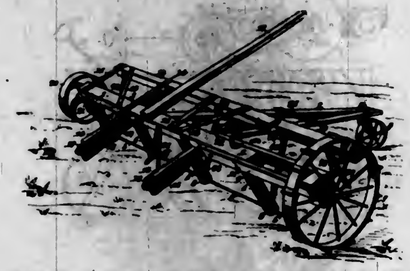
1. In a hair cutting device a movable cutting edge, a movable comb, said cutting edge adapted to be moved out of traveling cutting alinement from said comb, and a guiding member extending from said comb to said cutting edge.

1,393,054. MATERIAL-RACK. GILES M. TURNER, Milwaukee, Wis. Filed Apr. 12, 1919. Serial No. 289,604. 5 Claims. (Cl. 211—14.)



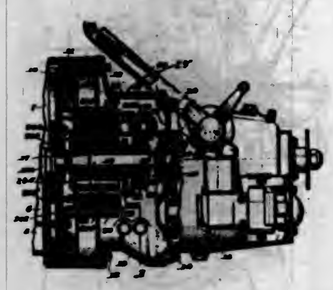
3. A material rack, comprising a transverse member having its opposite side portions adjacent its ends bent upwardly to form U-shape bearings, angular supporting legs clamped to the transverse member, end members pivotally connected to the U-shaped bearing portions and having projections which limit their outward movement, and spacing bars removably connected to the end members.

1,393,055. ROTARY-ROD WEEDER. LOUIS C. VAN PATTEN and JOEL B. WOLFE, Cheney, Wash., assignors to Rotary Rod Weeder and Manufacturing Company, Incorporated, Cheney, Wash. Filed May 8, 1920, Serial No. 379,859. Renewed June 21, 1921. Serial No. 479,312. 17 Claims. (Cl. 97—25.)



1. In rotary rod weeders, a main beam, bearing standards carried thereby, a hitch bar at the rear of said beam, means securing said hitch bar and beam together, draft bars extending forwardly of the main beam in a plane close to that containing the beam and hitch bar, a tiller frame hinged to said beam, a lever for rocking the beam, a rotary rod, driving mechanism for the rod including a traction wheel adjustably carried by the main beam, and means forming a fulcrum for said lever.

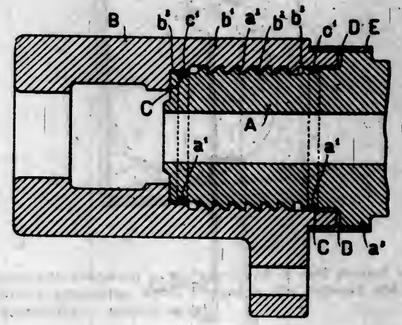
1,393,056. CLUTCH. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Original application filed Jan. 31, 1916, Serial No. 75,414. Divided and this application filed Nov. 27, 1918. Serial No. 264,437. 6 Claims. (Cl. 192—113.)



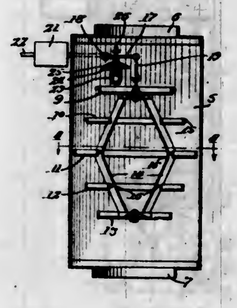
6. In a motor vehicle having a clutch comprising driving and driven members and a casing surrounding the same, means to actuate the clutch including a shiftable element rotatable with one member of the clutch, and a rockable device engaging said element to shift the same, said device being constructed to conduct lubricant from outside the casing to lubricate the contacting surfaces of said device and element.

1,393,057. GUN-BARREL WITH A BREECH-PIECE SCREWED ON AN A-TUBE. JOHN VOLLMER, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Dec. 3, 1920. Serial No. 428,087. 3 Claims. (Cl. 89—16.)

1. A gun barrel and breech-piece screw-threadedly united, said union being formed so as to provide a radial clearance between the parts, said gun barrel and breech-piece being formed with bearing surfaces on both sides of said screw-threads, said surfaces being curved concentrically to the bore axis of the gun barrel and coöperating to maintain said radial clearance when the parts are screwed together.



1,393,058. HUMIDIFIER. JAMES E. WHITACRE, Rockford, Ill. Filed Mar. 12, 1919. Serial No. 282,248. 3 Claims. (Cl. 261—119.)

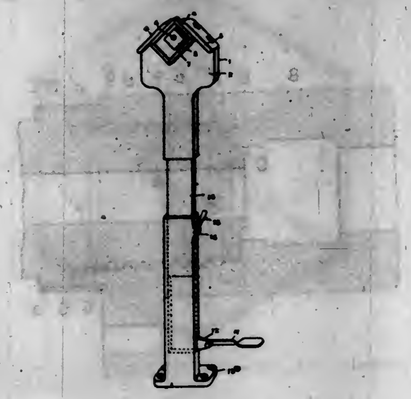


2. A humidifier comprising an inlet air conduit down through which the air passes, a series of relatively shallow water containers within the conduit, each container having a different surface area for evaporation, means for supplying water to said containers, and means for automatically shutting off said supply when a predetermined quantity of water has been delivered to the containers and for replenishing the containers when said quantity through evaporation is lowered.

1,393,059. PICTURE-FRAME VISE. ALBERT JAMES WHITE, Toronto, Ontario, Canada. Filed Jan. 28, 1920. Serial No. 354,706. 3 Claims. (Cl. 144—293.)

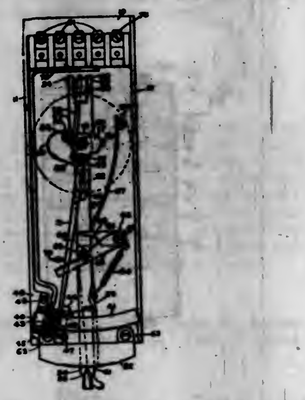
1. A picture frame vise, comprising, a head having a flat face and a pair of flanges projecting from said face and arranged in right angular relation one to the other and

spaced apart, and a block adapted to be moved into engagement with the molding to hold it against said flanges, said



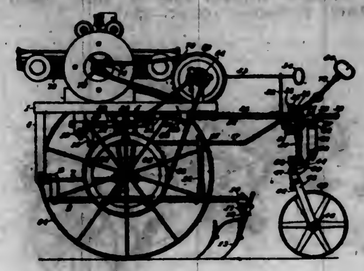
block being supported so as to automatically adjust itself laterally to any inequality of width of molding.

1,393,060. HEAT-REGULATOR. EVERETT H. WHITE, St. Paul, Minn. Filed Sept. 12, 1919. Serial No. 323,394. 6 Claims. (Cl. 200—140.)



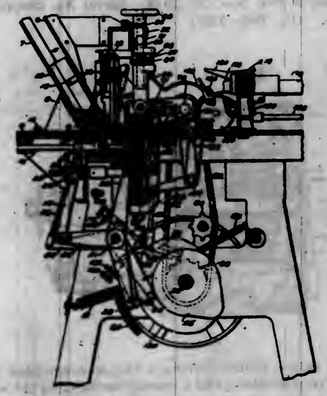
1. A heat regulator comprising a thermostatic member, a movable contact member, operating connections between said thermostatic member and said contact member, fixed contact members adapted to be successively engaged by said movable contact member, a control member adapted to vary the positioning of said movable contact member tively to said fixed contact members for a given room rature, means tending to maintain said control mem- position corresponding to a relatively high room re, and means for locking and rendering said last means inoperative when said control member ally moved to a position corresponding to a temperature, said last mentioned means be- eration by a time controlled device for nd thereby causing said control mem- ally to its first mentioned position.

1,393,061. CULTIVATOR. DALTON K. WILSON, Webster City, Iowa. Filed Dec. 13, 1919. Serial No. 345,612. 10 Claims. (Cl. 97—42.)



1. In combination, means of transportation, soil-working implements movably supported thereon, interconnected mechanisms for both steering said means of transportation and for variably shifting said soil-working implements and connected releasable means for locking said mechanisms in a certain relation to said means of transportation.

1,393,062. MACHINE FOR OPERATING ON HEEL-LIFTS OR THE LIKE. ERASTUS E. WINKLEY, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 29, 1915. Serial No. 69,207. 58 Claims. (Cl. 69—13.)

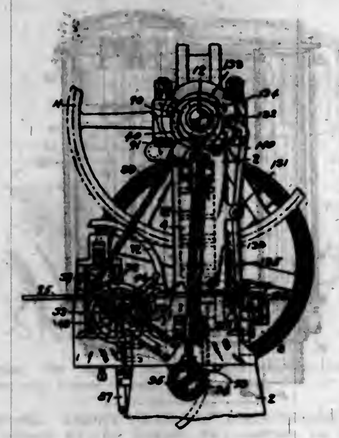


1. A machine of the character described, having in combination, means for operating on lifts or the like, a support along which the lifts travel after being operated upon by said means, a rotary carrier adjacent said support, and a series of clamps on said carrier successively operative to take the lifts away from said support.

1,393,063. MACHINE FOR MAKING NUTS. ANDREW WOLFRAM, Dermont, Pa. Filed May 28, 1920. Serial No. 385,003. 20 Claims. (Cl. 10—72.)

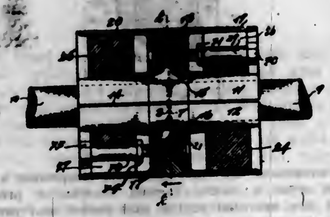
1. A machine for making nuts comprising a plurality of dies, means for forcing a nut blank vertically through one

of the said dies and for automatically transferring the said blanks from the said die to another of said dies, the latter



die being laterally displaced from said first die, and means for forcing the said blanks vertically through the said second die.

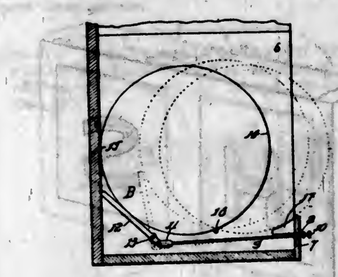
1,393,064. SHAFT-COUPLING. ARTHUR C. WOODWARD, Cranford, N. J., assignor to The A. & F. Brown Company, Elizabethport, N. J., a Corporation of New Jersey. Filed May 5, 1920. Serial No. 379,010. 14 Claims. (Cl. 287—114.)



1. A shaft-coupling comprising two shaft-engaging sleeves having their exterior surfaces tapered toward their ends, an outer shell surrounding the sleeves, two sleeve-engaging collars interposed between the sleeve and outer shell, and means bearing on the outer faces of said collars to inwardly wedge each collar separately between the sleeves and outer shell.

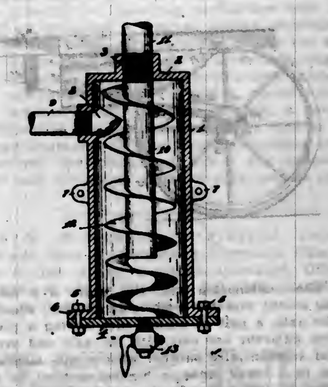
1,393,065. INDIVIDUAL-RECORD EJECTOR FOR GRAPHOPHONE-CABINETS. WALTER J. YOUNG, St. Louis, Mo. Filed Sept. 17, 1920. Serial No. 410,910. 1 Claim. (Cl. 211—16.)

A device of the character described comprising in combination with a graphophone cabinet, a compartment having a plurality of partitions, a pivotally mounted arm located in the bottom of each space between the partitions, a hurdle pivot extended through the entire series of partitions, an operating rod located in each compartment and



pivotally connected to the lower end of said pivoted arm, and a supporting wedge located in the forward end for supporting an ejected record.

1,393,066. WATER-TRAP FOR AIR-LINES. CHARLES E. ATKINSON, South Bend, Ind. Filed Apr. 12, 1920. Serial No. 373,295. 2 Claims. (Cl. 183—81.)

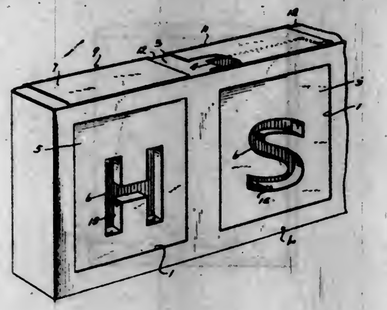


1. A water trap for air conducting lines comprising a casing, an outlet pipe extending downwardly into and terminating short at the bottom of the casing, a spiral baffle member encircling said outlet pipe from a point adjacent the upper end of the casing to its lower end, the lower end of said spiral baffle member extending below the lower end of the outlet pipe, thereby forming means for conducting the water downwardly to a point below the lower end of the outlet pipe and an inlet pipe connected to the casing adjacent its upper end.

1,393,067. SIGN. WILLIAM BACH, Atlantic City, N. J. Filed Apr. 25, 1921. Serial No. 464,080. 3 Claims. (Cl. 40—133.)

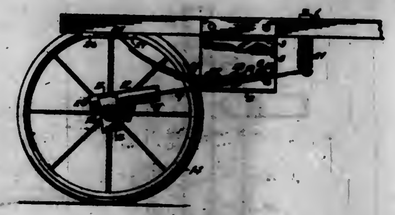
1. A sign of the class described comprising a casing provided with a reflecting rear wall, a front plate provided with an opening defining a sign character, a stripping de-

fining the opening, said stripping being substantially at right angles with the plate, and an illuminating element



positioned in close proximity to but entirely to one side of the opening, said illuminating member being inwardly of the plate.

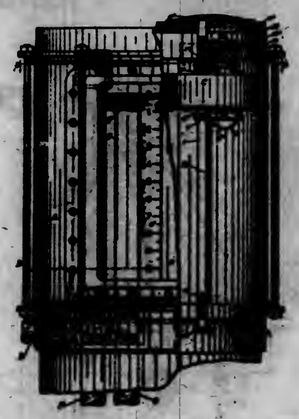
1,393,068. SPRING-MOUNT FOR VEHICLES. HASTINGS BULLEN BACON, Virginia, Minn. Filed July 24, 1920. Serial No. 398,610. 4 Claims. (Cl. 267—19.)



4. The combination with the frame of a vehicle of a spring mount therefor comprising an axle, wheels carried by the axle, a pair of beams, each having a pivotal connection adjacent one end with the axle and arranged to extend substantially parallel with a side member of the frame in a lower plane, a bracket secured to each side member of the frame to depend therebelow, means for pivoting each beam intermediate its length to said bracket, tension means connecting the free end of said beam with the side member of the frame, a leaf spring disposed between that portion of each beam extending between the bracket and the axle and the side member of the frame, and a guideway secured to the under surface of said side member of the frame, said guideway being adapted to receive the adjacent end of said leaf spring and to permit slidable movement of the latter therealong.

1,393,069. FLOAT-REGISTER. LINNAEUS E. BAKER, Fort Wayne, Ind., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Nov. 24, 1919. Serial No. 340,842. 3 Claims. (Cl. 235—94.)

1. A device of the class described comprising a container, a float adapted to rest by its buoyancy at all times on the surface of the contained liquid and move vertically therewith; fixed vertical guides secured within the container; guide wheels upon the float in rolling contact with said fixed guides; and counting mechanism



operated by and registering the vertical movements of the float.

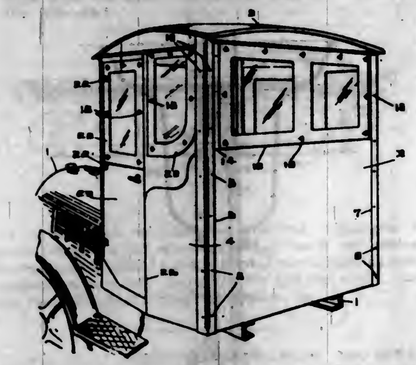
1,393,070. WRENCH. JOSEPH L. BARNES, Pittsburgh, Pa. Filed May 18, 1920. Serial No. 382,218. 5 Claims. (Cl. 81—111.)

1. A wrench of the class described comprising a head provided with a socket formed therein, a pivotally mounted jaw mounted within said socket and provided with an elongated arm, a spring engaging the lower end of said arm and mounted within said socket for normally holding said arm in a vertical position, said jaw provided with a plurality of inwardly extending fingers adapted to overhang said head whereby the jaw will be held against swinging movement when engaged by a nut, and an adjustable jaw cooperating with said swinging jaw.

1,393,071. TRUCK-CAB. KENNETH S. BAXTER, Bryan, Ohio, assignor, by mesne assignments, to The Sheet Steel Products Co., Michigan City, Ind., a Corporation of Indiana. Filed Nov. 12, 1918. Serial No. 262,125. 3 Claims. (Cl. 296—102.)

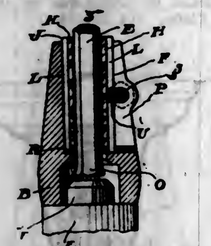
1. The combination with a vehicle seat having sides, a back extending between said sides and forming corners therewith, of a cab top for attachably mounting therewith, said top having lodge portions resting on the seat sides and back and further provided with embracing means extending downward from the upper portion of

the top over the back and adjoining side at the respective corners of the seat, and holding means for at-



taching the top to the seat by anchoring the corner embracing means to said seat.

1,393,072. FRONT HEAD FOR ROCK-DRILLS. LEWIS CONDICT BAYLES, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed July 6, 1920. Serial No. 394,193. 2 Claims. (Cl. 121—32.)



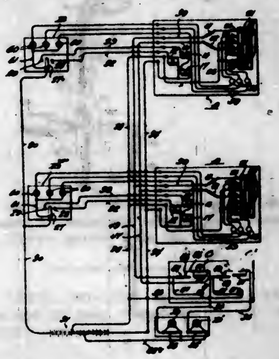
1. A front head construction for a rock drill of the hammer type, said front head provided with a bore adapted to receive a renewable bushing having a uniform bore through which the shank of the drill still is adapted to extend, said bushing being formed from a hollow cylindrical sleeve having the metal of its walls at diametrically opposite points weakened and split apart along longitudinal lines to form two substantially symmetrical sections adapted to fit together along the roughened split surfaces and remain firmly in contact when the shank of a drill steel is inserted in the said split bushing, and means for holding said split bushing in the bore of the front head, whereby the bushing affords resistance to side thrust and permits removal of a drill steel which has been upset at the end.

1,393,073. DROP-HAMMER. LOUIS GARFIELD BAYNES, Hartford, Conn., assignor to The Billings & Spencer Company, Hartford, Conn., a Corporation of Connecticut. Filed July 26, 1920. Serial No. 399,128. 6 Claims. (Cl. 78—29.)



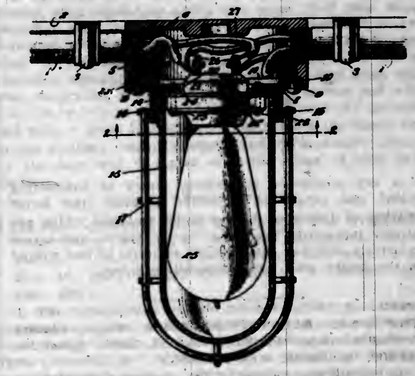
1. In a machine of the character described, the combination with a frame, an active member of a board clamp slidably mounted therein, and a toggle between said frame and active member, of an operating lever pivoted to the frame and engaged with said toggle at a point between its connections with said frame and active board clamp member.

1,393,074. ELECTRICALLY-OPERATED VOTING APPARATUS. AARON C. BOCHER, Milwaukee, Wis. Filed Dec. 18, 1918. Serial No. 267,393. 3 Claims. (Cl. 235—52.)



1. A voting apparatus comprising a main station including a plurality of indicating mechanisms each provided with a plurality of circuit closing members, a plurality of substations each including means for actuating the circuit closing members of a corresponding indicating mechanism, a plurality of circuits each including branches associated with corresponding circuit closing members, resistance units in said branches, a pair of meters differential in nature, associated with each of said circuits and calibrated to give identical readings under normal current conditions, and means for controlling current in said circuits to maintain such normal conditions.

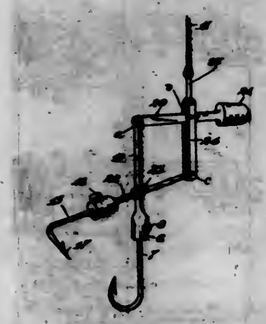
1,393,075. ELECTRIC-LIGHT FITTING. JOHN C. BOTTON and ORIS H. NICKERSON, Cleveland, Ohio, assignors to The Adapti Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 11, 1918. Serial No. 262,026. 4 Claims. (Cl. 240—11.)



1. In combination, a receptacle having an open side, and a self-contained unit applied to and closing the

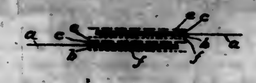
open side of the receptacle and comprising a supporting element, a lamp socket applied to the supporting element, the supporting element having a flange surrounding the lamp socket, and a guard sustained by the flange.

1,393,076. FISH-GRAPPLE. HORACE L. BRADY, Los Angeles, Calif. Filed Nov. 6, 1919. Serial No. 336,062. 1 Claim. (Cl. 43—37.)



A fish grapple comprising a supporting bar attachable at its upper end to a line and normally depending vertically, a rockable bar pivoted adjacent the upper end of said bar and having a weight on the outer end thereof, a depending shank pivoted on the outer end of the rockable bar and depending therefrom, a bait hook carried on the lower end of said shank, a bar pivoted intermediate its ends on said shank and pivoted at its lower end on the lower end of the supporting bar, and a gaff hook carried by said last named bar having a downwardly extending barb, said bars and shank forming collectively a toggle link and the weight operating to normally maintain the toggle link open and the gaff hook elevated.

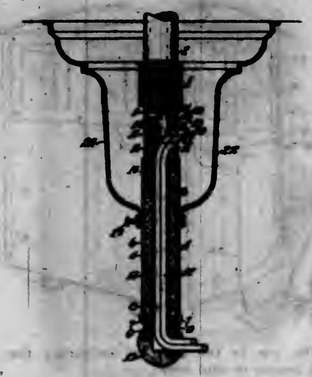
1,393,077. ELECTRICAL CONDENSER. WILLIAM C. BAINBON, Jr., Kennett Square, Pa., assignor, by mesne assignments, to Philbrin Corporation, Kennett Square, Pa., a Corporation of Delaware. Filed Oct. 8, 1918. Serial No. 257,419. 6 Claims. (Cl. 250—41.)



1. A dry condenser comprising layers of conducting material and layers of dielectric material, the latter consisting of layers of homogeneous material which are relatively inherently hard and incompressible and layers of relatively soft and compressible material of less weight than the harder and less compressible layers.

1,393,078. ELECTRIC FIXTURE. FRANK LOWELL BUTLER, Chicago, Ill. Filed Nov. 11, 1920. Serial No. 423,400. 6 Claims. (Cl. 240—85.)

1. In an electric fixture of the character described, a tubular stem having an obliquely extending opening through its wall at a spaced distance from one end thereof, and a spring guiding clip arranged in the bore of said stem for guiding through the opening a flexible



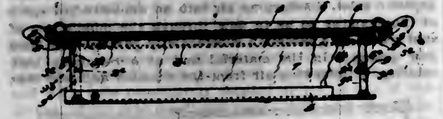
member passed through the bore from the other end of the stem.

1,393,079. ELECTRIC FIXTURE. FRANK LOWELL BUTLER, Chicago, Ill. Filed Nov. 26, 1920. Serial No. 426,495. 1 Claim. (Cl. 240—85.)



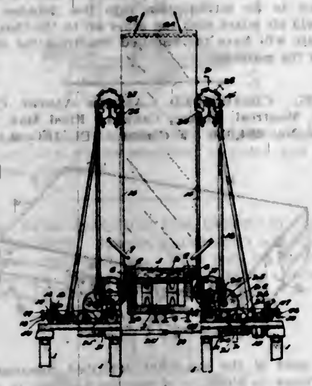
In an electric fixture, the combination of a fixed support, a tubular insulating member threaded interiorly adjacent one end, means for securing the other end of said insulating member to the fixed support, a bushing having a portion engaging the interiorly threaded portion of the insulating member, a second tubular member having one end thereof abutting against said bushing, and means connecting with said bushing and extending through said second named tubular member for maintaining the latter in adjusted position relative the bushing and for supporting any suitable electric lighting fixture arranged to depend therefrom, said last named means comprising a rod screwing into the bore of the bushing and being formed adjacent its opposite end into an open link, said link having its side members fashioned to provide shoulders adapted to abut against the adjacent end wall of said second named tubular member.

1,393,080. COLLAPSIBLE LIGHT AND RAIN SHIELD FOR VEHICLES. EUGENE B. BURTE, Chicago, Ill. Filed July 23, 1920. Serial No. 398,549. 2 Claims. (Cl. 296—66.)



1. A shield of the character described, comprising a casing member, a bar extending parallel with said casing member, non-detachable and adjustable bar supporting connections between said casing member and bar, and a curtain secured to said casing member and bar.

1,393,081. SHEET-GLASS-DRAWING MACHINE. ROBERT P. CALLARD and CLARENCE A. RHONEMUS, Charleston, W. Va., assignors to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed May 21, 1919. Serial No. 298,066. 15 Claims. (Cl. 49—17.)

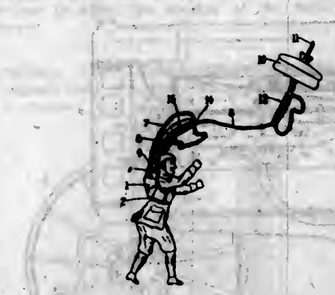


9. In a sheet glass drawing machine, the combination of a pot for molten glass having oppositely-disposed overflow portions, an endless series of sheet glass drawing devices movable vertically past said overflow portions on each side of the machine, a common drive shaft actuating each of said series of drawing devices, and a motor for driving said shaft.

13. In a continuous sheet glass drawing machine, the combination of a receptacle for molten glass having oppositely disposed overflow portions, and sheet drawing and width maintaining means, comprising an endless series of edge molding devices movable vertically past each of the overflow portions, for forming the sheet edges and holding them out laterally while simultaneously drawing the sheet upward.

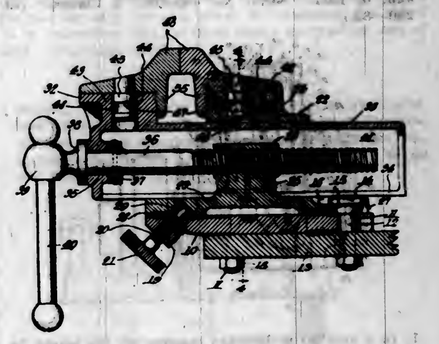
1,393,082. PARACHUTE. EVERARD RICHARD CALTHROP, London, England, assignor to E. R. Calthrop's Aerial Patents Limited, London, England. Filed Sept. 8, 1919. Serial No. 322,497. 4 Claims. (Cl. 244—21.)

1. In a parachute launching device the combination with a main or load supporting parachute and a container therefor of means for attaching said container to the aircraft a knapsack positively carried upon the person of



the aviator as auxiliary parachute nested in said knapsack and means for launching said auxiliary parachute as the aviator throws himself from the aircraft.

1,393,083. VISE. WILLIAM A. CAMPBELL, Pittsburgh, Pa. Filed Apr. 25, 1921. Serial No. 464,076. 2 Claims. (Cl. 81—32.)

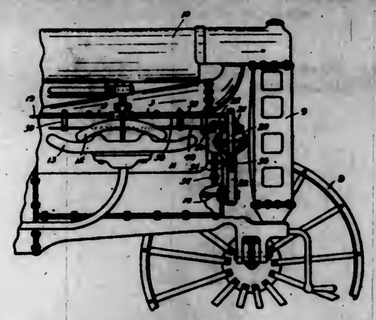


1. In a vise, a base provided near one end with a headed stud extending above the same, said base being provided near its opposite end with an inclined screw-threaded opening, extending upwardly toward the headed stud, a clamping screw engaging within the screw-threaded opening, a vise to be secured to said base, said vise comprising a base portion provided at one end with a notch to receive the headed stud and near its opposite end with a lower inclined recess to receive the upper end of the inclined clamping screw, and guide means carried by the base and engaging over the edges of said base portion.

1,393,084. CENTRIFUGAL GOVERNOR FOR FORDSON TRACTORS. GEORGE E. CANFIELD, Minneapolis, Minn., assignor to James M. Dobson, Minneapolis, Minn. Filed Feb. 13, 1920. Serial No. 358,521. 6 Claims. (Cl. 123—106.)

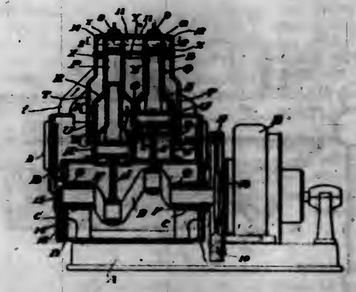
1. The combination with a tractor having an internal combustion engine, of a throttle valve for controlling the fuel supply thereto, of an upright governor shaft driven from a running part of the engine, a centrifugal governor carried by said shaft, a lever subject to said governor, a spring acting directly upon one side of said lever, a casing inclosing said shaft, said governor and said spring

pressed lever, and an operating rod connected to said throttle valve and extending into said governor casing and



provided with a connection therein to said spring pressed lever whereby said throttle valve will be automatically operated from said governor.

1,393,085. COMPRESSOR. ALLAN O. CARPENTER, Corning, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Jan. 6, 1921. Serial No. 435,479. 3 Claims. (Cl. 230—32.)



1. In a vertical multi-stage compressor, the herein described unitary cylinder construction comprising duplex differential cylinders constructed in block form in one piece, the low pressure cylinder bores of larger diameter being arranged side by side and having a cylinder wall partly in common, the high pressure cylinder portions of smaller diameter being connected to the low pressure portions by inclined walls, the said differential cylinders being provided with an integral outer casing conforming substantially to their contour and forming a water jacket for the cylinders, common inlet and common discharge chambers for the low pressure cylinder portions located at the said inclined connecting walls, and a removable head forming a closure for the high pressure cylinder ends and having common inlet and common discharge chambers for the high pressure portions of the cylinders.

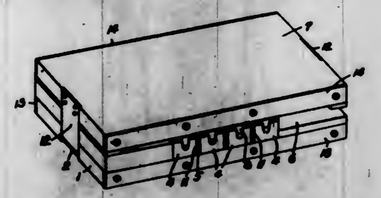
1,393,086. METHOD OF AND APPARATUS FOR DRYING, CONDITIONING, AND REGULATING THE MOISTURE CONTENT OF HYGROSCOPIC MATERIALS. WILLIS H. CARRIER, Buffalo, N. Y., assignor to Carrier Engineering Corporation, Buffalo, N. Y. Filed Mar. 27, 1917. Serial No. 157,074. 16 Claims. (Cl. 34—19.)

8. The herein described method of regulating the physical condition of materials, consisting in disposing the material in a chamber so as to leave substantially unobstructed connecting spaces in the chamber at three adjoining sides of the material, two of which sides are opposite each other and are connected by the third side, and so as to provide air flow passages through the material extending in a direction from one to the other of said opposite sides, discharging air into an unobstructed space of the chamber so as to flow through the middle one of said spaces in a direction substantially parallel with said flow passages in the material and at a relatively high velocity, withdrawing air from the chamber adjacent that



side of the material at which the air is discharged into the chamber, whereby the circulation of a relatively larger volume of other air in the chamber is induced, the incoming air mixes and circulates with the other air before flowing through the material and the circulating mixed air is caused to flow through the material, and regulating the condition of the relatively small volume of incoming air prior to its introduction into the chamber so that when said air mixes with the other air in the chamber, the mixed air will have the required condition for the treatment of the material.

1,393,087. CIGAR-MOLD. ARTHUR ALBERT CHARBONNEAU, Montreal, Quebec, Canada. Filed Mar. 8, 1920. Serial No. 364,016. 5 Claims. (Cl. 131—9.)



1. A mold of the character described comprising two half portions; a plurality of recesses provided in one portion of said mold; a plurality of suitably shaped projecting members provided on the other portion of said mold and adapted to fit in said recesses in the aforesaid portion of said mold, said projecting portion having sharp edges; and a plurality of protecting members provided adjacent said projecting members substantially as described.

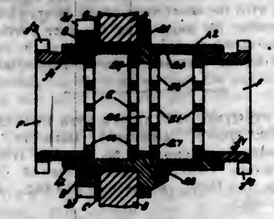
1,393,088. VEHICLE-SPRING. FELIX R. CHAUDET, St. Louis, Mo. Filed Oct. 23, 1920. Serial No. 419,022. 1 Claim. (Cl. 267—16.)



In combination with a vehicle frame, a main bowed spring connected at one end to the frame, a toggle joint

comprising a pair of toggle links hinged at one end on opposite sides of the frame member, a hinge pin connecting the opposite ends of the links, a forked toggle link comprising a sleeve or tubular cross member hinged to said pin and fork arms leading from the ends of the sleeve between the toggle links aforesaid, a hinge pin coupling the outer ends of the fork arms to the adjacent end of the main spring, and an auxiliary spring comprising two sections each having an intermediate coil wrapped about the sleeve mounted on the hinge pin of the toggle, and extensions leading from said coil in opposite directions and with ends respectively secured at the points of connection of the first mentioned toggle links with the frame, and at the points of connection of the main spring with the arms of the forked toggle link aforesaid, said auxiliary spring responding to the closing and opening movements of the toggle joint.

1,393,089. MULTIPLE-CABLE GLAND FOR BULKHEADS AND THE LIKE AND PLASTIC FILLING COMPOUND THEREFOR. JAMES HUNTER COLLIE, Birkenhead, England. Filed Jan. 13, 1919. Serial No. 270,971. 3 Claims. (Cl. 247—18.)



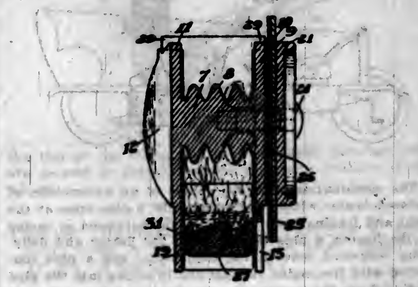
2. The device of claim 1 in which the plastic compound is composed of a fibrous absorbent material, and a fluid incorporated therewith.

1,393,090. FUEL-INJECTOR FOR INTERNAL-COMBUSTION ENGINES. SAMUEL P. COWARDIN and HARRY A. COWARDIN, Richmond, Va. Filed July 9, 1917. Serial No. 179,491. Renewed Dec. 8, 1919. Serial No. 343,742. 14 Claims. (Cl. 123—131.)



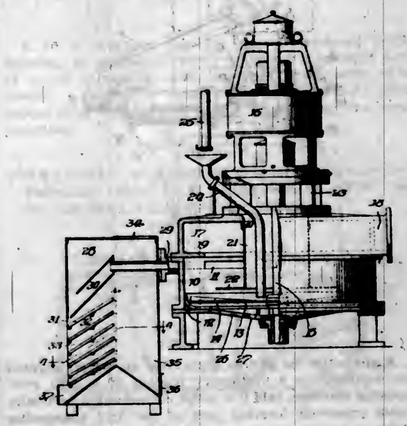
3. A fuel oil injector for internal combustion engines having oil and air chambers in which oil and air are maintained under constant equal pressures, oil and air passages supplied by said chambers, valves controlling said respective passages, movable pressure responsive elements for controlling the operations of said valves, the first of said elements being subject to the pressure in but one of said chambers and serving to operate the second element which is subject to the pressures in both chambers in effecting the opening of the valve controlled by said second element, and means for periodically operating the first element to effect the opening of the valve controlled thereby.

1,393,091. VULCANIZER. POWEL CROSLEY, Jr., Cincinnati, Ohio. Filed Mar. 22, 1920. Serial No. 367,914. 6 Claims. (Cl. 18—18.)



1. In a vulcanizer, a vulcanizing plate having a plurality of vulcanizing faces, a heat absorbing and conveying bar integrally connecting said vulcanizing faces, means for heating said bar and means for clamping the object to be vulcanized and the vulcanizing material on one of said vulcanizing faces.

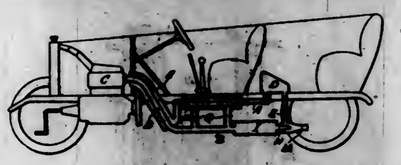
1,393,092. METHOD OF AND MEANS FOR RECLAIMING MOLDING-SAND. JAMES C. DAVIS, Hinsdale, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed May 2, 1918. Serial No. 232,114. 5 Claims. (Cl. 83—46.)



1. An apparatus for reclaiming used molding sand, including in combination, a casing, a horizontally rotatable fan therein, means for delivering the used sand to said fan near the center thereof, a horizontally disposed flange extending inwardly of said casing above said fan, said flange defining an opening of less size than the casing, the casing having an exit opening immediately beneath said flange and also an exit opening above said flange, means for driving said fan, the latter driving the sand

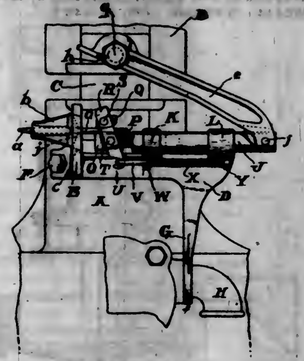
against the walls of the casing, and giving the cord an upward helical motion whereby the cord is driven against said flange and outwardly over said lower exit.

1,393,093. HEATING DEVICE FOR AUTOMOBILES. ADRIAN DENMAN-JONES, Holloway, London, England. Filed Feb. 4, 1920. Serial No. 356,162. 1 Claim. (Cl. 237—12.3.)



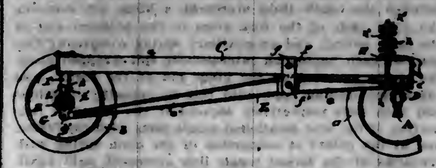
The combination with the engine of an automobile, of a closed heater within the automobile, a pipe open at the front and leading from the engine compartment or casing to the heater, a pipe leading from the heater and delivering rearward beneath the automobile, and a pipe connected with the engine exhaust and injecting into the pipe leading from the heater, the organization being such that hot air from around the engine is led through the heater without discharging into the interior of the automobile and is discharged from the heater by the injected exhaust gases entering the discharge pipe from the heater.

1,393,094. PIN-PULLER. JESSE DITSON, Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed July 6, 1920. Serial No. 394,246. 11 Claims. (Cl. 29—36.1.)



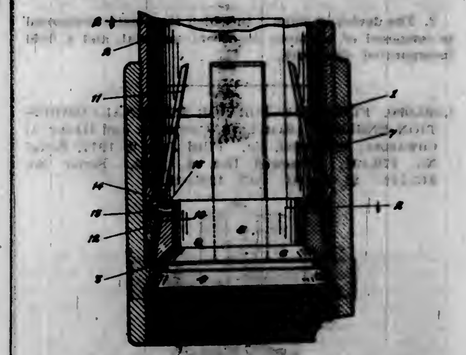
1. A pin puller for pulling a pin from an object, adapted to be mounted on a stationary portion of a drill steel sharpening machine, said pin puller comprising a vertically movable crosshead forming part of the drill sharpening machine, a stationary abutment, a jaw carrying member adapted to move toward and away from said abutment, a pin gripping jaw fixedly carried by said member, another pin gripping jaw pivotally attached to said first mentioned jaw and means connected in operative relation with said crosshead of the drill sharpener for actuating said jaw carrying member toward and away from said abutment by the movement of said crosshead, said means being adapted to be disconnected to render said pin puller inoperative.

1,393,095. COMBINED SPRING AND SPRING AND LEVER SUSPENSION FOR VEHICLES. CHARLES DRAKE, Cleveland, Ohio. Filed Aug. 17, 1920. Serial No. 115,374. 17 Claims. (Cl. 267—16.)



1. In a vehicle, a load-carrying member, a front axle, a rear axle, and a spring interposed between the load-carrying member and the front axle for supporting the front end of the load-carrying member, in combination with a pair of levers of the first class having arms of unequal length fulcrumed to the load-carrying member, the fulcrum points of said levers being forwardly of the transverse medial line of the load carrying member, with the long arms of the levers extending from their fulcrums to the rear axle and secured thereto, and resilient means coöperating with the short arms of the levers and the load-carrying member for supporting the rear portion of the load-carrying member, said rear portion of the load carrying member being otherwise without substantial support.

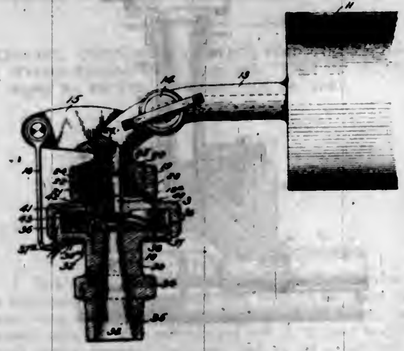
1,393,096. FISHING APPLIANCE FOR USE IN DRILLING OPERATIONS. DENNIS L. DRISCOLL, Coalinga, Calif., assignor of one-half to Bunting Iron Works, San Francisco, Calif., a Corporation of California. Filed May 22, 1920. Serial No. 383,462. 4 Claims. (Cl. 294—90.)



1. A fishing tool for the described purpose, the same comprising a ring, a plurality of relatively flat straight spring arms extending upwardly therefrom at an incline toward each other, and secured thereto at their lower ends, and a tubular shell provided on its interior with a supporting seat and formed with an interior diameter above said seat slightly greater than the exterior diameter of the ring and within which said ring and spring arms are removably positioned as a unit.

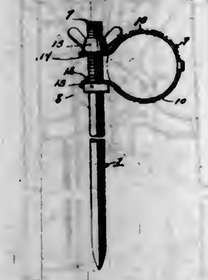
1,393,097. GREASE-CUP. WILLIAM HENRY DUPEE, Vicksburg, Miss. Filed Mar. 30, 1920. Serial No. 369,940. 14 Claims. (Cl. 184—105.)

14. In a grease cup, a body including a head and a stem, the stem having a longitudinal passageway, the head being substantially cup-shaped, a cap also substantially cup-shaped and forming with the head a valve chamber, said cap having an aperture, a valve in the chamber normally closing said aperture, the passageway communicating with the bottom of the valve chamber, said bottom having a circular series of spaced projections extending upwardly, said valve having a plurality of legs which are spread apart and engage between certain of



the spaced projections at the bottom of the valve chamber for holding the valve away from the passageway while permitting the same to move away from the aperture, said projections also preventing the valve from turning, the valve normally being seated against the under side of the cap.

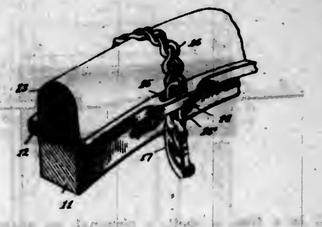
1,393,098. NOZZLE-HOLDER. JOSEPH EASTMAN, Manitowoc, Wis. Filed Nov. 8, 1920. Serial No. 422,484. 2 Claims. (Cl. 248—20.)



2. An article of the class described comprising a spindle, having one end pointed and the opposite end threaded, a circular skeleton clip body adapted to surround a nozzle, the clip body having apertured feet extending therefrom through which the threaded end of the spindle projects, a shoulder carried by the spindle for engagement with one of the feet, and a nut in threaded union with the spindle for engagement with the other foot, whereby the clip may be predeterminately contracted.

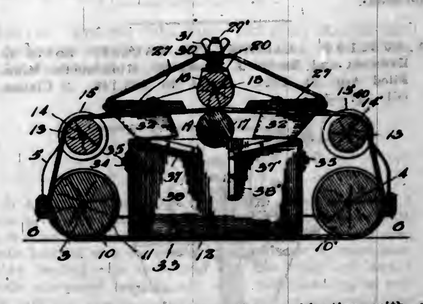
1,393,099. ATTACHING MEANS FOR ANTISKIDDING CHAINS. GEORGE H. EBERT and EARNEST R. EBERT, Burlington, Iowa. Filed Nov. 18, 1920. Serial No. 424,997. 3 Claims. (Cl. 152—2.)

1. An anti-skid device comprising a chain adapted to be engaged transversely across the tire, and coöperating securing means on the chain and rim of the wheel constructed to automatically loosen and tighten the chains upon the tire as the chains approach the ground and their uppermost position, respectively, said coöperating securing means embodying terminal links which are long and straight, and openings formed radially through



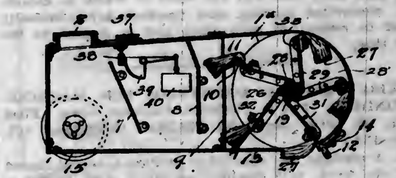
the rim of the wheel and in which said terminal links are secured to permit endwise movement radially of the wheel.

1,393,100. MOPPING-MACHINE. FRANKLIN A. ESPELAND, Oakes, N. D. Filed Sept. 18, 1920. Serial No. 411,101. 5 Claims. (Cl. 15—14.)



1. In a mopping machine the combination with a housing, an endless mopping belt and a wringer device, of a pair of troughs above said belt at the sides of said device, a reservoir beneath the device, and delivery spouts from said troughs to said reservoir for the purpose described.

1,393,101. SCRUBBING-MACHINE. FRANKLIN A. ESPELAND, Oakes, N. D. Filed Oct. 29, 1920. Serial No. 420,345. 1 Claim. (Cl. 15—14.)



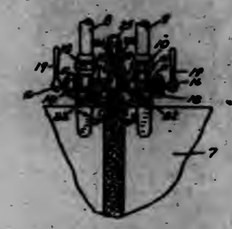
The combination in a scrubbing machine of a casing having an open top end wall and a ledge thereon, a partition adjacent to said wall extending from the top of the casing and terminating near the botttom thereof, a section attached to said casing having an open bottom, a rotor journaled in said section forming a series of buckets, a wiper attached at the free edge of each bucket adapted to flop over said ledge and pass through said open bottom, and means for revolving the rotor.

1,393,102. PIPE-TERMINAL-ATTACHING APPARATUS. ALVAH L. HARRIS, Chicago, Ill. Filed May 16, 1919. Serial No. 296,446. 12 Claims. (Cl. 269—242.)



1. In a fuse, a shell, a terminal, an anchoring member, and means for clamping the anchoring member upon the shell; said terminal having longitudinally presented abutments, a cylindrical portion between said abutments, and a non-cylindrical portion; and said anchoring member comprising a portion adapted to embrace the non-cylindrical portion of the terminal to resist rotation of the latter, and members movable into and out of embrace with the cylindrical portion and between said abutments, and thereby resisting longitudinal movement of the terminal.

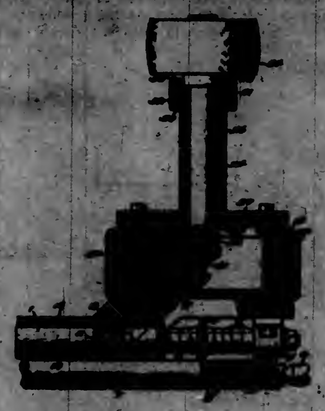
1,393,105. LAUNDRY-TUB FAUCET. EDWIN G. EVENSEN and HENRY J. ARNEMANN, Minneapolis, Minn. Filed Apr. 21, 1921. Serial No. 463,140. 3 Claims. (Cl. 277—18.)



1. A faucet structure comprising a body tube with hot and cold water pipe connections and coöperating valves at its ends, a swinging nozzle connected to the intermediate portion of said body tube, and a tub engaging clamp made up of two brackets one of which is integral with said body tube and the other of which is detachably connected thereto, said brackets being laterally off-set in respect to each other and in respect to the body tube.

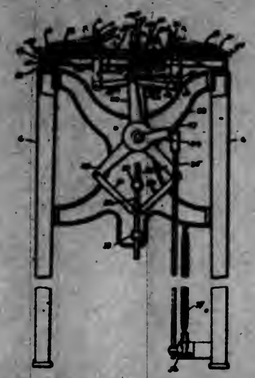
1,393,104. DRIVING MECHANISM FOR MACHINE-SPINDLES. FAY O. FARWELL, Dubuque, Iowa. Filed Jan. 23, 1919. Serial No. 272,743. 15 Claims. (Cl. 10—154.)

15. A machine tool adapted to produce a helical thread upon the work, said machine having a work holder, a tool spindle, a spindle gear on said spindle, a driving gear, two intermediate shafts having gears at both ends, the gears at one end engaging opposite sides of the spindle gear and the gears at the opposite ends engaging the opposite sides of the driving gear, a unitary structure forming a bearing for all of said gears and for the spindle, said structure being adapted to prevent lateral movement of the spindle but permit lateral movement of one of the other gears mentioned for equalizing the torque applied to the two different sides of the spindle gear, and a bearing for said unitary structure adapted to permit the latter to vary the angle of the tool relatively to the



axis of the shaft to thereby vary the helical angle of the thread produced upon the work.

1,393,103. SOLE-MARKING MACHINE. MARK E. FERNALD, Saugus, Mass. Filed Oct. 8, 1915. Serial No. 54,871. 19 Claims. (Cl. 33—189.)



1. A sole marking machine, having, in combination, a support for the sole; and a forepart marker, a heelpart marker, and a shank marker for marking the location of the sole tacks on the sole; and means governed by the sole for shifting the shank marker into different positions for right and left soles, substantially as described.

1,393,106. SOUND-REPRODUCER FOR PHONOGRAPHS. JOHN W. FOSDICK, San Francisco, Calif. Filed Apr. 8, 1920. Serial No. 372,280. 2 Claims. (Cl. 274—35.)



1. A sound reproducer for phonographs comprising a sound box, a diaphragm connected thereto, a pair of lugs carried by the box, an arm pivotally connected to the said lugs and connected to the center of the diaphragm at its other end, a needle carrying arm pivotally mounted in said lugs, a strut between one end of the needle carrying arm and the diaphragm arm and a screw for adjusting the position of the needle carrying arm and diaphragm to vary the sound produced.

1,393,107. CONNECTING DEVICE FOR WIRES. JESSE WATSON FULLER, Little Rock, Ark. Filed Feb. 3, 1921. Serial No. 442,122. 2 Claims. (Cl. 24—136.)



1. In a device of the class described, the combination of a sheet-metal casing provided with teeth on its inner face and being split longitudinally throughout its length, said casing provided with an enlarged slot in its split portion, said casing tapering from one end to its other end, a wedge provided with teeth and with a lug on one side in said casing, and said lug extending into the slot and through the casing, substantially as shown and described.

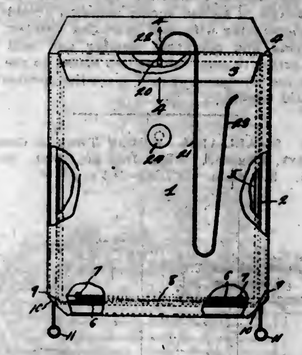
1,393,108. DAYLIGHT X-RAY-FILM-DEVELOPING TANK. JOHN B. GARRETT, Troy, N. Y. Filed Aug. 24, 1920. Serial No. 405,739. 5 Claims. (Cl. 95—90.)



1. A developing tank comprising a developing compartment, means for supporting a film container above said compartment and means extending downwardly and upwardly in said compartment and adapted to be connected with the film within the film container by means of which the film may be pulled from the film container into the developing compartment.

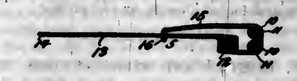
1,393,109. FILM-ENVELOP. JOHN B. GARRETT, Troy, N. Y. Filed Aug. 24, 1920. Serial No. 405,740. 6 Claims. (Cl. 95—66.)

1. A film container comprising an envelop adapted to receive a film, crossed envelop severing members disposed in the lower end of the envelop and having their ends connected to a film, said severing members having their



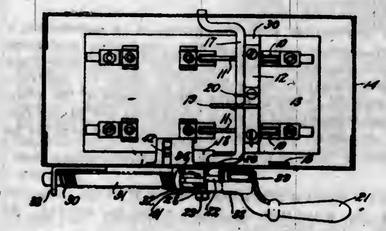
other ends extending through the envelop and provided with attaching means.

1,393,110. SPRING FOR PIN-SETTING MACHINES. JACOB GESSERT, Buffalo, N. Y. Filed Aug. 4, 1919. Serial No. 315,118. 2 Claims. (Cl. 267—1.)



2. A spring constructed from wire and comprising a base having two attaching eyes which are connected with each other, a coil connected with one of said eyes, a long main bearing arm connected with said coil, a short auxiliary bearing arm connected with the other eye and a guide interposed between said arms and operating to permit said long arm to move independently of said short arm during the first part of the stressing movement of said long arm but compelling said short arm to move with said long arm during the last part of the stressing movement of the latter.

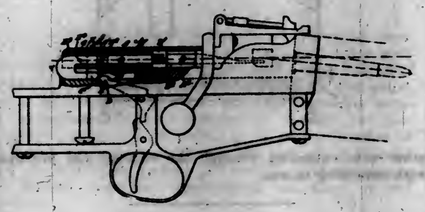
1,393,111. INCLOSED-SWITCH CONSTRUCTION. BENJAMIN E. GETCHELL, Plainville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a Corporation of Connecticut. Filed Aug. 16, 1919. Serial No. 317,879. 7 Claims. (Cl. 200—67.)



1. In an inclosed switch, a switch box, a base mounted in said box, a plurality of stationary contacts mounted on said base, a plurality of movable switch blades for coöperation with said stationary contacts, a crankshaft mounted in said box and having a lost motion connection with the movable switch blades, a spring inside said box for con-

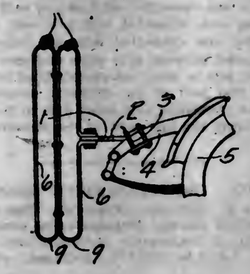
meeting said crank and said movable switch blades, a handle mounted outside of said box, an operating member having a lost motion connection between said handle and said crankshaft, a second spring mounted outside of said box and coöperating with said operating member, said external spring and operating member and said interior spring co-acting to snap said switch blades to the off position when the movement of said operating member is initiated by said handle.

1,393,112. SMALL-ARM. PHILIP THOMAS GODSAL, Ingcoyd Park, England. Filed July 30, 1920. Serial No. 400,044. 3 Claims. (Cl. 42—16.)



1. In a block bolt action, the combination of a carrier, a striker formed in two parts screwed together and working in the carrier and a detachable plug fitting the rear of the carrier and locked therein by the striker.

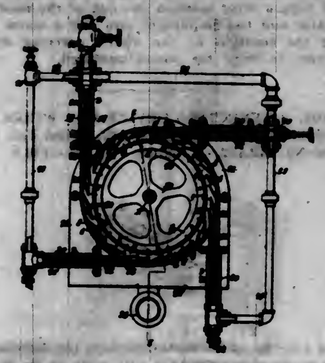
1,393,113. BUMPER AND TIRE-CARRIER. DANIEL B. GOSS, Cuyahoga Falls, Ohio. Filed Aug. 4, 1921. Serial No. 489,796. 2 Claims. (Cl. 293—55.)



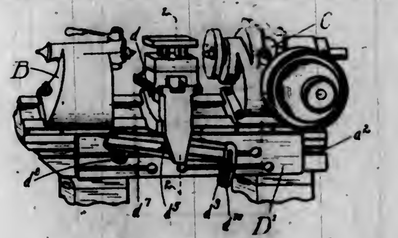
2. In combination with the springs of an automobile, a combined bumper and tire carrier, comprising horizontal arms with clamps for securing to the springs, said arms being bent inwardly on a horizontal plane as required; looped vertical elements at the opposite ends of the arms, said loops being hinged at their lower ends and having fastenings at their upper end, and being thus adapted to hold spare tires.

1,393,114. STEAM-TURBINE. JOHN F. GEBY, New Orleans, La. Filed Mar. 29, 1921. Serial No. 456,716. 29 Claims. (Cl. 253—45.)

1. In a rotary motor, a rotary drum having peripheral steam channels separated from one another by longitudinal partitions having passage ways through the same from one channel to the next adjacent channel, tangentially located blades in said channels and spaced with their inner edges free from the bottom of the channels to leave annular steam passage ways between the bottom of the channels and the blades, means to introduce steam into one of said channels, said blades being all arranged to direct the steam around the drum in one continuous direction, and a housing for the drum having provisions for the passage of exhaust fluid.



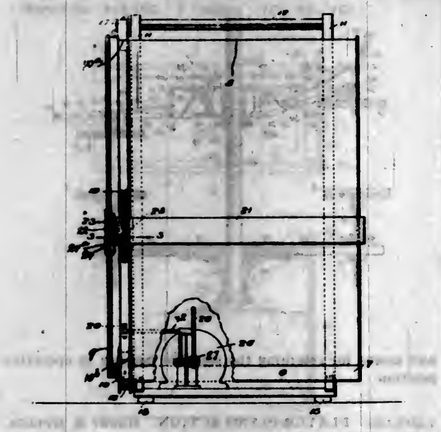
1,393,115. TURNING AND FACING LATHE. WILLIAM F. GROSSE, Cincinnati, Ohio, assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 1, 1920. Serial No. 362,227. 6 Claims. (Cl. 82—2.)



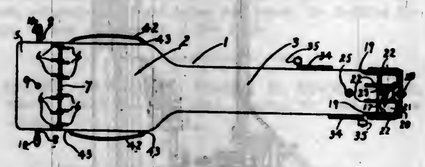
1. In a lathe the combination of a lathe bed having three sets of longitudinal ways, a carriage mounted in one of the ways, a turning tool support mounted upon the carriage, a facing tool carriage mounted in a second one of the ways and having in it transverse ways, a facing tool support mounted in the transverse ways, means for imparting longitudinal movement to the first mentioned carriage and means for imparting transverse movement to the facing tool comprising a carriage mounted in a third one of the ways, means for reciprocating said last mentioned carriage upon the lathe bed, an angularly adjustable slide mounted upon the last mentioned carriage, a shoe mounted upon the slide and means for transmitting the vertical movement of the shoe into a transverse movement of the facing tool support.

1,393,116. TYPIST'S COPY-STAND. CHARLES F. GUTHRIDGE, Los Angeles, Calif. Filed Jan. 28, 1920. Serial No. 354,721. 5 Claims. (Cl. 120—34.)

3. In a copy-holder, a table to support material to be copied, having a supporting shoulder at one end, a plurality of rollers carried by the table, one of which rollers is positioned adjacent said supporting shoulder, and an endless conveyer mounted on said rollers, a guide element slidably mounted adjacent said table for movement longitudinally of the table, and means carried by the guide element to engage the endless conveyer, said shoulder serving as a rest for copying material and also to limit the movement of the guide element in one direction when automatically disengaged from the endless conveyer by passing beyond engaging limit of the conveyer over one of the rollers.



1,393,117. AMUSEMENT DEVICE. HERBERT HALFPENNY, Brantford, Ontario, Canada. Filed Feb. 7, 1921. Serial No. 443,193. 4 Claims. (Cl. 9—18.)

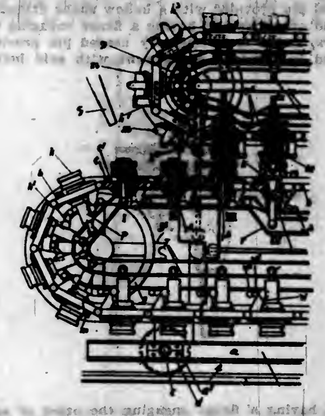


1. An amusement device comprising, a buoyant main plane adapted to support the operator in the prone position, propelling means carried at the rear end thereof and adapted to be operated by the feet of the operator, steering means suitably mounted at the rear end of the device, a diving plane transversely hinged to the front end of the main plane and extending longitudinally forward therefrom, a transversely disposed operating bar pivoted centrally of its length to the diving plane, handles at the ends of said bar, connections between said bar and the steering means at the rear for operating said steering means as the bar is rotated about its pivot point, said bar adapted to incline the diving plane with respect to the main place when the handles are depressed.

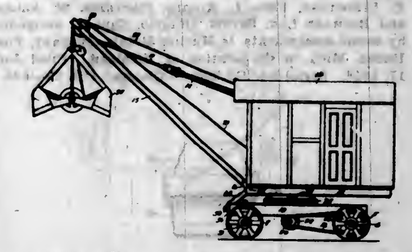
1,393,118. MANUFACTURE OF GLASS ARTICLES. ROBERT FREDERICK HALL, Birmingham, England. Filed Jan. 15, 1919. Serial No. 271,223. 10 Claims. (Cl. 49—10.)

1. A machine for the manufacture of blown glass articles comprising two endless carriers, one above the other and arranged to move in opposite directions, one of said carriers having a series of blowing heads and associated parts and the other carrier having a series of coöperating molds.

7. A machine for the manufacture of glass articles comprising a supporting frame, an upper and a lower elongated endless carrier supported in the frame and parallel to each other, said carriers having their opposite faces in proximity to each other during a portion of the travel, means for concomitantly moving said carriers in opposite directions whereby the opposed faces move together throughout a portion of their travel, a series of molding devices on the lower carrier comprising parison and finishing molds, a series of upper mold sections on the upper carrier and adapted to coöperate with the finishing and parison molds, and automatic means for operating the parison molds and upper mold sections for forming glass articles during the portion of travel when the finishing and upper mold sections are moved together in opposed relation.



1,393,119. STEERING MECHANISM FOR SELF-PROPELLED CRANE-TRUCKS. HOLLIS H. HARRIS, Lorain, Ohio, assignor to The Thew Shovel Company, Lorain, Ohio, a Corporation of Ohio. Filed Mar. 14, 1919. Serial No. 282,551. 6 Claims. (Cl. 180—80.)



1. A truck frame having steering wheels mounted on individual steering knuckles, means connected with the steering knuckles, an operating lever connected with said means, a superstructure carried by the frame and adapted to turn thereon, and means connecting the lever to the superstructure through a lost motion connection to turn the wheels consequent upon the turning of the superstructure.

1,393,120. DENTAL ENGINE. GEORGE D. HECK, Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 11, 1920. Serial No. 365,000. 6 Claims. (Cl. 32—22.)

6. In a dental engine, the combination with a supporting head having a notched bearing lug provided with an aperture, an oscillatable tool-carrying arm having de-

pending ears embracing said bearing lug, and having apertures alined with the aperture in said lug, said ears being joined forwardly to form a pocket whose forward wall is provided with an opening, a pulley rotatably mounted on said arm, carrying a belt, a pintle extended through the apertures in said lug and ears, and projecting laterally beyond the limits of said belt, and comprising a headed pin provided with a hollow shank extending through said apertures and having a flange engaging one of said ears, and a complementary headed pin provided with a stud in threaded engagement with said hollow



shank, and having a flange engaging the other of said ears, a detent engaged in said pocket and having its opposite ends extended substantially normal to its intermediate portion with one of its projecting ends extended through said opening, and the other directed toward the periphery of said head, a spring tending to engage said detent with a notch in the periphery of said head, a detachable plate disposed in said pocket and arranged to retain said detent in its operative position, and a screw engaging said plate in said pocket and arranged to engage a notch on said head.

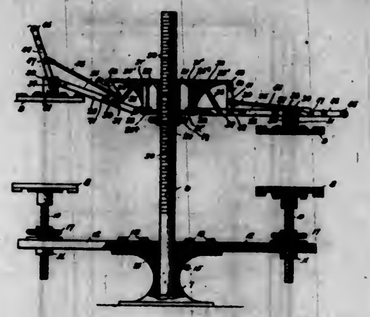
1,393,121. BLANK FOR AND METHOD OF MAKING FUSE-BODIES. CARL G. HEIDT, JOHN BURKAM, DAVID E. LINDQUIST, FRED L. RIGGIN, EBENEZER W. ALLEN, and RICHARD LAU, Sarnia, Ontario, Canada, assignors, by mesne assignments, to Mueller Metals Company, Port Huron, Mich., a Corporation of Michigan. Filed Jan. 17, 1918. Serial No. 212,226. 5 Claims. (Cl. 29—148.)



1. As a new article of manufacture, a blank for fuse bodies and the like having between its ends a chucking surface which is adapted to be machined off or finished after the blank has been subjected to other finishing operations.

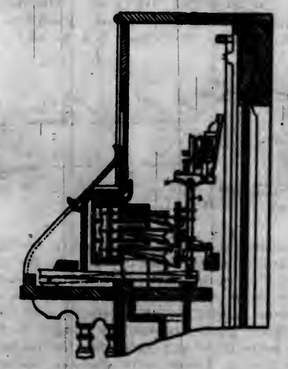
1,393,122. MACHINE FOR SEALING BOXES. BERG HEINRICHS, Anderson, Ind., assignor to Mid-West Box Company, Anderson, Ind., a Corporation of Indiana. Filed Oct. 6, 1920. Serial No. 415,077. 9 Claims. (Cl. 93—36.)

1. In a box sealing machine, the combination of a pair of coacting press members, a support, a connection between one of the press members and said support which permits said member to move vertically and laterally relatively to the other member to provide free access thereto,



and means for retaining the movable member in operative position.

1,393,123. PLAYER-PIANO ACTION. HENRY R. HELLER, New York, N. Y., assignor, by mesne assignments, to Auto Pneumatic Action Co., a Corporation of New York. Filed Oct. 23, 1919. Serial No. 332,637. 1 Claim. (Cl. 84—68.)

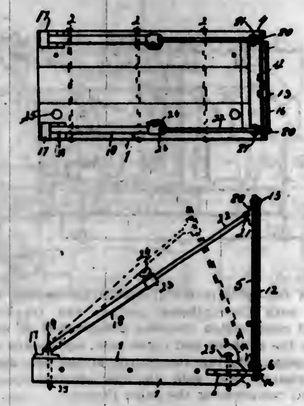


In a player piano having a self-contained piano and player action, projections and stops upon the abstracts of said piano action and projections from the pneumatics of said player action adapted to travel in the path of said first mentioned projections for operating said piano action directly and pneumatically, each of said abstract projections having a longitudinal passage for a screw adapted to secure the same to said abstract and a transverse passage for another screw adapted to penetrate said first mentioned screw and for regulating the position of the stop of said projection with reference to said pneumatic projection.

1,393,124. NON-INFLAMMABLE VOLATILE LIQUID. ALBERT HENNING, Leytonstone, London, England. Filed Aug. 9, 1920. Serial No. 402,313. 2 Claims. (Cl. 23—5.)

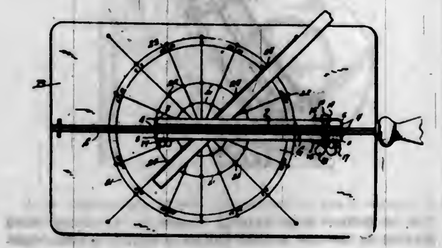
1. A liquid comprising a mixture of ethyl chlorid and methyl chlorid with double the quantity of methyl bromid.

1,393,125. ADJUSTABLE TEMPLET-FORM HOLDER FOR SELF-CENTERING TEMPLET-HOLDERS. JOHN D. HENON, Philadelphia, Pa. Filed Dec. 22, 1919. Serial No. 346,762. 2 Claims. (Cl. 33—180.)



1. In a device of the character described, a base, means for securing said base to a floor, said base having one of its ends beveled from each face to a point intermediate said faces to provide clearance, strips secured to the sides of the base at the beveled end and projecting beyond said end, an adjustable member hinged between said strips and adapted to move about the beveled end, tubes pivoted to the base, rods pivoted to the adjustable member, said rods telescoping in said tubes and means for holding the rods in any adjustment in the tubes.

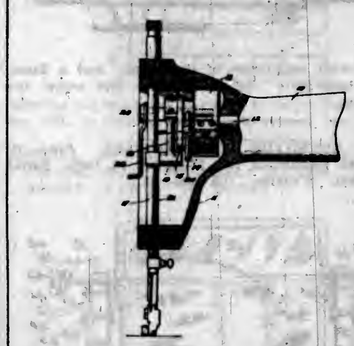
1,393,126. SAW-GAGE. FRANCIS E. HINDS, Lansing, Kans. Filed Feb. 12, 1921. Serial No. 444,542. 4 Claims. (Cl. 143—90.)



1. A saw gage comprising a base, guide members extending upwardly from the base and in transverse alinement, said members being in duplicate, each of said members being substantially in the form of an inverted U, said guide members being provided with vertically directed loops open at their upper ends, and means coacting with the upper portions of the guide members for moving the same one relative to the other in a transverse direction.

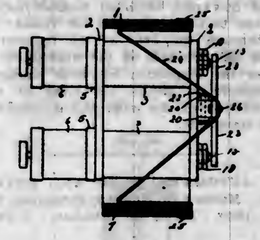
1,393,127. SEWING-MACHINE TAKE-UP MECHANISM. RICHARD K. HOHMANN, Peru, Ind., assignor to Hohmann Sewing Machine Company, Peru, Ind. Filed Aug. 25, 1919. Serial No. 319,723. 1 Claim. (Cl. 112—241.)

In a family sewing machine having a frame with a hollow head, a main shaft, a needle bar reciprocable in two bearings in the head a rock shaft disposed parallel to the main shaft in rear of the needle bar, a crank pin on the main shaft at the right of the needle bar, a straight actuating arm movable with the rock shaft, a block rotatably mounted on said crank pin having a bore offset from, and transverse to, the crank pin axis, said arm slidably fitted in said bore, a take-up arm secured to the rock shaft projecting in front of the



head and at the left of the needle bar, an arm carried by said pin disposed tangentially to a circle about the axis of said shaft, a second crank pin carried by said arm eccentrically to the axis of the main shaft and substantially 90° from the first pin, and a link connecting the latter crank pin and needle bar, said link movable in a vertical plane between the actuating arm and needle bar.

1,393,128. AUTOMATIC LUBRICATING SHACKLE-BOLT. SAMUEL HOUGH and WILLIAM LOHR, Philadelphia, Pa. Filed Jan. 15, 1920. Serial No. 351,566. 1 Claim. (Cl. 267—54.)

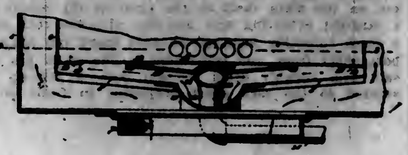


In combination with a spring, including shackles connecting sections of said spring, a lever pivoted to one of the links of said shackle, a spring toggle connecting the sections of the spring with said lever in such manner as to actuate the latter when the sections of the spring move to and from each other, a shackle bolt, a spring actuated plunger rod fitted to said shackle bolt, said rod being adapted to be actuated in one direction by the lever, and a grease cup for automatically feeding grease to the interior of the bolt.

1,393,129. STOVE AND RANGE. ERNEST O. HOWLE, Nashville, Tenn., and JOSEPH E. LEONARD, Cedar Rapids, Iowa. Filed July 8, 1920. Serial No. 393,929. 4 Claims. (Cl. 126—36.)

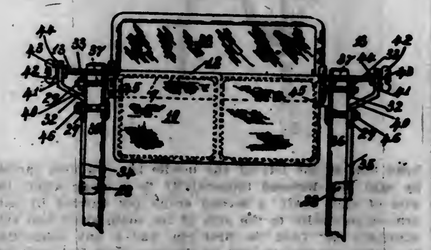
4. An oven for ranges, comprising an outer and an inner chamber, spaced apart for the passage of products of combustion the inner chamber having a double bottom,

of which the lower has a middle trough or depression, with sides upwardly inclining therefrom, a tubular gas-



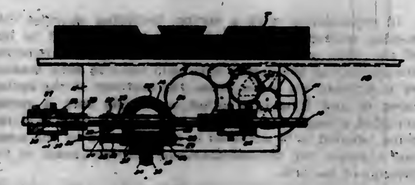
burner mounted lengthwise of the trough, and a flame-spreading baffle-plate over the burner and below the upper bottom.

1,393,130. SUNSHADE FOR VEHICLES. JOHN P. HUMPHREY, Springfield, Ill. Filed Dec. 24, 1920. Serial No. 432,964. 1 Claim. (Cl. 296—95.)



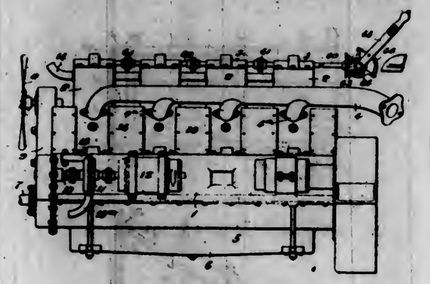
A sun shade usable in conjunction with wind shield standards and a wind shield supported thereon, comprising a fabric-covered visor frame having at each end a laterally extended bolt-end in line with the upper edge of the visor frame; right and left brackets each having ears, lateral extensions, holes to receive bolts for connecting the brackets with the respective wind-shield standards, and an outwardly, upwardly and forwardly inclined and upwardly extended member having an eye to receive one bolt-end of the visor frame; strap bolts extending through the eyes of the respective brackets and securing said brackets on the wind-shield standards; and nuts on the respective bolt-ends engaging the respective brackets to secure the visor at variable inclinations relative to the wind shield supported on the wind shield standards.

1,393,131. AUTOMATIC FEED AND REVERSE FOR LATHES. MONROE G. HUSTED, Bridgeton, N. J. Filed Sept. 17, 1920. Serial No. 410,948. 7 Claims. (Cl. 82—21.)



1. A device of the class described, comprising a stationary rack, a movable housing, a train of gears mounted in said housing and meshing with said rack, a pair of shiftable gears, telescoping members, a spring interposed between said members, and means for compressing said spring to cause said telescoping members to shift the movable gears.

1,393,132. INTERNAL-COMBUSTION ENGINE. JOS HUTCHINSON, Brooklyn, N. Y. Filed Mar. 21, 1919. Serial No. 283,466. 22 Claims. (Cl. 123—74.)



1. In a two-cycle internal combustion engine, the combination with the cylinder, piston, and crank-case, of an initial compression chamber independent of and separate from the cylinder and crank-case, and means operated by said piston during its return stroke for drawing a gaseous charge into said chamber during its working stroke and compressing the same therein.

1,393,133. SCRUBBING-MACHINE. LEON JASSEN, Chicago, Ill. Filed Oct. 6, 1919. Serial No. 328,674. 5 Claims. (Cl. 15—51.)

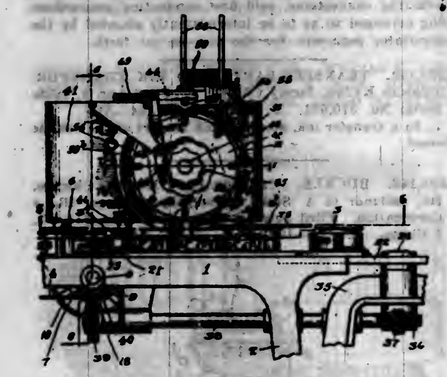


1. A hollow fluid holding handle, a scrubbing head pivoted on one end of said handle, a flexible conduit operatively connecting the interior of said handle and head, manually operated means for permitting fluid to drain out of the handle, and means operated by a hand grip projecting from the opposite end of the handle for returning the fluid through said flexible conduit to the handle.

1,393,134. APPARATUS FOR TRUING CAN-BODIES AND POSITIONING ENDS THEREUPON. AXEL JOHNSON, Oakland, Calif., assignor to American Can Company, San Francisco, Calif., a Corporation of New Jersey. Filed Mar. 20, 1917. Serial No. 156,746. 33 Claims. (Cl. 113—27.)

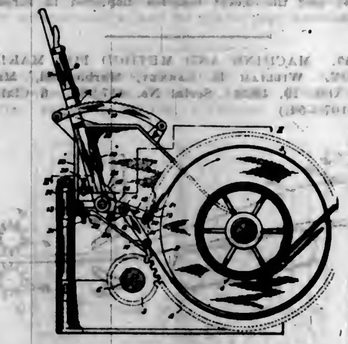
1. In a machine for the described purpose, a holder adapted to contain a stack of inverted can ends, a device co-acting with said holder for cutting out the lowermost end of the stack of ends contained therein, continuously

moving conveying means for removing the cut out end, reversing the position thereof and applying the same



to the open end of a positioned can body, and means for truing and clamping said can body in position to receive the can end.

1,393,135. DIFFERENTIAL BRAKE. HOWARD F. JOHNSON, Cleveland, Ohio, assignor to The Browning Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 7, 1919. Serial No. 336,454. 5 Claims. (Cl. 188—82.)

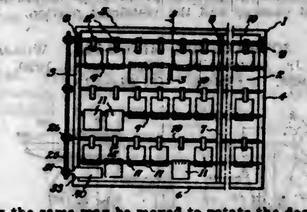


1. A differential brake, comprising a brake drum; a brake band; and means for tightening and releasing said brake band automatically, including a pivotally supported member, a link pivotally secured to said member and pivotally secured to one end of said brake band, and a second link pivotally secured to the other end of said brake band and pivotally secured to said first link intermediately of the two pivotal connections of the latter.

1,393,136. MUSTER-CHECK BOARD. ROSAMOND L. JOHNSON, Port Orchard, Wash. Filed Nov. 19, 1918. Serial No. 263,227. 3 Claims. (Cl. 40—67.)

1. A muster check board of the character described, comprising a frame, a plurality of horizontal rods mounted in said frame, a plurality of checks spaced apart and pivotally suspended by their upper ends from each alternate rod, latch dogs mounted on alternate rods above each check to engage and retain the ends of the checks when the latter are swung upwardly to inverted position,

a lever fixed to each of the dog supporting rods, a rod connecting all of said levers and a handle on said rod



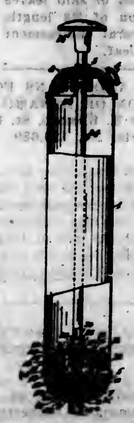
whereby the same may be moved to rotate the dog supporting rods to actuate the dogs to release the checks.

1,393,137. BEDCLOTHES-CLAMP. LOUISE T. KERNE, Corning, Calif. Filed Jan. 24, 1921. Serial No. 439,490. 1 Claim. (Cl. 5—22.)



A bed-clothes clamp comprising a bar, arms having their corresponding extremities permanently secured to the bar at spaced points and curved to substantially C-shape in parallel planes perpendicular to the bar, bosses formed at the ends of the arms opposite those secured to the bar, and tension screws threaded through the bosses and directed approximately toward the bar.

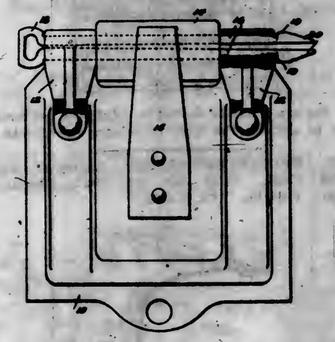
1,393,138. PUMP. JOHN M. KELLEY, Rochester, N. Y. Original application filed Apr. 8, 1918, Serial No. 227,368. Divided and this application filed Aug. 30, 1918. Serial No. 252,108. 7 Claims. (Cl. 299—94.)



1. A pump comprising a cylinder provided with a discharge passage having a restricted portion, a piston

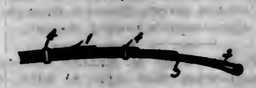
operating in said cylinder, means for closing the discharge passage, and an air compression chamber leading from said discharge passage between the closed portion of the said passage and the restricted portion.

1,393,139. JOURNAL-BOX HINGE-PIN. WILLIAM F. KIESEL, Jr., Altoona, Pa. Filed Aug. 16, 1920. Serial No. 403,928. 5 Claims. (Cl. 64—23.)



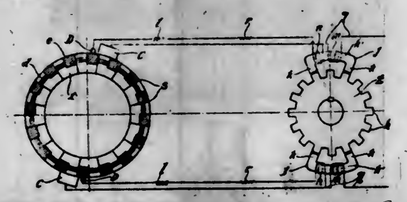
5. The combination with a journal box and lid therefor having alined cylindrical openings, of a hinge pin for pivotally securing the lid to the box, said pin comprising a cylindrical bar split longitudinally to form two spaced resilient arms integrally connected at one end, said arms being arranged in said openings and having their outer surfaces yieldingly engaging said walls, each of said arms at its free end being provided with a shoulder and a head on the opposite end of said pin, said head and shoulders serving to restrict longitudinal movement of said pin in said openings.

1,393,140. SHOCK-ABSORBING SPRING. JOHN Y. KING, Lansdowne, Pa. Filed Apr. 10, 1920. Serial No. 372,785. 4 Claims. (Cl. 267—45.)



1. A semi-elliptic leaf spring comprising a plurality of leaves, the lowermost of said leaves spaced from the adjacent leaf a portion of its length, said leaf being provided with an integral enlargement bearing directly against said adjacent leaf.

1,393,141. METHOD AND MEANS FOR IMPROVING THE COMMUTATION OF DYNAMO-ELECTRIC MACHINES. JAROSLAW K. KOSTKO, St. Louis, Mo. Filed Sept. 18, 1916. Serial No. 120,689. 5 Claims. (Cl. 171—228.)



4. In a dynamo-electric machine, an armature having armature coils, a commutator connected to said armature coils, sets of brushes bearing on said commutator, a conducting connection between certain of said brushes, and a conducting connection between certain of said brushes and in inductive relation with said first conducting connection, and resistances and reactances in one of said conducting connections, said first conducting connections being arranged so as to be intermittently shunted by the commutator segments, for the purpose set forth.

1,393,142. TRANSFER-PAPER AND INK THEREFOR. HERMAN KRUSE, Jersey City, N. J. Filed Apr. 1, 1920. Serial No. 370,531. 5 Claims. (Cl. 134—31.)

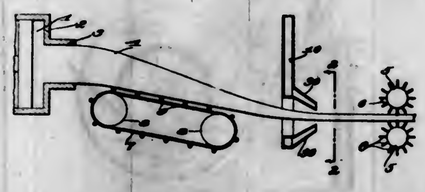
1. In a transfer ink, stearin pitch as part of the vehicle thereof.

1,393,143. BUCKLE. CHARLES PAUL KUHRN, Chicago, Ill., assignor to A. Stein & Company, Chicago, Ill., a Corporation. Filed July 18, 1919. Serial No. 311,852. 1 Claim. (Cl. 24—191.)



A buckle of the character described, comprising the combination with a body portion, of a clamp lever having a transverse slot, the metal removed in forming said slot being divided to form separate tongues and being pressed backward from the face of the clamp lever, and a depending flexible pad having its upper portion arranged against the back of said clamp lever and held between said slot and the metal tongues displaced in forming said slot.

1,393,144. MACHINE AND METHOD FOR MAKING CANDY. WILLIAM B. LASSEY, Marblehead, Mass. Filed Oct. 19, 1920. Serial No. 417,986. 6 Claims. (Cl. 107—54.)



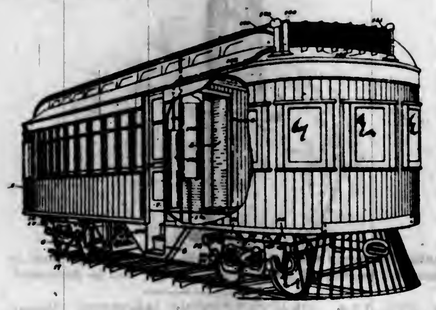
1. The method of forming candy which consists in pulling down warm pulled candy and stopping the reduction in size by chilling it.

1,393,145. BOBBIN-HOLDER FOR SHUTTLES. SAUL R. LIBERTY, Pawtucket, R. I., assignor to The Liberty Company, Pawtucket, R. I. Filed Dec. 9, 1920. Serial No. 429,883. 6 Claims. (Cl. 139—27.)



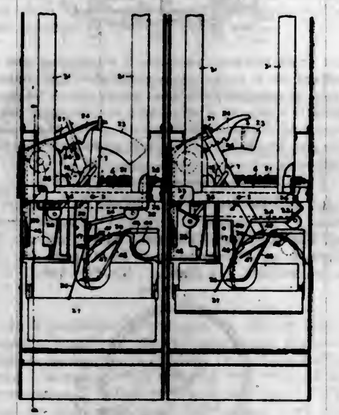
1. A shuttle having a bobbin recess, a spindle pivoted at one end therein, a U-shaped member secured about the pivoted end of the spindle with its arms extending alongside the latter above and below the same to form upper and lower bobbin gripping arms, and fixed means between the arms for separating the arms by and during movement of the spindle from the recess.

1,393,146. RAILWAY MOTOR-CAR. WILLARD C. LIPE, Syracuse, N. Y., and LAURENCE H. KIRK, Havre de Grace, Md. Filed Apr. 15, 1916. Serial No. 91,391. 66 Claims. (Cl. 105—62.)



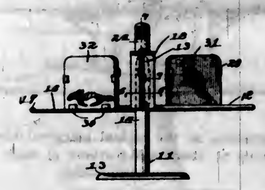
1. In a motor car, the combination of a car body, a truck supporting the body and movable about a vertical axis relatively thereto, a multicylinder engine extending lengthwise of the body, and a change speed gearing connected between the engine and a wheel of the truck, and including a portion carried by the body in line with the engine, and a vertical portion connected to a wheel of the truck, substantially as and for the purpose described.

1,393,147. VENDING-MACHINE. DAVID ALEXANDER MCCOWAN, Toronto, Ontario, Canada. Filed June 30, 1919. Serial No. 307,766. 6 Claims. (Cl. 194—88.)



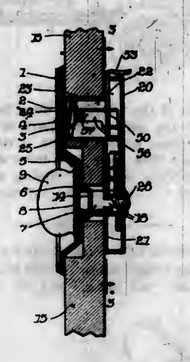
1. In a vending machine, the combination with means for delivering packages one at a time, of a bar pivotally supported and operatively connected with the delivery means and having a slot therethrough extending upwardly from the pivot and a transverse slot in one side intersecting the aforesaid slot, an arm mounted upon said pivot within the slot in said bar and having a slot therein adapted to register with the transverse slot in said bar and adapted to receive a coin, said arm having a longitudinal slot intersecting the coin slot therein, manually operated means for swinging said arm on its pivot and through a coin swinging said bar, and means for dislodging the coin from the coin slots.

1,393,148. PICTURE SPINNING-TOP. WILLIAM H. D. MCQUARRIE, Buffalo, N. Y. Filed Feb. 14, 1920. Serial No. 358,636. 8 Claims. (Cl. 88—19.)



4. In an optical illusion device, a plurality of pictures and means for bringing said pictures successively into view, said pictures including objects having members represented in successive positions, and the movable members of said objects being reduced below the normal number, as and for the purpose specified.

1,393,149. LOCK. FRANK J. MATCHETTE, Milwaukee, Wis., assignor to The Servidor Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 10, 1917. Serial No. 190,440. 10 Claims. (Cl. 40—66.)

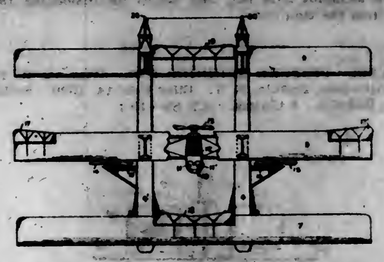


10. A combined lock and signal for use in cabinet doors and including a lock bolt for locking the door, a signal, a member operable from one side of the door for operating said lock bolt, mechanism operated by said lock bolt for operating said signal in one direction only, and manual means operable from the other side of the door for operating said signal in the other direction.

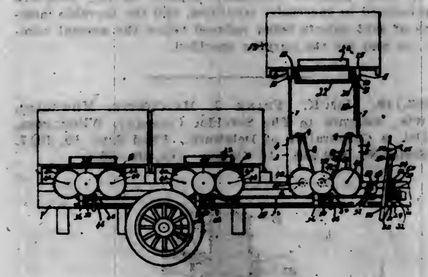
1,393,150. AEROPLANE. CHAUNCEY C. MEDBERY, New York, N. Y. Filed Feb. 28, 1919. Serial No. 279,925. 2 Claims. (Cl. 244—14.)

1. In a machine of the class described, fore and aft aerofoils and a substantially midway intermediate aerofoil above said fore and aft aerofoils, said fore and aft aerofoils being distanced longitudinally from said intermediate aerofoil greater than the depth of any of said

aerofoils, all of said aerofoils of substantially the same length laterally, and in combination with said intermediate aerofoil, ailerons at the lateral margins thereof, and movable portions at about mid-sections of said fore and aft aerofoils.

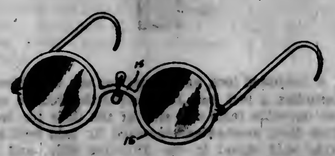


1,393,151. DUMPING HOIST-VEHICLE. HARRIS H. MILLER, Philadelphia, Pa. Filed Sept. 20, 1919. Serial No. 327,960. 2 Claims. (Cl. 298—9.)



1. In a vehicle of the character described, a drive shaft, means for revolving said drive shaft in either direction from the power plant of the vehicle, a timing disk, means for revolving said disk from the drive shaft, and means acting in conjunction with the timing disk for shutting off power between the drive shaft and the power plant.

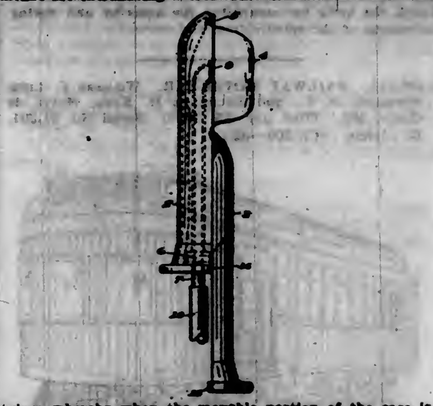
1,393,152. NOSE-GUARD FOR SPECTACLES. WILLIAM G. MILLER, Raynham, Mass. Filed May 20, 1921. Serial No. 471,150. 4 Claims. (Cl. 88—55.)



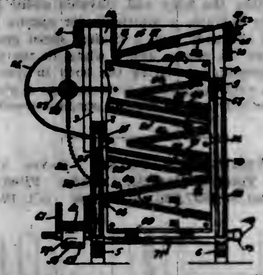
1. A nose-guard for spectacles comprising a plate adapted to be attached to the center portion of the bridge member and set transversely thereof, said plate being provided with a finger or clip to frictionally engage the bridge.

1,393,153. DEVICE FOR TREATMENT BY TEMPERATURE. JOHN FOX MOSHER, Peoria, Ill. Filed Jan. 14, 1921. Serial No. 437,267. 5 Claims. (Cl. 128—385.)

1. In a treatment device the combination of a relatively inflexible case having a movable portion, a relatively flexible treatment medium container in said case, and means for introducing a treatment medium into the container whereby when the movable portion of the case is moved a portion of the flexible container will be distended.



1,393,154. GRAIN-CLEANING MACHINE. HENRY MORTON, Wood Bay, Manitoba, Canada. Filed July 6, 1920. Serial No. 394,388. 6 Claims. (Cl. 130—15.)



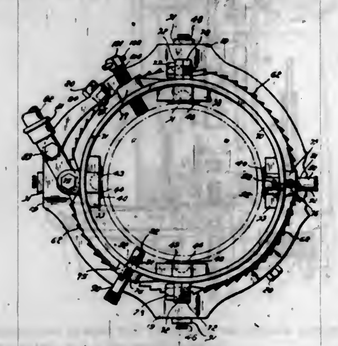
1. In a grain cleaning machine, a supporting and guiding structure for a reciprocable grain shoe comprising opposing sets of vertically disposed guide rollers engageable with opposite sides of a shoe and horizontally disposed supporting rollers extending entirely across the space between the two sets of vertical rollers and at the lower ends of the latter.

1,393,155. PRESSURE-GAGE. RALPH M. NELSON and EMERSON L. ASCHENBACH, Sellersville, Pa., assignors to United States Gauge Company, New York, N. Y., a Corporation of Pennsylvania. Filed Aug. 24, 1920. Serial No. 405,633. 11 Claims. (Cl. 73—109.)



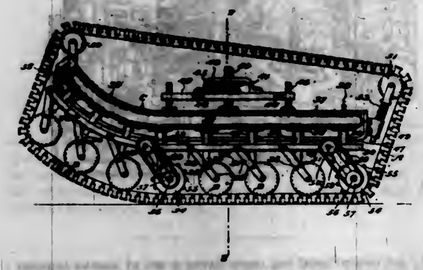
1. In a gage, an indicator, an arm for moving said indicator, a Bourbon tube, a link pivotally connecting said Bourbon tube and arm, and means engaging said link when a predetermined pressure has been reached for stopping the relative movement between said arm and link whereby the latter elements will move as a unit.

1,393,156. PIPE-CUTTER. IRA W. NONNEMAN, Warren, Ohio, assignor to The Borden Company, Warren, Ohio, a Corporation of Ohio. Filed Nov. 8, 1920. Serial No. 422,411. 9 Claims. (Cl. 81—192.)



1. In a pipe cutter, an annular frame comprising detachable sections, each section having a portion cut away at its inner circumferential edge at one end and at its outer circumferential edge at the other to form tongues, the outer tongue of each section overlapping the inner tongue of the adjacent section, and means for securely fastening said overlapping tongues together, said sections being adapted to be separated radially when the connecting means is removed.

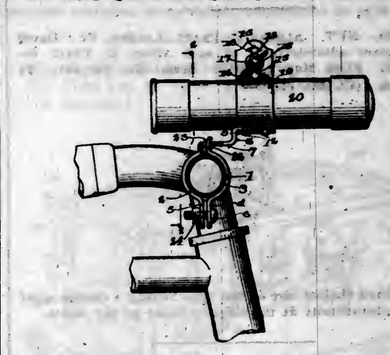
1,393,157. PROPELLER MECHANISM. JOCELYN EMILE OLLIVIER, La Vignette, St. Gervais les Bains, France. Filed May 7, 1918. Serial No. 233,136. 9 Claims. (Cl. 305—9.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a propelling mechanism, an endless track, rollers forming a guide rail for said track and adapted to roll thereupon as successive portions thereof are laid upon the ground, a flexible envelop inflated with air, and means for associating said rollers with said envelop so that the air within the same will cause the rollers to bear with equal pressure against the track.

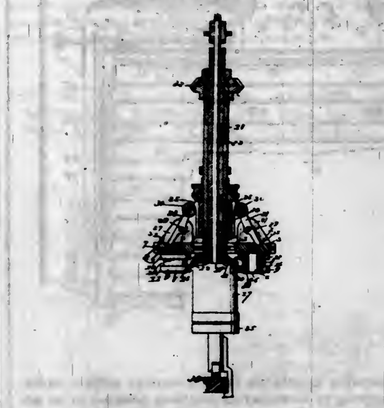
1,393,158. FLASHLIGHT-BRACKET FOR BICYCLES. EWALD F. PAWSAT, Sheboygan, Wis., assignor to Wald Manufacturing Company, Sheboygan, Wis., a Corporation of Wisconsin. Filed Aug. 5, 1919. Serial No. 315,474. 1 Claim. (Cl. 248—3.)

In a flash light bracket, a handle bar clamping member provided with a forwardly extending arm, upwardly offset at an intermediate point, and provided with a transversely concave end portion, in combination with another handle bar clamping member, means for securing the barrel of a flash light to the concave portion of said arm, said barrel engaging means comprising a flexible band having



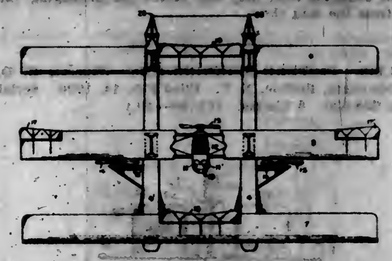
upwardly extending end portions, each provided with a plurality of apertures adapted to receive a clamping bolt, said band being sufficiently flexible to be drawn into conformity with flash light barrels of differing size by the clamping bolt inserted through the appropriate set of apertures.

1,393,159. MACHINE FOR CUTTING CAN-TOPS. CLARK PERCY, South Bellingham, and WILLIAM MILLS, Anacortes, Wash., assignors of one-third to Clarence H. Kent, Seattle, Wash. Filed Sept. 9, 1920. Serial No. 409,274. 4 Claims. (Cl. 30—3.)



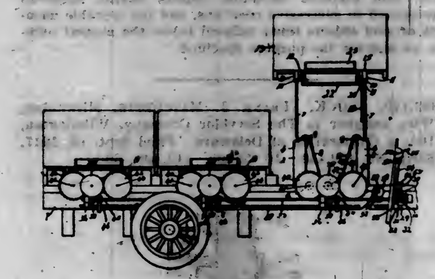
1. In a machine for cutting can tops, can supporting means, a stationary pressure resistance member fitting within the flange of the top of the can, a frame revoluble about the stationary pressure resistance member, carriers mounted in guides of said frame and movable radially toward the center of the pressure resistance member, and cylindrical cutters movable with the carriers, said cutters having annular grooves for the reception of the flange of the can, the upper and lower walls of the grooves having upper and lower right angle cutting edges engaging immediately below the flange of the can top diagonally opposite the margin of the resistance member, the frame revolving about the pressure resistance member whereby the cutting edges of the cutters may roll upon and cut the wall of the

aerofoils, all of said aerofoils of substantially the same length laterally, and in combination with said intermedi-



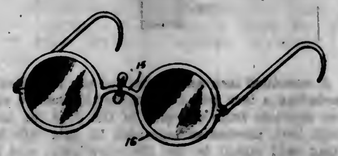
ate aerofoil, ailerons at the lateral margins thereof, and movable portions at about mid-sections of said fore and aft aerofoils.

1,393,151. DUMPING HOIST-VEHICLE. HARRIS ST. MILLER, Philadelphia, Pa. Filed Sept. 30, 1919. Serial No. 327,866. 2 Claims. (Cl. 298—8.)



1. In a vehicle of the character described, a drive shaft, means for revolving said drive shaft in either direction from the power plant of the vehicle, a timing disk, means for revolving said disk from the drive shaft, and means acting in conjunction with the timing disk for shutting off power between the drive shaft and the power plant.

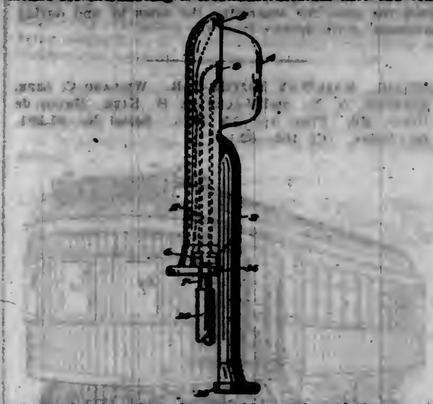
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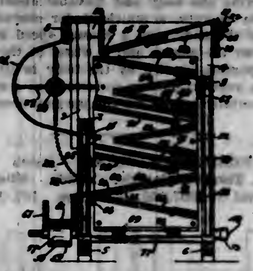
1,393,153. DEVICE FOR TREATMENT BY TEMPERATURE. JOHN FOX MOORE, Peoria, Ill. Filed Jan. 14, 1921. Serial No. 437,267. 5 Claims. (Cl. 128—355.)

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tainer whereby when the movable portion of the case is moved a portion of the flexible container will be distended.

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1. In a grain cleaning machine, a supporting and guiding structure for a reciprocable grain shoe comprising opposing sets of vertically disposed guide rollers engageable with opposite sides of a shoe and horizontally disposed supporting rollers extending entirely across the space between the two sets of vertical rollers and at the lower ends of the latter.

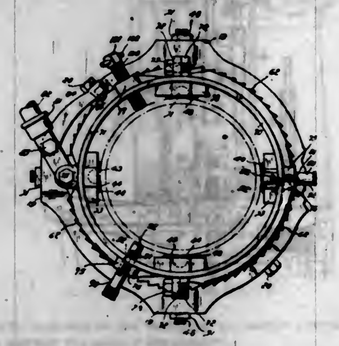
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1. In a gage, an indicator, an arm for moving said indicater, a Bourbon tube, a link pivotally connecting said

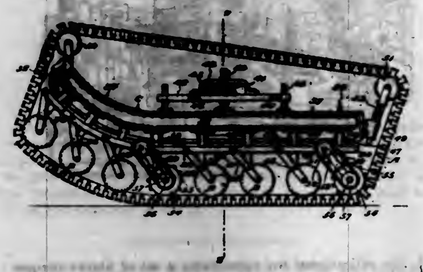
Bourbon tube and arm, and means engaging said link when a predetermined pressure has been reached for stopping the relative movement between said arm and link whereby the latter elements will move as a unit.

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1. In a pipe cutter, an annular frame comprising detachable sections, each section having a portion cut away at its inner circumferential edge at one end and at its outer circumferential edge at the other to form tongues, the outer tongue of each section overlapping the inner tongue of the adjacent section, and means for securely fastening said overlapping tongues together, said sections being adapted to be separated radially when the connecting means is removed.

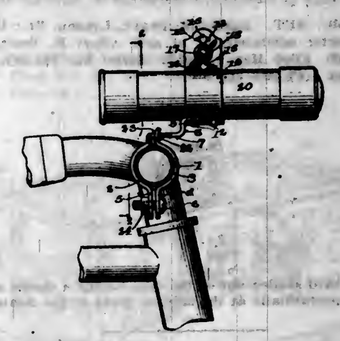
1,393,157. PROPELLER MECHANISM. JOCELYN EMILE OLLIVIER, La Vignette, St. Gervais les Bains, France. Filed May 7, 1918. Serial No. 233,136. 9 Claims. (Cl. 305—9.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



7. In a propelling mechanism, an endless track, rollers forming a guide rail for said track and adapted to roll thereupon as successive portions thereof are laid upon the ground, a flexible envelop inflated with air, and means for associating said rollers with said envelop so that the air within the same will cause the rollers to bear with equal pressure against the track.

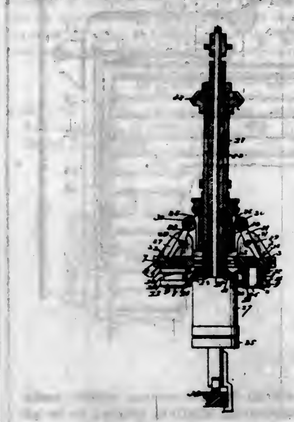
1,393,158. FLASHLIGHT-BRACKET FOR BICYCLES. EWALD F. PAWSAT, Sheboygan, Wis., assignor to Wald Manufacturing Company, Sheboygan, Wis., a Corporation of Wisconsin. Filed Aug. 5, 1919. Serial No. 315,474. 1 Claim. (Cl. 248—3.)

In a flash light bracket, a handle bar clamping member provided with a forwardly extending arm, upwardly offset at an intermediate point, and provided with a transversely concave end portion, in combination with another handle bar clamping member, means for securing the barrel of a flash light to the concave portion of said arm, said barrel engaging means comprising a flexible band having



upwardly extending end portions, each provided with a plurality of apertures adapted to receive a clamping bolt, said band being sufficiently flexible to be drawn into conformity with flash light barrels of differing size by the clamping bolt inserted through the appropriate set of apertures.

1,393,159. MACHINE FOR CUTTING CAN-TOPS. CLARK PERCY, South Bellingham, and WILLIAM MILLS, Anacortes, Wash., assignors of one-third to Clarence H. Kent, Seattle, Wash. Filed Sept. 9, 1920. Serial No. 409,274. 4 Claims. (Cl. 30—3.)



1. In a machine for cutting can tops, can supporting means, a stationary pressure resistance member fitting within the flange of the top of the can, a frame revoluble about the stationary pressure resistance member, carriers mounted in guides of said frame and movable radially toward the center of the pressure resistance member, and cylindrical cutters movable with the carriers, said cutters having annular grooves for the reception of the flange of the can, the upper and lower walls of the grooves having upper and lower right angle cutting edges engaging immediately below the flange of the can top diagonally opposite the margin of the resistance member, the frame revolving about the pressure resistance member whereby the cutting edges of the cutters may roll upon and cut the wall of the

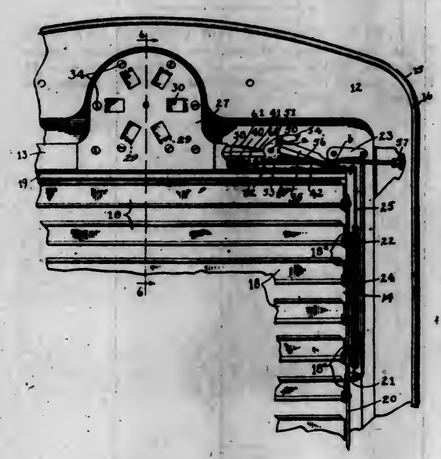
can, the cylindrical surface below either one of said cutting edges, when the cutters are reversed, being parallel with the surface of the can, thereby preventing indenting the wall of the can.

1,393,160. NUT. ALBERT B. PRATT, Lyndon, Vt.; David E. Porter administrator of said Albert B. Pratt, deceased. Filed May 9, 1919. Serial No. 296,041. 11 Claims. (Cl. 99—11.)



1. A hard shelled nut of the type having a double meat kerfed substantially at the meeting plane of the meats.

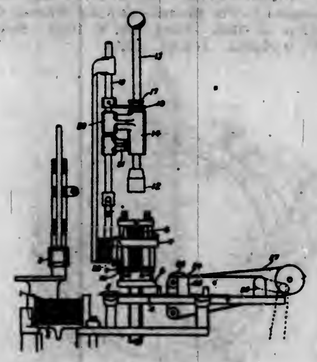
1,393,161. SHUTTER APPARATUS FOR RADIATORS. JAMES F. RALEIGH, Chicago, Ill., assignor to Pines Manufacturing Company, a Corporation of Delaware. Filed Mar. 1, 1920. Serial No. 362,620. 16 Claims. (Cl. 236—35.)



15. A shutter apparatus for automotive vehicle radiators comprising in combination shutters adapted to be adjusted to vary the flow of air through the vehicle engine radiator, means arranged when operated to lock the shutters in closed position, and vibratory means actuated by vibrations incidental to the operation of the engine or running of the vehicle for automatically unlocking the shutters.

1,393,162. ENVELOP-MAKING MACHINE. JOHN PATERSON RAMAGE, Liberton, Scotland. Filed July 21, 1920. Serial No. 398,035. 6 Claims. (Cl. 93—61.)

1. A machine for applying transparencies to envelop blanks comprising a feed table, a picker, a reciprocated feed conveyer adapted to receive the blanks from said picker, an elevating table to which said blanks are transported by said conveyer, a fixed magazine for the transparencies above said table, means for retaining the transparencies in the magazine a self-adjusting clutch-controlled pressure block adapted to descend upon the transparencies, and a conveyer on a plane above said feed conveyer.



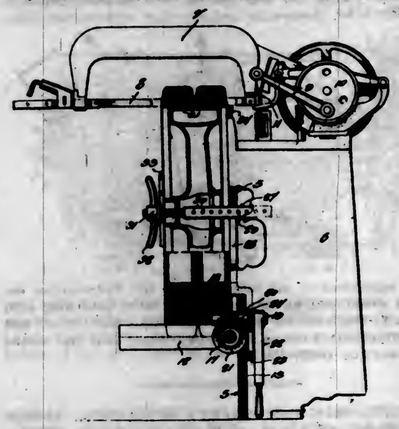
1,393,163. EDUCATIONAL TOY. WARREN M. RASELY, Worcester, Mass. Filed Feb. 3, 1919. Serial No. 274,793. 9 Claims. (Cl. 46—35.)



1. An educational toy comprising a set of blocks impressionistically representing in miniature prominent buildings of a given city or other associated objects of interest without being architectural models thereof, which are adapted to be grouped according to a ground plan to suggest said city or association of objects.

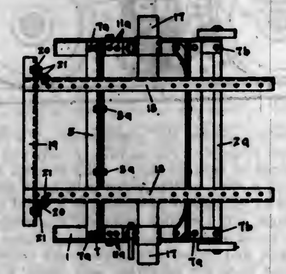
1,393,164. TIRE-CUTTING MACHINE. WILLIAM C. REINHARDT and OSCAR H. BANKER, Racine, Wis., assignors to Racine Tool & Machine Co., Racine, Wis. Filed Sept. 2, 1919. Serial No. 321,136. 6 Claims. (Cl. 29—73.)

1. A machine of the class described comprising a support, a vertically movable and horizontally reciprocating cutting member carried by and extending laterally from the top of the support, a work holding table carried by and extending laterally from the support below the cutting



member, and means for clamping an article seated on the table against the side of the support.

1,393,165. ADJUSTABLE STAND. THOMAS H. REDMON, Meadville, Pa. Filed Nov. 7, 1919. Serial No. 336,322. 4 Claims. (Cl. 29—89.)



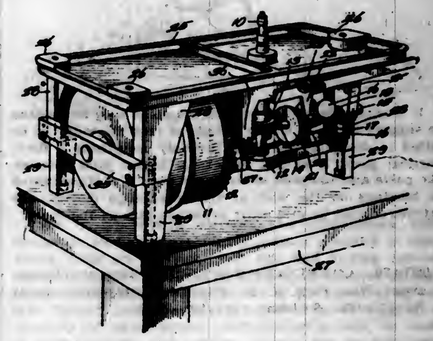
1. In an adjustable stand, the combination of a frame comprising side standards; a swinging work support; trunnions extending from the support; and clamp bearings for the trunnions permitting rotary and axial movement of the trunnions when released whereby the support may be tilted and adjusted in width.

1,393,166. HOLLOW METAL CROWN FOR ARTIFICAL TEETH. JEAN LOUIS PHILIPPE ROUMEGUERE, Auch, France. Filed Aug. 24, 1920. Serial No. 405,600. 1 Claim. (Cl. 89—9.)



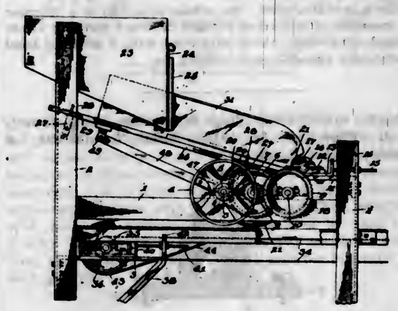
A hollow crown for artificial teeth, having its grinding face and its lateral faces which are visible when the crown is mounted on the artificial tooth, formed completely of metal and shaped to conform approximately to those of a natural tooth of the corresponding type; said crown having its edges bent backward and toward its interior in order to permit the plastic material of the tooth, when the crown is being fitted on a tooth of rubber or other suitable material, to be tightly compressed by said edges.

1,393,167. SPRING-MOTOR. HENRY G. SAAL, Chicago, Ill. Filed Nov. 17, 1919. Serial No. 338,554. 1 Claim. (Cl. 248—30.)



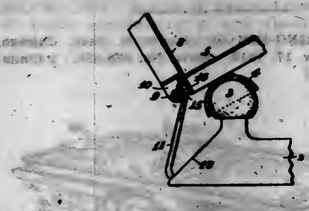
A spring motor having a mounting frame provided with a top portion and formed with legs extended to terminate below the motor whereby said motor may be supported clear of a support upon which the frame legs are placed, one or more of said legs having the lower end thereof displacable to avoid interference of the frame with the structure with which the motor is incorporated.

1,393,168. NUT - BLANCHING MACHINE. THOMAS SANGIULIANO, Wilkes-Barre, Pa. Filed Dec. 28, 1920. Serial No. 433,601. 5 Claims. (Cl. 146—14.)



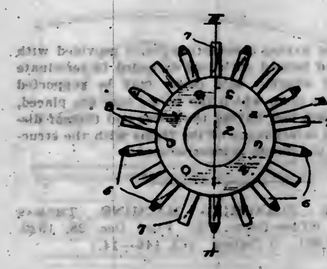
4. A nut blanching machine including a pair of rolls having yieldable contacting surfaces, one of said rolls being provided with annular grooves and the other of said rolls with a smooth unbroken surface, means for rotating said rolls and means whereby the smooth surfaced roller is rotated at a higher rate of speed than the grooved roller.

1,393,169. DUMPING-BODY FOR TRUCKS, &c. GUSTAV SCHLATTER, Steinach, and PAUL BOSSHART, Arbon, Switzerland, assignors to Société Anonyme Adolphe Saurer, Arbon, Switzerland, a Corporation of Switzerland. Filed Oct. 9, 1920. Serial No. 415,780. 4 Claims. (Cl. 298—18.)



1. The combination of a truck chassis, a body and means to support the body on the chassis so that the body can be tilted to discharge the load, the body comprising a floor, vertical posts, a wall, a detachable hinged joint between the posts and the wall at its upper edge, a shaft mounted in bearings on the wall at the lower edge thereof and latches carried by said shaft to engage lugs on the floor.

1,393,170. COMBINATION-STENCIL. JOSEPH SCHMIDINGER, New York, N. Y. Filed Mar. 21, 1921. Serial No. 453,935. 6 Claims. (Cl. 101—29.)



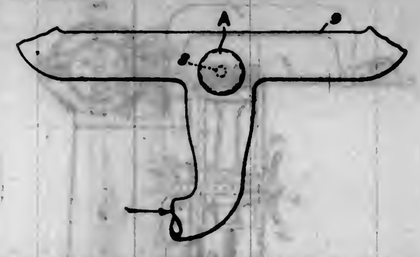
1. In a marking tool, the combination with a circular body member, of radiating cutting dies and striking heads arranged alternately about said head with a striking head diametrically opposite each cutting die.

1,393,171. COUPLING. JOHN SCHNEIDER, Elizabethport, N. J. Filed Dec. 18, 1919. Serial No. 345,891. 4 Claims. (Cl. 287—20.5.)



1. In a device of the class described, in combination, the tubular member threaded near its end, with a tubular unthreaded extension, a fitting having a tubular threaded part, and a base having a socket containing a headed post provided with a constricted recess, said parts being adapted to be connected together so that the screw threaded parts are in engagement, and the unthreaded part of said conduit occupies the constricted recess in said fitting.

1,393,172. SUPPLEMENTAL AIR-INTAKE DEVICE FOR GAS-ENGINES. JAMES H. SENN, Philadelphia, Pa. Filed Aug. 4, 1917. Serial No. 184,475. 1 Claim. (Cl. 123—124.)



A supplemental air intake device for hydrocarbon engines comprising an air conduit, a valve governing said conduit, thermostatic means controlling said valve, and gravity operated means adapted to render said first means substantially ineffective.

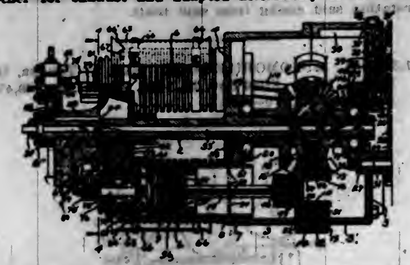
1,393,173. RAILROAD SAFETY APPLIANCE. EDWARD E. SHEAR and WILLIAM G. WAECHTLER, Kingston, N. Y.; said Waechtler assignor to said Shear. Filed June 13, 1919. Serial No. 304,076. 2 Claims. (Cl. 246—170.)



1. In a safety device, the combination of a car truck having wheels adapted to run on rails, a body and springs, a car supported on said springs, a train air pipe having a valve therein, a shoe carried below said truck body, normally extending over one of said rails, at a slight elevation above the same, and yieldable upwardly relatively to said truck, a bell-crank pivoted to said car, connections between said bell-crank and valve, and connections between said bell-crank and shoe for operating said valve when said shoe moves upwardly relatively to said truck body, said last named connections including a vertically disposed link pivotally connected to said bell-crank, an arm rigidly secured to said shoe and extending upwardly therefrom, and a short horizontally disposed link pivotally connected to the lower end of said first named link and the upper end of said arm, the upper end of said arm being arranged to abut against said first named link as a stop, upon any substantial upward movement of said short link about the lower end of said first link as a pivot.

1,393,174. HYDROCARBON-ENGINE. WILBUR L. SHEPARD, Elmwood, Conn., assignor of one-fourth to H. C. Hart, Unionville, and one-fourth to A. N. Pierson, Cromwell, Conn. Filed June 20, 1919. Serial No. 305,532. 1 Claim. (Cl. 123—43a.)

An engine of the class described comprising a rotary carrier, a plurality of cylinders supported by the carrier, pistons in the respective cylinders, cages set in the outer heads of the respective cylinders, a valve extending through each cage and seated when closed against the inner end thereof, means for operating the valves as the carrier rotates, to effect supply to and exhaust from the respective cylinders, a fixed bearing having a conical surface, the carrier having a similar conical surface to engage and turn on the surface of the bearing, passages extending through the bearing one for supply and the other for exhaust and adapted alternately to communicate with the respective cages as the carrier turns, spark means including an electrode extending through each valve, the bearing having means to cause the operative action of the electrodes as the carrier turns.



1,393,175. SHOE-HEEL. OLIVER E. SHEPARD, Emmett, Idaho. Filed Sept. 27, 1920. Serial No. 413,106. 2 Claims. (Cl. 36—41.)



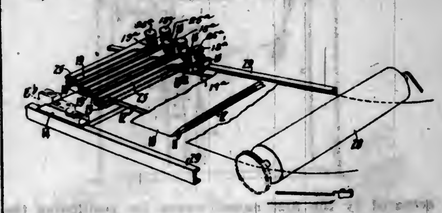
1. In a heel of the character described; a retaining element adapted for being fixedly secured under the heel seat of a shoe, the said element consisting of a metal plate having a portion at the outer end and a portion at the inner end, said portions constituting transversely disposed hook members and a heel composed of a hollow metal body having a transversely extended groove on the inner face of the rear end and a like groove on the outer face of the front end for coengaging with the back and front hook members on the retaining element, the said heel having a limited free slidable contact with the retaining element, the top of the heel body being channeled to receive the retaining plate and having an offset that constitutes a stop shoulder for engaging the rear end of the retaining element, the latter having a bent down member, and a set screw adjustably mounted on the heel body adapted for engaging the bent down member on the retaining element whereby to draw the hollow body and retaining element plate in fixed interlocked connection.

1,393,176. WIRE FENCE. GEORGE L. SMITH, Washington, D. C., assignor to United States Ordnance Company, Washington, D. C., a Corporation of Virginia. Filed May 3, 1919. Serial No. 294,518. 1 Claim. (Cl. 256—32.)



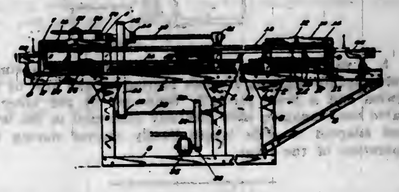
A fence section interposed between two posts having the upper and lower longitudinal members thereof bent gradually toward each other from either end of said section and held in this relation by a plurality of parallel transverse members, said members increasing in length from the center of the section to its outer ends.

1,393,177. TYPEWRITING-MACHINE. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 28, 1917. Serial No. 209,247. 22 Claims. (Cl. 197—126.)



1. In a typewriting machine, the combination with means for feeding a web formed with a plurality of plies whose folds are all along one side and having carbon-sheets interleaved between said plies, of a series of supports extending from front to rear of the machine, on one side thereof, said supports being of different heights, a plurality of superimposed carbon-sheet-holders on each of said supports, and spacers between the superimposed holders, the heights of the supports and the thickness of each of the spacers being such as to provide proper vertical spacing of said holders.

1,393,178. BALE-TIE MACHINE. JOHN SOMMER, Peoria, Ill., assignor to Keystone Steel & Wire Company, South Bartonville, Peoria, Ill., a Corporation of Illinois. Filed Jan. 28, 1919, Serial No. 273,586. Renewed Aug. 27, 1921. Serial No. 496,132. 10 Claims. (Cl. 140—73.)

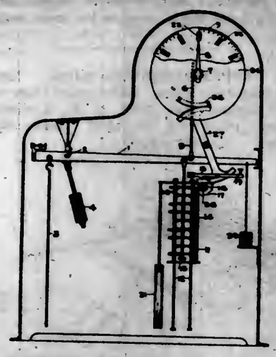


1. In a bale-tie-machine, in combination, a bed including two sets of spaced rails, one above the other, each of said upper rails provided at predetermined points with racks, an endless member movable on said bed, means for operating said endless member, a plurality of carriages connected to move with said endless member, gearing on said carriages arranged to be actuated by said racks, a wire cutting, looping and gripping member operated from said gearing, and a twisting member operated from said gearing.

1,393,179. DIAL-SCALE. MORTON H. STARR, St. Johnsbury, Vt., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt., a Corporation of Vermont. Filed Aug. 17, 1920. Serial No. 404,267. 8 Claims. (Cl. 265—48.)

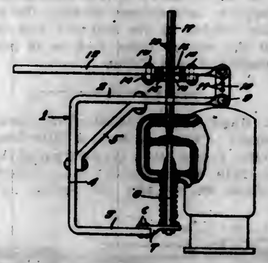
1. In a dial scale having means for changing the capacity through successive ranges, a movable dial bearing a plurality of series of numbers, the corresponding terms in the several series representing total weight values for a given range of capacity, a fixed apertured shield in

front of the movable dial adapted to expose only the corresponding terms of the series of numbers, and connections



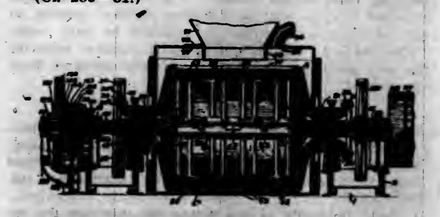
actuated by the first named means for positioning the movable dial to expose the proper numbers for each range of capacity of the scale.

1,393,180. VALVE-LIFTER. CHARLES T. STUBBS, Milwaukee, Wis. Filed Nov. 26, 1920. Serial No. 426,469. 3 Claims. (Cl. 29—86.3.)



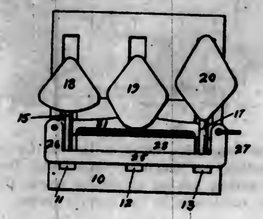
1. A valve lifter comprising a U-shaped frame, having a valve spring-engaging member carried by one arm of the frame and a lever pivotally connected to the other, a valve head-engaging stem pivotally connected to the lever and adapted to slide longitudinally thereof during the operation of the lever.

1,393,181. MIXING-MACHINE. THOMAS J. STURTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed June 10, 1921. Serial No. 476,457. 50 Claims. (Cl. 259—51.)



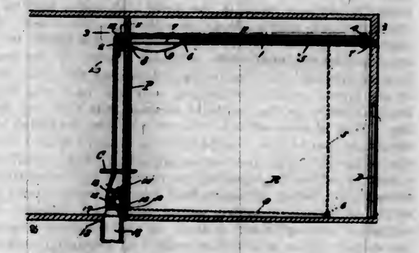
1. A machine for mixing materials, comprising, in combination, a rotary casing having a mouth disposed between the ends of the casing for receiving and discharging materials, hubs projecting from opposed ends of said casing, bearings supporting said hubs, a shaft projecting through said rotary casing and hubs, bearings for said shaft, mixing elements carried by said shaft, means to rotate said shaft, and a speed reduction transmission for rotating said casing from said shaft.

1,393,182. AUTOMOBILE-LOCK. EARL T. TANNER, Des Moines, Iowa. Filed Nov. 20, 1919. Serial No. 339,477. 1 Claim. (Cl. 70—126.)



A locking device for a plurality of pedal controls comprising a rear bar, an arm extending forwardly from said bar at each end thereof, a flange on said bar extending forwardly and terminating short of said bar for leaving a space between said arms and said flange for receiving a pedal control lever in each space, a locking bar pivoted to one of said arms, and adapted to rest against the other of said arms, means for locking together the free end of said locking bar and the free arm, said locking bar being provided with a notch intermediate of its ends whereby a pedal control may be received therein, the parts being so arranged that slight movement of the levers may be had in order to accommodate any inaccuracy in spacing of lever control pedals.

1,393,183. BURGLAR-TRAP. JOSHUA ALEXANDER TATE, St. Louis, Mo. Filed July 29, 1919. Serial No. 314,093. 3 Claims. (Cl. 43—59.)

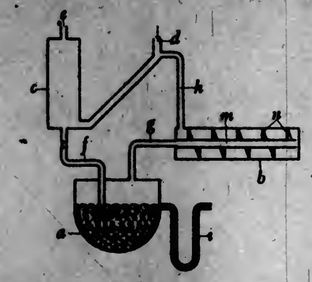


3. A device of the class described including a curtain, a support for the curtain, a weight normally supported, means to release the weight and means operated by the weight, when released, for lowering the curtain and moving it bodily in one direction.

1,393,184. PRODUCTION OF PETROL. FRANK TINKER, Erdington, Birmingham, England. Filed Feb. 18, 1920. Serial No. 359,662. 2 Claims. (Cl. 196—25.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat L., 1313.)

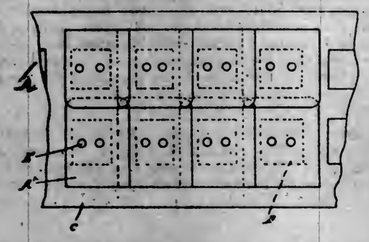
1. In the production of petrol from hydrocarbon oils by means involving a still, a cracking or superheating device, and a fractionating column, mixing superheated vapor with the main stream of the original oil at a position between the cracking device and the fractionating column,

delivering the resultant vapor into the fractionating column and the liquid into a still, generating vapor in



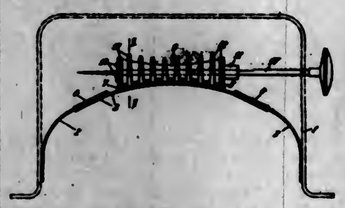
the still, and superheating said vapor in the superheating device for subsequent mixture with the main stream of oil, substantially as described.

1,393,185. PUNCTURE-PROOF SHOE FOR PNEUMATIC TIRES. SAMUEL J. TODD, Detroit, Mich., assignor of one-fourth to Hilliard N. A. McLean and one-fourth to Ralph M. Tate, Detroit, Mich. Filed Jan. 10, 1921. Serial No. 436,026. 2 Claims. (Cl. 152—18.)



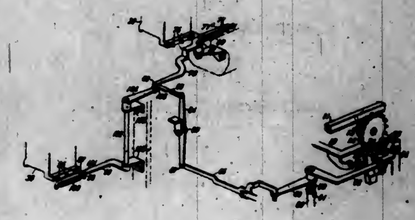
1. The combination with a pneumatic tire, of a protecting shoe therefor comprising a series of resilient metallic plates covering the tread portion of the tire and overlapping each other, a fabric member to which said plates are secured for holding each in a fixed location, a cushioning material between said fabric member and plates, and rigid members embedded in said cushioning material to which the plates are respectively secured.

1,393,186. HAT-FASTENING DEVICE. ALBRECHT ULLI, Le Locle, Switzerland. Filed Apr. 10, 1919. Serial No. 288,912. 3 Claims. (Cl. 132—62.)



1. A hat fastening device comprising a fixed cone member, a comb member having teeth curved about the periphery of said cone member and spaced therefrom, and means for rotating said comb member to rotate the teeth thereof about the periphery of the cone member.

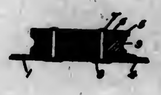
1,393,187. COMBINED TYPEWRITING AND COMPUTING MACHINE. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Jan. 28, 1920. Serial No. 354,681. 10 Claims. (Cl. 235—59.)



1. In a combined typewriting and computing machine, in combination, a traveling carriage, a cross-totaliser, means to cause said cross-totaliser to travel intermittently with said carriage, and punctuation-skipping means adapted to be controlled by said cross-totaliser when the latter is traveling with said carriage.

3. In a combined typewriting and computing machine, in combination, a traveling carriage, a cross-totaliser comprising a series of computing wheels arranged in groups with punctuation spaces at suitable intervals, a master wheel, pick-up means whereby said carriage may effect, in different portions of its path, a relative traveling movement between said cross-totaliser and said master wheel, to enable said master wheel to engage said computing wheel successively, and punctuation-skipping means controlled by said cross-totaliser each time said pick-up means is effective.

1,393,188. LACING DEVICE. ALLEN CLAY WHITEMAN, La Crosse, Kans. Filed May 24, 1921. Serial No. 472,089. 1 Claim. (Cl. 24—149.)

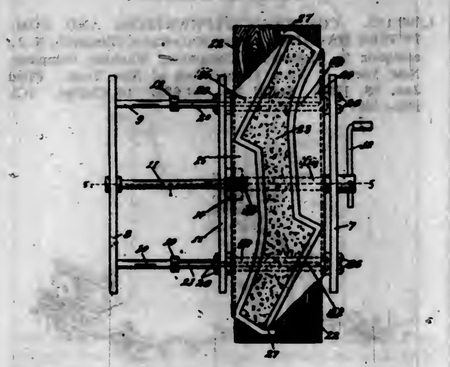


In a device of the class described, coöperating wings; guides disposed upon the wings, each guide embodying pulleys having grooved treads provided with transverse ribs; and a flexible element extended between the pulleys of each guide and coöperating with the threads and the ribs thereof.

1,393,189. BLOCK-FORMING MACHINE. ALFRED WICKSTROM, Minneapolis, Minn., assignor of one-fourth to Frederick Bain and one-fourth to James E. Bain, Minneapolis, Minn. Filed July 24, 1920. Serial No. 398,802. 7 Claims. (Cl. 25—121.)

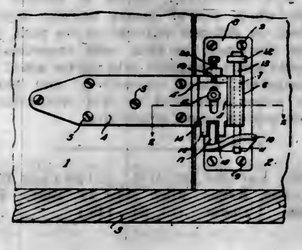
1. In a device of the class described, a suitable platform on which may be supported a building block, two

forms positioned on said platform and adapted to mold said block, means for retracting one of said forms from



said block, and means for subsequently moving said platform away from the other form toward the first mentioned form.

1,393,190. GRAVITY-HINGE. WALTER W. WOOD, Seattle, Wash. Filed May 9, 1921. Serial No. 467,892. 2 Claims. (Cl. 16—154.)



1. A gravity hinge comprising a jamb plate having a projection formed thereon with an upwardly inclined cam surface, a door plate pivoted to said jamb plate and adapted for vertical movement with respect thereto, a supporting plate slidably mounted on the door plate, a roller carried by said supporting plate and adapted to engage said cam surface, means for locking the supporting plate with respect to the door plate and separate means carried by the door plate for adjusting the supporting plate with respect thereto.

1,393,191. PROCESS FOR THE MANUFACTURE OF ETHEREAL SALTS OF ETHYLENIC HALOGENHYDRINS. JEAN ALTWEGG and JOANNY LANDRIVON, Lyon, France, assignors to Societe Chimique des Usines du Rhone (Anciennement Gilliard, P. Monnet et Cartier), Paris, France. Filed June 13, 1919. Serial No. 303,976. 2 Claims. (Cl. 23—24.)

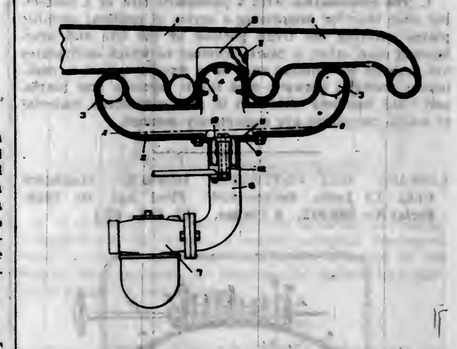
1. A process for the manufacture of ethereal salts of ethylenic-halogenhydrins, consisting in passing gaseous ethylene oxid through a heated acidyl halid.

1,393,192. WINDOW-GUARD. JAMES E. BAKER, Watertown, N. Y., assignor of one-half to Joseph W. Taggart, Watertown, N. Y. Filed Oct. 20, 1920. Serial No. 418,279. 3 Claims. (Cl. 20—52.1.)



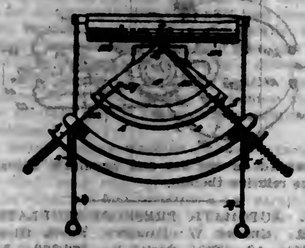
1. The combination with a window frame having a pocket and a vertically movable sheet of glass disposed in line with the pocket, of a pair of plates rigidly mounted at the opposite sides of the pocket, one of said plates being provided with hinge loops, a leaf pivoted to the latter plate and adapted to close the mouth of the pocket when the glass is in its lowermost position and to partially close the pocket when the glass is in its uppermost position, and a spring exerting a constant tension for moving said leaf toward the mouth of the pocket.

1,393,193. VAPORIZER FOR INTERNAL-COMBUSTION ENGINES. GEORGE N. BARCUS, Wabash, Ind., assignor to Gets Manufacturing Co., Andrews, Ind., a Corporation of Indiana. Filed June 1, 1918. Serial No. 237,826. 2 Claims. (Cl. 123—122.)



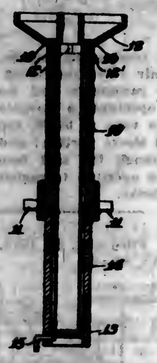
1. In combination with an internal combustion engine, an exhaust manifold, an intake manifold, a mixture conveying pipe leading from the carbureter into the intake manifold substantially at right angles thereto, a valve controlled restricted opening at the junction between the pipe and manifold, and a dome extending from the intake manifold into the exhaust manifold at a point opposite the said opening.

1,393,194. TYPEWRITER. EDUARD BERGMANN, Leipzig, Germany. Filed June 6th, 1920. Serial No. 386,214. 5 Claims. (Cl. 197—35.)



1. In a typewriter in combination, a type carrier, means for imparting to said carrier a straight line movement, a quadrant-shaped guide for said carrier, an arm arranged below said carrier in parallel therewith and fixed thereto and a quadrant-shaped guide for said arm.

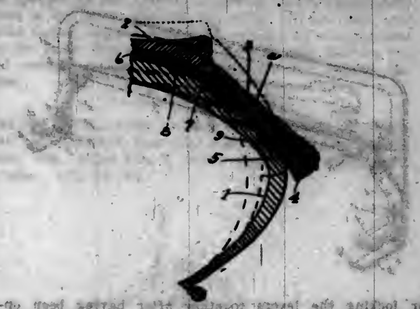
1,393,195. BILLET-CASTING. ROSS EDWARD BRADLEY, Roland Park, Md. Filed Mar. 20, 1920. Serial No. 367,525. 3 Claims. (Cl. 22—170.)



1. The method of casting a hollow billet for use in tube drawing which consists in pouring the molten metal into a mold about a resilient metallic core supported vertically on one of its ends and restrained as to its two ends so that it cannot expand beyond a predetermined maximum but will freely yield to the pressure of the surrounding casting as to its periphery to an extent corresponding to the contraction of the billet upon cooling, and, after the metal of the billet has sufficiently set, removing said billet from the mold with the core therein.

1,393,196. DETACHABLE TIRE-PROTECTOR. BERT E. BERITWEISER, Wichita, Kans. Filed Oct. 19, 1920. Serial No. 418,090. 2 Claims. (Cl. 152—17.)

2. An annular tire-protector of curved transverse section, and comprising a rubber body having a tread and a pair of lateral beads; the side walls of the body increasing in thickness gradually toward said beads; ring-wires embedded in said beads, a wire wound in a flattened coil, looped around the ring wires and embedded in the rubber body, a pair of rubber filling-rings vulcanized within the loops of said wound wire and against the respective ring-wires, and a fabric strip wrapped spirally around said wound wire, said strip also being embedded in the rubber body; substantially as described.



1,393,197. MANUFACTURE OF ARTIFICIAL SILK. EMILE BRONNERT, Mulhouse, Alsace-Lorraine, France. Filed July 10, 1920. Serial No. 395,360. 2 Claims. (Cl. 18—54.)

1. A step in the process of making artificial silk which permits of predetermining the fineness of the thread to be produced, which comprises treating viscose in a coagulating bath containing a salt and an acid, the proportion of the latter to the whole being approximately inversely proportional to the square root of the thread size.

1,393,198. MANUFACTURE OF VISCOSE SILK. EMILE BRONNERT, Mulhouse, Alsace-Lorraine, France. Filed Aug. 30, 1920. Serial No. 406,911. 3 Claims. (Cl. 18—54.)

1. The process of producing artificial silk threads comprising forcing viscose through suitable openings into a coagulating bath consisting of an acid, the concentration of which is proportional to the fineness of the thread desired.

1,393,199. MANUFACTURE OF ARTIFICIAL SILK. EMILE BRONNERT, Mulhouse, Alsace-Lorraine, France. Filed Sept. 14, 1920. Serial No. 410,141. 1 Claim. (Cl. 18—54.)

The process of producing viscose threads of any desired fineness from raw viscose of various consistencies, which comprises forcing the viscose through suitable openings into an acid precipitating bath, the concentration of which is increased proportionately to the increase in the fineness of the thread desired to be produced, the increase in the consistency of the viscose used, and the increase in the size of the openings through which the viscose is forced.

1,393,200. DEMOUNTABLE BAGGAGE-RACK FOR AUTOMOBILE-RUNNING BOARDS. CHARLES M. BUNDEN, Portland, Oreg., assignor to Phillip P. Buehne, Portland, Oreg. Filed Sept. 26, 1919, Serial No. 326,662. Renewed Aug. 10, 1921. Serial No. 491,292. 10 Claims. (Cl. 224—29.)

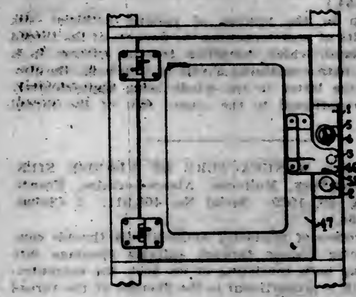
1. A device of the character described comprising a U-shaped frame provided with a laterally projecting clamping jaw at each end, an adjustable clamping member carried by each end of the frame, each clamping member having a companion clamping jaw, levers pivoted to the ends of the frame and adapted for arranging their free ends in alinement, the upper ends of said

clamp members being pivoted to said levers, the levers being operatively connected with each other, and means



for locking the levers together after having been operated to place said clamping members in their clamping position.

1,393,201. COIN-CONTROLLED LOCK MECHANISM. RALEIGH B. BUZZARD, Washington, D. C., assignor, by mesne assignments, to Davis Automatic Equipment Corporation, New York, N. Y., a Corporation of New York. Filed July 17, 1920. Serial No. 397,120. 13 Claims. (Cl. 194—1.)



1. The combination of a coin-controlled lock lockable only upon deposit of a coin and having manually operated means to produce the locking, a door to be locked, and auxiliary means to prevent locking of the lock while the door is open.

1,393,202. DINING-ROOM TURNTABLE. CARL CLAUS, Philadelphia, Pa. Filed Sept. 10, 1920. Serial No. 409,316. 6 Claims. (Cl. 45—26.)



2. A dining room turn table comprising a base, said base including a metallic cap portion having a depending flange at its outer edge, rotatable top supporting devices secured to the said base, and non-metallic means having connection with the said flange for contacting with the table or other support upon which the said turn table is situated.

1,393,203. CALIPERS FOR PIVOT TESTING, TRUING, AND POISING OF BALANCE STAFFS AND WHEELS. CARL CULMAN, Maplewood, Mo. Filed Nov. 23, 1917. Serial No. 203,641. 20 Claims. (Cl. 33—203.)

1. A tool of the character described, including a pair of mutually pivoted jaws having pivot bearings in their extremities, a pin passing through the pivotal centers of the jaws, an index bar rotatably mounted upon said pin and longitudinally adjustable thereon, and an index



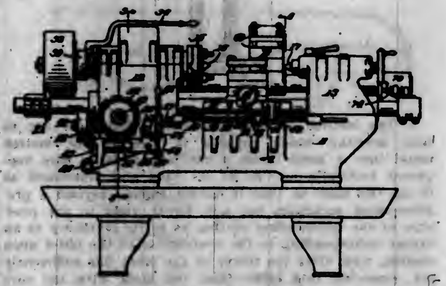
pointer carried on the bar and angularly adjustable in two planes relative thereto.

1,393,204. AUTOMATIC PRESSURE-REGULATED AIR-VALVE. GEORGE W. DAGGETT, North Girard, Pa. Filed Mar. 16, 1920. Serial No. 366,320. 3 Claims. (Cl. 251—125.)



1. In internal combustion engines, an automatic pressure regulated air valve positioned substantially intermediate of the carbureter and manifold, involving a housing having openings; a movable element within the housing having a vane or blade, together with an apertured cylindrical sleeve portion; and an air intake member inserted through the said housing and cylindrical sleeve, having an aperture to register with the aperture formed in said sleeve.

1,393,205. AUTOMATIC LATHE. LEE G. DANIELS, Rockford, Ill. Filed Aug. 28, 1918. Serial No. 251,700. 25 Claims. (Cl. 82—2.)



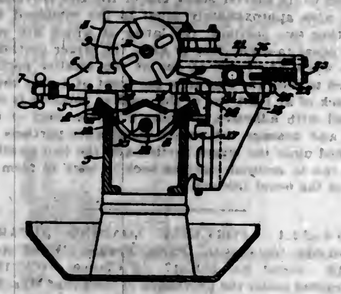
1. In a lathe, the combination of a bed, means for revolving a blank, a bar mounted centrally on the bed to slide longitudinally, a tool carrier adapted to be moved longitudinally by said bar, an oscillatory bar mounted on the bed in parallel relation with and at the rear of the central bar, a tool carrier fixed to the oscillatory bar and adapted by oscillation thereof to carry its tools toward and from the axis of the revolving blank, and means operating between said bars for oscillating the one by longitudinal movement of the other.

10. In a metal working machine, the combination of a suitable frame, a work spindle revolubly mounted thereon, a bar mounted on said frame parallel with the work

spindle and adapted to move axially, a tool carriage mounted upon and carried by said bar so as to be moved lengthwise of the spindle axis by similar movement of said bar, a rack on said bar, a gear meshing with said rack, mechanism for driving said gear to impart feed movement to said tool carriage, means for automatically disconnecting said driving mechanism from said gear, and means constantly urging said gear to revolve in a direction for returning the tool carriage to a starting position, whereby upon disconnection of said driving mechanism the bar and its tool carriage will be automatically returned to a starting position.

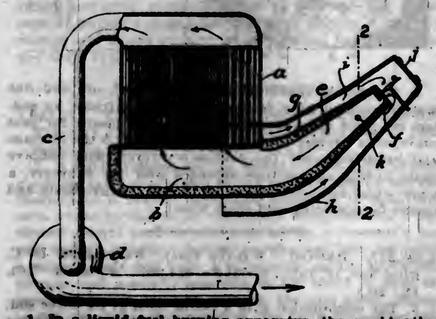
20. In a metal working machine of the character described, the combination of a bed carrying a head stock and a tail stock upon and between which the work is adapted to be supported and revolved, a bar parallel with the work axis and mounted adjacent to its ends for lengthwise sliding movement in bearings at the head and tail stock ends of the machine, a turning tool carriage mounted on said bar between the head and tail stocks and adapted to be fed lengthwise of the work by similar movement of said bar, a back facing tool carriage mounted to move crosswise of the bed toward and from the work, and means operated by lengthwise feed movement of said bar for feeding the back facing tool carriage toward the work.

1,393,206. LATHE. LEE G. DANIELS, Rockford, Ill. Filed Mar. 19, 1919. Serial No. 283,490. 6 Claims. (Cl. 82—2.)



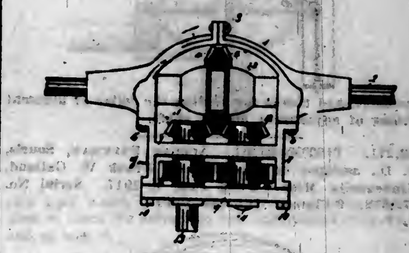
1. In a lathe, the combination of a bed, a tool carriage movable longitudinally thereon, a back facing tool slide movable crosswise of the bed, a rack on the tool slide, a gear meshing with the rack, a cam-actuable member meshing with the gear, and a cam on the carriage for actuating said member through longitudinal movement of said carriage to thereby feed the tool slide crosswise of the bed.

1,393,207. OIL-BURNING APPARATUS. FRANCIS I. DU PONT, Wilmington, Del. Filed Nov. 7, 1919. Serial No. 336,350. 3 Claims. (Cl. 158—29.)



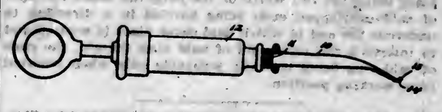
1. In a liquid fuel burning apparatus, the combination with the boiler, of a casing affording a fuel passage extending toward the boiler and provided with an air inlet, a fuel sprayer in the vicinity of the air inlet, there being a hole in the casing between the boiler and air inlet, and a pilot burner located outside the casing and so positioned that the flame thereof is drawn through said hole by the fluid current flowing through said passage toward the boiler.

1,393,208. BALANCED-GEAR DRIVE FOR AUTOMOBILES. OSCAR F. ERICKSON and HANS P. OLSON, Madison, Wis. Filed Feb. 5, 1920. Serial No. 356,463. 1 Claim. (Cl. 74—99.)



In a balanced gear drive, the combination of two bell-shaped housings loosely mounted on the driving axle, with two bevel gears secured together back to back and fastened to said housings and a frame comprising a yoke mounted on said driving axles, and divided midway, the two parts being secured together by bolts and a second frame secured to the first in which a drive and auxiliary shaft is journaled, said shafts connected by spur gears and carrying bevel pinions at their inner ends adapted to mesh with the bevel gears secured to the housings.

1,393,209. DEVICE FOR ADMINISTERING MEDICINE. WILLIS J. EVANS, New York, N. Y. Filed Feb. 2, 1920. Serial No. 355,621. 5 Claims. (Cl. 128—266.)

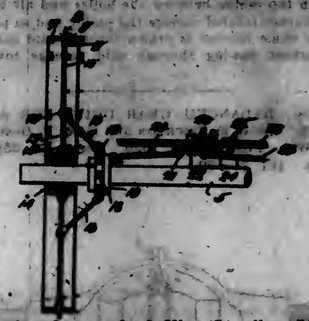


1. A device for administering medicine comprising a tube having a wide thin discharge end bent away from the axis of the tube to act as a tongue depressor, said end being curved slightly backward toward said axis at its tip, whereby the discharge opening therein will not be closed by the tissues of the tongue, and the medicine will be discharged slightly upwardly in the mouth avoiding spraying the same directly into the throat.

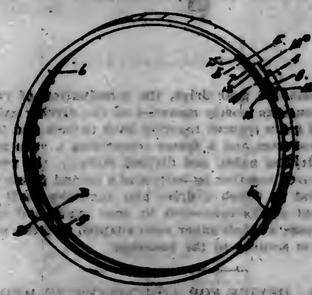
1,393,210. TRACTION-WHEEL. WILFRID N. FLORENCE, Middlebury, Vt. Filed Mar. 4, 1920. Serial No. 363,143. 2 Claims. (Cl. 301—46.)

1. In a traction wheel, a hub having a rim, said rim having apertures therein, traction elements operating in the said apertures, links pivotally connected to the said spikes, links pivotally connected to the hub and to the first mentioned links, links pivotally connected to the inner and outer links at their junctions, a sleeve, a shaft on which the sleeve is splined, means for pivotally connecting

the instrumentality thereof, as either attached to the shaft for holding the sleeve in different positions of adjustment, and means for holding the collar at different positions of adjustment on the shaft.

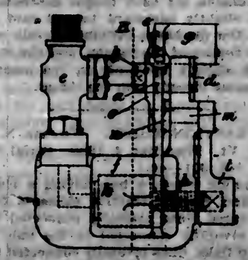


1,393,211. PISTON-RING. ARTHUR FRYKMAN, Souris, N. D., assignor of one-fourth to Frank W. Galland, Minneapolis, Minn. Filed June 4, 1917. Serial No. 172,572. 2 Claims. (Cl. 72—107.)



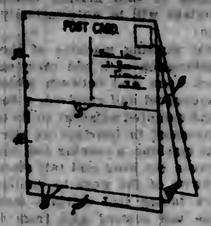
1. A piston ring having transversely undercut overlapped ends, and an independently formed cover plate secured to the inner surface of one of said ends and overlapping the inner surface of the other end of said ring, said cover plate being the full width of the ring, the engaging edges of said overlapped ends being beveled in a direction to undercut the end to which said cover plate is secured and to interlock the other end of said ring thereto, the ends of said ring being laterally separable only when removed from working position.

1,393,212. SAFETY DEVICE FOR OIL-BURNING APPARATUS. JAMES SANDFORD GARDNER, Forest Gate, England. Filed Mar. 3, 1920. Serial No. 367,724. 5 Claims. (Cl. 158—28.)



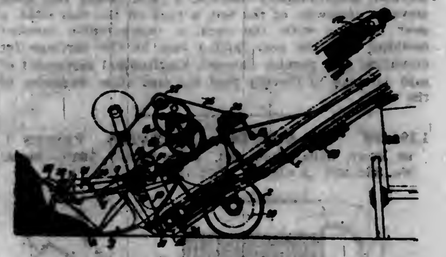
1. In oil burning apparatus an oil supply cock to the burner, means for retaining the burner in position, means for operating the burner, and means for interlocking the control of the cock, the retaining device and the guard so that the guard cannot be raised till the cock is shut off.

1,393,213. POST-CARD. ARTHUR GRIMMER, Birmingham, England. Filed Jan. 6, 1919. Serial No. 270,971. 4 Claims. (Cl. 229—92.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A post card comprising a rectangular sheet of material of about half the usual thickness to allow of the taking of a carbon copy of written or typewritten matter thereon, the sheet being divided into at least three portions by two parallel division lines which pass across the sheet parallel to its shorter sides, one of the end portions being of an area approximately equal to the combined area of the other two portions, the latter of which are substantially equal to each other in area, the larger portion being blank while the front of one of the smaller portions is marked to indicate that it is the front of a post card, and the back of at least one of the smaller portions is entirely covered with adhesive, whereby a carbon copy of the address and message written on the smaller portions can be obtained upon the larger portion and the two smaller portions can be secured together back to back to form a post card of the usual thickness.

1,393,214. PORTABLE LOADING APPARATUS. ADOLPHE GRAFFENRAN, Paris, France. Filed Aug. 24, 1918. Serial No. 251,317. 3 Claims. (Cl. 198—9.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A portable apparatus for loading coal, ore and like materials, comprising, in combination: a carriage, an endless conveyor on said carriage, operating means for said conveyor, a circular receiving basin mounted on the carriage and extending over the endless conveyor, said concave basin having an aperture arranged over the conveyor, a blade wheel rotatably supported in said concave basin and means for operating said blade wheel.

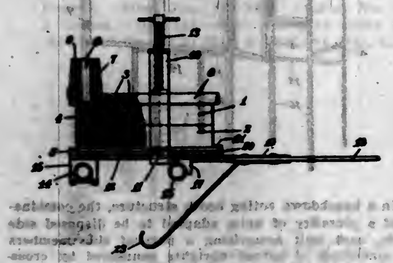
1,393,215. BROOM. WALTER GRAY, Washington, D. C. Filed Nov. 12, 1920. Serial No. 424,967. 4 Claims. (Cl. 15—20.)

3. The combination with a casing open at its lower end, a pair of pivots within said casing and positioned adjacent opposite sides thereof for changing broom straws in place,

and means for moving said jaws toward each other; of connecting means between said jaws and the sides of said casing, and spring means for outwardly bulging the sides of said casing when the jaws are released.



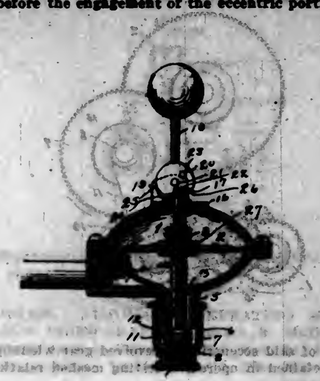
1,393,216. CASTING APPARATUS. ERNEST GUTMUELLER, Woodhaven, N. Y., assignor to Doehler Die Casting Company, Brooklyn, N. Y., a Corporation of New York. Filed June 11, 1920. Serial No. 388,362. 5 Claims. (Cl. 22—91.)



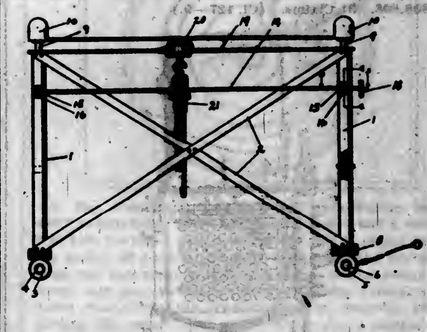
1. In a casting apparatus, the combination of a mold having a mold cavity arranged therein and a gate opening extending through the upper surface of the mold, a pivotal support for said mold beneath the same, a second support upon which said mold is adapted to rest, and a handle member adapted to extend from a side of said mold adjacent to said second support, by which the mold may be swung upwardly about said pivotal support, said handle member having a stop member secured thereto, adapted to engage said second support when the mold has been swung upwardly to a sufficient height.

1,393,217. GAS REGULATOR AND SAFETY DEVICE. TIMOTHY HALEY, Springfield, Ohio. Filed Jan. 2, 1920. Serial No. 349,120. 4 Claims. (Cl. 50—4.)

1. A fluid pressure control device, of the type wherein a control valve is actuated to and from its seat by the fluctuations of a flexible diaphragm subjected to fluid pressure, characterized by an oscillatory weighted arm, a cam shaped pivotal head for said arm having a concentric portion and an eccentric portion merging one into the other, a notch in said cam head, a valve stem carried by the diaphragm and normally engaging in the notch to hold the weighted arm in upright position, the arm being adapted to fall upon the withdrawal of the valve stem from said notch, whereupon the concentric portion of the pivotal cam head first causes idle movement of the valve stem during the initial movement of the arm, and then upon the engagement of the eccentric portion of the cam head which thereupon positively actuates the valve stem to force the valve into firm engagement with its seat and so lock it.



1,393,218. PORTABLE HOIST. WILLIAM J. HERSBOLD, Kalamazoo, Mich. Filed June 19, 1920. Serial No. 389,221. 3 Claims. (Cl. 212—84.)

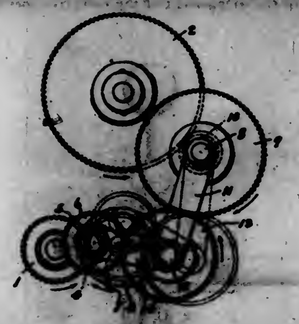


1. In a structure of the class described, the combination of tubular standards, side braces connecting said standards in pairs, carrying wheels, axles therefor mounted on the lower ends of said standards, lifting screws disposed within said standards, bearing blocks arranged within said standards to slidably support said screws, screw driving nuts supported within said standards by said bearing blocks, driving shafts mounted on the outer sides of the standards, driving worms mounted on said shafts and projecting through openings therein to mesh with said nuts, screw heads mounted on said screws, a track mounted centrally on said screw heads, and a trackle running on said track.

1,393,219. INTERMITTENT-MOTION MECHANISM. GIDEON I. HEIL, Newark, N. J. Filed Jan. 11, 1921. Serial No. 436,482. 20 Claims. (Cl. 74—7.)

1. An intermittent motion mechanism comprising an eccentrically revolved gear, transmission gear, a swinging frame pivoted to oscillate from the axis of said transmission gear, an idler gear rotatably mounted on said swing-

ing frame to mesh with said transmission gear, and means compelling said frame to oscillate synchronously with the

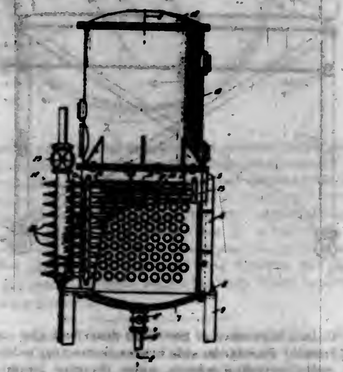


movement of said eccentrically revolved gear whereby the latter is retained in operative driving meshed relation to said idler gear.

1,393,220. PAINT. ALBERT C. HOLZAPFEL, New York, N. Y. Filed May 20, 1921. Serial No. 471,191. 4 Claims. (Cl. 134—39.)

2. An acid proof paint comprising a vehicle including a rubber solution and a pigment including titanium oxid.

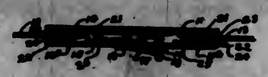
1,393,221. EVAPORATOR. BURTON S. HUGHES, Buffalo, N. Y., assignor to Zaremba Company, Buffalo, N. Y., a Corporation of Maine. Filed July 5, 1919. Serial No. 308,896. 31 Claims. (Cl. 127—9.)



17. In an evaporator the combination of oppositely disposed side plates and tube sheets forming a rectangular shell, a bottom secured to said shell, a vapor chamber above and communicating with said shell, a plurality of rows of tubes supported in and extending through said tube sheets to the outside of the shell, a manifold for each row of tubes, removable nipples connecting the tubes of each row to the corresponding manifolds and means for supplying a heating medium to said manifolds.

1,393,222. BELT-BUCKLE. LOUIS JAROLL, New York, N. Y., assignor to Cohan-Epner Co., New York, N. Y. Filed May 27, 1921. Serial No. 473,149. 6 Claims. (Cl. 24—230.)

1. In a belt buckle a handle piece and a socket piece, each having an integral front, a pair of flanges in the rear of said socket piece, a pair of slots in said flanges, a pair of elastic spurs in the rear of said handle piece, said spurs



being adapted to engage said slots by the motion of handle piece toward said socket piece, and a means for disengaging said spurs from said slots.

1,393,223. PROCESS OF RECLAIMING USED LUBRICATING-OILS. WALTER L. JORDAN, Glendale, Calif., assignor to Calite Products Company, Los Angeles, Calif., a Corporation of California. Filed Nov. 21, 1916. Serial No. 132,631. 3 Claims. (Cl. 87—9.)

1. The process of reclaiming used lubricating oils which consists in mixing finely divided kieselguhr therewith and subjecting the mixture to filtration under pressure.

1,393,224. KNOCKDOWN VOTING-BOOTH. WILLIAM H. JOY and HARRY G. PORTER, Lansing, Mich. Filed June 9, 1921. Serial No. 476,907. 8 Claims. (Cl. 20—8.)



2. In a knockdown voting booth structure, the combination of a plurality of units adapted to be disposed side by side, each unit comprising a pair of side members each consisting of corner uprights connected by cross-pieces, a top tie bar pivotally mounted on the top cross-bar of one of said unit side members and detachably connected to the top cross bar of the other side member, a rear tie bar pivotally mounted on the rear upright of one side member of each unit and detachably connected to the rear upright of the other side member of the unit, doors hinged to the front upright of one side member of each unit to close against the front upright of the other side member and adapted to collapse against the side member to which it is hinged, and clamping members for securing the rear uprights of adjacent units together.

1,393,225. HEAT-INSULATING FORMED BODY AND METHOD OF MAKING SAME. ARTHUR H. KRINGEL, Los Angeles, Calif., and WALTER L. JORDAN, New York, N. Y. Filed Nov. 28, 1919. Serial No. 341,228. 6 Claims. (Cl. 106—18.)

1. A heat insulating body comprising finely divided diatomaceous earth bonded by substances such as accumulated therein from the filtration of sugars, formed into the desired shape and dried.

1,393,226. COOLING APPARATUS. HENRY E. LEAVITT, Berkeley, Calif. Filed May 7, 1919. Serial No. 295,439. 2 Claims. (Cl. 62—169.)

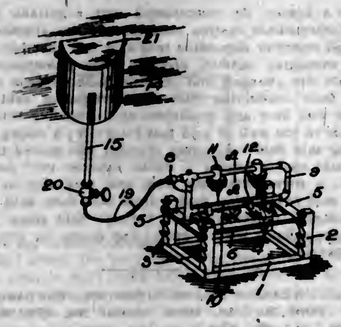
1. In a cooling apparatus, a chamber for containing material to be cooled, a partition of porous material

extending across the top of and directly exposed throughout to the interior of said chamber, means for supplying moisture to said partition, means spaced from said parti-



tion and independent of said chamber for forming with said porous partition a vacuum chamber, a vacuum pump communicating with said vacuum chamber and means for operating said pump.

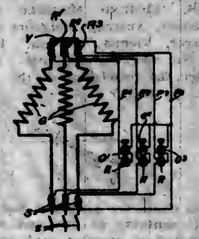
1,393,227. GAS HEATING APPARATUS. JOSEPH LEDUC and NAPOLEON GORBILLE, St. Hyacinthe, Quebec, Canada. Filed Jan. 16, 1919. Serial No. 271,409. 2 Claims. (Cl. 158—63.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a gas heating apparatus, the combination of a polygonal base provided at each corner with an upstanding post formed with a vertical series of teeth; a supporting frame adjustably engaged with said teeth; and a generating pipe mounted on said base and having fuel supply means connected to it.

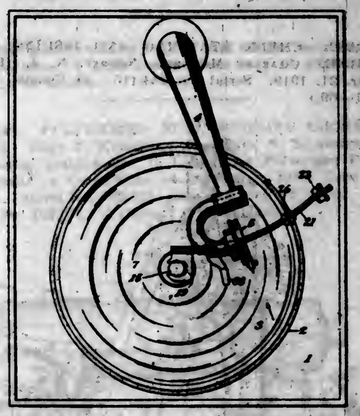
1,393,228. PROTECTIVE DEVICE FOR ALTERNATING-CURRENT ELECTRIC SYSTEMS. ALBERT EDWARD MCCOLL, Dumbarton, Scotland, assignor of one-half to The General Electric Company Limited, Birmingham, England. Filed Dec. 31, 1919. Serial No. 348,676. 6 Claims. (Cl. 175—294.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. In combination, an alternating current circuit, series transformers placed at each end thereof, pilot wires and relays, operation of which is forcibly prevented until the current flowing into said circuit exceeds the current flowing out by an amount which is a definite percentage



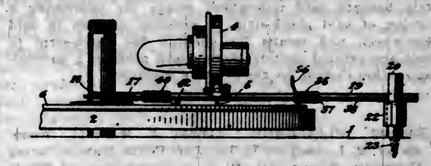
independently of the quantity and direction of the flow of power.

1,393,229. AUTOMATIC REPEATING MECHANISM FOR PHONOGRAPHS. LESLIE R. MCDONALD, Montreal, Quebec, Canada. Filed Mar. 24, 1920. Serial No. 368,264. 14 Claims. (Cl. 274—15.)



1. The combination, in a sound reproducing instrument embodying a rotatable record support and a movable tone-arm provided with a sound box and a record following needle, of automatic means for raising the sound box from the record to permit the sound box to swing outward, and pneumatically checked means, centrally disposed relative to the rotatable record support, for retarding the return descent of such raising means.

1,393,230. AUTOMATIC REPEATING MECHANISM FOR PHONOGRAPHS. LESLIE R. MCDONALD, Montreal, Quebec, Canada. Filed Apr. 10, 1920. Serial No. 372,814. 8 Claims. (Cl. 274—15.)



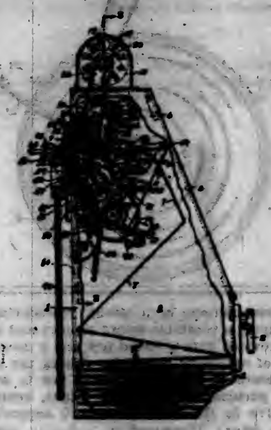
1. The combination, in a sound reproducing instrument, embodying a rotatable record support, movable tone-arm, sound box, and needle, of rotatable, rod-raising means, a slidable and inclinable tone-arm returning rod provided with tone-arm stops, and means adjustably connecting said rod raising means and said rod.

1,393,231. DEVICE OR ARRANGEMENT FOR THE CONTINUOUS MOVEMENT OF ROLLING OR SLIDING BODIES. EDMUND MAGNOLE and HERMANN MARTINEK, Vienna, Austria, assignors of one-third to Adolf Voglmayer, Vienna, Austria. Filed June 10, 1914. Serial No. 844,260. 1 Claim. (Cl. 172—290.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



A device of the character described comprising in combination, a coil, contacts at one end of said coil, a rolling body adapted to connect said contacts, and to close a circuit for exciting the coil, said coil tending to draw said body toward its center, and said contacts forming the pathway for the rolling body and being arranged at such a distance apart that the center of the rolling body is located but slightly above the upper surfaces of the contacts for effecting a rolling of said body at a low rate of speed only, substantially as described.

1,393,282. CHECK STAMPING AND ISSUING MACHINE. CHARLES MAJESKE, Newark, N. J. Filed Mar. 21, 1919. Serial No. 284,115. 18 Claims. (Cl. 101—69.)



1. A check printing and issuing mechanism comprising a type-wheel, a rotary inking roller, an ink-ribbon running over said inking roller and said type-wheel, means for rotating said inking roller to shift said ink ribbon on said type-wheel, means for supporting a portion of a check-strip beneath said type-wheel, means for impressing a portion of said check-strip in printing relation to said type-wheel, and means for shifting the check-strip to eject the printed portion thereof and position a succeeding portion thereof for the printing operation.

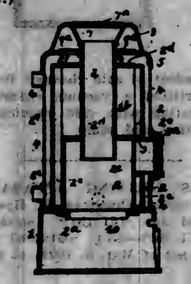
1,393,283. PLUG-GAGE. ALBERT A. MANSELL, Woonsocket, R. I., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I., a Corporation of Rhode Island. Filed Apr. 15, 1918. Serial No. 228,606. 7 Claims. (Cl. 33—178.)

1. As an article of manufacture a gage comprising a body portion a standard gage head on said body portion, a limit gage head on the body portion adjacent the standard gage head, and a pilot head also on the body portion said pilot head comprising a member spaced apart from



the standard gage head and having its work surface comprising a portion of a sphere the diameter of which is slightly less than the diameter of the standard gage head.

1,393,284. HEATER. FRANK W. MERRITT, Duluth, Minn. Filed Oct. 10, 1919. Serial No. 329,675. 2 Claims. (Cl. 122—157.)



1. In a heater, the combination with a suitable base, of an intermediate casting containing a fire chamber, a hard fuel reservoir depending into said fuel chamber, vertically extending radially disposed flues communicating with said fire chamber and open at their opposite ends, and a fluid conducting chamber surrounding said fire chamber and flues and magazines and extending between said flues to the wall of said fuel reservoir; a casing surrounding said fluid conducting chamber and spaced therefrom, said casing having a smoke exhaust port formed therein; a cover extending from said magazine to said casing, said cover being spaced from said flues, said flues being adapted to communicate through said space with said smoke exhaust port; a grate; and means for covering said magazine.

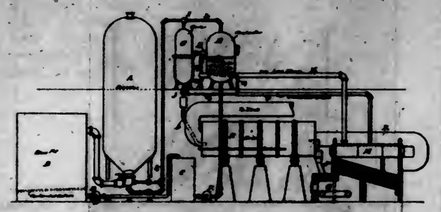
1,393,285. GLASS. ADOLPH MITROVICH, San Antonio, Tex. Filed May 10, 1919. Serial No. 296,120. 2 Claims. (Cl. 65—13.)



1. A cocktail glass comprising an inner and a flangeless outer receptacle, the inner receptacle having a flat circ-

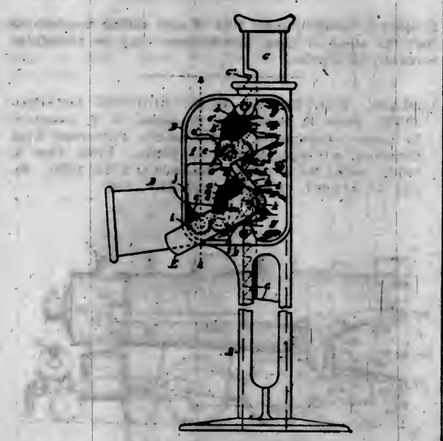
ular bottom and an outwardly flaring upper portion, the outer receptacle having a flat circular bottom adapted to engage the upper end of the outer bottom and an outwardly flaring upper portion adapted to engage the outer surface of the upper portion of the inner receptacle

off sulfur dioxid under suitable conditions of temperature and pressure, whereby the lignin and other resinous mat-



ters are precipitated, and using the steam and sulfur dioxid thus produced for cooking wood pulp in a digester.

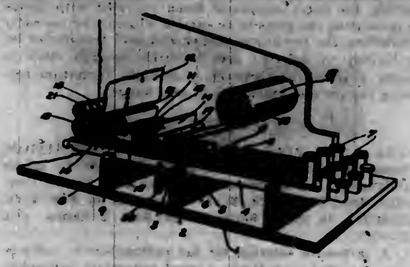
1,393,242. LIFTING-JACK. ADOLPH PETERLEIN, Freeport, N. Y. Filed Mar. 25, 1920. Serial No. 368,779. 5 Claims. (Cl. 254—111.)



1. A lifting-jack having a toothed lifter-bar, a holding detent having a stationary pivot and side stud, a hand-lever, with lifting-pawl pivoted thereon, a bell-crank journaled upon the pivot of the detent a having a long arm and spring to hold the detent in an inoperative position and a short arm for actuation, a reverse crank extended by the side of the lifting-pawl and having a multiplying arm much longer than that upon the bell-crank to multiply the movement of the bell-crank, a stud projected from the lifting-pawl into the plane of the reverse crank and operating when the pawl is moved downward to press upon the reverse crank and turn its multiplying arm against the arm of the bell-crank, all constructed and operated substantially as set forth.

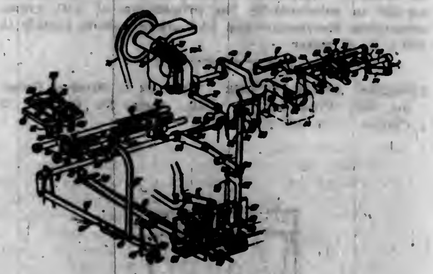
1,393,243. PERFORATOR. EDWIN H. PIERSEN, Topeka, Kans., assignor to The Piersen Manufacturing Company, Topeka, Kans., a Corporation of Kansas. Carved out of the application on which Patent No. 1,289,900 was granted on Dec. 31, 1918, and filed after grant of that patent. Renewed Aug. 25, 1921. Serial No. 495,262. 6 Claims. (Cl. 164—112.)

1. A perforator comprising a plurality of digitally operated levers, each lever having character indicia on one end and a corresponding character on the opposite end, a complementary die member cooperating therewith,



and means for conducting a tape between the die members.

1,393,244. COMBINED TYPEWRITER AND COMPUTING MACHINE. HENRY L. PITMAN, Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Apr. 11, 1918. Serial No. 227,976. 83 Claims. (Cl. 235—59.)



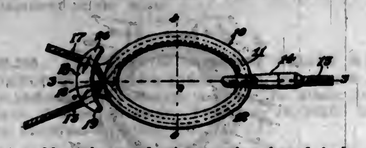
1. The combination with a traveling carriage, of type-keys, means operated by the keys to cause letter-feeding movements of said carriage, means rendered effective by said carriage for returning said carriage to its initial position, and means for preventing the return of said carriage during the actuation of said keys.

20. In a combined typewriting and computing machine, the combination with a traveling carriage, of a totaliser traveling with said carriage, and comprising computing wheels arranged in groups to provide punctuation spaces, a master wheel cooperating with said computing wheels, means for returning said carriage to its initial position, and means for preventing the return of said carriage when said master wheel is opposite one of said punctuation spaces.

42. In a combined typewriting and computing machine, the combination with a carriage, of a decimal-tabulating mechanism for said carriage, a plurality of keys whereby said decimal-tabulating mechanism may be actuated, means for automatically returning said carriage to its initial position, and means for preventing the return of said carriage when a key is in actuated position.

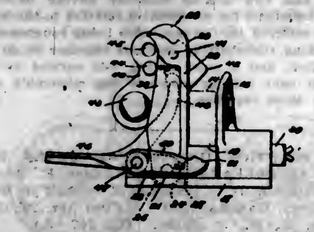
83. In a combined typewriting and computing machine, the combination with a carriage, of tabulating means for positioning said carriage, means, including a manually-operable key, for causing a return movement of said carriage to its initial position, and means for preventing the return of said carriage when said key is operated during the actuation of said tabulating means.

1,393,245. CABLE-HOLDING DEVICE. JOHN HENRY ROSENBERRY, Elmira, Idaho. Filed Nov. 27, 1920. Serial No. 426,800. 3 Claims. (Cl. 24—129.)



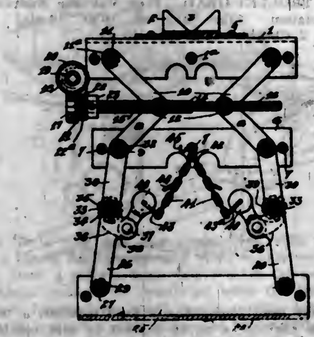
3. A cable take-up having a ring-shaped body provided with an integral outwardly projecting extension presenting a substantially flat surface for the crossed extensions of a cable loop, said body having a peripheral groove for the reception of a cable loop at one side of the said crossed extensions, and a transverse guide at the outer end of said extension having its ends projecting beyond opposite sides of the extension to receive therebeneath the extensions of the cable loop at the opposite side of said crossed extensions thereof.

1,393,246. AUTOMATIC SAFETY SPRING-LATCH. NEIL E. SALSICH, Bethlehem, Pa. Filed May 14, 1920. Serial No. 381,340. 15 Claims. (Cl. 70—128.)



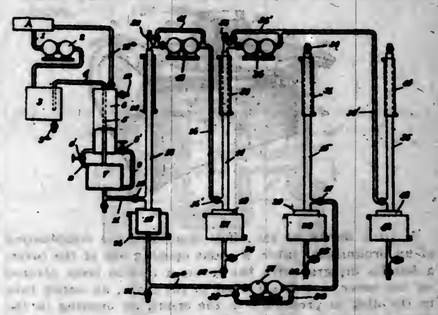
15. In a locking mechanism for switch levers the combination with a guide member of a latch supporting member spaced therefrom to receive the lever arm, an automatic latch on said supporting member movable thereon to a limited extent and normally resting by the action of gravity at one limit of its movement in position to lock the lever arm against upward movement but moving freely to admit the lever arm, a foot lever for moving said latch to open position freely movable therewith in either direction but having a part which moves upwardly into the path of said lever arm just above the lower limit of its movement as the latch approaches the limit of its opening movement.

1,393,247. LIFTING-JACK. JOHN GEO. SAUER, Rochester, N. Y. Filed Feb. 16, 1920. Serial No. 359,500. 7 Claims. (Cl. 254—126.)



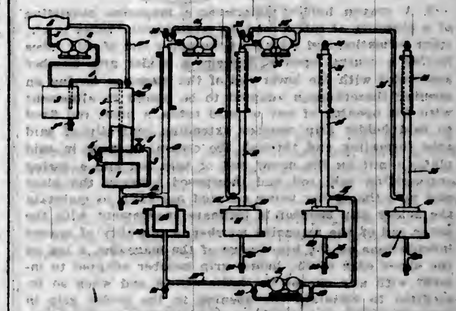
1. In a lifting jack, a lifting member formed of two angle irons arranged in spaced relation, each having a flange projecting outwardly in a plane with the outwardly projecting flange of the other member, a supporting frame, a toggle connecting the supporting frame with the lifting member, and a block detachably secured to the flanges of the lifting member and formed with intersecting notches.

1,393,248. PROCESS OF PRODUCING OLEFINS. HAROLD F. SAUNDERS, Bound Brook, N. J., assignor to The Glycyn Corporation, New York, N. Y., a Corporation of New York. Filed May 6, 1920. Serial No. 379,318. 1 Claim. (Cl. 23—24.)



The process of producing propylene, comprising, subjecting a liquid containing paraffins with higher olefins and propylene and inert gases held in solution therein to a pressure of from 15 to 20 atmospheres in a vessel the lower end of which is maintained at a temperature of about 80° C. while the upper end is maintained at a temperature of about 10° C., passing the gas which separates from the liquid into another vessel which is maintained at the same pressure as the first vessel and at a temperature varying from about 0° C. at the bottom to minus 70° C. at the top, and drawing off propylene in liquid form from the bottom of said second vessel.

1,393,249. PROCESS OF PRODUCING OLEFINS. HAROLD F. SAUNDERS, Bound Brook, N. J., assignor to The Glycyn Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 24, 1920. Serial No. 412,511. 2 Claims. (Cl. 23—24.)



1. The process of producing propylene, comprising, subjecting a liquid containing paraffins with higher olefins and propylene and inert gases held in solution therein to a pressure of from 25 to 35 atmospheres in a vessel the lower end of which is maintained at a temperature of about 80° C. while the upper end is maintained at a temperature of about 10° C., to separate the liquid into a liquid portion and a gaseous portion, passing the

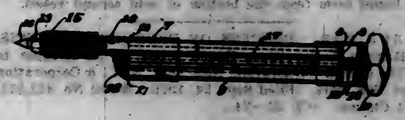
liquid portion into another vessel, which is maintained at a pressure between 1 atmosphere and 25 atmospheres, and at a temperature grading from between 0° C. and 30° C. at the bottom to between about 25° C. and 0° C. at the top, and drawing off propylene in gaseous form from the top of said second vessel.

1,393,250. SAFETY MILK-CAN SPOUT. Wilson F. Shamhaven, Wheeling, W. Va. Filed May 6, 1920. Serial No. 379,321. 8 Claims. (Cl. 221—23.)



1. In a device of the class described, the combination of an ornamental cover, a spout opening out of the cover, a handle integral with the cover, a release lever pivoted on the cover, a disk attached to the cover, an outlet tube in the disk in proximity to the spout, an opening in the disk, stoppers mounted on the release lever and normally closing the outlet tube and the aforesaid opening in the disk, resilient means normally holding the release lever in closed position, and a cam penetrating shaft having an auger member on its lower end and a turning knob on its upper end.

1,393,251. MAGAZINE-CRAYON. Frank E. Small, Jamaica, N. Y. Filed Mar. 25, 1920. Serial No. 368,480. 11 Claims. (Cl. 120—14.)



8. A crayon holder comprising a magazine consisting of a plurality of tubes, ferrules retaining the tubes in circular formation and a plate at the upper end of said tubes having a central opening therein, a holder grip member associated with the lower end of the magazine having an opening therethrough adapted to be placed in alinement with the opening of any of said tubes, a pivot rod fixed to said holder grip member extending centrally of said tube formation and through the central opening in said plate, a nut on the upper end of said rod and a spring surrounding said rod and interposed between the plate and nut, the spring being adapted normally to maintain the holder grip member in intimate engagement with the lower end of the magazine member, a plurality of spaced indentations on the lower edge of the magazine, a lug on the upper edge of the holder grip member adapted to interfit with any one of the indentations and when so interfitted to maintain the opening in the holder grip in alinement with one of said tubes, a supplemental indentation on said magazine spaced between a pair of said before-mentioned indentations adapted to receive said lug and when interfitted with said lug to maintain the opening in the holder grip member out of alinement with any of the tubes, the interfitting lug and indentations being of such contour as to permit the holder grip member to be moved against the resistance of the aforesaid spring to disengage the lug and an indentation.

1,393,252. FLEXIBLE MUD-LEG. Frank M. Syvrud, Forsyth, Ill. Filed Apr. 8, 1920. Serial No. 372,204. 1 Claim. (Cl. 152—14.)



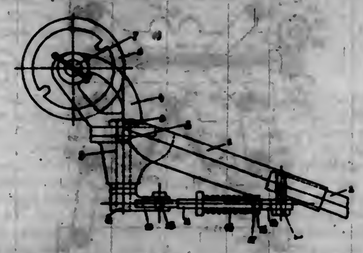
A flexible mud leg consisting of a tread device having a concaved plate for engaging the tread of the tire, the opposite ends of which are slotted, two flexible links, one mounted in each of said slots, two slotted plates flexibly connected to each link and adapted to be disposed upon opposite sides of the tire, the outer faces of which are roughened, and two locking members having flattened and slotted terminals for companative relation to the outer faces above referred to, the same also being roughened, a bolt for locking the abutting portions together in an adjusted position, and a quick acting lock carried by the terminals of said locking members for removably connecting the same together.

1,393,253. SOLUTION-IDENTIFYING MEANS FOR MEDICINAL PREPARATIONS. Millard F. Thompson, Washington, D. C., assignor of one-half to Helge O. H. Murray, Washington, D. C. Filed Apr. 23, 1915. Serial No. 23,471. 2 Claims. (Cl. 167—3.)



1. A tablet of soluble material for use in forming antiseptic solutions or washes, and a tag embedded in the tablet of a material insoluble in the solution and unaffected by the ingredients of the tablet, said tag being adapted to remain in the solution, and bearing a legend which serves to identify the solution, and also to warn against accidental ingestion of the tablet.

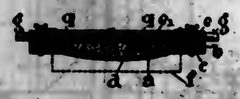
1,393,254. TROLLEY-HEAD. Ivan Van der Straeten, Liege, Belgium. Filed May 24, 1920. Serial No. 383,878. 2 Claims. (Cl. 191—60.1.)



1. A trolley head comprising a fixed member, a member rotatable thereon, a pulley carried by said rotatable member, and resilient means connecting said fixed and rotatable members adapted to return said rotatable mem-

ber to normal position when displaced therefrom, the point of connection of said resilient means with said rotatable member varying according to the direction of angular displacement of the latter.

1,393,255. PROCESS OF FORMING RELIEF MAPS, PICTURES, AND THE LIKE. Karl Wenschow, Berlin-Lichterfelde, Germany, assignor to Albert Deichmann, Cologne, Germany. Filed July 14, 1919. Serial No. 310,872. 6 Claims. (Cl. 41—24.)



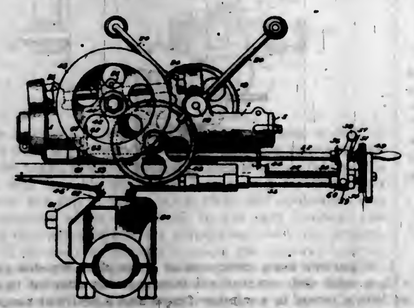
1. The process of forming relief maps, etc., which consists in mounting the pattern in a frame, moistening it to render it stretchable, pouring a plastic mass on the back of the pattern, and molding the stretched pattern according to the image thereon.

1,393,256. BICYCLE-PEDAL. Chester D. Wright, Denver, Colo. Filed Aug. 12, 1919. Serial No. 317,291. 2 Claims. (Cl. 280—70.)



1. In a bicycle of the character described, the combination of the rotary driving shaft, a coaster transmission between the shaft and the driven wheel, and oppositely extending unequally weighted pedal cranks at the ends of the shaft.

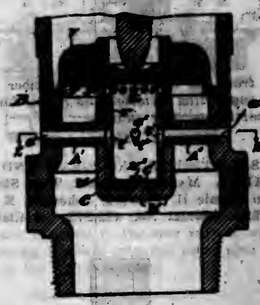
1,393,257. ROCK-DRILL. James C. Wright, Colorado Springs, Colo. Filed Aug. 26, 1919. Serial No. 319,884. 10 Claims. (Cl. 255—42.)



1. In a rock drill the combination with a drill-steel, of a chuck for holding said steel, a hammer for driving the steel, a main driving shaft, means for actuating said hammer operatively connected with the main shaft, a power transmitting shaft, worm gearing connecting said shafts, a driving gear upon said transmitting shaft, and a driven gear, surrounding the drill chuck for rotating the same by engagement with said driving gear.

9. A rotatable chuck for drill castings comprising in combination an outer cylindrical chuck member, an inner chuck member reciprocally mounted within said outer member and adapted to rotate therewith, a compression spring interposed between shouldered surfaces upon both chuck members, and a perforated closure for the rear end of said outer chuck member.

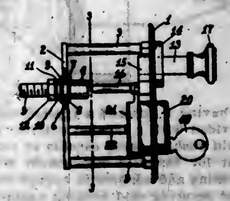
1,393,258. SAFETY-VALVE. Alfred B. Carbart, Winchester, Mass., assignor to Crosby Steam Gage & Valve Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 18, 1919. Serial No. 337,760. 4 Claims. (Cl. 137—53.)



1. In a safety-valve of the plural seat class, the combination of escape apertures communicating with the inner seat-aperture, a tubular extension on the valve disk provided with means directly associated with said escape apertures, to constrict their effective cross-section as the valved disk rises and means associated with said

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1,393,259. BATTERY SWITCH-LOCK. Victor Carosso, Oakland, Calif. Filed Jan. 24, 1920. Serial No. 353,870. 1 Claim. (Cl. 200—44.)



A switch lock including a front and a rear plate connected together, socket contacts on said rear plate, a stud reciprocatively mounted in said front plate, a bus bar mounted on said stud, pins on said bus bar in alinement with said socket contacts, and a lock mounted on said front plate, said lock including a swinging arm adapted to be swung into the path of said bus bar to prevent the introduction of said pins into said socket contacts.

1,393,260. TOOL-CHUCK. James Carr, Syracuse, N. Y. Filed July 29, 1920. Serial No. 399,691. 4 Claims. (Cl. 279—6.)

1. A tool chuck comprising a head having a diametrically extending opening therethrough, a tool-supporting member slidable endwise in said opening and provided with a lengthwise groove, a ribbed member movable in an opening in the head at one side of said member and projecting into said groove to hold the tool-supporting member against

turning, a set screw movable in the threaded opening in the head for tightening and releasing the ribbed member



against and from the tool-supporting member for clamping said tool-supporting member, and means for adjusting the tool-supporting member endwise.

1,393,261. SELF-TIGHTENING GEAR AND PULLEY ATTACHMENT. MARION R. CASEY, Ware Shoals, S. C., assignor to Mamie H. Flowers, Asheville, N. C. Filed Nov. 6, 1920. Serial No. 422,272. 4 Claims. (Cl. 287—52.)



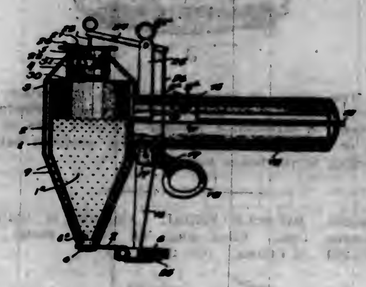
1. A wheel having a hub and a tapered central opening, a bushing provided with a tapered exterior and split longitudinally, said bushing being capable of rotation in said opening, a nut for threaded engagement with the small end of said bushing and adapted to engage the face of said hub, means for securing said bushing against rotation on a shaft, and means for securing said nut to said hub.

1,393,262. NECKTIE-HOLDER. JOHN T. CLARK, Provo, Utah. Filed Nov. 9, 1920. Serial No. 422,842. 3 Claims. (Cl. 24—57.)



2. A necktie holder comprising a piece of spring wire having a button engaging loop medially therein, said loop containing oppositely located bends adapted to straddle the stem of the collar button, and one or more side loops in each free end of the wire, and resilient means connecting a pair of said side loops.

1,393,263. WAX MELTING MACHINE AND SEAL MAKER. JESSE ALEXANDER CLIFTON, Orangeburg, S. C. Filed June 21, 1920. Serial No. 390,573. 9 Claims. (Cl. 120—116.)



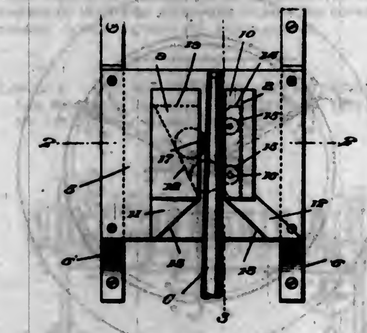
8. A wax melting machine and seal maker comprising a container for wax, said container having a restricted outlet and having a handle extending laterally therefrom, a closing plate for the restricted outlet, a pivotally mounted bell crank, one of the arms of the bell crank having a finger piece for swinging said bell-crank and the other carrying a seal supporting member, the closing plate being connected with the seal supporting member to be actuated therewith, and means controllable at will for heating the wax.

1,393,264. COMBINED PARTING-BEAD AND WEATHER-STRIP. WARREN W. COLE, Portland, Me., assignor to The E. T. Burrowes Company, Portland, Me., a Corporation of Maine. Filed July 24, 1918. Serial No. 246,580. 3 Claims. (Cl. 20—52.4.)



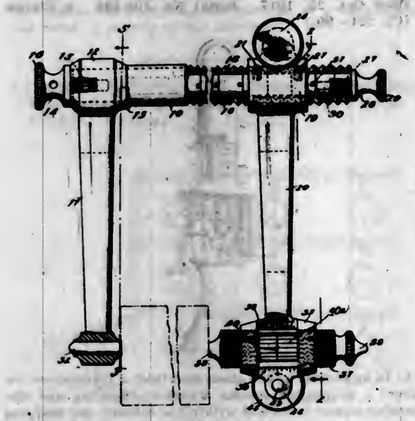
1. A parting bead, composed of a one-piece wooden rail with a solid and non-resilient inner portion adapted to be set into a recess in a window frame and a resilient tongue projecting outward from said solid portion and integral therewith, said tongue having a cushion strip fixed at one side thereof and extending the length of the bead to constitute a weather strip, said resilient tongue serving as a sash retaining means, and said inner solid portion having another projection outward therefrom at the opposite side of said tongue from said cushioning strip to serve as a guard and protector for said tongue.

1,393,265. BILLIARD-CUE HOLDER. ARTHUS E. COOPER, Beacon, N. Y. Filed Mar. 22, 1921. Serial No. 454,599. 3 Claims. (Cl. 24—244.)



1. A holder of the kind described having rollers supported in vertically spaced positions for the engagement of a cue or stick, and a gravity member opposite to said rollers for binding against said cue or stick and clamping it against said rollers.

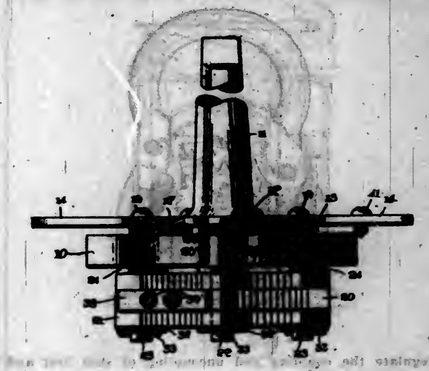
1,393,266. MICROMETER-CALIPER. GEORGE COUSINS, Oswego, N. Y. Filed Dec. 10, 1919. Serial No. 343,738. 3 Claims. (Cl. 33—165.)



1. A micrometer caliper comprising a beam, a pair of caliper legs, one of which is rigidly mounted in connection with the beam, and the other of which is adjustable on the beam, said movable leg having a threaded bearing at its free end, one side of which is cut away and calibrated, and a micrometer screw adjustable in the said bearing, and having indicating means for coöperation with the calibrations of the bearing exposed through the cutaway portion of the bearing, said bearing being split to permit of readily shifting the screw into and out of place, and clamping means normally holding the split portions in operative relation for adjusting movement of the screw.

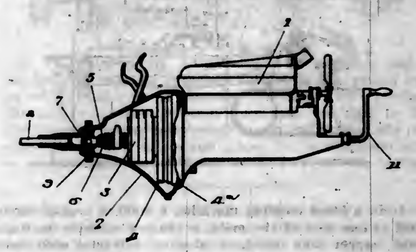
1,393,267. STAYBOLT-CHUCK. GEORGE COUSINS, Oswego, N. Y. Filed Dec. 23, 1920. Serial No. 432,736. 7 Claims. (Cl. 81—53.)

1. A chuck of the type described including a face plate having cam slots, jaw forming members consisting of toothed arms in endwise overlapping relation at the front surface of the face plate, pivot pins extending through the overlapping ends of the jaws and certain of which pins are



extended rearwardly through the cam slots of the face plate, and means adjacent to the rear surface of the face plate and engaging the said extended pivot pins for shifting the latter in the face plate slots.

1,393,268. EASY-STARTING DEVICE FOR AUTOMOBILES. EARL TAYLOR CROWN, St. Petersburg, Fla. Filed Aug. 25, 1919. Serial No. 319,538. 1 Claim. (Cl. 290—1.)

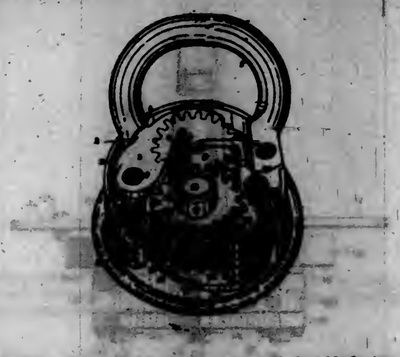


The combination of an engine, a transmission gearing having a socket member, a magneto, part of which is carried by said gearing, a propeller shaft, a universal joint connected to said propeller shaft and having a stub fitted removably in said socket member, and a ring fitted removably on said stub to shift said socket member and part of the magneto, to hold the parts of the magneto close together when starting the engine.

1,393,269. PERMUTATION-LOCK. EUGÈNE MAURICE OCTAVE DESCALLES, Paris, France, assignor to D. O. T. Societe Anonyme pour l'Exploitation des Brevets Descalles, Liege, Belgium. Filed Nov. 14, 1919. Serial No. 337,933. 5 Claims. (Cl. 70—112.)

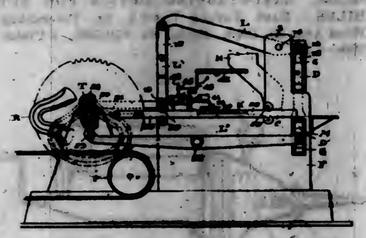
1. In a permutation lock, the combination, with a shackle and a locking element engageable therewith; of a permutation mechanism for controlling the engagement and disengagement of the locking element, comprising a series of superposed wheels, an operating knob connected to one permutation wheel, a projection on said wheel, a slide carried by another permutation wheel and having teeth for engagement by said projection to

releasably couple the first and second wheels together, means for controlling the movements of the shaft to



regulate the coupling and uncoupling of said first and second wheels, and means for releasably coupling the second wheel to a third permutation wheel.

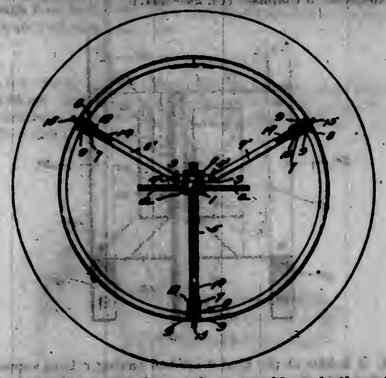
1,393,270. BLOCK-MOLDING MACHINE. JAMES S. DOWNARD, Ardmore, Okla. Filed Dec. 1, 1920. Serial No. 427,605. 6 Claims. (Cl. 25—103.)



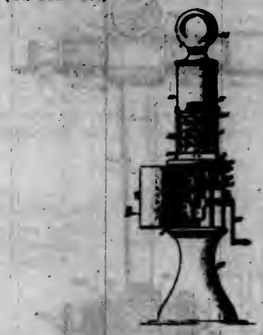
1. In a block molding machine, a mold, a hopper above and at one side of the mold, a charger movable between said hopper and mold, a shutter movable with said charger in a manner to prevent a discharge of material from said hopper when the charger is displaced from the discharge end of the hopper, a carriage mounted for reciprocating movement and operatively connected to said shutter and charger, a rake mounted for reciprocating movement within the charger, and means mounted on said carriage for actuating said rake.

1,393,271. COMBINATION LIFTING-JACK AND TIRE EXPANDER AND CONTRACTOR. JOHN DEHNE and LAWRENCE A. OLMACHENK, Mispah, Minn. Filed Aug. 11, 1919, Serial No. 316,695. Renewed July 12, 1921. Serial No. 484,192. 2 Claims. (Cl. 157—1.)

In a device of the character described and in combination, a threaded collar having a circumscribing groove, a threaded bar held in said collar, a hand held to said collar comprising two similar half sections each having two apertured ends, a pin in each of said ends, an arm pivotally held on each of said pins, a threaded stem passing through the outer end of each of said arms and said threaded bar, two oppositely positioned right angular ears, held on said stems, a head fixed to said ears, each head having a set of two outwardly directed supporting ears with an intervening step shoulder, a pin in each



end of each, a finger held on each of said pins, each finger ending in a clasping ear, a rod on the ends of said stems



to hold said ears and a spring on said projecting stem ends each spring forcing one of said fingers outwardly against a step shoulder, as and in the manner set forth.

1,393,272. LIQUID MEASURING AND DISPENSING APPARATUS. WILLIAM H. DUTTON and CLAYTON H. SHOUP, Cedar Rapids, Iowa, assignors to The Tokheim Oil Tank and Pump Company, a Corporation of Indiana. Filed Oct. 25, 1917. Serial No. 198,493. 8 Claims. (Cl. 221—90.)

1. In apparatus of the class described, a transparent receiver; a supporting column therefor; charging and discharging means contained within the column, the charging means having a movable part; and a hood having pendant members and adapted to shield the receiver, said members being adapted to contact with the movable part of the charging means whereby the hood becomes elevated as the receiver is charged.

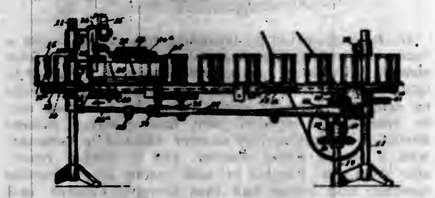
1,393,273. SUITCASE. RAMFORD ELLIOTT, Worcester, Mass. Filed Jan. 21, 1921. Serial No. 438,867. 5 Claims. (Cl. 190—54.)



1. As an article of manufacture, a suitcase having a frame and a covering, a binding covered along and cover-

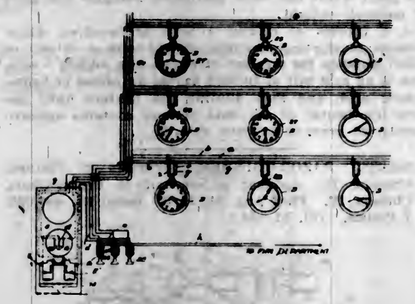
ing the edge of said covering, and a tipping sewed to the binding and covering, projecting inwardly over the outer edge of the frame, and being secured to the inner surface of the frame all around to hold the covering and binding tightly against the frame outside.

1,393,274. ART OF FORMING CONTAINERS. JOHN LEE FERGUSON, Joliet, Ill. Filed July 16, 1919. Serial No. 311,247. 44 Claims. (Cl. 93—55.)



1. In apparatus for producing an assembly of container-forming elements and wherein a cap is adhesively secured to one of the open ends of a tubular body portion member, a continuously traveling support for the member, means for supplying the adhesive to the traveling member, means for rotating the member during application of adhesive, a cap-supplying station through which the member travels and wherein the cap is located on the member, and means for rectifying the position of a mispositioned cap prior to setting of the adhesive.

1,393,275. ANNUNCIATOR. HECTOR ALBERT FRANE, Hood River, Oreg. Filed Nov. 1, 1919. Serial No. 335,663. 4 Claims. (Cl. 161—2.)

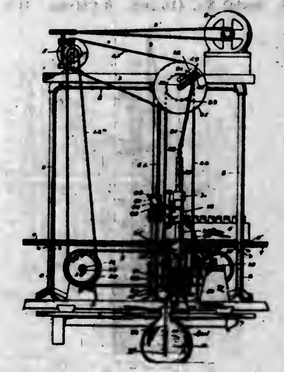


1. A device of the character described comprising a series of open circuits, a second series of open circuits, a plurality of signal stations interposed in said circuits, means for alternately closing the first mentioned series of circuits at one point and the second mentioned series of circuits, a plurality of signal stations interposed in said circuits, means carried by each station for closing one of the circuits of the first mentioned series at another point, and means for simultaneously closing all of said circuits at all points.

1,393,276. FILLING-MACHINE. AUBREY V. FULLER, New York, N. Y. Filed Mar. 16, 1920. Serial No. 366,245. 13 Claims. (Cl. 226—99.)

1. In a filling machine, the combination of means for moving the receptacles to be filled, said means consisting

of a conveyer, and a tray carried thereby, means for engaging the tray and arresting the movement thereof, and



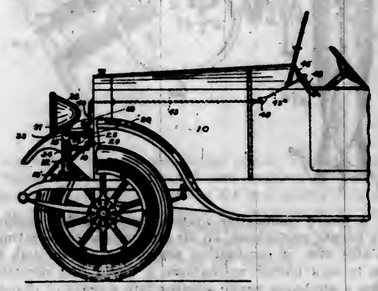
means for discharging measured quantities of a liquid into said receptacles.

1,393,277. PLATEN-CLUTCH FOR TYPEWRITING-MACHINES. CARL GABRIELSON, Syracuse, N. Y. Filed Feb. 5, 1919. Serial No. 275,175. 9 Claims. (Cl. 197—123.)



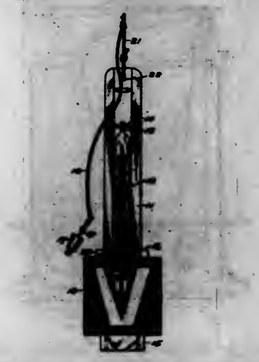
1. The combination with a typewriter platen and a ratchet ring thereon of rollers carried by the platen and on which said ring is mounted and means for crowding the rollers in their raceway to clamp the ring to the platen, said means comprising a part extending into the race between the rollers and means for turning said part to exert separating pressure on and crowd the rollers.

1,393,278. MOTOR-VEHICLE HEADLIGHT. FOREST G. GAUNTT, Fort Wayne, Ind. Filed Dec. 18, 1919. Serial No. 345,713. 9 Claims. (Cl. 240—61.)



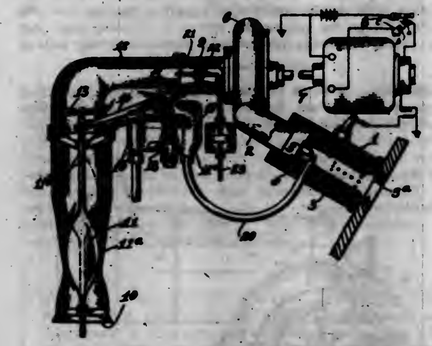
5. The combination with a vehicle, of a plurality of headlights pivotally supported on the vehicle, means having connection with the headlights for rotating them simultaneously laterally, and means having connection with each headlight for causing the same to tilt as it is rotated and being adjustable to control the direction of said tilting movement independently of the other headlight.

1,393,279. TEMPERATURE-INDICATING DEVICE. ALBERT L. GRASDORFF, Bartlesville, Okla. Filed Oct. 12, 1920. Serial No. 416,366. 6 Claims. (Cl. 73—52.)



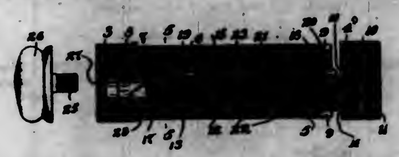
5. In a device of the kind described, a hollowing casing formed of heat insulating material having an opening in the top thereof, a plug frictionally engageable in said opening to close the same, a suspension cord connected to and adapted to withdraw said plug, a thermometer extending through the wall of the casing, and a flexible strand connecting cord and a fixed part of the device and arranged to be loose when the plug is engaged in said opening.

1,393,280. BURNER-REGULATION SYSTEM. JOHN GOOD, Garden City, N. Y., assignor to Good Inventions Co., New York, N. Y., a Corporation of New York. Continuation in part of application Serial No. 86,455, filed Mar. 24, 1916. Patent No. 1,267,760, dated May 28, 1918. This application filed Jan. 4, 1918, Serial No. 210,298. Renewed Mar. 5, 1921. Serial No. 449,744. 16 Claims. (Cl. 158—28.)



1. A forced combustion system for liquid fuel comprising a burner mechanism, an air pipe, means for creating a regulable flow of combustion supporting air through the same to said burner mechanism, a liquid fuel receptacle having a discharge nozzle opening into a space or chamber in communication with said air pipe so as to be subject to the pressure condition therein and a transfer pipe conducting liquid fuel from said chamber separately from the air flow in said air pipe to said burner mechanism, the said parts being organized and arranged to discharge liquid fuel to said transfer pipe in a predetermined and substantially constant proportion to the rate of air flow in said air pipe.

1,393,281. ELECTRIC FUSE. FRANK E. WILLEY, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Nov. 16, 1916. Serial No. 131,690. 17 Claims. (Cl. 200—131.)



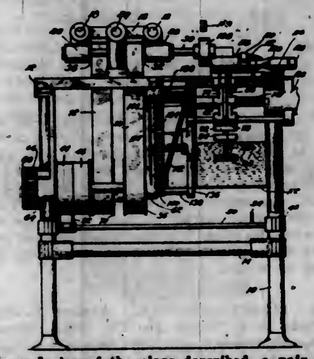
10. In combination, an insulating fuse casing having a conducting end member adapted to coöperate with a socket member, a unitary fuse carrying element disposed in said casing and reciprocable therein, a fuse thereon, means on said fuse carrying element whereby said fuse may be renewed or replaced, said fuse carrying element having a conducting end member adapted to coöperate with a second socket member, and a member removable from the exterior of said casing for connecting together said casing and fuse carrying element, said fuse carrying element being constructed and arranged to expose said means whereby the fuse element may be renewed or replaced upon removal of said member and withdrawal of said fuse carrying element from said casing.

1,393,282. PRESERVATIVE FOR MILK. GEORGE GRINDROD, Kent, Wash., assignor to Carnation Milk Products Co., Seattle, Wash., a Corporation of Maine. Filed Jan. 7, 1918. Serial No. 210,617. 5 Claims. (Cl. 99—1.)

3. A process of making a milk preservative which consists in heating a mercuric chlorid with sodium chlorid and the desired amount of water, then adding a solution of fuchsin hydrochlorid acidified with hydrochloric acid, sufficient to make approximately one per cent. of fuchsin in the finished product, and then diluting the mixture to the point where one cubic centimeter contains one gram of mercuric chlorid.

4. A process of making a milk preservative, which consists in treating mercuric chlorid with a chlorid of alkali metal in the presence of water, then adding a solution of an acid salt of fuchsin having an excess of hydrochloric acid, and then diluting the mixture until one cubic centimeter of the final product contains approximately one gram of mercuric chlorid.

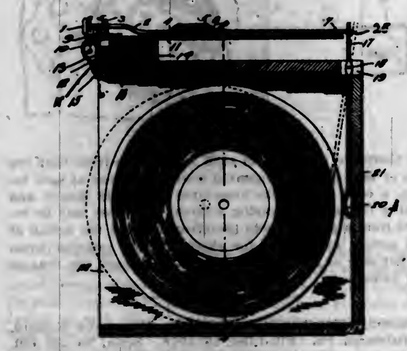
1,393,283. RAZOR-GRINDER. STEPHEN O. HEINDL, Chicago, Ill., assignor of one-half to Ernest Zeits, Chicago, Ill. Filed Aug. 21, 1920. Serial No. 406,060. 7 Claims. (Cl. 51—84.)



2. In a device of the class described, a pair of grinding wheels, a carriage adapted to carry a piece of work

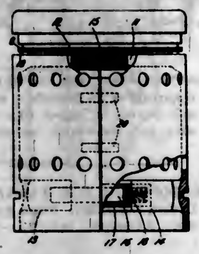
to and fro between said wheels, automatic cam means for reciprocating said carriage, and manual means for limiting the reciprocatory displacement of said carriage simultaneously with its operation.

1,393,284. PHONOGRAPH-RECORD-CABINET ATTACHMENT. GEORGE M. HENRY, Pullman, Wash. Filed Nov. 9, 1920. Serial No. 422,788. 1 Claim. (Cl. 211—16.)



In a phonograph record attachment, the combination of a cabinet adapted to be inserted in the record compartment of a phonograph, said cabinet having a series of closely spaced vertical partitions, forming compartments each of which is of suitable size for one disk record, a series of ejecting levers, pivotally mounted at the rear of the cabinet one for each compartment, and a spring-controlled and forwardly pressed forked rod slidably mounted on the top of the cabinet adapted to releasably engage any one of the ejecting levers and operate same.

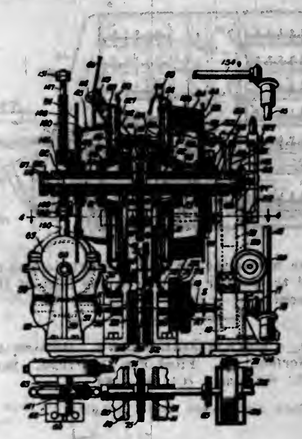
1,393,285. PISTON. JOHN ROBERT HOBBS, London, England. Filed June 15, 1920. Serial No. 389,193. 5 Claims. (Cl. 74—108.)



1. A piston comprising a head formed with a tubular sleeve and a detachable slipper formed in two parts, each part of the slipper having a pin projecting therefrom to seat in the tubular sleeve.

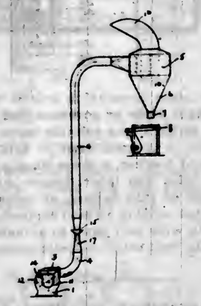
1,393,286. REELING-MACHINE. WILLIAM F. HOSFORD, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 3, 1918. Serial No. 210,135. 12 Claims. (Cl. 242—25.)

1. In a continuously operating wire reeling machine, a continuously driven supporting member, a pair of receiving reels removably mounted for replacement upon said supporting member, a material distributing means, means for shifting said distributing means back and forth



from a full to an empty reel in the operation of the machine, and a gripping means associated with each of said reels to secure the wire to the empty reel at each shift of said distributing means.

1,393,287. APPARATUS FOR CAP-STEMMING RAISINS. THOMAS B. HUNTER, San Francisco, Calif. Filed Nov. 22, 1920. Serial No. 425,593. 5 Claims. (Cl. 146—5.)

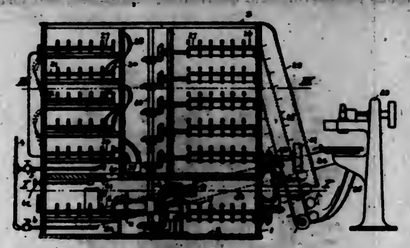


1. Apparatus for cap stemming raisins and the like, comprising a duct constructed and adapted to receive raisins therein, means for forcing air and raisins through said duct, a receptacle of relatively large capacity into which the duct is adapted to discharge the air and raisins, and a surface over which the raisins are forced whereby the capstems are separated from the raisins.

1,393,288. CANNING MACHINERY. FRANK O. HUTTON, Sacramento, Calif. Filed June 30, 1920. Serial No. 393,007. 9 Claims. (Cl. 126—272.)

1. A combined exhausting and cooking machine comprising a pair of annular compartments one superimposed above the other and both within a steam chamber, can con-

veying means in each compartment, an inlet and outlet for each compartment and means external to said chamber



adapted to receive the can from the outlet of one compartment and to transfer said can to the inlet of the other compartment.

1,393,289. CENTRIFUGAL BRAKE. HOWARD A. JOHNSON, Norfolk, Va. Filed Feb. 16, 1920. Serial No. 359,073. 8 Claims. (Cl. 188—184.)



5. A centrifugal brake or governor, comprising, a housing adapted to be fixed to a suitable support and having a transverse plate, a bearing fixed to said plate, a roller journaled on said bearing, a drum fixed to said plate and provided with outer and inner flanges, a brake-band contacting with one of said flanges, an annular support for said band, pivoted weights on said support, means connecting said weights with said band to actuate the same, and a part connecting said roller and said support to rotate the latter.

1,393,290. TREATMENT OF METALS AND THEIR SURFACES. BELA A. KELLER, Newark, N. J., assignor of one-third to Marion E. Messersmith, Newark, N. J., and one-third to Moses E. Stern, New York, N. Y. Filed May 28, 1919. Serial No. 300,273. 6 Claims. (Cl. 91—68.)

1. A method of treating the surface of a base of metal, which consists in treating the surface of said base of metal, first to a solution of shellac, denatured alcohol and ether, and secondly, to a solution of celluloid or analogous material, and acetone.

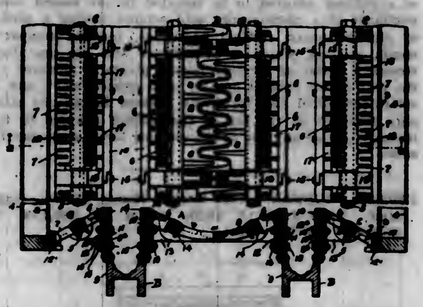
1,393,291. REAR SIGNAL DEVICE FOR VEHICLES. FREDERICK C. S. KNOWLES, Freeport, N. Y. Filed June 28, 1920. Serial No. 392,394. 3 Claims. (Cl. 116—64.)

1. A rear signaling device for vehicles comprising a casing adapted to be mounted in conspicuous location at the rear of the vehicle, a rotatable post having bearings in said projecting from said casing, a significative wing-like plate carried by said post, a sheave within said casing, means which at the same time connect said sheave and said post and serve to retain said post in its bearings in said casing, a spring adapted to yieldingly retain said sheave



and therefore said post in such rotative position that the edge of said plate is presented toward the rear of said vehicle, a cord or the like associated with said sheave and passing through said casing whereby said post may be rotated from a point remote therefrom against the action of said spring, and means for checking such rotation when the flat side of said plate is presented toward the rear of said vehicle.

1,393,292. UNDERFEED STOKER. FREDERICK KOSSIE, Pittsburgh, Pa. Filed Dec. 19, 1918. Serial No. 267,480. 6 Claims. (Cl. 110—44.)



5. In an underfeed stoker, the combination of a grate, a feed trough constructed to provide a means of support for said grate and having an upper edge portion disposed in contiguity with but removable independently of said grate.

1,393,293. REPRODUCER FOR TALKING-MACHINES. WILLIAM T. LAKIN, Long, Md. Filed Apr. 18, 1919. Serial No. 291,068. 8 Claims. (Cl. 274—35.)



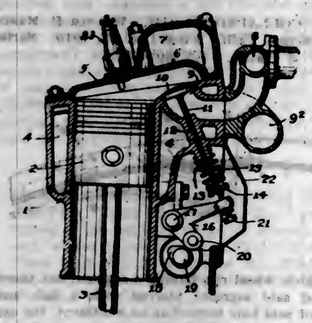
1. In a reproducer, a frame, a needle bar, fulcrum means therefor carried by the frame, axially opposing adjustable flexible bar-supporting pins, and intermediate elements carried by the needle bar and engaged by said pins.

1,393,294. FOLDING LUGGAGE-CARRIER. LAURENCE LOUIS LAMOOMA, Sioux City, Iowa. Filed Mar. 6, 1920. Serial No. 365,901. 5 Claims. (Cl. 224—39.)



1. A folding luggage carrier comprising running board clamp, uprights pivotally connected with the running board clamps above the running board, a readily collapsible rack connected to the uprights, and bars pivotally connected to each other and to the uprights and clamps to form sides for the carrier, said rack being prevented by the sides from swinging below the running board.

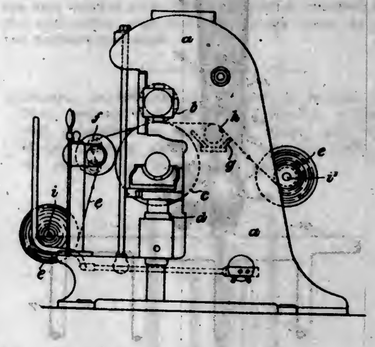
1,393,295. INTERNAL-COMBUSTION ENGINE. VINCENT LINK, Detroit, Mich., assignor to The Studebaker Corporation, a Corporation of New Jersey. Filed Jan. 29, 1919. Serial No. 273,754. 6 Claims. (Cl. 123—173.)



1. In an internal combustion engine a cylinder provided with a cylinder head inclined with reference to the bore of the cylinder, a portion of said cylinder head being water jacketed, in combination with means to deliver the unvolatilized portion of the explosive fluid to the water jacketed surface of the cylinder head.

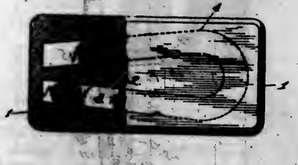
1,393,296. FINISHING OR LUSTRING TEXTILE FABRICS. JOSEPH BOLTON-LOMAX, Furness Vale, near Stockport, England. Filed Apr. 10, 1920. Serial No. 372,866. 3 Claims. (Cl. 26—2.)

1. The process of finishing textile fabrics which consists in passing the same between a plurality of rollers under high pressure and heat and while hot applying thereto a boiling finishing liquor while retaining the fabric under



tension, and winding said fabric into a roll while in hot conditions.

1,393,297. RAZOR-HONE. THOMAS A. MCCULLEY, San Francisco, Calif., assignor of forty-five one-hundredths to Maude B. Deane, San Francisco, Calif. Filed Aug. 16, 1920. Serial No. 403,938. 2 Claims. (Cl. 51—211.)



1. A razor hone having an abrasive body; and a magnet embedded in said body.

1,393,298. STEAM-SEPARATOR. THOMAS H. MCGRAW, Jr., Oakmont, Pa. Filed Jan. 16, 1919. Serial No. 271,896. 3 Claims. (Cl. 183—75.)

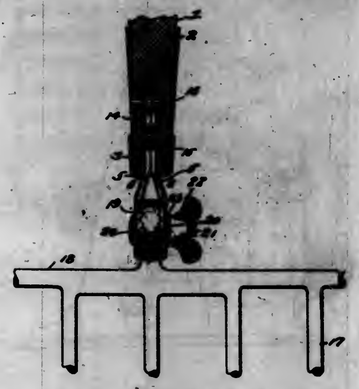


4. A steam separator comprising a number of perforated vertical tubes nested together in abutting relation into parallel longitudinal and lateral rows.

1,393,299. REVERSIBLE FORK AND RAKE. THOMAS JAMES MCINTOSH, Dalzell, S. C. Filed Feb. 9, 1921. Serial No. 443,576. 2 Claims. (Cl. 306—17.)

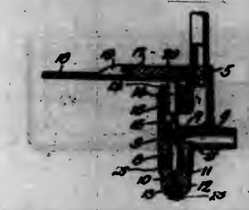
1. In a device of the class described, the combination with a handle, of a cap carried by said handle and provided with an elongated slot having inwardly-extending exten-

sions at opposite sides, a pair of ratchet plates extending through said slot and into said handle and engaged by said



inwardly-extending extension of the cap, and a tool adjustably supported between the ratchet plates.

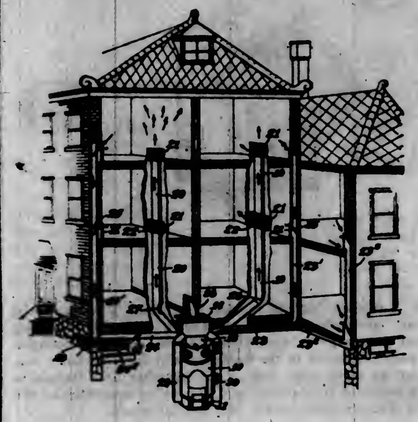
1,393,300. DISPENSING-FAUCET. LAWRENCE E. MCNUTT, Toledo, Ohio, assignor to The Allen Filter Company, Toledo, Ohio. Filed Apr. 9, 1920. Serial No. 372,607. 1 Claim. (Cl. 226—128.)



A faucet of the character described, comprising a nozzle, an arm associated with the nozzle having an annulus formed on its outer end, a valve housing connected to said nozzle having inlet and discharge ports therein, a wall formed in said housing having a port therein and positioned between said inlet and discharge ports, a spring pressed valve in the housing normally engaged over the port in said wall, a pin slidable in the housing having one end engaged with the valve and its other end extended from the housing for a distance and engaged by the arm whereby to be operated thereby, and adjustable means in the housing for regulating movement of said valve by said pin.

1,393,301. HOT-AIR HEATING SYSTEM. CHARLES MCVEETY, Cheltenham, Pa. Filed Feb. 24, 1921. Serial No. 447,385. 1 Claim. (Cl. 237—48.)

In a hot air heating system for buildings, the combination of an air recirculating and a pipeless system, comprising a furnace, having an outer casing, an inner casing and an air thoroughfare therebetween, means forming a vertical warm air conduit therefrom, a register directly above said conduit, means forming a cool air conduit about said warm air conduit, warm air pipes extending laterally and then vertically from said furnace through the partition walls of the building, cool air ducts paralleling the outer casing of said furnace and in spaced relation thereto, connections between said ducts and the base of said furnace and with the cool air conduit from the said register, whereby cool air is admitted to said thoroughfare, extensions to said ducts extending laterally and then vertically through the partition walls of the building, means to admit air from the floor levels of the rooms in said buildings and from the outside thereof, to said exten-



sions whereby the cool air descends through said ducts to said thoroughfare and is heated therein by radiation from the inner casing of said furnace and ascends through the said hot air pipes and the conduit from said furnace and means to regulate the direction and volume of the flow of the ascending warm air, substantially as described.

1,393,302. COLLAPSIBLE RIM. WALTER E. MARQUART, San Francisco, Calif. Filed Dec. 27, 1919. Serial No. 347,728. 2 Claims. (Cl. 301—32.)



1. A vehicle wheel rim having a segment cut therefrom, one end of said segment pierced with a hole and one boundary of said hole formed as an abutment, the opposite end of said segment formed to engage a substantially similar abutment formed in a coöperating link, a coöperating link having an abutment formed on each end, and adapted to coöperate with the segment and with the rim, the ends of the link fitting within a recess formed in the body of the rim and the body of the segment, and retaining means comprising hinge members having portions to engage the link ends and segment and formed to lie flat upon the rim, said means securing the alinement of the abutments.

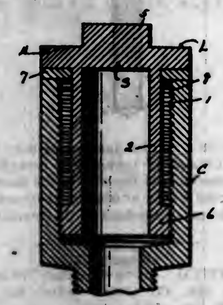
1,393,303. AUTOMATIC WATERING-BOWL OR DRINKING-FOUNTAIN. WILLIAM L. MARTIN, Harvard, Ill. Filed Dec. 1, 1920. Serial No. 427,468. 7 Claims. (Cl. 119—80.)

1. A device of the character described having in combination a bowl provided with hollow, cylindrical, longitudinal edges; a supporting frame for said bowl having perforate lugs or eyes, depending therefrom spaced apart



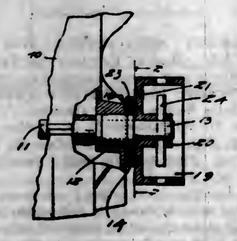
to admit the cylindrical edges and rods passing through the cylinders and respective eyes to hold the bowl in place.

1,393,304. GREASE-CUP. JACOB H. MILLER, Cresson, Pa. Filed Jan. 29, 1921. Serial No. 441,015. 1 Claim. (Cl. 184—38.)



In combination with a grease cup having its inner wall threaded and provided at its outer end with an inwardly directed stop shoulder, a lid for said cup including a tubular body extending within the cup, the inserted end of the body having an outstanding flange in threaded engagement with the internal threads of the cup, the inserted end of the tubular body being open, and a wall of said body being provided with a slot extending longitudinally thereof, the outer end portion of the lid being provided with a permanent flange coacting with the cup to limit the movement of the lid inwardly of the cup.

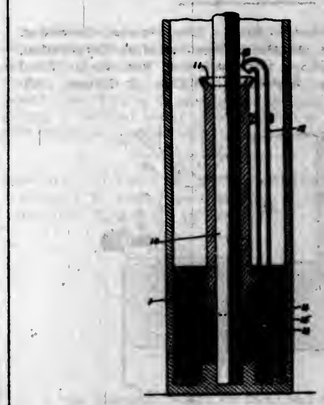
1,393,305. THRUST-BEARING FOR FORD MOTOR-SHAFTS. JOHN C. MULLINS, Jr., Coeburn, Va., assignor of one-half to Charles O. Ramsey, Coeburn, Va., and one-fourth to Isaac N. Kelley, Big Stone Gap, Va. Filed Sept. 24, 1919, Serial No. 325,918. Renewed Jan. 21, 1921. Serial No. 439,051. 2 Claims. (Cl. 64—49.)



1. The combination with the timing gear housing and motor shaft of a Ford motor, the former of which has a

series of connecting bolts and the forward end of which motor shaft projects slightly beyond the timing gear housing, of a bearing plate disposed on the shaft and secured to the timing gear housing by means of the said bolts of the latter, a lower fan belt pulley secured upon the projecting end of the shaft and having its inner wall opposing said bearing plate, and anti-friction members between the said pulley wall and the bearing plate, as and for the purpose described.

1,393,306. POWER-HEAD. PHILIP A. MYERS, Ashland, Ohio, assignor to F. E. Myers & Brother, a Copartnership consisting of Francis E. Myers and Philip A. Myers, Ashland, Ohio. Filed Aug. 30, 1920. Serial No. 407,025. 5 Claims. (Cl. 184—27.)



2. In a power head, the combination with a casing adapted to contain a quantity of lubricant, rotatable operating mechanism therein, and a vertical guide within the casing, of a slide mounted on said guide adapted to reciprocate and having means for connection with an apparatus to be operated thereby, an operating connection between said slide and the rotatable actuating mechanism within the casing, and an oil pumping tube connected with said slide and adapted to deliver oil from the casing to the upper end of the slide.

1,393,307. ART OF MAKING TYPE AND TYPE-HOLDERS. CARY A. NEYLAND, Spokane, Wash. Filed Mar. 6, 1921. Serial No. 450,819. 5 Claims. (Cl. 101—398.)



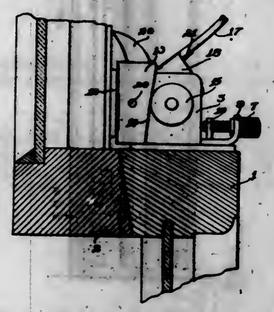
2. The combination in a die of a slotted holder, a rule extended through the slotted holder and conforming to the walls of the slot in the holder, and a pattern frictionally engaging the inner walls of the rule.

1,393,308. ART OF MAKING TYPE AND TYPE-HOLDERS. CARY A. NEYLAND, Spokane, Wash. Filed Mar. 9, 1921. Serial No. 450,820. 2 Claims. (Cl. 101—398.)



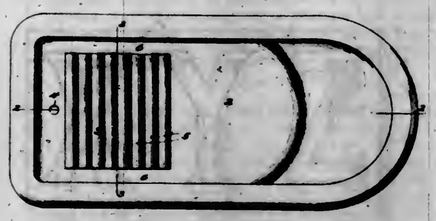
1. The combination in a die of a holder having a slot therein, a rule conforming to the walls of and in frictional contact with said holder in the slot, and a filling of loose material packed in said slot within the rule between the upper and lower faces of said holder.

1,393,309. SASH-HOLDER. EMIL OLSON, Rochester, N. Y., assignor to Olson Manufacturing Corporation, Rochester, N. Y., a Corporation of New York. Filed Nov. 24, 1920. Serial No. 426,286. 2 Claims. (Cl. 292—200.)



1. A sash holder comprising a supporting frame, a wedging member cooperating with said frame to move vertically thereon and also to rock so as to cooperate properly with a flat face of a sash, and a penetrator having its penetrating point lying slightly in rear of the engaging face of the wedging holding member and adapted to swing with said member into engagement with the sash to lock the latter against movement in the direction of opening if the sash is forced.

1,393,310. BATHTUB. ELEANORE L. DEDERICK PALMER, New Brighton, Pa. Filed Sept. 3, 1920. Serial No. 407,990. 3 Claims. (Cl. 4—27.)



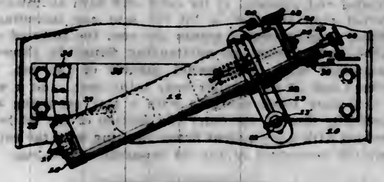
1. A bath tub provided with a seat section and a foot section, transverse corrugations cast integrally in the foot section and extending only part way across the bottom of the tub, and a drainage section connecting the corrugations with the drain pipe of the tub.

1,393,311. METHOD AND MEANS FOR FACILITATING SEALING DEEP WELLS. HARRY C. PENDLETON, Piedmont, Calif. Filed Sept. 1, 1920. Serial No. 407,357. 17 Claims. (Cl. 166—1.)



1. The steps, in a method for sealing deep wells against water, which consist of lowering a frangible container, charged with cement, into the well to the desired level, and then stamping the whole to destroy the container so that its fragments become embedded in the cement.

1,393,312. SWITCH. ARTHUR HENRY PERRY, De Witt, Ark. Filed Apr. 17, 1920. Serial No. 374,615. 4 Claims. (Cl. 200—52.)



1. In a device of the character described, a normally closed circuit, and means for breaking said circuit, including a cylinder pivoted to swing vertically, locking means to maintain the cylinder in any predetermined position, weights freely movable within the cylinder, contact means mounted upon one end of the cylinder, and a spring pressed plunger normally closing said contact means.

1,393,313. SAFETY ATTACHMENT FOR RAILWAY-CAR TRUCKS. CARL L. PITTMAN, De Leon, Tex., assignor, by direct and mesne assignments, to Pittman & Company, De Leon, Tex., a Joint-Stock Association consisting of John Nabors, N. T. Haskins, C. L. Pittman, L. C. Bills, B. Williamson, T. S. Holden, T. I. Fitzgerald, R. F. B. Logan, W. J. Bradley, W. H. Williams, and J. B. Pool. Filed Jan. 19, 1921. Serial No. 438,360. 7 Claims. (Cl. 246—171.)

6. The combination of a railway car truck having side frames provided with downwardly removable journal boxes, a pair of safety shoes extending longitudinally of the truck, each having a solid middle section overlying the adjacent rail and bifurcated ends straddling the wheel, said ends being removably secured to the corresponding ends of the side frames, a pivoted lever extending beneath each journal box, means on the side frames to limit the downward movement of the respective levers and support the wheels when the latter are derailed and the shoes engage the



track, brake valve mechanism carried by the truck, and means connecting the said levers with the brake valve mechanism to set the brakes when the truck is derailed and the journal box or boxes move downward.

1,393,314. GRADOMETER. RUTHERFORD B. POTTER, Brighton, Colo. Filed Feb. 14, 1918. Serial No. 217,090. 9 Claims. (Cl. 33—210.)

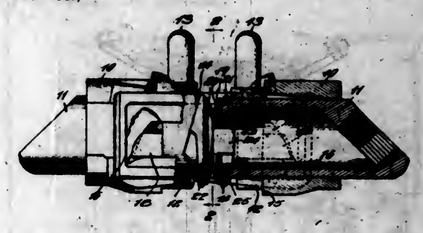


1. The combination with a gradometer, of a mounting for the same comprising an open frame, means for connecting the gradometer casing with said frame to occupy a position with the front face thereof extending substantially flush with the front face of the frame and for adjusting movement of the gradometer casing relatively to the frame, and means for adjusting the gradometer casing relatively to the frame and for maintaining the gradometer casing in adjusted position, said adjusting means being operable from the front of the frame.

1,393,315. ETCHING APPARATUS. ROBERT R. ROBERTSON, Berkeley, Calif. Filed May 11, 1920. Serial No. 380,522. 6 Claims. (Cl. 41—9.)

1. An etching apparatus comprising a receptacle adapted to contain a quantity of etching liquid and provided with an air inlet passage extending downwardly into said receptacle and an outlet adjacent the top of the receptacle, means for supporting a plate to be etched in said receptacle, and rotatable sprayers in said receptacle adapted to discharge sprays of said liquid against said plate and for maintaining a circulation of fresh air through the receptacle.

1,393,316. HOSE-COUPLING GASKET. EDWARD N. ROTH, Chicago, Ill., assignor to Roth Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 18, 1919. Serial No. 283,291. 8 Claims. (Cl. 285—66.)



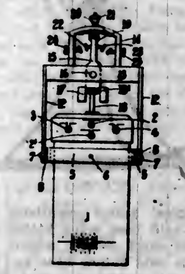
1. The combination with a coupler comprising a head adapted to engage with a mating coupling member, a gasket holding member and means for forcing said gasket holding member against the mating coupling member; of a gasket associated with said gasket holding member comprising a resilient metal element which is stressed when said coupler is engaged with the mating coupler member.

1,393,317. AUTOMATIC TYPE-CABINET. WILLIAM S. RUSSELL, St. Louis, Mo. Filed Feb. 3, 1921. Serial No. 442,072. 2 Claims. (Cl. 211—42.)



1. A type-magazine having its front end cut off at such an angle that the angular front end will stand in a vertical plane when the magazine is inclined downwardly both from its rear end to its front end and laterally from edge to edge, a rectangular stopblock in the said angular front end, and a roller mounted in a recess in said stopblock and projecting into the path of the type as they gravitate to said stop-block.

1,393,318. MEANS FOR INDICATING DIRECTION APPLICABLE FOR USE WITH AIRCRAFT SUCH AS AEROPLANES. THOMAS WILLIAM SAXTON, Barham, England. Filed Oct. 29, 1919. Serial No. 334,351. 4 Claims. (Cl. 200—52.)



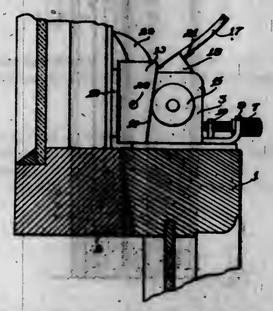
1. In a device of the kind described, a controller, a post thereon, a pair of spaced contacts, a contact plate, a swinging contact maker movable between said contacts and provided with a contact in constant engagement with said plate, a pair of contacts on said contact maker and a guide on said contact maker engaging said post.

1,393,306. ART OF MAKING TYPE AND TYPE-HOLDERS. CARY A. NEYLAND, Spokane, Wash. Filed Mar. 9, 1921. Serial No. 450,629. 2 Claims. (Cl. 101—396.)



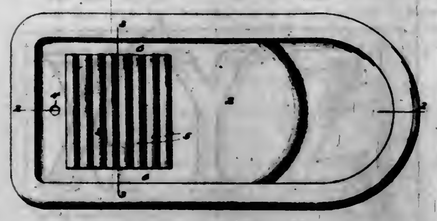
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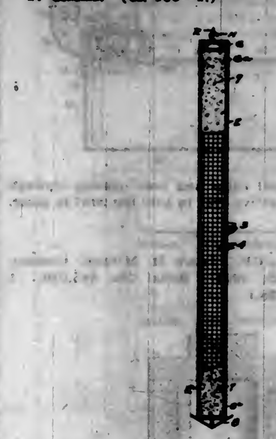
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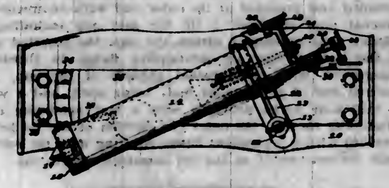
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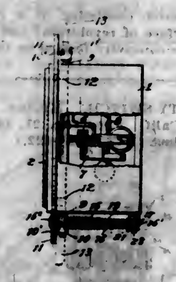
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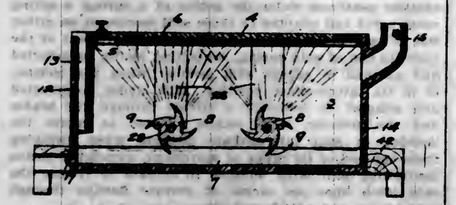
track, brake valve mechanism carried by the truck, and means connecting the said levers with the brake valve mechanism to set the brakes when the truck is derailed and the journal box or boxes move downward.

1,393,314. GRADOMETER. RUTHERFORD B. POTTER, Brighton, Colo. Filed Feb. 14, 1918. Serial No. 217,000. 9 Claims. (Cl. 33—219.)



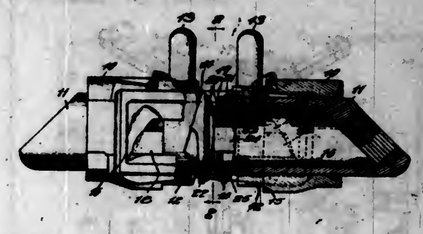
1. The combination with a gradometer, of a mounting for the same comprising an open frame, means for connecting the gradometer casing with said frame to occupy a position with the front face thereof extending substantially flush with the front face of the frame and for adjusting movement of the gradometer casing relatively to the frame, and means for adjusting the gradometer casing relatively to the frame and for maintaining the gradometer casing in adjusted position, said adjusting means being operable from the front of the frame.

1,393,315. ETCHING APPARATUS. ROBERT R. ROBERTSON, Berkeley, Calif. Filed May 11, 1920. Serial No. 380,522. 6 Claims. (Cl. 41—9.)



1. An etching apparatus comprising a receptacle adapted to contain a quantity of etching liquid and provided with an air inlet passage extending downwardly into said receptacle and an outlet adjacent the top of the receptacle, means for supporting a plate to be etched in said receptacle, and rotatable sprayers in said receptacle adapted to discharge sprays of said liquid against said plate and for maintaining a circulation of fresh air through the receptacle.

1,393,316. HOSE-COUPLING GASKET. EDWARD J. NOTH, Chicago, Ill., assignor to Roth Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 18, 1919. Serial No. 283,291. 8 Claims. (Cl. 285—66.)



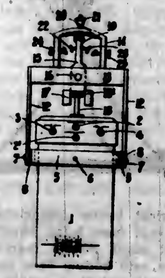
1. The combination with a coupler comprising a head adapted to engage with a mating coupling member, a gasket holding member and means for forcing said gasket holding member against the mating coupling member; of a gasket associated with said gasket holding member comprising a resilient metal element which is stressed when said coupler is engaged with the mating coupler member.

1,393,317. AUTOMATIC TYPE-CABINET. WILLIAM S. RUSSELL, St. Louis, Mo. Filed Feb. 3, 1921. Serial No. 442,072. 2 Claims. (Cl. 211—42.)



1. A type-magazine having its front end cut off at such an angle that the angular front end will stand in a vertical plane when the magazine is inclined downwardly both from its rear end to its front end and laterally from edge to edge, a rectangular stopblock in the said angular front end, and a roller mounted in a recess in said stopblock and projecting into the path of the type as they gravitate to said stop-block.

1,393,318. MEANS FOR INDICATING DIRECTION APPLICABLE FOR USE WITH AIRCRAFT SUCH AS AEROPLANES. THOMAS WILLIAM SAXTON, Barham, England. Filed Oct. 29, 1919. Serial No. 334,351. 4 Claims. (Cl. 200—52.)



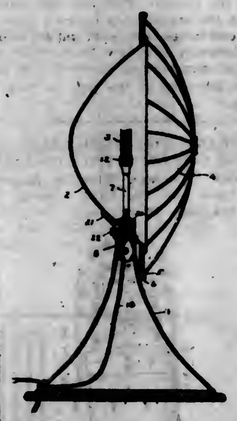
1. In a device of the kind described, a controller, a post thereon, a pair of spaced contacts, a contact plate, a swinging contact maker movable between said contacts and provided with a contact in constant engagement with said plate, a pair of contacts on said contact maker and a guide on said contact maker engaging said post.

1,393,319. COMBINED TIRE-CARRIER AND RIM SPREADER AND CONSTRICTOR. OSCAR CHARLES SCHLEUNES, Hereford, Tex. Filed Aug. 30, 1920. Serial No. 406,781. 3 Claims. (Cl. 224—29.)



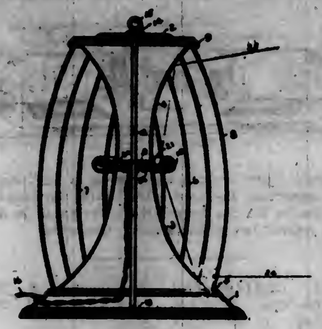
1. A device of the character described comprising, a casing, arms extending radially from the casing, rim embracing members slidable on the arms, a cog wheel rotatable within the casing, rods connected eccentrically to the cog wheel and pivotally connected to said members, a worm meshing with the cog wheel and journaled in the casing, a ratchet wheel rotatable with the worm, an actuating lever pivotally mounted on the ratchet wheel, pawls carried by the lever and engageable with the ratchet wheel, means for moving either of said pawls to engaging or disengaging position with respect to the ratchet wheel, and means for locking said lever to said casing.

1,393,320. ADJUSTABLE ELECTRIC HEATER. MILTON H. SHOENBERG and GEORGE J. HENRY, San Francisco, Calif. Filed Oct. 1, 1919. Serial No. 327,710. 4 Claims. (Cl. 219—34.)



1. In an electrical heater comprising a reflector and a base member, said base being hollow; a swivel joint having horisontal pivot wheels therein mounted about an opening to the said hollow base and having a linear opening through said swivel, a hollow stem mounted on the swivel and carrying also said reflector and an electrical resistance heat radiating element mounted on the other end of the stem and substantially about the focus of the reflector, an electrical circuit connection through the base the swivel and the stem adapted to energise the said element.

1,393,321. RADIANT HEATER. MILTON H. SHOENBERG and GEORGE J. HENRY, San Francisco, Calif. Filed Oct. 1, 1919. Serial No. 327,711. 17 Claims. (Cl. 219—33.)



1. A radiant heater consisting of a reflector formed with a concave surface of revolution; and a heat element disposed within the concavity formed by the reflector.

1,393,322. SAFETY-SWITCH. MILTON H. SHOENBERG, San Francisco, Calif. Filed Dec. 27, 1919. Serial No. 347,732. 4 Claims. (Cl. 200—122.)

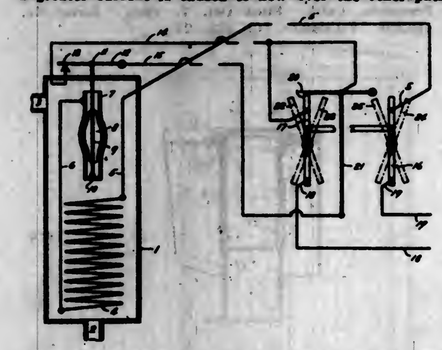


1. In an electrical safety switch, an oscillating member adapted to snap about a central pivot into each of two extreme positions under the action of a spring, a spring constructed and adapted to cause said movement on either side of said pivotal means on a reverse movement of the opposite end of said spring, contacting blades constructed and adapted to engage said member when the member is in its intermediate position, said blades constructed and adapted to complete a circuit through the blades and the member, latch means adapted to retain the member in said intermediate position when swinging from one end of its range of movement, associated means controlling said latch adapted to actuate to release the said latch upon an excess of current flowing through said blades and switch member.

1,393,323. METHOD OF ELECTRIC THERMAL CONTROL. MILTON H. SHOENBERG, San Francisco, Calif. Filed Dec. 27, 1919. Serial No. 347,735. 2 Claims. (Cl. 219—20.)

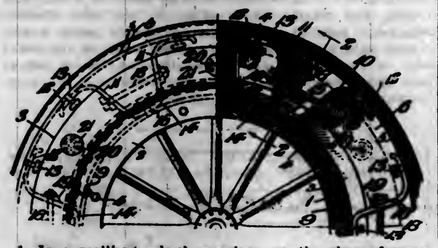
1. A method of electric thermal control consisting of energising a thermal device through two parallel paths and a return, one of said paths adapted to be interrupted

on an excess of heat in said terminal device whereby a greater current is caused to flow over the other path



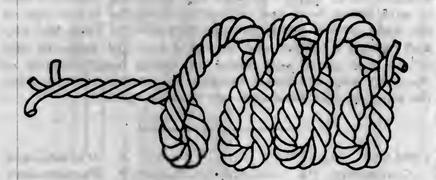
to thereby cause in a remote device in said other path actuation to release a spring actuated switch to open the energising circuit.

1,393,324. RESILIENT WHEEL. CLIFFORD SMITH, Philadelphia, Pa. Filed Sept. 22, 1920. Serial No. 411,971. 2 Claims. (Cl. 152—88.)



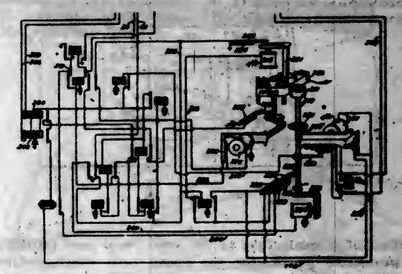
1. In a resilient wheel, members on the circumference thereof, consisting of inner and outer channel-shaped rims, the outer rim being placed laterally within the inner rim and being movable relatively thereto radially and circumferentially, resilient means interposed between the peripheral wall of the outer rim and the inner rim of the wheel, said resilient means consisting of a spring substantially U-shaped, its limbs being secured to said peripheral wall and its crown being secured to said inner rim, and a bolt-like member adapted to pass freely through slots in said limbs and having its opposite members engaging the outer faces of the latter to prevent spreading thereof.

1,393,325. ELECTRIC HEATING ELEMENT. LUTHER D. SMITH, Toledo, Ohio. Filed Feb. 24, 1919. Serial No. 278,899. 7 Claims. (Cl. 219—63.)



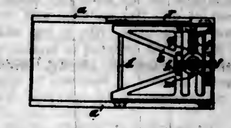
1. An electric resistance heating element composed of a plurality of conductors, combined side by side in intimate contact and having different physical properties.

1,393,326. TELEPHONE SYSTEM. ARTHUR B. STRONG, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 26, 1917. Serial No. 182,967. 9 Claims. (Cl. 179—50.)



1. In a telephone system, an operator's position, an incoming line leading to said position, a plurality of out-going lines leading from said position, an indicating device at said position controllable from a distant point for indicating the designation of a wanted out-going line, and continuously movable means individual to said incoming line for operating said device to indicate the designation of said incoming line.

1,393,327. APPARATUS FOR DISPLAYING GARMENTS AND LIKE ARTICLES. ARTHUR WALTER TAYLOR, Manchester, England. Filed Mar. 2, 1920. Serial No. 362,652. 1 Claim. (Cl. 211—16.)

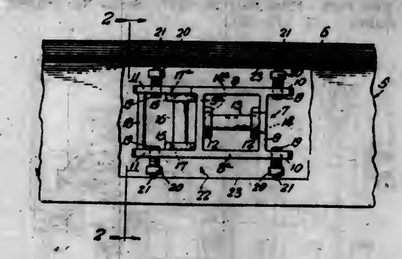


The combination, with a show case, of guide rails arranged in the show case, a frame provided with rollers which run on the said guide rails, a vertical standard journaled in the frame and provided with supports for articles, a notched disk secured to the standard, a spring-pressed slide slidable in the frame crosswise of the rails and arranged above the said rollers and the tops of the rails, said slide being adapted to engage with the notched disk, and a stop bar secured to the top of one of the said rails opposite the end of the slide and extending in the show case, said stop bar operating to prevent the slide from being retracted to free the notched disk and standard until after the frame has been withdrawn from the show case and the slide has been moved past the outer end of the stop bar.

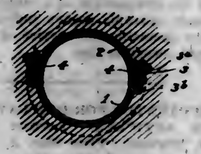
1,393,328. LEVEL DEVICE. CHRISTOPHER F. THULLEN, Chicago, Ill., assignor to Fred Ohde, Christopher F. Thullen, and August A. F. Dreyer, Chicago, Ill., Copartners doing business as On-The-Dot-Level Device. Filed Mar. 25, 1920. Serial No. 368,679. 1 Claim. (Cl. 33—214.)

A level device of the kind described, comprising an integral frame consisting of a pair of parallel long bars, and a pair of parallel shorter bars arranged transversely of and connecting said long bars together at points intermediate their ends, and a post connecting the pair of long bars together at one end of the frame, each pair of bars being provided with opposed seats to receive a spirit

tube, one of said seats of each pair of bars communicating with an opening in the bar having such seat for the insertion of a spirit tube in the seats, said post providing a protective guard, for the spirit tube which extends parallel therewith.



1,393,329. DRAIN-TILE. EMORY E. TROWBRIDGE, Kansas City, Kans. Filed Apr. 5, 1920. Serial No. 371,272. 8 Claims. (Cl. 61—11.)



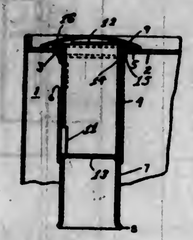
1. In drain tiles, the combination with a pair of abutting tubular members, of an enlarged flange portion secured to the end of one tile member and fitting around the abutting end of the other tile, a cup shaped portion carried by said flange and adapted to collect the moisture from the subsoil and permit the seepage through the tiles into the system.

1,393,330. ELECTRICAL INSULATOR. WALTER J. WELCH and ATLEE H. TRACY, Chicago, Ill., assignors to H. M. Byllesby & Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 17, 1919. Serial No. 290,851. 1 Claim. (Cl. 287—113.)



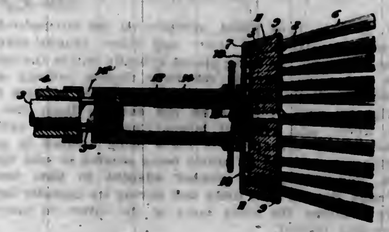
A coupling comprising a cylindrical shell of even diameter throughout its length and consisting of two similar longitudinal segments, said shell being provided with a bore adapted to receive the ends of the parts to be connected, said bore being provided with shoulders extending entirely around the shell and constructed and arranged to interlock with corresponding shoulders on said parts to be connected, a cylindrical ferrule fitted to the exterior of said coupling shell and having a flange at one end thereof of a width to extend over an end of said coupling shell and leave an opening sufficiently large to pass over the shouldered end of either of the members to be connected, and lugs on the opposite end of the ferrule adapted to be bent over the other end of the coupling shell to secure the ferrule in engagement with the shell and said shell in engagement with the coupled parts.

1,393,331. COMBINED SPOUT AND VALVE FOR LIQUID-CONTAINERS. WALTER W. WILSON, San Francisco, Calif. Filed Oct. 7, 1920. Serial No. 415,851. 2 Claims. (Cl. 221—27.)



1. In combination with a liquid container having a wall provided with an opening therein, of a tubular casing secured to said wall and extending through said opening into the container, said tubular casing having an opening in one side thereof, a tubular spout member rotatably and longitudinally movably mounted within said casing and having an opening in one side thereof adapted to register with the opening in said casing, a wall closing said tubular spout at a point adjacent the lower edge of the opening and spaced from the lower end of said spout member and means for preventing the withdrawal of the spout from the casing.

1,393,332. ROTARY BRUSH. HUGO WIMMER, Bath, Me. Filed Oct. 18, 1920. Serial No. 417,787. 3 Claims. (Cl. 15—37.)

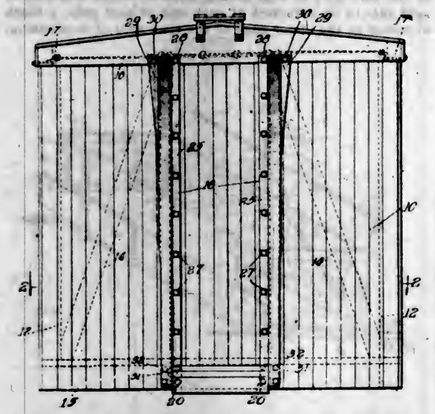


2. A rotary brush comprising a stub shaft, a tapered cup-shaped brush cap having the base thereof rigidly secured to one end of said shaft, a tapered brush head adapted to fit tightly in said cap, brushing elements held to said brush head and projecting from the larger end of the head, and a screw passing through the head and cap and having its inner end threaded into the adjacent end of the stub shaft, said screw extending longitudinally of the shaft and detachably holding the head in the cap with the sides of said head and cap in close contact.

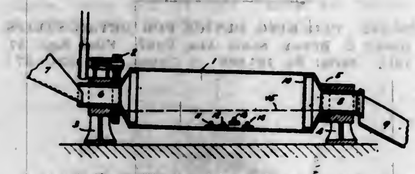
1,393,333. RAILWAY-CAR. FRANK W. WOLFF, New Kensington, Pa., assignor to Walter P. Murphy, New York, N. Y. Filed Apr. 29, 1919. Serial No. 293,405. 14 Claims. (Cl. 105—411.)

1. A metal reinforcement for the wooden end wall of a railway car, comprising a pair of substantially upright

reinforcing members of maximum depth and minimum width at the bottom and maximum width and minimum depth at the top, and means for anchoring said members to the under frame and roof frame of the car.

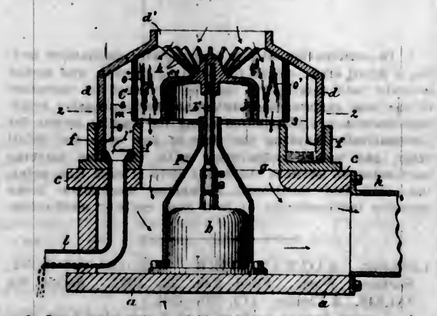


1,393,334. GRINDING-MILL. LLEWELLYN T. BACHMAN, Santa Cruz, Calif., assignor to Santa Cruz Portland Cement Co., San Francisco, Calif. Filed Feb. 7, 1920. Serial No. 356,962. 2 Claims. (Cl. 83—9.)



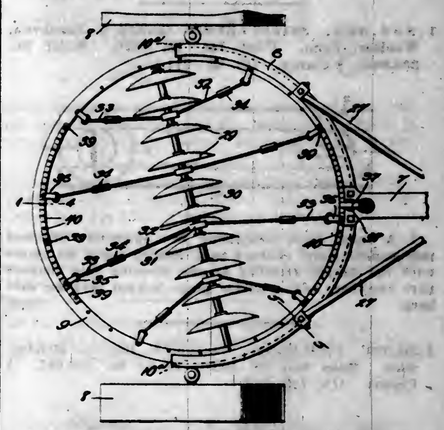
1. A grinding mill comprising a drum adapted to rotate and within which the material to be ground is subjected to the action of grinding bodies, and grinding bodies consisting of a substantially equal number of approximately spherical members and short cylindrical members which are of softer material and of greater specific gravity than said spherical members.

1,393,335. PROCESS AND APPARATUS FOR SEPARATING MOISTURE FROM GAS. WILLIAM J. BALDWIN, Brooklyn, N. Y. Filed Mar. 23, 1921. Serial No. 454,683. 12 Claims. (Cl. 183—4.)



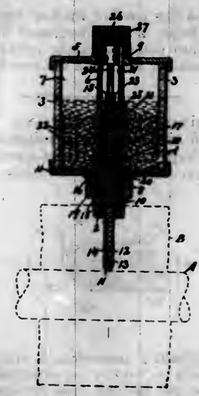
1. In a gas purifier, a hollow carrier having hygrometric material fixed upon its wall, means for introducing the gas within the carrier, and means for rotating the carrier with the material to propel the gas against the said material by centrifugal force.

1,393,336. DISK HARROW OR TERRACER. JONATHAN G. BARNES, Laredo, Tex. Filed July 10, 1920. Serial No. 395,296. 3 Claims. (Cl. 55—73.)



3. An agricultural machine having a main frame of substantially semi-circular shape, a circular frame revolving within the main frame, registering slots through the frames and fastening means extending through the slots, said means having friction rollers engaging the inner surface of the circular frame permitting free revolving movement thereof.

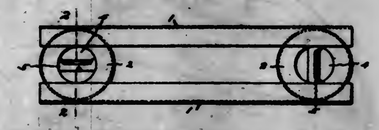
1,393,337. LUBRICATOR. WILLIAM J. BEAGLE, Syracuse, N. Y., assignor of one-half to John M. Stever, Syracuse, N. Y. Filed Nov. 6, 1920. Serial No. 422,197. 3 Claims. (Cl. 184—75.)



3. In a lubricator of the character described, the combination of a container having its inner and outer end heads provided with openings therethrough, the inner head having means for attachment to one of the parts to be lubricated, a tubular member extending into said openings and connecting said heads, an oil feeding-tube adjustable endwise in the inner opening and extending to a point in proximity to the bearing to be lubricated, said

oil feeding-tube also extending outwardly into the tube which connects the heads, means movable in the outer end of the head-connecting tube and engaged with the outer end of the oil-feeding-tube for adjusting the latter axially, and a screw cap engaging the outer end of the head-connecting tube and normally covering the outer end of the adjusting means for the oil-feeding-tube.

1,393,338. SPIRIT-LEVEL. GEORGE Q. BEDORTHA, Windsor, Conn. Filed Jan. 20, 1920. Serial No. 352,664. 8 Claims. (Cl. 33—211.)



1. A spirit level comprising two oppositely disposed, independent metal channel bars, flanged metal tie plates with the flanges attached to and securing said channel bars together, and a bubble glass located between said bars.

1,393,339. FISH-POND. ORLANDO F. BENTON, Mendon, Ohio. Filed May 18, 1921. Serial No. 470,687. 4 Claims. (Cl. 119—5.)



1. An extended fish pond of shallow depth, and a reservoir of greater depth, with underground ducts connecting the pond at spaced points with the reservoir at different heights, and means for supplying the reservoir with water.

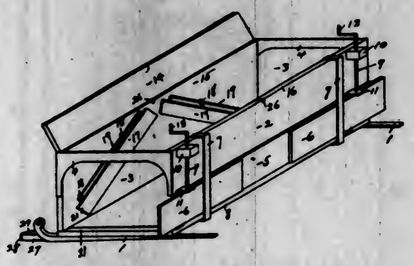
1,393,340. OPHTHALMIC MOUNTING. FREDERICK R. BISHOP, North Attleboro, Mass., assignor to The Bishop Company, a Corporation of Massachusetts. Filed Apr. 6, 1921. Serial No. 459,190. 3 Claims. (Cl. 88—42.)



1. In an ophthalmic mounting, a rim provided with an oblong opening, a bridge, an attaching plate on the bridge seated in the opening, and diverging lips on the plate engaging the rim.

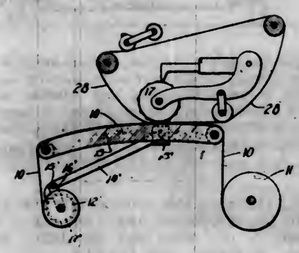
1,393,341. ROAD-BUILDING MACHINE. THOMAS F. BOWER, Farmdale, Ohio. Filed Feb. 12, 1921. Serial No. 444,349. 2 Claims. (Cl. 94—44.)

1. In a device of the class described, a rectangular hopper shaped casing provided with open ends and a closed bottom, runners located underneath the outer ends of said rectangular casing, a gate secured at the lower side of the rear wall of said casing, slidable wings attached to said gate, a lip attached at each end of said gate, a block attached at the upper edge of the rear wall of said casing,



a screw operating in internally threaded openings of said blocks, slidable inclined planes secured to the front wall of said casing, a deflecting board secured at the upper edge of the front wall of said casing, a bracing member secured to the upper ends of said casing, substantially as described for the purpose set forth.

1,393,342. CLOCKING DEVICE FOR DETAIL-STRIPS. HARRY C. BURKE, Santa Ana, Calif. Filed Sept. 17, 1917. Serial No. 191,688. 2 Claims. (Cl. 234—57.)

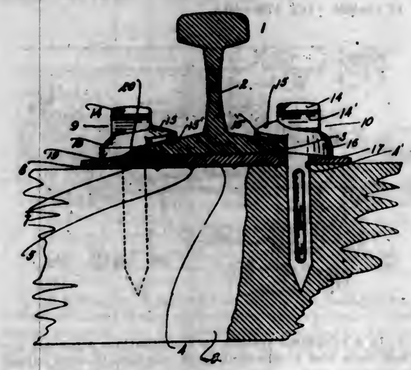


1. In combination with a cash register mechanism having a detail strip, means for printing thereon, and means whereby said detail strip may be advanced by operation of the cash register mechanism so that successive printings thereon are distributed along its length; means for automatically marking the time of day upon the detail strip, and means cooperating with the time marking mechanism to advance the detail strip at each time printing, said last mentioned advancing mechanism being operable independently of said cash register mechanism.

1,393,343. RAILWAY-SPIKE. WILLIAM C. CLARK, Spokane, Wash. Filed Feb. 26, 1921. Serial No. 447,948. 2 Claims. (Cl. 238—366.)

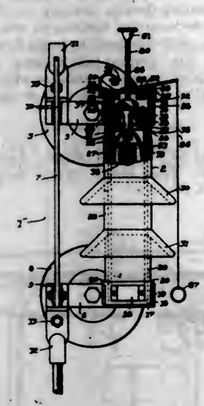
1. A spike having a shank, and a retaining head comprising an inwardly projecting rail lug and an outwardly

projecting plate flange, and said head projecting bodily beyond the cross area of the shank, the under portion of



the plate flange having angular faces for contact with a tie plate.

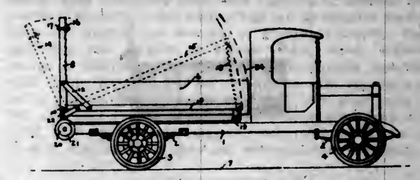
1,393,344. METHOD OF AND MEANS FOR SWITCHING. NICHOLAS J. CONRAD, Chicago, Ill., assignor to Schweitzer & Conrad, Chicago, Ill., a Corporation of Illinois. Filed Sept. 24, 1917. Serial No. 192,870. 19 Claims. (Cl. 175—294.)



17. In combination, a high tension line, an air brake switch permanently connected in the line and a liquid quenched switch in parallel with the air brake switch and automatically opened upon operation of said air brake switch.

1,393,345. TRUCK-LOADING DEVICE. WILLIAM J. CONWAY, San Francisco, Calif. Filed Aug. 27, 1920. Serial No. 406,350. 2 Claims. (Cl. 214—77.)

1. In a loading device for trucks and the like, a vertically disposed lever pivoted at its lower end on each side of said truck, a truss between said levers, a horizontally disposed member on each side and carried by the aforesaid pivots and connected as a bell crank with the corresponding lever, operating means for said members whereby the levers are rotated about their pivots through an



angular movement whereby a load suspended from said truss may be raised or lowered, wherein the truss is vertically adjustable to various positions on the levers.

1,393,346. INSULATING COMPOSITION OF MATTER. FRANK J. COOK, Cleveland, Ohio. Filed Aug. 19, 1920. Serial No. 404,650. 2 Claims. (Cl. 106—14.)

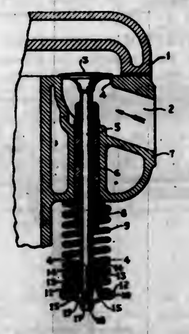
1. A composition of matter comprising substantially ten parts of pulverized soapstone, one part of feldspar, one part of flint, one-half part of ball clay, to which is added a binder.

1,393,347. SPRING-SUPPORT FOR LOOMS. SAMUEL H. COOKE and JOHN O. MILLER, Greenville, S. C. Filed Mar. 22, 1921. Serial No. 454,598. 6 Claims. (Cl. 139—73.)



1. In a loom, in combination, a loom frame having front and rear rails, a support, the said support being formed of relatively adjustable sections and secured to the said rails, and means on said support for attaching springs thereto.

1,393,348. VALVE ATTACHMENT. GEORGE R. DAVENPORT, Detroit, Mich., assignor to The Studebaker Corporation, a Corporation of New Jersey. Filed Aug. 8, 1919. Serial No. 316,016. 10 Claims. (Cl. 251—144.)



1. In combination with a valve-stem, a washer surrounding the same, and a pair of relatively movable spring clips for securing the washer to the valve-stem.

1,393,349. AUTOMOBILE-WINDLASS. MARION A. DAVIS, Sherman, Tex. Filed Mar. 9, 1921. Serial No. 450,907. 1 Claim. (Cl. 242—95.)

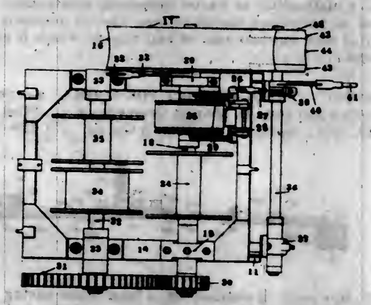
The combination in an automobile windlass of a horizontally disposed tubular section right and left hand threaded

interiorly at its respective ends adapted for engagement with an annular flange exteriorly threaded and outwardly



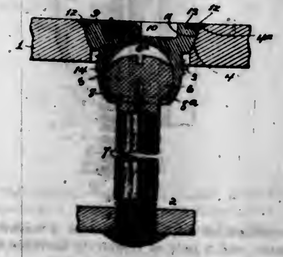
extending from the hub flange of a wheel at either side of a car.

1,393,350. WELL-DRILLING MACHINE. EDWARD L. DILLON, St. Louis, Mo., assignor to Lorenzo Norvell, trustee, St. Louis, Mo. Filed Jan. 2, 1919. Serial No. 269,188. 2 Claims. (Cl. 74—26.)



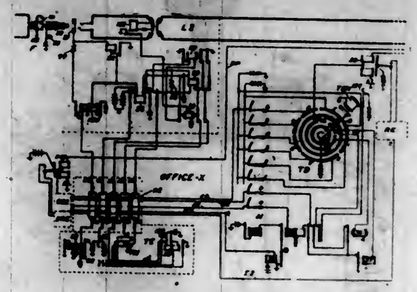
1. In a well drilling machine, the combination with a band wheel having a convex tread adapted to contact with a flat driving belt, of a friction wheel having a concave tread, means for moving said wheels into and out of contact, a reversing wheel having a part of its tread concave and another part convex, and means for moving said reversing wheel into and out of contact with said band and friction wheels.

1,393,351. STAYBOLT STRUCTURE. ETHAN I. DODDS, Pittsburgh, Pa., assignor to Flannery Bolt Company, Pittsburgh, Pa. Filed Jan. 20, 1920. Serial No. 352,695. 6 Claims. (Cl. 85—1.5.)



1. In a staybolt structure, a bearing member having an internal seat for the head of a staybolt, said bearing member having an annular unthreaded outer end portion and having its inner end portion rounded lengthwise of the member, said bearing member also having an exterior threaded portion between said annular unthreaded outer end portion and the said rounded portion.

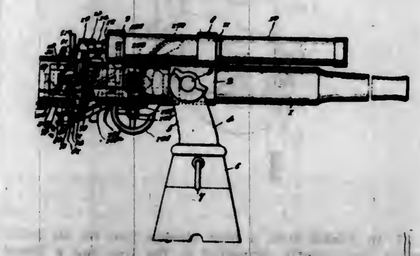
1,393,352. TELEPHONE SYSTEM. WILLIAM L. DOBON, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 22, 1919. Serial No. 325,518. 17 Claims. (Cl. 179—50.)



1. In a telephone system, in combination, a plurality of trunk lines and a signaling path common thereto extending between two stations, means at one station for transmitting over the signaling path code signals individual to the different trunk lines, each code signal comprising a plurality of current impulses, means common to the trunk lines for determining the character of some of the impulses of each code signal, and means individual to each trunk line and controlled thereby for determining the character of another of the impulses of each code signal.

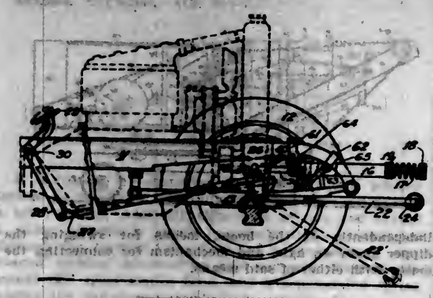
16. In a signaling system, in combination, a plurality of trunks extending between two stations, a signaling path common to said trunks, a rotatable sending distributer at one station, a rotatable receiving distributer at the other station, and signaling devices common to said trunks and associated with the receiving distributer and selectively responsive to like predetermined permutations of impulses transmitted by the sending distributer depending on whether the distributers are rotating in unison or whether the receiving distributer is leading or lagging behind the sending distributer.

1,393,353. SEMI-AUTOMATIC GUN. LOUIS L. DRIGGS, New York, N. Y. Filed June 9, 1917. Serial No. 173,808. 7 Claims. (Cl. 89—4.)



1. The combination with a gun mount provided with a yoke swiveled thereto and inclined rearward therefrom, of a slide trunnioned in said yoke, a shoulder bar connected to said slide, a gun body slidably mounted in said slide and provided with an upwardly projecting lug near the breech thereof, a recoil cylinder secured to said slide above said gun body, and a recoil cylinder piston, and piston rod, the said piston rod having its outer end secured to said lug, a segmental rack fast to said slide provided with worm teeth, a bracket carried by said yoke, a worm journaled in said bracket and engaging said rack teeth, and means for turning said worm, substantially as described.

1,393,354. SPRING-BUMPER. HARRY W. DYER, East Orange, N. J. Filed Oct. 2, 1919. Serial No. 327,696. 10 Claims. (Cl. 293—67.)



1. In a bumper of the class described the combination of a semi-elliptical spring supported at three points in a horizontal position, one of said supports applied at the middle and one at each end of said spring and all of said supports being yieldable on compression.

1,393,355. COATED ARTICLE. JOHN CHARLES EMHARDT, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Feb. 25, 1918. Serial No. 219,091. 14 Claims. (Cl. 91—68.)



11. An article having a coating comprising a layer of cellulose ester coating composition, and a covering layer of a composition containing a substance which will absorb heat by chemical change when subjected to heat or fire.

1,393,356. FLUER AND METHOD OF MAKING THE SAME. EDWARD B. FEASTER, Boston, Mass. Filed Sept. 7, 1920. Serial No. 408,557. 17 Claims. (Cl. 118—57.)



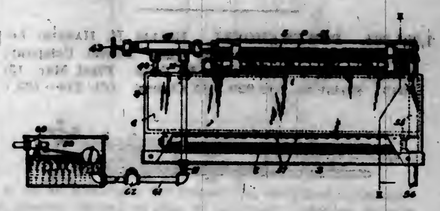
1. In a flier, in combination, a solid metal member comprising an arm having a substantially straight lower portion and a curved upper portion, a supporting member attended from said curved upper portion and a shorter curved arm extending from said supporting member and provided at its free end with a lug and having its portion near said supporting member of greater thickness than said free end portion, a hollow sheet metal member having a substantially straight lower portion provided with a lug coöperating with the lug on said shorter arm and a curved upper portion welded to said short arm, a hub extended through said supporting member and provided with an upwardly tapering bore, and a key carried by said supporting member and extended into said hub.

1,393,357. ELECTRIC LIGHTING APPARATUS. JOHN H. GEORGE, Bridgeport, Conn., assignor to Ellsworth A. Hawthorne, Bridgeport, Conn. Original application filed Mar. 16, 1916, Serial No. 222,975. Divided and this application filed Nov. 28, 1916. Serial No. 263,904. 7 Claims. (Cl. 240—44.)



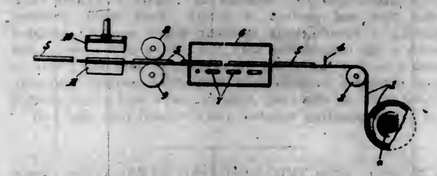
1. In a lighting apparatus, the combination of a casing, a concave reflector, a lamp associated therewith, and lamp-focusing and controlling means including a lamp-carrier mounted to move axially in said casing, a lamp-controller projecting laterally through said casing, and means to hold said controller against movement with said carrier axially of said casing.

1,393,358. COMBINED BURNER AND GAS-GENERATOR UNIT. ALBERT E. GRANT, New York, N. Y. Filed Aug. 21, 1919. Serial No. 318,991. Renewed Jan. 10, 1921. Serial No. 436,392. 7 Claims. (Cl. 158—56.)



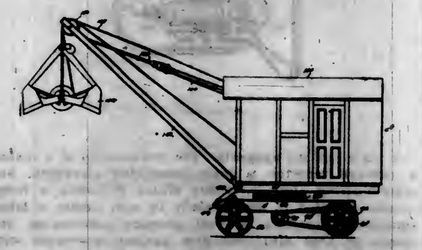
1. A heating unit adapted to heat the fire chamber of a furnace or boiler, comprising the combination of a flame forming burner, injector means in advance of said burner and adapted to mix oil and steam, an oil supply having a constant level below said injector means, a steam generator, independent of the furnace or boiler, heated by said burner flame and adapted to draw up automatically said oil to said injector, vaporize it and feed it to said burner, means for maintaining a substantially constant steam flow from said generator to said injector while said burner is in operation, and means for stopping the flow of steam to the injector when the burner flame ceases.

1,393,359. PANEL. HARRY J. HAON, Newburgh, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed May 1, 1919. Serial No. 294,023. 9 Claims. (Cl. 296—44.)



1. A door panel blank prepared by applying an adhesive material and then a separate plate of cardboard to an advancing web of artificial leather, partially drying, then calendering and then cutting to the approximate size of said plate.

1,393,360. SPRING-TRUCK. HOLLIS H. HARRIS, Lorain, Ohio, assignor to The Thew Shovel Company, Lorain, Ohio, a Corporation of Ohio. Filed Mar. 14, 1919. Serial No. 282,550. 13 Claims. (Cl. 280—106.5.)



1. In a truck, the combination of longitudinal structural side members, an intermediate longitudinal member between the side members, transverse castings fitted between the intermediate member and the side members, axles below said transverse members, wheels on the axles, and springs seated on the axles and fitted to the side and transverse members.

1,393,361. POWER-SHOVEL. HOLLIS H. HARRIS, Lorain, Ohio, assignor to The Thew Shovel Company, Lorain, Ohio, a Corporation of Ohio. Filed Mar. 15, 1919. Serial No. 282,929. 15 Claims. (Cl. 214—135.)



1. In a boom construction, the combination of a pair of structural side frame members, a plurality of wood blocks secured side by side between the side frame members adjacent each end thereof leaving an intermediate opening, guides adapted to embrace a dipper stick, and mounted on the structural side members.

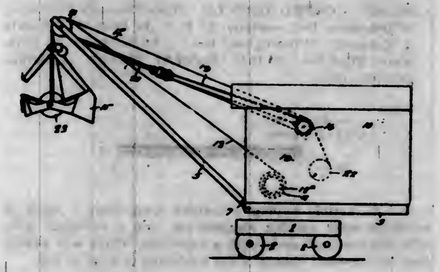
1,393,362. POWER-SHOVEL. HOLLIS H. HARRIS, Lorain, Ohio, assignor to The Thew Shovel Company, Lorain, Ohio, a Corporation of Ohio. Filed Mar. 15, 1919. Serial No. 282,930. 9 Claims. (Cl. 214—138.)

1. The combination, with a power shovel, having a frame, an inclined boom adjustably supported thereby with its upper end at the approximate level of the upper portion of the frame, and a dipper, of a motor, means for moving the dipper toward and away from the frame



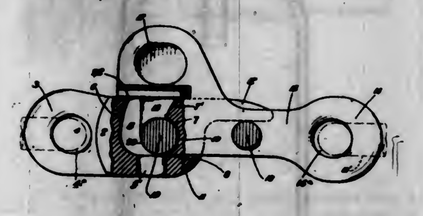
independently of the boom, means for swinging the dipper about an axis, and mechanism for connecting the motor with either of said means.

1,393,363. CONVERTIBLE EXCAVATING-MACHINE. HOLLIS H. HARRIS, Lorain, Ohio, assignor, by mesne assignments, to The Thew Shovel Company, Lorain, Ohio, a Corporation of Ohio. Filed Mar. 17, 1919. Serial No. 282,999. 9 Claims. (Cl. 214—132.)



1. In an excavating machine, alined drums, means for rotating the drums independently in opposite directions, and means for connecting the drums together whereby they may be rotated as a unit.

1,393,364. CAR-COUPLING. WILLIAM ALLEN HAYWORTH, Universal, Ind. Filed Dec. 18, 1920. Serial No. 431,649. 8 Claims. (Cl. 213—45.)



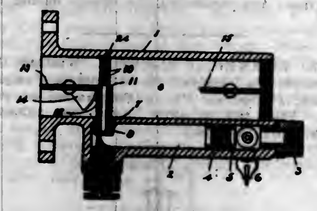
1. A car coupler comprising in combination separable links arranged to coact in interlocking engagement one with the other and having means for attachment thereof to the cars, one link having a cavity therein and having fingers on one end thereof, and the other link having projecting pins on opposite sides thereof, arranged to enter said cavity and other projecting pins arranged to engage the under surface of said fingers in securing the links in interlocking engagement.

1,393,365. TOOL FOR REMOVING CORES AND VALVE-CORE STOOLS FROM TIRE-VALVES. JOHN HEIL, Melrose Park, Ill. Filed Aug. 21, 1920. Serial No. 405,154. 3 Claims. (Cl. 81—3.)



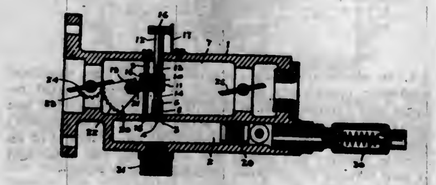
1. A tool of the character described having a portion formed to provide a longitudinally extending rod having a spear-shaped, relatively thin head at one end having a width sufficiently small to permit it to be inserted through the tubular valve body of a tire valve, a cup-shaped member surrounding said rod and disposed adjacent this spear-shaped head, and a compression spring urging the cup-shaped member over the head.

1,393,366. CARBURETER. ROBERT IRWIN HENDERSON, Toronto, Ontario, Canada. Filed June 23, 1920. Serial No. 391,075. 1 Claim. (Cl. 261—41.)



In a carbureter, the combination with the body having an air passage therethrough and a throttle controlling said passage, of a tubular nozzle extending transversely of said passage and having discharge openings through the wall thereof, a sleeve encircling a portion of said nozzle within the air passage and slidable thereon and adapted to control said discharge openings, and means rigid with said throttle arranged within the air passage and directly engaging said sleeve to move it longitudinally on the nozzle as the throttle is turned.

1,393,367. CARBURETER. ROBERT IRWIN HENDERSON, Toronto, Ontario, Canada. Filed Sept. 20, 1920. Serial No. 411,576. 4 Claims. (Cl. 261—41.)



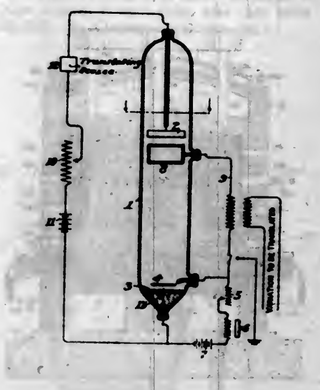
1. In a carbureter having a fuel nozzle entering the air passage and a throttle, a guide arranged diametrically in the air passage adjacent to the nozzle, a valve slidably supported on said guide and adapted to control the flow of fuel from the nozzle, and means arranged within the air passage and directly engaging the throttle and said valve to slide said valve on said guide in relation to the movement of the throttle.

1,393,368. RADIANT REFLECTOR. GEORGE J. HENRY, San Francisco, Calif. Filed Mar. 10, 1920. Serial No. 364,769. 6 Claims. (Cl. 219—34.)



1. A reflector for radiant energy comprising a smooth surface of hyperbolic form, and a heat element located substantially about the focus of the curve surface in combination with a supplementary reflector of cusp form located within the first named reflector and adjacent to the heat element.

1,393,369. APPARATUS FOR TRANSLATING ELECTRICAL VARIATIONS. PETER COOPER HEWITT, Ringwood Manor, N. J. Filed Mar. 12, 1915. Serial No. 13,873. 14 Claims. (Cl. 179—171.)

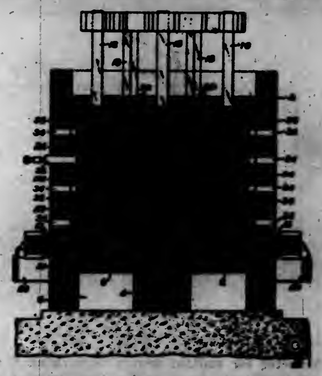


1. In an apparatus for translating electrical variations, an electric device having a potential terminal located therein and completely covered with insulating material, said insulated potential terminal being separately mounted in said device.

1,393,370. PROCESS OF MAKING ALUMINUM NITRID AND OTHER CHEMICAL SUBSTANCES. WILLIAM HOOPES, Pittsburgh, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Sept. 19, 1919. Serial No. 324,764. 24 Claims. (Cl. 204—31.)

2. A process involving chemical reactions between gaseous and solid bodies particularly applicable to bodies which are nonconducting when cold characterized by interposing a pervious mass of the solid bodies between suit

able electrodes providing a resistant conducting body between the electrodes indirectly preliminary to heat said



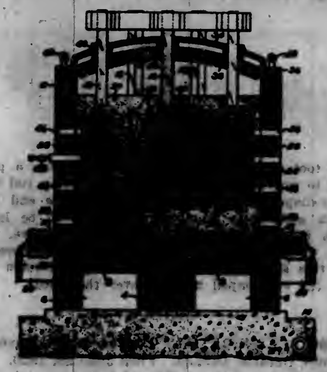
mass and passing an electric current between said electrodes during penetration of said mass by the gaseous body.

1,393,371. APPARATUS FOR MAKING ALUMINUM NITRID AND OTHER CHEMICAL SUBSTANCES. William Hoopes, Pittsburgh, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Sept. 19, 1919. Serial No. 324,765. 26 Claims. (Cl. 204—64.)

4. An apparatus of the class described comprising a container having electrodes at either end thereof adapted to receive a charge between them, means at the sides of the chamber receiving current from said electrodes to heat a charge in the chamber, said means arranged to be withdrawn to provide a gas receiving space about the charge.

1,393,372. PROCESS OF MAKING ALUMINUM NITRID AND OTHER CHEMICAL SUBSTANCES. William Hoopes, Pittsburgh, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Sept. 19, 1919. Serial No. 324,766. 22 Claims. (Cl. 204—81.)

1. A process involving chemical reactions between solid and gaseous bodies, which comprises passing an electric current through a charge comprising a mixture of the solid materials to take part in the reaction to generate throughout said charge the heat necessary for the reaction; per-



meating the charge with the gaseous body to take part in the reaction; and insulating the charge during the reaction.

1,393,373. ELECTRICAL RESISTOR. William Hoopes, Pittsburgh, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 2, 1919. Serial No. 327,954. 27 Claims. (Cl. 219—19.)



1. In combination, an electrical resistor; an electrical conductor electrically connected to one end of said resistor and extending substantially axially thereof but not electrically connected to the other end of said resistor; means for connecting said conductor to one terminal of an electric circuit; and means for connecting the other end of said resistor to the other terminal of said circuit.

1,393,374. SHOCK-ABSORBER. Hermann J. Howaldt, Cleveland, Ohio. Filed Oct. 25, 1920. Serial No. 419,230. 8 Claims. (Cl. 188—130.)

1. In a shock absorber, the combination of a casing, a lever, a shaft mounted to rock in said casing and connected at one end to said lever, a drum connected to said shaft to rock therewith, said drum having a pair of oppo-

sitely tapered peripheral recesses, a movable clutch element in each of said pair of recesses, a pair of clutch rings loosely mounted on said drum, and a pair of brake bands arranged for contact with said clutch rings whereby when

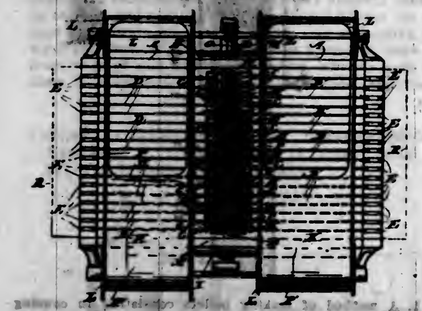


said drum is turned in one direction one of said clutch rings will be turned and frictionally engage one of said brake bands and when the drum is turned in the other direction the other of said clutch rings will be turned and frictionally engage the other in said brake bands.

1,393,375. THERMO-COUPLE. Matthew A. Hunter, Troy, N. Y., assignor to Driver-Harris Company, Harrison, N. J., a Corporation of New Jersey. Filed Feb. 17, 1920. Serial No. 359,466. 6 Claims. (Cl. 171—78.)

2. In a thermo-couple, two elements producing when heated or cooled a substantially linear electromotive force temperature curve, one of said elements consisting of an alloy of copper, nickel and chromium, which is refractory and highly resistant to oxidation and with the other element results in approximately straight line electromotive force temperature curves.

1,393,376. THERMALLY-OPERATED DEVICE. William E. Irish, Cleveland, Ohio. Filed Nov. 14, 1919. Serial No. 338,135. 15 Claims. (Cl. 60—23.)



1. In thermally operated mechanism, a frame, a multiple number of thermal strips, secured at one extremity to said frame, a common ratchet shaft with which the opposite extremities of the said strips engage, means for periodically applying heat to said thermal strips, and means for alternately cutting off the supply of heat thereto.

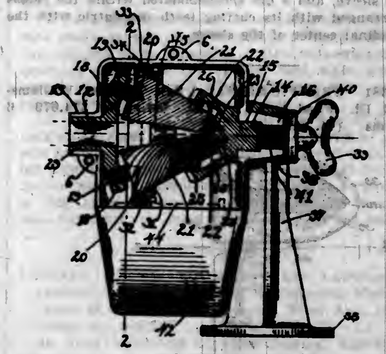
1,393,377. SPRING-CUSHION DEVICE FOR VEHICLE-TIRES. Martin Julazan, Cranston, R. I. Filed Mar. 21, 1921. Serial No. 454,218. 2 Claims. (Cl. 152—12.)

2. In an attachable spring-cushion tread device for vehicle-tires, the combination with two base members adapted to be bolted together to extend longitudinally of the tire and encircle the same, each of said base members comprised of a pair of pivotally united sections having slidable shaft support members provided with slidable shafts projecting from the outer faces thereof, and also slidable guard rail members provided with tubes and slidably mounted upon the end portions of said slidable support members, coil springs encircling said shafts and



having one of their ends secured upon the top face of said slidable shaft support members and the other ends attached to the end portions of the tubular members of said slidable guard rail members, hooks projecting inwardly from the latter, and having strap connections extending from said hooks to said slidable shaft support members, and also strap connections from the latter for attachment to the felly of the wheel of the vehicle.

1,393,378. PENCIL-SHARPENER. William C. Johnson, New Haven, Conn. Filed Mar. 13, 1920. Serial No. 365,305. 11 Claims. (Cl. 120—86.)



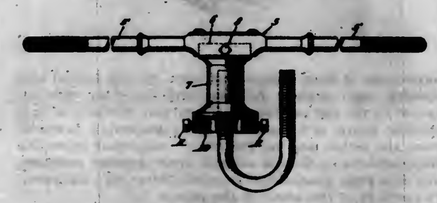
10. In a pencil-sharpener, the combination with the case thereof, of a cutter-carrier journaled therein, two cutters journaled in the cutter-carrier, a gear carried by the carrier, an annular gear mounted within the case for rotation therein and having teeth engaging directly with the said cutters for rotating the same toward each other independently of the rotation of the carrier, a handle-shaft mounted in the said case, and a driving-pinion connected with the said handle-shaft and meshing directly into the gear of the cutter-carrier and into the said annular gear.

1,393,379. CLEVIS. EDWARD F. KELLEY, Bridgeport, Conn., assignor to The Raybestos Company, Bridgeport, Conn., a Corporation of Connecticut. Filed June 19, 1920. Serial No. 390,120. 9 Claims. (Cl. 287—1.)



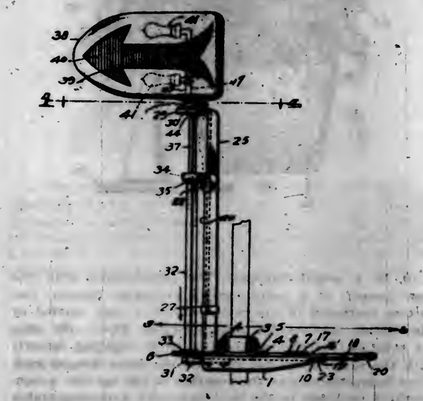
1. A clevis of the character described, comprising a tube from which extend a pair of slotted ears, both said ears being located on the same side of the axis of the tube.

1,393,380. STOCK. GARLAND F. KIGHT, Norfolk, Va. Filed Apr. 9, 1920. Serial No. 372,620. 3 Claims. (Cl. 10—123.)



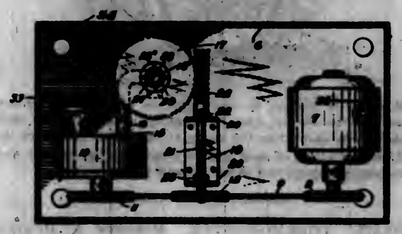
3. In a die holder, a body having an annular recess in one face thereof and also provided with laterally disposed handles, a sleeve increased in diameter at its opposite ends and having one of said ends accommodated within the recess and fixed to rotate with the body, the opposite end of the sleeve being provided with an annular recess of greater diameter than the middle portion of the sleeve, and a die accommodated within the recess and afranged with its cutting teeth concentric with the longitudinal center of the sleeve.

1,393,381. TRAFFIC-SIGNAL. SAM T. KING, Williamsfield, Ill. Filed Apr. 17, 1920. Serial No. 374,679. 6 Claims. (Cl. 116—47.)



1. In a traffic signal, a bracket adapted to be fixed to the wind shield frame of an automobile, an upright support, said support comprising fixed and sliding sections, a tubular shaft mounted in bearings of the fixed section, a shaft section mounted in bearings of the slidable section and carrying an indicator on its upper end and being telescopically united with the shaft of the fixed section, a slide bar mounted in guides of the bracket and being operatively connected with the first shaft, and means operatively connected with the slide bar, whereby the first shaft may be rocked in one direction or the other.

1,393,382. PNEUMATIC ALARM. SAMUEL KUSHNER, New York, N. Y. Filed May 26, 1921. Serial No. 472,771. 7 Claims. (Cl. 116—65.)



1. In a pneumatic whistle, a rotary air compressor, a whistle connected to the outlet of the compressor, a motor, and an operative connection between said motor and compressor.

1,393,383. METHOD AND APPARATUS FOR MAKING SMALL BALLS OR PELLETS. CHARLES E. LINEBARGER, Chicago, Ill. Filed Apr. 8, 1920. Serial No. 372,340. 9 Claims. (Cl. 83—91.)



1. A method of making pellets consisting in causing drops of the substance of which the pellets are to be made to be formed in a relatively warm layer of liquid, and to move freely through said liquid into a cooler layer of liquid.

1,393,384. VALVE FOR WATER-TANKS. OTTO LIENSTADT, Madison, Nebr. Filed July 28, 1920. Serial No. 399,521. 2 Claims. (Cl. 137—104.)

1. In combination with a water tank having an inlet pipe an extension pipe, a threaded sleeve connecting the inlet pipe and the extension pipe, arms fixed to the sleeve, a valve controlling lever pivotally mounted on said arms, a weight member adjustably connected to the valve controlling lever, a float connected to the valve controlling lever, a valve releasably mounted on the free end of the extension pipe, and a long rod fixed to said valve and extending into the inlet pipe to keep the valve from becoming misplaced under the pressure of water whereby the valve will be automatically closed by the rise of water in the tank and opened when the water in the tank drops below a predetermined height.

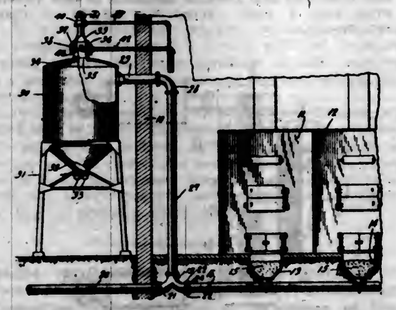


1,393,385. COMBINED ROAD GRADING AND LEVELING MACHINE. JAMES D. LYTTLE, Fenn, and SOLOMON CLARK, Grangeville, Idaho. Filed Jan. 19, 1920. Serial No. 352,605. 9 Claims. (Cl. 37—42.)



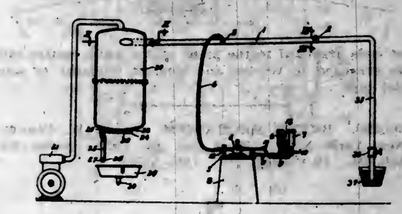
1. A grading and leveling machine having parallel supporting runners, transverse members hingedly connected thereto, and auxiliary runners extended from the rear ends of, and hingedly connected to, said supporting runners, and manually operable means connected with the inner ends of said auxiliary members, whereby said auxiliary members may be tilted, for the purpose described.

1,393,386. CONVEYING SYSTEM. EDWARD F. MCCABE, Maplewood, N. J. Filed Apr. 11, 1918. Serial No. 227,954. 1 Claim. (Cl. 302—20.)



In an apparatus of the character described, a conduit having communication with an ash pit, an ash receiving receptacle having the bottom thereof normally closed, a nozzle supported on the receptacle and having communication therewith, a steam conducting jet disposed within the nozzle and extended toward the outer end thereof, whereupon steam passing therethrough and exhausting from the nozzle a vacuum will be created in the receptacle to carry the ashes through the conduit and into the receptacle.

1,393,387. MILKING-MACHINE SYSTEM. HERBERT MCCORNACK, Glen Ridge, N. J., assignor to Empire Cream Separator Company, Bloomfield, N. J., a Corporation of New Jersey. Filed Feb. 7, 1918. Serial No. 215,775. 13 Claims. (Cl. 31—73.)



1. In a milking system having teat cups, a milk-receiving vessel and connections therebetween, the combination of a vacuum reservoir and a vacuum main draining thereinto, said reservoir and main being independent of the milk-receiving parts of the system except for a vacuum connection therewith.

7. In a milking system the combination of milk-extracting and receiving devices, a vacuum main adapted to be connected therewith or with a source of flushing fluid, a vacuum tank, and means for maintaining a vacuum in said tank, said vacuum main discharging tangentially into the upper part of the tank.

11. In a milking system, the combination of a vacuum tank and a vacuum main discharging tangentially thereinto, said main having a flushing pipe connected therewith.

12. In a milking system, the combination of a vacuum tank and a vacuum main connected therewith at one end and adapted to be connected to the milk-extracting and receiving devices of the system, said main being connected at its other end with a flushing pipe, said tank being provided with draining means.

13. In a milking system, the combination of a vacuum tank and a vacuum main connected therewith at one end, said main being connected at the other end with a flushing pipe, said tank having a drain orifice at the bottom thereof provided with a closure adapted to be held closed so long as a vacuum is maintained in the tank but to open automatically upon the breaking of the vacuum.

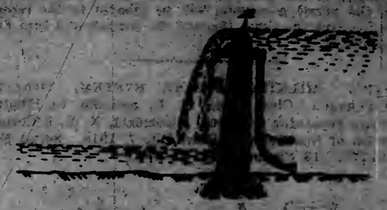
1,393,388. ALLOY. FOSTER MILLIKEN, Lawrence, N. Y., assignor to Foster Milliken, S. Fullerton Weaver, and James M. Repplier, as trustees. Filed Aug. 18, 1920. Serial No. 404,377. 1 Claim. (Cl. 75—1.)

An alloy consisting of the following ingredients in substantially the following proportions: copper, 60 to 70 per cent.; zinc, 19 to 24 per cent.; nickel, 9 to 12 per cent.; iron, 1 to 2½ per cent.; and a trace of manganese and having a tensile strength from 45,000 to 183,000 pounds per square inch as the hardness varies from dead soft to 16 numbers hard.

1,393,389. DEBRIS OR SEDIMENT COLLECTOR. ALEXANDER PARKER, Etna Mills, Calif. Filed Dec. 16, 1919. Serial No. 345,286. 1 Claim. (Cl. 61—2.)

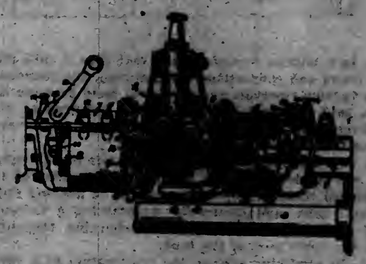
The combination of a dam, a suction outlet pipe having its end projecting into the water overflowing said dam, a plurality of downwardly extending feeder pipes having

their corresponding upper extremities communicating with one end of said suction pipe, said feeder pipes with their



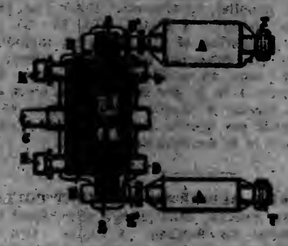
inlet ends arranged to the plane of the water course said ends arranged to receive and conduct sediment to said outlet pipe.

1,393,390. BRAKE MECHANISM. Clark W. Parkin, New York, N. Y. Filed Dec. 13, 1920. Serial No. 430,204. 16 Claims. (Cl. 188—204.)



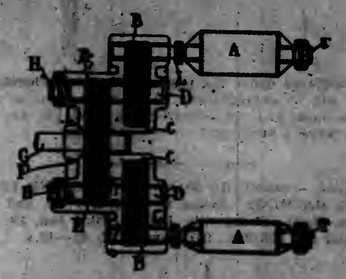
5. The combination of a pair of alined shafts and means for rotating them, a casing therefor having a cover plate, a disk-brake for each shaft mounted on the cover plate and comprising a short shaft journaled in the cover plate and an arm attached to said short shaft outside the casing, a toggle member for said arms embodying shanks adjustable endwise in the ends of the arms and having cam surfaces at their adjacent ends, pins mounted in said adjacent ends, links connecting said pins, a spring normally holding said cam faces together and the brakes inoperative, and means to swing the toggle members to cause the brakes to operate.

1,393,391. GEARED TURBINE SYSTEM. Charles Algernon Parsons, Stanley Smith Cook, and Louis Mortimer Douglas, Newcastle-upon-Tyne, England; said Cook and said Douglas assignors to said Parsons. Filed Feb. 12, 1919. Serial No. 276,561. 2 Claims. (Cl. 74—7.)



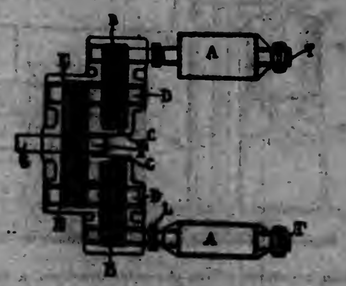
1. In a double reduction geared turbine installation the combination of a turbine, a single helical pinion driven thereby, a single helical wheel engaged by the said pinion and partly taking up the steam thrust of the turbine, a thrust block also partly taking up said steam thrust, a main driving shaft, an intermediate shaft carrying said single helical wheel, and a double helical pinion and gear wheel connection between the intermediate shaft and main driving shaft, the two complementary helices of the double helical pinion and gear wheel connection being of different widths and taking up the end thrust of the intermediate shaft, substantially as described.

1,393,392. GEARED TURBINE SYSTEM. Charles Algernon Parsons, Stanley Smith Cook, and Louis Mortimer Douglas, Newcastle-upon-Tyne, England; said Cook and said Douglas assignors to said Parsons. Filed Sept. 6, 1920. Serial No. 408,276. 1 Claim. (Cl. 74—7.)



In a double-reduction geared turbine installation, the combination of an axial-thrust turbine, a shaft driven thereby, a thrust-block co-acting with said shaft and taking a part of the thrust of said turbine, a single helical pinion mounted on said shaft, a main driven shaft, a single helical wheel mounted thereon, an intermediate shaft, a single helical pinion mounted on said intermediate shaft and gearing with said wheel on said main driven shaft, a single helical wheel mounted on said intermediate shaft gearing with said pinion on said turbine shaft and receiving the balance of the thrust of said turbine and a thrust-block co-acting with said intermediate shaft to receive the thrust thereof due to said single helical wheels mounted thereon.

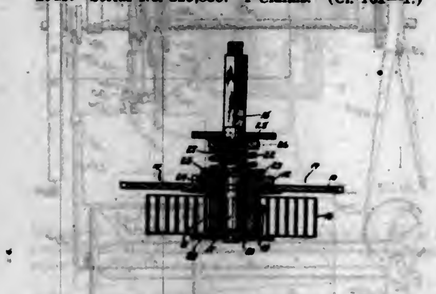
1,393,393. GEARED TURBINE SYSTEM. Charles Algernon Parsons, Stanley Smith Cook, and Louis Mortimer Douglas, Newcastle-upon-Tyne, England; said Cook and said Douglas assignors to said Parsons. Filed Sept. 4, 1920. Serial No. 408,276. 1 Claim. (Cl. 74—7.)



In a double reduction geared turbine installation the combination of a turbine, a single helical pinion driven

thereby, a single helical wheel engaged by the said pinion and partly taking up the steam thrust of the turbine, a thrust block also partly taking up said steam thrust, a main driving shaft, an intermediate shaft carrying said single helical wheel, a secondary pinion and gear of the single helical type connecting the intermediate shaft with the main driving shaft, the teeth of the primary gear wheel and secondary pinion respectively being inclined at different angles.

1,393,394. TIMING MECHANISM. Ross M. G. Phillips, New Haven, Conn., assignor to The Phillips Time Switch Co., Shelton, Conn., a Corporation. Filed Oct. 10, 1919. Serial No. 329,855. 4 Claims. (Cl. 161—1.)



4. In a timing mechanism, the combination with the winding arbor, of a hub mounted thereon, a main timing wheel and a ratchet wheel connected with the said hub, a main spring having one end connected with the hub, means mounted on the arbor for frictionally locking the arbor to the timing wheel, whereby the main spring may be wound and the arbor turned backward without unwinding the main spring.

1,393,395. ELECTRIC MACHINE. Otto Pletscher, Albisrieden, Switzerland. Filed Apr. 14, 1917. Serial No. 162,147. 6 Claims. (Cl. 171—209.)

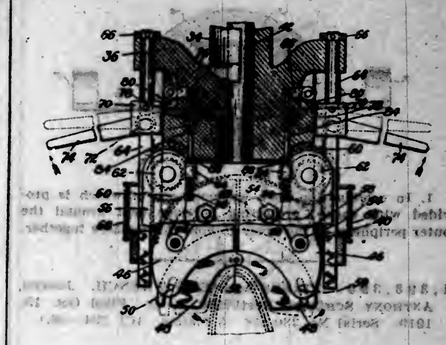


1. In a magneto-electric machine, arcuate permanent field magnets, spaced apart to form a gap that increases in width toward the outer periphery of said magnets and a pole shoe connecting poles of like sign on opposite sides of said gap.

6. In a magneto-electric machine, field elements arranged side by side, each element composed of substantially semi-circular magnets having a gap between them widening toward their outer peripheries, and pole shoes common to all the magnets connecting the opposed poles of like sign of said magnets, said pole shoes of less thickness than the minimum width of said gaps.

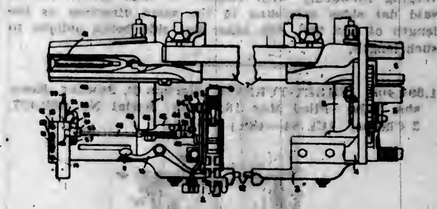
1,393,396. END-LASTING MECHANISM. Charles F. Pym, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 13, 1919. Serial No. 270,884. 31 Claims. (Cl. 12—14.)

1. In mechanism of the class described, the combination with end embracing wipers, of operating means and connections between said means and the wipers for closing them inward laterally of a shoe, said connections being constructed and arranged to permit relative [illegible] closing



movement of the wipers independently of said operating means to adjust them to the shoe, and additional means controlled by the operative movement of the wipers for retaining the wipers in adjusted relation.

1,393,397. FEELER MECHANISM FOR LOOMS. Alonzo E. Rhoades, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Feb. 2, 1920. Serial No. 355,978. 4 Claims. (Cl. 139—85.)



1. An automatic filling replenishing loom comprising a vibrating weft hammer, a feeler movable into abnormal position upon the detection of a predetermined degree of filling exhaustion on the running shuttle, a pivoted latch, means operated by bodily forward movement of the latch to initiate the filling replenishing action of the loom, a rod journaled for rotary movement on the loom frame and having a crank arm engaging the latch, a spring connected to the rod and acting to rock the rod in a direction to allow the latch to move out of position to be struck by the weft hammer, a connection between said rod and the said weft hammer whereby the weft hammer upon its rearward vibration will rock the rod to move the latch into position to be struck by the weft hammer on its forward vibration, a dog pivoted adjacent the feeler and provided with a cam groove, and a pin projecting radially from the rod and engaging the said groove, the dog being free to rock under normal conditions but being restrained from rocking by the feeler when in abnormal position.

1,393,396. INSULATOR. HOWARD N. RICHARDS, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 19, 1921. Serial No. 446,306. 12 Claims. (Cl. 191—42.)



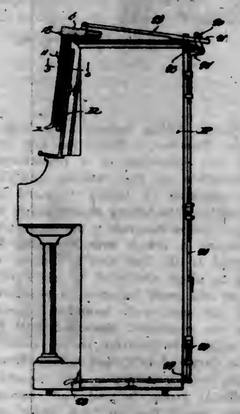
1. In combination, two washers, one of which is provided with spaced projecting portions bent around the outer periphery of the other to hold the washers together.

1,393,399. PLIERS AND END WRENCH. JOSEPH ANTHONY SCHLEBR, Northville, S. D. Filed Oct. 13, 1919. Serial No. 330,358. 3 Claims. (Cl. 294—36.)



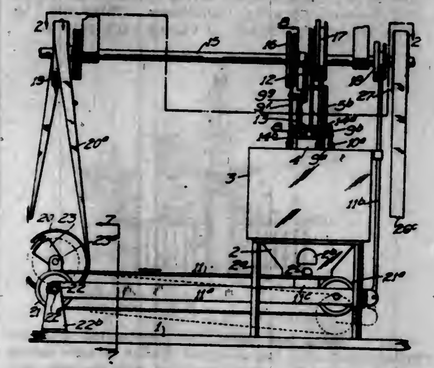
1. An open-ended nut gripping and turning tool comprising a pair of handle-carried jaws, narrowed substantially to points at their front ends, the opposed sides of said jaws being flat throughout their areas and converging forwardly with respect to each other, one of said flat sides extending in the same direction as the length of the tool, the other flat side being oblique to such length.

1,393,400. SHEET-TURNER. GEORGE B. SEMLEY, Kenosha, Wis. Filed May 18, 1920. Serial No. 382,427. 3 Claims. (Cl. 84—488.)



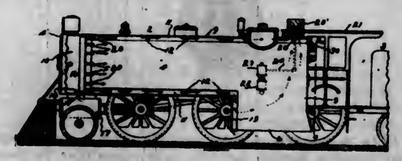
1. In a mechanism of the class described, a normally inactive turning arm pivoted intermediate its ends, a weight on one of said ends, a pivoted latch bar having a groove receiving a portion of the arm to retain the same in inactive position, and means for rocking the latch bar to release the arm and to move the same toward an active position, the weight completing the movement of the arm from its inactive to its active position.

1,393,401. COATING AND FORMING MACHINE. IRA SHAFER and CHARLES A. SMALL, San Diego, Calif. Filed Jan. 20, 1920. Serial No. 352,828. 15 Claims. (Cl. 91—2.)



3. A coating machine, including a candy center conveyer, means for supporting said center, means for forcing coating substance below and above said center and means engaging the outer surface of said coating all operated in their proper sequence and means intermittently and upwardly and downwardly operated for supporting and conducting said center and coating.

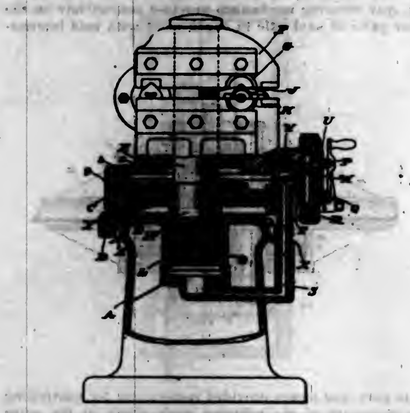
1,393,402. LOCOMOTIVE. WILBUR L. SHEPARD, Elmwood, and EDWARD A. BEALS, Hartford, Conn. Filed Oct. 14, 1919. Serial No. 330,645. 1 Claim. (Cl. 122—75.)



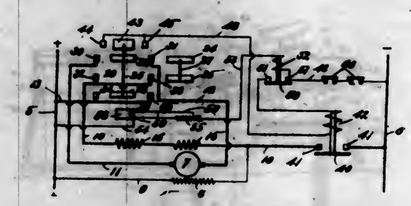
The combination in a steam engine, comprising a boiler, a jacket around and spaced from the boiler, and means for causing the exhaust steam from the engine to pass along said space and at the same time to cause the waste gases of the boiler to travel said space.

1,393,403. DRILL-SHARPENER. WILLIAM A. SMITH, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Apr. 1, 1920. Serial No. 370,553. 2 Claims. (Cl. 121—31.)

1. A drill sharpener having a stationary die member, a reciprocating die member, a cylinder, a piston therein connected to operate the reciprocating die member, fluid actuating means for said piston, a recess or pocket at the upper end of the cylinder adapted to receive a projecting portion on the piston for cushioning the piston on the up stroke, ports through the lower wall of the cylinder affording communication between the interior of the cylinder and the atmosphere, and means forming part of the piston for closing communication through said ports when the piston approaches the end of its down stroke, whereby air is trapped below the piston to form a cushion.



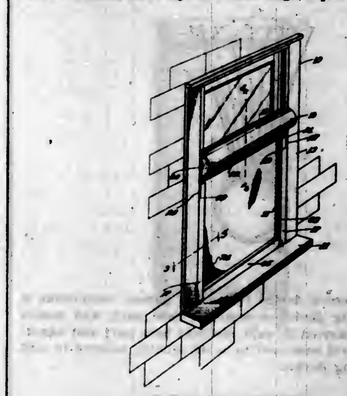
1,393,404. SAFETY DEVICE FOR ELECTRICALLY-OPERATED SYSTEMS. WILLIAM S. SMITH, Cambridge, Mass. Filed Aug. 3, 1918. Serial No. 248,176. 17 Claims. (Cl. 172—179.)



2. The combination with an electrical system comprising a motor and manually operated means for controlling said motor, of a switch in the motor circuit normally open, means including a second normally open magnet operated switch in the operating circuit of the first mentioned magnet operated switch and for closing said switch to close the motor circuit, said means being operated by said controlling means and being so arranged that whenever there is a failure of current in the system and said switch has returned to open position the said means remains inoperative until the manually operated controlling means has been returned to a neutral position.

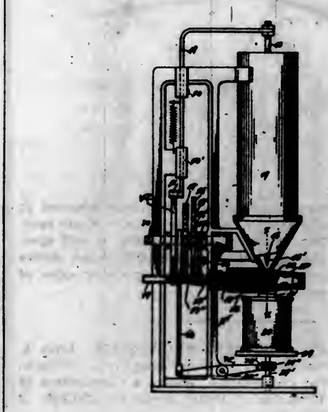
1,393,405. SCREEN. LOUIS C. SOTEROS and JOHN S. CAVALIERES, Gary, Ind. Filed Oct. 14, 1920. Serial No. 417,027. 5 Claims. (Cl. 156—39.)

2. The combination with an inclosure having an opening, of a screen for said opening, a housing, means for detachably securing said housing to the sides of said opening, a roller rotatably mounted in said housing, a screen fabric having one end secured to said roller, spring means carried by said roller tending to coil said fabric around said roller, a pair of guide rollers for said fabric, said guide rollers being rotatably mounted in said housing, a pair of reinforcing wires for each of the side edges of said fabric, the inner wire for each side edge having said fabric looped over it, clips disposed along each of said side edges for securing said inner wires to said fabric, the outer wires for each side edge being secured to the outer end of the clips disposed along the respective side edge, a pair of guideways



for said fabric, said guideways being each secured to a side of said opening and comprising a pair of strips coacting with said clips, a bar secured to the free end of said fabric, and means for holding said bar in contact with the end of the opening when said fabric closes said opening.

1,393,406. CAN-CHARGING APPARATUS. BURT E. TAYLOR, Mount Vernon, N. Y., assignor to The Borden Company, New York, N. Y., a Corporation of New Jersey. Original application filed Dec. 13, 1919, Serial No. 344,713. Divided and this application filed Jan. 10, 1921. Serial No. 436,063. 5 Claims. (Cl. 226—116.)



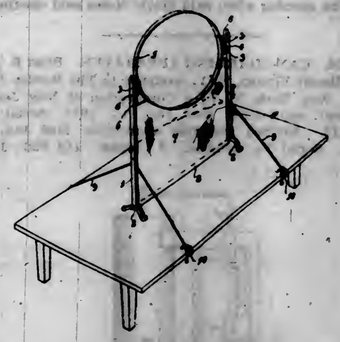
1. In apparatus for charging a flowing material into a container, a receptacle for the material having adjacent its bottom a downwardly delivering outlet; a reciprocable valve member within said receptacle coöperating with said outlet; an oscillatory valve below said receptacle also cooperating with said outlet, and containing an air-duct and also a by-pass for the material, and means to oscillate said last mentioned valve and thereby bring said air-duct and said by-pass alternatively into communication with said outlet.

1,393,407. SHUTTLECOCK DEVICE FOR USE IN GAMES. Fred Tenney, Buckingham, England. Filed Oct. 25, 1919. Serial No. 332,700. 16 Claims. (Cl. 46—59.)



1. A shuttlecock device for use in games, comprising a flight steadying device, a resilient base part, and means permanently carried by said resilient base part and adapted to enable said base part to be detachably secured to said flight steadying device.

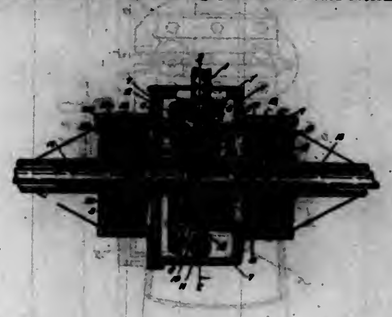
1,393,408. GAME. Fred Tenney, Doncaster, England. Filed Oct. 25, 1919. Serial No. 332,791. 9 Claims. (Cl. 46—59.)



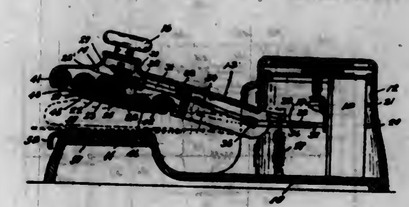
1. A game apparatus comprising a barrier adapted to be set up between players of opposing sides, a single aperture in said barrier, means whereby the size of said aperture may be varied as desired, and a shuttlecock device adapted to be exchanged between the opposing sides of players through said aperture.

1,393,409. TRACTOR DRIVING MECHANISM. John A. Thompson, Sedro Woolley, Wash., assignor to Perfecto Gear Differential Co., Seattle, Wash., a Corporation of Washington. Filed Jan. 8, 1919. Serial No. 270,165. 3 Claims. (Cl. 180—17.)

1. A transmission of the class described comprising a three-part axle, a fixedly and a rotatably mounted disk on the intermediate part of said axle, said rotatably mounted disk having clutch recesses formed between the geared outer and shouldered inner part thereof, pinion gears mounted for rotation on said fixedly mounted disk disposed to mesh with the gear on the shoulder of said rotatably mounted disk, a ring gear in mesh with said pinion gears, means for driving said rotatably mounted disk, a fixed axle housing, clutch recesses formed in the periphery of said housing, clutch elements on both sides of said ring gear, means for shifting said ring gear to selectively lock the same to said rotatably mounted disk or to said axle housing, gear reducing mechanism provided respectively on the outer parts of said axle in engagement with said intermediate part, and means provided respectively for controlling the movement of the reducing mechanisms on the outer parts of said axle whereby said outer parts can be rendered operative or inoperative collectively or independently.



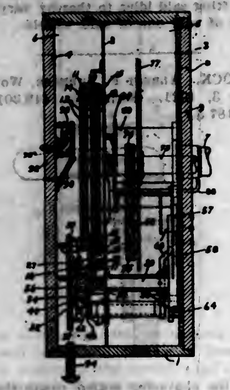
1,393,410. TIME-STAMP. Robert H. Thompson, Brookline, Mass. Filed July 25, 1917. Serial No. 182,783. 7 Claims. (Cl. 234—54.)



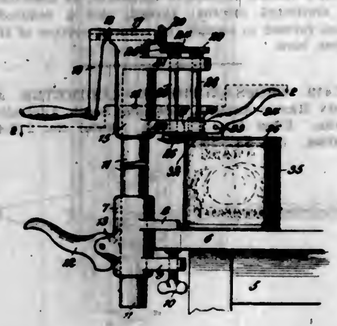
2. A time stamp including a base, an anvil carried thereby, a clock mechanism arranged on said base remote from said anvil, an arm pivoted to said base and extended above said anvil, a printing die carried by said arm above said anvil adapted to be rotated by said clock mechanism, said arm movable to and from said anvil to record an imprint of said printing die, a drive shaft connecting said printing die and a rotatable component of said clock mechanism for the rotation of said die by said clock mechanism, and a universal joint interposed in said shaft, whereby said shaft may be flexed during a movement of said arm for the imprint of said printing die and drive said printing die in such flexed condition.

1,393,411. MULTIPLE-VIEW CAMERA. Perry B. Wright and Charles H. Ahrens, Dayton, Ohio, assignors to The Vemograph Company, Dayton, Ohio, a Corporation of Ohio. Filed May 12, 1919. Serial No. 296,585. 52 Claims. (Cl. 88—16.)

12. In a mechanism of the character described, a lens, a carriage mounted for movement transversely to said lens and adapted to support a sensitized plate, a toothed member connected with said carriage, a pair of pawls cooperating with said toothed member to move said carriage in opposite directions, and means to render one of said pawls inoperative during the movement of said carriage in one direction and to render the other pawl inoperative during the movement of said carriage in the opposite direction.



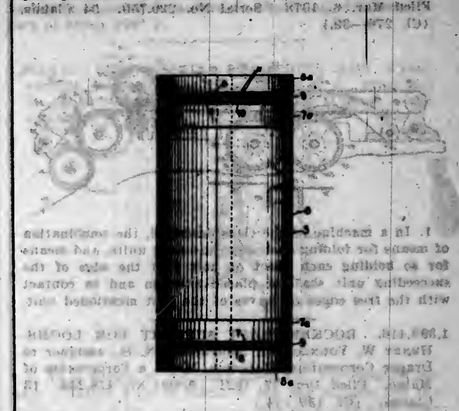
1,393,412. CAN-OPENER. Robert Henry Waller, Nashville, Tenn., assignor, by mesne assignments, to Quicksafe Manufacturing Company, Nashville, Tenn., a Corporation of Tennessee. Filed June 16, 1920. Serial No. 389,391. 5 Claims. (Cl. 30—3.)



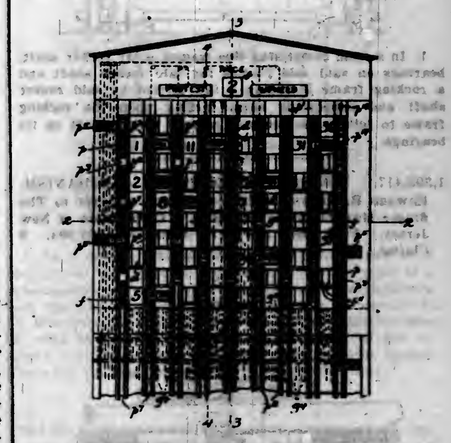
1. In a can opener, a rotary cutter or knife, a roller for engagement with the inside of the bead of the can, means for permitting swinging of the roller about a horizontal axis elevated with respect to the roller means for swinging the roller against the bead and holding it there, whereby the roller exerts a pressure on the bead to force the can against the knife, and means for positively turning both the rotary cutter and the roller irrespective of the thickness of the interposed bead to effect opening of the can.

1,393,413. CONTAINER. Frank Wallertz, Chicago, Ill. Filed Sept. 22, 1919. Serial No. 325,904. 2 Claims. (Cl. 220—5.5.)

1. A container of fibrous material the longitudinal walls whereof are formed from a blank of suitable dimensions, closures for the ends thereof, each comprising two elements having right angle lateral flanges adapted to contact and assemble with the longitudinal walls of the container; said elements being arranged face to face in juxtaposition with their flanges extending in opposite directions, and a bead of cementitious material disposed at and between the juncture of the flanges of the two closure elements with the walls of the container.

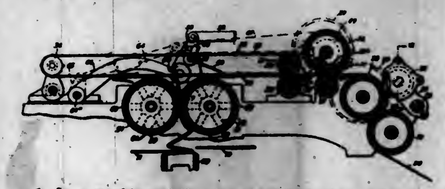


1,393,414. INDICATOR MEANS FOR USE ON RECREATION-GROUNDS OR RACE-COURSES. Albert Watkinson, Kyneton, Australia. Filed Nov. 8, 1919. Serial No. 335,458. 6 Claims. (Cl. 40—65.)



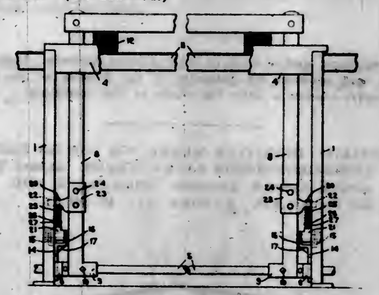
2. In an indicator, the combination with a frame divided into vertical rows of separate divisions and each division including an open-faced pocket; of a gravity-actuated indicator plate for each pocket, counterweighted flexible actuating means for each plate, and a latching device for each of said means to normally hold the plate concealed behind said frame above its pocket and means to automatically release all of the latches.

1,393,415. MACHINE FOR PRODUCING INTERFOLDED PAPER-PACKAGES. SETH WHEELER, Castleton, N. Y. Filed Mar. 6, 1918. Serial No. 220,759. 54 Claims. (Cl. 270—39.)



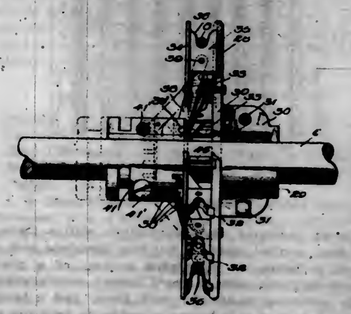
1. In a machine of the class described, the combination of means for folding successive sheets or units, and means for so holding each sheet or unit that the edge of the succeeding unit shall be placed between and in contact with the free edges or leaves of the first mentioned unit.

1,393,416. ROCKER-SHAFT SUPPORT FOR LOOMS. HENRY W. YOUNGQUIST, Manchester, N. H., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed June 17, 1921. Serial No. 478,282. 18 Claims. (Cl. 139—74.)



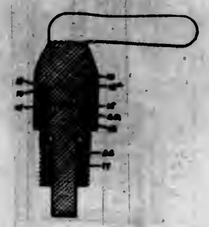
1. In a loom comprising side frames, a lay rocker shaft, bearings on said side frames for said rocker shaft and a rocking frame including a lay carried by said rocker shaft and supporting means acting upon the rocking frame to relieve the pressure of said rocker shaft on its bearings.

1,393,417. POWER-TRANSMITTING MECHANISM. EDWARD B. ALLEN, Bridgeport, Conn., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Dec. 20, 1917. Serial No. 207,994. 9 Claims. (Cl. 64—8.)



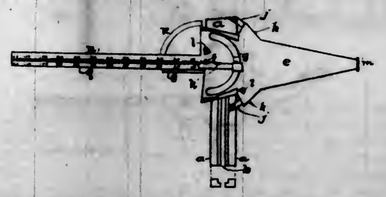
1. In a variable speed, power-transmitting mechanism, in combination, a driven wheel, a driving wheel, a belt connection between said wheels, an idler for said belt, one of said wheels being expansible and contractible to vary its effective circumference, and manually controlled means for shifting said idler to thereby vary the effective circumference of said one of said wheels.

1,393,418. COCK. ALBERT F. AUDIBERT, Wolfeboro, N. H. Filed Mar. 3, 1921. Serial No. 449,301. 1 Claim. (Cl. 123—187.5.)



A cock of the character stated comprising a tubular body member, adapted for attachment as a conduit to a container, and having an annular valve seat at its outer end surrounding its bore, said bore extending from end to end of the body member, and including an enlarged portion adjacent to the valve seat, having a mutilated internal screw thread, and a reduced portion extending from the enlarged portion to the inner end of the body member; and an elongated closing member including an enlargement forming a valve portion having an annular face formed to close upon said seat, and a stem having an enlarged outer portion provided with a mutilated external-screw thread, formed to coöperate, as described, with said mutilated internal thread, and a reduced inner portion formed to occupy the reduced portion of the body member bore.

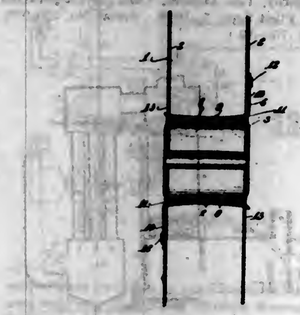
1,393,419. CROSS-SECTIONAL CLINOMETER. ARTHUR JOHN HENRY ARTHUR, Adelaide, South Australia, Australia. Filed Jan. 27, 1919. Serial No. 273,414. 5 Claims. (Cl. 33—46.)



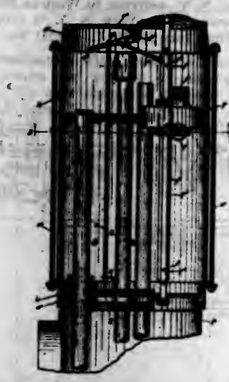
1. A cross-sectional clinometer including a vertical pillar having graduations, a member pivoted to the pillar and having a graduated extension projecting from the pillar, a vertically adjustable slide mounted on the pillar and coöperating with the graduations thereof and a horizontally adjustable member carried by the slide and provided with a graduated extension and a batter rod adjustably mounted on the said horizontally adjustable member.

1,393,420. FILM-REEL. THOMAS ASH and AUGUSTUS J. FRAME, Columbus, Ohio. Filed Jan. 5, 1921. Serial No. 435,090. 3 Claims. (Cl. 242—70.)

3. A film reel clamping appliance comprising a hub structure having spaced vertically disposed heads secured to the ends thereof, a leaf spring disposed to extend between said heads and normally disposed in engagement with the outer periphery of the hub structure, a laterally offset end formed upon said spring, lugs carried by one of said heads and arranged to receive the offset portion of said spring, and the free end of said spring being disposed to lie in contiguity with an opening provided in the other of said heads and capable of being exteriorly manipulated to withdraw the spring substantially from engagement with the hub structure.



1,393,421. MECHANICAL CUT-OUT FOR FLOAT METERS. LINNAEUS E. BAKER, Fort Wayne, Ind., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Dec. 16, 1919. Serial No. 345,417. 4 Claims. (Cl. 235—94.)

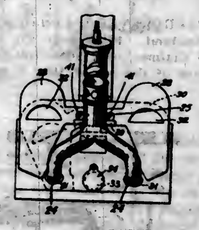


1. In combination with a float meter having a rack gear, fixed upright guiding means upon which said float meter rises and falls, an upright rack adapted to mesh with the rack gear while the meter is in operation, and means for moving the rack backwardly out of mesh with the rack gear when metering is to be avoided.

1,393,422. PROCESS FOR THE MANUFACTURE OF GRAPE AND OTHER FRUIT JUICES. RUSSELL W. BRIDGES, Detroit, Mich. Filed Mar. 27, 1919. Serial No. 285,555. 3 Claims. (Cl. 99—11.)

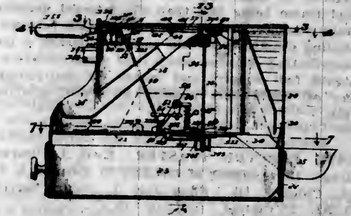
3. The process of preparing grape and other fruit juices, which consists in commingling in a container fruit, sugar and hot water in about the proportion of two quarts of fruit, one pound of sugar and enough water to approximately 210° F. to fill a two gallon container, thereby forming a dilute hot sugar solution to make the skins and cell walls permeable and promote osmosis, then sealing the container, cooling and subjecting the contents to osmotic action until diffusion or extraction of the juice has been effected, then filtering and sterilising the resulting juice, sealing in a container and again sterilising at a temperature of about 160° F.

1,393,423. SELF-HEATING SMOOTHING-IRON. FERDINAND M. EUGENE BLASS, East Orange, N. J. Filed May 20, 1919. Serial No. 298,387. 12 Claims. (Cl. 158—23.1.)



2. In a device of the class described, the combination with a hollow body of metal or the like suitable for the purpose of ironing or smoothing, having gas and air inlet with controlling means therefor on the rear side of the iron only, of a plurality of compartments connected with each other to form a continuous passage for the heating gas, a burner and air entrance in the lowermost of said compartments, an exit for waste gas arranged in the uppermost of said compartments, and means for automatically covering said exit and the burner and air entrance upon the removal of said burner, said means being also operative to engage said burner with said iron.

1,393,424. CHANGE-MAKING MACHINE. GEORGE J. BROCKHAGEN, Brooklyn, N. Y. Filed Jan. 15, 1919. Serial No. 271,230. 17 Claims. (Cl. 133—2.)



1. In a change making machine the combination of a plurality of coin ejectors, each adapted to eject coins of a denomination different from those of the others, separate coin ejector actuating mechanisms, means responsive to an inserted coin for operating the actuator mechanisms of coins of a lower denomination than that of the inserted coin, and means for moving the actuator mechanisms out of line with their operating mechanisms.

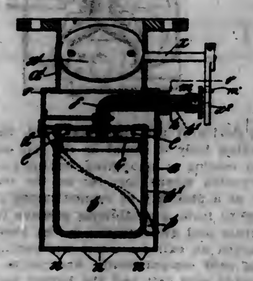
1,393,425. BELT-BUCKLE. SAMUEL BUCHSBAUM, Chicago, Ill. Filed Oct. 14, 1920. Serial No. 416,931. 5 Claims. (Cl. 24—170.)



1. A device of the character described, comprising a front plate, a gripping element pivotally carried by said

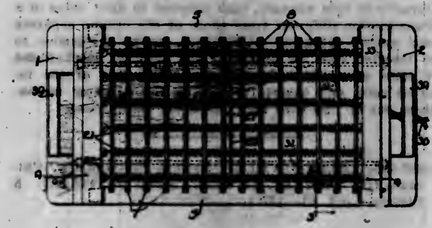
front plate and adapted to grip a free belt tongue and hold it in place against the rear face of said front plate, said gripping element extending across substantially the entire width of said front plate, and consisting of two separated gripping surfaces, and upstanding side walls and a belt clamping structure pivotally carried by said gripping element at its side walls, said belt clamping structure including a plate-like element and a clamp pivotally carried thereby.

1,393,426. CARBURETER. LESLIE STUART CAMPBELL, Brighton, England. Filed Sept. 20, 1920. Serial No. 411,588. 5 Claims. (Cl. 261—100.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



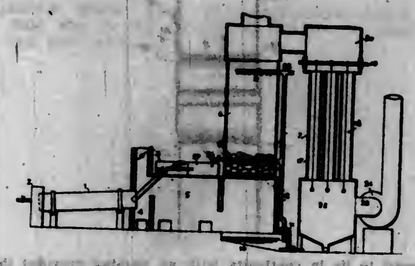
1. A carbureter for internal combustion engines comprising a chamber the upper part of which is adapted to be put in communication with the induction pipe of the engine, an air inlet in the bottom of said chamber, a frame located within said chamber, a distributing chamber mounted on the top of said frame, an absorbent jacket on the exterior of said frame the exterior diameter of the jacketed frame being less than the internal diameter of the main chamber, means of communication between said distributing chamber and said absorbent jacket, a port in said distributing chamber which is in communication with the liquid fuel supply, and means for controlling the amount of liquid fuel passing into said distributing chamber.

1,393,427. ELECTRIC TOASTER. EMIL A. CHRISTOPH, Chicago, Ill., assignor of one-half to Edward A. Christoph, Chicago, Ill. Filed July 1, 1920. Serial No. 393,392. 18 Claims. (Cl. 219—19.)



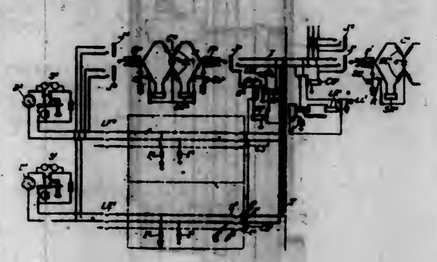
1. In a toaster, the combination of a toasting surface comprising an open frame and having a heating element, a plurality of grid sections extending across said frame, and means for removably securing said grid sections to said frame, said means permitting the removal of said grid sections independently of said heating element.

1,393,428. PROCESS AND APPARATUS FOR RECOVERING METALLIC VALUES FROM ORES. FRANCHOT B. CHURCH, Azusa, Calif., assignor to International Precipitation Company, Los Angeles, Calif., a Corporation of California. Filed Sept. 5, 1919. Serial No. 321,922. 6 Claims. (Cl. 75—27.)



1. In the art of recovery of metallic values from ores by chloridising volatilisation, the method of recovery of chlorin contained in gaseous constituents produced in the volatilising operation, which consists in passing such constituents in contact with a basic absorbing medium.

1,393,429. TELEPHONE SYSTEM. HENRY P. CLAUSEN, Mount Vernon, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 12, 1917. Serial No. 180,172. 4 Claims. (Cl. 179—27.)

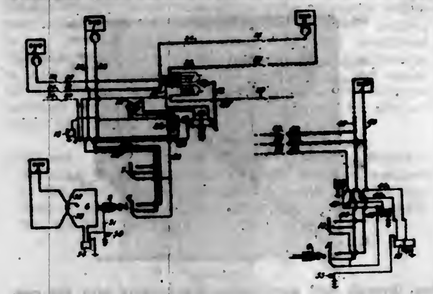


1. In a telephone system, an exchange, a branch exchange, a two-wire trunk extending between said exchange and said branch exchange, a visual call-indicating device individual to said trunk at the exchange end thereof responsive to the initiation of a call at the branch exchange end thereof, cord circuits including supervisory relays at said exchange, and means at the branch exchange for differently actuating said device and said supervisory relays.

1,393,430. TELEPHONE SYSTEM. HENRY P. CLAUSEN, Mount Vernon, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 4, 1918. Serial No. 210,267. 6 Claims. (Cl. 179—27.)

1. In a telephone system, a central office, a telephone line terminating in said office, a plurality of automatic switches having access to said line, an operator's switchboard at said office, a plurality of multiply connected jacks at said switchboard normally disconnected from said line,

a plurality of manually operable link circuits at said switchboard, and means including a relay effective when



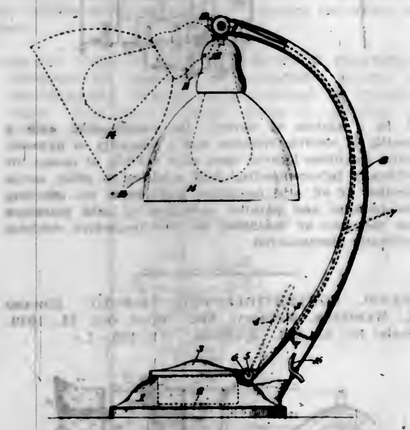
one of said switches is not connected to said line to connect any one of said link circuits through any one of said jacks to said line.

1,393,431. LOCALIZER. CLARENCE CURTIS CULVER, U. S. Army. Filed Sept. 4, 1920. Serial No. 408,819. 5 Claims. (Cl. 244—1.)



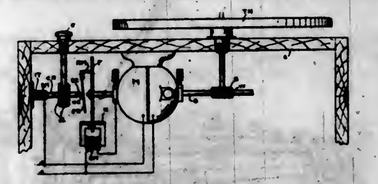
2. In combination with an aircraft body, a fixed coil receiving means for guiding a pilot to ground, said coil having its axis obliquely disposed with respect to said aircraft body.

1,393,432. LAMP. EDWARD J. DAILEY, Jr., New York, N. Y. Filed Nov. 18, 1919. Serial No. 338,896. 2 Claims. (Cl. 240—4.)



1. A lamp consisting of a base, an arm and a light source, the base being provided with a hinged cover containing a mirror, such cover being connected to means extending through the arm and connected to the light source for rotation thereof when the mirror is positioned for use.

1,393,433. MOTOR-GOVERNING DEVICE. WILLIAM W. DEAN, Wilmette, Ill., assignor to Efficiency Electric Corporation, New York, N. Y., a Corporation of New York. Filed May 16, 1919. Serial No. 297,628. 10 Claims. (Cl. 171—229.)



1. In combination with an electric motor, of a set of speed responsive contacts associated therewith and adapted to operate upon a predetermined motor speed, a motor shaft, an armature disk rotated by the said shaft when the motor is operated, a field electro-magnet for the said armature, opposing poles therefor disposed on either side of an edge thereof, said magnet adapted when energized to retard the speed of rotation of the said armature, said speed responsive contacts when operated causing the energization of the said field magnet.

1,393,434. PHONOGRAPH SOUND-BOX. ALFRED A. DENNIS, Grand Rapids, Mich. Filed June 21, 1920. Serial No. 390,352. 8 Claims. (Cl. 274—27.)



1. In a phonograph sound box or reproducer, a casing, a diaphragm mounted in the casing, and a relatively heavy wire coil attached to the rear side of the diaphragm and extending therefrom, substantially as described.

1,393,435. PROCESS OF TREATING PEAT AND SIMILAR SUBSTANCES. FRED T. DOW, Bangor, Me. Filed Oct. 24, 1919. Serial No. 332,912. 5 Claims. (Cl. 44—27.)

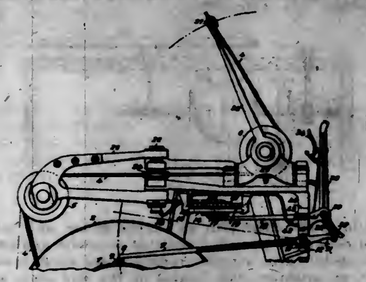


4. The process of treating peat which consists in draining the water from the peat by gravity, alternately forcing air through the drained peat to loosen it up and partially dry it and drawing air through the loosened peat in a direction opposite to that in which it was forced through the peat.

1,393,436. WINCH. GAETANO FERIANI, Rome, Italy, assignor to Societa Brevetti Feriani, Rome, Italy. Filed Mar. 8, 1920. Serial No. 363,976. 5 Claims. (Cl. 242—158.)

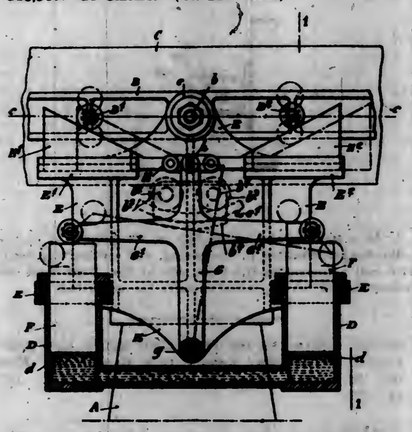
1. In a winch, means for the automatic distribution in regular windings of the cable upon the winch drum,

said means being characterised by the combination of an arm provided with a wedge contacting with the cable threads upon the drum, with a swinging frame for distributing the cable in regular windings, the movement of



this frame being synchronised with the movements of the arm, said movements being transmitted from one member to the other by means of suitable positive driving connections.

1,393,437. STABILIZING APPARATUS FOR SIGHTING INSTRUMENTS. VICTOR HONORÉ GODILLON, Paris, France, assignor to Société d'Optique et de Mecanique de Haute Précision, Paris, France, a Joint-Stock Company. Filed Dec. 22, 1919. Serial No. 346,589. 13 Claims. (Cl. 114—191.)



1. In stabilising apparatus for sighting instruments mounted on unstable objects, a support fixed to the unstable object, a rockable carrier for the sighting instrument mounted on said support, a tank containing mercury mounted on said support to assume the deviations of the unstable object, the mercury being free to flow to its normal level during the deviations of the tank, and means controlled by the movement of the mercury during deviations of the unstable object for moving the rockable carrier to return the sighting instrument to its initial horizontal position when displaced from the same by deviation of the unstable object.

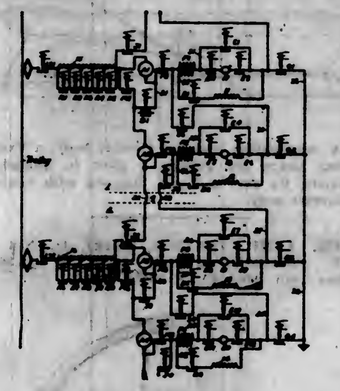
1,393,438. TRAP. ALBERT P. GRIMM, Toms River, N. J. Filed Nov. 1, 1919. Serial No. 335,161. 4 Claims. (Cl. 43—65.)

1. In a trap, the combination of a foraminous circular body, a partition extending diagonally through the body and dividing it into a lower entrance compartment, and an upper confining compartment, and a non-return lead open-



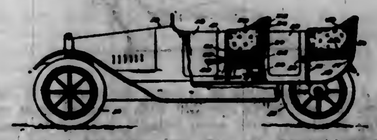
ing through said partition and extending into the confining compartment.

1,393,439. SYSTEM OF CONTROL. ARTHUR J. HALL, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 5, 1918. Serial No. 210,520. 7 Claims. (Cl. 172—179.)



1. In a system of control, the combination with a plurality of electric vehicles, and a plurality of dynamo-electric machines located upon each vehicle, of means for electrically interconnecting said vehicles to effect series operation of all said machines, and means for effecting series-parallel and parallel operation of said machines with the sets of machines on the respective vehicles electrically disconnected.

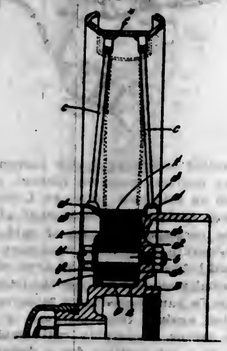
1,393,440. CONVERTIBLE VEHICLE-BODY. EDWARD L. HAMILTON, McCrory, Ark. Filed Oct. 31, 1919. Serial No. 334,836. 3 Claims. (Cl. 155—7.)



1. A convertible vehicle body including a front seat having a hinged back and a removable cushion provided

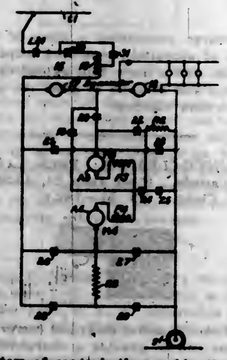
with a rigid backing, partitions traversing the body and forming a compartment below said seat, an auxiliary cushion having a yieldable side and a rigid backing hinged directly to the forward partition, brackets within said compartment for supporting the auxiliary backing in an inverted position beneath said first mentioned cushion whereby the yieldable side of the auxiliary cushion is entirely free when within the compartment, and means on the vehicle body immediately adjacent the forward partition to support the auxiliary cushion in advance of the first named cushion.

1,393,441. DETACHABLE WIRE-SPOKED WHEEL. WILLIAM HENRY HEALES, Coventry, England, assignor to The Dunlop Rubber Company, Limited, London, England, a British Company. Filed Jan. 3, 1921. Serial No. 434,672. 5 Claims. (Cl. 301—9.)



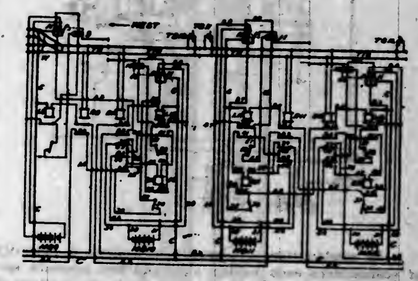
1. A detachable wire spoked wheel in which the boss consists of a circular sheet metal box-like portion of approximately the same width as the boss of an ordinary detachable wooden or pressed steel wheel and having a central hole fitting the cylindrical part of the axle, outwardly directed peripheral flanges on said circular portion to which the inner ends of the wire spokes are connected and a circular series of sleeves situated within said circular box-like portion and adapted to register with the existing attaching bolts for retaining the wheel in place.

1,393,442. CONTROL SYSTEM. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 27, 1916. Serial No. 122,375. 2 Claims. (Cl. 172—179.)



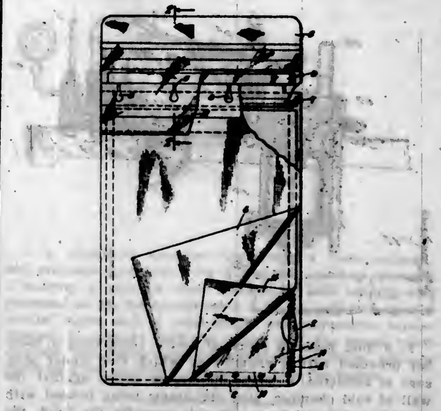
1. In a system of control, the combination with a supply circuit, and means for generating different voltages lower than that of said supply circuit, comprising a dynamo-electric machine having a plurality of armature windings, of a plurality of motors connected in series relation, means for connecting said armature windings in parallel relation to the respective motors and means for subsequently connecting the motors in parallel relation.

1,393,443. ELECTRIC SIGNALING SYSTEM. ROBERT J. HEWETT, Westfield, N. J. Filed Apr. 14, 1917. Serial No. 161,948. 89 Claims. (Cl. 246—33.)



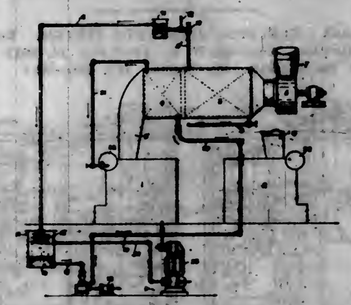
4. In a signaling system, the combination of a stretch of track; a signal; a control circuit for said signal arranged when closed to cause the signal to give one indication and when open to give another indication; a normally-energised relay having neutral and polar contacts in said circuit; means operable by an east-bound train when it has reached a certain point in said stretch for closing said circuit at one of said contacts; and means operable by a west-bound train when it has reached a point farther east in said stretch for opening said circuit at the other of said contacts.

1,393,444. STENCILING MATERIAL. EDWARD W. HILL, Chicago, Ill., assignor to A. B. Dick Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 27, 1920. Serial No. 361,714. 20 Claims. (Cl. 41—8.5.)



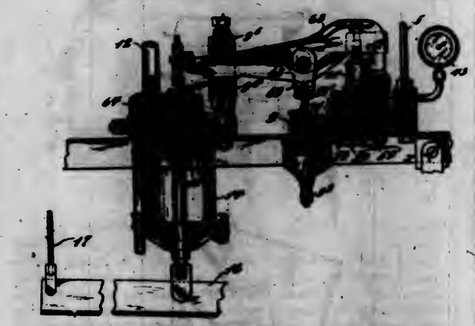
1. In stenciling material, the combination of a hard flexible entirely non-absorbent carrier-sheet, a stencil-sheet of dry but hygroscopic character, and an absorbent backing-sheet adapted to be inserted between said stencil and carrier sheets, said stencil and carrier sheets being adapted and arranged for ready and repeated attachment to and detachment from each other.

1,393,445. STEAM-BOILER ECONOMIZER SYSTEM. DAVID S. JACOBUS, Jersey City, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Feb. 27, 1918. Serial No. 219,269. 14 Claims. (Cl. 122—421.)



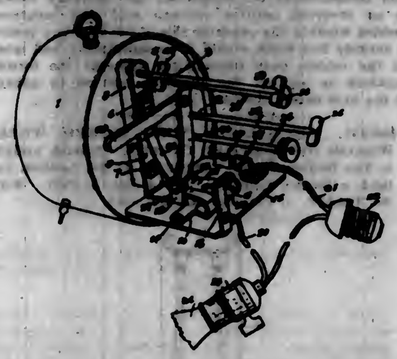
1. In combination, a plurality of boilers, a plurality of economizers each having high and low pressure sections, means for maintaining the water in the sections of each economizer at different pressures, individual tanks arranged to permit the escape of air or gas from the water and serving as detectors to indicate the formation of steam, means for conducting the water heated in the low pressure sections to said tanks, a common tank and means for conducting the water from said individual tanks to said common tank, and means for distributing the water from said common tank to the several high pressure sections of the economizers and from the latter to the boilers.

1,393,446. FLUID-PRESSURE OPERATING DEVICE. DAVID S. JACOBUS, Jersey City, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Oct. 16, 1918. Serial No. 258,430. 8 Claims. (Cl. 236—36.)



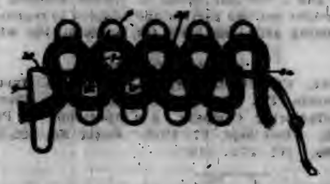
1. A fluid pressure operated device, comprising a member provided with a chamber to which fluid under pressure is admitted, a metal diaphragm sealed against the wall of said chamber, said diaphragm being formed with a central depression on the side opposite the fluid, the depression being surrounded by a corrugation presenting a concave surface to the fluid, a controlling mechanism, a strut seated in said depression and connected to said controlling mechanism, and stops for limiting the movement of said diaphragm in both directions to a narrow range thereby keeping the stresses set up in the diaphragm within the elastic limit of the diaphragm material.

1,393,447. AUTOMATIC CLOCK-CONTROLLED SWITCH-OPERATING DEVICE. GUSTO JANSSONIUS, Winnipeg, Manitoba, Canada. Filed Dec. 19, 1919. Serial No. 346,604. 1 Claim. (Cl. 200—39.)



A time controlled switching device comprising a base plate, stationary contacts mounted thereon, an L shaped bracket mounted on said base plate, an L-shaped contact having the lower horizontal arm thereof pivotally supported upon the corresponding arm of said bracket and arranged to cooperate with said stationary contacts, a spring interposed between the vertical arms of the bracket and contact normally tending to force the latter outwardly from the bracket, a handle operative to move the bracket to a set position against the resistance of said spring, and releasable means engageable with said bracket to hold the same in a set position for a definite period of time adapted to automatically release the contact at a predetermined time.

1,393,448. DEVICE FOR WAVING HAIR. ADOLF KERN, Cleveland, Ohio. Filed Mar. 16, 1921. Serial No. 451,263. 2 Claims. (Cl. 132—42.)



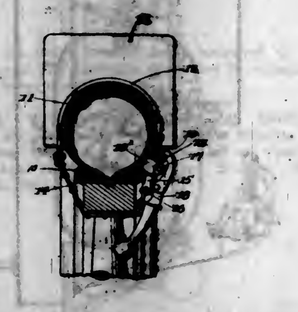
1. A hair waver comprising a piece of wire bent to form a series of oppositely presented loops arranged in zig-zag relation, and a draw tape extending transversely across the loops and movable to draw the same together to bind hair wound thereon.

1,393,449. KNIFE-CLEANER. PETER LAMB, Winnipeg, Manitoba, Canada. Filed June 24, 1920. Serial No. 391,889. 1 Claim. (Cl. 51—182.)



A device of the character described comprising a handle reduced at one end to provide a sharpened spur at the lower side thereof and a shoulder portion above the spur, a rubbing head impaled on the spur and abutting said shoulder portion and a split clamping band extending around the rubbing head in clamping engagement therewith and having the ends thereof fastened to the sides of the handle.

1,393,450. MUD-LUG FOR AUTOMOBILE-WHEELS. FRANCIS W. MCGANN, Baltimore, Md. Filed Oct. 20, 1920. Serial No. 418,144. Renewed Sept. 3, 1921. Serial No. 496,535. 1 Claim. (Cl. 152—14.)



A locking means for the mud lug of an automobile wheel comprising a flexible element connected with the lug, a block pivotally connected with the flexible element, a lever pivotally connected with the block, and a hook pivotally connected with the lever and engageable with the lug, said block being formed with a nose for engagement with a portion of the wheel to prevent inward pivotal movement of the parts when inward pressure is exerted against the said parts.

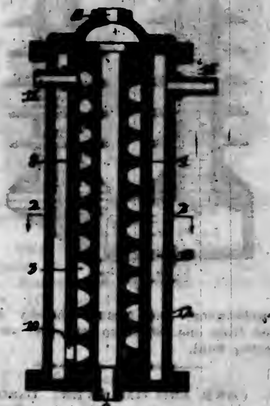
1,393,451. PACKAGE FOR BELT-HOOKS. WILLIAM T. NICHOLSON, Blackpool, England. Filed July 6, 1920. Serial No. 394,346. 2 Claims. (Cl. 1—56.)



1. A package for wire belt hooks comprising a sheet of flexible material provided with a series of slots into which the looped ends of the belt hooks can be placed, separate strips of corrugated sheet material so positioned and attached to the said sheet adjacent to the said slots as to allow the corrugations to receive the arms of the hooks when the same are positioned within said slots, and ends on said sheet material adapted to be folded around the ends of the hooks and secured to hold the hooks in position within the package.

1,393,452. HEAT-INTERCHANGER. MAX VON RECHENBERG, New York, N. Y., assignor to Air Reduction Company, New York, N. Y., a Corporation of New York. Filed Feb. 27, 1917. Serial No. 151,158. 2 Claims. (Cl. 257—246.)

2. A heat interchanger comprising a central conduit consisting of a metal which is a relatively good conductor of heat, said conduit having a spiral passageway formed upon the exterior thereof, means for supplying a cold or a liquefied gas to the passage through the said conduit, a tubular member surrounding and fitting closely against the exterior of the said conduit to close the outer sides of the said spiral passageway and to support and reinforce the said conduit to resist internal pressure and means for delivering a relatively warm fluid to the said spiral passageway and conveying the same therefrom.



1,393,453. SCRUBBING-MACHINE. ALFRED HENRY ROWE, Winnipeg, Manitoba, Canada. Filed Apr. 26, 1920. Serial No. 376,698. 3 Claims. (Cl. 15—14.)

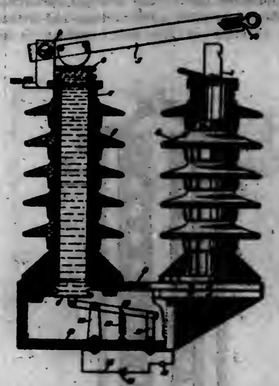


2. A scrubbing machine comprising a main supporting platform provided with a vertical aperture forming a bearing, a vertical shaft slidable in said bearing and equipped at its lower end with a brush, a motor geared to the upper end of said shaft, and adjustable means serving to support both the motor and the brush shaft whereby the latter may be adjusted vertically without disturbing its operative connection with the motor.

1,393,454. DISCONNECTING-SWITCH. BERTRAND P. ROWE, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 9, 1920. Serial No. 415,860. 7 Claims. (Cl. 200—50.)

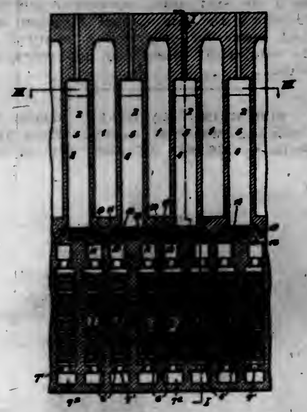
1. An insulator comprising an expansible tubular member having a body of fluid confined therein.

4. In combination, a main-circuit switch, an auxiliary-circuit switch, a confined body of insulating fluid inter-



posed therebetween, and means whereby movement is transmitted from one switch to the other switch through the insulating fluid.

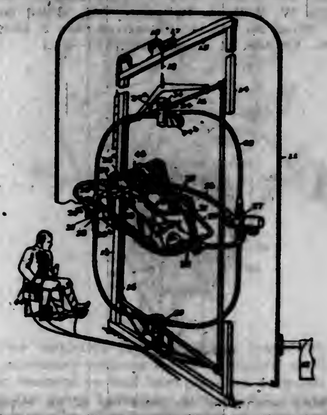
1,393,455. COKE AND GAS OVEN. DANIEL M. RUGG, Cleveland, Ohio, assignor to The Gas Machinery Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 30, 1917. Serial No. 188,924. 2 Claims. (Cl. 202—9.)



1. In apparatus for the production of gas and coke, the combination of a coking chamber; heating units respectively located upon opposite sides of said chamber and each consisting of two connected combustion chambers; a pair of regenerator sections, one of said combustion chambers of each such heating unit being provided with an outlet; ducts arranged to connect each of the other chambers of said heating units with each of said regenerator sections; and means independent of said ducts for introducing fuel gas into said last-named combustion chambers.

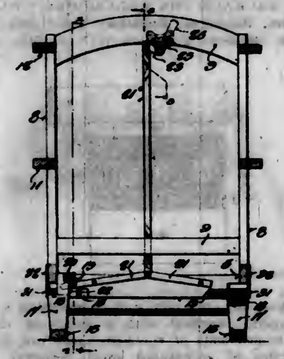
1,393,456. ORIENTATOR. WILLIAM GUY RUGGLES, New York, N. Y. Filed Sept. 9, 1918. Serial No. 253,218. 28 Claims. (Cl. 244—1.)

1. A gimbal ring construction having one of its rings mounted for rotary movement about an axis in the plane of said ring, and power driving means providing for said mounting, said means including a support, a main shaft disposed concentric with said axis and loosely journaled in said support, a stub shaft constituting an extension of said main shaft and rotatable relative thereto, a power shaft carried by said support, a driving slip



clutch between said power shaft and said stub shaft, a planetary gear connection between said stub shaft and said main shaft, said ring loosely mounted on said main shaft and a gear connection between said main shaft and said ring whereby the ring is rotated from said power shaft.

1,393,457. ADJUSTABLE CHAIR. OSCAR H. SCHRAM, Oshkosh, Wis. Filed Apr. 26, 1920. Serial No. 376,652. 3 Claims. (Cl. 155—105.)



1. A chair comprising a seat member, support legs for said seat member movable relative thereto, a pair of levers pivotally connected with the seat member and engaging said support legs, a common control lever, link means connecting said common control lever and said pair of levers and means for holding said common control lever against movement.

1,393,458. CATENARY TROLLEY-CLAMPING BAR. PAUL G. SCHWARM, Indianapolis, Ind., assignor to Dow Electric and Manufacturing Company, Indianapolis, Ind., a Corporation. Filed Dec. 22, 1919. Serial No. 346,628. 6 Claims. (Cl. 191—41.)

4. A catenary trolley-wire hanger, comprising a pair of wire clamping members, a suspensory strap fixed per-

manently at one end to one of said members and detachably engaged at its opposite end with the other



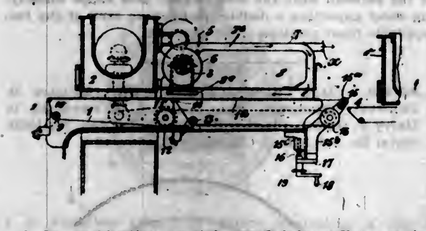
member, the latter member being narrowed at its strap engaging end and rotatably connected in clamping union with the other member.

1,393,459. WING-NUT. BENJAMIN H. SMITH, Turtle Creek, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 16, 1919. Serial No. 271,436. 6 Claims. (Cl. 85—32.)



1. In a clamping device, the combination with a screw-threaded member and a frangible member, of a nut device for coöperation with said screw-threaded member comprising an interiorly-threaded body member, a yieldable washer for engagement with said frangible member, and a relatively-thin washer of pliable material mounted rotatably on said body member having a portion bent into holding relation to said yieldable washer.

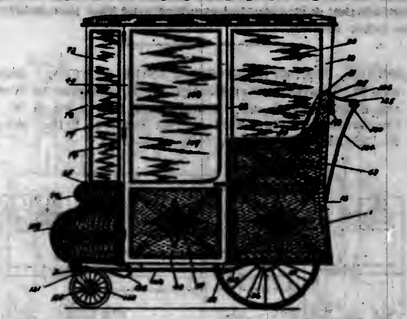
1,393,460. MACHINE FOR COATING CHOCOLATE BONBONS. ASBJORN SONSTHAGEN, Leytonstone, England. Filed Mar. 25, 1920. Serial No. 368,603. 8 Claims. (Cl. 91—3.)



1. In combination, receiving and intermediate moving surfaces arranged to provide receiving faces; a discharge surface at the discharge end of the intermediate moving surface and arranged to provide a carrying face off-set below said receiving faces; and means disposed above said receiving and discharge faces for coating bodies carried on said moving surfaces.

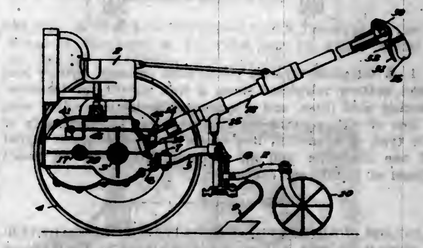
1,393,461. CONVERTIBLE ROLLING CHAIR. CHARLES BREWSTER STEELE, Philadelphia, Pa. Filed Dec. 16, 1919. Serial No. 345,868. 22 Claims. (Cl. 155—30.)

6. A rolling-chair having traction-wheels and a body provided with foundational structure; side and rear upright structure provided with means adapted to hold closures; front vertical structure provided with means adapted to hold closures; doorway openings intermediate the front and side vertical structure; seat structure adjacent the side and rear vertical structure protruding into the doorway openings thereby providing enlarged area within the seat structure; traction-wheels of enlarged diameter within the enlarged seat structure area, and door structure fitting the doorway openings projecting in extent be-



yond the protrusion of the seat structure provided with means adapted to hold closures.

1,393,462. TRACTION-MACHINE. GEORGE T. STRITE, Minneapolis, Minn. Filed Aug. 4, 1916, Serial No. 113,112. Renewed Feb. 27, 1920. Serial No. 361,720. 9 Claims. (Cl. 180—70.)

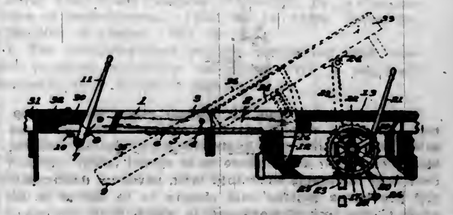


1. A traction machine comprising a frame, a source of motive power thereon, traction means for said frame, a crank shaft operated from said source of motive power, a gear having a driving connection with said crank shaft and provided with friction surfaces, clutch members having independent driving connections with said traction means and mounted to engage said friction surfaces respectively for driving said means from said gear, and mechanism for operating said clutch members.

1,393,463. EXPLOSIVE. WILLIAM BAYARD STURGIS, Chicago, Ill., assignor to General Explosives Company, Chicago, Ill., a Corporation of Missouri. Filed May 16, 1921. Serial No. 470,106. 17 Claims. (Cl. 52—7.)

10. As a new composition of matter, an explosive containing dinitrotoluol, a perchlorate, an oxidising agent, a sulfid of a metal and a reducing substance.

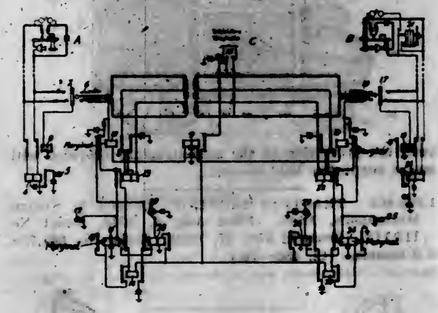
1,393,464. WAGON-DUMP. HARRY E. SURFACE, Bloomington, Ill. Filed Sept. 13, 1920. Serial No. 409,956. 6 Claims. (Cl. 214—49.)



1. In a wagon dump the combination of a sectional dump log, a hinge connection between the sections thereof,

means for raising the section of the dump log while the other section is lowered, and means for raising the section of the dump log independently of the movement of the other section.

1,393,465. TELEPHONE-EXCHANGE SYSTEM. DAWSON M. TAGGART, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 4, 1919. Serial No. 321,704. 11 Claims. (Cl. 179—73.)



1. A telephone system comprising common battery and local battery telephone lines, a link circuit for interconnecting said lines, and a signaling device controlled over a line of either character and operating independently of the type of connected line to furnish a disconnect signal of one character and an automatically sustained recall signal of a different character.

1,393,466. PNEUMATIC-DESPATCH-TUBE CARRIER. FRED E. TAISEY, Lowell, Mass., assignor to The Lamson Company, Boston, Mass., a Corporation of New Jersey. Filed June 12, 1917. Serial No. 174,369. 8 Claims. (Cl. 243—35.)



8. A carrier for despatch systems comprising a receptacle having a closure attached thereto, latch parts for said closure to retain it in its receptacle closing position, means to permit said closure to be moved bodily outward from said receptacle when said latch parts are disengaged, and provisions causing said closure to be moved at an angle to the line of movement in which it travels when being moved bodily outwardly.

1,393,467. PROCESS FOR PRODUCING SEPARATORS. CHARLES J. TRAUTMANN, New York, N. Y. Filed Dec. 26, 1918. Serial No. 268,536. 8 Claims. (Cl. 204—29.)

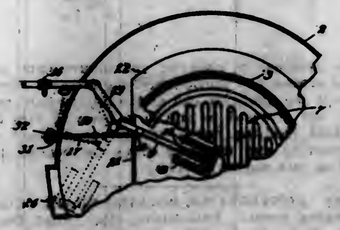
1. The method of producing a separator member, which consists in immersing a suitable material in a liquid mixture of a substance capable of forming a gelatinous medium and a coagulant therefor, said mixture gelatinizing within said material after an appreciable lapse of time.

1,393,468. UNDERGARMENT. BURT W. THAYER, Minneapolis, Minn. Filed June 28, 1920. Serial No. 391,669. 1 Claim. (Cl. 2—144.)



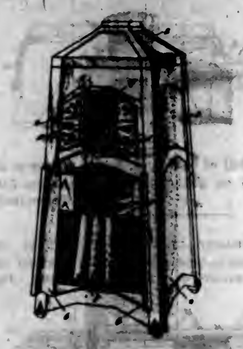
A garment of the class described having a central vertical opening with overlapping edges, and means for securing said edges together, of an underlying sheet having one portion thereof permanently secured inside of the front portion of the garment at one side of its vertical opening, and the remaining portion of the sheet projecting beyond the vertical opening line of the garment, and provided with means for securing its face edge to the inside wall of the garment near the side thereof, said single underlying sheet imparting a double thickness to each of the two separable front portions of the garment.

1,393,469. COAL-FURNACE LIGHTER. RICHARD B. TOWNLEY, Cincinnati, Ohio, assignor of two-fifths to Harry F. Graber, Cincinnati, Ohio. Filed Jan. 22, 1920. Serial No. 353,151. 6 Claims. (Cl. 158—10.)



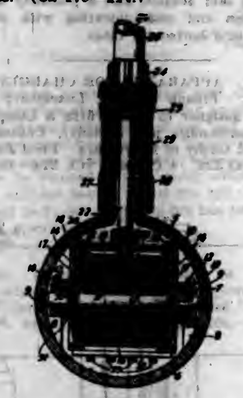
1. A coal or coke lighter within a furnace comprising a vertically perforated U-shaped member, a pivotally mounted gas tube connected to said U-shaped member and having perforations adjacent thereto, a pivotal connection between said tube and the gas supply pipe, a pivoted handle adapted to swing said gas burner on its pivot outwardly in position for lighting the gas and then inwardly to near the center of the space for lighting the coal or coke.

1,393,470. PHONOGRAPH-CABINET. JACOB H. WEISS, Brooklyn, N. Y. Filed Aug. 14, 1920. Serial No. 403,606. 4 Claims. (Cl. 274—2.)



1. A phonograph comprising a cabinet having opposite lateral walls converging above the same, and sound reproducing and amplifying means operatively supported within the cabinet.

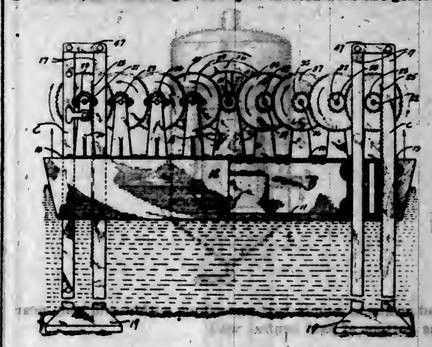
1,393,471. SUBMARINE SIGNALING. RAYMOND L. WHOEL, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 9, 1919. Serial No. 329,453. 16 Claims. (Cl. 170—114.)



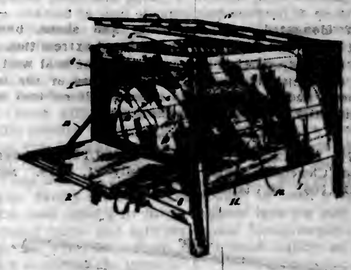
1. A vibration responsive device comprising a container adapted to be submerged, and a vibration responsive element mounted therein, said element comprising electromagnetic means responsive to movement of the container in one direction and unresponsive to movement of the container in another direction.

1,393,472. TIDE-MOTOR. HARRY WILLIAMS, Reburn, Va. Filed Feb. 28, 1920. Serial No. 362,045. 4 Claims. (Cl. 290—42.)

1. A tide motor comprising a plurality of spaced pairs of standards, a barge slidably mounted on the standards, oppositely disposed rack bars formed on the inner faces of the standards, an operating shaft rotatably carried by the barge, rotatable shafts carried by the barge and arranged intermediate the rack bars, pinions meshing with the rack bars, and carried by the second mentioned shaft, speed advancing mechanism operatively connecting the second mentioned shafts with the operating shaft, a generator, means operatively connecting the shaft with the generator, and a storage battery connected with the generator, an electric motor operatively connected to the shaft, and means electrically connecting the battery with the motor.



1,393,473. MATRIX-SCORCHING OVEN. SAMUEL TULLY WILLSON, Brooklyn, N. Y. Filed Aug. 11, 1919. Serial No. 316,757. 9 Claims. (Cl. 34—18.)



1. In a matrix scorching oven, a housing having a baking compartment therein, a closing member provided for the baking compartment, a semi-cylindrical member within the compartment formed with an arcuate holding surface, means for heating the said compartment and semi-cylindrical member, means for holding a matrix in place on the semi-cylindrical member, and means for causing the holding means and the semi-cylindrical member to be always in position to receive a matrix when the closing member is open.

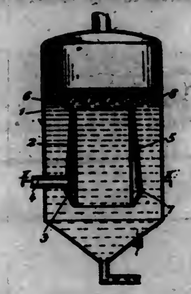
1,393,474. MANUFACTURE OF LEAD ARSENATE. ROBERT E. WILSON, Cambridge, Mass., assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 1, 1919. Serial No. 280,164. 8 Claims. (Cl. 23—12.)

1. The hereindescribed product comprising lead arsenate particles intimately associated with a relatively chemically inert colloid of organic origin.

1,393,475. HEAT-INTERCHANGE DEVICE. ELIAS WIESE-PEST, Aarau, Laurenzvorstadt, Switzerland. Filed Nov. 1, 1919. Serial No. 336,027. 3 Claims. (Cl. 257—236.)

2. A heat interchange device having a vertical axis comprising a vessel, a hollow annular heating body within

said vessel having a conical wall and a cylindrical wall and narrower in cross-section at the top than at the bottom,



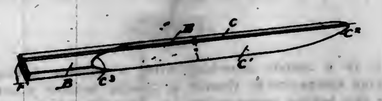
and means to supply heating medium within said body near the bottom of said conical wall.

1,393,476. WELTING. ERNEST A. YOUNG, Cleveland, Ohio. Filed Feb. 14, 1919. Serial No. 276,974. 18 Claims. (Cl. 36—78.)



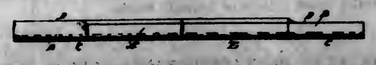
7. An elongated welt for boots and shoes, having straight edges and flat faces, and reduced extremities, one edge of the body portion and extremities of said welt retaining substantially the original thickness of the body throughout, and each extremity of said welt reduced upon a substantially longitudinal, median plane.

1,393,477. PROCESS FOR MAKING WELTS. ERNEST A. YOUNG, Cleveland, Ohio. Filed July 21, 1919. Serial No. 312,166. 16 Claims. (Cl. 12—146.)



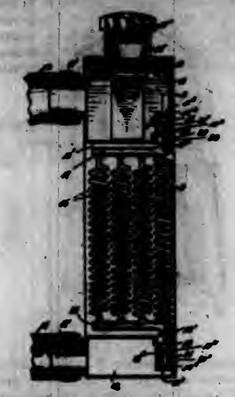
1. The hereinbefore described method of producing a multiple number of welts each welt having reduced extremities, from an elongated integral welt having straight sides and edges, consisting in, dividing said welt at intervals by cuts in median planes, longitudinally directed therein, the extremities of said cuts emerging in opposite longitudinal surfaces of said welt, then separating the welts thus formed and forming a longitudinal groove upon the freshly cut surfaces of the extremities of each welt, said grooves traversing the original surfaces of the bodies of said welts.

1,393,478. WELT OR RAND. ERNEST A. YOUNG, Cleveland, Ohio. Filed Apr. 5, 1921. Serial No. 458,672. 12 Claims. (Cl. 36—78.)



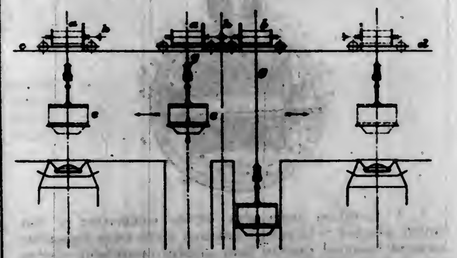
1. A strip of welting comprising a prismatic body portion and reduced substantially prismatic end portions extending from the body portions, the two ends being projections of different parts of the cross-section of the body portion.

1,393,479. RADIATOR FOR MOTOR-VEHICLES. ROBERT M. SABUCHA, Waterbury, Conn. Filed June 26, 1920. Serial No. 391,992. 3 Claims. (Cl. 257—129.)



1. In a radiator for motor vehicles, a pair of superposed tanks each formed in front with an inwardly projecting rib having a number of independently controllable circulation passages, nozzles projecting outwardly from said passages, a corresponding number of circulation units, each composed of two superposed horizontal tubes the rear ends of which are closed and the front ends are open and removably joined to said nozzles, and a plurality of coils extending between and communicating with each superposed pair of said horizontal tubes.

1,393,480. APPARATUS FOR CHARGING SHAFT-FURNACES. PIERRE RENDEL, Luxemburg-Hollerich, Luxemburg, assignor to Paul Würth & Compagnie (Societe en Commandite par Actions), Luxemburg-Hollerich, Grand Duchy of Luxemburg. Filed July 5, 1918. Serial No. 243,325. 4 Claims. (Cl. 214—18.)



1. The combination with two independently transportable hoisting drums, a charge vessel suspended from each drum, a separate driving shaft for each drum, and coupling members for connecting said shafts when the drums are brought together, whereby the weights of the vessels are balanced during the raising and lowering thereof.

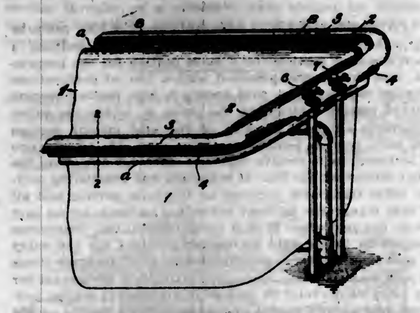
1,393,481. GAS-COOKER. HARALD ALBRECHTSEN and SØREN IVAN IVARSEN, Copenhagen, Denmark. Filed Mar. 2, 1920. Serial No. 363,661. 1 Claim. (Cl. 158—117.)

In a gas-cooker, a gas-pipe fitted to the body of the gas-cooker, at the inner end of said gas-pipe a vertical burner-tube, around said burner-tube a second burner-tube telescoping thereon, and carrying at its upper end the burner proper, said second burner-tube having at its lower end a flange, a bell-crank pivoted to the body of the gas-cooker, the forked inner end of said bell-crank engaging under said



flange, an eccentric segment coupled to the stem of the gas-valve, said eccentric segment acting on the outer end of the said bell-crank.

1,393,482. BATHTUB. MICHAEL ABRAHAM and LEONARD JOSEPH DENNIS, Toronto, Ontario, Canada. Filed Jan. 21, 1921. Serial No. 439,041. 5 Claims. (Cl. 4—27.)



1. A bathtub having the upper part of its wall bent to form an overflow channel extending around the top of the tub, said channel being open at top, and the outer wall of the channel extending above its inner wall and means for admitting water to said channel; whereby the walls of the tub may be warmed by hot water overflowing from the channel without having to fill the tub, and whereby the walls may be flushed after the tub has been used, substantially as described.

1,393,483. ELECTRODE. JOSEPH M. ASKIN, Chicago, Ill., assignor to Stuart Products Corporation, Chicago, Ill., a Corporation of Illinois. Filed Dec. 5, 1919. Serial No. 342,818. 8 Claims. (Cl. 204—38.)



1. An electrode for a battery comprising a carbon core, depolarising material surrounding said core and an envelop surrounding said depolarising material, said envelop being of a material presenting relatively low resistance to the flow of current therethrough and having the property of permitting moisture to pass therethrough for rendering the same active, but preventing the escape therethrough of solid particles of the depolarising material.

1,393,484. AUTOMOBILE WINDOW-OPERATING DEVICE. EMRY BALOUGH, Poughkeepsie, N. Y. Filed Oct. 29, 1920. Serial No. 420,437. 1 Claim. (Cl. 268—4.)



An automobile door having a window opening and including an outer door panel and an inner lining board spaced from said panel, a window pane slidably arranged in relation to said opening and adapted to be brought out of alinement with the same into the space between said panel and lining board, a vertically extending frame secured to the inner face of said lining board, a vertically extending screw-threaded bodily stationary spindle journaled in said frame, a nut fixed to and projecting below said pane in mesh with said spindle, a transverse frame member rigidly secured to said first-mentioned frame, a shaft extending through and beyond said lining board rotatably mounted in said first-mentioned frame and in said transverse frame member, a bevel pinion fixed to said spindle, a bevel gear fixedly attached to said shaft in mesh with said pinion, said bevel gear being disposed between said first-mentioned frame and said transverse frame member and held by the latter in position, and a crank-handle on said shaft for actuating the latter.

1,393,485. SECTIONAL BURIAL-VAULT. JOHN D. BARBER, West Park, Ohio. Filed Mar. 3, 1919. Serial No. 280,297. 1 Claim. (Cl. 72—7.)



A burial vault comprising separate end, side and bottom sections adapted to be assembled and cemented together, the end and side sections having each a right angled recess along its upper inner edge and provided with inwardly and downwardly sloping upper edges outside of said recesses and inclined thereto, and a slab forming a cover for said vault having a sloping top surface at its ends and sides corresponding to the slope of the edges of the sides and ends and relatively lower than the outer edges of the said side and end slabs, and which, together with the sloping edges of the side and end slabs, form a broad continuous shallow sealing gutter above the joint line between said parts.

1,393,465. METHOD OF MAKING SHOES. Ernest C. Beaumont, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 21, 1918. Serial No. 263,536. 11 Claims. (Cl. 12—142.)



1. That improvement in methods of making shoes which consists in assembling upon a last an upper and an innersole having its margin projecting beyond the bottom of the last, staple lasting the toe and heel portions of the upper to the innersole, removing the last, stitching the shoe upper to the shoe along the sides of the shoe, reinserting the last, and completing the shoe in the usual manner.

1,393,467. NECK-YOKE FASTENER. Frank W. Berghs, Willow Lakes, S. D. Filed May 21, 1919. Serial No. 298,741. 1 Claim. (Cl. 278—51.)



In combination with a draft pole or tongue and neck-yoke, a neck-yoke fastener comprising a metallic member secured upon the end of the pole or tongue and having a downwardly extending projection spaced from the end thereof, a resilient member secured upon the pole or tongue and extending along the under side thereof in spaced parallel relation thereto and engaging against the end of said projection, the forward end of said resilient member being curved upwardly and rearwardly to define a lip engaging against the under side of said metallic member forwardly of and adjacent the projection thereon, and a forwardly extending handle formed on the forward extremity of said resilient member adjacent its point of contact with said metallic member, said lip being engaged by the attaching ring of the neck-yoke when a forward pull is exerted and said projection being engaged by the ring when a rearward pull is exerted upon the neck-yoke.

1,393,488. FUSELAGE. Archibald Black, Brooklyn, N. Y., assignor, by mesne assignments, to L-W-F Engineering Company, Inc., College Point, Long Island, N. Y., a Corporation of New York. Filed Mar. 21, 1917. Serial No. 156,339. 16 Claims. (Cl. 244—30.)



2. An annular bracing means having alternating forwardly and rearwardly directed tongues at its outer edge.

2,393,469. SERVICE CHECK AND RECEIPT. Abram M. R. Bean, New York, N. Y. Filed Apr. 28, 1920. Serial No. 230,653. 2 Claims. (Cl. 283—60.)



1. A service check for restaurants and the like, comprising a body bearing suitable printed matter defining a guest's receipt portion and a main portion for the proprietor, said check being provided with a line of perforations between said portions, said guest's receipt portion bearing printed matter instructing the guest to retain the same, transverse adjacent portions of the said receipt portion and main portion being disposed at each side of said line of perforations to receive duplicate markings one above the other indicating the time of beginning and completing service, other transverse portions on the main portion and all of said transverse portions extending entirely across said check, the side edges of said check constituting transverse limitations to the said transverse portions for the entry of said time markings and for the entry of separate items on said main portion, spaces approximately designated for the entry of the total on said main and guest's receipt portions, said guest's receipt and main portions having each a space for a corresponding waiter's number and corresponding spaces for like check numbers, and a protective band extending longitudinally of the face of the check being of less width than the check to provide blank longitudinal rows of spaces at the opposite ends of said transverse portions and at opposite sides of said band.

1,393,490. ANTISLAP DEVICE FOR PISTONS. Charles F. Bradley, Hobart, Ind. Filed Oct. 2, 1920. Serial No. 414,229. 1 Claim. (Cl. 74—109.)



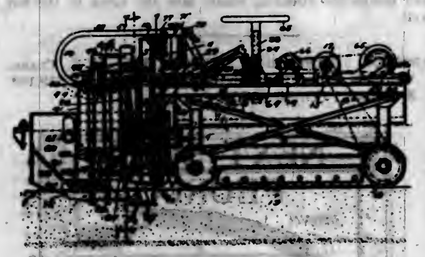
The combination with a piston provided with a piston ring groove and a piston ring mounted therein, of a substantially circular resilient split band positioned within the piston ring groove behind the piston ring and having its extremities curved inwardly and spaced apart and abutting one wall of the piston ring groove, the bowed parts being normally flexed and adapted, when the piston reaches a point in the cylinder where the piston will have side play, to assume their normal position to move the piston ring against the cylinder to prevent the piston from movement laterally.

1,393,491. TROLLEY-HANGER. Leland F. Brabrook, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 30, 1920. Serial No. 400,691. 4 Claims. (Cl. 191—42.)



2. The combination with a stud or bolt and a lock washer therefor, of a yieldable plain washer for holding the lock washer in position and permitting the latter to transmit its locking movement therethrough.

1,393,492. FILTER-CLEANING APPARATUS. Harry A. Brooks, Glendale, Calif., assignor to Blaisdell Company, Los Angeles, Calif., a Corporation. Filed Mar. 23, 1917. Serial No. 156,020. 12 Claims. (Cl. 210—128.)



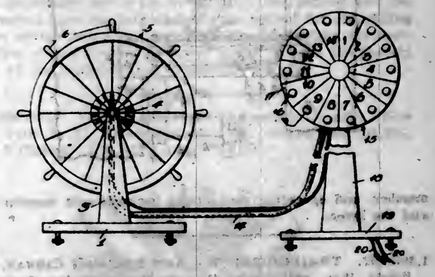
1. In a filter cleaning apparatus, a caisson containing a chamber open at its lower end and adapted to rest on the surface of a filter bed, carriage means for moving the caisson over the surface of the filter bed, sand cleaning appliances in and beneath said caisson, both the caisson and the cleaning appliances being mounted on the carriage means to be vertically movable thereon independently of each other.

1,393,493. OPEN-HEARTH FURNACE. Vern B. Browne, Tarentum, Pa. Filed June 28, 1919. Serial No. 307,469. Renewed Aug. 6, 1921. Serial No. 490,809. 6 Claims. (Cl. 263—45.)



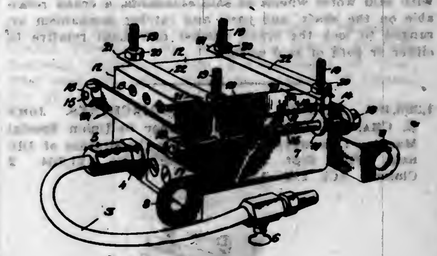
1. The combination with a hearth, of regenerators arranged to be alternately utilized and central walls each provided with a through port to form separators between said hearth and said regenerators.

1,393,494. AMUSEMENT DEVICE. Henry D. Shuart, Springfield, Mass. Filed Dec. 9, 1919. Serial No. 343,462. 1 Claim. (Cl. 46—56.)



A device of the class described, a rotatably mounted wheel, a contact carried by an extension, having a sleeve-like extension on its hub, a flash board of insulating material disposed adjacent thereto and having an annular series of insulated contacts on the face opposed to said extension, said contacts being arrranged in the path of said wheel carried contact, an electrically connected tension arm carrying a shoe bearing on said sleeve, a dial having one face divided into segments, a number and a light bulb on each segment, conductor wires connecting said lights and the contacts of said flash board.

1,393,495. VULCANIZER. George H. Bunnell and Elias E. Titus, Midway, Utah. Filed Apr. 11, 1921. Serial No. 460,180. 4 Claims. (Cl. 18—18.)

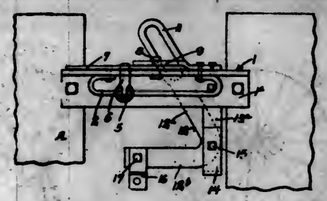


1. In a vulcanizer, the combination with the exhaust of an engine, a pipe communicating therewith at one end, a vulcanizer secured rigidly to the engine and having its vulcanizing chamber communicating with the other end of said pipe, a plate fitting upon said vulcanizing chamber, a clamping block above said plate, a clamping frame for securing said block in position, and a valve or cock in said pipe for controlling the heat to said vulcanizing chamber.

1,393,496. SWITCH-THROW. Peter Burlesca, Library, Pa. Filed Apr. 22, 1921. Serial No. 463,728. 5 Claims. (Cl. 246—410.)

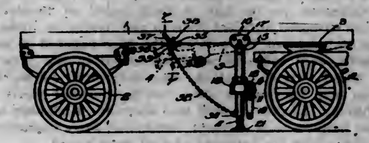
1. In a device of the character described, a supporting plate, an operating lever rockably mounted on said plate, a rod mounted in spaced relation to one face of the plate and extending at opposite sides of the pivot of the lever,

a member traveling on said rod, resilient connections between said member and the lever, a switch operating



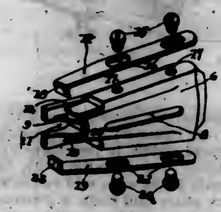
member, and operating connections between said member and the lever.

1,393,497. TRAILER-TRUCK. ADDI BENJAMIN CADMAN, Beloit, Wis., assignor to Warner Manufacturing Company, South Beloit, Wis., a Corporation of Wisconsin. Filed Jan. 28, 1918. Serial No. 214,092. 10 Claims. (Cl. 254—86.)



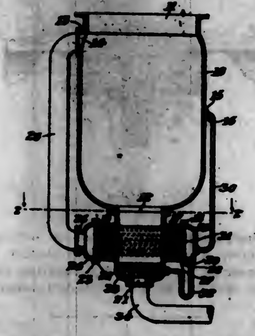
1. In combination with a trailer truck comprising a frame mounted upon a single pair of wheels, a standard at each side of the frame comprising an outer section connected with the frame, an inner section slidable within the outer section, a worm wheel threaded on the inner section and rotatably mounted within the outer section, an operating shaft having a worm on each end meshing with said worm wheels of said standards, a crank rotatable on the shaft, and pawl and ratchet mechanism arranged to lock the crank against movement relative to either or both of said worms.

1,393,498. BINDER FOR SEWING-MACHINES. JOHN E. CHALMAN, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 23, 1916. Serial No. 121,764. 2 Claims. (Cl. 112—138.)



1. A binder including in combination a body portion having a guiding slot for folding a binding strip, the delivery end of said binder having inclined edges disposed so as to invert said binding strip as it is led to the stitching mechanism and guiding fingers adjustable longitudinally of the binder, said guiding fingers having wide ends positioned so as to cross the inclined edges in all adjusted positions, whereby the binding strip will be engaged and the respective edges thereof guided at its inverting point.

1,393,499. CONDENSING APPARATUS. EVI W. CHESTERN, Gowanda, N. J., assignor to Wheeler Condenser and Engineering Company, Carteret, N. J., a Corporation of New Jersey. Filed June 19, 1920. Serial No. 390,078. 5 Claims. (Cl. 257—24.)



1. In a condenser apparatus and in combination, a condenser, a hot well associated therewith, a plurality of tubes extending through the body of the hot well, devices in the hot well discharge for maintaining the condensate in the hot well at such a level as to submerge the tubes, and means for directing steam into the tubes in the hot well.

1,393,500. INDICATING DEVICE. EDWARD B. CLARK, Golconda, Ill. Filed Feb. 25, 1919. Serial No. 279,158. 3 Claims. (Cl. 40—63.)

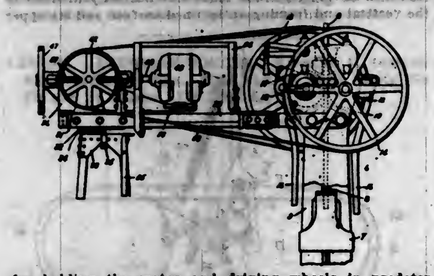


1. In an indicating device the combination of a curtain having display indications thereon, rollers upon which said curtain may be wound, gearing for alternately driving said rollers in a direction to wind the curtain thereon, means for shifting said gearing into engagement for driving either of said rollers, a yielding connection in the shifting means whereby a portion thereof may be fully operated to operate the balance when proper driving relations are established, means for driving the gearing and means controlled by the position of the curtain for stopping the driving means.

1,393,501. DROP-HAMMER. OTIS R. CLARK and CHARLES H. FRANKLIN, Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York. Filed Jan. 31, 1919. Serial No. 274,273. 16 Claims. (Cl. 78—29.)

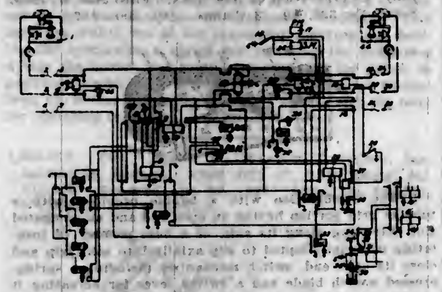
1. In an apparatus of the character described, the combination of a hammer, a stationary supporting and guiding frame therefor, a pair of actuators mounted on the frame and arranged to raise and release the hammer, mechanism for moving the actuators which includes driving or driven wheels and yielding means to absorb the shock between the driving wheels and the actuators, an

electric motor connected to the driving wheels, means having one end fastened to and supported by the frame



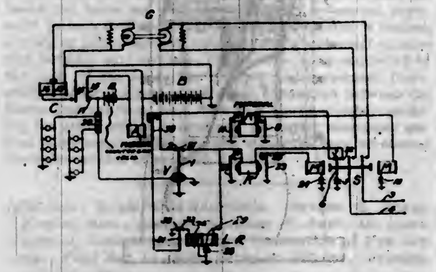
for holding the motor and driving wheels in predetermined position with respect to the driven wheels, and an auxiliary support for the other end of said means.

1,393,502. MACHINE-SWITCHING TELEPHONE SYSTEM. HENRY P. CLAUSEN, Mount Vernon, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 26, 1917. Serial No. 208,844. 12 Claims. (Cl. 179—18.)



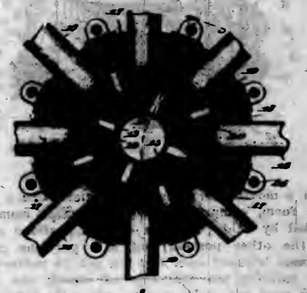
1. In a telephone system, telephone lines, a call bell associated with each of said lines, selective switches controlled by a calling subscriber for establishing connections between said lines, and means under control of either of two lines involved in a connection for operating the call bell of the other.

1,393,503. ELECTRICAL SYSTEM. HENRY P. CLAUSEN, Mount Vernon, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 19, 1918. Serial No. 250,509. 5 Claims. (Cl. 171—314.)



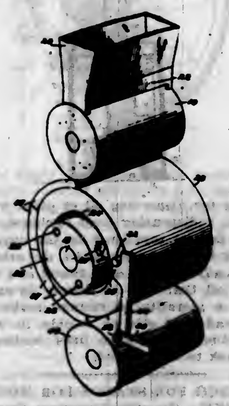
1. In a battery charging system, in combination, a battery to be charged, a source of energy for charging the battery, a switch for associating the source of energy with the battery, electromagnetic means in circuit with the battery and dependent solely upon the voltage thereof for controlling the operation of the switch, an electroresponsive device in circuit with the battery and dependent upon the rate of discharge thereof for controlling the switch and additional means for preventing the operation of said electroresponsive device in case the battery is at its predetermined maximum potential.

1,393,504. VEHICLE-WHEEL. DANIEL COLLINS, New York, N. Y. Filed Mar. 15, 1920. Serial No. 365,853. 5 Claims. (Cl. 152—48.)



3. A vehicle wheel including a felly, a hub, spokes extending inwardly from said felly, cushion means arranged between the hub and the extremities of said spokes, loose resilient members surrounding said cushion means and being disposed between said spokes, in contacting relation therewith, plates secured to said hub, members connecting said plates together and normally contacting said resilient members.

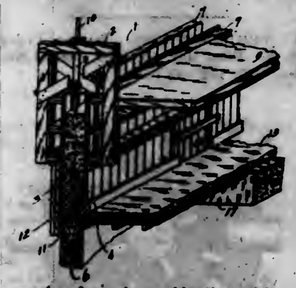
1,393,505. PASTE-APPLYING MACHINE. FREDERICK COATES, Wyoming, Ohio, assignor to Federal Products Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 25, 1920. Serial No. 412,884. 7 Claims. (Cl. 91—50.)



1. In a machine of the class described, a paste tank, a continuously revolving paste feeding roll coacting with the tank and receiving paste therefrom, an intermittently revolving paste distributing roll beneath the feeding roll and receiving paste therefrom, means to prevent and pos-

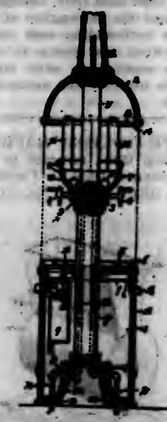
suit the revolution of the last mentioned roll, and a pinion roll meeting with the distributing roll and actuated by the revolution of said distributing roll.

1,393,506. MOVING FORM FOR CONCRETE CONSTRUCTION. HARRY L. COPELAND, Walla Walla, Wash. Filed Sept. 21, 1920. Serial No. 411,066. 7 Claims. (Cl. 25—131.)



1. In a moving form, in combination with a yoke and jack, a form, comprising two portions of equal length, connected by said yoke, one of said portions extendible below the other portion and said portions containing apertures.

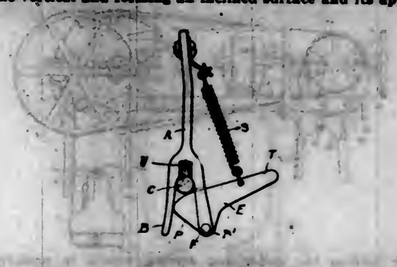
1,393,507. OIL SERVICE-FOUNTAIN. FRED CORNELL, Los Angeles, Calif. Filed Sept. 15, 1919. Serial No. 323,965. 8 Claims. (Cl. 221—80.)



1. Apparatus for dispensing oil or other fluids, having in combination, a dispensing head combined with an exhibition head, faucets supported by the dispensing head portion, exhibit bottles supported by the exhibition head portion, one in adjacency to each faucet and containing a sample of the oil that may be drawn through such adjacent faucet, a plurality of storage tanks for storing the various grades of oils or liquids to be dispensed through the faucets, and pipe lines leading one from each storage tank to each faucet.

1,393,508. CATCH FOR STANDS FOR MOTORCYCLES AND THE LIKE. CHARLES LEIGHTON CROFT, Balham, London, England, assignor of one-half to David Stott Cooper, London, England. Filed Jan. 26, 1920. Serial No. 354,132. 8 Claims. (Cl. 280—79.)

1. In a catch for motor cycle stands, the combination of a fork-shaped fitting to receive the end of the motor cycle stand, an arm pivotally mounted at its lower end in a centrally disposed slot in one leg of said fitting, said arm having its lower inner side normally inclined to the vertical and forming an inclined surface and its upper



inner side of cam shape, said arm projecting rearwardly from said slot and terminating in a trigger for the purpose of operating the arm and also for the attachment of one end of a spring for locking said arm in functioning position, for the purposes described.

1,393,509. ELECTRIC SWITCH. FRANK C. DE RAMEE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 6, 1919. Serial No. 336,090. 3 Claims. (Cl. 200—157.)



1. The combination with a handle provided with a tubular grip portion having an open end and an elongated slot extending along its side, of a base member of insulating material adapted to slip axially into said grip and close its open end, switch mechanism including a spring-pressed switch blade and a switch lever for actuating it carried by said base member, and an actuating lever pivoted in said elongated slot and having a part with which the switch lever engages when the base member is slipped into said tubular grip portion.

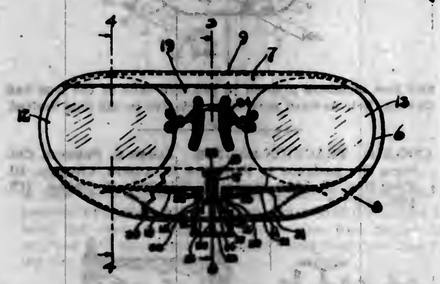
1,393,510. GUARD FOR PUNCH-PRESSES. MICHAEL J. DUBINSKY, Rockford, Ill. Filed Feb. 24, 1921. Serial No. 447,876. 4 Claims. (Cl. 74—105.)



1. In safety means of the character specified, a pivot member, a gear wheel loose on the pivot member, a sweep

in cooperative relation with the gear wheel, a rack bar in meshing relation with the gear wheel, and a guide mounted on the pivot member and engaging the rack bar to maintain the same in proper working position.

1,393,511. EYEGLASS-HOLDER. VINCENT E. DUNCANSON, Lynchburg, Ohio. Filed Nov. 15, 1919. Serial No. 338,278. 5 Claims. (Cl. 206—5.)



1. A holder for eyeglasses comprising a substantially flat body portion having the opposite longitudinal edges thereof turned inwardly and spaced apart, adapted to form spaces for the reception of eyeglasses, resiliently held members within one of the spaces for engaging and holding the eyeglasses, a clutch for retaining the eyeglasses within the holder, and means for retaining the clutch in position to release the glasses to permit removal thereof from the holder and means extending out through the body for operating the clutch.

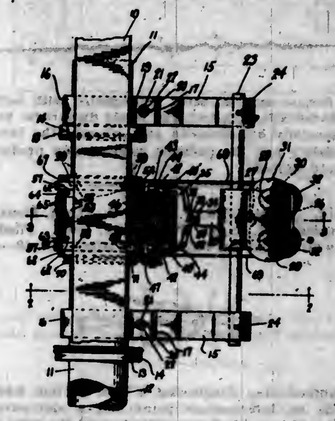
1,393,512. TOY. HIRAM F. DUNNING, Turtleford, Saskatchewan, Canada. Filed July 22, 1919, Serial No. 312,598. Renewed Apr. 22, 1921. Serial No. 463,573. 8 Claims. (Cl. 280—42.)



1. In combination, a wheeled frame, a hobby-horse mounted thereon for rocking movement, a connection between the horse and said frame whereby a forward movement is imparted to the latter, when the horse is rocked, a steering rod comprising two sections, a universal connection between said sections, one section being connected to the body of the horse for rotation and movement therewith, a squared sleeve, a universal connection between the sleeve and the front axle, and said sleeve slidably receiving the other section of said rod, the latter mentioned section being squared whereby the structure may be steered upon the turning of said rod.

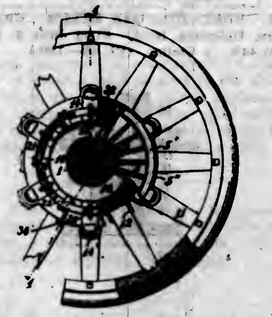
1,393,513. STAMPING-MACHINE. ERNEST H. DUVAL, Monroe, Mich., assignor to George W. Swift, Jr., Incorporated, Bordentown, N. J., a Corporation of New Jersey. Filed Mar. 13, 1920. Serial No. 365,564. 7 Claims. (Cl. 101—245.)

1. A revolving platen, a normally stationary printing roll therefor, means actuated by a sheet to be printed for bringing the printing roll to impression position when the sheet is arranged between the roll and platen, means for holding the printing roll against the influence of the sheet after an impression has been made thereon and after the



printing surface of the roll has been brought away from the sheet, and means for returning the printing roll to initial position after the printed sheet has been brought from between the roll and platen.

1,393,514. PNEUMATIC VEHICLE-WHEEL. ADOLPH W. ECKHARDT, New York, N. Y. Filed Feb. 27, 1920. Serial No. 361,779. 20 Claims. (Cl. 152—42.)



3. A vehicle wheel comprising a hub section, a rim section, a pneumatic cushion interposed between said sections and normally holding them in a concentric position, locking devices carried by one of said sections and movable relatively thereto lengthwise of the wheel axis, and adapted to be projected to a position in which they engage the outer edge of the other section, while normally said locking devices are in an inactive position, and means, operated by the shifting of the hub section to an eccentric position, for moving said devices from their normal retracted position to their projected locking position.

1,393,515. DIAPHRAGM AND METHOD OF MAKING SUCH DIAPHRAGMS. HENRY C. EGERTON, Passaic, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 4, 1918. Serial No. 210,200. 4 Claims. (Cl. 181—32.)

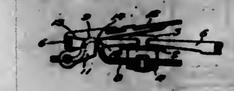
1. A diaphragm composed of a phenolic condensation product reinforced with three or more superposed layers of

woven fibrous material of two or more different areas, the two outer layers being of area substantially coextensive with the area of the diaphragm as a whole and inclosing one or more layers of smaller area, the interstices of said



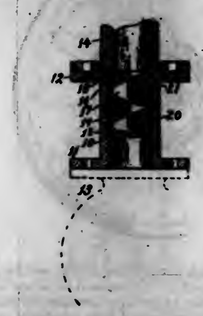
woven fibrous material being impregnated with said phenolic condensation product, the whole diaphragm forming a substantially homogeneous unit wherein the layers of woven fabric and the phenolic condensation product are intimately united.

1,393,516. ANIMAL-TRAP. JOHN R. ELDER, Sioux City, and GEORGE W. ELDER, Forest City, Iowa. Filed Aug 24, 1920. Serial No. 405,676. 1 Claim. (Cl. 43—93.)



An animal trap comprising a base portion having a hump at an intermediate point and a slot extending through said hump and outwardly beyond the same, a pan having an arm extending radially beyond the same and disposed and movable in the said slot and hinged to the base portion at a point outwardly beyond the hump and having above and inwardly from the hinge point a bifurcated portion, in combination with a swinging jaw arranged to be removably disposed in and held by said bifurcated portion, and spring means to close the said jaw.

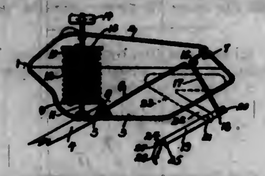
1,393,517. FUEL-OIL-GAS MIXER. CHARLES OSCAR ERICSON, Helmetta, N. J. Filed June 3, 1919. Serial No. 301,448. 1 Claim. (Cl. 48—180.)



A structure of the kind described comprising a pipe connection having its intake end reduced and with a recess therein forming a seat, a stationary perforate cylinder extending longitudinally of the pipe and having a flange fitting in the aforesaid recess whereby the cylinder body is spaced apart from the wall of the pipe connection, and a stationary imperforate helical blade extending longitudinally through the cylinder.

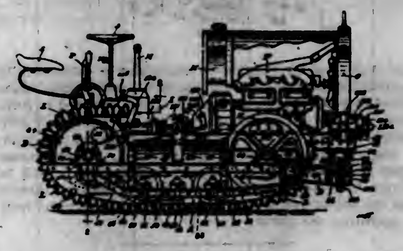
1,393,518. SWIMMING FROG. WILLIAM H. EISENWEIN, Bellevue, Pa. Filed June 8, 1920. Serial No. 387,440. 6 Claims. (Cl. 46—40.)

1. In a swimming toy, a body, a member of substantially inverted U-shape pivotally connected to the body for rocking movement on a horizontal axis, the arms of said member forming legs, means for rocking said U-shaped member



and foot members pivoted to the free ends of the legs and having their upward movement relative to the legs limited.

1,393,519. TRACTION-ENGINE. JAMES C. FRENCH, Chicago, Ill., assignor to Frederick C. Austin, Chicago, Ill. Filed Nov. 25, 1918. Serial No. 264,023. 15 Claims. (Cl. 180—9.2.)



1. In a traction engine, the combination, of a chassis, a motor mounted on said chassis at the forward end thereof, a gear casing at the rear end of said chassis, gearing in said gear casing, said gearing being operatively connected to said motor, there being depending from said gear casing a pair of bearings, a fixed axle mounted in said bearings and extending beyond the sides of said chassis, a pair of trucks pivotally mounted upon said fixed axle at their rear ends, traction means mounted in said trucks, said traction means being operatively connected to said gearing, said traction means including a pair of driving sprockets, each sprocket comprising a hub, a dished plate on said hub, a ring, said ring being removably bolted to the inner face of said dished plate at the peripheral margin thereof, secured to said dished plate, said ring having its inner periphery provided with gear teeth, the outer periphery of said ring being provided with sprocket teeth, a driving shaft operable by said gearing, said driving shaft having gear pinions engaging said internal gears, said driving sprockets having at their inner sides non-rotatable disks closing said sprocket wheels, each of said disks being constructed of two similar halves, bolted together at their transverse margins, said disks being fixedly connected to said fixed axle and having each an opening for the passage of said driving shaft, the connection of said disk to said axle including a two-part journal box in which the truck-frame is constructed to oscillate, the members of said journal box being formed each with one half of a cup-shaped element, said element having a laterally extending flange, and screws in said flange by which the cup-shaped element is removably secured to said two-part disk.

1,393,520. INCLOSED ARC DEVICE AND THE METHOD OF STARTING THE SAME. ERNST FRIEDRICH, Berlin, Germany, assignor to General Electric Company, a Corporation of New York. Filed Oct. 13, 1914. Serial No. 866,438. 21 Claims. (Cl. 176—1.)

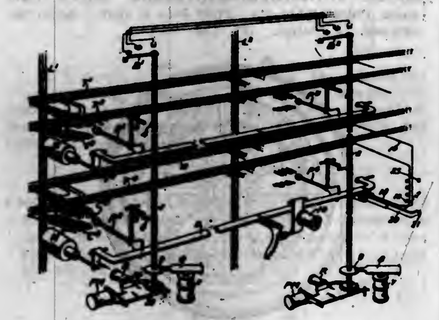
16. The combination of an electric device comprising a sealed container, electrodes therein arranged to enable a

plurality of electric discharges to be operated therebetween, the electrodes acting as the cathodes consisting of material adapted to support said discharges at incandescence while remaining substantially intact, a filling of material



in said container having at the operating temperature a gaseous pressure high enough to cause said discharges to have the characteristics of electric arcs and means for starting said discharges individually and thereupon operating the discharges in series.

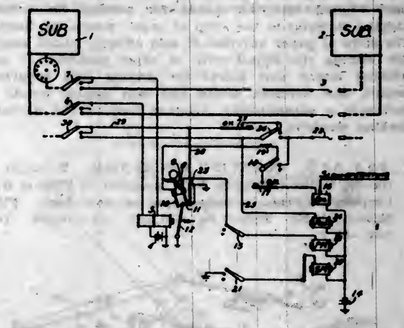
1,393,521. MACHINE-SWITCHING TELEPHONE SYSTEM. CHARLES L. GOODRUM, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 27, 1917. Serial No. 164,670. 5 Claims. (Cl. 179—18.)



1. In a telephone system, telephone lines, groups of extending circuits, selective switches for interconnecting said lines and said circuits comprising terminals in which said lines terminate, terminals arranged in operative relation to said line terminals in which said circuits terminate, a means for causing the operative interconnection of said line and said circuit terminals individual to each said group of extending circuits, means common to said groups for controlling said means and means for selectively operating said first means.

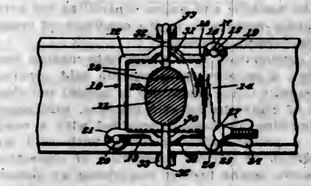
1,393,522. TELEPHONE-EXCHANGE SYSTEM. CHARLES L. GOODRUM, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 25, 1918. Serial No. 259,629. 9 Claims. (Cl. 179—18.)

2. In a telephone exchange system including incoming and outgoing lines, a selector switch for extending an incoming line toward an outgoing line, a line relay associated with said selector switch, primary and secondary means for controlling the operation of said switch, a single movable means arranged in operative relation to said line relay for controlling the operation of said



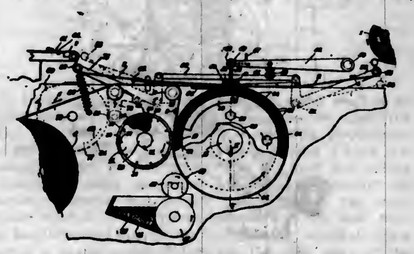
primary and secondary means, and means also controlled by said movable means for releasing said selector switch.

1,393,523. ANTISKID-CHAIN. FRANCIS C. GRAY, College Corner, Ohio. Filed Apr. 5, 1919. Serial No. 287,768. 3 Claims. (Cl. 152—14.)



1. A clamp comprising a substantially L-shaped member, a pair of pivoted arms secured to the opposite ends of said member, opposed filler blocks adjustably secured within the clamp and coöperating with said arms to receive the article to be clamped, and means for detachably connecting the arms and forcing said blocks together.

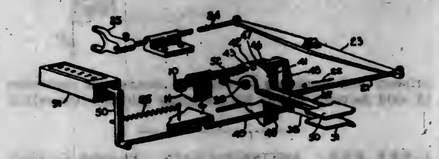
1,393,524. TIPPING MECHANISM. WILLIAM F. GRUPE, Hudson Heights, N. J., assignor to Endless Belt Corporation, Inc., a Corporation of New York. Filed July 12, 1919. Serial No. 310,361. 14 Claims. (Cl. 131—39.)



1. The combination of means for progressing a strip of paper, means for supplying tipping material, said two means operating at different speeds, means for applying under pressure the supplied tipping material to the paper strip and means for substantially equalising the speed of the portion of the paper strip to which the tipping material is being applied to the speed of supply of said tipping material.

14. The combination with a cigarette making machine, of means for supplying a strip of paper, means for supplying a length of tipping material, means for severing said tipping material, means for affixing the severed tipping material to the strip of paper, means for looping the strip of paper anterior of said affixing means, means for looping the tipped strip of paper posterior of said affixing means and means for driving said supplying means, said severing means and said looping means to maintain a substantially constant feed to the cigarette making machine.

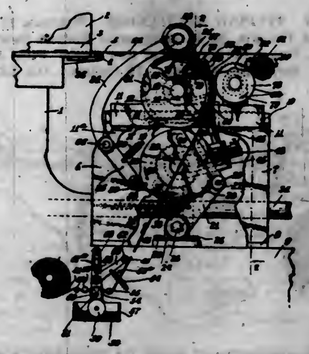
1,393,525. COUNTING MECHANISM. WILLIAM F. GAUPP, Hudson Heights, N. J., assignor to Endless Belt Corporation, Inc., a Corporation of New York. Filed Nov. 4, 1919. Serial No. 335,580. 13 Claims. (Cl. 131—39.)



1. The combination with a cigarette making machine of a counter for indicating the number of cigarettes produced by the machine and means controlling the actuation of said counter responsive to the condition of production of normally formed cigarettes.

13. The combination with a cigarette making machine, of a counter, a member for actuating said counter, and means responsive to the conditions of normal and abnormal production of cigarettes by said machine, said responsive means comprising an element provided with a recess arranged in a predetermined relation with said member under condition of normal production of cigarettes and said responsive means further comprising an element for moving said recess out of said predetermined relation under the condition of abnormal production of cigarettes.

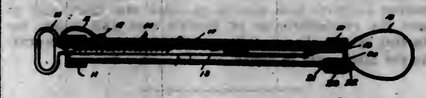
1,393,526. TIPPING MECHANISM FOR CIGARETTE-MACHINES. WILLIAM F. GAUPP, Hudson Heights, N. J., assignor to Endless Belt Corporation, Inc., a Corporation of New York. Filed July 16, 1920. Serial No. 396,710. 10 Claims. (Cl. 131—39.)



1. The combination of means for feeding tipping material in successive portions, means for rotating said feeding means, means for feeding a strip of paper, adhesive supplying means, means for affixing under pressure the tipping material successively to said strip of paper at determined spaces thereof, means for supporting said rotating tipping material feeding means and means for reciprocating said supporting means at a speed which with the speed of rotation of said feeding means imparts a speed to the foremost portion of tipping material substantially equal to the speed of said paper strip during the affixing stage.

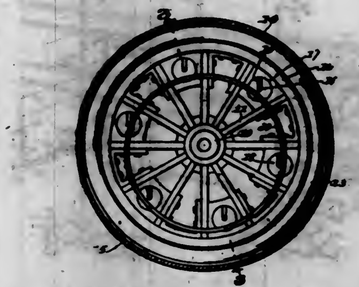
10. In combination with a cigarette rod-forming machine, of mechanism for applying tipping material to the paper, said tipping mechanism being disposed anterior of the rod-forming mechanism of the cigarette machine, said tipping mechanism comprising a rotary member for feeding spaced portions of tipping material toward and in register with the paper, means for moving said member to move its portion most closely adjacent the cigarette paper substantially parallel to the direction of travel of the cigarette paper and oscillatory means for applying pressure to the paper and the fed tipping material portions while rotating said rotary member.

1,393,527. DEVICE FOR HOLDING HOGS. GROVER GUTHRIE, Massena, Iowa. Filed Aug. 25, 1920. Serial No. 405,794. 2 Claims. (Cl. 119—153.)



1. A holder of the class described having a holder, a removable cap thereon, a noose slidable through said cap, a draw rod for the noose in said holder, and means anchoring the noose to both the cap and holder to prevent accidental detachment of the cap.

1,393,528. AUTO-WHEEL PROTECTOR. JOHN F. HALBACH, Philadelphia, Pa. Filed June 5, 1919. Serial No. 301,946. 9 Claims. (Cl. 152—85.)



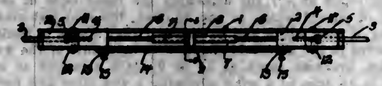
1. A wheel having a rim member and a shoe member capable of relative movement in a plane perpendicular to their axes, and orbitally movable interlocking means having complemental elements relatively movable in parallelism with and carried respectively by said members for communicating rotary motion from one to the other.

1,393,529. METHOD OF SAWING TAPER LOGS. ARTHUR L. HALEY, Seattle, Wash. Filed Mar. 31, 1921. Serial No. 457,409. 2 Claims. (Cl. 144—309.)



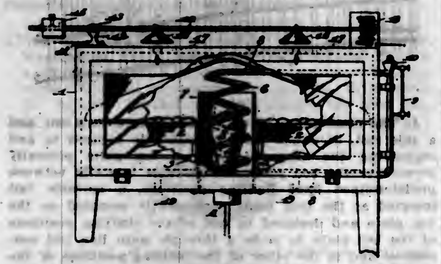
1. The method of sawing logs which consists in sawing two adjacent sides by first cutting parallel with the respective faces of the log and then squaring the log by sawing therefrom on lines which are parallel with the opposite sides of the log.

1,393,530. TROLLEY-WIRE EXTENSION-SPLICE. MIKE W. HRABAN, Bulger, Pa. Filed Mar. 18, 1921. Serial No. 453,507. 4 Claims. (Cl. 191—44.1.)



1. In a device of the character described, a casing, blocks mounted in said casing and adjustable toward and away from each other, means for simultaneously adjusting said blocks, and means for securing the blocks in adjustment and for forcing them into tight contact with the casing.

1,393,531. ELECTRIC INCUBATOR. JOHN A. HOWARD, Sr., West New Brighton, N. Y., assignor to Camward Engineering Co., Inc., a Corporation of New York. Filed July 3, 1920. Serial No. 393,845. 7 Claims. (Cl. 219—19.)



1. In a device of the class described, the combination of an electrically operated heating element, a water coil heated thereby, egg trays, and a chimney permitting air to pass into said device and into contact first with said water coil and then with said egg trays.

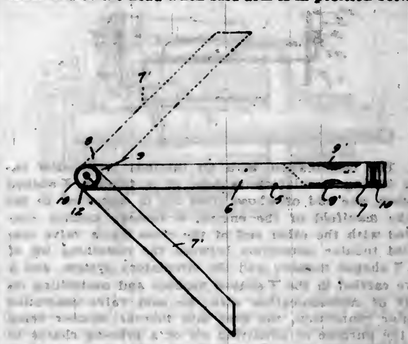
1,393,532. ELECTRIC FLOOR MOP OR BRUSH. JOHN A. HOWARD, Sr., West New Brighton, N. Y., assignor to Camward Engineering Co., Inc., a Corporation of New York. Filed July 3, 1920. Serial No. 393,846. 1 Claim. (Cl. 15—14.)



A mop comprising a base, a tufted member rotatably supported by said base, a motor operable for rotating said tufted member, and spring brackets for removably supporting said motor as and for the purpose set forth.

1,393,533. COMBINATION LEVEL AND BEVEL. WILLIAM C. HOYT, South Bend, Wash. Filed July 19, 1919. Serial No. 312,012. 2 Claims. (Cl. 33—116.)

1. A square of the character described comprising a pair of spaced side members connected at one end to form a head, the inner end wall of the head being cut on an angle between said side members, a pivot member mounted for rotation through the opposite ends of said side members, said pivot member having a squared central portion, an arm mounted on said squared central portion and having an angularly cut free end for engagement with the said inner end of the head when said arm is in position between



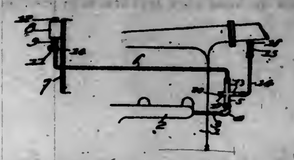
said side members, means for retaining said pivotal member in position in said side members, and means carried by said pivotal member and one of said side members to indicate the angular position of said arm.

1,393,534. CONSTRUCTION OF ADJUSTABLE SPANNERS, WRENCHES, CLAMPS, PIPE-CUTTERS, PIPE-GRIPS, AND THE LIKE. FRANK HUMPHRIS, Boscombe, England. Filed July 17, 1919. Serial No. 311,676. 2 Claims. (Cl. 81—169.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



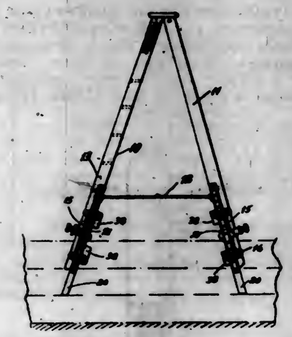
1. In a device of the class specified, a metal shell of U-shaped form with one extremity wider than the other, the wider extremity having lateral jaw-engaging projections, the shell forming inclosing means and having a fixed jaw secured between the said projections, the fixed jaw having a shank extending materially into the shell toward its narrow extremity and closely fitting against the front portion thereof, the narrower extremity of the shell having handle means secured to its extremity, a slidable jaw having a shank mounted between the rear edge of the shank of the fixed jaw and the rear wall of the shell, the shank of the slidable jaw also having an operating device extending therefrom, and means associated with the handle means for operating the said slidable jaw, the depending shank of the fixed jaw bracing the front portion of the shell and serving as a guiding bearing for contact therewith of the front edge of the shank of the slidable jaw.

1,393,535. FUEL-SAVER AND PRIMER. ALEXANDER GEO. HUNT, St. Louis, Mo. Filed Mar. 18, 1919. Serial No. 282,892. 2 Claims. (Cl. 123—25.)



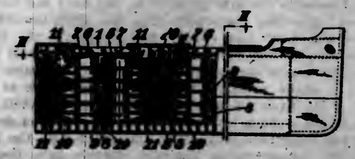
1. The combination with an internal combustion engine having circulatory system, of a tubular T-shaped member, one end of whose cross leg is connected to the intake manifold of the engine, a tubular member connected with the other end of the cross leg, a valve controlled tubular connection between the remaining leg of the T-shaped member and the circulatory system, and a valve carried in the T-shaped member and controlling its point of communication with the said valve controlled tubular connection, the first said tubular member being for the purpose of admitting air or a priming charge to the said T-shaped member for the useful purpose specified.

1,393,536. LADDER ATTACHMENT. HOMER HUNT, Hartford, Conn. Filed July 12, 1920. Serial No. 395,465. 8 Claims. (Cl. 228—60.)



1. A ladder attachment comprising a plate, means for securing said plate to a ladder leg, an extension leg, means for securing the extension leg to the plate, and lugs eccentrically pivoted upon the plate and bearing against the ladder leg to determine the angular relation of the ladder leg to the extension leg.

1,393,537. NAVIGABLE VESSEL. CHARLES PETER MITCHELL JACK, Glasgow, Scotland. Filed Feb. 16, 1921. Serial No. 445,497. 7 Claims. (Cl. 114—74.)



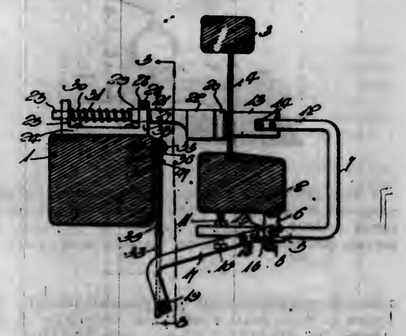
1. A tank ship having tanks comprising in combination bulkheads each end of which extends toward the side of the ship in a pair of curved wings diverging away from one another and thereby forming with the sides of the vessel a chamber, a vertical web-plate (such as 7) for joining each wing to the side of the vessel, another vertical web-plate (such as 7ª) for attaching the inner ends of each pair of curved wings to one another, the said web-plates being of such width and so disposed that access is readily afforded in the aforesaid chamber to the joints of the web-plates, brackets (such as 11 or 9) each attached at one end to an edge of a wing adjoining a web-plate and forming a virtual continuation of the wing to which it is attached, and stringers (such as 10 or 8) which tie the other end of each bracket to an opposed end of another bracket directed toward it.

1,393,538. SWITCH-RAIL. ERNEST N. JOHNSON, Winnipeg, Manitoba, Canada. Filed Dec. 19, 1919. Serial No. 345,890. 4 Claims. (Cl. 246—387.)



1. The combination with a main line, a turn out and a side rail, of a bed plate permanently secured to and supporting the aforesaid rails, a top plate pivotally secured to the bed plate and movable laterally between predetermined fixed limiting positions, a movable rail inserted at the frog point permanently mounted on the top plate and designed in one of the limiting positions of the bed plate to make a through main line rail connection and in the other of the limiting positions of the top plate to make a through connection between the turn out and side rails, a pair of locking bolts carried by the top plate and adapted alternately to lock the top plate against movement in its extreme positions of travel and reversible means for effecting in one controlling movement the initial unlocking of the locking bolt, the subsequent turning of the plate to its other limiting point of travel and the final locking of the plate by the other of the bolts against movement in such latter position.

1,393,539. THREAD-CUTTER FOR LOOMS. LOUIS JOURDAIN, Lowell, Mass. Filed June 21, 1920. Serial No. 390,452. 3 Claims. (Cl. 139—35.)



1. The combination with a loom structure including a breast beam, a lay beam and a reed, of a rocker shaft rotatably mounted beneath the lay beam, a U-shaped bracket having a lower arm provided with an opening receiving the rocker shaft, means to releasably lock the bracket upon the rocker shaft, an adjusting screw carried by the lower arm for engaging the lay beam and limiting swinging movement of the bracket in one direction, a cutting blade carried by the upper arm of the bracket and moving through the reed when the rocker shaft is rotated in one direction, means connected with the breast beam for holding a block in operative relation to the cutting blade, an abutment connected with the breast beam and movable into and out of an operative position, a lever arm mounted upon the rocker shaft, and an abutment carried by the lever arm for engaging the abutment of the breast beam and swinging the lever to rotate the rocker shaft and move the blade carried by said bracket through the reed into engagement with the block when the abutment of the breast beam is in an operative position.

1,393,540. DESICCATING FOOD. JOHN F. KELLY, Pittsfield, Mass. Filed Aug. 4, 1919. Serial No. 315,297. 2 Claims. (Cl. 99—5.)

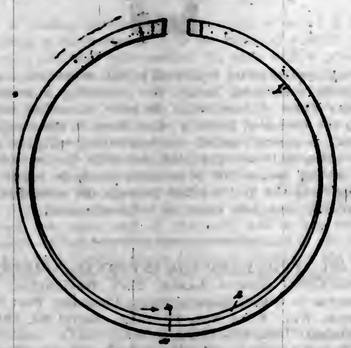
1. In the desiccation of raw succulent vegetable and fruit products the process which comprises applying a solution containing a reducing sugar to cut surfaces and thereafter desiccating in the usual way.

1,393,541. STRUCTURAL ELEMENTS. ROBERT KEMP, Washington, D. C., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Original application filed May 26, 1916, Serial No. 99,995. Divided and this application filed Jan. 25, 1919. Serial No. 273,075. 5 Claims. (Cl. 18—55.)



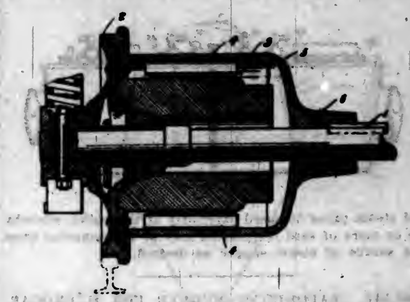
1. A method of making structural elements that comprises superimposing layers of fibrous material impregnated with a binder to form an elongate tubular body, disposing a mandrel of substantially stream-line shape in cross section upon the exterior of said layers, superimposing additional impregnated material about the tubular body and mandrel engaging it and subjecting the structure thus formed to heat and pressure in a mold.

1,393,542. PACKING-RING. HERMAN KIESTNER, Elizabeth, N. J., assignor, by mesne assignments, to Victory Hammered Piston Ring Company, Newark, N. J., a Corporation of New Jersey. Filed May 12, 1919. Serial No. 296,324. 1 Claim. (Cl. 74—109.)



A metal packing ring consisting of a split ring having the metal at its edges compacted to form an eccentrically arranged inner beveled edge, the bevel of which is greatest at the region opposite the split and decreases in both directions.

1,393,543. VEHICLE-DRIVE. WILLIAM C. KLEIN, Allentown, Pa. Filed Jan. 26, 1921. Serial No. 440,164. 1 Claim. (Cl. 105—53.)



A vehicle drive comprising a shaft, a wheel journaled thereon, a shell having a hub secured to said shaft at a distance from said wheel, said shell intermediate the hub and wheel being relatively large and open adjacent the wheel and terminating relatively close to the wheel, armature means and field means within said shell, one of said means being secured to the wheel and the other of said means being secured to said shell.

1,393,544. TOY. JAMES HARMER KNIGHT, Westtown, Pa. Filed Dec. 12, 1919. Serial No. 344,441. 4 Claims. (Cl. 105—38.)



4. A toy comprising units coupled in train, a motor mounted upon one of said units, a tank containing fluid motive medium, a pipe connecting said tank with the motor; and a coupling in the length of the pipe and located between the unit and comprising a plurality of sections, each containing a valve, a stop, yieldable means associated with said stop, and means for connecting and securing the members together when properly assembled.

1,393,545. CONCRETE PILE. EDWIN C. KNUTH, Milwaukee, Wis. Filed June 28, 1919. Serial No. 307,384. 4 Claims. (Cl. 61—59.)

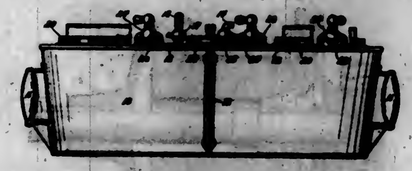


4. A reinforcing pile having a cross-section similar to the Greek cross, and a pair of reinforcing skeleton structures penetrating each other at the center of the pile and extending out into the wings of the pile, as and for the purpose specified.

1,393,546. STEAM-COOKER. USHIA KOLCHINSKY, Philadelphia, Pa. Filed Sept. 11, 1920. Serial No. 409,598. 4 Claims. (Cl. 53—2.)

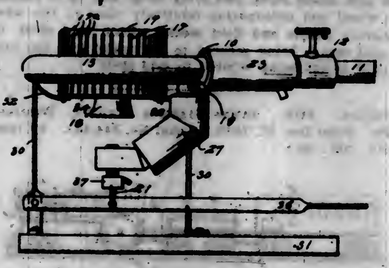
4. A steam cooker comprising a boiler constituting a source of steam supply, a top for said boiler, a plurality of food receptacles depending from said top within the boiler, a plurality of covers associated with the receptacles and said top, a plurality of steam pipes within the

boiler and projecting through said top for establishing interior communication between the feed receptacles and said source of steam supply, and controlling cocks for



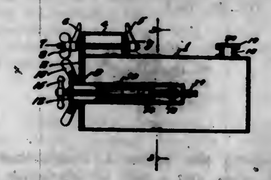
said steam pipes disposed exteriorly of the boiler whereby one or more of said receptacles may be disconnected from said source of steam supply as desired.

1,393,547. VAPORIZING-BURNER FOR HYDROCARBON FUELS. MERNARD H. KOERNER, Tulsa, Okla., assignor to Edward B. Kemp, Tulsa, Okla. Filed Oct. 6, 1920. Serial No. 414,966. 1 Claim. (Cl. 158—69.)



A liquid fuel burner construction including a frame having standards, brackets extending from the standards, an annular retort mounted by the standards, a burner construction surrounded by the retort and mounted by the brackets, a fuel supply conduit extending from the retort below the burner and having a discharge valve therein, and means mounted by one of the standards to control said valve.

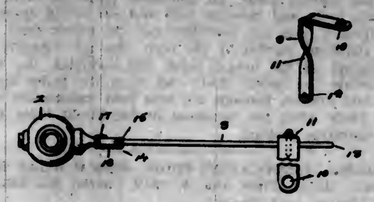
1,393,548. CHIMNEY-CLEANER. JOHN G. KOUDELKA, Antigo, Wis. Filed Oct. 22, 1920. Serial No. 418,807. 3 Claims. (Cl. 15—41.)



1. A device of the character described comprising a container and means for holding the same in a fire opening, means for creating a pressure within said container, and breakable means at one end of the container for releasing the same when a certain pressure is reached.

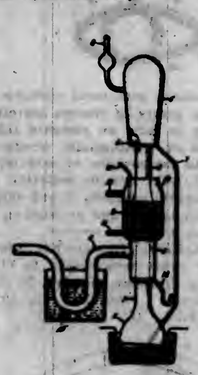
1,393,549. RADIATOR-DRAINING ATTACHMENT FOR AUTOMOBILES. GEORGE J. KRUEGER, Port Washington, Wis. Filed Mar. 29, 1921. Serial No. 456,849. 1 Claim. (Cl. 137—130.)

The herein described drain cock attachment for automobiles, comprising a rock shaft having at one end a coupling head provided with a flange to abut against the edge of a cock-plug handle and parallel spaced portions reaching forwardly from one edge of the flange and having free ends whereby the head is adapted to straddle the plug and said portions are adapted to be hooked around the handle of the plug and confine said handle against the



flange and couple the rock shaft to the plug, in combination with a right angle bracket with a pendent twisted arm in which the rock shaft is journaled, and a horizontal arm apertured for fixture on the pendent portion of a lamp standard.

1,393,550. METHOD OF AND MEANS FOR OBTAINING HIGH VACUA. IRVING LANGMUIR, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 3, 1916. Serial No. 76,054. 14 Claims. (Cl. 230—13.)

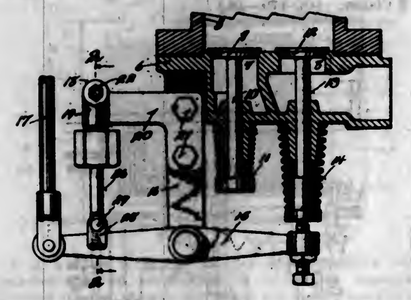


3. An apparatus for obtaining a high vacuum in a closed receptacle comprising means for producing a stream of mercury vapor, a condensing chamber, a conduit through which the stream of mercury vapor flows to the condensing chamber, a second conduit communicating with the receptacle which is to be exhausted and with the first conduit and cooling means for preventing mercury vapor from flowing from the first conduit through the second conduit toward the receptacle which is to be exhausted.

1,393,551. FUEL-PUMP FOR INTERNAL-COMBUSTION ENGINES. GEORGE LARGE, Port Washington, Wis., assignor to Gilson Manufacturing Company, Port Washington, Wis. Filed Nov. 17, 1919. Serial No. 338,541. 2 Claims. (Cl. 123—139.)

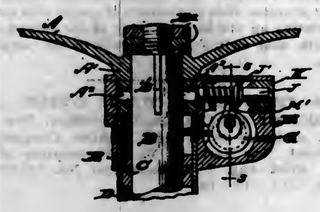
1. In an internal combustion engine, the combination with a cylinder head of a tappet valve including a stem projecting from the cylinder head, a pivot arm on the cylinder head, a tappet lever intermediately pivoted on said arm and having one end engageable with the valve stem, means pivoted to the opposite end of the lever for

actuating the same; fuel pump including a casing, an arm supporting the casing and secured to said pivot arm, and a



piston plunger extending into the pump casing and pivotally connecting it with the tappet lever between its fulcrum and the actuating means.

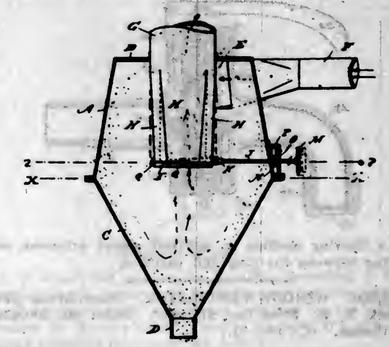
1,393,552. AUTOMOBILE-LOCK. FRANK B. LEONARD, Los Angeles, Calif., assignor of one-half to Alfred E. Beasley, Toronto, Ontario, Canada. Filed Sept. 17, 1920. Serial No. 410,822. 2 Claims. (Cl. 70—129.)



1. A locking device for the steering wheel of a vehicle including a casting secured to the steering column, a slidable bolt provided intermediate its ends with a projecting rib and housed in the said casting and adapted to enter a plurality of apertures in the hub of the steering wheel, said casting being provided at its outer side with a bore of sufficient size to permit the slidable bolt with the projecting rib to pass through it, a spring sleeved on the inner portion of the bolt and bearing against the rib and the inner wall of the casting to force the bolt out of locked relation with the steering wheel hub, a bushing filling the said bore and closed at its outer end and slidably supporting the outer end of the bolt, and a key actuated rotatable cylindrical lock mechanism housed in the casting and having a locking finger arranged to engage the rib for positively moving the bolt into its locked position.

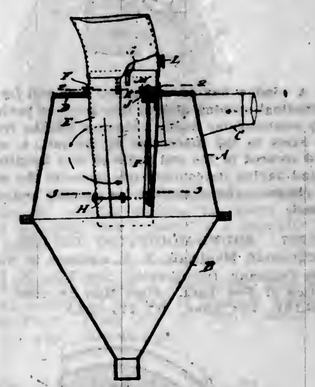
1,393,553. ADJUSTABLE DUST-COLLECTOR. MARTIN W. LEONHARDT, Chattanooga, Tenn. Filed Mar. 3, 1921. Serial No. 449,881. 5 Claims. (Cl. 183—86.)

1. A cyclone dust collector comprising a tangential inlet pipe, and a central tubular depending outlet pipe having its lower end divided upward from the bottom into a plurality of segmental tongues adapted to be variably compressed circumferentially and overlap each other so as to form a variable cone diminishing downward, and means



to effect said varied compression of said tongues and consequent varied area of said outlet pipe.

1,393,554. ADJUSTABLE DUST-COLLECTOR. MARTIN W. LEONHARDT, Chattanooga, Tenn. Filed June 13, 1921. Serial No. 477,270. 8 Claims. (Cl. 183—86.)

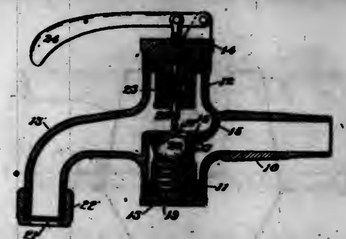


1. A cyclone dust collector comprising a tubular discharge pipe having a divided lower end forming over lapping tongues, adjusting means for said tongues adapted to vary the degree of overlap, and means located within said discharge pipe to operate said adjusting means.

1,393,555. FAUCET. ROBERT H. LOCKYER, San Francisco, Calif. Filed Sept. 16, 1920. Serial No. 410,657. 2 Claims. (Cl. 251—167.)

2. In a faucet, a pipe having opposite laterally projecting extensions, a partition within the pipe between said extensions, a cage screw threaded into one of said extensions, and comprising an apertured cylindrical wall, a seat on the inner end of the cage to fit against the partition within the pipe, a ball within the cage, cooperating with the seat, a spring within the cage to press the ball into engagement with the seat, a plug screw threaded into the other extension on the pipe, a stem extending through

the plug, and coöperating with the ball, means to actuate the stem whereby to depress the ball and unseat the same,



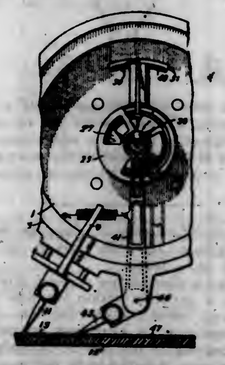
and a filtering medium in said last named extension extending between the plug and partition.

1,393,556. WINDOW-VENTILATOR. JOHN LYNN, New York, N. Y. Filed Dec. 31, 1917. Serial No. 209,634. 5 Claims. (Cl. 98—31.)



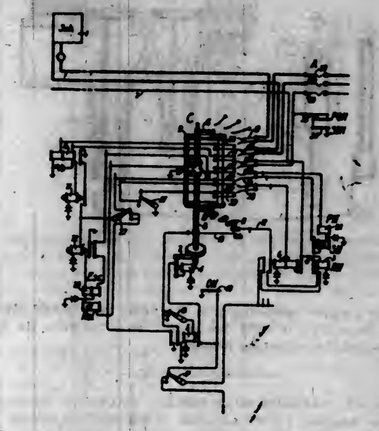
3. A window having the bottom sash rail formed with a longitudinal opening divided into sections having substantially semi-circular bases, a channel leading from between said bases to the inner side of the rail, a semi-circular shield secured in the end walls of said longitudinal opening and having its concave side opposite the opening into said channel, and a shutter for opening and closing said channel.

1,393,557. SOUND-MODIFYING DEVICE. JAMES L. MCQUARRIE, Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 18, 1918. Serial No. 223,181. 10 Claims. (Cl. 274—27.)



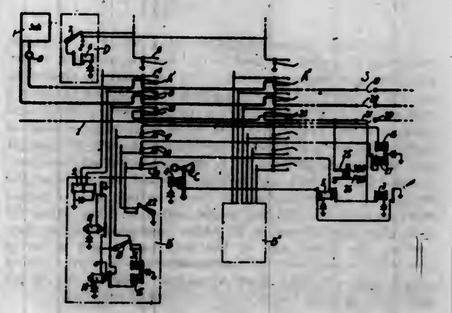
1. In combination, a sound conveyer, a record, a sound box intermediate the conveyer and record, a sound modifier within the sound box, an automatic means controlled by said record for adjusting the modifier.

1,393,558. TELEPHONE-EXCHANGE SYSTEM. JAMES L. MCQUARRIE, Montclair, N. J., and CHARLES L. GOODRUM, New York, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 7, 1919. Serial No. 315,827. 6 Claims. (Cl. 179—18.)



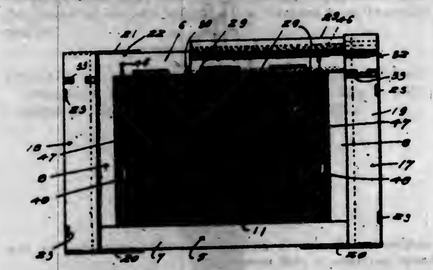
1. In a telephone system, groups of selector switches, groups of connector switches, impulse relays for each group less in number than the switches thereof and common to such switches, and electromagnetic means automatically actuated upon the seizure of one of said switches for associating an idle impulse relay of the corresponding group with said switch to coöperate in the setting of the same.

1,393,559. TELEPHONE-EXCHANGE SYSTEM. JAMES L. MCQUARRIE and CHARLES L. GOODRUM, New York, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 7, 1919. Serial No. 315,828. 6 Claims. (Cl. 179—18.)



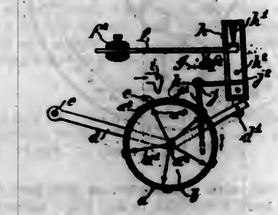
1. In a telephone exchange system, a calling line, a plurality of selector switches to which said line may be extended, sets of contacts for each switch, means for pre-alloting one set of contacts to its associated switch, and electromagnetic controlling apparatus common to a plurality of sets of contacts including the pre-allotted set for controlling the operation of the switch with which said pre-allotted set is associated.

1,393,560. WINDOW-SCREEN. BURTON J. MARRIOTT, Petrolia, Ontario, Canada. Filed May 26, 1920. Serial No. 384,367. 12 Claims. (Cl. 156—14.)



2. A window screen comprising a substantially rectangular metallic frame having reticulated material mounted therein, the side and upper portions of the frame having rearwardly extending flanges formed thereon, and a hood formed of a plurality of slidable leaves pivotally secured to the side flanges and arranged to partially cover the screen, when the same is in its lowered position and to engage the top flange when the same is in its collapsed position, and means for raising and lowering said hood.

1,393,561. APPARATUS FOR DELIVERING MATERIALS. FERNAND PAUL MARTIN, Paris, France. Filed Mar. 28, 1919. Serial No. 285,836. 3 Claims. (Cl. 249—19.)



1. In an apparatus for delivering material in measured quantities, a lever adapted to oscillate about a fixed pivot, a measuring drum pivoted to said lever and comprising a plurality of compartments for the material to be measured, means for supplying the material to said compartments, lugs formed on the periphery of said drum, a fixed pawl adapted to engage said lugs, a lever pivoted above said drum having a weight slidably mounted thereon, a link connecting said levers, said drum being adapted to move out of contact with said pawl as the material in one of said compartments overbalances said weight, and means for initiating the return of said lever and drum to rest position after the contents of one of said compartments has been discharged.

1,393,562. SAND-BLAST NOZZLE. JOSEPH L. MATTHEWS, Highland Park, N. J., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 8, 1920. Serial No. 415,495. 2 Claims. (Cl. 51—11.)



1. In a sand blast nozzle, a lining of ceramic material.

1,393,563. SPARE-TIRE HOLDER. ANTON MAURER and JAMES J. BROSSOIT, Salt Lake City, Utah. Filed Feb. 25, 1919. Serial No. 279,154. 9 Claims. (Cl. 224—39.)



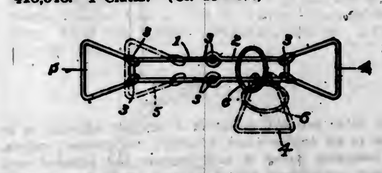
1. A spare tire carrier for vehicles, including a tire carrying frame mounted to be bodily rotated, tire engaging elements thereon, and means actuated by the bodily rotation of the tire carrying frame to move the tire engaging elements into operative position.

1,393,564. METHOD OF MAKING CURRENT-COLLECTOR RINGS. CHESTER B. MILLS, East McKeesport, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 10, 1918. Serial No. 249,846. 3 Claims. (Cl. 29—155.5.)



1. The method of making a collector ring comprising casting a metallic cylinder, working the metal of said cylinder and attaching said cylinder to a centrally disposed body portion.

1,393,565. PUZZLE. GEORGE A. PARMENTER, West Medford, Mass., assignor of one-half to Henry B. Leighton, Cambridge, Mass. Filed Oct. 21, 1920. Serial No. 418,348. 1 Claim. (Cl. 46—41.)

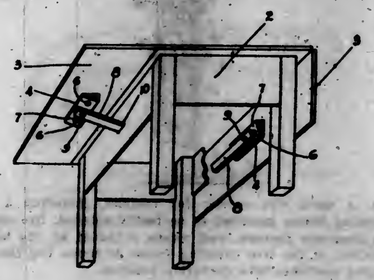


A puzzle comprising four links of equal ultimate length, the two central links having straight elongated side portions, a short end portion, the ends of the side portions of each link being joined to each other to form straight lines from end portion to end portion, and a ring surrounding one of said links.

1,393,566. TABLE-LEAF SUPPORT. JOHN PETERSON, Faribault, Minn. Filed Nov. 22, 1920. Serial No. 425,737. 1 Claim. (Cl. 45—47.)

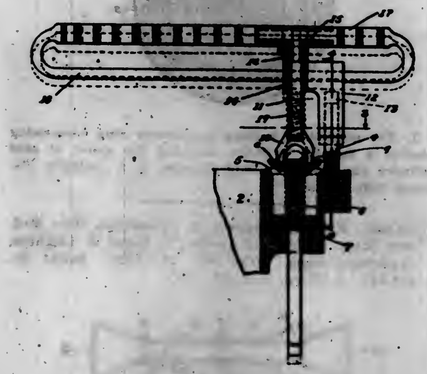
A table having side frame members and side leaves hinged to the table for folding down over the side frame members, an elongated bearing block secured to the under side of each leaf and having its under face beveled out-

wardly toward the outer edge of the leaf, and a brace pivoted at one end to the beveled face of the bearing block for swinging downwardly in the plane of the beveled face to engage the adjacent side member and thereby hold the respective leaf in its operative position, said brace adapted to be housed between the folded leaf and its



opposed side member and held against swinging beyond the lower edge of the leaf by the beveled face of the block the angle of which being such as to effect engagement of the brace with the outer edge portion of the leaf upon swinging movement of the same beyond its normal folded position.

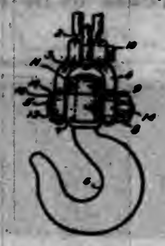
1,393,567. VALVE-GRINDER. NIELS JULIUS PETERSON, Minneapolis, Minn. Filed Jan. 30, 1920. Serial No. 355,255. 4 Claims. (Cl. 51—29.)



1. A valve grinder including a support adapted to be secured to an engine block adjacent two opposed valves, studs rotatably borne in said support and adapted each to engage one of said valves, a gear affixed to each stud in adjacent spaced relation, and a rack bar presenting teeth on opposed sides adapted to be inserted between said spaced gears whereby, upon reciprocation of the bar, the gears are simultaneously rotated and the valves thereby ground to their respective seats.

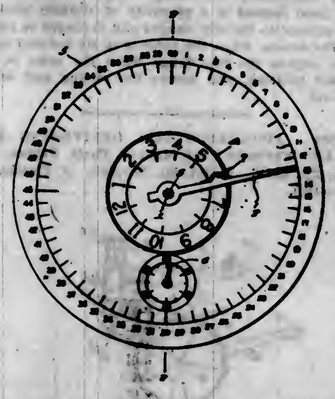
1,393,568. CHAIN-SHACKLE. ARTHUR S. REMBERG, Lakewood, Ohio, assignor to The Chisholm-Moore Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 12, 1920. Serial No. 416,462. 9 Claims. (Cl. 59—93.)

1. In a hook coupling, the combination of two intergaging members, one of them having an integral extension passed into an opening in the other, said extension being adapted to be embraced by a chain link intermediate the



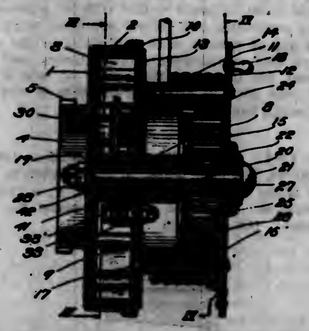
members, and a hook swivel removably supported by the lower portions of said members.

1,393,569. DIAL. ALBERT J. RICHARDSON, Joplin, Mo. Filed Feb. 14, 1921. Serial No. 444,961. 2 Claims. (Cl. 58—126.)



2. In combination with a time-piece, a dial part connected with the hour arbor and having hour indicating numerals thereon, a minte hand having a projection thereon coöperating with the numeral for indicating the hour and a dial coöperating with the minute hand and divided into sixty minutes.

1,393,570. TROLLEY-CATCHER. JAMES R. RICKETTS, Kansas City, Mo. Filed Apr. 30, 1919. Serial No. 293,750. 12 Claims. (Cl. 191—95.)



1. In a trolley catcher, the combination with a drum and a trolley rope secured thereto, of a freely movable

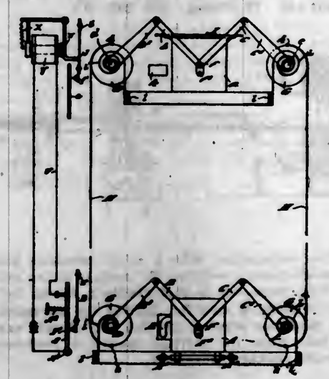
pawl on the drum, a detent normally holding the pawl against movement, and a rigid member to be engaged by the pawl, said pawl moving into locked engagement with the detent by its own weight when released from the rigid member.

1,393,571. COMBINED FLY-SWATTER AND BRUSH. CONSTANCE A. RISK, Hermann, Mo. Filed May 2, 1921. Serial No. 466,065. 3 Claims. (Cl. 43—137.)



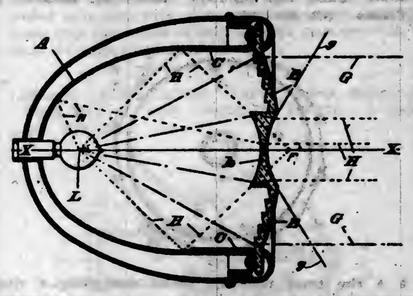
1. A fly-swatter having a swatting-body made of broom-corn straws bound together intermediate of their ends, to form a handle thereat; and a corner-brush formed at the end of said handle that is opposite the end to which said swatting-body is connected.

1,393,572. PANTOGRAPH APPARATUS. FOSTER RITCHIE, Ealing, England. Filed Jan. 24, 1916. Serial No. 74,044. 1 Claim. (Cl. 33—23.)



A photograph comprising entirely separate and distinct tracing and reproducing ends; said pantograph having at each of said ends two pairs of articulated links, a pair of axially fixed spindles to which corresponding links of the two pairs are connected, and a pen or tracer connected to the junction of the other links of the two pairs; pulleys upon said spindles, flexible driving means connecting the corresponding pulleys at the two ends, and volute springs acting on the corresponding spindles at the two ends for maintaining tension on said flexible driving means.

1,393,573. HEADLAMP. JOHN A. EITTER, Lansdowne, Pa. Filed Oct. 21, 1920. Serial No. 418,896. 4 Claims. (Cl. 240—41.)



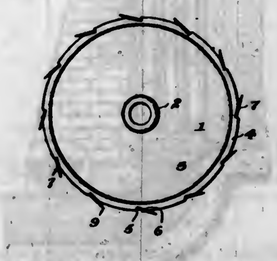
1. In a headlight, the combination of an elliptical reflector, a source of light located substantially at the inner focus of the reflector, a lens covering the mouth of the reflector and located near the outer focus of the reflector, said lens having a central concave portion which receives all the reflected rays and issues them in a parallel beam of light and a plurality of arcuate concentric prisms which receive the greater portion of direct rays and transmit them in a parallel cylindrical beam of light.

1,393,574. SPOON-HOLDER. ALDACE P. ROHMILLER, Mapleton, Iowa. Filed Feb. 24, 1920. Serial No. 360,687. 1 Claim. (Cl. 65—65.)



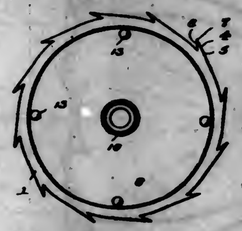
In a device of the class described, a receptacle the side wall of which is outwardly turned to form an external flange along one edge, a portion of the edge of the said wall being inwardly deflected to form an inwardly turned flange, said flange being cutaway and the cutaway portion having under cut walls, for forming an engaging device for a spoon or the like.

1,393,575. TIRE-TREAD-REMOVING DEVICE. JOHN M. ROLL, Correctionville, Iowa, assignor of one-half to Carl Jacobs and one-fourth to E. E. Jacobs, Correctionville, Iowa. Filed July 2, 1920. Serial No. 393,717. 1 Claim. (Cl. 29—105.)



A tire tread removing device comprising a wheel having a relatively broad rim provided at spaced points with recesses, and a blade detachably mounted in each recess, and having a beveled edge spaced a pre-determined distance from the rim, said edge being of an arcuate shape to conform to the periphery of a tire.

1,393,576. TIRE-TREAD-REMOVING DEVICE. JOHN M. ROLL, Correctionville, Iowa, assignor of one-half to Carl Jacobs and one-fourth to E. E. Jacobs, Correctionville, Iowa. Filed Aug. 14, 1920. Serial No. 403,587. 4 Claims. (Cl. 29—103.)



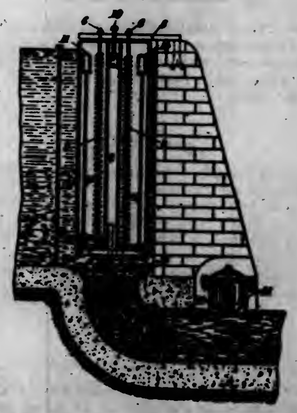
4. A tire tread removing device comprising a ring formed with a plurality of blades and having inwardly projecting lugs, and upper disks bolted to the lugs, and each having a hub section.

1,393,577. NAPKIN-CLASP. SAMUEL M. BYASON, Oquawka, Ill. Filed May 18, 1921. Serial No. 470,560. 2 Claims. (Cl. 24—253.)



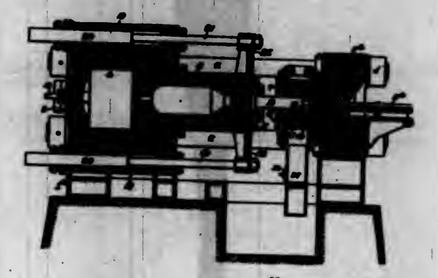
1. A clasp comprising pivotally connected members each having a flat gripping jaw provided with an angularly deflected lip, and means yieldably holding the members swung upon their pivot with the said jaws and lips of the members in mutual contact.

1,393,578. TUBULAR FLOOD OR SLUICE GATE. PIERRE SAMAIN, Cusy, France. Filed Aug. 26, 1919. Serial No. 320,053. 4 Claims. (Cl. 61—22.)



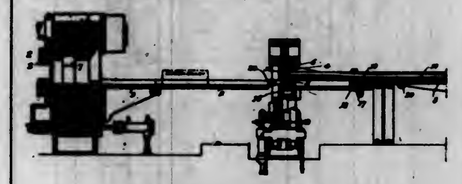
1. A flood or sluice gate comprising in combination a tubular body closed at the bottom forming a float, communicating means between the reservoir and said float, communicating means between said float and the down stream, valves controlling the flow of water in and out of said float whereby the position of said float is regulated and a tube extending from bottom to top of said tubular body to connect the underside of the float with the atmosphere.

1,393,579. METAL-EXTRUSION PRESS. FREDERICK GEORGE SCHRANS, Philadelphia, Pa. Filed Aug. 4, 1920. Serial No. 401,115. 29 Claims. (Cl. 207—9.)



1. The combination, in a metal extruding press, of a cylinder, a piston therein, a cross-head carried by said piston, auxiliary pistons connected to said cross-head, cylinders for the same, means for directing pressure to the several cylinders; the pressure in said auxiliary cylinders being constant, and means for exhausting pressure from the main cylinder whereby the constant pressure of the auxiliary cylinders may actuate the auxiliary pistons to retract the cross-head and the main piston.

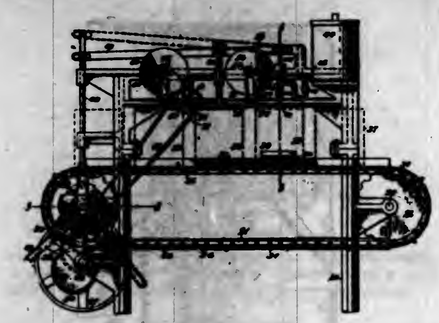
1,393,580. BILLET AND ROD HANDLING MEANS FOR METAL-EXTRUSION PRESSES. FREDERICK GEORGE SCHRANS, Philadelphia, Pa. Filed Aug. 4, 1920. Serial No. 401,116. 18 Claims. (Cl. 207—9.)



13. The combination, with a metal extrusion press, of a die and die-block, a reciprocable carriage for an extruded rod or tube connected to said die-block, means for moving said carriage, a stop for limiting its movement, and a shear blade for serving the stub end of said extruded rod or tube when the carriage reaches a predetermined point in its outward movement.

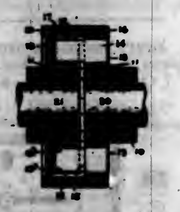
1,393,581. LABELING-MACHINE. OGDEN S. SELLS, Buffalo, N. Y. Filed June 28, 1920. Serial No. 392,205. 1 Claim. (Cl. 216—9.)

A labeling machine comprising a conveyer adapted to transport the articles to be labeled, means for depositing a quantity of adhesive on that part of each article intended to receive the label including a delivery nozzle arranged above the path of the articles, an adhesive reservoir, a pump cylinder having its inlet connected with said reservoir and its outlet connected with said nozzle, a



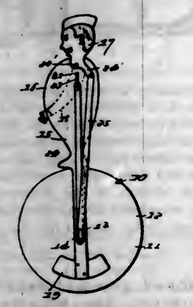
plunger movable in said cylinder, and a rock lever for operating said plunger, and means for delivering labels to the adhesive coated surface of said articles.

1,393,582. SHAFT-COUPLING AND METHOD OF MAKING SAME. CHRISTIAN STENSTRUP, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 1, 1919. Serial No. 335,036. 5 Claims. (Cl. 29—148.)



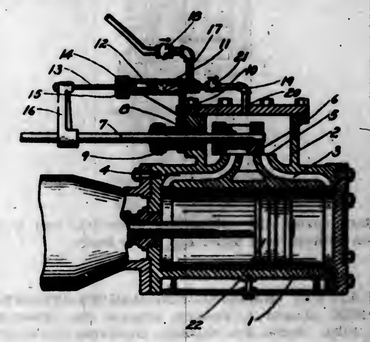
1. The method of making a coupling which comprises fastening two flanges in engagement with each other, cutting slots in their edges and fastening driving keys in the slots of one flange which keys project into the slots of the other flange.

1,393,583. TOY. ENOCH B. STEVERSON, Portsmouth, Va. Filed Jan. 29, 1920. Serial No. 355,006. 1 Claim. (Cl. 46—45.)



A toy having a rolling base comprising sections separated at their adjacent ends to form an intervening space and connected by a spindle having a crank arranged in said space, a figure having standards extending into said space and pivotally mounted upon the said spindle, said standards being provided with a counter-balancing weight and said figure being provided with pivotal members, cranks connected with said movable members, and links connecting the cranks of said movable members with the crank of said spindle.

1,393,584. LUBRICATOR. FRANK STONE, Slater, Mo. Filed Mar. 22, 1920. Serial No. 367,670. 2 Claims. (Cl. 184—27.)



1. In combination with the valve chest of a reciprocatory engine and a hydrostatic lubrication system, of a pump, the inlet of which is connected to the hydrostatic lubrication system and the outlet to the valve chest of the engine, and means movable in response to movement of the valve in the valve chest for operating said pump to alternately draw in lubricant from the hydrostatic lubrication system and expel it into the valve chest.

1,393,585. FUSE FOR PROJECTILES. FRANCIS ARTHUR SUTTON, Oakhurst, Ashford, England, assignor to Clarence C. Williams, Acting Chief of Ordnance, U. S. Army, trustee. Filed Oct. 18, 1917. Serial No. 197,250. 8 Claims. (Cl. 102—39.)

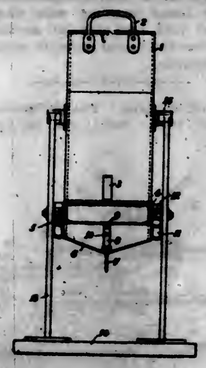


2. A fuse for projectiles, comprising in combination a detonating mechanism; locking means for holding said mechanism in safe condition; means for ejecting said locking means through an opening in the fuse as the projectile leaves the gun; and means for closing said opening.

1,393,586. NAIL-CONTAINER AND NAIL-DELIVERING DEVICE. ARTHUR REGINALD WEDGWOOD TANNER, Little Sutton, England. Filed June 10, 1920. Serial No. 387,947. 1 Claim. (Cl. 1—6.)

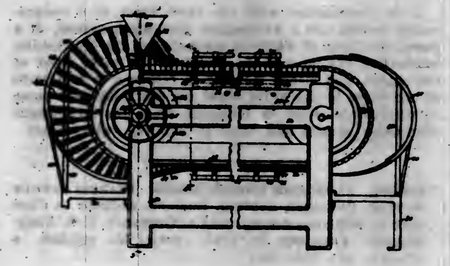
A nail holder comprising a standard, an upper container pivoted thereon, a lower slotted box connected with the

upper box, a spring at the end of said slot, means to allow the lower box to slide freely with respect to said



standard during the nail-sorting operation, and a connection between said upper and lower boxes.

1,393,587. MACHINE FOR MAKING ICE-CREAM CONES. JAMES T. TURNER, Atlanta, Ga. Filed Feb. 28, 1920. Serial No. 362,069. 25 Claims. (Cl. 107—58.)

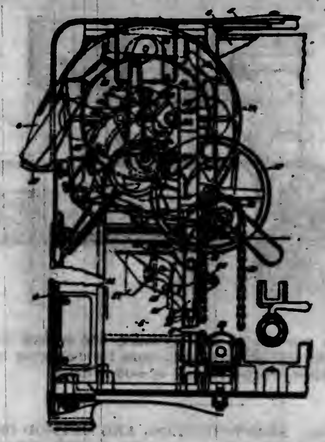


1. In a device of the character described, a conveyer and means for moving the same, said conveyer being composed of links pivoted together, said links having open-sided recesses in their sides, means for closing and opening such recesses and male members coacting with the recesses when closed.

18. In a device of the character described, a series of split female mold members, a pair of parallel continuous tracks, one being adapted for each end of said members, male dies pivoted to said female mold members, means for separating said female mold members, a roller at the free end of each male die and a third track adapted to receive said rollers and periodically guide said male dies toward and away from said female mold members to permit charging the molds with dough and extracting the baked product therefrom.

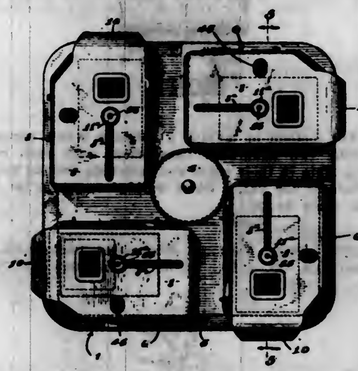
1,393,588. DISPENSING-MACHINE. WILLIAM R. TUTTLE, Rochester, N. Y. Filed Feb. 27, 1917. Serial No. 151,196. 4 Claims. (Cl. 211—8.)

1. In a dispensing machine, the combination of a container having a discharge opening in the upright sides thereof, a plurality of holders in the container for the packages to be dispensed, a receptacle for a preserving medium, the holders being arranged in upright position around the receptacle, means associated with each holder for feeding the articles upwardly toward the upper end of the holder, and a delivery member at the upper end of each holder and beneath the top of the container,



the container being formed with a sight opening in the top thereof through which the contents about to be delivered by said members, are visible, substantially as and for the purpose described.

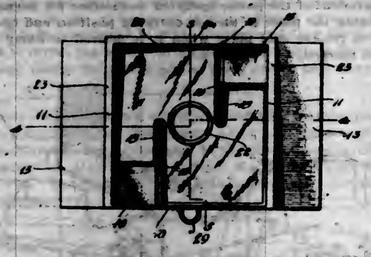
1,393,589. DISPENSING-MACHINE. WILLIAM R. TUTTLE, Rochester, N. Y. Filed Aug. 17, 1917. Serial No. 186,700. 7 Claims. (Cl. 211—8.)



1. In a dispensing machine, a magazine for the articles to be dispensed, a dispensing member reciprocally movable and having a rack associated therewith, means for feeding the articles from the dispensing member comprising a gear connected to said mechanism and meshing with the rack and a one way clutch mechanism operating to transfer the motion of the dispensing member to the pinion during movement of the dispensing member in one direction, substantially as and for the purpose specified.

1,393,590. MOUSE AND RAT POISONER. WILLIE T. VADEN, Jr., Dayton, Tex. Filed Apr. 2, 1920. Serial No. 370,676. 3 Claims. (Cl. 43—131.)

1. A device of the character described comprising a rectangular casing provided with entrance openings, a cover normally closing said casing, a door pivoted adjacent each entrance opening and adapted to swing in a



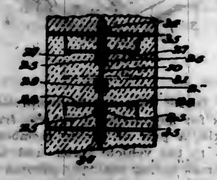
vertical plane for closing the opening when the casing is excessively tilted in a certain direction, and a tray within said casing adapted to contain bait and poison.

1,393,591. CONTAINER. ROBERT WALTER, St. Louis, Mo. Filed Feb. 28, 1921. Serial No. 448,319. 7 Claims. (Cl. 217—51.)



1. A container having a wall construction comprising a plurality of spaced staves and a band directly secured to each of said staves and extending across the staves upon the interior of the container, said band having a plurality of free intermediate U-shaped spring loop portions extending outwardly between adjacent staves.

1,393,592. CONCRETE STRUCTURE HAVING WATER-PROOFING REINFORCEMENT. JEROME W. WELCH, Sergeant Bluff, Iowa. Filed Feb. 18, 1919. Serial No. 277,791. 9 Claims. (72—50.)



1. In concrete construction, a cementitious body, a plate of sheet metal embedded therein between and parallel with the side faces thereof and substantially co-extensive therewith, a plurality of anchoring members extending from each face of the plate adjacent the side and end edges thereof, and other anchoring members extending laterally from each face of the plate intermediate the edges thereof.

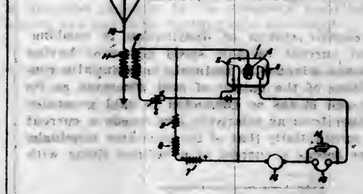
1,393,593. INTERNAL-COMBUSTION ENGINE. PORTIUS R. WHEELER, Peoria, Ill. Filed Sept. 25, 1918. Serial No. 256,544. 3 Claims. (Cl. 123—66.)

1. In an internal combustion engine the combination of a cylinder structure, a cylindrical piston mounted therein and connected to operate a crank shaft, a stationary piston head mounted in said cylindrical piston, a tubular support for said stationary piston head, a carrying member for said support and attached to said cylinder structure, a tube passing through said tubular support for introducing a cooling medium to said stationary piston head, a head carried by said cylindrical piston and coöperating with said stationary piston head to form a



charging cylinder, an inlet and transfer port communicating with said charging cylinder and a valve controlled inlet passage for the admission of the fuel, an exhaust port opening from the combustion chamber and adapted to register with an exhaust passage of said cylinder structure.

1,393,594. MEANS FOR PRODUCING HIGH-FREQUENCY OSCILLATIONS. WILLIAM C. WHITE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 3, 1918. Serial No. 237,845. 8 Claims. (Cl. 250—8.)

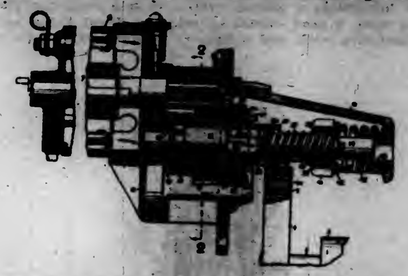


6. The method of operating an electron discharge device having an electron emitting cathode, an anode and discharge controlling grid inclosed in an evacuated receptacle and having a plate circuit and a resonant grid circuit associated therewith which consists in generating high frequency oscillations in said grid circuit independently of any transfer of energy to said grid circuit from other circuits.

1,393,595. ENGINE-STARTING APPARATUS. LIONEL M. WOLFFSOHN, (now by judicial change of name Lionel M. Woolson,) Hoboken, N. J., assignor, by mesne assignments, to Bijur Motor Appliance Company, a Corporation of Delaware. Filed Aug. 2, 1916. Serial No. 112,662. 25 Claims. (Cl. 74—7.)

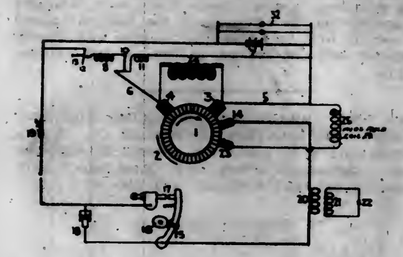
1. In apparatus of the class described, in combination, an engine, a motor, an engine-driven gear, a friction clutch, a pinion driven from said motor through said friction clutch and axially movable into mesh with said

gear, an axially movable member upon which said pinion is mounted, means adapted to exert a cushioning effect



to cushion and limit the axial movement of the pinion into engagement with the gear, and means for tightening the clutch when engagement has been effected.

1,393,596. ELECTRIC SYSTEM FOR MOTOR-VEHICLES AND THE LIKE. LIONEL M. WOLFFSOHN, (now by judicial change of name Lionel M. Woolson,) Union, N. J., assignor, by mesne assignments, to Bijur Motor Appliance Company, a Corporation of Delaware. Filed Apr. 30, 1917. Serial No. 165,307. 29 Claims. (Cl. 290—41.)



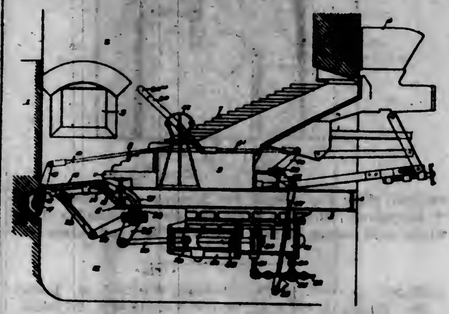
1. In an electric system of distribution in combination, a direct current variable speed generator having terminals, means adapted to maintain substantially constant a function of the output of said generator as its speed varies and means so connected to said generator as to draw therefrom at relatively low speeds a current of a voltage substantially that of the generator terminals, and at higher speeds a current of a voltage rising with such speed.

1,393,597. PROCESS OF PRODUCING TETRA-SUBSTITUTED UREAS. TALBOT J. ALBERT, Jr., Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 25, 1918. Serial No. 255,562. 11 Claims. (Cl. 23—24.)

1. The process of producing tetra-substituted ureas which comprises treating a secondary amin with carbonyl chlorid in the presence of an aqueous solution of a basic inorganic compound capable of neutralizing hydrochloric acid which results from the reaction between the carbonyl chlorid and the secondary amin.

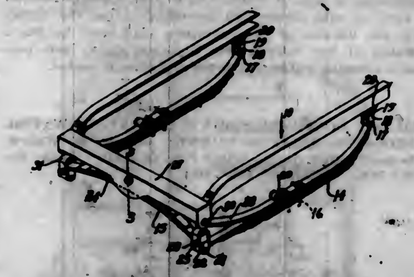
1,393,598. DUMPING APPARATUS FOR STOKERS. MAXWELL ALPERN, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 27, 1918. Serial No. 268,453. 11 Claims. (Cl. 110—33.)

1. The combination in an underfeed stoker of an inclined grate; a dumping plate at the lower end of said grate; power operated mechanism for moving the plate independently of the grate; a hand-operated member for controlling said mechanism; and a manually controlled device independent of the power operated mechanism for normally retaining the plate in an ash carrying position and operative to release said plate when it is desired to dump the ashes thereon.



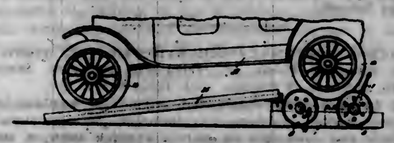
10. The combination in a stoker of an inclined grate; a bridge wall; a dumping plate pivotally mounted in a position to normally support a body of ash between said wall and the grate; with a power actuated device including means operative to raise said plate to its normal ash supporting position and also to cause it to swing above such position to break up clinkers.

1,393,599. VEHICLE-FRAME SUSPENSION. CHRISTIAN ANDREASON, Sacramento, Calif., assignor of fifty per cent. to Louis A. Morrison, Marysville, Calif. Filed Nov. 29, 1920. Serial No. 426,905. 4 Claims. (Cl. 267—46.)



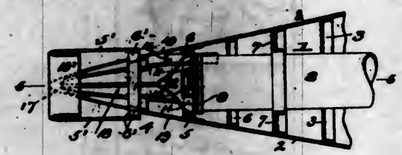
1. A vehicle frame suspension, comprising a pair of spring members for supporting a vehicle frame upon the rear vehicle axle, a pair of spring members secured by their rear ends to the vehicle frame and near the front thereof, and a cross spring centrally pivoted to the vehicle frame and pivotally connected to the forward ends of the front springs.

1,393,600. AUTO-TREADMILL. CLAUS EDWARD ANDERSON, Superior, Wis. Filed Apr. 10, 1920. Serial No. 372,790. 2 Claims. (Cl. 74—106.)



1. An auto treadmill, comprising a base, a pair of shafts having a rotary mounting in the base, pulleys fixed to the shafts and located outside of the base, an angle bar at one end of the base having its ends projecting beyond the sides of the base and having openings in its end portions, runways, pins on the under faces of the runways at one end adapted to be positioned in said openings and form inclined tracks to direct the wheels of an automobile onto said pulleys, and means for taking power from one of said shafts.

1,393,601. SUBMARINE TORPEDO-BOAT. JOSEPH BARAJA-FRAUENFELDER, Bridgeport, Conn., assignor to The Lake Torpedo Boat Company, Bridgeport, Conn., a Corporation of Maine. Filed Sept. 5, 1919, Serial No. 321,952. Renewed July 28, 1921. Serial No. 488,237. 10 Claims. (Cl. 114—17.)



1. A submarine torpedo boat, having a torpedo tube opening through the stern thereof, a closure for the muzzle end of the tube, and a cylindrical tubular section formed in the stern section of the boat and open at both ends to the surrounding body of water.

1,393,602. ELECTRICAL CONDENSER. ERNEST ARTHUR BAYLES and HAROLD HIGHAM, Helsby, England, assignors of one-third to Ernest Richard Royston, Liverpool, England. Filed Dec. 22, 1919. Serial No. 346,778. 6 Claims. (Cl. 250—41.)

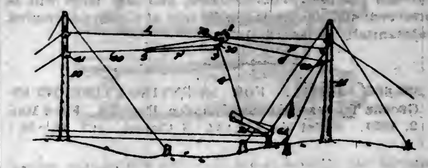


1. An electrical condenser comprising a plurality of condenser units, each unit made up of a series of spaced longitudinally alined condenser bodies electrically connected, a container and means in the container for separately supporting the units.

1,393,603. METHOD OF SEPARATING SODIUM CARBONATE AND POTASSIUM CHLORID FROM NATURAL ALKALINE BRINES. JOHN W. BECKMAN, Berkeley, Calif. Filed July 23, 1919. Serial No. 312,760. 1 Claim. (Cl. 23—22.)

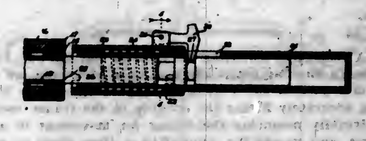
A method of separating sodium carbonate and potassium chlorid from natural alkaline brines consisting of subjecting the brines to solar evaporation until the residual deposit is of a semi solid or slushy consistency, then leaching out said deposit in boiling water, removing the leach liquor containing dissolved potassium chlorid to leave a slush residue containing sodium carbonate, evaporating the solution, primarily by solar heat and subsequently by artificial heat, to a point where crystallization takes place in the evaporator, agitating the drained off solution and filtering it while hot, cooling the liquor passing through the filter to recover the potassium chlorid by crystallization, then adding to the slush residue of the treatment a suitable amount of water containing one third of a ton of a sodium bicarbonate containing liquid in the shape of carbonated slime to each ton of slush treated, agitating the mixture at a maintained temperature of approximately 40 degrees centigrade, then filtering and washing the mixture and drying and calcining the resultant product.

1,393,604. SLACK-PULLER FOR CABLEWAYS. KNUTE BERGH, Seattle, Wash., assignor to Washington Iron Works, Seattle, Wash., a Corporation of Washington. Filed Dec. 20, 1920. Serial No. 431,992. 3 Claims. (Cl. 212—98.)



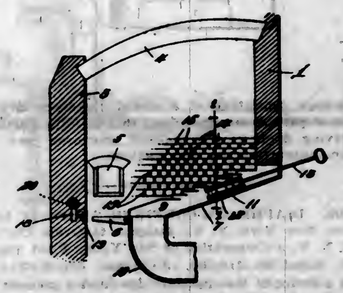
1. The combination with a sheave carried by a cableway carriage, a hoist rope passing over said sheave, a block carried by the hoist rope between the carriage and the head end of the cableway, and a slack pulling rope extending from the carriage through said block and back with its end secured at the carriage.

1,393,605. PACKING-TOOL. KARL BERGSKAUG, Brooklyn, N. Y. Filed Feb. 9, 1921. Serial No. 443,732. 10 Claims. (Cl. 81—3.)



7. A packing tool including a sleeve, handle and stem movable with respect to each other, said sleeve being formed with a reduced portion in its inner face, said handle being formed with a shoulder, a spring arranged within the reduced portion of said sleeve, and having one of its ends bearing against the shoulder of said handle, its opposite end bearing against the inner end of the reduced portion whereby to normally tend to force said handle in a direction opposite to the tendency imparted to said sleeve, and means for limiting said movement.

1,393,606. FURNACE-WALL. ERNEST ERSNITZ, Boston, Mass., assignor to Bernitz Furnace Appliance Company, Boston, Mass., a Corporation of Massachusetts. Filed Dec. 12, 1916. Serial No. 136,535. 8 Claims. (Cl. 110—75.)



8. In a furnace for sustained operation at high temperatures, a fuel support, fixed walls for confining the fuel on the support, said walls being made of non-metallic refractory material with fuel contacting faces of said material having a multiplicity of apertures therethrough in the fuel confining area, and with interior air supply passages

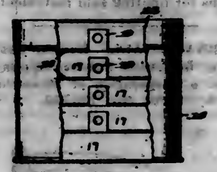
formed entirely by the non-metallic refractory material of said walls and communicating with said apertures, and means for supplying relatively cool air under pressure to said passages and apertures whereby said air will be forced under pressure into the body of supported and confined fuel through the fuel confining faces, and said faces will be preserved and the formation thereon of clinkers prevented, substantially as described.

1,393,607. DEVICE FOR MOUNTING TIMEPIECES. GEORGE THOMAS BLUNDEN, London, England. Filed Mar. 2, 1921. Serial No. 449,192. 4 Claims. (Cl. 58—56.)



1. A time piece mounting for vehicles and the like, comprising an annular frame adapted to be secured to an appropriate part of the vehicle, a comparatively deep bezel casing accurately fitting the opening in the frame, means for pivotally mounting the casing for movement in said opening, and means for supporting a time piece in said casing.

1,393,608. ARTICLE OF MERCHANDISE. WILLIAM R. BOYCE, New York, N. Y. Filed Feb. 24, 1920. Serial No. 360,730. 1 Claim. (Cl. 206—46.)



A package consisting of a closed container inclosing portions of packed substance, and thin metallic partitions each having diametrically opposed apertured ears, said partitions separating the said portions.

1,393,609. DIAPHRAGM-CONFINER. KATHLYN LOGAN BURNS, New York, N. Y., assignor to Ovida Co., New York, N. Y., a Corporation of New York. Filed Aug. 19, 1919. Serial No. 318,500. 3 Claims. (Cl. 2—75.)

1. In a device of the character described a garment provided with a band of flexible material of a substantially uniform width and having a length to extend entirely around the person using the device with sufficient material to provide overlapping ends whereby a double ply front is presented, said front being arranged centrally and at the front of the person using the device, said band when in position extending a short distance below the waist line and a short distance above the waist line for presenting a bearing structure to the body at the point



where it contacts therewith and fastening means for securing the respective ends to the band adjacent the point where they contact with the band.

1,393,610. MACHINE ELEMENT. ZENAS P. CANDEE, Waterbury, Conn., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a Corporation of Connecticut. Filed Apr. 15, 1920. Serial No. 374,149. 8 Claims. (Cl. 287—52.)

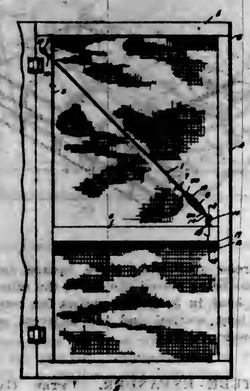


1. Mechanism of the character described, having a control member; a plurality of sections grouped together and around said central member, means for holding said sections in a fixed relation to said central member against centrifugal force, means for holding said section against lateral movement relative to said central member, and means independent of said sections for securing said central member.

1,393,611. DOOR AND GATE BRACE. HARRY S. CARLS, Chicago, Ill. Filed Oct. 21, 1919. Serial No. 332,260. 1 Claim. (Cl. 20—26.)

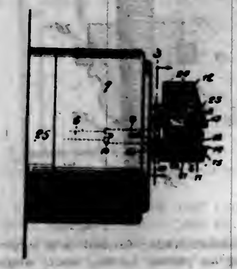
A brace attachment for a closure consisting of a bushing disposed in a transverse opening in the closure, a flange on one end of the bushing abutting one face of the closure, a rod having a portion journaled in the bushing

and provided with a head impassable through the bushing and engaging the flanged end, said rod extending across



the other end of the bushing, and the other face of the closure, and securing means engageable with said rod and the closure at a distance from the bushing.

1,393,612. ELECTRIC SWITCH. HOYT CATLIN, Fairfield, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Mar. 2, 1921. Serial No. 449,058. 4 Claims. (Cl. 200—167.)

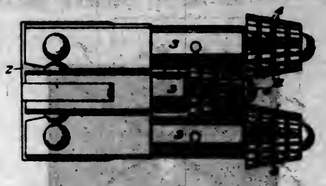


1. A rotary snap switch comprising a one-way rotary snap switch mechanism, legends for indicating the connections established by the switch, a handle having a one-way connection with the switch mechanism, an associated pointer coöperating with the indicator legends, and spring means for returning said handle and pointer to predetermined position with respect to the switch mechanism after rotation of said handle in opposition to said one-way connection.

1,393,613. CUTTER FOR TUBE-CLEANERS AND OTHER PURPOSES. WILLIAM S. ELLIOTT, Pittsburgh, Pa. Filed Nov. 22, 1918. Serial No. 263,685. 2 Claims. (Cl. 83—64.)

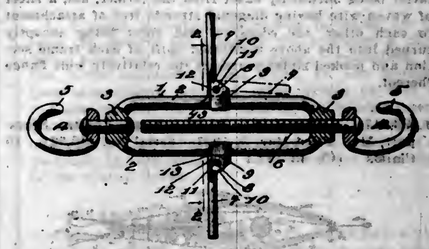
1. As a new article of manufacture, a cutter for the purposes described, said cutter comprising a frusto-conical body having peripheral teeth extending longitudinally thereof, some of said teeth being staggered with respect to

others thereof and said body being composed of a plurality of separate endwise abutted sections having inter-



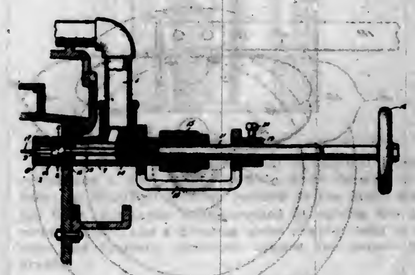
locking engagement with each other, whereby the sections are maintained in fixed relation to rotate as a unit about a common axis, substantially as described.

1,393,614. TURNBUCKLE. SALVATORE PERRAGANO, Santa Barbara, Calif. Filed Feb. 4, 1921. Serial No. 442,460. 5 Claims. (Cl. 85—36.5.)



1. A turnbuckle comprising a supporting or connecting frame, an engaging device carried by said frame, means for permitting the relative movement of said frame and engaging device, and an operating device including a handle pivoted to said frame and adapted to be swung outwardly, whereby the frame can be easily turned.

1,393,615. REGULATOR. IRVING J. FOLTZ, Seattle, Wash. Filed May 1, 1920. Serial No. 378,207. 4 Claims. (Cl. 251—154.)



4. A regulator, including a piece of tubing, a cap secured to one end of said tubing, said cap being formed with an opening, a spindle projecting through said tubing and cap, the outer end of said spindle extending through said opening, said spindle being triangular in cross section adjacent its inner end portion, such triangular portion contacting with the inner face of said cap whereby to hold the said spindle centrally with respect to the cap opening and tube.

1,393,616. ADJUSTABLE WINDOW-SCREEN. SAMUEL G. POSTEN, Westfield, N. J. Filed Feb. 25, 1921. Serial No. 447,696. 5 Claims. (Cl. 156—14.)



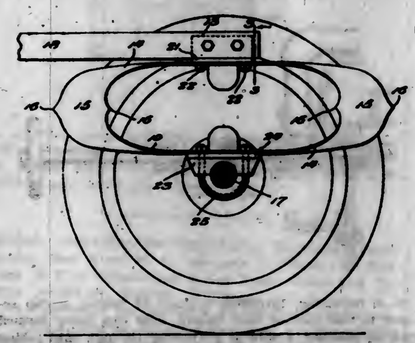
3. An adjustable window screen comprising a frame formed of adjustably connected frame sections, each frame section being hollow and of substantially rectangular form in transverse section with one side longitudinally split to form relatively wide and narrow side flanges, the latter being outwardly offset from the former, and a sheet of woven wire having diagonal strands free of attachment to each other, the edges of said sheet being abruptly turned into the above mentioned split of each frame section and hooked slidably around the relatively wide flange thereof.

1,393,617. ARTIFICIAL BAIT. JOHN FRAMB, Searsport, Me. Filed Mar. 3, 1921. Serial No. 449,321. 10 Claims. (Cl. 43—47.)



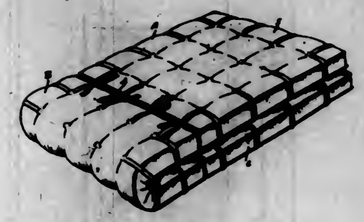
1. An artificial bait having a laterally flexible tail portion, a drum in said bait, elements winding in opposite directions on said drum and connected with said tail, and an element winding on said drum and adapted to connect with a fish line.

1,393,618. SPRING. ROY EDW. GAINES, Evansville, Ind. Filed June 4, 1920. Serial No. 386,456. 4 Claims. (Cl. 267—36.)



2. A spring embodying a substantially elliptical shaped body having a central opening therein and bent to provide spaced bowed resilient members and resilient end members connecting the bowed members at one side edge of the latter and attaching lugs extending from the opposite side edges of the bowed members.

1,393,619. MATTRESS. PATRICK GARDNER, Brooklyn, N. Y. Filed Apr. 7, 1921. Serial No. 460,431. 2 Claims. (Cl. 5—13.)



1. A mattress comprising three square sections, two of said sections being placed one above the other, the third section being bent in half, and means for connecting the ends of the bent section and the adjacent ends of the upper and lower sections.

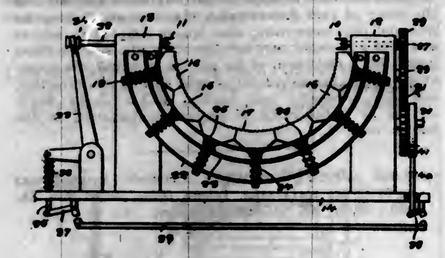
1,393,620. TUBE-EXPANDER. PETER GAVIN, Vancouver, British Columbia, Canada. Continuation of application Serial No. 268,657, filed Dec. 28, 1918. This application filed July 15, 1921. Serial No. 485,007. 1 Claim. (Cl. 153—80.)



A sectional tube expander formed in a large number of sections meeting on planes having acute angles to each other, and having a bore provided with a squared thread extending throughout its length and having projecting flanges at one end, the said sections having a rounded nose at one end adapted to enter the tube to be expanded, and a recessed flange at the opposite end of larger diameter than the nose, a correspondingly threaded and tapered pin fitting said bore and rotatable therein, said pin being so fitted to the bore as to spread the expander sections at all points of its travel therethrough, means formed upon one end of said pin whereby rotation may be imparted thereto, a rubber ring engaging the said recessed flange, and a second rubber ring engaging the projecting flanges of the expander adapted to retain them in operative position on the pin.

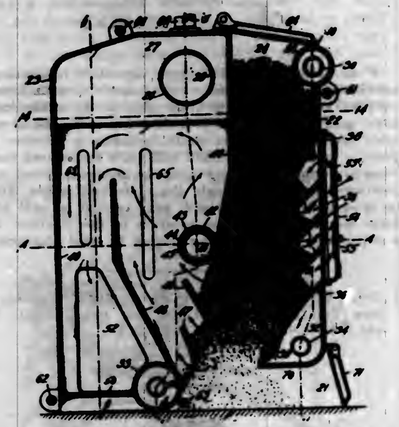
1,393,621. OIL-EXTRACTING APPARATUS. VINCENT GIAMPIETRO, Baltimore, Md. Filed Jan. 12, 1920. Serial No. 356,973. 4 Claims. (Cl. 146—9.)

1. An apparatus of the class described having an arcuate flexible knife consisting of a plurality of independently movable yieldingly sustained blades provided with serrated faces, and means for revolubly supporting fruit



in surface contact with the operative faces of said knife blades.

1,393,622. BOILER. FRANK B. HOWELL, Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill., a Corporation of New Jersey. Filed Oct. 23, 1914, Serial No. 868,193. Renewed Mar. 8, 1921. Serial No. 450,672. 4 Claims. (Cl. 110—30.)



1. In a boiler, a grateless fuel receptacle having an unobstructed discharge outlet, and an ash pit positioned below said receptacle and communicating with said discharge outlet; said fuel receptacle comprising a burning portion of substantially uniform cross-sectional area, and a downwardly-tapering ash portion communicating with said burning portion and with said ash pit whereby to provide a constant volume of ash for supporting the fuel in said receptacle during the process of transmutation thereof into ash, and means for providing a draft transversely through the burning portion of said receptacle, substantially as specified.

1,393,623. PROPELLENT SMOKELESS-POWDER CHARGE. CLARENCE I. B. HENNING, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Jan. 16, 1920. Serial No. 351,894. 15 Claims. (Cl. 52—4.)

1. A propellent charge comprising a progressive burning nitrocellulose powder of the surface treated type associated with a supplementary priming charge consisting essentially of an easily ignitible propellent powder.

1,393,624. SPEED-INDICATING INSTRUMENT OR THE LIKE. HAROLD WALTER HENKE, Lewisham, London, England. Filed Jan. 29, 1920. Serial No. 354,867. 2 Claims. (Cl. 264—20.)



1. A speed indicating instrument including an indicator, an element for actuating the indicator, a carrier frame rotatively responsive to speed, a centrifugal control device mounted in said frame, an arm projecting from said control device, a table pivoted on said arm and adapted to actuate said element, and gearing intermediate said table and the carrier frame to move the table on its pivotal mounting to maintain it in a position substantially at right angles to said element in all positions of the control device.

1,393,625. TOOL FOR GRINDING INTERNAL CYLINDRICAL SURFACES. JOHN ROBERT HOBBS, London, England. Filed June 15, 1920. Serial No. 389,192. 8 Claims. (Cl. 51—206.)

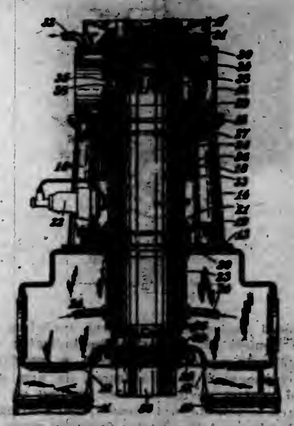


1. A tool for grinding internal cylindrical surfaces, comprising a body, cages held in ways formed in the body, an abutment member secured to the lower end of the body, the cages being recessed to receive the abutment member, and a grinding stone slidably held in each cage and normally projected toward the article being ground.

1,393,626. INTERNAL-COMBUSTION ENGINE. KARL OTTO KELLER, Sunderland, England, assignor of one-half to Robert Pile Doxford, Sunderland, Durham, England. Filed Jan. 6, 1921. Serial No. 435,353. 2 Claims. (Cl. 123—173.)

1. For an internal-combustion engine the combination with a cylinder located upon supports so arranged as to permit it to expand lengthwise, and a water-jacket cas-

ing surrounding it but free from it at places where the cylinder and casing are permitted lengthwise movement in relation to one another due to differences of expansion between the casing and the cylinder, of an entablature that is separate from the said cylinder and the said casing, carries the weight of and the stresses set up in



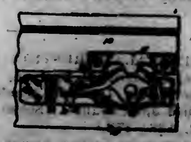
and by the standing upper portion of the engine structure, and diverts through itself away from the lower parts of the cylinder and casing to the standing lower portion of the engine structure the lateral stresses, that otherwise would travel down to said standing lower portion by way of said lower parts of the cylinder and casing.

1,393,627. CINDER-GUARD. CHARLES WILLIAM KENNON, Tampa, Fla., assignor of one-half to William W. Pemble, Leesburg, Fla. Filed July 1, 1921. Serial No. 481,881. 3 Claims. (Cl. 105—350.)



1. An improved cinder guard comprising a body portion adapted to receive cinders, a screen over the body part, and a flue communicating with the body part and adapted to convey the cinders therefrom below the line of a car window, substantially as described.

1,393,628. WINDOW OR KEY LOCK. BENJAMIN LEICHTER, Brooklyn, N. Y. Filed June 25, 1920. Serial No. 391,644. 1 Claim. (Cl. 292—210.)



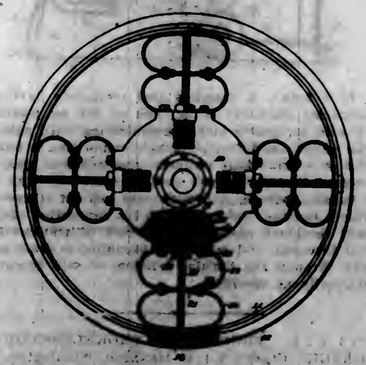
A locking device for a window or door lock, comprising a base having means whereby it may be secured in position adjacent to the member to be locked, and a member hinged to the base and having a pair of spaced fingers at one end, one of said fingers relatively short and flat and the other of said fingers relatively long and having its free end bent outwardly, said fingers adapted to receive and hold a movable part between them, the shorter finger permitting a movement of the part to be locked, the longer finger preventing movement of said part in one direction, and said outwardly bent portion of the longer finger serving as a fingerhold to permit manipulation of the hinged member.

1,393,629. MERRY-GO-ROUND. ANTHONY LEWANDOWSKI and MICHAEL KATAFIASZ, Toledo, Ohio. Filed Nov. 18, 1920. Serial No. 424,966. 1 Claim. (Cl. 46—27.)



A merry-go-round of the type described comprising a mounting base, a bearing block secured to said base, a vertical shaft projecting from said block, a horizontal bevel gear upon the end of said shaft, a platform rotatably mounted upon the shaft including a circular top plate, a spider frame beneath said plate and spaced therefrom by suitable spacing blocks, the horizontal bevel gear positioned between the said top plate and spider frame in mesh with a vertical bevel gear carried by said platform means for imparting rotation to the platform and a depending band sheathing carried by said platform.

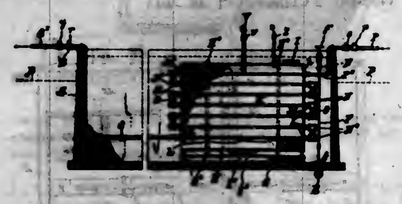
1,393,630. SPRING-WHEEL. ANDREW F. MCGRATH, New York, N. Y. Filed Feb. 16, 1921. Serial No. 445,401. 2 Claims. (Cl. 152—28.)



2. A wheel of the class described including a hub section, a rim separate from the hub section, resilient spokes movable axially relatively to the hub, and adapted to flex laterally, springs acting on the inner ends of said spokes, the outer ends of the spokes being secured to the rim, springs disposed at opposite sides of each spoke and secured at their inner ends to the hub, additional springs

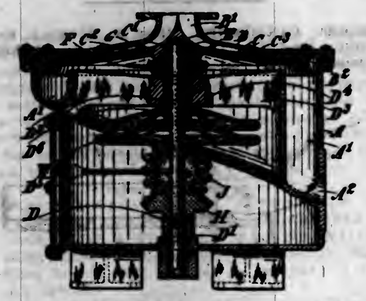
placed radially outward from the second-mentioned springs, collars slidable on the spokes, and means fastening the adjacent ends of the second-mentioned and third-mentioned springs to said collars.

1,393,631. APPARATUS FOR COOLING OIL OR OTHER HEATED LIQUIDS. RALPH A. METZ, Baton Rouge, La. Filed Feb. 19, 1920. Serial No. 359,951. 8 Claims. (Cl. 257—240.)



1. Apparatus for cooling oil or other hot liquid, comprising a reservoir, means for delivering water to said reservoir and for conveying it away therefrom when it reaches a predetermined level in said reservoir, with means for draining said reservoir when desired, a closed cooling tank mounted in said reservoir and normally submerged in the water contained therein, the said tank being provided with separate passages for the flow of the hot oil and the cooling water, with means for delivering the hot oil to one set of such passages, and the cooling water to the other set, substantially as described.

1,393,632. APPARATUS FOR MAKING EMULSIONS. GEORGE MITCHELL, London, England. Filed Nov. 1, 1920. Serial No. 420,956. 14 Claims. (Cl. 259—7.)



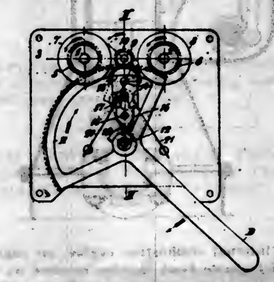
1. An apparatus for making emulsions, comprising two members spaced apart face to face, means for producing relative movement between said members, and means for introducing material between said members and for discharging the material at their margins, at least one of said members having corrugations on the inner face thereof disposed obliquely to the direction of relative movement between the members the troughs of said corrugations diminishing in depth toward the discharge margin at which a narrow gap is afforded, substantially as described.

1,393,633. METHOD OF AND APPARATUS FOR PICKLING RODS, PIPES, AND THE LIKE. JAMES T. MOLTRUP, Beaver Falls, Pa. Filed July 10, 1920. Serial No. 395,940. 14 Claims. (Cl. 266—7.)

1. The herein described method of pickling, which comprises placing the articles to be pickled in a carrier, moving the carrier bodily through a pickling bath, and causing the articles to move within the carrier during their progress through said bath, substantially as described.



1,393,634. MACHINE FOR GRINDING SHAVING MACHINE BLADES. MORTEN WILHELM MÖLLER and ALBERT EJNAR HARMS, Copenhagen, Denmark, assignors to Mekanisk Industri-Company Ltd., Copenhagen, K, Denmark. Filed Aug. 1, 1918. Serial No. 247,895. 5 Claims. (Cl. 51—36.)



1. Grinding apparatus for safety razor blades, comprising a frame, a pair of grinding rollers carried by said frame, gear wheels provided on said rollers, a pivoted member comprising a cam member, toothed segment engaging with said gear wheels and an oscillating handle attached to the pivoted member whereby said pivoted member may be manually oscillated, a blade holder and means adapted to contact with said cam for maintaining the blade in contact with the rollers during their oscillation and for oscillating the blade holder.

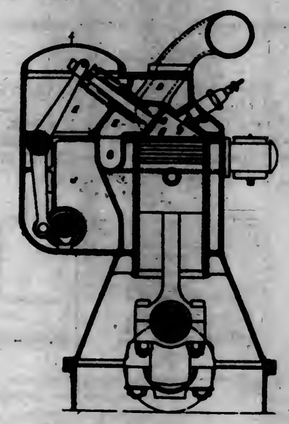
1,393,635. ELECTRICAL BRUSH. HELEN R. MONDY, Atlantic City, N. J. Filed Feb. 12, 1921. Serial No. 444,621. 1 Claim. (Cl. 219—21.)



An electric brush for drying hair comprising a hollow body having a metal plate of convex surface and fitted into the open face of the body and held in place by the overturned edge of the body; bristles fitted into the convex face of the metal plate with their free outer ends forming the working surface of the brush; a tubular handle adapted to be screwed into the end of the body of the brush, a metal core extending through the handle into the body of the brush, a plug secured in the outer end of the handle, and a heating element formed of resistance wires passing through the plug into the core to heat the body of the brush and the convex plate carrying the bris-

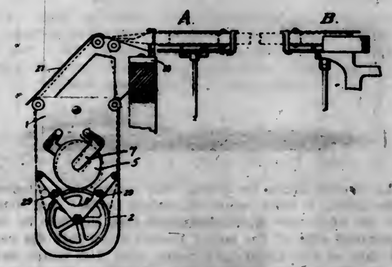
tion, a second plug to which the outer ends of the resistance wires are fastened and which is adapted to be screwed onto a wall socket to obtain the current for transmission to the bristles, all as and in the manner substantially as described and shown.

1,393,636. CYLINDER OF COMBUSTION-ENGINES. THOMAS BLACKWOOD MURRAY, Scotstown, Scotland. Filed Oct. 31, 1918. Serial No. 260,526. 4 Claims. (Cl. 123—193.)



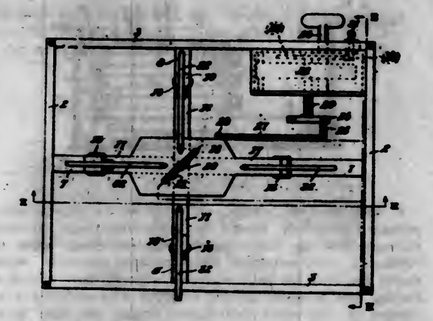
1. In an internal combustion engine, an engine cylinder and a detachable head therefor recessed on its inner face to afford a combustion space of the conoidal or ungulate form described, in combination with inlet and exhaust valves arranged in the side wall of said recess forming the combustion space, and with their axes so inclined that they may be withdrawn through said space in the cylinder head when the latter is detached together with a valve-operating means arranged at the side of the cylinder in the main cylinder casing and below said removable head to permit the ready detachment of the latter.

1,393,637. COATING-MACHINE. HYDESABURO OHASHI, New York, N. Y., assignor to Hydesaburo Ohashi & Co., Inc., New York, N. Y., a Corporation of Delaware. Filed Sept. 21, 1917. Serial No. 192,530. 7 Claims. (Cl. 91—50.)



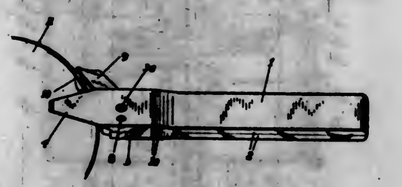
1. A coating machine comprising a movably mounted container for a coating substance, the said container having perforations therein for the discharge of said substance therefrom and an automatically controlled ring directly operating relatively of the discharge perforations to cause a discharge of the substance from said container when the latter is in motion, the said ring through its eccentric relation to the walls of the container serving to close the perforations at the base of the container as and for the purpose set forth and means bearing against the ring for holding the base thereof against the walls of the container at a point below the horizontal axis of the latter.

1,393,638. MECHANICAL TOY. FRANK OLKOWSKI, Three Lakes, Wis. Filed Feb. 10, 1921. Serial No. 443,910. 2 Claims. (Cl. 46—40.)



1. A mechanical toy comprising a casing, fixed supports within the casing, a pair of crossed sliding members within the casing moving in directions at right angles to each other, figure toys including supporting frames pivoted to the fixed supports and the sliding members, a spring motor mechanism, a pitman connection between the motor mechanism and one of said slides and a pin and slot connection between the slides.

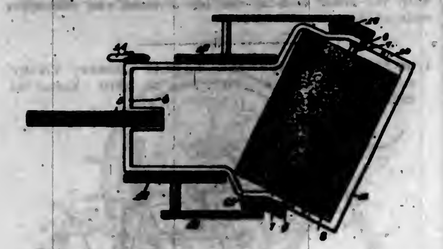
1,393,639. CAN-OPENER. GOFF N. NUTWELL, Fresno, Calif. Filed Jan. 12, 1920. Serial No. 350,826. 1 Claim. (Cl. 30—3.)



A can opener comprising a relatively flat forked handle, an arm pivoted immediately under the topmost fork-member and provided with a downwardly pointing cutting element at its outer end, said element projecting beyond the fork, a can-engaging ratchet fixed between the forks under the arm, and a broad extension projecting from the upper fork member and adapted to rest on top of the can to maintain the handle and cutter in proper alinement relative to the can-top.

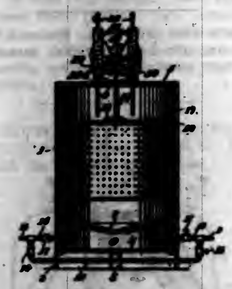
1,393,640. SIDEWALK SNOW-SWEEPER. JOSEPH PANTALEONE and MICHAEL ZODA, Trenton, N. J. Filed Nov. 5, 1920. Serial No. 422,106. 1 Claim. (Cl. 15—17.)

A cleaner including a frame, non-alined wheels mounting and balancing said frame, a shaft journaled to said frame, a cleaning element encircling said shaft, bevel gears mounted to each end of said shaft, bevel gears associated with said frame and meshing with said first-mentioned bevel gears, sprocket wheels associated with said last-mentioned bevel gears, further sprocket wheels asso-



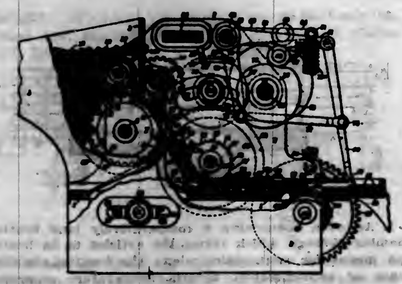
ciated with each of said non-alined wheels, and driving chains connecting said sprocket wheels adapted to drive said cleaning element on both ends.

1,393,641. CLEANING APPARATUS. THOMAS H. RICHARDSON, Lexington, N. C. Filed June 14, 1921. Serial No. 477,483. 8 Claims. (Cl. 8—8.)



2. Clothes cleaning apparatus comprising a tank having a steam chamber adjacent the lower end thereof, means for supplying steam to said chamber, a perforated tumbler reciprocal in said tank, a rod connected to the upper end of said tumbler and extending through the upper end of the tank, a cross head adjustably secured to said rod above the tank, a power shaft journaled above the tank, a disk secured to said power shaft, and operative connections between said disk and rod.

1,393,642. APPARATUS FOR FEEDING, OR BOTH FEEDING, AND COUNTING, CIGARETTES FOR PACKETING, APPLICABLE ALSO TO ANALOGOUS PURPOSES. WILLIAM ROSE, Gainsborough, England. Filed Jan. 8, 1921. Serial No. 435,914. 3 Claims. (Cl. 226—5.)



1. In a machine of the character described, a hopper, a chute, means for feeding articles such as cigarettes from the hopper to the chute, a rotatable engaging wheel associated with said chute and having peripheral projections to separately engage and feed forward from the chute each article therein, and a coacting endless chain having projections facing the projections on the engaging wheel and spaced to separate the articles into batches, the projections on the chain being arranged to substantially oppose certain of the projections on the engaging wheel and to enter between adjacent articles at the end of a batch, substantially as set forth.

1,393,643. THREAD-CUTTING SHUTTLE. WILLIAM M. ROSSITER, Sunbury, Pa. Filed Feb. 3, 1921. Serial No. 442,190. 11 Claims. (Cl. 139—46.)



9. A cutting device for a shuttle comprising a stationary cutting element, and a swinging guiding element carried by said stationary cutting element.

1,393,644. METHOD OF MAKING PNEUMATIC-TIRE SHOES. FLOYD W. RUSSELL, Akron, Ohio. Filed Apr. 4, 1916. Serial No. 88,785. 3 Claims. (Cl. 154—14.)

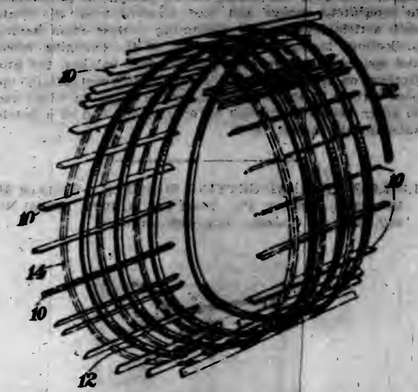


2. That improvement in methods of making a structure for incorporation in a tire-shoe which consists in folding a single unitary tubular sheet of textile fabric, consisting of a plurality of strength-giving cords extending in parallelism, said sheet being of sufficient diameter entirely to encompass the structure and form a complete layer of the structure to be built during each folding operation, folding said sheet laterally from side to side across a forming core to thereby provide repeated layers of said fabric with the fold lines of said sheet disposed near the lined edges of said forming core and with the strength-giving cords of alternate layers arranged at right angles with respect to each other and oblique to the longitudinal line of the structure.

1,393,645. CONSTRUCTION OF BODIES OF FLYING-BOATS AND LIKE LIGHT VESSELS. HUBERT SCOTT-PAINE, Southampton, England. Filed Apr. 10, 1920. Serial No. 373,365. 3 Claims. (Cl. 114—66.5.)

1. In a body for flying-boats and like light vessels, the combination of longitudinal stringers set edgewise, hoop-

timbers formed as a continuous spiral inside said endangers extending across and secured to all of them, bent-timbers



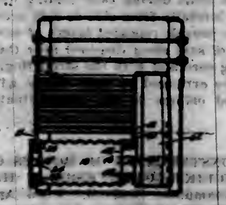
outside said stringers and secured to all of them, and a skin outside the bent-timbers.

1,393,646. LIQUID-FUEL FITTING FOR FURNACE FRONTS. LANCELOT EUSTACE SMITH, South Shields, CORNELIS ZULVER, London, and HERBERT ALEXANDER THOMPSON, North Shields, England. Filed Sept. 6, 1919. Serial No. 322,211. 2 Claims. (Cl. 110—22.)



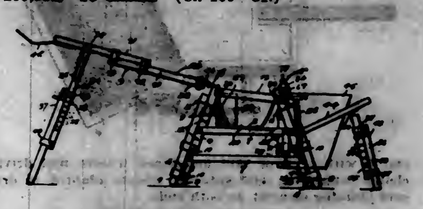
1. In combination, a furnace front having a firing opening, front and rear plates secured about the opening, a saddle plate connecting said front and rear plates and forming therewith an air heating chamber about the firing opening, said air heating chamber being in controlled communication with the atmosphere, burners held in said front plate and projecting through the air heating chamber, air cones mounted in said rear plate and setting up communication with the interior of the furnace and said air heating chamber, the inner ends of the burners lying in said air cones, and regulating cones fitted within said air cones, substantially as described.

1,393,647. ARCH FOR FIREBOXES. FRANK J. SPILLANE, Brooklyn, N. Y. Filed Apr. 2, 1920. Serial No. 370,689. 5 Claims. (Cl. 110—97.)



1. An arch for an oil burning fire box, comprising top sections joined at their upper ends on a vertical center line, bottom sections joined at their lower ends on the said vertical center line, and side sections slidably joined with the lower ends of the top sections and the upper ends of the lower sections.

1,393,648. CORN-HUSKING TABLE. ROBERT THOMPSON, Bakerstown, Pa. Filed May 23, 1919. Serial No. 299,082. 16 Claims. (Cl. 100—31.)



1. A corn husking table including a frame, pivoted corn stalk receiving arms carried by the upper ends of said frame, and resilient means for normally holding the arms in raised position.

1,393,649. ELECTRIC SWITCH. WILLIAM DAN THROOP, Norwich, Conn. Filed Apr. 6, 1920. Serial No. 371,690. 7 Claims. (Cl. 200—76.)



1. A pendant switch, comprising a supporting block of non-conducting material, two pairs of electric contacts on said block, a sliding plate of non-conducting material guided on the block, contact blocks carried by the plate and movable into engagement with the contacts, a sliding button having longitudinal movement relative to the block and at one side thereof and having spaced relationship to the block, a pivoted ball engaging the plate, and a spring connecting the free end of the ball with said button.

1,393,650. OVEN. SAMUEL THOOS, Pittsburgh, Pa. Filed Sept. 24, 1920. Serial No. 412,975. 19 Claims. (Cl. 25—142.)



1. An oven comprising a comparatively long heating chamber through which travel the articles to be heated, and means for maintaining along the heating chamber zones of approximately uniform temperature separated by zones of changing temperature, substantially as described.

1,393,651. RESILIENT WHEEL. ANDREW TOURTELL, Santa Ana, Calif. Filed May 27, 1920. Serial No. 384,603. 6 Claims. (Cl. 152—32.)



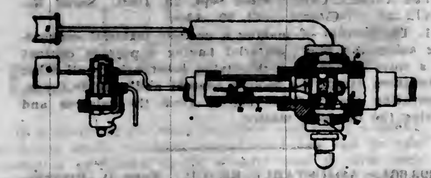
2. A resilient wheel comprising a hub portion; cushioning means surrounding said hub portion; a tread portion surrounding said cushioning means; side plates fixed relative to said hub portion and received against the sides of said tread portion; said tread portion and said side plates having cooperating slots therein; fingers extending through said slots and engaged by said side plates, and spring connections between said fingers and said tread portion.

1,393,652. ADJUSTABLE HAT-LINING OR BANDEAU. MAXIME L. VAN HUELE, New York, N. Y. Filed Jan. 31, 1921. Serial No. 441,267. 6 Claims. (Cl. 2—113.)



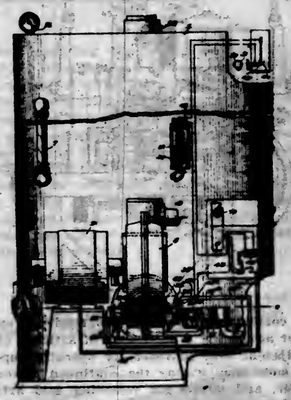
1. In combination, a hat lining or bandeau having a continuous ring-shaped piece of flexible material provided with an inner hem and an outer hem, a constricting member in the said inner hem to permit of adjusting the said piece of flexible material, and a strip of spring material contained in the said outer hem, and points on the said strip for fastening the hat lining or bandeau to a hat, at least one of the said points being slidably mounted on the said strip.

1,393,653. VENT-VALVE. JOHN ULRICH, St. Louis, Mo. Filed Apr. 30, 1920. Serial No. 378,644. 7 Claims. (Cl. 303—41.)



1. In an air brake of the character described, in combination, a brake cylinder, a triple valve, a pipe connection between said triple valve and said brake cylinder, a check valve interposed in said pipe connection, said pipe connection having an opening to the atmosphere intermediate said check valve and said triple valve, and a valve controlling said opening and connected to said check valve, all as and for the purposes set forth.

1,393,654. AUTOMATIC HEATING SYSTEM. NATHANIEL B. WALES, Boston, Mass., assignor, by mesne assignments, to The Wales Company, Kalamazoo, Mich., a Corporation of Michigan. Filed Feb. 17, 1921. Serial No. 445,640. 3 Claims. (Cl. 236—9.)



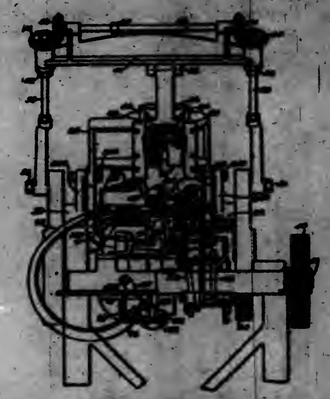
1. In a heating system of the type described, a heating appliance, a fuel-burning nozzle connected thereto, a motor-actuated blower having a continuously open discharge conduit connected to said nozzle, a source of gaseous fuel connected to said nozzle and a valve therefor, and means operating to open or close the gas supply valve in response to the static pressure in said nozzle, said valve being located exterior to said conduit.

1,393,655. BOWLING-PIN. ROBERT J. WILKIN, Newton, Mass., assignor to Stowe & Woodward Company, Newton Upper Falls, Mass., a Corporation of Massachusetts. Filed Mar. 8, 1921. Serial No. 450,782. 4 Claims. (Cl. 46—66.)



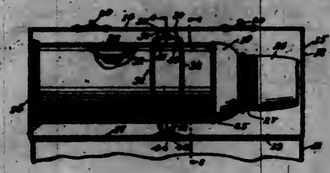
1. A bowling pin made of wool felt and having a binder of relatively soft rubber.

1,393,656. TRIMMING-MACHINE. Reastus B. Wheeler, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 19, 1916. Serial No. 137,836. 44 Claims. (Cl. 12—68.)



32. The combination, with a progressively operating conveyer for advancing a succession of articles, of means disposed adjacent said conveyer for operating upon said articles in succession during the continued movement of the conveyer, and means for removing said articles in turn from the conveyer at one station and restoring them thereto after being operated upon at another station.

1,393,657. LUNCH KIT. Gnosen P. Altenbaugh, Cincinnati, Ohio, assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio, a Corporation of West Virginia. Filed Feb. 8, 1919. Serial No. 275,877. 3 Claims. (Cl. 220—22.)



1. In a lunch kit, the combination of a cover arranged to receive a heat-insulated bottle, a substantially stiff strap pivoted to one wall of said cover and extending across the bottle-position to hold the bottle in said cover, and a latch for said strap on the opposite wall of said cover, said latch and substantially stiff strap comprising coacting means limiting movement between said latch and strap and between the opposite walls of said cover, in opposite directions lengthwise of said strap.

1,393,658. HEEL. Sam Armishaw, Portland, Oreg. Filed Aug. 14, 1919. Serial No. 317,555. 1 Claim. (Cl. 36—30.)

A heel for shoes comprising a hollow metal body portion, open at its upper end and having an inturned shoe engaging flange, an annular shoulder formed at the lower end of said body, a circular tread holder adapted for rotatable engagement with the annular shoulder of said body, a tread secured in said tread holder, a rigid extension rising centrally of said holder and projecting upwardly of said body portion to an opening formed in the bottom wall thereof, a fastening screw passed upward through said tread and said holder and threaded into engagement with the lower end of said rigid extension, a pin disposed diametrically of the upper end of



said rigid extension, and a coiled spring surrounding said rigid extension, and interposed between the bottom wall of said body portion and said pin, whereby to retain said tread holder tensioned in adjusted position on said annular shoulder.

1,393,659. WASHING-MACHINE. John M. Baker, Columbus, Ohio. Filed Apr. 21, 1919. Serial No. 291,659. 1 Claim. (Cl. 68—20.)



A washing machine comprising a casing, including a bottom and a perpendicular side wall, a plurality of conduit elements mounted stationarily on the inner face of said side wall, said elements being formed to provide open lower ends which are spaced from said bottom and restricted nozzle forming upper ends, the latter terminating in inclined walls having angularly formed ports provided therein capable of directing a stream downwardly into the casing, flanges projecting from the lower portions of said elements, a perforated supplemental bottom member mounted within said casing and seated upon said flanges in spaced relation from said bottom, said bottom member serving to define a heating chamber which is in direct communication with the open lower ends of said conduit elements, and a perforated ring support for said bottom member lying within said heating chamber and serving to support the central portions of said supplemental bottom member and to entrap foreign matter.

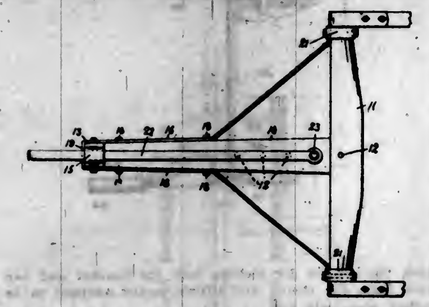
1,393,660. PECTOUS MATERIAL AND PROCESS OF MAKING THE SAME. Franklin G. Butlin, Glendale, Calif., assignor of one-half to Noah W. Schwartzlose, Los Angeles, Calif. Filed Sept. 23, 1920. Serial No. 412,218. 4 Claims. (Cl. 99—11.)

1. The process of making a pectous material comprising subjecting plant material having a pectous content to a solvent capable of dissolving substantially all other substances except the pectous content and cellular tissue, separating the insoluble matter from the solution and drying the insoluble matter.

1,393,661. ADJUSTABLE REACH. Fred H. Bittner, Bottineau, N. D. Filed Aug. 14, 1920. Serial No. 403,445. 1 Claim. (Cl. 280—15.)

A reach device including a transverse head member and a forwardly directed bar, said bar having a plurality

of pin receiving apertures in spaced relation, a ferrule device bearing over the forward end of the bar and including upper and lower guide loops, a U-shaped brace bearing over the forward end of the ferrule and the bar and along the sides of the bar and branching laterally



and attached to the transverse head member, and a clevis device in elongated U-shape slidable through the loops of said guide member and a pin engaging through the sides of the clevis member and through the apertures of the bar.

1,393,662. AUTOMATIC SWITCH-POINT-LOCKING DEVICE. John R. Burress, Tulsa, Okla. Filed Apr. 20, 1920, Serial No. 375,306. Renewed Mar. 3, 1921. Serial No. 449,490. 3 Claims. (Cl. 246—374.)



1. In combination, a railroad switch connecting main and side tracks, switch actuating means, a car actuated member pivotally mounted on the side track, tension means supporting said car actuated member, a locking lever connected to the car actuated member, a shoulder formed on said locking lever, and a notched block secured to the switch actuating means and adapted to receive the shoulder for preventing operation of the switch actuating means when the car actuated member is depressed.

1,393,663. FOUNTAIN-FEED ROTARY BRUSH. Wilfred A. Carver, Buffalo, N. Y. Filed May 1, 1918. Serial No. 231,854. 1 Claim. (Cl. 15—37.)



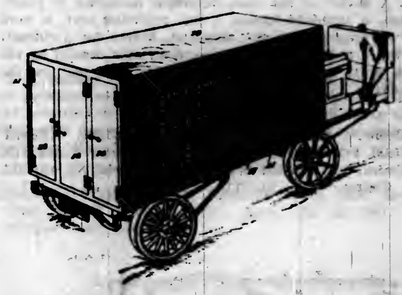
In a device of the class described comprising a casing, a driven shaft rotatably mounted at one end in said casing, a perforated brush, a solid head integral with said brush carried on the opposite end of said shaft to prevent the egress of water adjacent the terminal of said shaft and cause spraying of the water through the side of the brush, means carried by the shaft within the casing for rotating the brush and a removable, circular partition extending into the casing supporting said shaft and serving to direct the flow of water by said means to positively rotate the shaft and said brush.

1,393,664. AIR-BRAKE-PISTON-LEATHER-EXPANDING RING. Stephen G. Clayback, Gardenville, N. Y. Filed Oct. 22, 1919. Serial No. 332,516. 1 Claim. (Cl. 74—109.)



A ring for expanding the piston leathers of an air brake cylinder formed from an annular sheet metal blank, the inner margin of said blank bent outwardly upon itself forming a stiffening portion having flat engaging faces for attaching the ring to the receiving seat of a piston, the outer periphery of the blank being scalloped forming spaced radial fingers bent upwardly in a uniform direction throughout the circumference of the blank at points adjacent the stiffening portion to provide relatively long fingers adapted for resilient bearing upon the piston leather to maintain the latter at all times against leakage and against the wall of the cylinder during the operation of the piston.

1,393,665. ADVERTISING-CABINET. Clarence E. Closson, Potlatch, Idaho. Filed Feb. 3, 1920. Serial No. 355,900. 2 Claims. (Cl. 40—28.)



1. An advertising cabinet having a wall provided with a plurality of apertures therethrough, sockets in the inner side of the wall each immediately adjacent one of the apertures, and a plurality of shutters each having a shank removably and reversibly engaged in one of the sockets whereby the sockets will hold the shutters over the respectively adjacent openings, one face of each shutter being of the same color as the outer side of the wall and the opposite face of the shutter being of a contrasting color.

1,393,666. CHILL-MOLD. Frank Cordes, Pittsburgh, Pa. Filed Dec. 27, 1920. Serial No. 433,107. 3 Claims. (Cl. 22—178.)



1. A mold chill consisting of an annular ring having its chilling surface divided into connected sections sepa-

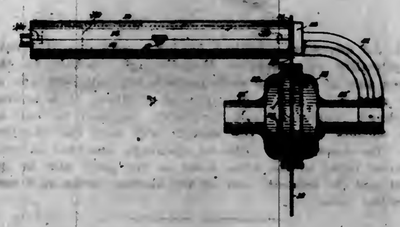
rated by slots or slits, said slots or slits extending obliquely across the inner face of the shell and said inner face forming the outer wall of the mold, substantially as described.

1,393,667. MEANS FOR REFINISHING SEGMENTAL GRINDING-WHEELS. ARTHUR F. CHAMPION, West Hartford, Conn. Filed Apr. 18, 1921. Serial No. 462,286. 4 Claims. (Cl. 125—11.)



1. A device of the class described including in combination, a standard having a tool receiving bore, a work rest associated with the standard, means for yieldingly moving a tool in the bore toward an axis defined by the work rest, and means for clamping the tool in the standard.

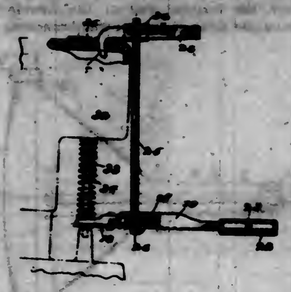
1,393,668. AUTOMATIC ROUGH-GRINDING MECHANISM FOR PISTON-RINGS. JAY HIRAM CUMMINGS, Elmira, N. Y. Filed Dec. 16, 1920. Serial No. 431,215. 6 Claims. (Cl. 51—118.)



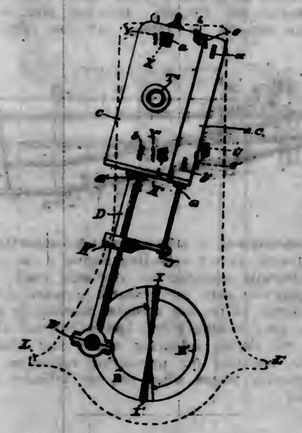
1. A device of the class described comprising a fixed shaft, a hub journaled thereon, a bracket fixed to the shaft having a head at its free end spaced from the periphery of the hub, an outwardly projecting plate carried by the hub having openings adapted for positioning adjacent said head during the rotation of the hub, and automatic jaws carried by the plate adjacent the openings.

1,393,669. VALVE-SPRING LIFTER. LLEWELYN J. DAVIES, Cincinnati, Ohio. Filed June 15, 1920. Serial No. 389,175. 4 Claims. (Cl. 29—86.3.)

1. A valve spring lifter including a fulcrum bar, a coupling sleeve slidably receiving the bar, a supporting bracket for the bar slidably engaged with said sleeve at one side of the bar, means carried by the sleeve to coact with the bracket for locking both the bracket and bar fixed upon the sleeve, and lifting means adapted to be rocked upon said bar.



1,393,670. INTERNAL-COMBUSTION ENGINE. THEODORE E. DAVIS, Brigham, Utah, assignor to Davis Motor Corporation, a Corporation of Utah. Filed Sept. 2, 1920. Serial No. 407,602. 6 Claims. (Cl. 123—42.)



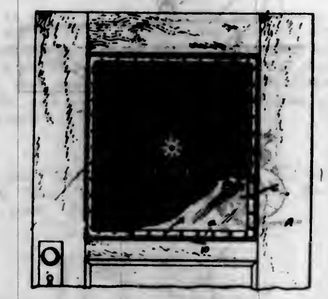
1. A valveless, two-cycle, double-acting, oscillating, internal combustion engine consisting of a power cylinder revolubly suspended on central, oppositely disposed bearings, a piston operating within the cylinder, forming a combustion chamber at each end of the cylinder, a piston rod connecting the piston with a crankshaft terminally connected to a fly wheel, there being ports, laterally and terminally disposed in the cylinder, and penetrating into each combustion chamber of the cylinder; a housing member having oppositely disposed ports coördinating with the ports of the cylinder and operated by the movement of the cylinder; an auxiliary cylinder mounted upon the power cylinder, a piston within the auxiliary cylinder operated by the piston of the power cylinder, there being ports laterally and terminally disposed in the auxiliary cylinder, penetrating into the auxiliary cylinder; the housing member having oppositely disposed ports coördinating with the ports of the auxiliary cylinder, and operated by the movement of the auxiliary cylinder.

1,393,671. DYNAMIC SYSTEM ADAPTED TO IMPART TO A MECHANICAL SYSTEM A RAPID MOVEMENT OF OSCILLATION. LUC LÉON BAUDE DENIS, Paris, France. Filed June 21, 1920. Serial No. 390,575. 4 Claims. (Cl. 74—14.)



1. In a dynamic system adapted to impart to a non-rigid mechanical system a rapid movement of oscillation, a movable part which must take a movement of oscillation, a fixed point, an elastic system connecting the movable part to the fixed point, a non-rotating mass free in space, means giving support to this mass to give action to the movable part.

1,393,672. CURTAIN-SUPPORT. HENRY H. DIEKENS, New York, N. Y. Filed Jan. 6, 1921. Serial No. 435,469. 2 Claims. (Cl. 156—14.)



2. A support for panel curtains, consisting of a length of twisted wires having hooks integral therewith to be engaged with the curtain, there being loops directly at the bases of the hooks to receive fasteners one of the twisted wires being bent forwardly at a side of each hook, then across the hook at the back, then formed into said loop and continued from the inner side of the loop and returned to form the hook and its bill, the return wire being continued into the twisted length at the opposite side of the hook from the said loop.

1,393,673. SILENCER FOR COMMUNION-CUP RACKS. MARIAN P. DINGER, Philadelphia, Pa. Filed Dec. 14, 1920. Serial No. 430,596. 1 Claim. (Cl. 248—20.)



The combination of a communion cup rack having a hole therein for the cup, and a silencer made of rubber, having a thin body portion, and having upper and lower annular ribs extending over and under the rack to hold the silencer in position.

1,393,674. BATTERY-CONNECTOR. WALTER SCOTT DOE, Kent, Ohio. Filed Oct. 25, 1919. Serial No. 333,142. 4 Claims. (Cl. 173—259.)



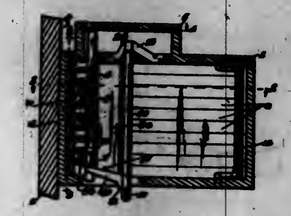
2. A battery conductor, comprising a shell having an end provided with means adapting it to be driven into a lead terminal of a storage battery, said shell being provided with registering apertures for securing an electric conductor thereto.

1,393,675. FLASHLIGHT. WALTER SCOTT DOE, Kent, Ohio. Filed Nov. 2, 1920. Serial No. 421,237. 2 Claims. (Cl. 240—8.5.)



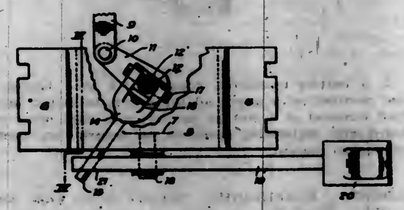
1. A flash light, comprising a casing having a removable cover, a battery in the casing having connecting members, both securing the connecting members to the cover of the casing, the bolts extending through the cover and forming contacts, a housing carrying a lens and pivotally mounted on the cover, an electric lamp in the housing, and contact members on the base of the housing and connected with the lamp and movable into and out of contact with the first mentioned contact by a rotating movement of the housing.

1,393,676. COMBINATION-LOCK FOR AUTOMOBILES. MORTON T. DOWDY, East Bakersfield, Calif. Filed Aug. 5, 1920. Serial No. 401,504. 3 Claims. (Cl. 70—54.)



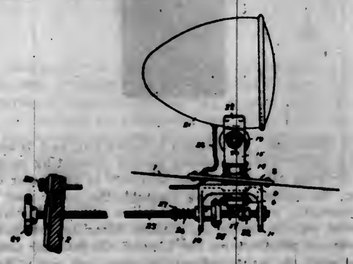
1. A combination lock including a sliding bolt having laterally projecting pins, rock arms, fingers carried by certain of said rock arms and arranged to engage said pins when successively actuated for retracting said bolt, and pins carried by others of said rock arms and arranged to cause projection of said bolt when the push pins for said rock arms are moved.

1,393,677. PARALLEL GROUND-THROW SWITCH-STAND. THOMAS H. EDELBLUTE, Pittsburgh, Pa., assignor to Cincinnati Frog & Switch Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 14, 1921. Serial No. 461,262. 8 Claims. (Cl. 246—411.)



1. A switch stand comprising a supporting member, a bell crank having two arms pivotally carried on the supporting member, means whereby the outer end of one of the arms may be moved in an arc relatively to the other arm, said means including a horizontally pivoted connection, an operating lever pivoted between its ends to the supporting member and arranged to swing through an arc of substantially 180 degrees, a handle portion at one side of the pivot, the part of the lever at the other side of the pivot having an opening therethrough through which passes the relatively movable end of the bell crank arm.

1,393,678. SPOTLIGHT-SUPPORT. ARTHUR FALK, Duluth, Minn. Filed Mar. 1, 1921. Serial No. 448,830. 1 Claim. (Cl. 240—7.)



A control for spot lights of the character described comprising a suitable support, two independently operative concentrically disposed rotatable members in the support, an upwardly extending bracket rigidly fixed to the outermost one of said rotative means, a spot light supported above the bracket, a depending bracket intermediate of the spot light and said first mentioned bracket pivotally attached to said latter bracket, the depending bracket being controlled by the innermost one of said rotative members and manually controlled means for operating the rotative means independently.

1,393,679. LOCK-JOINT. JOHN FORSTER, Los Angeles, Calif. Filed Aug. 25, 1920. Serial No. 405,809. 2 Claims. (Cl. 20—92.)



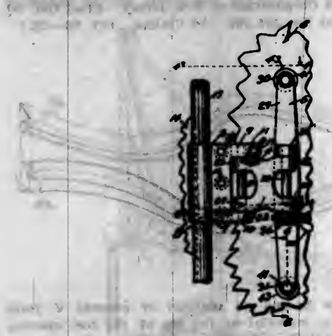
1. A lock joint construction comprising crossed members each having a recessed portion and a slot in longitudinal alinement, the side edges of the recesses and slots being beveled so that the recessed portion of each member may be received within the slot of the other of said crossed members.

1,393,680. SUCTION-DREDGE. OTTO FRÜHLING and CURT FRÜHLING, Braunschweig, Germany. Filed July 26, 1920. Serial No. 399,186. 3 Claims. (Cl. 37—47.)

1. A self-propelled suction dredger comprising a suction head and rotary driven plow shares mounted in front of said suction head and adapted to rotate in such a direction as to assist the forward propulsion of the dredger.

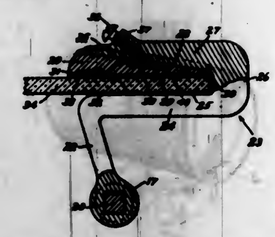
1,393,681. AUXILIARY WINDSHIELD. GEORGE GLAUDEL, Los Angeles, Calif., assignor of one-half to George L. Mitchell, Santa Monica, Calif. Filed Apr. 3, 1919. Serial No. 287,190. 2 Claims. (Cl. 296—84.)

1. An auxiliary windshield comprising a main clamp adapted to be adjustably mounted upon a side bar of a main wind shield, a split clamping bearing upon said main clamp, an attaching plate construction, a split clamping bearing upon said attaching plate construction,



a link pivoted at its respective ends in said split clamping bearings, and a plate connected to the attaching plate construction.

1,393,682. WIND-DEFLECTOR. GEORGE GLAUDEL, Los Angeles, Calif., assignor, by mesne assignments, of fifty per cent. to George L. Mitchell, Santa Monica, Calif. Filed Sept. 22, 1919. Serial No. 325,485. 5 Claims. (Cl. 296—84.)



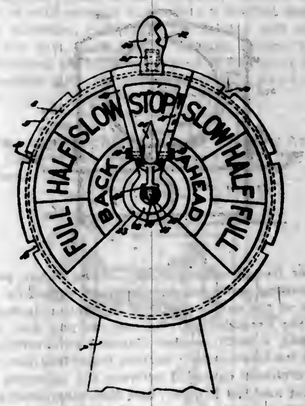
2. An automobile wind deflector comprising a deflector plate and hanger, the latter having means for attachment to a supporting part on the vehicle, and having an arm with a slotted portion to receive the edge of the deflector plate, said means including a wedge complementary to the slot, and a screw tapped through one side of the slot and adapted to engage the wedge.

1,393,683. BAKER'S PEEL. ADAM L. HAPNER, Cincinnati, Ohio. Filed Oct. 27, 1920. Serial No. 420,027. 3 Claims. (Cl. 107—67.)



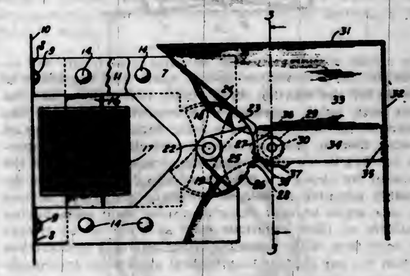
1. A baker's peel comprising a wood blade, a thin metal plate inserted into and extending beyond the front edge of said blade, metal strips secured at the sides of said plate, and engaging over the edge of the blade, shoulder plates secured on said blade, and means for attaching a handle to said blade.

1,393,684. SHIP'S TELEGRAPH. CHARLES J. HENSCHEL, Brooklyn, N. Y. Filed Apr. 4, 1919. Serial No. 287,487. 6 Claims. (Cl. 116—21.)



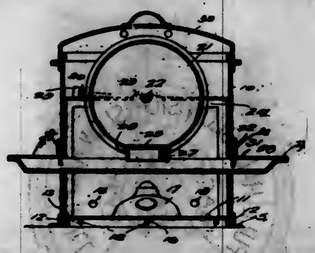
1. In a ship's telegraph the combination of a set of flexible connections extending from one station to another and movable from each of said stations for the purpose of transmitting signals, an actuating device at each station for moving said set of flexible connections in order to transmit a signal, an indicating member at each station to be actuated by said set of flexible connections in order to receive a signal, and mechanism located at each station and controllable at the will of the operator for connecting said set of flexible connections with either said actuating device or said indicating device at the will of the operator and of locking said actuating device in order to render it inactive while said set of flexible connections is connected with said indicating member.

1,393,685. ANNUNCIATOR-DROP. CHARLES J. HENSCHEL, Brooklyn, N. Y. Filed Apr. 25, 1919. Serial No. 292,750. 4 Claims. (Cl. 177—329.)



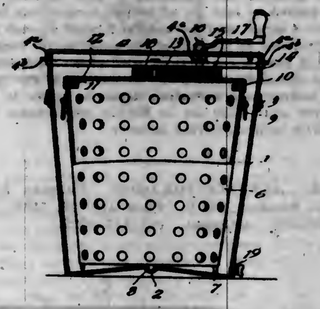
1. The combination of a movable shutter, a rocking shaft connected with said shutter for actuating the same, an armature shaft, means for rocking the same into predetermined positions, and gearing connected with said rocking shaft and driven by said armature shaft in order to actuate said rocking shaft, said gearing including means for stopping said rocking shaft positively in exact-predetermined positions independently of the precise positions in which said armature shaft is stopped.

1,393,686. WATER-TROUGH. LEONARD J. HOSAR and LEONARD L. FURMAN, Williamsburg, Iowa. Filed May 6, 1919, Serial No. 295,158. Renewed Mar. 24, 1921. Serial No. 455,330. 1 Claim. (Cl. 119—73.)



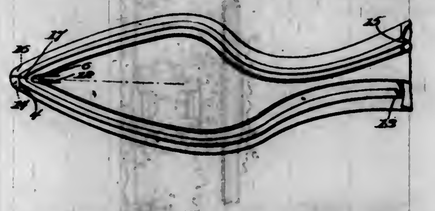
A water trough comprising a housing, a pan positioned in the housing with its end portions extending through the walls of the same, U-shaped brackets attached to the rims of the extended portions of the pan and with upturned ends, a baffle member disposed transversely of the pan with its intermediate portion depending into the pan and its terminals extended between the upturned ends of the bracket and the housing, and fastening devices operating through the upturned ends, the extended terminals of the baffle member, and the housing.

1,393,687. DISH-WASHING MACHINE. MARGARET ELOISE HOSTATER, Westfield, N. Y. Filed Feb. 24, 1917. Serial No. 150,775. 1 Claim. (Cl. 141—9.)



In a dish washing machine an outer imperforate and an inner perforate container spaced apart and supported to provide for the rotation of the inner container within the outer both being provided with removable closures, the closure of the outer container being flanged and having an opening therein, said container having diametrically opposite notches in its upper edge of a depth greater than the flange of its closure, a cross bar having reduced ends detachably mounted in said notches and projecting beyond the side walls of said outer container, said ends having shoulders at their junctions with said bar which engage the inner face of the outer container adjacent said notches to hold the bar against longitudinal movement, intermeshing gears carried by said cross bar and the closure of the inner container, the journal of the cross bar carried gear extending through the opening in the closure of the outer container and equipped with an actuating handle for rotating the gears to operate the inner container, the flange on the outer container closure bearing on said cross bar to assist in retaining said bar in operative position, the closure snugly fitting the upper end of the outer container above the projecting cross bar ends with its flange resting on said ends to assist in retaining the bar in operative position.

1,393,688. SOLE. MERTON E. JOHNSON, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 30, 1919. Serial No. 334,399. 10 Claims. (Cl. 36—22.)



6. An insole having an incision of general V form through the lip material at the tip of the toe, one leg thereof substantially coinciding with the median line of the forepart of the insole and the other leg thereof lying substantially at right angles to said median line.

1,393,689. SANITARY CAN-GATE. AUGUST F. LA GIER, Los Angeles, Calif., assignor of one-third to John F. Miller and one-third to Irving R. Smith, Los Angeles, Calif. Filed Mar. 24, 1921. Serial No. 455,182. 1 Claim. (Cl. 221—64.)



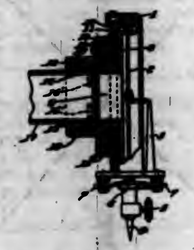
The combination of a closed cylindrical can having a circular flat top provided with a pair of ports, one serving as an air inlet port and the other as a liquid outlet port, said ports being located near the periphery of said top, and on diametrically opposite sides thereof, and a removable gate rotatably mounted on said can, said gate comprising a circular band engaging the upper end of the side walls of the can, and a pair of radial lugs integral with said band, said lugs being bent downwardly to lie flat on the top of the can and arranged on diametrically opposite sides of said band, and adapted to act as slide valves for simultaneously covering or uncovering said ports when said gate is rotated.

1,393,690. FILING-APPLIANCE CASE. EMERSON B. MOSELEY, deceased, Alliance, Ohio, by Metta L. Moseley, administratrix, Alliance, Ohio, assignor to The McCaskey Register Company (Incorporated in 1914), Alliance, Ohio, a Corporation of Ohio. Original application filed May 26, 1915, Serial No. 30,672. Divided and this application filed Oct. 11, 1918. Serial No. 257,783. 11 Claims. (Cl. 217—60.)

1. In a filing appliance, the combination of a casing adapted to support and inclose a set of frames and comprising a stationary member and a movable member hinged on the stationary member, the hinge between said members being arranged between the rear edge of the movable member and the stationary member and members swingably supported by the stationary member for detachable engagement with the movable member to support it in upright position and guides on the movable member for the swingable members.

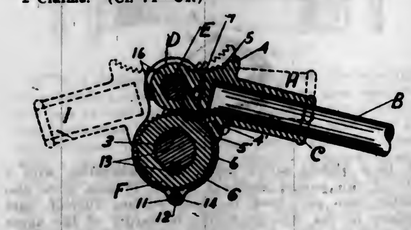


1,393,691. SOUND-BOX FOR TALKING-MACHINES. WILLIAM W. MOYER, Camden, N. J., assignor to Victor Talking Machine Company, a Corporation of New Jersey. Filed Oct. 18, 1917. Serial No. 197,224. 7 Claims. (Cl. 274—35.)



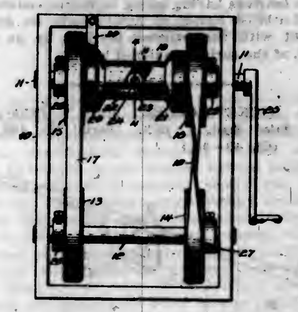
1. In a sound box, the combination of a sound box casing provided with a tubular member rigid therewith, a second rigid tubular member out of contact with said casing and with said first-mentioned tubular member, and adapted to be secured to a sound conveyer, and resilient sound insulating material of substantially tubular form in the space between said tubular members, said resilient material being substantially incased by and between the adjacent surfaces of said rigid tubular members.

1,393,692. RATCHET MECHANISM. FREDERICK A. OST, Minneapolis, Minn. Filed July 15, 1918. Serial No. 244,914. Renewed Mar. 14, 1921. Serial No. 452,232. 2 Claims. (Cl. 74—54.)



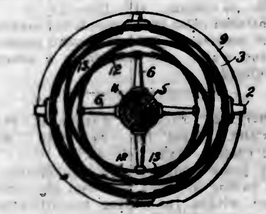
1. In a device of the class described, a drive shaft, a wheel on said shaft having a serrated periphery, side members journaled on said shaft and having recesses, a pivotally swinging handle member interposed between said side members, ratchet actuating balls carried by said handle member adapted to releasably engage said side members in said recesses to produce a ratchet engagement in either direction, and means for holding said side members spaced part, said handle member having angularly located serrated projections adapted to be forced into locking connection with the periphery of said wheel in either direction.

1,393,693. REVERSIBLE CLUTCH. JOSEPH OTTI, Oklahoma, Okla. Filed Apr. 14, 1920. Serial No. 373,939. 2 Claims. (Cl. 74—21.)



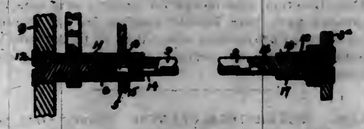
1. In an apparatus of the class described, a driving shaft and a driven shaft, rotating means attached to said driven shaft in spaced relation, means adapted to communicate motion from said driving shaft in one direction to one of said driven shaft rotating means and having a clutch element, means adapted to communicate motion from said driving shaft in the opposite direction to the other of said driven shaft rotating means and having a clutch element, a sleeve slidable and rotative upon said driving shaft and having opposing clutch elements adapted to be alternately engaged with the clutch elements of said driven shaft rotating means, said sleeve having a slot directed obliquely to the longitudinal axis of the sleeve, and a roller carried by said driving shaft and operating in said slot, whereby motion will be transmitted in the same direction to the driven shaft regardless of the direction of motion of the driving shaft.

1,393,694. VEHICLE-WHEEL. ROBERT W. PADDEN, Kansas City, Mo. Filed Sept. 20, 1919. Serial No. 325,137. 8 Claims. (Cl. 152—44.)



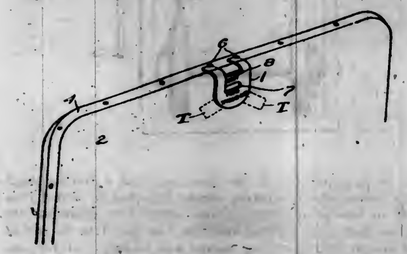
5. In a vehicle wheel, a rim, a hub, spokes extending radially in different parallel planes from the hub, and springs respectively bearing on the spokes and bearing on the rim at points substantially diametrically opposite to the spokes on which the springs bear.

1,393,695. VACUUM-CLEANER BRUSH. GEORGE R. PAULUS, Canton, Ohio, assignor to The United Electric Company, Canton, Ohio, a Corporation of Ohio. Filed Sept. 12, 1918. Serial No. 253,696. 2 Claims. (Cl. 15—60.)



1. In a vacuum cleaner suction shoe, screw plugs in the ends of the shoe, swiveled bearings carried by the plugs, one of the bearings having spring cushioned endwise movement, and a brush having an axial spindle for detachable engagement with the swiveled bearings by an endwise movement of the spring cushioned bearing.

1,393,696. TICKET-HOLDER. JOHN V. PERRIN, Lynn, Mass. Filed Sept. 7, 1920. Serial No. 408,666. 5 Claims. (Cl. 40—11.)



1. A ticket holding attachment of the character described consisting of a single piece of sheet metal bent to provide a panel adapted to fit flatwise against the cushion side of the back of a car seat and an integral laterally projecting flap at the upper end of said panel adapted to be fastened flatwise against the edge of said back, said panel being formed with a ticket receiving hole through the ticket is shoved edgewise into position between the panel and the cushion side of the seat, so that it is yieldingly clamped against the inner side of the panel by said cushion.

1,393,697. COLOR-BASE FOR LEATHER-FINISHES AND METHOD OF MAKING THE SAME. JOHN H. PFINGSTEN, Milwaukee, Wis., assignor to Presto Color Company, Cudahy, Wis. Filed May 28, 1921. Serial No. 473,361. 6 Claims. (Cl. 134—7.)

3. A concentrated color base suitable for making leather finishes, which consists of a finely ground pigment, water soluble oil, and water, and containing a small amount of mercuric chlorid.

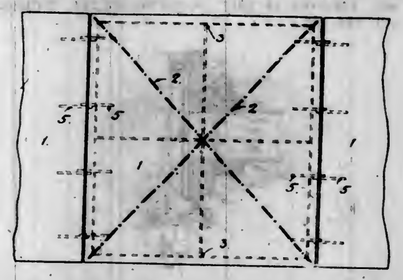
1,393,698. ROTARY PUMP. WALTER J. PIATT, San Leandro, Calif. Filed Dec. 24, 1919. Serial No. 347,060. 2 Claims. (Cl. 103—44.)

1. A rotary pump comprising in combination, a cylindrical casing having an inlet port and an outlet port, a rotor mounted within the casing eccentrically thereto, said rotor having a plurality of radially disposed vanes adapted for outward and inward movement, means whereby the outer ends of the vanes will be retained in continuous engagement with the inner periphery of the casing, a block carried in a pocket formed in the side wall of the casing at a point intermediate the outlet and inlet ports, said block having an inner end surface complemental to the periphery of the rotor and substantially flush with the inner periphery of the casing whereby a continuous seal may be maintained between the inlet and



outlet ports of the casing, a set screw threaded through the outer end wall of the pocket, and a swiveled connection between the set screw and the block.

1,393,699. PAVEMENT FOR ROADS AND STREETS. CHARLES H. PURCELL and LAURENCE I. HEWES, Portland, Oreg. Filed Mar. 1, 1921. Serial No. 448,849. 2 Claims. (Cl. 94—13.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



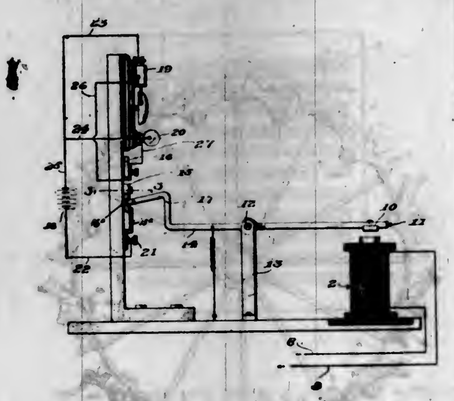
1. The combination of a precast slab of paving material and a connection with an adjacent slab, such connection consisting of overlapping U bars and a rod passing through the loops formed by the U bars and grooves in the slabs substantially as described.

1,393,700. FOLDING SAFETY-RAZOR. ALEXANDER MARIE JOSEPH EUGENE REBOUL, Constantinople, Turkey. Filed Nov. 3, 1913. Serial No. 796,821. 5 Claims. (Cl. 30—12.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat L., 1313.)



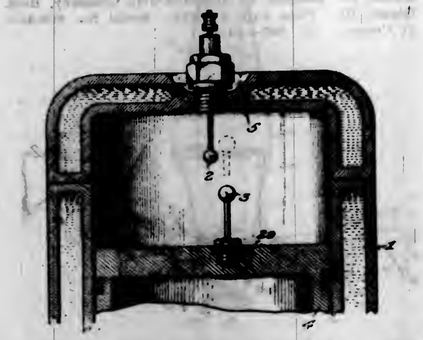
1. In a folding safety razor, the combination with a plate of two handle members hinged to said plate and foldable onto and from the rear surface thereof, said members having lugs projecting forwardly of the upper surface of the plate and adapted, when the members are extended from the plate, to engage over a detachable razor blade on the upper surface of the plate.

1,393,701. SAFETY ELECTRIC SIGNAL FOR RAILWAYS. LEONARDO SANCHEZ, Habana, Cuba, assignor of forty per cent. to Alexandro Angulo and twenty per cent. to Miguel J. Palmer, Habana, Cuba. Filed Nov. 15, 1919. Serial No. 338,207. 5 Claims. (Cl. 200—87.)



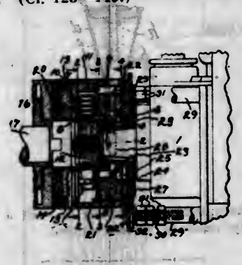
1. In a safety electric signal for railways, a circuit closing device having a vertical slidable contact forming a weight to hold the circuit closing device normally open, and an operating lever connected at one end with the circuit closing device and provided at the other end with an armature adapted to be attracted by an electromagnet to operate the circuit closing device.

1,393,702. IGNITION DEVICE FOR INTERNAL-COMBUSTION ENGINES. LEONARDO SANCHEZ, Habana, Cuba, assignor of forty per cent. to Alexandro Angulo and twenty per cent. to Miguel J. Palmer, Habana, Cuba. Filed Nov. 18, 1919. Serial No. 338,907. 2 Claims. (Cl. 123—162.)



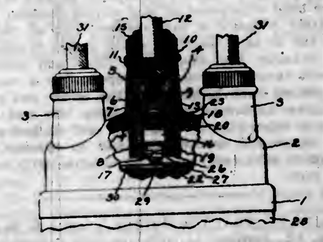
1. In a device of the class described, the combination of a cylinder and a piston, of a spark plug mounted in the end of the cylinders and provided with a relatively long projecting stem having a spherical head, and a piston terminal mounted on the piston and also provided with a relatively long stem having a spherical head carried into and out of sparking position with relation to the terminal of the spark plug by the reciprocation of the piston, said heads being of different diameters and presenting continuous convex faces to each other throughout their entire area and being carried past each other by the said reciprocation of the piston.

1,393,703. IMPULSE-COUPLING. WOLFGANG E. SCHWARZMANN, Longmeadow, and CHARLES F. TORRE, Springfield, Mass., assignors to American Bosch Magneto Corporation, Springfield, Mass., a Corporation of New York. Filed Dec. 8, 1919. Serial No. 343,297. 25 Claims. (Cl. 123—149.)



1. In an impulse coupling; a rotatable driving member; a rotatable driven member; an impelling spring arranged to be stressed upon angular displacement of said members; centrifugally-responsive locking mechanism adapted to lock the driven member against rotation while the driving member is rotating slowly and to be inoperative at higher speed; and releasing mechanism for releasing the locking mechanism, when locked, at an advanced position of the driving member relatively to the driven member; the centrifugally-responsive locking mechanism consisting of two coöperative elements which, at low speed in one direction of rotation, are relatively positioned to engage each other in one angular position of the driven member and which, at low speed in the reverse direction of rotation, are relatively positioned to engage each other at another angular position of the driven member.

1,393,704. ELECTRIC BRUSH. WOLFGANG E. SCHWARZMANN, Longmeadow, Mass., assignor to American Bosch Magneto Corporation, Springfield, Mass., a Corporation of New York. Filed Feb. 14, 1921. Serial No. 444,715. 9 Claims. (Cl. 171—324.)



2. A contact brush device comprising a guide member having a recess, a brush holder slidable in said recess, a brush carried by said holder, resilient means for moving said holder outwardly, and a detachable means cooperative with said holder to limit the outward movement thereof, whereby upon removing said detachable means, said holder and brush may be removed from said recess of said member.

1,393,705. UNWINDING DEVICE. WILLIAM ERNEST SEED, Preston, England. Filed Jan. 23, 1918. Serial No. 213,433. 8 Claims. (Cl. 242—128.)

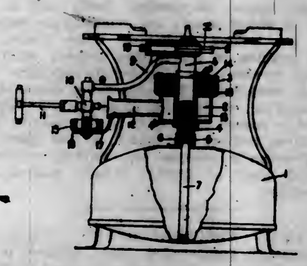
1. In winding, reeling and readying spindles or skewers and shuttle tongues, a removable cap for the outer end

of such spindle, having its inner end adapted to extend slightly within the nose of a cop on the spindle and to



be held on the spindle by friction in such a way that it can be readily removed when required.

1,393,706. OIL-STOVE. JAMES SHANNON, Canonbury, London, England. Filed Aug. 11, 1921. Serial No. 491,558. 12 Claims. (Cl. 158—82.)



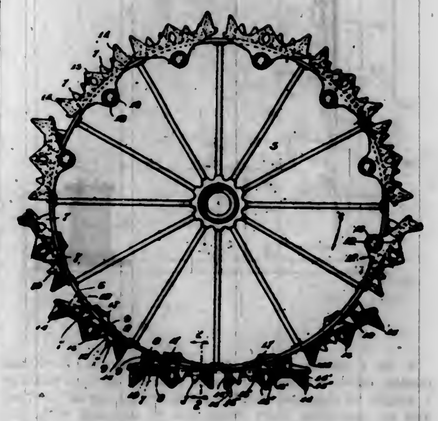
1. In an oil vapor stove the combination of an oil reservoir, a mixing chamber superposed on said reservoir, a burner head superposed on said mixing chamber, means for creating pressure in said reservoir, an oil feed pipe leading out of said reservoir which passes through said mixing chamber and said burner head and terminates above said burner head so as to operate as a vaporizer, a star shaped heat collector on the upper end of said oil feed pipe, an induction tube leading into said mixing chamber, a vapor pipe leading from said oil feed pipe at a point above the burner head, and an injector nozzle connected to said vapor pipe and coacting with said induction tube.

1,393,707. TRACTOR-WHEEL. LOUIS E. SLAUSON, Moline, Ill., assignor to Grid-Iron-Grip Company, Rock Island, Ill. Filed Oct. 16, 1918. Serial No. 258,341. 4 Claims. (Cl. 305—13.)



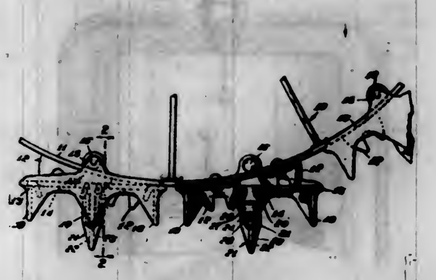
1. A traction shoe for attachment to the rim of a wheel and comprising a pair of parallel plates having lateral flanges, parallel transverse angle ribs spaced apart and connected to said plates on the bottom of said flanges, and means for loosely connecting the plates to the wheel rim.

1,393,708. TRACTION-WHEEL. LOUIS E. SLAUSON, Rock Island, Ill., assignor to Grid-Iron-Grip Company, Rock Island, Ill. Filed June 12, 1919. Serial No. 303,841. 12 Claims. (Cl. 305—13.)



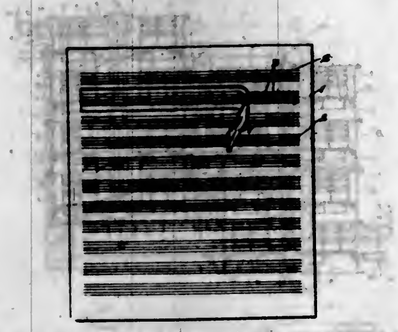
1. A traction shoe for attachment to the rim of a wheel and having transverse ground engaging bars at the ends thereof, said bars having recessed outwardly flared outer edges.

1,393,709. TRACTION-SHOE. LOUIS E. SLAUSON, Rock Island, Ill., assignor to Grid-Iron-Grip Company, Rock Island, Ill. Filed July 8, 1919. Serial No. 308,430. 21 Claims. (Cl. 305—13.)



1. A substantially rectangular traction shoe for attachment to the rim of a wheel and having a plurality of ground engaging members comprising a tooth at each corner of the shoe, said teeth being of approximately the same depth, and a tooth on each side of the shoe midway between the adjacent end teeth and of greater depth than the end teeth.

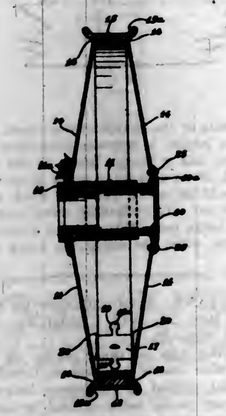
1,393,710. STRIP FOR CORRECTING MUSIC. JOHN A. SPENCER, Los Angeles, Calif. Filed Sept. 20, 1920. Serial No. 413,690. 4 Claims. (Cl. 283—47.)



2. A correcting strip having a music staff upon one side and a gummed surface upon the other side.

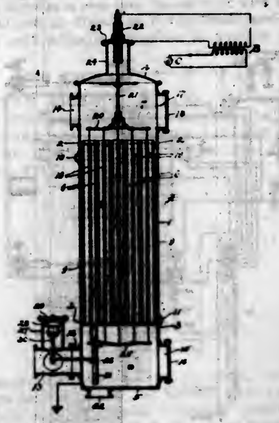
4. A book having stubs and strips connected to said stubs along perforated lines, said strips having music staffs thereon.

1,393,711. WHEEL. CHARLES E. STAILEY and EMMER H. BLAKER, Portsmouth, Ohio. Filed Nov. 26, 1919. Serial No. 340,889. 2 Claims. (Cl. 301—63.)



1. A wheel comprising a hub, a pair of laterally spaced disks through which the hub extends, and a rim encircling the periphery of the disks and having side shoulders engageable by the latter, said rim having a gap and a section removably mounted in said gap, the aforesaid disks having peripheral notches in which bottom portions of said section seat, and said section having projecting wings at its ends, and the rim having recesses in its inner surface at the ends of the gap in which the side wings seat.

1,393,712. PROCESS AND MEANS FOR REMOVING SUSPENDED MATTER FROM GAS. FRANK W. SPENCER and WILLIAM C. WOODLAND, Detroit, Mich. Filed Nov. 4, 1918. Serial No. 261,122. 12 Claims. (Cl. 183—114.)



12. An apparatus for removing tar from gas, comprising a tubular collecting electrode, a discharge electrode, and means surrounding the collecting electrode for applying heat thereto.

1,393,713. METHOD OF REMOVING AND RECOVERING SOLVENT FROM NITROCELLULOSE EXPLOSIVES. FRED W. STETSON and JESSE L. ESSEX, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Jan. 30, 1920. Serial No. 355,222. 9 Claims. (Cl. 52—20.)

4. The method of separately removing and recovering from nitrocellulose powder the ethyl ether and the ethyl alcohol of the alcohol-ether solvent, which method includes, as two distinctly defined and separate steps, the initial washing step of washing the powder with ethyl alcohol of a strength to remove ether without substantial removal of alcohol, and, as the next washing step, the washing of the powder with water to remove alcohol substantially without removal of ether.

1,393,714. PROCESS OF PRODUCING PICRIC ACID. CHARLES M. A. STINE and JOHN LAWRENCE GILSON, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 25, 1919. Serial No. 333,361. 13 Claims. (Cl. 23—24.)

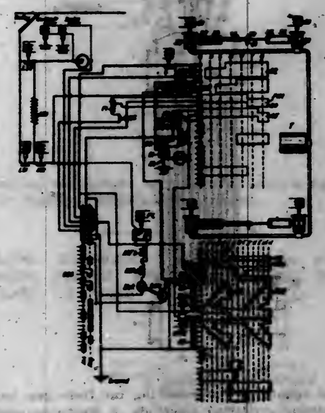
1. The process of producing picric acid which comprises suspending dinitrophenol in concentrated sulfuric acid, gradually adding thereto a mixture of nitric and sulfuric acids while maintaining the temperature between 160 and 200° F., heating the resulting reaction mixture at a temperature of 200 to 235° F. for about an hour, and then cooling said reaction mixture.

9. In the process of producing picric acid from dinitrophenol, the step which comprises preparing a suspension of 1 part of dinitrophenol in from about 1½ to 3 parts of concentrated sulfuric acid.

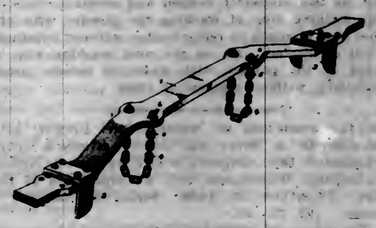
1,393,715. SYSTEM OF CONTROL. NORMAN W. STOBER and RUDOLF E. HELLMUND, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 10, 1916. Serial No. 77,428. 7 Claims. (Cl. 172—179.)

1. In a system of control, the combination with a dynamo-electric machine adapted for regenerative break-

ing, of means for controlling said machine to regulate the braking effort thereof, and relay means governing the operation of said controlling means adapted to be connected to respond to electrical quantities of the system which are factors of the machine torque, said controlling means being arranged to affect the circuit connections of said relay means.



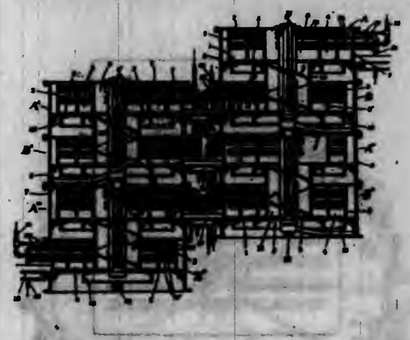
1,393,716. AUXILIARY ARCH-BAR. Peter Swanson, Ely, Minn. Filed June 9, 1921. Serial No. 476,133. 3 Claims. (Cl. 105—204.)



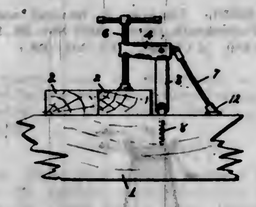
1. An auxiliary arch bar of the character described, comprising a main body portion to fit on top of a standard arch bar, means for holding it in position on a truck and depending hold fast means for engagement with portions of the truck beneath the bar for the purpose described.

1,393,717. APPARATUS FOR THE PROGRESSIVE HEATING OR COOLING OF MILK-BOTTLES AND OTHER CONTAINERS. Godfrey M. S. Tait, Washington, D. C. Filed Feb. 14, 1917. Serial No. 148,643. 5 Claims. (Cl. 126—272.)

1. Apparatus such as described comprising a plurality of superposed rotary tables, a spiral guide above each such table adapted to receive containers and during the motion thereof on such tables to guide such containers toward or from the center as the case may be, and means for passing such containers from the one table to the other, comprising means for regulating the speed of passage of the containers from the one table to the other.



1,393,718. CLAMP. James L. Taylor, Poughkeepsie, N. Y.; Emma A. Taylor and Bessie A. Matthews executrices of said James L. Taylor, deceased. Filed June 21, 1918. Serial No. 241,146. 7 Claims. (Cl. 144—298.)

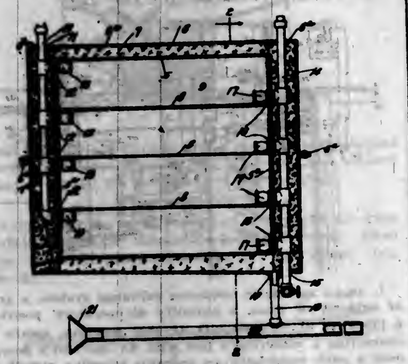


1. In the clamp of the character described, the combination with a bar having a laterally projecting head with a clamping screw, and a hinged brace at the opposite side from said head, of an anchoring screw hingedly connected to the end of said bar away from said head, and coöperating stop means on said anchoring screw and bar permitting a limited hinge movement and yet holding the bar in working position when the anchoring screw is embedded.

1,393,719. OIL-TANK. Arthur Ernest De Save, Mobile, Ala. Filed Mar. 22, 1918. Serial No. 223,962. 10 Claims. (Cl. 220—85.)

1. In a gasolene tank, an inner casing, an outer casing inclosing the inner casing and spaced therefrom, an absorbent material packed in the space between the two casings, the inner casing being divided by horizontal and vertical partitions into a plurality of compartments, inlets, branches connecting the inlets with the compartments, check valves in the branches, outlets, branches connecting the compartments with the outlets, check valves in the last mentioned branches, an outlet at the bottom of the outer casing, and a longitudinally extending tube without the outer casing and open at both ends the last mentioned outlet communicating with the tube intermediate its ends.

7. In a tank, an inner casing, an outer casing inclosing the inner casing and spaced therefrom, the inner casing being divided into a plurality of compartments, an absorbent material packed between the casings, a vertical inlet in the space between the inner and outer casing and disposed in the absorbent material, branches connecting the inlet with each of the compartments, a vertical outlet in the space between the inner and outer casing and disposed



in the absorbent material, branches connecting the compartments with the outlet, check valves in the branches, and an outlet at the bottom of the outer casing.

1,393,720. HYPODERMIC SYRINGE. Harry Lomas and James Mortimer, London, England. Filed Aug. 22, 1917. Serial No. 187,597. 3 Claims. (Cl. 128—234.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



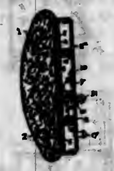
1. In a hypodermic syringe comprising in combination a barrel, a delivery nozzle, a piston, a piston-rod secured to said piston and having a groove running alternately lengthwise and transversely at its periphery and a collar loosely fitting said piston rod and having a pin adapted to project into and engage said groove, substantially as described.

1,393,721. BELT-BUCKLE. Lawrence F. Otten, Newport, Ky. Filed Mar. 14, 1921. Serial No. 451,976. 3 Claims. (Cl. 24—191.)



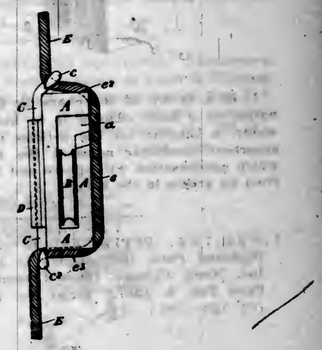
1. In a belt buckle, a plate, a channel in said plate, a belt adapted to pass through said channel, upturned ears on said plate, a pivot on said ears, a serrated cam having movement about said pivot for engaging said belt, an actuating member separate from the gripping member having movement about said pivot adapted to selectively and positively force said cam into engagement with one portion of the said belt or disengage it therefrom, and means for attaching said actuating member to another portion of said belt.

1,393,722. SURGICAL TRUSS. Alfred Matthew Scarff, Croydon, England. Filed Nov. 14, 1916. Serial No. 131,250. 5 Claims. (Cl. 128—117.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A surgical truss embodying therein a truss pad, having a non-flexible base, a non-flexible lever plate, a band attached to said lever plate, a member constantly transmitting substantially uniform pressure from said lever plate to said base, said member having a rigid connection with one of said parts and a universal joint connection with the other permitting oscillatory movement of said base and said plate with relation to each other, cushions between said base and said plate arranged about said member, and means limiting the extent of said oscillatory movement.

1,393,723. PULLEY. Augustus W. L. Scheamuly, Sutton, England. Filed June 11, 1920. Serial No. 388,311. 5 Claims. (Cl. 254—194.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A pulley block having associated therewith rope-engaging means adapted to engage the opposite ends of a supporting-rope bight, within which one side and at least a portion of the opposite ends of the block are embraced.

1,393,724. ROAD-MACHINE. Oscar M. Lackie, Duluth, Minn. Filed May 17, 1920. Serial No. 382,162. 3 Claims. (Cl. 37—42.)

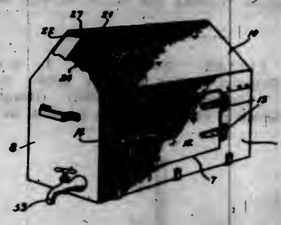
1. In a device of the character described, pilot means, a rear supporting means, a beam connecting the two,

and a plow flexibly connected to the beam and bodily movable in relation to the beam laterally and axially



whereby the snow or other material may be shifted to one side or the other of the roadway or divided centrally and a part directed to each side.

1,393,725. STEAMER. MAX LEVIN, Chicago, Ill. Filed Feb. 21, 1920. Serial No. 360,314. 7 Claims. (Cl. 228—26.)



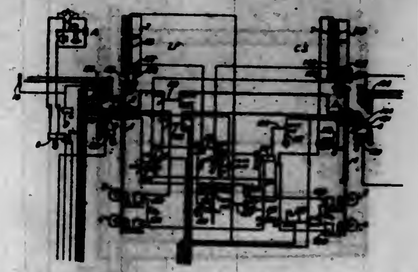
1. In a device of the character described, the combination of a body adapted to be heated and to contain water, a support for the articles in the body and an absorbent conductor adjacent the top of the body to which condensation will adhere and for carrying it away from an article in the body.

1,393,726. PUPPET-VALVE. CARL A. PFANSTIEHL, Highland Park, Ill., assignor to Pfanstiehl Company, Inc., North Chicago, Ill., a Corporation of New York. Filed Feb. 8, 1917. Serial No. 147,895. 2 Claims. (Cl. 123—188.)



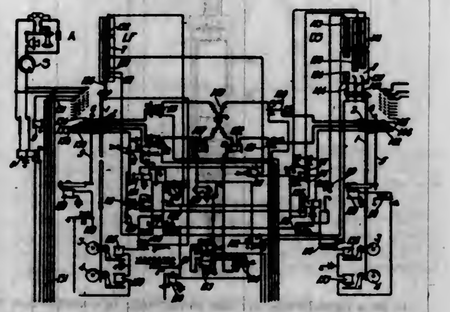
1. A valve for internal combustion engines comprising a hollow steel stem, a head fused thereto, the mixed metal of the head and stem extending into the hollow portion of the stem and reinforcing the latter at and near its union with the head.

1,393,727. CALL-DISTRIBUTING SYSTEM. SAMUEL B. WILLIAMS, Jr., Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 28, 1919. Serial No. 341,167. 14 Claims. (Cl. 179—27.)



1. In an automatic telephone exchange system, a group of subscribers' lines, a plurality of operators' positions, a plurality of cord circuits at each position, means for connecting a subscriber's line with an operator's position over a path comprising an operator selecting circuit terminating in means for selecting an idle operator's position, and selector switches for establishing a connection between a calling line and said operator selecting circuit, and switching means for subsequently connecting the terminals of said calling line with a cord circuit of said selected position independent of said path.

1,393,728. TELEPHONE-EXCHANGE SYSTEM. SAMUEL B. WILLIAMS, Jr., Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 8, 1919. Serial No. 343,284. 15 Claims. (Cl. 179—18.)



1. In a telephone system, a calling line, selector switches for extending said line, controlling mechanism for controlling the operation of said selector switches, a quick acting finder switch responsive to the initiation of a call on said line for associating said mechanism therewith, means for subsequently associating said mechanism with said line, an impulse circuit established upon the initial association of said mechanism with said line, a second impulse circuit established upon the subsequent association of said mechanism with said line, means controlled by the calling subscriber for sending impulses over both of said circuits, and means responsive to such impulses for setting said controlling mechanism.

1,393,729. DISK WHEEL FOR AUTOMOBILES. JOSEPH THOMAS PICKERING, New Brighton, England. Filed Feb. 14, 1921. Serial No. 444,963. 7 Claims. (Cl. 301—63.)

1. A disk wheel comprising a hub portion, an inner disk secured thereto, an outer disk, a hub cap adapted to secure the outer disk to the hub portion, a felly formed

in annular halves, one half secured to each disk and adapted to fit between the disks when in assembled relation, the outer peripheral portion of the disks extending



beyond the felly and formed into a clencher bead adapted to receive a tire, and a rib carried by the felly and adapted to project beyond the peripheral line of the disks.

1,393,730. SHOE AND PROCESS OF MAKING THE SAME. JOHN F. TRENAM, Brockton, Mass. Filed Apr. 12, 1920. Serial No. 373,078. 19 Claims. (Cl. 36—22.)



1. A welt shoe having an innersole provided with a continuous rib extending around the shank and the forepart from heel to heel, and an upper and a welt stitched to said rib, said innersole being split at the shank to provide two relatively movable integrally connected layers or members.

1,393,731. STEERING-WHEEL LOCK. JOHN NELSON, Chicago, Ill. Filed Apr. 2, 1920. Serial No. 370,731. 12 Claims. (Cl. 70—129.)

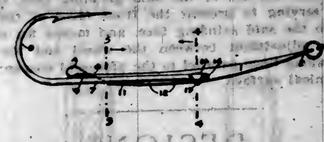


12. The combination of a steering wheel having a tubular hub, a steering port having a collar fitting in said hub, a transverse bolt mounted in said hub and registering with a circumferential groove in the collar, said bolt having a bit adapted to register with longitudinal slots in the collar for operatively connecting the hub to the collar.

REISSUES.

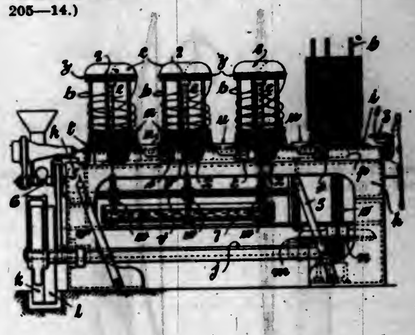
15,204. ARTIFICIAL FISH-BAIT. FREDERICK DUBROW, Sausalito, Calif. Filed Apr. 14, 1920. Serial No. 373,926. Original No. 1,334,022, dated Mar. 16, 1920, Serial No. 192,054, filed Sept. 19, 1917. 1 Claim. (Cl. 43—45.)

In a device of the character described, the combination of a concavo-convex elongated plate having a tapering front end and a rear portion tapering to the rear and then extended in width sharply on both sides, each extension having a spiral form to form a propeller, said plate having an elongated slot extending centrally of its narrow portion and grooved in its outer surface to the rear of said slot and having a longitudinal series of holes therethrough in front of said last-named groove, a hook having a shank in both of said grooves and extending through said slot and having a loop adjacent to one of said holes, and a



screw extending through said loop and hole and having a head pressed against said loop.

15,205. METHOD AND APPARATUS FOR DRAWING WIRE. ROBERT DUNCAN CONNOR, Withington, Manchester, England. Filed Feb. 3, 1921. Serial No. 442,314. Original No. 1,198,111, dated Sept. 12, 1916, Serial No. 57,305, filed Oct. 22, 1915. 13 Claims. (Cl. 205—14.)



6. In apparatus for drawing wire by the continuous method, a series of dies, a series of rotating blocks, means permitting the delivery of wire from each of said blocks by the uncoiling of the convolutions thereon, and means on each block for maintaining a slight tension upon the wire carried thereby.

15,206. CUTTER-GRINDING MACHINE. FRIEDERICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed May 3, 1921. Serial No. 466,594. Original No. 1,338,320, dated Apr. 27, 1920, Serial No. 253,871, filed Sept. 13, 1918. 39 Claims. (Cl. 51—225.)

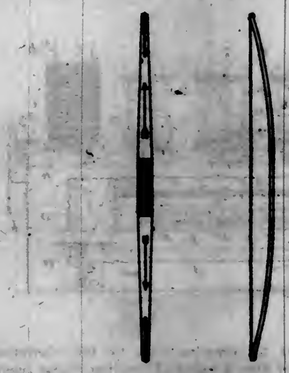


1. The combination in a cutter grinding machine, of a grinding wheel rotatable about a horizontal axis and hav-

ing a convex conical grinding face, a cutter holder having its axis intersecting and perpendicular to an element of the conical surface of the said grinding face, the said holder serving to present the front faces of the cutter teeth to the said grinding face, and means for effecting relative adjustment between the wheel and the cutter holder along lines parallel to the aforesaid element of the said conical surface.

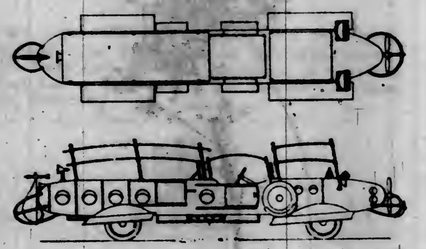
DESIGNS.

59,317. TOY BOW. ADRIAN D. ADRIANCE, Brooklyn, N. Y. Filed Apr. 30, 1921. Serial No. 459,162. Term of patent 7 years.



The ornamental design for a toy bow as shown.

59,318. AUTOMOBILE-BODY. JOHN E. ALLEN, Big Creek, Calif. Filed May 17, 1921. Serial No. 470,491. Term of patent 7 years.



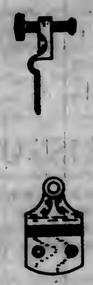
The ornamental design for an automobile body, substantially as shown.

59,319. FIRE-EXTINGUISHER. FRANK W. ANDREWS, Wapakoneta, Ohio. Filed Oct. 13, 1919. Serial No. 330,497. Term of patent 14 years.



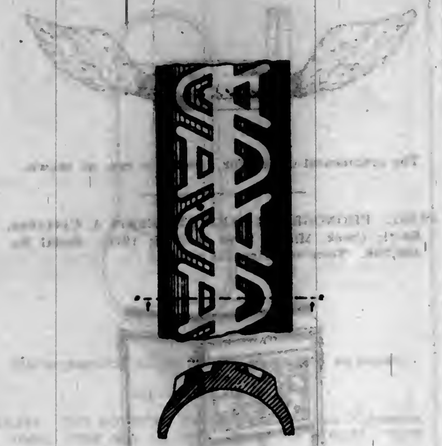
The ornamental design for a fire extinguisher, as shown.

59,320. AUTOMOBILE WINDOW-BRACKET. CHARLES F. ATTWOOD, Grand Rapids, Mich. Filed May 2, 1921. Serial No. 466,240. Term of patent 14 years.



The ornamental design for an automobile window bracket, as shown.

59,321. RUBBER-TIRE CASING. CAROL R. BAKER, Akron, Ohio, assignor to The Akron Universal Tire and Rubber Company, Medina, Ohio. Filed Apr. 9, 1921. Serial No. 460,077. Term of patent 7 years.



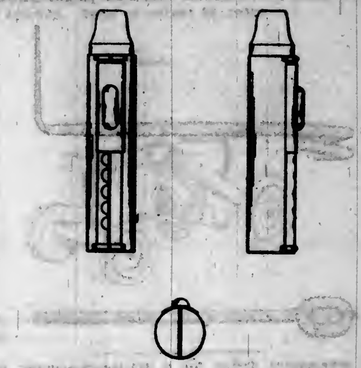
The ornamental design for a rubber tire casing, as shown.

59,322. RUBBER-TIRE CASING. CAROL R. BAKER, Akron, Ohio, assignor to The Akron Universal Tire and Rubber Company, Medina, Ohio. Filed Apr. 9, 1921. Serial No. 460,078. Term of patent 7 years.



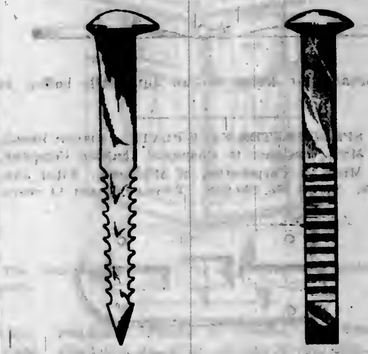
The ornamental design for a rubber tire casing, as shown.

59,323. TOY WHISTLE. JEROME BARTOLOWSKY, Oakland, Calif. Filed Apr. 25, 1921. Serial No. 464,453. Term of patent 14 years.



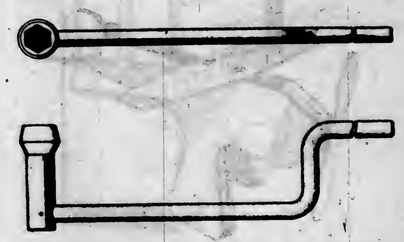
The ornamental design for a toy whistle, as shown.

59,324. SPIKE. FREDERICK C. BAUER, Sr., Camden, N. J. Filed July 9, 1920. Serial No. 395,164. Term of patent 14 years.



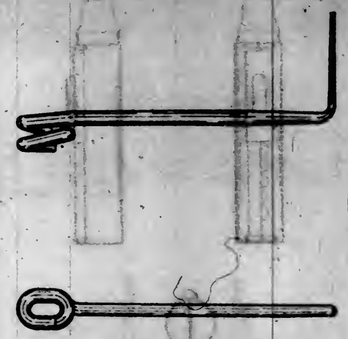
The ornamental design for a spike as shown.

59,325. TOOL. WARREN S. BELLOWS, Worcester, Mass. Filed Sept. 16, 1919. Serial No. 324,256. Term of patent 14 years.



The ornamental design for a tool, as shown.

59,326. DRAIN-COCK-OPENING TOOL. John Bonnow and Edwin Mason, Union, Iowa, assignors of one-third to William R. Stanfield, Union, Iowa. Filed Mar. 10, 1921. Serial No. 451,304. Term of patent 14 years.



The ornamental design for a drain-cock-opening tool, as shown.

59,327. AUTOMOBILE-BUFFER. Donald L. Benton, Adrian, Mich., assignor to American Chain Company, Inc., a Corporation of New York. Filed May 3, 1921. Serial No. 466,624. Term of patent 14 years.



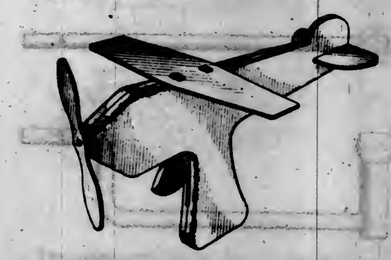
The ornamental design for an automobile buffer, as shown.

59,328. SPEEDOMETER FACE-PLATE. Joseph Berge, Flint, Mich., assignor to Champion Ignition Company, Flint, Mich., a Corporation of Michigan. Filed Jan. 6, 1919. Serial No. 269,948. Term of patent 14 years.



The ornamental design for a speedometer face-plate, as shown.

59,329. TOY. John W. Carlson, Chicago, Ill., assignor to Chicago Novelty Mfg. Co., a Partnership composed of John W. Carlson, David Seaholm, and Conrad Johnson. Filed Apr. 20, 1921. Serial No. 463,086. Term of patent 7 years.



The ornamental design for a toy as shown.

59,330. RADIATOR-CAP. James P. Cavanaugh and Samuel C. Pearis, Denver, Colo., assignors of one-third to Isaac S. Dunwoody, Denver, Colo. Filed June 16, 1921. Serial No. 478,176. Term of patent 3½ years.



The ornamental design for a radiator cap, as shown.

59,331. PHONOGRAPH-CABINET. Edwin A. Caviness, Battle Creek, Mich. Filed Dec. 14, 1920. Serial No. 430,768. Term of patent 3½ years.



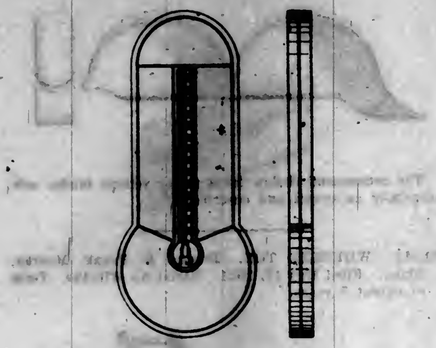
The ornamental design for a phonograph cabinet as shown.

59,332. PHONOGRAPH-CABINET. Edwin A. Caviness, Battle Creek, Mich. Filed Dec. 14, 1920. Serial No. 430,769. Term of patent 3½ years.



The ornamental design for a phonograph cabinet as shown.

59,335. THERMOMETER. Glenn S. Clark, Kalamazoo, and Plummer B. Sutton, East Lansing, Mich.; said Clark assignor to said Sutton. Filed Apr. 16, 1921. Serial No. 462,034. Term of patent 14 years.



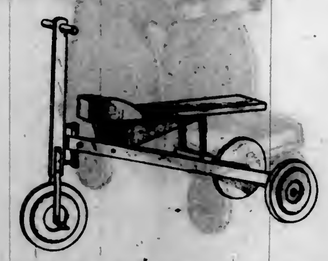
The ornamental design for a thermometer, as shown.

59,334. TOY ROCKER. Clarence J. Clouser, Columbus, Ohio. Filed May 19, 1921. Serial No. 470,910. Term of patent 14 years.



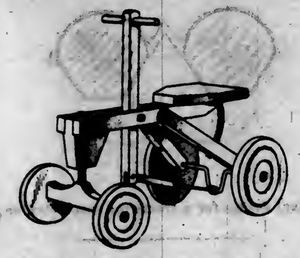
The ornamental design for a toy rocker, as shown.

59,335. CHILD'S VELOCIPEDE. William M. Cobb, Zion, Ill., assignor to Wilbur Glenn Voliva, Zion, Ill., doing business under the firm-name and style of Zion Institutions and Industries. Filed May 3, 1921. Serial No. 466,619. Term of patent 3½ years.



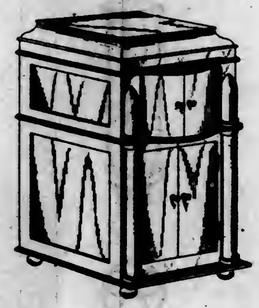
The ornamental design for a child's velocipede, as shown.

59,336. CHILD'S VELOCIPEDE. William M. Cobb, Zion, Ill., assignor to Wilbur Glenn Voliva, Zion, Ill., doing business under the firm-name and style of Zion Institutions and Industries. Filed May 3, 1921. Serial No. 466,620. Term of patent 3½ years.



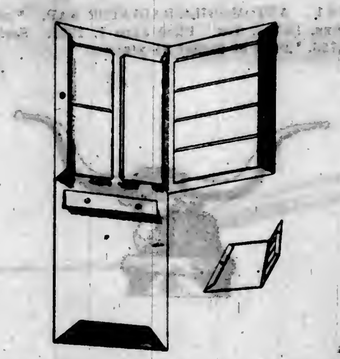
The ornamental design for a child's velocipede, as shown.

59,337. PHONOGRAPH-CABINET. Edward R. Conley, Springville, N. Y. Filed Feb. 19, 1921. Serial No. 446,523. Term of patent 14 years.



The ornamental design for a phonograph cabinet, as shown.

59,338. FOLDER. Frank J. Coerts, San Francisco, Calif. Filed Oct. 18, 1920. Serial No. 417,855. Term of patent 7 years.



The ornamental design for a folder as shown.

59,339. FRAME FOR SPECTACLES. ORVILLE U. DEENA, Wort Collins, Colo. Filed Apr. 26, 1918. Serial No. 231,069. Term of patent 14 years.



The original design for a frame for spectacles, as shown.

59,340. WHISTLE. EDWARD S. DE TAMBLE, Racine, Wis., assignor to Racine Accessories Manufacturing Co., Racine, Wis., a Corporation of Wisconsin. Filed Jan. 20, 1921. Serial No. 438,789. Term of patent 7 years.



The ornamental design for a whistle, as shown.

59,341. AUTOMOBILE-RADIATOR CAP. VICTOR J. DUPRAS, Dallas, Tex. Filed June 7, 1921. Serial No. 475,723. Term of patent 3½ years.



The ornamental design for an automobile radiator cap, as shown.

59,342. MOTOR-VEHICLE FENDER. ROLLIN B. FAGNEL, Oakland, Calif. Filed May 26, 1921. Serial No. 472,908. Term of patent 14 years.



The ornamental design for a motor vehicle fender substantially as shown and described.

59,343. WHEELED TOY. EUDORA B. FERRY, Murray, Idaho. Filed May 17, 1921. Serial No. 470,484. Term of patent 7 years.



The ornamental design for a wheeled toy substantially as shown.

59,344. WHEELED TOY. EUDORA B. FERRY, Murray, Idaho. Filed May 17, 1921. Serial No. 470,485. Term of patent 7 years.



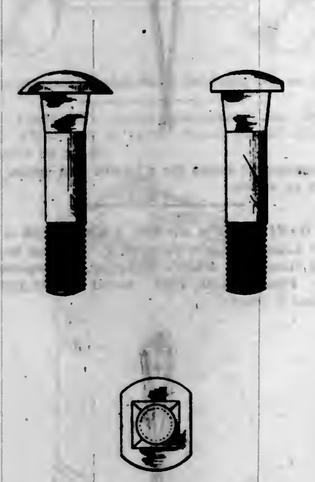
The ornamental design for a wheeled toy substantially as shown.

59,345. SAFETY-RAZOR BLADE. HENRY J. GABELMAN, New York, N. Y. Filed Apr. 30, 1921. Serial No. 465,840. Term of patent 14 years.



The ornamental design for a safety razor blade, substantially as shown.

59,346. BOLT. HELON V. GILL, Spring Valley, Minn. Filed Dec. 30, 1920. Serial No. 434,162. Term of patent 14 years.



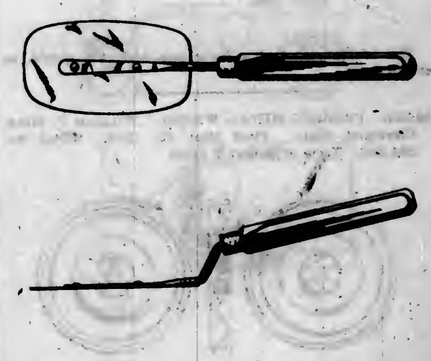
The ornamental design for a bolt, as shown.

59,347. HANDLE FOR A SPOON, FORK, OR SIMILAR ARTICLE. PETER J. GOUMOU, Sag Harbor, N. Y., assignor to Joseph Fabys & Company, New York, N. Y., a Corporation of New York. Filed Feb. 12, 1921. Serial No. 444,604. Term of patent 7 years.



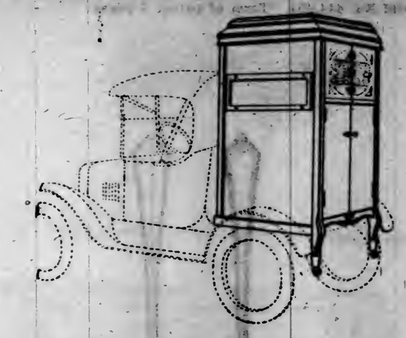
The ornamental design for a handle for a spoon, fork or similar article, as shown.

59,348. CLEANING-TOOL. JOSEPH H. HEBERT, Columbus, Ohio. Filed June 7, 1921. Serial No. 475,727. Term of patent 7 years.



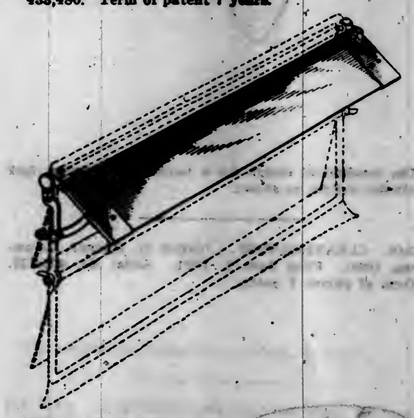
The ornamental design for a cleaning tool, as shown.

59,349. AUTOMOBILE-TRUCK BODY. Charles Hellmanzoner, Chicago, Ill. Filed Feb. 2, 1921. Serial No. 442,896. Term of patent 7 years.



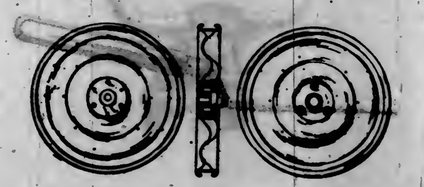
The ornamental design for an automobile truck body as shown.

59,350. SUN AND RAIN SHIELD. Ernest C. Hillman, Los Angeles, Calif. Filed Dec. 27, 1920. Serial No. 433,480. Term of patent 7 years.



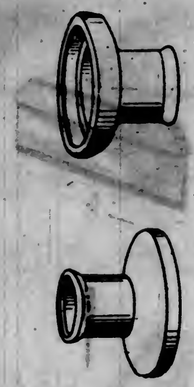
The ornamental design for a sun and rain shield, as shown.

59,351. PRESSED-METAL WHEEL. William C. Hinn, Cleveland, Ohio. Filed Mar. 22, 1919. Serial No. 284,506. Term of patent 7 years.



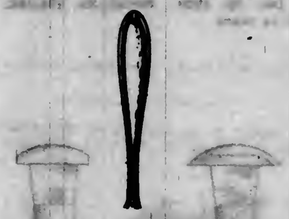
The design for a pressed metal wheel, substantially as shown.

59,352. HUB-SHELL FOR WIRE WHEELS. Hunter S. Heeny, Jr., Buffalo, N. Y., assignor to Wire Wheel Corporation of America, Buffalo, N. Y., a Corporation of New York. Filed Jan. 31, 1919. Serial No. 274,877. Term of patent 14 years.



The ornamental design for a hub shell for wire wheels, substantially as shown.

59,353. HANDLE OF A SPOON, A KNIFE, OR A FORK. Sidney James, Niagara Falls, N. Y., assignor to Simeon L. and George H. Rogers Company, a Corporation of Maine. Filed June 28, 1921. Serial No. 481,112. Term of patent 7 years.



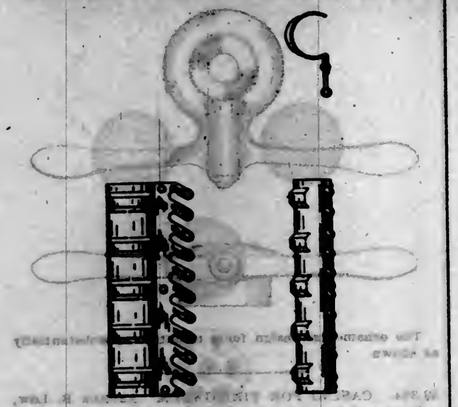
The ornamental design for a handle of a spoon, a knife or a fork as shown.

59,354. HANDLE OF A SPOON, A KNIFE, OR A FORK. Sidney James, Niagara Falls, N. Y., assignor to Simeon L. and George H. Rogers Company, a Corporation of Maine. Filed June 28, 1921. Serial No. 481,113. Term of patent 7 years.



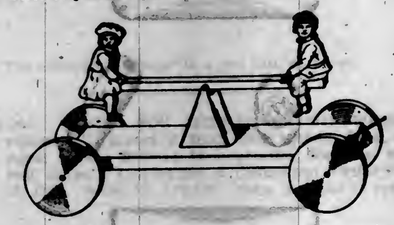
The ornamental design for a handle of a spoon, a knife or a fork as shown.

59,355. BLIND-HOLDING WINDSHIELD-CLIP. Hiram A. Kastner, Galt, Ontario, Canada. Filed Sept. 13, 1920. Serial No. 410,019. Term of patent 7 years.



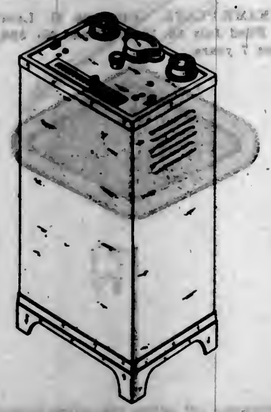
The ornamental design for a blind-holding windshield clip, as shown.

59,356. TEETERING TOY. Gustaf J. Kallander, Seattle, Wash. Filed June 9, 1921. Serial No. 476,358. Term of patent 7 years.



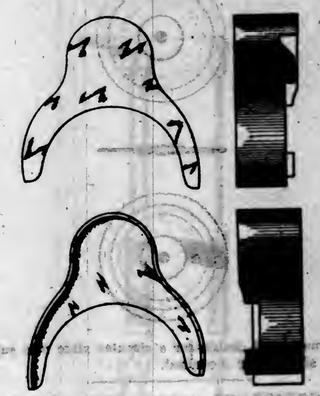
The ornamental design for a teetering toy as shown.

59,357. CABINET. Arion Kalenborn, San Francisco, Calif. Filed May 4, 1921. Serial No. 466,701. Term of patent 3½ years.



The ornamental design for a cabinet, as shown.

59,358. GEAR-COVER. Gen. Knerr, Philadelphia, Pa. Filed June 1, 1921. Serial No. 474,373. Term of patent 7 years.

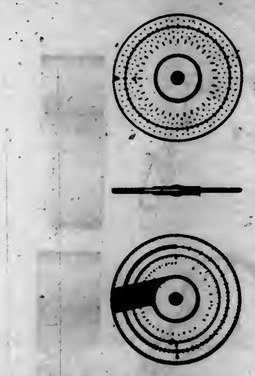


The ornamental design for a gear cover, as shown.

59,359. AUTOMOBILE. James Masakuki Kawahami, Stockton, Calif. Filed May 21, 1921. Serial No. 471,500. Term of patent 14 years.

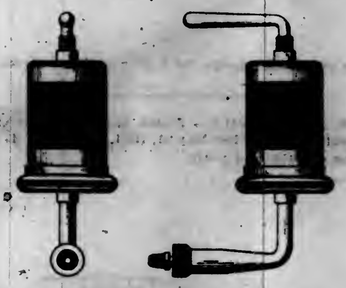
The ornamental design for an automobile, as shown.

59,360. CIRCULAR SLIDE-RULE. JOSEPH F. KELSEY, New York, and FRANCIS J. RANDS, Woodhaven, N. Y., assignors to Keller Mechanical Engraving Co., Brooklyn, N. Y., a Corporation of New York. Filed July 1, 1920. Serial No. 398,416. Term of patent 14 years.



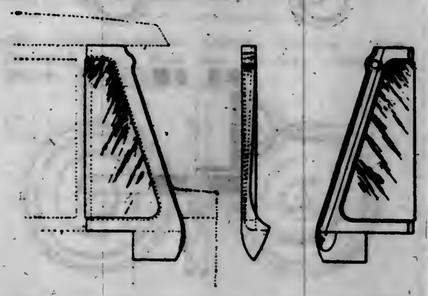
The ornamental design for a circular slide rule substantially as shown and described.

59,361. GREASE-GUN. ALBERT A. KLEMS, Detroit, Mich. Filed Oct. 11, 1920. Serial No. 416,329. Term of patent 7 years.



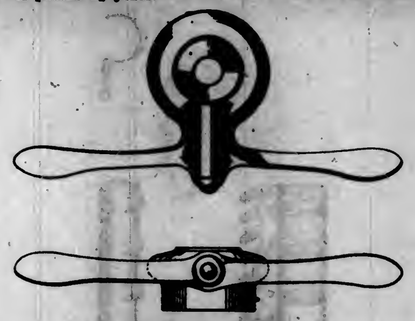
The ornamental design for a grease gun, as shown.

59,362. CORNER-PIECE FOR VEHICLE-TOPS. WILLIAM B. LARKINS, San Rafael, Calif. Filed June 18, 1921. Serial No. 478,748. Term of patent 7 years.



The ornamental design for a corner piece for vehicle tops, as shown.

59,363. RADIATOR-CAP. ARCH L. LITCHFIELD, Toledo, Ohio. Filed June 16, 1921. Serial No. 478,178. Term of patent 14 years.



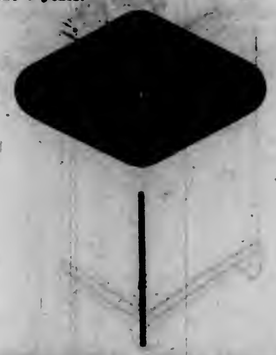
The ornamental design for a radiator cap substantially as shown.

59,364. CASING FOR TIRE-GAGES. ARTHUR B. LOW, Denver, Colo. Filed June 7, 1920. Serial No. 387,186. Term of patent 14 years.



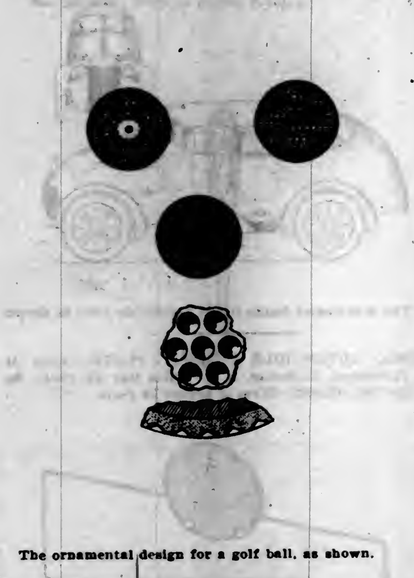
The ornamental design for a casing for tire gages, as shown.

59,365. NAME-PLATE. CHARLES H. LYNCH, Seattle, Wash. Filed July 16, 1920. Serial No. 396,843. Term of patent 7 years.



The ornamental design for a name plate, as shown.

59,366. GOLF-BALL. PATRICK A. MARTIN, Birmingham, England. Filed Oct. 12, 1920. Serial No. 416,567. Term of patent 7 years.



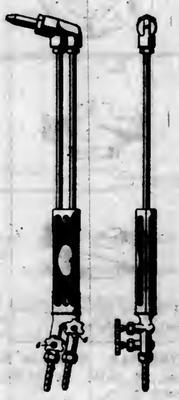
The ornamental design for a golf ball, as shown.

59,367. TUBING FOR AUTOMOBILE-WINDSHIELD FRAMES. WILLIAM B. MCCARTHY, Milford, Conn., assignor to The Rostand Manufacturing Company, Milford, Conn., a Corporation of Connecticut. Filed Oct. 15, 1920. Serial No. 417,249. Term of patent 14 years.



The ornamental design for tubing for automobile windshield frames, as shown.

59,368. WELDING-BLOWPIPE OR SIMILAR ARTICLE. ELOF H. MINDEN, Short Hills, N. J., assignor to American Gas-Accumulator Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Mar. 18, 1920. Serial No. 366,993. Term of patent 14 years.



The ornamental design for a welding blow pipe or similar article, as shown.

59,369. SECTIONAL SUPPORT FOR ELECTRIC HEATING ELEMENTS. FREDERICK W. MOFFAT, Weston, Ontario, Canada. Filed Apr. 19, 1921. Serial No. 462,695. Term of patent 14 years.



The ornamental design for a sectional support for electric heating elements, as shown.

59,370. SECTIONAL SUPPORT FOR ELECTRIC HEATING ELEMENTS. FREDERICK W. MERRAT, Weston, Ontario, Canada. Filed Apr. 19, 1921. Serial No. 462,606. Term of patent 14 years.



The ornamental design for a sectional support for electric heating elements, as shown.

59,371. WRECKING-BAR. CHARLES NELSON, Hoffman, Minn. Filed Dec. 23, 1919. Serial No. 347,024. Term of patent 14 years.



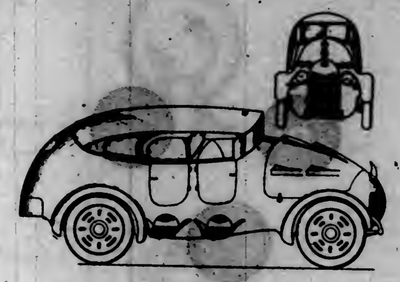
The ornamental design for a wrecking bar, as shown.

59,372. CUFF-BUTTON. JOHN H. OSTER, Cleveland, Ohio, assignor to Arthur S. Newman, Cleveland, Ohio. Filed Jan. 14, 1920. Serial No. 351,487. Term of patent 3½ years.



The ornamental design for a cuff button as shown.

59,373. AUTOMOBILE-BODY. ERNEST HAWKSTONE, Los Angeles, Calif. Filed Aug. 26, 1920. Serial No. 405,850. Term of patent 7 years.



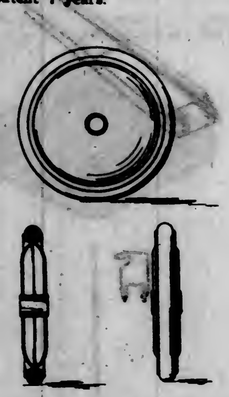
The ornamental design for an automobile body as shown.

59,374. AUTOMOBILE LICENSE-PLATE. JOHN M. PATTERSON, Rochester, N. Y. Filed May 13, 1921. Serial No. 469,380. Term of patent 14 years.



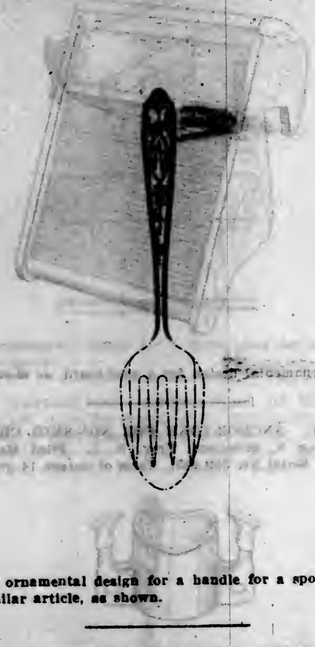
The ornamental design for an automobile license plate as shown.

59,375. DISK WHEEL. WILLIAM L. PFEIFFER, Rochester, N. Y., assignor to William J. Woerner, Rochester, N. Y. Filed May 13, 1921. Serial No. 469,381. Term of patent 7 years.



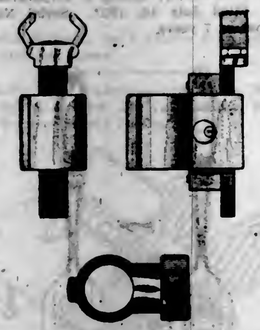
The ornamental design for a disk wheel as shown.

59,376. HANDLE FOR A SPOON, FORK, OR SIMILAR ARTICLE. FREDERICK E. PRITCHARD, Waterbury, Conn., assignor to International Silver Co., Meriden, Conn., a Corporation of New Jersey. Filed July 9, 1921. Serial No. 483,578. Term of patent 7 years.



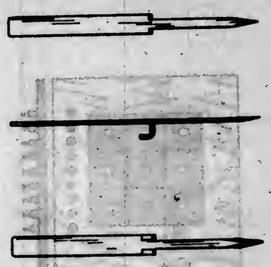
The ornamental design for a handle for a spoon, fork, or similar article, as shown.

59,377. AUTOMOBILE - STEERING - WHEEL LOCK. CLARA O. RUSH, San Francisco, Calif., assignor to Milton A. Rush, San Francisco, Calif. Filed June 16, 1921. Serial No. 478,171. Term of patent 7 years.



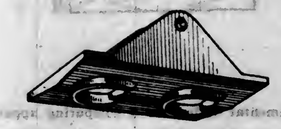
The ornamental design for an automobile steering wheel lock, as shown.

59,378. MILK-BOTTLE-STOPPER REMOVER. TOM W. GAHL, Seattle, Wash. Filed July 12, 1921. Serial No. 485,748. Term of patent 14 years.



The ornamental design for a milk-bottle stopper remover, as shown.

59,379. TRACTION-TREAD. GEORGE L. SCHOFIELD, Frederick, Md. Filed June 10, 1921. Serial No. 476,564. Term of patent 14 years.



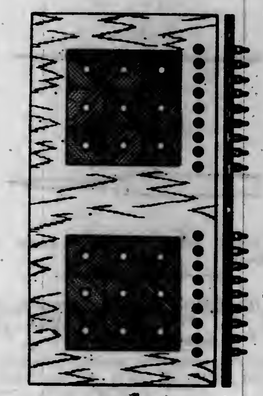
The ornamental design for a traction tread, as shown.

59,380. POWER-STICK CLAMP FOR LOOMS. ROMANO SERAFIN, Hartford, Conn. Filed Mar. 30, 1920. Serial No. 370,014. Term of patent 3½ years.



The ornamental design for a power stick clamp for looms, as shown.

59,381. COMPUTING APPARATUS. NEVA A. SHEPHERD, Omaha, Nebr. Filed Mar. 26, 1921. Serial No. 455,651. Term of patent 7 years.



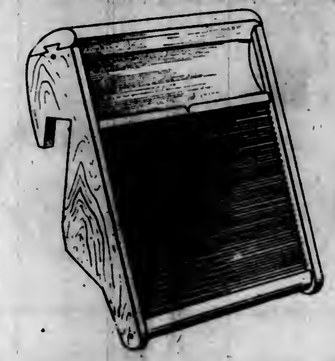
The ornamental design for a computing apparatus, as shown.

59,382. FLUE-CLEANING BLADE. GEORGE E. SHIRLEY, Alba, Mo. Filed May 24, 1920. Serial No. 383,993. Term of patent 7 years.



The ornamental design for a flue cleaning blade, as shown and described.

59,383. WASHBOARD. CHARLES SHOLIN, San Francisco, Calif. Filed Oct. 19, 1920. Serial No. 418,169. Term of patent 14 years.



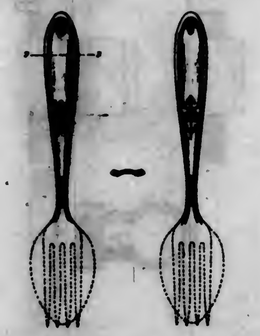
The ornamental design for a washboard, as shown.

59,384. ANCHOR-YOKE FOR NON-SKID CHAINS. WILLIAM N. SLEICHER, Troy, N. Y. Filed Mar. 27, 1920. Serial No. 369,445. Term of patent 14 years.



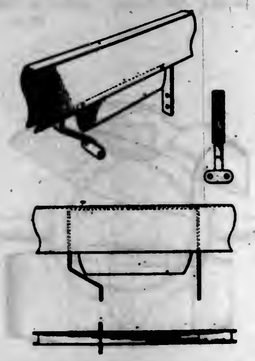
The ornamental design for an anchor-yoke for non-skid chains, as shown.

59,385. HANDLE FOR A SPOON, FORK, AND SIMILAR ARTICLE. IRVING V. SMITH, Glastonbury, Conn., assignor to The Williams Brothers Manufacturing Company, Glastonbury, Conn., a Corporation of Connecticut. Filed July 16, 1921. Serial No. 485,305. Term of patent 7 years.



The ornamental design for a handle for a spoon, fork and similar article shown in the accompanying drawing.

59,386. NAME-PLATE FOR AUTOMOBILES. CLARK SCOTES, Puyallup, Wash. Filed June 14, 1921. Serial No. 477,554. Term of patent 7 years.



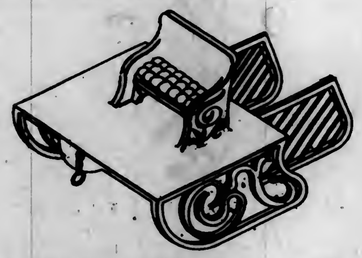
The ornamental design for a name plate for automobiles, as shown.

59,387. HANDLE FOR A SPOON, FORK, OR SIMILAR ARTICLE. GUSTAVE STROMEMAKER, Wallingford, Conn., assignor to International Silver Co., Meriden, Conn., a Corporation of New Jersey. Filed Nov. 26, 1920. Serial No. 426,658. Term of patent 7 years.



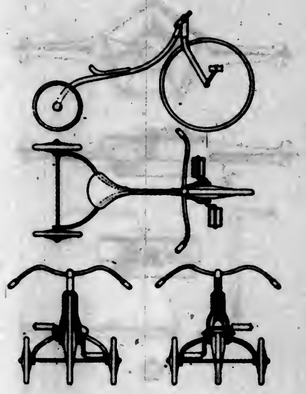
The ornamental design for a handle for a spoon, fork, or similar article, as shown.

59,388. SLED. LEON TKACHUK, Aldergrove, British Columbia, Canada. Filed June 1, 1921. Serial No. 474,260. Term of patent 3½ years.



The ornamental design for a sled, substantially as shown.

59,389. CHILD'S VELOCIPEDE. JAMES E. TULLY, St. Louis, Mo., assignor to Metallic Industries, Inc., St. Louis, Mo., a Corporation of Delaware. Filed Feb. 18, 1921. Serial No. 446,181. Term of patent 14 years.



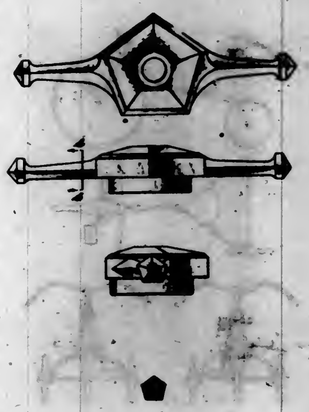
An ornamental design for a child's velocipede, as shown.

59,390. RADIATOR-CAP. WALTER VAN GUILDER, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed June 9, 1921. Serial No. 476,849. Term of patent 7 years.



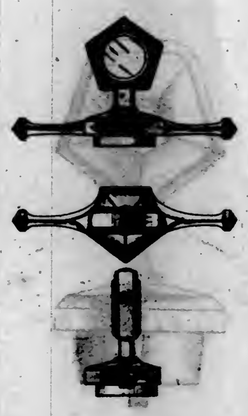
The ornamental design for a radiator cap as shown.

59,391. RADIATOR-CAP. Walter Van Guilder, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed June 10, 1921. Serial No. 476,565. Term of patent 7 years.



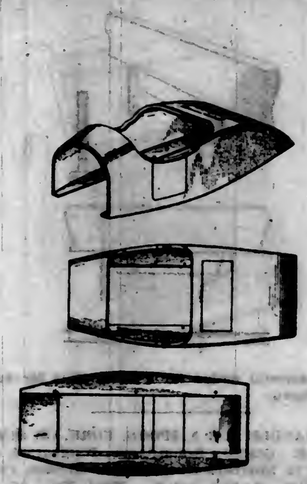
The ornamental design for a radiator cap as shown.

59,392. RADIATOR-CAP WITH TEMPERATURE-INDICATOR. Walter Van Guilder, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed June 10, 1921. Serial No. 476,566. Term of patent 7 years.



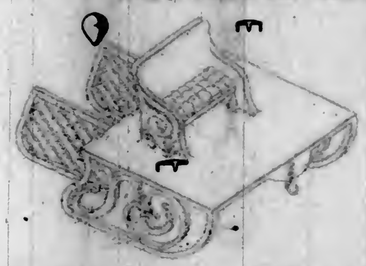
The ornamental design for a radiator cap with temperature indicator as shown.

59,393. VEHICLE-BODY. Green J. Wesson, Anniston, Ala. Filed Aug. 21, 1920. Serial No. 405,207. Term of patent 3½ years.



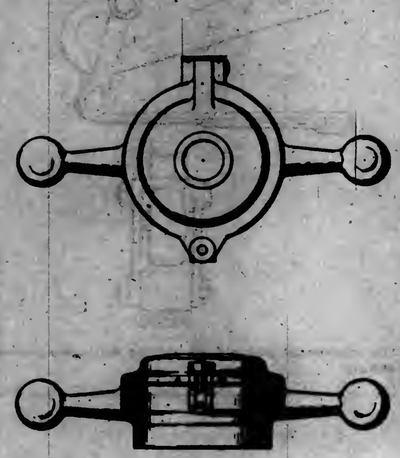
The ornamental design for a vehicle body, as shown.

59,394. SHOE-PLATE. Mansfield M. West, Cleveland, Ohio, assignor to The Universal Shoe Plate Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 3, 1918. Serial No. 256,753. Term of patent 14 years.



The ornamental design for a shoe plate, as shown.

59,395. RADIATOR-CAP. Frederick G. Whittemore, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed June 9, 1921. Serial No. 476,351. Term of patent 7 years.



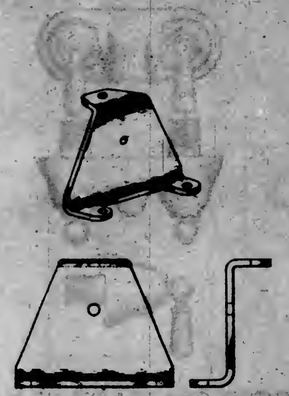
The ornamental design for a radiator cap, as shown.

59,396. TOOL. John G. Williams, West Brownsville, Pa. Filed June 8, 1921. Serial No. 476,101. Term of patent 7 years.



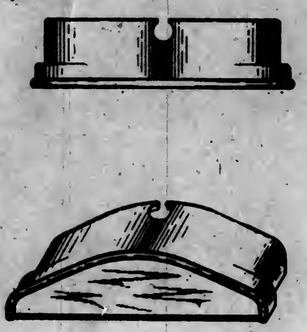
The ornamental design for a tool, as shown.

59,397. CRANK-CASE ARM. Thomas F. Wilson, Providence, R. I. Filed Dec. 13, 1919. Serial No. 345,901. Term of patent 14 years.



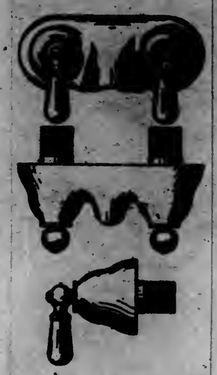
The ornamental design for a crank case arm, as shown.

59,398. AUTOMOBILE-RADIATOR CURTAIN-HOOD. Charles C. Woodberry, Cincinnati, Ohio. Filed May 9, 1921. Serial No. 468,177. Term of patent 7 years.



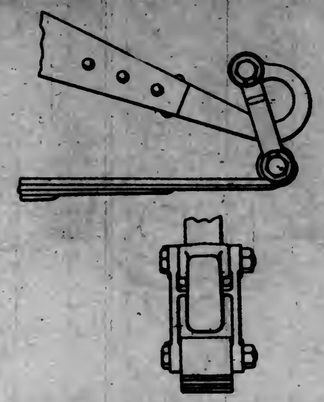
The ornamental design for an automobile radiator curtain hood, as shown.

50,899. BATH-COCK. MAXIMILLIAN WILLIAM WESSNOWSKY, San Francisco, Calif., assignor to Standard Brass Casting Co., Oakland, Calif., a Corporation of California. Filed Oct. 14, 1920. Serial No. 417,661. Term of patent 14 years.



The ornamental design for a bath cock, as shown.

54,469. VEHICLE SPRING SUSPENSION. NATHANIEL WITHEE, Cleveland Heights, Ohio. Filed May 26, 1921. Serial No. 472,913. Term of patent 7 years.



The ornamental design for a vehicle spring suspension, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, OCTOBER 11, 1921.

[PUBLISHED OCTOBER 17, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 106,845. (CLASS 37. PAPER AND STATIONERY.) OSWEGO RIVER PAPER MILLS, Phoenix, N. Y. Filed Feb. 5, 1918.



In drawing the vertical parallel lines indicate the color red, while the diagonal lines indicate green.

Particular description of goods.—Toilet-Paper.

Claims use since Apr. 11, 1901.

Ser. No. 116,892. (CLASS 37. PAPER AND STATIONERY.) SCOTT PAPER COMPANY, Chester, Pa. Filed Mar. 7, 1919.

BONAFID

Particular description of goods.—Toilet-Paper.

Claims use since February, 1906.

Ser. No. 118,257. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CALDWELL ELECTRIC CORPORATION, Champaign, Ill. Filed May 8, 1919.

CALDWELL COMPOLUX

Particular description of goods.—Electric-Lighting Fixtures, Electric Table-Lamps and Floor-Lamps, and Electroliers.

Claims use since 1916.

Ser. No. 119,986. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) PABST BREWING COMPANY, Milwaukee, Wis. Filed June 26, 1919.

BLUE RIBBON

Particular description of goods.—Non-Alcoholic Malt Syrup for the Production of a Cereal Malt Beverage.

Claims use since Feb. 27, 1919.

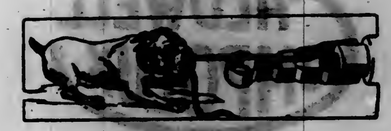
Ser. No. 120,788. (CLASS 43. THREAD AND YARN.) CHEROKEE SPINNING CO., Knoxville, Tenn. Filed July 22, 1919.



Particular description of goods.—Yarns and Threads.
Claims use since about Oct. 1, 1917.

Ser. No. 123,498. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE RELIABLE MANUFACTURING CO., Cleveland, Ohio. Filed Oct. 6, 1919.

The



Bulldog Clip

No claim is made to the word "Clip" and the representation of the clip shown in the drawing apart from the mark shown.

Particular description of goods.—Storage-Battery Clips.
Claims use since on or about Mar. 1, 1919.

Ser. No. 129,396. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) E. W. MERRITT & Co., New York, N. Y. Filed Mar. 8, 1920.



The star and the double band encircling the star being colored yellow, and no claim being made to the exclusive right to the use of the words "Day and night Merritt gives both power and light" apart from the mark shown in the drawing.

Particular description of goods.—Unitary Electric-Lighting Plants.
Claims use since about July 15, 1919.

Ser. No. 129,769. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TRI-STATE MILLING CO., Bellefourche, S. D. Filed Mar. 15, 1920.



Particular description of goods.—Wheat-Flour Used for Human Beings, Stock, and Poultry.
Claims use since Jan. 1, 1916.

Ser. No. 130,726. (CLASS 2. RECEPTACLES.) F. D. CROCE & Co., New York, N. Y. Filed Apr. 6, 1920.



Particular description of goods.—Paper Bags.
Claims use since Sept. 5, 1919.

Ser. No. 131,936. (CLASS 15. OILS AND GREASES.) HENRY C. WILSON, New York, N. Y. Filed May 1, 1920.

STAZON

Particular description of goods.—Rust Retarding or Cleansing Compositions and Grease for Ferrous Materials.
Claims use since Mar. 1, 1920.

Ser. No. 132,457. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) WIZARD AUTOMOBILE COMPANY, Charlotte, N. C. Filed May 14, 1920.



In the drawing the horizontal lining represents blue and the vertical lining represents red.

Particular description of goods.—Automobiles.
Claims use since Jan. 30, 1920.

Ser. No. 132,849. (CLASS 15. OILS AND GREASES.) THE C. H. CLARK OIL COMPANY, Cleveland, Ohio. Filed May 24, 1920.

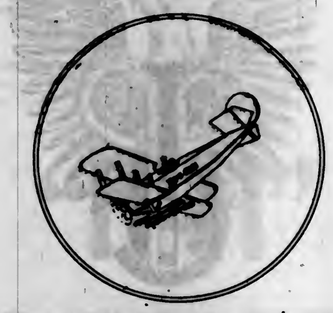
CLARK'S SILENT-GEAR LUBRICANT



No claim being made to the words "Clark's Silent-Gear Lubricant" apart from the mark shown in the drawing.

Particular description of goods.—Lubricating Oils and Greases.
Claims use since October, 1916.

Ser. No. 133,192. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SOAP MANUFACTURERS SALES COMPANY, San Francisco, Calif. Filed June 2, 1920.



Particular description of goods.—Soaps.
Claims use since Apr. 24, 1920.

Ser. No. 133,242. (CLASS 37. PAPER AND STATIONERY.) AMERICAN KARDEX COMPANY, Tonawanda, N. Y. Filed June 4, 1920.

TRANSOLOID

Particular description of goods.—Transparent Covers, Sheaths, Protectors, and Color-Signals for Use in Record, Index, and Filing Devices and the Transparent Sheets from Which the Same are Made.
Claims use since on or about Jan. 1, 1916.

Ser. No. 133,456. (CLASS 39. CLOTHING.) DAISY WHITEHEAD KNITTING CO., New York, N. Y. Filed June 9, 1920.

King of all

Particular description of goods.—Hosiery.
Claims use since Oct. 1, 1918.

Ser. No. 134,780. (CLASS 37. PAPER AND STATIONERY.) IDEAL COATED PAPER COMPANY, Brookfield, Mass. Filed July 10, 1920.



The picture of a child is not a portrait.

Particular description of goods.—Gummed Paper.
Claims use since April, 1920.

Ser. No. 134,793. (CLASS 39. CLOTHING.) THE SAFETY EQUIPMENT SERVICE COMPANY, Cleveland, Ohio. Filed July 10, 1920.

ADJUSTAL

Particular description of goods.—Cloth and Canvas Leggings and Boots Used as Protective Devices for Workers.
Claims use since about Jan. 1, 1919.

Ser. No. 135,098. CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE CLOUD ACCESSORIES CORPORATION, Chicago, Ill. Filed July 17, 1920.

CLOUD

Particular description of goods.—Spark-Plugs for Internal-Combustion Engines.
Claims use since Feb. 15, 1910.

Ser. No. 135,453. (CLASS 2. RECEPTACLES.) SAMUEL H. ROBINSON, Kansas City, Mo. Filed July 27, 1920.



Particular description of goods.—Optical Cases or Conveyers in which are Carried Eyeglasses, Spectacles, or Goggles.
Claims use since Jan. 1, 1915.

Ser. No. 135,679. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTFALL-LANE COMPANY, Turlock, Calif. Filed July 31, 1920.

W L

Particular description of goods.—Fresh Deciduous Fruits and Fresh Vegetables.
Claims use since Apr. 15, 1920.

Ser. No. 136,041. (CLASS 27. HOROLOGICAL INSTRUMENTS.) SCINTILLA, Solothurn, Switzerland. Filed Aug. 12, 1920.

SCINTILLA

Consisting of the word "Scintilla."
Particular description of goods.—Electric Clocks and Clocks and Watches of All Kinds and Parts Thereof.
Claims use since June 19, 1917.

Ser. No. 136,250. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) HADFIELDS LIMITED, Sheffield, England. Filed Aug. 19, 1920.

GALAHAD

Particular description of goods.—Ships' Propellers, Horse-Drawn Carts and Horse-Drawn Carriages, Railway-Carriages and Railway-Trucks, Horse-Drawn Omnibuses and Motor-Omnibuses, Motor-Carriages, Motor-Chassis, Motor-Cars, Motorcycles, and Side Cars.
Claims use since Feb. 22, 1918.

Ser. No. 137,334. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE REMAR COMPANY, Oakland, Calif. Filed Sept. 18, 1920.

REMAR

Particular description of goods.—Cakes, Candies, and Fruit Preserves.
Claims use since Apr. 19, 1920.

Ser. No. 137,470. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Sept. 22, 1920.

GOODRICH

Under section 9 of the act of Mar. 19, 1920.
Particular description of goods.—Mats Made Wholly or Partly of Rubber or Having Rubber Incorporated Therein.
Claims use since about 1909.

Ser. No. 137,708. (CLASS 37. PAPER AND STATIONERY.) THE PEERLESS PAPER COMPANY, Dayton, Ohio. Filed Sept. 28, 1920.



Particular description of goods.—Writing and Printing Paper.
Claims use since January, 1919.

Ser. No. 137,709. (CLASS 37. PAPER AND STATIONERY.) THE PEERLESS PAPER COMPANY, Dayton, Ohio. Filed Sept. 28, 1920.

IDYLWILD

Particular description of goods.—Bond-Paper Suitable for Writing and Printing Purposes.
Claims use since January, 1918.

Ser. No. 137,795. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WADSWORTH, HOWLAND & CO., INCORPORATED, Boston, Mass. Filed Sept. 30, 1920.

FEL KIM

Particular description of goods.—Paint Enamels, Varnishes, Dry, Paste, and Ready-Mixed Paints.
Claims use since 1906.

Ser. No. 137,858. (CLASS 15. OILS AND GREASES.) SERVICE OIL REFINING COMPANY, Kokomo, Ind. Filed Oct. 2, 1920.

HOOSIER LUBRICANTS

The words "Hoosier" and "Lubricants" are hereby disclaimed apart from the mark as shown on the drawing.
Particular description of goods.—Lubricating Oils and Greases.
Claims use since January, 1919.

Ser. No. 138,440. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) F. E. HAGGERTY AND SON, San Francisco, Calif. Filed Oct. 18, 1920.

"H-H"

Particular description of goods.—A Syrup Composed of Barley and Hops for Use in Making Home Beverages.
Claims use since Nov. 1, 1919.

Ser. No. 138,712. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Oct. 23, 1920.

DAISY

Particular description of goods.—Hoof-Pads.
Claims use since January, 1910.

Ser. No. 138,824. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEW ENGLAND BISCUIT COMPANY, Worcester, Mass. Filed Oct. 26, 1920.

CLOVERLEAF OYSTER

No claim being made to the word "Oyster" apart from the mark shown in the drawing.
Particular description of goods.—Crackers.
Claims use since Oct. 31, 1902.

Ser. No. 139,412. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WILLIAMS-KOHN-MCMANIS CO., Houston, Tex., assignor to W-K-M Company, Houston, Tex., a Firm. Filed Nov. 9, 1920.

W-K-M

Particular description of goods.—Well-Drilling Tools Consisting of Drilling-Bits, Swage-Nipples, Tool-Joints, Drill-Collars, Rotary Pipe-Slips, and Milling-Tools.
Claims use since January, 1920.

Ser. No. 139,524. (CLASS 27. HOROLOGICAL INSTRUMENTS.) B. GUTTER & SONS, New York, N. Y. Filed Nov. 11, 1920.

Meridial

Particular description of goods.—Watches, Watchcases, and Watch-Movements.
Claims use since Apr. 1, 1920.

Ser. No. 139,526. (CLASS 27. HOROLOGICAL INSTRUMENTS.) B. GUTTER & SONS, New York, N. Y. Filed Nov. 11, 1920.

Sractear

Particular description of goods.—Watches, Watchcases, Watch-Movements.
Claims use since Apr. 1, 1920.

Ser. No. 139,528. (CLASS 27. HOROLOGICAL INSTRUMENTS.) B. GUTTER & SONS, New York, N. Y. Filed Nov. 11, 1920.

Particular description of goods.—Watches, Watchcases, and Watch-Movements.
Claims use since Apr. 1, 1920.

Ser. No. 139,761. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) TRUSCON STEEL COMPANY, Detroit, Mich. Filed Nov. 13, 1920.

STUCCOTEX

Particular description of goods.—A Paint Coating for Exterior Surfaces.
Claims use since July 1, 1920.

Ser. No. 140,313. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

GLADSTONE

Particular description of goods.—Bedspreads.
Claims use since 1901.

Ser. No. 142,469. (CLASS 19. INKS AND INKING MATERIALS.) CHAS. A. FOLTZ & COMPANY, Cleveland, Ohio. Filed Dec. 1, 1920.

FOYER'S NATIONAL BRAND

Applicant disclaims the right to the exclusive use of the word "Brand," apart from the mark as shown.
Particular description of goods.—Typewriter-Ribbons and Carbon-Paper.
Claims use since 1908.

Ser. No. 140,554. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE WUDARY COMPANY, Oshkosh, Wis. Filed Dec. 2, 1920.



No claim is made to the words "Art Toys" apart from the mark shown.
Particular description of goods.—Art Toys Constructed with Wood Veneer.
Claims use since July 1, 1920.

Ser. No. 140,633. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BERRENS DAIRY PRODUCTS COMPANY, INC., New Orleans, La. Filed Dec. 6, 1920.



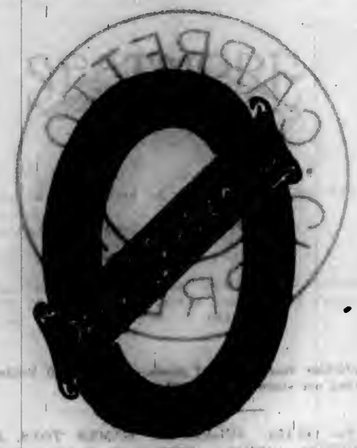
The mark being lined for blue.
Particular description of goods.—Milk, Cheese, and Eggs.
Claims use since September, 1919.

Ser. No. 140,697. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) VIMCO MFG. COMPANY, Inc., Buffalo, N. Y. Filed Dec. 6, 1920.

VIMCOLIGHT

The use of the word "Light" being disclaimed as a part of the trade-mark.
Particular description of goods.—Electrical Appliances—Namely, Portable Electric Lamps.
Claims use since Feb. 1, 1920.

Ser. No. 140,764. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE MADAM C. J. WALKER MANUFACTURING CO., Indianapolis, Ind. Filed Dec. 7, 1920.



Particular description of goods.—Toilet Preparations Including Hair-Tonic, Hair Preparation, Toilet Water, Cold-Cream, Cleansing-Cream, Vanishing-Cream, Witch-Hazel Jelly, Superfine Face-Powder, Rouge, Talcum Powder, and Dental Cream.
Claims use since May 1, 1920.

Ser. No. 140,900. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) LOUIS J. PICHA, St. Paul, Minn. Filed Dec. 11, 1920.

BULLY BOY

Particular description of goods.—Wheeled Toys, Generally Known as Scooters.
Claims use since Aug. 24, 1920.

Ser. No. 141,005. (CLASS 7. CORDAGE.) MACWHYTE COMPANY, Kenosha, Wis. Filed Dec. 13, 1920.

BRUNTONISED

Particular description of goods.—Wire Rope.
Claims use since on or about July 1, 1920.

Ser. No. 141,572. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HILTON COLLINS COMPANY, Louisville, Ky. Filed Dec. 28, 1920.



The same being a portrait and facsimile signature of A. B. Tincup.
Particular description of goods.—Baseball-Bats.
Claims use since Dec. 14, 1920.

Ser. No. 141,573. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HILTON COLLINS COMPANY, Louisville, Ky. Filed Dec. 28, 1920.



Being a portrait and facsimile signature of Fred Nicholson.
Particular description of goods.—Baseball-Bats.
Claims use since Dec. 16, 1920.

Ser. No. 142,624. (CLASS 27. HOROLOGICAL INSTRUMENTS.) MEYER & STUDELI, Societe Anonyme, Soleure, Switzerland. Filed Jan. 10, 1921.

DELIA

Particular description of goods.—Watches, Clocks, and Parts Thereof.
Claims use since May 29, 1920.

Ser. No. 142,045. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) TETRALIN GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Berlin, Germany. Filed Jan. 10, 1921.

Tetralin

Particular description of goods.—Explosive Substances, Projectiles, Ammunition.
Claims use since Dec. 12, 1906.

Ser. No. 142,772. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES E. BRADY, Cottage Grove, Tenn. Filed Jan. 26, 1921.

BRADY'S NEURATONE
(No. 7)

Particular description of goods.—A Medicinal Preparation for Stomach and Bowel Disorders.
Claims use since June 5, 1920.

Ser. No. 142,850. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) NEVIN-FRANK COMPANY, Butte, Mont. Filed Jan. 27, 1921.

ALCO

Particular description of goods.—Non-Alcoholic, Maltless, Non-Cereal Beverages Sold as Soft Drinks.
Claims use since Apr. 1, 1920.

Ser. No. 142,990. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) HIRAM H. HIRSCH, Philadelphia, Pa. Filed Jan. 31, 1921.



Particular description of goods.—Ready-Mixed Paints.
Claims use since Aug. 1, 1920.

Ser. No. 142,037. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARES Y CIA, Buenos Aires, Argentina. Filed Feb. 1, 1921.



Particular description of goods.—Cheese and Butter.
Claims use since Oct. 31, 1916.

Ser. No. 143,154. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) RICHARD D. BARROW & SON, Louisville, Ky. Filed Feb. 4, 1921.

ALL STAR

Particular description of goods.—Toy Balloons.
Claims use since Jan. 2, 1921.

Ser. No. 143,460. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SHAPLEIGH HARDWARE COMPANY, St. Louis, Mo. Filed Feb. 11, 1921.

"DIAMOND EDGE IS A QUALITY PLEDGE"

Particular description of goods.—Ice-Skates.
Claims use since September, 1909.

Ser. No. 143,585. (CLASS 39. CLOTHING.) J. J. BEVERLE MFG. CO., New York, N. Y. Filed Feb. 15, 1921.

PURITAN

Particular description of goods.—Rubber Baby-Pants and Waterproof House-Aprons.
Claims use since 1911.

Ser. No. 143,608. (CLASS 37. PAPER AND STATIONERY.) IDEAL COATED PAPER COMPANY, Brookfield, Mass. Filed Feb. 15, 1921.

BLUE ★

Particular description of goods.—Gummed Paper.
Claims use since Feb. 1, 1921.

Ser. No. 143,650. (CLASS 32. FURNITURE AND UPHOLSTERY.) FRANK RIDDER & SONS, Philadelphia, Pa. Filed Feb. 16, 1921.

SEATMORE

Particular description of goods.—Chairs for Use in Homes and Stores.
Claims use since about Sept. 20, 1920.

Ser. No. 143,696. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LIBERTY TREE CANDY COMPANY, Boston, Mass. Filed Feb. 17, 1921.



Particular description of goods.—Candies and Chocolates.
Claims use since Aug. 4, 1920.

Ser. No. 143,698. (CLASS 15. OILS AND GREASES.) NORTH END AUTO SUPPLY COMPANY, INC., Troy, N. Y. Filed Feb. 17, 1921.

Neasco

Particular description of goods.—Gasolene, Lubricating-Oils, Illuminating-Oils, and Fuel-Oils.
Claims use since Jan. 1, 1919.

Ser. No. 143,700. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ROGERS CONSTRUCTION COMPANY, Gloucester City, N. J. Filed Feb. 17, 1921.



No claim is made to the proper name "Rogers," the word "Toys," and the letters "U. S. A.," or the address "Gloucester City, N. J." apart from the mark shown in the drawing.
Particular description of goods.—Toy Furniture, Toy House Furnishings, Toy Vehicles, Toy Boats, Wooden Toy Animals, Trundle Toys, and Toy Rattles.
Claims use since about Jan. 1, 1920.

Ser. No. 143,715. (CLASS 15. OILS AND GREASES.) THE SNOW FLAKE AXLE GREASE COMPANY, Boston, Mass. Filed Feb. 17, 1921.

SNOW FLAKE

Particular description of goods.—Axle-Greases and other Lubricating Oils and Greases.
Claims use since on or about Jan. 1, 1880.

Ser. No. 143,840. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) BERNARD STEMBER, New York, N. Y. Filed Feb. 19, 1921.

IT'S YOUR SECRET!
Safe Deposit
Pocket

Consisting of the words "It's Your Secret; Safe Deposit Pocket," no claim being made to the exclusive use of the word "Pocket" apart from the mark as shown in the drawing.
Particular description of goods.—Pocketbooks.
Claims use since Dec. 20, 1920.

Ser. No. 143,894. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) POWER TRUCK AND TRACTOR COMPANY, Detroit, Mich. Filed Feb. 21, 1921.

POWER

No claim is made to the words "Detroit, U. S. A." nor to the word "Power" apart from the distinctive form as associated with the other features of the mark shown in the drawing.

Particular description of goods.—Motor-Trucks.

Claims use since February, 1920.

Ser. No. 143,966. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) IDA J. TETLOW, Philadelphia, Pa. Filed Feb. 23, 1921.

SWANDOWN

Particular description of goods.—Powder-Puffs.

Claims use since Oct. 5, 1918.

Ser. No. 143,967. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) IDA J. TETLOW, Philadelphia, Pa. Filed Feb. 23, 1921.

Gussywillow

Particular description of goods.—Powder-Puffs.

Claims use since Oct. 5, 1918.

Ser. No. 144,212. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OLIVER WYNNE, Norfolk, Va. Filed Mar. 1, 1921.

ARMCO SPECIAL

No claim is made to the word "Special" except as shown in the drawing.

Particular description of goods.—Lard Substitute, Consisting of Cotton-Seed Oil and other Ingredients.

Claims use since Jan. 19, 1921.

Ser. No. 144,346. (CLASS 15. OILS AND GREASES.) NILS IVAR MALMSTROM, assignor to Lubraa Oil Corporation, New York, N. Y., a Corporation of New York, New York, N. Y. Filed Mar. 5, 1921.

LUBRAA

Particular description of goods.—Lubricating Oils and Greases.

Claims use since Aug. 1, 1920.

Ser. No. 144,694. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) BUTTERFIELD TRUNK CO., Seattle, Wash. Filed Mar. 11, 1921.

BUTTERFIELD'S BETTERBILT

No claim is made to the word "Betterbilt" apart from the mark shown in the drawing.

Particular description of goods.—Trunks.

Claims use since Jan. 15, 1921.

Ser. No. 144,706. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BLOCH CHEMICAL COMPANY, INC., New York, N. Y. Filed Mar. 14, 1921.

SCALPURA

Particular description of goods.—Preparation Used in the Treatment of the Scalp.

Claims use since December, 1917.

Ser. No. 144,711. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EKSTROM & LINNE BAKING CO., Chicago, Ill. Filed Mar. 14, 1921.

WINOTA

Particular description of goods.—Biscuits and Crackers.

Claims use since Nov. 15, 1920.

Ser. No. 144,754. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ALBERT O. TROSTEL, Milwaukee, Wis. Filed Mar. 14, 1921.



No claim is made to the words "Products Product" apart from the mark shown on the drawing.

Particular description of goods.—Wool and Hair.

Claims use since Mar. 12, 1921.

Ser. No. 144,780. (CLASS 38. PRINTS AND PUBLICATIONS.) CHARLES E. MIDDLER, Los Angeles, Calif. Filed Mar. 15, 1921.

The Arrowhead

Particular description of goods.—Monthly Magazine.

Claims use since Jan. 1, 1911.

Ser. No. 144,805. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELEKTRIZITÄTSWERK LONZA, Gampel, Switzerland. Filed Mar. 16, 1921.

Meta

Particular description of goods.—Agglomerates of Solid Aldehyde, Solid Methyl Alcohol, and Solid Ethyl Alcohol for Heating and Lighting Purposes.

Claims use since February, 1920.

Ser. No. 144,816. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) KATCHALL MOUSE TRAP MANUFACTURING CO., Greenville, Miss. Filed Mar. 16, 1921.

"KATCHALL"

Particular description of goods.—Mousetraps.

Claims use since Nov. 5, 1920.

Ser. No. 144,882. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) SAMUEL SHERMAN, New York, N. Y. Filed Mar. 17, 1921.

London Luggage EST. 1901 New York City

No claim is made to the words "Luggage," "London," and "New York City" except as shown in the drawing.

Particular description of goods.—Traveling-Bags, Suit-cases, Brief-Cases, Trunks, and Pocketbooks.

Claims use since July 1, 1920.

Ser. No. 144,911. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARTIN L. HALL COMPANY, Boston, Mass. Filed Mar. 18, 1921.

CHEER-UP

Particular description of goods.—Coffee.

Claims use since 1912.

Ser. No. 145,219. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) LILLIAN Y. KINLEYSIDE, Atlantic City, N. J. Filed Mar. 25, 1921.

MYSTIC BOARD

Consisting of the words "Mystic Board," no claim being made to the exclusive use of the word "Board" apart from the mark shown in the drawing.

Particular description of goods.—A Game-Board with an Indicator for Telling Fortunes, Used with Playing-Cards.

Claims use since Mar. 9, 1921.

Ser. No. 145,473. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PATENT CEREALS COMPANY, Geneva, N. Y. Filed Mar. 30, 1921.

SUNSEAL

Particular description of goods.—Breakfast Cereals Made of Corn, Also Hominy-Grits, Pancake-Flour, Corn-Flour, Brown-Bread Flour, Cornmeal, Corn-Oil, and Salad and Cooking Oil.

Claims use since Feb. 8, 1919.

Ser. No. 145,534. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) HOWARD J. SEGUR, Portland, Oreg. Filed Mar. 31, 1921.

SEGUR

Particular description of goods.—A Controlling Device for Automobile-Spotlights—Automobile-Spotlight Brackets Which are Provided with Tilting Swinging Mechanism Operable from within Open or Closed Cars.
Claims use since Mar. 1, 1921.

Ser. No. 145,593. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) C. L. RYLEY COAL COMPANY, Lexington, Ky. Filed Apr. 1, 1921.



Particular description of goods.—Coal.
Claims use since Jan. 5, 1921.

Ser. No. 145,594. (CLASS 2. RECEPTACLES.) SHERMAN ENVELOPE COMPANY, Worcester, Mass. Filed Apr. 1, 1921.

The Economy

Particular description of goods.—Paper Drinking-Cups.
Claims use since Jan. 15, 1921.

Ser. No. 145,690. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) AUGUST KUHNLENZ, Sharon and Farrell, Pa. Filed Apr. 4, 1921.

MAKU

Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages—Namely, Root-Beer, Winette, Ginger-Ale, Kola, and Hop Beer.
Claims use since May, 1918.

Ser. No. 145,703. (CLASS 17. TOBACCO PRODUCTS.) PINKUS BROTHERS, New York, N. Y. Filed Apr. 4, 1921. Under ten-year proviso.

MADE-TO-ORDER

Particular description of goods.—Cigarettes.
Claims use since May, 1894.

Ser. No. 145,771. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) EDW. DIEHL, Nashville, Tenn. Filed Apr. 6, 1921.

Edw Drehl's
Catawba-Crush

The signature shown being a facsimile of applicant's signature, no claim being made to the word "Catawba" apart from the mark shown on the drawing.
Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.
Claims use since Jan. 15, 1920.

Ser. No. 145,796. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ROLL-O-RACER COMPANY, INC., New York, N. Y. Filed Apr. 6, 1921.

ROLL-O-RACER

Particular description of goods.—Game-Boards Consisting of Undulating, Extended, and Circuitous Runway with an Elevated Starting End and a Lower Discharge End and Pieces Therefor Consisting of Balls.
Claims use since May, 1920.

Ser. No. 146,027. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ILHAN H. NEW, Detroit, Mich. Filed Apr. 11, 1921.

La Choy
THE NEW AMERICAN VEGETABLE

No claim is made to the exclusive use of the words "The New American Vegetable" apart from the mark shown in the drawing.
Particular description of goods.—Green, Fresh, and Canned Vegetables.
Claims use since Mar. 2, 1921.

Ser. No. 146,040. (CLASS 2. RECEPTACLES.) E. J. TRUM, INC., New York and Brooklyn, N. Y. Filed Apr. 11, 1921.

TRUMBILT
DRUG CARTONS-DO NOT SIFT

The exclusive use of the words "Drug cartons do not sift" are not claimed apart from the mark shown.
Particular description of goods.—Set-Up Boxes, Folding Cartons, Solid Boxes, and Cartons and Folding Boxes.
Claims use since Mar. 25, 1921.

Ser. No. 146,268. (CLASS 39. CLOTHING.) PEP-STEP CORP., Cedar Rapids, Iowa. Filed Apr. 16, 1921.



The words "An Inner Rubber Heel" appearing in the drawing are disclaimed as a part of this trade-mark.
Particular description of goods.—Foot-Pads in the Nature of Insoles for Use in Boots, Shoes, Slippers, Pumps, and Sandals.
Claims use since about Mar. 17, 1921.

Ser. No. 146,294. (CLASS 37. PAPER AND STATIONERY.) BROWN COMPANY, Portland, Me. Filed Apr. 18, 1921.

White Mountain Bond

No claim being made to the word "Bond."
Particular description of goods.—Writing and Printing Paper.
Claims use since Feb. 1, 1921.

Ser. No. 146,383. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MUTUAL PHARMACAL COMPANY, Boston, Mass. Filed Apr. 19, 1921.

MPC

Particular description of goods.—Syrup Expectorant, a Cough-Syrup, Phenaspirin Compound; a Tablet to Relieve Influenza, La Grippe, Migraine, Headaches, and Neuralgia, and Tabacetyl, a Tablet to Relieve Influenza, La Grippe, Migraine, Headaches, and Neuralgia.
Claims use since June 1, 1920.

Ser. No. 146,469. (CLASS 38. PRINTS AND PUBLICATIONS.) TEXTILE PUBLISHING COMPANY, New York, N. Y. Filed Apr. 20, 1921.

S EL-PLUS

Particular description of goods.—Printed Display-Panels, Art-Panels, Price-Tickets, Announcement-Cards, Show-Cards, Instruction Blue-Prints, Calendars, Advertising-Letters, Display-Studies, Printed Instruction-Papers, Lists of Show-Card Phrases.
Claims use since Apr. 6, 1921.

Ser. No. 146,527. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CALVIN LYNDE BEARDSLEY, Rock Island, Ill. Filed Apr. 22, 1921.

Concord Drips

Particular description of goods.—A Maltless, Non-Alcoholic Beverage Sold as a Soft Drink and Extracts and Syrups for Making the Same.
Claims use since Feb. 10, 1921.

Ser. No. 146,531. (CLASS 39. CLOTHING.) ELK BRAND SHIRT & OVERALL CO., Hopkinsville, Ky. Filed Apr. 22, 1921.

JOYSUIT

Applicant disclaims exclusive right to the use of the word "Suit" apart from the mark shown in the drawing.
Particular description of goods.—Children's One-Piece Suits.
Claims use since Dec. 1, 1920.

Ser. No. 146,583. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OREGON GROWERS COOPERATIVE ASSN., Salem, Oreg. Filed Apr. 22, 1921.

Mistland

Particular description of goods.—Dried Fruits, Dried Berries, Dried Vegetables, Canned Fruits, Canned Berries, Canned Vegetables, Fresh Fruits, Fresh Berries, Fresh Vegetables, Jams, Jellies, Preserves, Catsup, Vinegar, Mince-Meat, Canned Fish, Syrup, Nuts, Candy, Butter and Cheese, Tea, Coffee, Spices, Breakfast Cereals, Wheat-Flour.

Claims use since July 9, 1920.

Ser. No. 146,588. (CLASS 2. RECEPTACLES.) REPUBLIC BOX CO., Chicago, Ill. Filed Apr. 22, 1921.

"Dandy"

Particular description of goods.—Bottle-Boxes, Wood and Metal Combined; Bottle-Boxes, Wooden; Packing-Boxes, Wooden.

Claims use since Jan. 1, 1921.

Ser. No. 146,702. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) FRANKLIN SILVER PLATE COMPANY, Greenfield, Mass. Filed Apr. 25, 1921.

WEE FOLK'S

Particular description of goods.—Knives, Forks, Spoons, Napkin-Rings, Napkin-Markers, Cups, Bowls, Dishes, Platters, Servers, Trays, Mugs, Brushes, Combs, Mirrors, Baby-Pins, Baby-Rattles, Whistles, Bells, and Lockets, All of Said Articles Being Made Wholly or in Part of Sterling Silver, Silver Plate, Sheffield Plate, Gold, and Gold Plate.

Claims use since Feb. 2, 1921.

Ser. No. 146,783. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) SUCKLING LIMITED, Birmingham, England. Filed Apr. 26, 1921.

KINGSWAY

Particular description of goods.—Ash-Trays, Asparagus-Dishes, Asparagus-Eaters, Asparagus-Rests, Asparagus-Servers, Pudding Basins and Bowls, Bells, Bellows, Belt-Clasps, Ladies' Belts, Biscuit-Boxes; Biscuit, Butter, and Cheese Dishes; Bonbon Baskets, Dishes, and Stands; Bonnet-Whisks, Bottle-Coasters, Bottle-Stoppers, Bottle-Holders, Bottle-Labels, Bottle-Stands, Bowls, Brandy-Warmers, Bread-Baskets, Bread Platters and Trays, Bride-Cake Saws, Bridge-Boxes, Bridge Trump-Indicators, Brushes, Butter-Boats, Buckles, Button-Hooks, Buttons, Café au Lait Sets and Pots, Cake-Baskets, Calendars, Candelabras, Candlesticks, Canteens and Cabinets, Playing-Card Boxes, Card-Cases, Cayenne-Pepper Receptacles, Celery-Stands, Centerpieces, Chafing-Dishes, Communion-Chalices, Challenge-Bowls, Challenge-Cups, Challenge-Shields, Champagne-Jugs, Chatelaines, Cheese, Biscuit, and Butter Stands; Cheese-Scoops, Children's Food-Pushers and Spoons, Children's Rattles, Chutney-Scoops, Children's Cups, Cigar Boxes and Cases, Cigar-Cutters, Cigarette Boxes and Cases, Coffee-Percolators, Coffee-Pots, Coffee Sets, Combs, Communion Sets, Cruet-Stands, Cruets, Crumb-Scoops, Cups and Saucers, Decanters, Dish-Covers, Dish-Handles, Dish-Heating Stands, Dish-Stands, Dishes, Dressing-Bag Fittings, Egg-Boilers, Egg-Cups, Egg-Cutters, Egg-Frames, Entrée-Dishes, Fern-Pots, Fish Dishes and Plates, Fish-Eating Knives and Forks, Fish-Servers, Flasks, Flower-Bowls, Flower-Vases, Fruit-Baskets, Fruit-Stands, Game-Carvers, Glass-Holders, Goblets, Gongs, Grape-Stands, Gravy-Boats, Hair-Brushes, Hairpin-Boxes, Hairpin-Tubes, Hatpin-Stands, Hat-Whisks, Hot-Plate Stands, Ice-Pails, Ice-Picks, Ink-Bottles, Inkstands, Jam-Dishes, Jam-Pots, Jugs, Kettles and Stands, Knife-Rests, Labels, Ladies' Toilet Sets, Ladles, Lemon-Squeezers, Liqueur-Bottles, Liqueur Sets, Liqueur-Frames, Lobster-Crachs, Lobster-Picks, Loving-Cups, Manicure Sets, Marmalade-Jars, Marrow-Scoops, Match-Boxes, Match-Stands, Meat-Covers, Meat-Dishes, Menu-Holders, Mirror-Mountings, Monograms, Muffin-Dishes, Mufineers, Mugs, Mustard-Pots, Napkin-Rings, Night-Light Holders; Nutcrackers, Nut Picks and Peelers; Oil and Vinegar Frames, Communion-Patens, Pepper-Mills, Peppers, Photo-Frames, Pickle-Frames, Pie-Dishes, Pie-Servers, Pin-Boxes, Pincushions, Plaques, Plates, Plate-Cabinets, Plate-Covers, Powder-Jars, Presentation-Bowls, Presentation-Caskets, Presentation-Cups, Presentation-Shields, Presentation-Spades, Prize-Cups, Ramekin-Pans, Ring-Stands, Rose-Bowls, Salad-Bowls, Salad-Servers, Salt-Cellars, Salt-Bottles, Salvers, Sandwich-Boxes, Sardine-Boxes, Sardine-Servers, Sauce-Boats, Sauce-Bottle Mounts, Sauce-Frames, Sauce-Tureens, Scent-Bottles, Shaving-Sets, Shoe-Lifts, Skewers, Soufflet-Dishes, Soup-Bowls, Soup-Tureens, Soup-Turnovers, Coin-Purses, Spoons and Forks, Spoon-Warmers, Statuettes; Sugar Basins, Baskets, and Bowls; Sugar and Cream Frames, Sugar-Dredgers, Sugar-Sifters, Sugar-Tongs, Siphon-Stands, Tankards, Taper-Sticks, Tart-Servers, Tea-Caddies, Tea-kettles, Tea-Pots and Sets, Tea-Strainers, Toast-Racks, Tobacco-Boxes, Toilet Sets, Toilet Ware, Trays, Trinket-Boxes, Trowels, Tumbler-Holders, Waiters, Watch-Stands, Wine-Bottle Holders, Wine-Coolers, Wine-Funnels, Wine-Strainers, All Made of Sterling Silver or Plated Electrically with Precious Metals.

Claims use since March, 1913.

Ser. No. 146,794. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) H. R. COLWELL, Washington, D. C. Filed Apr. 27, 1921.



Particular description of goods.—Toy Animals, Toy Balloons, and Barking or Sounding Toys.

Claims use since Apr. 26, 1921.

Ser. No. 146,816. (CLASS 39. CLOTHING.) THE CARTERSVILLE MILLS, INC., Cartersville, Ga. Filed Apr. 27, 1921.

"Laddie"

Particular description of goods.—Boys' Union-Suits of Knitted Fabrics.

Claims use since January, 1921.

Ser. No. 146,858. (CLASS 39. CLOTHING.) LOUIS MARK, Philadelphia, Pa. Filed Apr. 27, 1921.

THE LOUIS MARK SHOES OF QUALITY

No claim being made to the words "The Shoes of Quality" apart from the mark shown in the drawing.

Particular description of goods.—Shoes of Leather, Fabric, and Combinations of Leather and Fabrics.

Claims use since about Mar. 16, 1920.

Ser. No. 146,874. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA PRUNE AND APRICOT GROWERS, INC., San Jose, Calif. Filed Apr. 28, 1921.



Particular description of goods.—Dried and Canned Fruits, Fruit Butter, and Fruit Jam.

Claims use since July 10, 1917.

Ser. No. 146,906. (CLASS 39. CLOTHING.) W. T. GRANT CO., New York, N. Y. Filed Apr. 28, 1921.

Little Wonder

Consisting of the words "Little Wonder."

Particular description of goods.—Children's Underwaists.

Claims use since about Jan. 2, 1918.

Ser. No. 147,016. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) H. G. DAHL, Oakland, Calif. Filed Apr. 30, 1921.

JOLLY TAR

Particular description of goods.—Soap.

Claims use since Feb. 23, 1921.

Ser. No. 147,017. (CLASS 37. PAPER AND STATIONERY.) HENRY EDMONDS, Westminster, London, England. Filed Apr. 30, 1921.

HYDROLOID

Particular description of goods.—Printing-Paper, Writing-Paper, Wrapping-Paper, Blotting-Paper, Copying-Paper, Cover-Paper, Drawing-Paper, Tracing-Paper, and Toilet-Paper.

Claims use since Jan. 17, 1921.

Ser. No. 147,018. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FASSERA & GROFFRIO, Detroit, Mich. Filed Apr. 30, 1921.



No claim being made to the word "Coffee" apart from the other features of the mark shown on the drawing, the picture of the person shown in the drawing being fanciful.

Particular description of goods.—Coffee.

Claims use since Apr. 7, 1921.

Ser. No. 147,024. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NICLES HARDWARE, Manchester, N. H. Filed Apr. 30, 1921.

ALL-IN-ONE CREAM



The portrait appearing on the drawing is a portrait of the applicant. No claim is made to the word "Cream" other than when associated with the remaining features of the mark as shown in the drawing.

Particular description of goods.—Face-Cream.

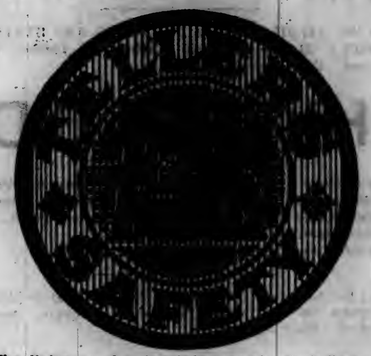
Claims use since Feb. 1, 1921.

Ser. No. 147,089. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WALLACE MILLING COMPANY, Dale, Ind. Filed Apr. 30, 1921.

WAMICO

Particular description of goods.—Wheat-Flour.
Claims use since 1913.

Ser. No. 147,099. (CLASS 37. PAPER AND STATIONERY.) THE FORMAN BASSETT COMPANY, Cleveland, Ohio. Filed May 2, 1921.



The lining on drawing being merely shade-lines and not denoting color, no claim being made to the word "Safety" apart from the mark as shown.
Particular description of goods.—Safety-Paper.
Claims use since Apr. 28, 1921.

Ser. No. 147,175. (CLASS 39. CLOTHING.) WIMEBACHER & RICE, New York, N. Y. Filed May 3, 1921.

PERSHING PS SQUARE

Particular description of goods.—Leather and Fabric Gloves.
Claims use since July 1, 1920.

Ser. No. 147,177. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN SUGAR PRODUCTS CORPORATION, Los Angeles, Calif. Filed May 4, 1921.

SILVERKIST Syrup

The use of the word "Syrup" apart from the mark as shown being disclaimed.
Particular description of goods.—Table Syrup.
Claims use since Feb. 1, 1920.

Ser. No. 147,187. (CLASS 39. CLOTHING.) THE CROWN CORSET COMPANY, New York, N. Y. Filed May 4, 1921.

"GIBRALTAR"

Particular description of goods.—Corsets.
Claims use since about Dec. 22, 1920.

Ser. No. 147,238. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DAVID GOLDENBERG, Philadelphia, Pa. Filed May 5, 1921.



No claim being made to the words "Tres Bien" apart from the trade-mark as shown.
Particular description of goods.—Candy.
Claims use since March, 1920.

Ser. No. 147,246. (CLASS 39. CLOTHING.) LAMM BROTHERS, Baltimore, Md. Filed May 5, 1921.

Lamm

Comprising the name "Lamm" as written by Jacob C. Lamm, one of the firm.
Particular description of goods.—Men's and Boys' Coats, Pants, and Vests, Including Long and Short Pants, Ladies' Suits, Divided Skirts, and Ladies' Riding Breeches.
Claims use since May, 1910.

Ser. No. 147,247. (CLASS 39. CLOTHING.) LAMM BROTHERS, Baltimore, Md. Filed May 5, 1921.



Particular description of goods.—Men's and Boys' Coats, Vests, and Pants, Including Long and Short Pants, Ladies' Suits, Divided Skirts, and Riding-Breeches.
Claims use since May, 1910.

Ser. No. 147,248. (CLASS 39. CLOTHING.) LAMM BROTHERS, Baltimore, Md. Filed May 5, 1921.

LamKord

Particular description of goods.—Men's and Boys' Coats, Pants, and Vests, Including Long and Short Pants, Ladies' Suits, Divided Skirts, and Riding-Breeches.
Claims use since May, 1919.

Ser. No. 147,249. (CLASS 39. CLOTHING.) LAMM BROTHERS, Baltimore, Md. Filed May 5, 1921.

LamKool

Particular description of goods.—Men's and Boys' Coats, Pants, and Vests, Including Long and Short Pants, Ladies' Suits, Divided Skirts, and Ladies' Riding-Breeches.
Claims use since October, 1919.

Ser. No. 147,281. (CLASS 39. CLOTHING.) CADET KNITTING COMPANY, Philadelphia, Pa. Filed May 6, 1921.

2920

Particular description of goods.—Hosiery.
Claims use since 1919.

Ser. No. 147,339. (CLASS 39. CLOTHING.) CADET KNITTING COMPANY, Philadelphia, Pa. Filed May 7, 1921.

920

Particular description of goods.—Hosiery.
Claims use since 1919.

Ser. No. 147,395. (CLASS 39. CLOTHING.) BROWN SHOE COMPANY, INC., St. Louis, Mo. Filed May 9, 1921.

BROWNKINS

Particular description of goods.—Shoes for Children, Made of Canvas and Leather.
Claims use since Mar. 30, 1921.

Ser. No. 147,494. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) ABRAMOVITZ & SCHWARTZ, New York, N. Y. Filed May 10, 1921.

A & S UNBREAKABLE TRUNKS

No claim made herein to the words "Unbreakable Trunks" apart from the mark shown in the drawing, which is suitably lined to indicate the color red.
Particular description of goods.—Trunks.
Claims use since May, 1920.

Ser. No. 147,555. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE "DYNAMO" TULLE IMPORTING CO., New York, N. Y. Filed May 11, 1921.



The word "Brand" is disclaimed when used apart from the mark shown.
Particular description of goods.—Tulles, Muslins, Crepes, and Silks in the Piece, Veils, and Veilings and Nettings in the Piece.
Claims use since May 2, 1921.

Ser. No. 147,619. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Howes' Laboratories, Milford, Conn. Filed May 12, 1921.



Particular description of goods.—Pharmaceutical Preparation—Kamedy, Howes' Rheumatic Tablets.
Claims use since Apr. 1, 1919.

Ser. No. 147,622. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) [illegible] New York, Ltd., New York, N. Y. Filed May 12, 1921.

CAMPHOLOID

Consisting of the word "Campholoid."
Particular description of goods.—Sheets, Tubes, and Rods Composed of a Mixture of Nitrocellulose and Camphor.
Claims use since Apr. 11, 1921.

Ser. No. 147,657. (CLASS 37. PAPER AND STATIONERY.) Farron S. Betts, Brooklyn, N. Y. Filed May 13, 1921.



Applicant hereby disclaims the exclusive right to the use of the word "Albums" apart from the mark shown in the drawing.
Particular description of goods.—Various Kinds of Albums — Namely, Photograph, Postal-Card, Scrap, Souvenir, and Autograph Albums.
Claims use since Jan. 1, 1912.

Ser. No. 147,705. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) George Barthelmie, West Hammond, Ill. Filed May 14, 1921.



No claim is made to the exclusive use of the words "Brown Crust" apart from the mark shown in the drawing.
Particular description of goods.—Bread.
Claims use since July 1, 1920.

Ser. No. 147,721. (CLASS 2. RECEPTACLES.) Wm. E. Hooper & Sons Co., Baltimore, Md. Filed May 14, 1921.



Particular description of goods.—Canvas Mail-Sacks, Coal-Bags, Letter-Carrier Pouches, Coin-Sacks, Sand-Bags, Ballast-Bags, Dye-Bags, Orange-Pickers' Bags, Sugar-Bags, Water-Buckets, Oil-Press Bags, Newsboys' Delivery-Bags, Clothes-Bags, Haversacks, Ration-Bags, and Canvas Sacks.
Claims use since Apr. 10, 1905.

Ser. No. 147,722. (CLASS 7. CORDAGE.) Wm. E. Hooper & Sons Co., Baltimore, Md. Filed May 14, 1921.



Particular description of goods.—Cotton Rope, Sash-Cord, Seine-Twines, Polished Twines, Braided Cotton Rope, Wrapping-Cord, Braided Cord, Cabled Rope, Wrapping-Twine, Cabled Cord, Twister-Bands, Twisted Cotton Roping, Nautical Log-Lines.
Claims use since Apr. 10, 1905.

Ser. No. 147,775. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) [illegible] C. Fassnacht Co., Orlando, Fla. Filed May 16, 1921.



Particular description of goods.—Fresh Citrus Fruits.
Claims use since Sept. 20, 1920.

Ser. No. 147,822. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) The Fleischmann Company, Cincinnati, Ohio, and New York, N. Y. Filed May 17, 1921. Under ten-year proviso.

FLEISCHMANN'S

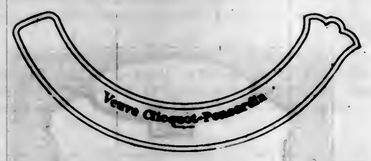
Particular description of goods.—Compressed Yeast and Yeast Mixtures Adapted for Food Alone or for Use in the Making of Bread and Breadstuffs or other Food Products.
Claims use since Jan. 1, 1876.

Ser. No. 147,938. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Manufacturing Company of America, Philadelphia, Pa. Filed May 19, 1921.

ARCTIC

Particular description of goods.—Candy.
Claims use since about Nov. 13, 1906.

Ser. No. 148,003. (CLASS 47. WINES.) Werle et Compagnie, Rheims, France. Filed May 20, 1921. Under ten-year proviso.



Particular description of goods.—Champagne-Wines.
Claims use since 1850.

Ser. No. 148,005. (CLASS 47. WINES.) Werle et Compagnie, Rheims, France. Filed May 20, 1921. Under ten-year proviso.



Particular description of goods.—Champagne-Wines.
Claims use since 1850.

Ser. No. 148,194. (CLASS 37. PAPER AND STATIONERY.) Albemarle Paper Mfg. Co., Richmond, Va. Filed May 25, 1921.

DIXIE
KRAFT

No claim being made to the word "Kraft" apart from the mark shown.
Particular description of goods.—Kraft and Manila Wrapping, Blotting, Bond-Paper for Letter Correspondence, Writing and Tissue Paper.
Claims use since Mar. 1, 1921.

Ser. No. 148,232. CLASS 46. FOODS AND INGREDIENTS OF FOODS.) John Snadden McGowan, Orange, N. J. Filed May 25, 1921.

ARNAISE

Particular description of goods.—Mayonnaise Dressing, Olive Mayonnaise, and Russian Dressing.
Claims use since May 16, 1921.

Ser. No. 148,276. (CLASS 37. PAPER AND STATIONERY.) Hamilton Card & Paper House, Inc., New York, N. Y. Filed May 26, 1921.

MACCABEE

Particular description of goods.—Bond-Paper for Writing and Printing Purposes.
Claims use since July 22, 1918.

Ser. No. 148,349. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) Millard H. Recktenwalt, Buffalo, N. Y. Filed May 27, 1921.



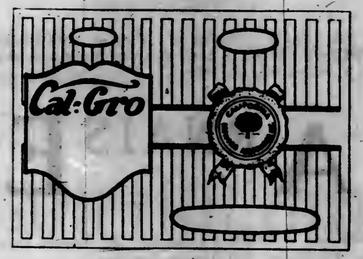
Particular description of goods.—Fire-Maker Consisting of Thong, Tinder, Socket-Drill, Bow, and Fire-Board.
Claims use since Mar. 1, 1921.

Ser. No. 148,404. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SPENCE MINOR STEPHENS, Lakeland, Fla. Filed May 28, 1921.

GREYMOSS GROVE

Particular description of goods.—Fresh Citrus Fruits.
Claims use since 1897.

Ser. No. 148,718. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA GROWERS ASSOCIATION, INC., Los Angeles, Calif. Filed June 6, 1921.



Particular description of goods.—Canned Fruits, Fruit Butter, Olive-Oil, Dried Fruits, Honey, Fruit Preserves, Fruit Jam, and Canned Vegetables.
Claims use since Apr. 12, 1920.

Ser. No. 148,974. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE COLORADO MILLING & ELEVATOR COMPANY, Denver and Eaton, Colo. Filed June 11, 1921.

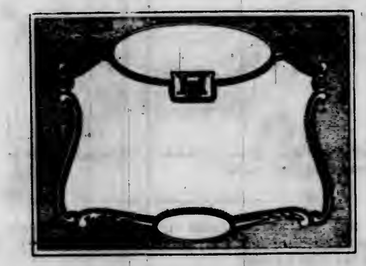
FEATHERWEIGHT



The picture in the drawing being fanciful.
Particular description of goods.—Wheat-Flour.
Claims use since Mar. 12, 1921.

Ser. No. 148,984. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE ELECTRIC SMELTING & ALUMINUM CO. INC., Lockport, N. Y. Filed June 11, 1921.

ESCOLITE



The border portion of the design is shaded in the drawing to indicate that the same is blue.
Particular description of goods.—House-Paints for General Use, Paint for Iron and Steel, Paint for Galvanised Iron and Steel, Paint for Structural Steel, Paint for Coating Metal, Paint for Neutralising the Film of Zinc Chlorid Upon Galvanised Iron and Steel, Rust-Resisting Paint for Coating Metal, Heat-Resisting Paint for Coating Metal, Acid-Resisting Paint, Paint for Preserving Wood, Fireproof Paint for Wood, Paint for Hot Surfaces; Paints in Various Colors for Foundation and Finishing Coats on Wood, Brick, Concrete, Stucco, Plaster, Metal, and Wall-Board; Waterproof Paint and Compound for Concrete, Plaster, Stucco, Masonry, and Brick Surfaces; Liquid Paint for Plaster, Concrete, Stucco, and Masonry Surfaces; Paints for Coating Shingles, Dry Colors, Red-Lead Paints, Colors in Oil, Ready-Mixed Paints and Enamel Paints.
Claims use since March, 1921.

Ser. No. 148,995. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE GOHEEN CORPORATION, Wilmington, Del., and Newark, N. J. Filed June 11, 1921.

The border portion of the design is shaded in the drawing to indicate that the same is blue.
Particular description of goods.—House-Paints for General Use, Paint for Iron and Steel, Paint for Galvanised Iron and Steel, Paint for Structural Steel, Paint for Coating Metal, Paint for Neutralising the Film of Zinc Chlorid Upon Galvanised Iron and Steel, Rust-Resisting Paint for Coating Metal, Heat-Resisting Paint for Coating Metal, Acid-Resisting Paint, Paint for Preserving Wood, Fireproof Paint for Wood, Paint for Hot Surfaces; Paints in Various Colors for Foundation and Finishing Coats on Wood, Brick, Concrete, Stucco, Plaster, Metal, and Wall-Board; Waterproof Paint and Compound for Concrete, Plaster, Stucco, Masonry, and Brick Surfaces; Liquid Paint for Plaster, Concrete, Stucco, and Masonry Surfaces; Paints for Coating Shingles, Dry Colors, Red-Lead Paints, Colors in Oil, Ready-Mixed Paints and Enamel Paints.
Claims use since March, 1921.

Ser. No. 149,023. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa. Filed June 11, 1921.

Proof Products

No claim being made to the word "Products" apart from the mark shown in the drawing.
Particular description of goods.—Liquid and Paste Paints, Enamels, Varnishes, and Paint-Protective Coatings.
Claims use since Jan. 1, 1921.

Ser. No. 149,123. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANNA G. BROWNING, Philadelphia, Pa. Filed June 14, 1921.

Walter C. Browning M.D.

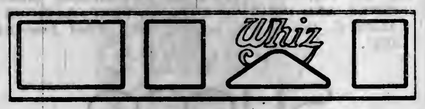
Trade-mark is the autograph signature of said Walter C. Browning, M. D.
Particular description of goods.—Antiferment-Tablets for Stomachic and Intestinal Indigestion, Catarrh and Hay-Fever Treatment, Cold-Medicine; External Ointment for Cuts, Burns, Ulcers, Infections, and Inflammations; Home Natural Treatment for Women for Uterine Diseases, Laxative Tablets, Liniment for Neuralgia, Rheumatism, Sprains and Bruises, Pile-Ointment, and Tonic for Nerves, Liver, Stomach, and Intestinal Tract.
Claims use since about Jan. 10, 1905.

Ser. No. 149,134. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE R. M. HOLLINGSHEAD CO., Camden, N. J. Filed June 14, 1921.



Particular description of goods.—Metal-Polish, Nickel-Polish, Reflector-Polish, Silver-Polish, Stove-Polish, Oil-Soap, Roadside Hand-Cleaner, Valve-Grinding Compound, and Glass-Cleaning Paste.
Claims use since about Apr. 1, 1920.

Ser. No. 149,137. (CLASS 7. CORDAGE.) THE R. M. HOLLINGSHEAD CO., Camden, N. J. Filed June 14, 1921.



Particular description of goods.—Gear-Grease, Cup-Grease, Graphite Grease, Magneto-Oil, Spring-Leaf Lubricator, and Sewing-Machine Oil.
Claims use since about Apr. 1, 1920.

Ser. No. 149,167. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BONOVIN, LIMITED, Liverpool, England. Filed June 15, 1921.

VIVO

Particular description of goods.—Malt Food.
Claims use since Feb. 8, 1890.

Ser. No. 149,174. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE DAYTON RUBBER MANUFACTURING CO., Dayton, Ohio. Filed June 15, 1921.

THOROBRED

Particular description of goods.—Rubber Tires and Tubes.
Claims use since 1915.

Ser. No. 149,194. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) EDWARD J. KRUEGER, Milwaukee, Wis. Filed June 15, 1921.

Uneedit

Particular description of goods.—Ventilating Chimney-Cowls.
Claims use since June 3, 1921.

Ser. No. 149,217. (CLASS 15. OILS AND GREASES.) EAGLE CANDLE CO., Brooklyn, N. Y. Filed June 16, 1921.



The following words and expressions are disclaimed apart from the mark shown on the drawing: "Best Modern Safety Candle," "Smokeless," "Odorless," "Economical," "Sanitary," "Lights," "Made by," "Trade Mark," and "77 Woodhull St., Brooklyn, N. Y."
Particular description of goods.—Candles.
Claims use since about Nov. 15, 1920.

Ser. No. 149,259. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN UNIVERSAL COFFEE COMPANY, Dallas, Tex. Filed June 17, 1921.

METROPOLITAN OPERA

Particular description of goods.—Coffee.
Claims use since Jan. 15, 1921.

Ser. No. 149,260. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN UNIVERSAL COFFEE COMPANY, Dallas, Tex. Filed June 17, 1921.

Guatemala Trovatore

Particular description of goods.—Coffee.
Claims use since Jan. 15, 1921.

Ser. No. 149,298. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SHELBY SUPPLY & MANUFACTURING COMPANY, Shelby, Ohio. Filed June 17, 1921.

Campfire-mints

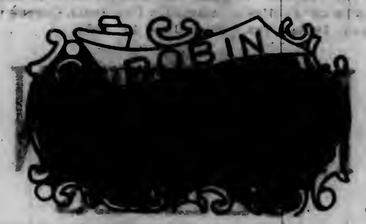
Particular description of goods.—Candy Mints.
Claims use since Feb. 15, 1921.

Ser. No. 149,361. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FREDERICK STEARNS & COMPANY, Detroit, Mich. Filed June 18, 1921.

CODAMINES

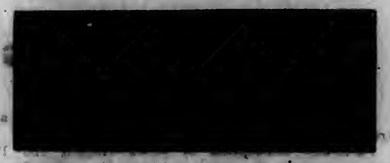
Particular description of goods.—Medicine Useful in Conditions Resulting from Faulty Diet and Vitamin Deficiency.
Claims use since June 8, 1921.

Ser. No. 149,373. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOMER D. BURNETT, Shinnston, W. Va. Filed June 20, 1921.



Particular description of goods.—Corn-Salve.
Claims use since January, 1921.

Ser. No. 149,395. (CLASS 40. MERCHANDISE NOT OTHERWISE CLASSIFIED.) HERBERT J. GEIST, New York, N. Y. Filed June 20, 1921.



Particular description of goods.—Outing Outfits for Camping and Picnicking Parties and the Like, Consisting of Cardboard Boxes Containing Wax-Paper, Paper Cups, Paper Plates, Paper Napkins, Paper Spoons, Paper Table-Covers, Paper Towels, Paper Bags, Tissue-Paper, Egg-Cartons, Twine, and Wrapping-Paper.
Claims use since May 1, 1921.

Ser. No. 149,493. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) UNIQUE ART MANUFACTURING CO., Newark, N. J. Filed June 21, 1921.

JAZZBO-JIM

Particular description of goods.—A Mechanical Toy Known as a Dancing Figure.
Claims use since May 12, 1921.

Ser. No. 149,495. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) W. B. WHEELER CORPORATION, New York, N. Y. Filed June 21, 1921.

FLEXIDEAL

Particular description of goods.—A Matrix or Dry Mat Used in Stereotyping and Electroplating.
Claims use since June 14, 1921.

Ser. No. 149,525. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) SAMSTAG & HILDER BROS., New York, N. Y. Filed June 22, 1921.

Fashionette

Particular description of goods.—Wire Hairpins.
Claims use since June 2, 1921.

Ser. No. 149,586. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALICE G. GOMILLION, Lonoke, Ark. Filed June 24, 1921.

SUCCO

Particular description of goods.—An Ointment for Treating the Scalp.
Claims use since 1918.

Ser. No. 149,645. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JOHN MARTIN'S HOUSE, INC., New York, N. Y. Filed June 25, 1921.

John Martin

Particular description of goods.—Doll-Forms, Stuffed Toy Figures, and other Toys and Games for Children, (Exclusive of Sporting Goods.)
Claims use since June 9, 1921.

Ser. No. 149,663. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN WANAMAKER, New York, New York, N. Y. Filed June 25, 1921.



Particular description of goods.—Perfumes, Sachets, Toilet Waters, Face-Powders, and Talcum Powders.
Claims use since Feb. 5, 1909.

Ser. No. 149,665. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN WANAMAKER, New York, New York, N. Y. Filed June 25, 1921.



Particular description of goods.—Perfumes, Sachets, Toilet Waters, Face-Powders, and Talcum Powders.
Claims use since Feb. 5, 1909.

Ser. No. 149,691. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EAST AND WEST TRADING CORPORATION, New York, N. Y. Filed June 27, 1921.

My Butterfly

Particular description of goods.—Henna Shampoo.
Claims use since December, 1920.

Ser. No. 149,707. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN H. MOWERY, Cincinnati, Ohio. Filed June 27, 1921.

BALM PYORRHOLYTIC

No claim being made to the word "Balm" apart from the mark shown in the drawing.
Particular description of goods.—A Balm to be Used for the Gums in the Treatment of Pyorrhea in Its Primary and Advanced Stages.
Claims use since Dec. 1, 1920.

Ser. No. 149,717. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LENA O. NODSLE, Fort Leavenworth, Kans. Filed June 27, 1921.

LONPOO



Particular description of goods.—Shampoo.
Claims use since Mar. 20, 1921.

Ser. No. 149,751. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM A. HOOKS, Atlanta, Ga. Filed June 28, 1921.



Particular description of goods.—A Preparation for Treatment of Nervousness, Sleeplessness, and General Debility.
Claims use since May 23, 1921.

Ser. No. 149,758. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. KELLOGG & SONS, Philadelphia, Pa. Filed June 28, 1921.



No claim being made to the words "The Sign of Quality" apart from the mark shown.
Particular description of goods.—Canned Fruits, Canned Vegetables, Coffee, Jams, Jellies, Apple Sauce, Celery-Salt; Canned Poultry—Namely, Boned Chicken; Chilli Sauce, Chow-Chow; Sea Foods—Namely, Crab-Meat, Lobster, and Shrimp; Canned Fish—Namely, Salmon, Shad-Roe, Tuna Fish, Anchovy Paste, and Bloater Paste; Canned Meats—Namely, Lamb's Tongue, Ox-Tongue, and Sliced Ox-Tongue; Filled Dates, Washed and Filled Figs, Guava Jelly, Table-Syrup and Molasses, Maple-Syrup, Mayonnaise, Naise Made of Olives, Pimentoes and Peppers with Olive-Oil; Mince-Meat, Olives, Onion Seasoning, Paprika, Peanut-Butter, Dried and Evaporated Fruits, Tartar Sauce, Spices, Canned Berries, Orange Marmalade, Fruit Preserves, Alimentary Paste Products, Vinegar, Pickles, and Catsup.
Claims use since June, 1917.

Ser. No. 149,775. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE REFINO COMPANY, Denver, Colo. Filed June 28, 1921.



Particular description of goods.—Gasolene and Fuel Energiser.
Claims use since Jan. 15, 1921.

Ser. No. 149,776. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE REFINO COMPANY, Denver, Colo. Filed June 28, 1921.

REFINO
GAS RAFFINEUR

No claim being made to the words "Gas Raffineur" apart from the mark shown.
Particular description of goods.—Gasolene and Fuel Energiser.
Claims use since Jan. 15, 1921.

Ser. No. 149,777. (CLASS 15. OILS AND GREASES.) REDMOND & BRAMLEY OIL CO., INC., New York, N. Y. Filed June 28, 1921.

MOTOZEST

Particular description of goods.—Fuel for Internal-Combustion Engines.
Claims use since about June 15, 1921.

Ser. No. 149,782. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) AMES HARRIS NEVILLE CO., San Francisco, Calif. Filed June 29, 1921.



Particular description of goods.—Tents.
Claims use since May 25, 1921.

Ser. No. 149,804. (CLASS 2. RECEPTACLES.) ALEXANDER HERR, New York, N. Y. Filed June 29, 1921.



Particular description of goods.—Merchandise-Envelops.
Claims use since about May 1, 1920.

Ser. No. 149,822. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANISLAW SLOMA, Depew, N. Y. Filed June 29, 1921.



Particular description of goods.—A Palliative for Throat Diseases and Malignant Growths in Throat.
Claims use since about Jan. 1, 1921.

Ser. No. 150,011. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) JOHN W. HOWLAND, Middleton, Idaho. Filed July 5, 1921.

O.O.D.

Particular description of goods.—Ready-Mixed Paints.
Claims use since June 1, 1921.

Ser. No. 150,031. (CLASS 38. PRINTS AND PUBLICATIONS.) LOYAL DEXTER ROGERS, Chicago, Ill. Filed July 5, 1921.

AUTO-HEMIC THERAPY

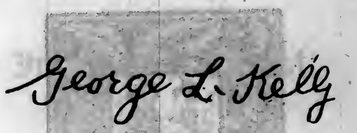
Particular description of goods.—A Series of Bulletins Issued from Time to Time.
Claims use since June 16, 1921.

Ser. No. 150,068. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) HUDSON LEATHER COMPANY, Albany, N. Y. Filed July 6, 1921.



Particular description of goods.—All Classes of Leather.
Claims use since Oct. 13, 1920.

Ser. No. 150,107. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HILLERICH & BRADSBY CO., INC., Louisville, Ky. Filed July 7, 1921.



Being a facsimile of the signature of Geo. L. Kelly.
Particular description of goods.—Baseball-Bats.
Claims use since Oct. 25, 1920.

Ser. No. 150,160. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, Cincinnati, Ohio. Filed July 8, 1921.

AUTOMOBILE

Particular description of goods.—Playing-Cards.
Claims use since about 1900.

Ser. No. 150,161. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, Cincinnati, Ohio. Filed July 8, 1921.



The center panel comprising a winged wheel and lantern.
Particular description of goods.—Playing-Cards.
Claims use since about 1906.

Ser. No. 150,162. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, Cincinnati, Ohio. Filed July 8, 1921.



Particular description of goods.—Playing Cards.
Claims use since about 1888.

Ser. No. 150,166. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, Cincinnati, Ohio. Filed July 8, 1921.



Particular description of goods.—Playing Cards.
Claims use since about 1885.

Ser. No. 150,168. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, Cincinnati, Ohio. Filed July 8, 1921.

808

Particular description of goods.—Playing Cards.
Claims use since about 1885.

Ser. No. 150,169. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, Cincinnati, Ohio. Filed July 8, 1921.



Particular description of goods.—Playing Cards.
Claims use since about 1895.

Ser. No. 150,194. (CLASS 2. RECEPTACLES.) J. W. HOODWIN COMPANY, Chicago, Ill. Filed July 9, 1921.

SURVITOR

Particular description of goods.—Tray for Ice-Cream Cones.
Claims use since June 15, 1921.

Ser. No. 150,378. (CLASS 7. CORDAGE.) TRIBBLE CORDAGE MILLS, INC., Boston, Mass. Filed July 14, 1921.

BEAUTY

Particular description of goods.—Clotheslines.
Claims use since on or about Nov. 8, 1916.

Ser. No. 150,379. (CLASS 7. CORDAGE.) TRIBBLE CORDAGE MILLS, INC., Boston, Mass. Filed July 14, 1921.

MASCOT

Particular description of goods.—Clotheslines.
Claims use since on or about Jan. 1, 1901.

Ser. No. 150,385. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) AMERICAN CELLUTEX CORPORATION, New York, N. Y. Filed July 15, 1921.

CELLUTEX

Particular description of goods.—Pyroxylin Sheet Material, Rods, and Tubing.
Claims use since Apr. 25, 1921.

Ser. No. 150,454. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) PAUL H. LEVY, Baltimore, Md. Filed July 16, 1921.

SMISER

Particular description of goods.—Game-Boards.
Claims use since July 2, 1921.

Ser. No. 150,459. (CLASS 38. PRINTS AND PUBLICATIONS.) THE MAGAZINE CORPORATION, Indianapolis, Ind., and New York, N. Y. Filed July 16, 1921.

Fimplay

Particular description of goods.—A Monthly Magazine Publication.
Claims use since May 15, 1921.

Ser. No. 150,490. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) WILLIAM B. STARKLOFF, Baltimore, Md. Filed July 16, 1921.

MONUMENTAL



Particular description of goods.—Awnings, Tents, Flags, and Tarpaulins.
Claims use since on or about Mar. 1, 1920.

Ser. No. 150,511. (CLASS 38. PRINTS AND PUBLICATIONS.) CENTRAL BOND & MORTGAGE CO., Chicago, Ill. Filed July 18, 1921.

The Central Investors' Digest

Particular description of goods.—A Publication Issued Monthly.
Claims use since June 1, 1921.

Ser. No. 150,586. (CLASS 2. RECEPTACLES.) ANTHES FORCE OILER COMPANY, Fort Madison, Iowa. Filed July 19, 1921.

forzoil

Particular description of goods.—Oil-Cans.
Claims use since Feb. 20, 1921.

Ser. No. 150,658. (CLASS 7. CORDAGE.) CALIFORNIA COTTON MILLS COMPANY, Oakland, Calif. Filed July 20, 1921.

Imperi

Particular description of goods.—Cotton, Hemp, Flax, and Jute Ropes and Cord and Twines.
Claims use since Nov. 20, 1914.

Ser. No. 150,786. (CLASS 38. PRINTS AND PUBLICATIONS.) UNITED PHONOGRAPH STORES INC., New York, N. Y. Filed July 21, 1921.

PHONOGRAPH STORES

Particular description of goods.—Printed Copies of Musical Compositions.
Claims use since June 1, 1921.

Ser. No. 150,863. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) IRVIN-SMITH COMPANY, INC., Chicago, Ill. Filed July 23, 1921.

COOTIE GAME
JUNIOR

No claim is made to the word "Game" apart from the remaining words of the mark shown in the drawing.
Particular description of goods.—Box Parlor Games.
Claims use since on or about June 15, 1921.

Ser. No. 150,868. (CLASS 5. ADHESIVES.) SIDNEY LOOE & SONS, Philadelphia, Pa. Filed July 23, 1921.

PARALAC

Consisting of the word "Paralac."
Particular description of goods.—Adhesive Cements.
Claims use since about Mar. 15, 1919.

Ser. No. 151,067. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE SWINGRITE CO., INC., Providence, R. I. Filed July 28, 1921.

SWINGRITE

Particular description of goods.—Golf-Stroke-Guiding Device.
Claims use since January, 1921.

Ser. No. 151,080. (CLASS 38. PRINTS AND PUBLICATIONS.) FIELD & STREAM PUBLISHING COMPANY, New York, N. Y. Filed July 29, 1921.

Vacation Manual

Particular description of goods.—An Annual Periodical.
Claims use since March, 1920.

Ser. No. 151,136. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WECHSLER BARBER SILK CO. INC., New York, N. Y. Filed July 29, 1921.

DANELLA

Particular description of goods.—Silk and Silk-Mixture Fabrics in the Piece.
Claims use since about July 1, 1921.

Ser. No. 151,267. (CLASS 7. CORDAGE.) CALIFORNIA COTTON MILLS COMPANY, Oakland, Calif. Filed Aug. 2, 1921.

CALCOT

Particular description of goods.—Twines of All Kinds in Cotton, Hemp, Flax, and Jute.
Claims use since Nov. 20, 1914.

Ser. No. 151,325. (CLASS 7. CORDAGE.) MASSASOIT MANUFACTURING COMPANY, Fall River, Mass. Filed Aug. 3, 1921.

Masco

Particular description of goods.—Clotheslines.
Claims use since July 21, 1920.

Ser. No. 151,373. (CLASS 15. OILS AND GREASES.) PANAMA LUBRICANTS COMPANY, Los Angeles, Calif. Filed Aug. 4, 1921.

PENNZITE

Particular description of goods.—Mineral Greases Used for Lubricating Bearings and Transmissions.
Claims use since July 1, 1921.

Ser. No. 151,446. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE BANNER SILK KNITTING MILLS, INC., New York, N. Y. Filed Aug. 5, 1921.

KrepeKnit

Particular description of goods.—Textile Fabrics—Namely, Fiber-Silk Jersey.
Claims use since July 1, 1921.

Ser. No. 151,475. (CLASS 15. OILS AND GREASES.) PENN PETROLEUM AND SUPPLY COMPANY, Wilmington, Del., and Philadelphia, Pa. Filed Aug. 5, 1921.

PETRO-LARD

No claim being made to the word "Lard" apart from the composition "Petro-Lard" as shown on the drawing.
Particular description of goods.—Lubricating-Oils for Use in the Operation of Cutting Metals.
Claims use since Nov. 15, 1915.

Ser. No. 151,633. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) MALT-DIASTASE COMPANY, New York, N. Y. Filed Aug. 10, 1921.

MALT-a-VITA

Particular description of goods.—Concentrated Liquid Malt Extracts.
Claims use since Aug. 1, 1921.

Ser. No. 151,750. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Aug. 13, 1921.

Wrapseal

Particular description of goods.—Pile Fabrics in the Piece.
Claims use since June 1, 1921.

Ser. No. 151,783. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MORTON E. CONVERSE AND SON CO., Winchendon, Mass. Filed Aug. 15, 1921.

Hobby-Ho

Particular description of goods.—Knockdown Children's Horses.
Claims use since Aug. 1, 1921.

Ser. No. 151,805. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) MONARCH LEATHER COMPANY, Chicago, Ill. Filed Aug. 15, 1921.

EDINBROGUE

Particular description of goods.—Leather.
Claims use since July 15, 1921.

Ser. No. 151,900. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COTT-A-LAP COMPANY, Somerville, N. J. Filed Aug. 18, 1921.

Cott a Lap

Particular description of goods.—Floor-Coverings Composed of Fibrous Material Saturated or Coated with Waterproof Substance.
Claims use since July 1, 1919.

Ser. No. 151,939. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) N. ERLANGER, BLUMOART & CO. INC., New York, N. Y. Filed Aug. 19, 1921.

EARLBLOOM

Particular description of goods.—Piece Goods Made of Cotton, Artificial Silk, and Silk, and Combinations Thereof.
Claims use since June, 1921.

Ser. No. 152,004. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE EDWARDS MANUFACTURING CO., Cincinnati, Ohio. Filed Aug. 22, 1921.

SCOUT

Particular description of goods.—Toy Pistols, Rifles, and Repeating Rifles.
Claims use since latter part of 1913.

Ser. No. 152,117. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE BOSTON MANUFACTURING COMPANY, 1901, Waltham, Mass. Filed Aug. 24, 1921.

VERLAN

Particular description of goods.—Cotton Piece Goods.
Claims use since July 12, 1922.

Ser. No. 152,173. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MATTHEW KAUFMAN, New York, N. Y. Filed Aug. 25, 1921.

SALLY

Particular description of goods.—Hair-Nets.
Claims use since November, 1920.

Ser. No. 152,186. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. STEIN & CO., New York, N. Y. Filed Aug. 25, 1921.

Ascot

Particular description of goods.—Woolen Piece Goods.
Claims use since June 24, 1921.

Ser. No. 152,204. (CLASS 5. ADHESIVES.) FRANK E. HOUSH, Boston, Mass. Filed Aug. 26, 1921.

nobuc

Particular description of goods.—Liquid Adhesive Preparation.
Claims use since July 27, 1921.

Ser. No. 152,220. (CLASS 48. MALT BEVERAGES, EXTRACTS AND LIQUORS.) LEWIS LEE BALCH, Pittsburgh, Pa. Filed Aug. 27, 1921.

THREE LEAF

Particular description of goods.—A Combination of Malt Extract, Hops, and Maltose Sugar Used in Making a Non-Alcoholic Malt Beverage.
Claims use since May 1, 1921.

Ser. No. 152,236. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) N. B. COHEN, Scranton, Pa. Filed Aug. 27, 1921.



No rights are asserted to the exclusive use of the words "Imported—Human—Hair-Nets—Hand-Made—Durable—Invisible—Stretched—Cap Shape" or the representation of a hair-net apart from the mark shown in the drawing. The picture shown in the drawing is fanciful.
Particular description of goods.—Hair-Nets.
Claims use since January, 1920.

Ser. No. 152,254. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HAAS BROTHERS FABRICS CORPORATION, New York, N. Y. Filed Aug. 27, 1921.

Dorette

Consisting of the word "Dorette."
Particular description of goods.—Silk Piece Goods.
Claims use since Mar. 4, 1921.

Ser. No. 152,305. (CLASS 48. MALT BEVERAGES, EXTRACTS AND LIQUORS.) GERHARD LANG BREWERY, Buffalo, N. Y. Filed Aug. 29, 1921.

LANG

Particular description of goods.—Malt Syrup, Malt Extracts, and Malt Beverages Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume.
Claims use since 1894.

Ser. No. 152,434. (CLASS 48. MALT BEVERAGES, EXTRACTS AND LIQUORS.) MALT-DIASTASE COMPANY, New York, N. Y. Filed Aug. 31, 1921.

FRANKLIN



Comprising the word "Franklin" and the picture of Benjamin Franklin, deceased.
Particular description of goods.—Concentrated Liquid Malt Extracts.
Claims use since Aug. 1, 1921.

TRADE-MARK REGISTRATIONS GRANTED

147,255. LEATHER SHOES. HARRY E. ADAMS, Haverhill, Mass.
Filed November 24, 1920. Serial No. 140,083. PUBLISHED MAY 31, 1921.

147,256. INCUBATORS AND BROODERS. AMERICAN INCUBATOR MANUFACTURING CO., New Brunswick, N. J.
Filed August 5, 1920. Serial No. 135,797. PUBLISHED SEPTEMBER 28, 1920.

147,257. CARD-INDEX, RECORD, AND FILING SYSTEMS AND PARTS THEREOF. AMERICAN KARDEX COMPANY, Tonawanda, N. Y.
Filed June 4, 1920. Serial No. 133,239. PUBLISHED MAY 17, 1921.

147,258. CARD-INDEX, RECORD, AND FILING SYSTEMS AND PARTS THEREOF. AMERICAN KARDEX COMPANY, Tonawanda, N. Y.
Filed June 4, 1920. Serial No. 133,240. PUBLISHED MAY 17, 1921.

147,259. CARD-INDEX, RECORD, AND FILING SYSTEMS AND PARTS THEREOF. AMERICAN KARDEX COMPANY, Tonawanda, N. Y.
Filed June 4, 1920. Serial No. 133,241. PUBLISHED MAY 17, 1921.

147,260. CARD-INDEX, RECORD AND FILING SYSTEMS AND PARTS THEREOF. AMERICAN KARDEX COMPANY, Tonawanda, N. Y.
Filed June 4, 1920. Serial No. 133,243. PUBLISHED MAY 17, 1921.

147,261. UNSWEETENED EVAPORATED MILK. AMERICAN MILK PRODUCTS CORPORATION, New York, N. Y.
Filed April 14, 1921. Serial No. 146,155. PUBLISHED JUNE 28, 1921.

147,262. SWEETENED CONDENSED MILK. AMERICAN MILK PRODUCTS CORPORATION, New York, N. Y.
Filed April 14, 1921. Serial No. 146,156. PUBLISHED JUNE 28, 1921.

147,263. UNSWEETENED EVAPORATED MILK. AMERICAN MILK PRODUCTS CORPORATION, New York, N. Y.
Filed April 14, 1921. Serial No. 146,157. PUBLISHED JUNE 28, 1921.

147,264. SWEETENED CONDENSED MILK. AMERICAN MILK PRODUCTS CORPORATION, New York, N. Y.
Filed April 14, 1921. Serial No. 146,158. PUBLISHED JUNE 28, 1921.

147,265. CERTAIN PRODUCTS OF IRON, OF STEEL, AND OF ALLOYS OF IRON. THE AMERICAN ROLLING MILL COMPANY, Middletown, Ohio.
Filed March 3, 1921. Serial No. 144,271. PUBLISHED MAY 31, 1921.

147,266. HAIR-NETS. FRED D. AMMIDOWN, Boston, Mass.
Filed March 3, 1921. Serial No. 144,272. PUBLISHED MAY 31, 1921.

147,267. HOSIERY. ART KNIT HOSIERY COMPANY, Philadelphia, Pa.
Filed January 20, 1921. Serial No. 142,458. PUBLISHED MAY 31, 1921.

147,268. BOLTS, SCREWS, STUDS, RIVETS, NUTS, AND CLEVIS-PINS. THE ATLAS BOLT & SCREW CO., Cleveland, Ohio.
Filed February 1, 1921. Serial No. 143,030. PUBLISHED JUNE 14, 1921.

147,269. TRACTORS. THE BAINES ENGINEERING COMPANY, Canal Dover, Ohio.
Filed February 9, 1921. Serial No. 143,837. PUBLISHED MAY 31, 1921.

147,270. SOAPS. BARCLAY & CO., Wilmington, Del., and New York, N. Y.
Filed January 20, 1921. Serial No. 142,467. PUBLISHED JUNE 21, 1921.

147,271. MEN'S CLOTHING, CONSISTING OF SUITS AND OVERCOATS. BARON, LEHRMAN & BERLIN, INC., New York, N. Y.
Filed October 16, 1920. Serial No. 138,373. PUBLISHED JUNE 7, 1921.

147,272. SERIAL CARTOONS. RICHARD JAMES BIRDSE, St. Louis, Mo.
Filed March 21, 1921. Serial No. 145,002. PUBLISHED JUNE 7, 1921.

147,273. SPECTACLES, EYEGLASSES, AND OPHTHALMIC MOUNTINGS AND COMPONENT PARTS OF SUCH MOUNTINGS. THE BISHOP COMPANY, North Attleboro, Mass.
Filed February 12, 1921. Serial No. 143,478. PUBLISHED MAY 31, 1921.

147,274. NICKEL AND NICKEL-ALLOY CLAD STEEL SHEETS. H. BOKER & CO., INC., New York, N. Y.
Filed March 3, 1921. Serial No. 144,275. PUBLISHED MAY 31, 1921.

147,275. HOSIERY, UNDERWEAR, AND KNITTED SWEATERS. BRUMMEL & MENDELSOHN, New York, N. Y.
Filed January 13, 1920. Serial No. 127,076. PUBLISHED APRIL 19, 1921.

147,276. HOSIERY, UNDERWEAR, AND KNITTED SWEATERS. BRUMMEL & MENDELSOHN, New York, N. Y.
Filed January 13, 1920. Serial No. 127,077. PUBLISHED APRIL 19, 1921.

147,277. HOSIERY, UNDERWEAR, AND KNITTED SWEATERS. BRUMMEL & MENDELSOHN, New York, N. Y.
Filed January 13, 1920. Serial No. 127,080. PUBLISHED MARCH 22, 1921.

147,278. LEATHER-DRESSINGS. BURNS MFG. CO., New York, N. Y.
Filed March 29, 1921. Serial No. 145,384. PUBLISHED MAY 31, 1921.

147,279. WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE, WHOLLY OR PARTLY OF SILK. CHENEY BROTHERS, South Manchester, Conn.
Filed January 27, 1921. Serial No. 142,827. PUBLISHED MAY 31, 1921.

147,280. COTTON PIECE GOODS. CHICOPEE MFG. CORPORATION, Chicopee Falls, Mass.
Filed February 14, 1921. Serial No. 143,536. PUBLISHED JUNE 14, 1921.

147,281. COTTON PIECE GOODS. CHICOPEE MFG. CORPORATION, Chicopee Falls, Mass.
Filed February 14, 1921. Serial No. 143,537. PUBLISHED JUNE 14, 1921.

147,282. IRON AND STEEL FORGINGS AND CASTINGS. CHROME STEEL WORKS, Chrome, N. J.
Filed April 13, 1921. Serial No. 146,112. PUBLISHED MAY 31, 1921.

147,283. DRESSINGS FOR POWER-TRANSMISSION BELTS. CLING-SURFACE COMPANY, Buffalo, N. Y.
Filed April 9, 1921. Serial No. 145,938. PUBLISHED MAY 31, 1921.

147,284. SOAPS. COLGATE & COMPANY, Jersey City, N. J.
Filed March 29, 1921. Serial No. 145,391. PUBLISHED MAY 31, 1921.

147,285. A MANUAL OR PUBLICATION ISSUED AT INTERVALS. COMMERCIAL NEWSPAPER COMPANY, New York, N. Y.
Filed February 21, 1921. Serial No. 143,853. PUBLISHED JUNE 7, 1921.

147,286. PREPARATION TO PREVENT DEPOSIT OF MOISTURE ON GLASS. G. W. CONARD & COMPANY, Philadelphia, Pa.
Filed February 14, 1921. Serial No. 143,535. PUBLISHED MAY 31, 1921.

147,287. COTTON-GINS AND ACCESSORIES THEREFOR AND COTTON-PRESSES. CONTINENTAL GIN Co., Birmingham, Ala.
Filed February 14, 1921. Serial No. 143,541. PUBLISHED JUNE 14, 1921.

147,288. NEWSPAPERS. THE CORN BELT FARM DAILIES, Chicago, Ill.
Filed November 18, 1920. Serial No. 139,813. PUBLISHED JUNE 7, 1921.

147,289. SPAGHETTI. G. G. CORNWELL & SON, INC., Washington, D. C.
Filed October 22, 1920. Serial No. 138,670. PUBLISHED JUNE 7, 1921.

147,290. A MEDICINAL PREPARATION FOR THE TREATMENT OF SYPHILIS AND KINDRED DISEASES. DR. WILLIAM E. CRAIG, Joplin, Mo.
Filed March 7, 1921. Serial No. 144,383. PUBLISHED JUNE 21, 1921.

147,291. PHOTOGRAPHIC DRY PLATES, INCLUDING X-RAY DRY PLATES. G. CRAMER DRY PLATE COMPANY, St. Louis, Mo.
Filed April 8, 1921. Serial No. 145,879. PUBLISHED MAY 31, 1921.

147,292. X-RAY DRY PLATES. G. CRAMER DRY PLATE COMPANY, St. Louis, Mo.
Filed April 8, 1921. Serial No. 145,880. PUBLISHED MAY 31, 1921.

147,293. MIDDY-BLOUSES. CRIPPEN & REID, Baltimore, Md.
Filed February 15, 1921. Serial No. 143,590. PUBLISHED JUNE 7, 1921.

147,294. OPHTHALMIC LENSES. ANDREW JAY CROSS, New York, N. Y.
Filed November 12, 1920. Serial No. 139,565. PUBLISHED JUNE 14, 1921.

147,295. A PUBLICATION ISSUED ABOUT SEMI-ANNUALLY. BESSIE DAMSEY INC., New York, N. Y.
Filed March 5, 1921. Serial No. 144,312. PUBLISHED MAY 31, 1921.

147,296. GLOVES OF LEATHER AND FABRIC FOR MEN, WOMEN, AND CHILDREN. JOSIAH H. DANFORTH & COMPANY, Gloversville, N. Y.
Filed February 12, 1921. Serial No. 143,489. PUBLISHED JUNE 14, 1921.

147,297. BRASSIÈRES. MIRIAM R. DAVIS, San Francisco, Calif.
Filed January 20, 1921. Serial No. 142,476. PUBLISHED JUNE 7, 1921.

147,298. CHURNS. DAISY CHURN & MANUFACTURING COMPANY, St. Louis, Mo.
Filed February 11, 1921. Serial No. 143,429. PUBLISHED JUNE 14, 1921.

147,299. CHURNS. DAISY CHURN & MANUFACTURING COMPANY, St. Louis, Mo.
Filed February 11, 1921. Serial No. 143,430. PUBLISHED JUNE 14, 1921.

147,300. SILKS AND SILK FABRICS IN THE PIECE. DENVILLE SILK CO. INC., New York, N. Y.
Filed April 12, 1921. Serial No. 146,070. PUBLISHED JUNE 28, 1921.

147,301. LAUNDRY-TABLETS. THAKER DRY SHARMAN, Detroit, Mich.
Filed March 17, 1921. Serial No. 144,881. PUBLISHED MAY 31, 1921.

147,302. INSTRUCTION-BOOKS AND PRINTED MATTER ISSUED FROM TIME TO TIME. DOLLFUS MIEG & CIE. SOCIETE ANONYME, Mulhouse, France.
Filed December 8, 1920. Serial No. 140,779. PUBLISHED JUNE 7, 1921.

147,303. INSTRUCTION-BOOKS AND PRINTED MATTER ISSUED FROM TIME TO TIME. DOLLFUS MIEG & CIE. SOCIETE ANONYME, Mulhouse, France.
Filed December 8, 1920. Serial No. 140,784. PUBLISHED JUNE 7, 1921.

147,304. POLISHING MATERIALS. ORANGE M. DRAKE, Salt Lake City, Utah.
Filed July 31, 1920. Serial No. 135,637. PUBLISHED MAY 31, 1921.

147,305. POLISH FOR PIANOS AND AUTOMOBILES. THE DRESSO POLISH CO., Norwich, Conn.
Filed March 9, 1921. Serial No. 144,501. PUBLISHED JUNE 14, 1921.

147,306. SOAP. THE ELKONITE SOAP CO., INC., Oakland, Calif.
Filed February 15, 1921. Serial No. 143,593. PUBLISHED MAY 31, 1921.

147,307. CERTAIN ARTICLES OF CLOTHING. J. ESKIND & SONS, Nashville, Tenn.
Filed January 31, 1921. Serial No. 142,965. PUBLISHED JUNE 14, 1921.

147,308. UNDERWAISTS, UNION-SUITS, AND SLEEPING-GARMENTS. THE E-Z WAIST COMPANY, New York, N. Y.
Filed January 29, 1921. Serial No. 142,925. PUBLISHED MAY 31, 1921.

147,309. A COMPOSITION OF VARIANT CONSISTENCY FOR DRESSING, POLISHING, AND CLEANING FOOTWEAR, LEATHER, AND LEATHER PRODUCTS. JERRY FAPPIANO, Waterbury, Conn.
Filed April 3, 1920. Serial No. 130,583. PUBLISHED MAY 31, 1921.

147,310. UNDERWEAR OF KNITTED, NETTED, AND TEXTILE FABRICS FOR MEN, WOMEN, AND CHILDREN. JOSEPH A. FISCHINO, Utica, N. Y.
Filed February 8, 1921. Serial No. 143,318. PUBLISHED MAY 31, 1921.

147,311. CLEANING AND SCOURING PREPARATION IN POWDERED FORM. FITZPATRICK BROS., Chicago, Ill.
Filed February 18, 1921. Serial No. 143,750. PUBLISHED MAY 31, 1921.

147,312. SOAP. FITZPATRICK BROS., Chicago, Ill.
Filed December 9, 1920. Serial No. 140,832. PUBLISHED MAY 31, 1921.

147,313. ANTICHATTERING FLUID USED IN THE TREATMENT OF SPEED-BAND LININGS AND THE LIKE. NORVIL T. FOSTER, Columbus, Ohio.
Filed March 10, 1921. Serial No. 144,566. PUBLISHED MAY 31, 1921.

147,314. INTERNAL-COMBUSTION ENGINES AND PARTS THEREOF. THE FREEFLOATING POPPET VALVE COMPANY, Salt Lake City, Utah.
Filed January 11, 1921. Serial No. 142,063. PUBLISHED JUNE 14, 1921.

147,315. AUTOMATIC FIRE-SPRINKLER SYSTEMS. GLOBE AUTOMATIC SPRINKLER COMPANY, Philadelphia, Pa.
Filed October 31, 1919. Serial No. 124,560. PUBLISHED JUNE 7, 1921.

147,316. CERTAIN NAMED CHEMICAL SUBSTANCES. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio.
Filed January 29, 1921. Serial No. 142,930. PUBLISHED JUNE 14, 1921.

147,317. DYES AND DYESTUFFS. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio.
Filed January 29, 1921. Serial No. 142,931. PUBLISHED JUNE 14, 1921.

147,318. CERTAIN GAGES AND MICROMETERS. GREENFIELD TAP AND DIE CORPORATION, Greenfield, Mass.
Filed January 8, 1921. Serial No. 141,976. PUBLISHED JUNE 28, 1921.

147,319. CERTAIN TOOLS AND PARTS OF MACHINERY. GREENFIELD TAP AND DIE CORPORATION, Greenfield, Mass.
Filed January 8, 1921. Serial No. 141,977. PUBLISHED JUNE 14, 1921.

147,320. CERTAIN TOOLS AND PARTS OF MACHINERY. GREENFIELD TAP AND DIE CORPORATION, Greenfield, Mass.
Filed January 8, 1921. Serial No. 141,978. PUBLISHED JUNE 14, 1921.

147,321. CERTAIN TOOLS AND PARTS OF MACHINERY. GREENFIELD TAP AND DIE CORPORATION, Greenfield, Mass.
Filed January 8, 1921. Serial No. 141,979. PUBLISHED JUNE 14, 1921.

147,322. CERTAIN TOOLS AND PARTS OF MACHINERY. GREENFIELD TAP AND DIE CORPORATION, Greenfield, Mass.
Filed January 8, 1921. Serial No. 141,980. PUBLISHED JUNE 14, 1921.

147,323. BEDS AND CRIBS. GREENPOINT METALLIC BED COMPANY, Brooklyn, N. Y.
Filed March 9, 1917. Serial No. 102,005. PUBLISHED MAY 24, 1921.

147,324. MEN'S AND BOYS' LEATHER SHOES. HAMILTON-BROWN SHOE COMPANY, St. Louis, Mo.
Filed November 26, 1920. Serial No. 140,176. PUBLISHED MAY 31, 1921.

147,325. MEN'S SUITS AND OVERCOATS. HARRIS, RICHMAN & GOLDSTEIN, New York, N. Y.
Filed January 3, 1921. Serial No. 141,781. PUBLISHED MAY 31, 1921.

147,326. SHOE-INK. CHAS. M. HATCHER MFG. CO., Philadelphia, Pa.
Filed March 29, 1921. Serial No. 145,401. PUBLISHED JUNE 21, 1921.

147,327. PILE-SALVE. JOHN R. HATHURST, Evansville, Ind.
Filed January 29, 1921. Serial No. 142,934. PUBLISHED JUNE 14, 1921.

147,328. PHOTOGRAPHS, PHOTOGRAPHIC PRINTS, AND COMMERCIAL PHOTOGRAPHS. THE HEISER COMPANY, Cleveland, Ohio.
Filed July 29, 1920. Serial No. 135,558. PUBLISHED JUNE 7, 1921.

147,329. WEEKLY PUBLICATION. WILLIAM H. HENDRICKS, Reno, Nev.
Filed February 7, 1921. Serial No. 143,266. PUBLISHED JUNE 7, 1921.

147,330. A PREPARATION FOR CLEANING, SHINING, AND POLISHING SHOES AND ALL LEATHER ARTICLES. THE HERRIOTT POLISH CO., St. Louis, Mo.
Filed February 26, 1921. Serial No. 144,084. PUBLISHED MAY 31, 1921.

147,331. MEN'S, WOMEN'S, AND CHILDREN'S SHOES MADE OF LEATHER, FABRIC AND COMBINED LEATHER AND FABRIC. THE HOLTERS COMPANY, Cincinnati, Ohio.
Filed February 18, 1921. Serial No. 143,758. PUBLISHED JUNE 14, 1921.

147,332. RUBBER BOOTS AND SHOES. HOOD RUBBER COMPANY, Watertown, Mass.
Filed February 16, 1921. Serial No. 143,644. PUBLISHED JUNE 14, 1921.

147,333. SCARFS, STOCKINGS, SOCKS, AND SWEATERS FOR MEN, WOMEN, AND CHILDREN, OF TEXTILE FABRICS. F. C. HUYCK & SONS, Albany, N. Y.
Filed February 15, 1921. Serial No. 143,606. PUBLISHED JUNE 7, 1921.

147,334. MATTRESSES, PILLOWS, AND BOX-SPRINGS. INTERNATIONAL BEDDING CO. INC., Baltimore, Md.
Filed May 21, 1920. Serial No. 132,742. PUBLISHED JUNE 7, 1921.

147,335. MATTRESSES, PILLOWS, AND BOX-SPRINGS. INTERNATIONAL BEDDING CO. INC., Baltimore, Md.
Filed May 21, 1920. Serial No. 132,743. PUBLISHED JUNE 7, 1921.

147,336. MATTRESSES, PILLOWS, AND BOX-SPRINGS. INTERNATIONAL BEDDING CO. INC., Baltimore, Md.
Filed May 21, 1920. Serial No. 132,744. PUBLISHED JUNE 7, 1921.

147,337. MATTRESSES, PILLOWS, AND BOX-SPRINGS. INTERNATIONAL BEDDING CO. INC., Baltimore, Md.
Filed June 25, 1920. Serial No. 134,193. PUBLISHED JUNE 7, 1921.

147,338. MATTRESSES, PILLOWS, AND BOX-SPRINGS. INTERNATIONAL BEDDING CO. INC., Baltimore, Md.
Filed June 25, 1920. Serial No. 134,195. PUBLISHED JUNE 7, 1921.

147,339. MATTRESSES, PILLOWS, AND BOX-SPRINGS. INTERNATIONAL BEDDING CO. INC., Baltimore, Md.
Filed June 25, 1920. Serial No. 134,196. PUBLISHED JUNE 7, 1921.

147,340. MATTRESSES, PILLOWS, AND BOX-SPRINGS. INTERNATIONAL BEDDING CO. INC., Baltimore, Md.
Filed June 25, 1920. Serial No. 134,200. PUBLISHED JUNE 7, 1921.

147,341. A PERIODICAL ISSUED MONTHLY. INTERNATIONAL CORRESPONDENCE SCHOOLS, Scranton, Pa.
Filed March 22, 1921. Serial No. 145,065. PUBLISHED JUNE 7, 1921.

147,342. LADIES' HATS. KAYS MILLINERY COMPANY, Newark, N. J.
Filed January 28, 1921. Serial No. 142,888. PUBLISHED MAY 31, 1921.

147,343. CUT-STEEL BUCKLES. KRSCOT MANUFACTURING COMPANY INCORPORATED, Providence, R. I.
Filed September 14, 1920. Serial No. 137,175. PUBLISHED JUNE 7, 1921.

147,344. CLINICAL THERMOMETERS. E. KESSLING THERMOMETER CO., Brooklyn, N. Y.
Filed February 12, 1921. Serial No. 143,502. PUBLISHED MAY 31, 1921.

147,345. BOYS' SHIRTS, BLOUSES, WASH-SUITS, PLAY-GARMENTS, AND ROMPERS. KUH BROTHERS, San Francisco, Calif.
Filed December 8, 1920. Serial No. 140,797. PUBLISHED JUNE 14, 1921.

147,346. SOAP AND PREPARATION IN THE NATURE OF SOAP. KWIX COMPANY, Boston, Mass.
Filed July 16, 1920. Serial No. 135,046. PUBLISHED JUNE 21, 1921.

147,347. A NOM DE PLUME USED ON NEWSPAPER ARTICLES. DAVID LAWRENCE INCORPORATED, Washington, D. C.
Filed February 19, 1921. Serial No. 143,810. PUBLISHED JUNE 7, 1921.

147,348. A NOM DE PLUME USED ON NEWSPAPER ARTICLES. DAVID LAWRENCE INCORPORATED, Washington, D. C.
Filed March 18, 1921. Serial No. 144,922. PUBLISHED JUNE 7, 1921.

147,349. CHILDREN'S DRESSES, ROMPERS, AND MIDDIES. ROBERT E. LIMPERT, Philadelphia, Pa.
Filed February 4, 1921. Serial No. 143,173. PUBLISHED JUNE 14, 1921.

147,350. CHILDREN'S, MISSES', AND LADIES' DRESSES. HARRY J. LINSK, Philadelphia, Pa.
Filed February 16, 1921. Serial No. 143,649. PUBLISHED JUNE 14, 1921.

147,351. TOILET LOTIONS. LIQUID VELVET COMPANY, Cincinnati, Ohio.
Filed February 14, 1921. Serial No. 143,563. PUBLISHED JUNE 14, 1921.

147,352. CERTAIN ARTICLES OF CLOTHING. McCAWLEY AND CO. INC., Baltimore, Md.
Filed February 11, 1921. Serial No. 143,446. PUBLISHED MAY 31, 1921.

147,353. WHITE OR COLORED DYESTUFFS IN POWDERED, PASTY, OR LIQUID FORM. MAASTRICHTSCHE ZINKWIT MAATSCHAPPIJ, Maastricht, Netherlands.
Filed February 1, 1921. Serial No. 143,053. PUBLISHED JUNE 21, 1921.

147,354. WHITE OR COLORED DYESTUFFS IN POWDERED, PASTY, OR LIQUID FORM. MAASTRICHTSCHE ZINKWIT MAATSCHAPPIJ, Maastricht, Netherlands.
Filed February 1, 1921. Serial No. 143,054. PUBLISHED JUNE 21, 1921.

147,355. HOSIERY. FERDINAND MANN, New York, N. Y.
Filed February 15, 1921. Serial No. 143,613. PUBLISHED JUNE 14, 1921.

147,356. SHEETING, SHEETS, AND PILLOW-CASES. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,290. PUBLISHED JUNE 14, 1921.

147,357. SWEATERS, BATHING-SUITS, DRESSES, AND SKIRTS. MAY KNITTING CO., INC., New York, N. Y.
Filed December 29, 1920. Serial No. 141,641. PUBLISHED MAY 31, 1921.

147,358. APRON-DRESSES. MAYER & NEUBURGER COMPANY, Chicago, Ill.
Filed February 3, 1921. Serial No. 143,133. PUBLISHED JUNE 7, 1921.

147,359. RAZOR-BLADES, SAFETY-RAZORS, SAFETY-RAZOR HANDLES. CARL L. MERZ, Newark, N. J.
Filed January 29, 1921. Serial No. 142,937. PUBLISHED JUNE 14, 1921.

147,360. INFANTS' AND CHILDREN'S SHOES MADE WHOLLY OR IN PART OF LEATHER. W. Y. MILLER, Schuylkill Haven, Pa.
Filed February 14, 1921. Serial No. 143,564. PUBLISHED MAY 31, 1921.

147,361. KNIT CAPS AND TOQUES. BARNEY OSTREICHER, New York, N. Y.
Filed February 18, 1921. Serial No. 143,775. PUBLISHED JUNE 14, 1921.

147,362. BOOTS AND SHOES OF LEATHER AND COMBINATIONS OF LEATHER, FABRIC, AND RUBBER. OLD COLONY SHOE COMPANY, Brockton, Mass.
Filed January 5, 1921. Serial No. 141,867. PUBLISHED JUNE 14, 1921.

147,363. RUSTIC CHAIRS, STOOLS, SETTEES, LOUNGES, TABLES, SWINGS, HAT-TREES, UMBRELLA-STANDS. THE OLD HICKORY CHAIR COMPANY, Martinsville, Ind.
Filed June 4, 1919. Serial No. 119,206. PUBLISHED APRIL 12, 1921.

147,364. TRADE JOURNAL OR PAPER PUBLISHED AT IRREGULAR INTERVALS. OTT-HEISKELL HARDWARE CO., Wheeling, W. Va.
Filed December 16, 1920. Serial No. 141,185. PUBLISHED JUNE 7, 1921.

147,365. COUCH-HAMMOCKS. THE I. E. PALMER CO., Middletown, Conn.
Filed March 30, 1920. Serial No. 129,504. PUBLISHED MAY 31, 1921.

147,366. COUCH-HAMMOCKS. THE I. E. PALMER CO., Middletown, Conn.
Filed October 15, 1920. Serial No. 138,840. PUBLISHED APRIL 12, 1921.

147,367. LUBRICATING OILS AND GREASES AND GASOLENE. PENNANT OIL & GREASE CO., Los Angeles, Calif.
Filed February 1, 1921. Serial No. 143,060. PUBLISHED JUNE 14, 1921.

147,368. A CLEANER AND POLISH FOR WHITE-LEATHER SHOES. THE A. E. PERKINS CORPORATION, Dallas, Tex.
Filed April 8, 1921. Serial No. 145,910. PUBLISHED MAY 31, 1921.

147,369. COLLARS. SOLOMON PERLMUTTER, New York, N. Y.
Filed January 12, 1921. Serial No. 142,163. PUBLISHED MAY 31, 1921.

147,370. AN ALUMINUM-ALLOY PLATE WHICH AUTOMATICALLY CLEANS GOLD, GOLD-PLATED, SILVER, SILVER-PLATED ARTICLES, CALLED AN AUTOMATIC DETERGENT. BRYAN D. PINKNEY, Newport, Ky.
Filed May 21, 1920. Serial No. 132,755. PUBLISHED MAY 31, 1921.

147,371. A NON-GREASY GRANULATED CHEMICAL CLEANSER. MOLINE CHEMICAL COMPANY, Moline, Ill.
Filed November 10, 1919. Serial No. 124,726. PUBLISHED MAY 31, 1921.

147,372. BLOOMERS, BLOUSES, WAISTS, SKIRTS, AND COMBINATION-SUITS. MORRIS & COMPANY, INCORPORATED, Baltimore, Md.
Filed February 19, 1921. Serial No. 143,826. PUBLISHED JUNE 14, 1921.

147,373. HOSIERY AND UNDERWEAR, SUCH UNDERWEAR BEING OF KNITTED AND TEXTILE FABRIC. THE MUNSINGWEAR CORPORATION, Minneapolis, Minn.
Filed November 24, 1920. Serial No. 140,126. PUBLISHED MAY 3, 1921.

147,374. SANITARY HUMAN-HAIR NETS. NATIONAL COMMODITIES CO., Philadelphia, Pa.
Filed November 2, 1920. Serial No. 139,066. PUBLISHED MARCH 8, 1921.

147,375. MIDDY-BLOUSES. NEW FREEDOM MANUFACTURING COMPANY, New Freedom, Pa.
Filed December 11, 1920. Serial No. 140,958. PUBLISHED JUNE 7, 1921.

147,376. CERTAIN NAMED OUTER CASINGS, AND INNER TUBES FOR TIRES. NEW SOUTH RUBBER COMPANY, Atlanta, Ga.
Filed October 28, 1920. Serial No. 138,917. PUBLISHED JUNE 7, 1921.

147,377. TANNING EXTRACTS. NEW YORK QUEBRACHO EXTRACT COMPANY, New York, N. Y.
Filed January 28, 1921. Serial No. 142,898. PUBLISHED JUNE 14, 1921.

147,378. TANNING EXTRACTS. NEW YORK QUEBRACHO EXTRACT COMPANY, New York, N. Y.
Filed January 28, 1921. Serial No. 142,899. PUBLISHED JUNE 14, 1921.

147,379. TANNING EXTRACTS. NEW YORK QUEBRACHO EXTRACT COMPANY, New York, N. Y.
Filed January 28, 1921. Serial No. 142,900. PUBLISHED JUNE 14, 1921.

147,380. MORDANTS FOR TEXTILES. NEW YORK QUEBRACHO EXTRACT COMPANY, New York, N. Y.
Filed January 28, 1921. Serial No. 142,901. PUBLISHED JUNE 14, 1921.

147,381. TANNING EXTRACTS. NEW YORK QUEBRACHO EXTRACT COMPANY, New York, N. Y.
Filed January 28, 1921. Serial No. 142,897. PUBLISHED JUNE 14, 1921.

147,382. WRENCHES. THE NIAGARA MANUFACTURING COMPANY, Lucas, Ohio.
Filed January 25, 1921. Serial No. 142,762. PUBLISHED JUNE 14, 1921.

147,383. BOYS' BLOUSES. THE OBERNDORFER CO., Milwaukee, Wis.
Filed January 15, 1921. Serial No. 142,294. PUBLISHED JUNE 7, 1921.

147,384. CERTAIN METERS AND INSTRUMENTS OF PRECISION. METROPOLITAN-VICKERS ELECTRICAL CO., LTD., London, England.
Filed December 31, 1920. Serial No. 141,727. PUBLISHED JUNE 14, 1921.

147,385. MAPS, CHARTS, AND PRINTED BOOKS USED IN CONNECTION THEREWITH. THE PORTER CHEMICAL COMPANY, Hagerstown, Md.
Filed February 16, 1921. Serial No. 143,655. PUBLISHED JUNE 7, 1921.

147,386. SPHYGMOMANOMETERS, THERMOMETERS, HYDROMETERS, HYGROMETERS, BAROMETERS, AND PRECISION MERCURIAL AND DIAPHRAGM PRESSURE AND DRAFT GAGES. PRECISION THERMOMETER AND INSTRUMENT COMPANY, Philadelphia, Pa.
Filed January 3, 1921. Serial No. 141,802. PUBLISHED JUNE 14, 1921.

147,387. HOUSE-TABLES, HOUSE CHAIRS, AND DESKS. THE PRESTOY MFG. CO., Bridgeport, Conn.
Filed August 5, 1920. Serial No. 135,823. PUBLISHED MAY 17, 1921.

147,388. PRINTED BOOKLETS AND LEAFLETS PUBLISHED FROM TIME TO TIME. PROCESS ENGINEERS, INCORPORATED, New York, N. Y.
Filed January 22, 1921. Serial No. 142,640. PUBLISHED JUNE 7, 1921.

147,389. SOAP AND SOAP PASTES. JAMES S. PURDY, Los Angeles, Calif.
Filed February 23, 1921. Serial No. 143,952. PUBLISHED MAY 31, 1921.

147,390. BODY-VERMIN DESTROYERS. RAARS & BOWMAN, Philadelphia, Pa.
Filed January 31, 1921. Serial No. 143,010. PUBLISHED JUNE 14, 1921.

147,391. A REPAIR-PATCH OF MOLDED AND SHEET RUBBER FOR RUBBER FOOTWEAR. ROBERTSON & SONS SHOE REPAIRERS, INC., New York, N. Y.
Filed February 10, 1921. Serial No. 143,402. PUBLISHED JUNE 14, 1921.

147,392. MISSES' AND LADIES' SUITS, COATS, AND DRESSES. JOSEPH RODGERS INC., New York, N. Y.
Filed January 29, 1921. Serial No. 142,941. PUBLISHED MAY 31, 1921.

147,393. LADIES' READY-TO-WEAR PETTICOATS, SKIRTS, AND BLOOMERS. W. H. ROGERS CO., Chicago, Ill.
Filed December 17, 1920. Serial No. 141,240. PUBLISHED MAY 17, 1921.

147,394. LADIES' READY-TO-WEAR PETTICOATS, SKIRTS, AND BLOOMERS. W. H. ROGERS CO., Chicago, Ill.
Filed January 20, 1921. Serial No. 142,533. PUBLISHED JUNE 14, 1921.

147,395. TOILET SOAP. ROLLING TOOTH BRUSH COMPANY, Boston, Mass., and Montclair, N. J.
Filed April 4, 1921. Serial No. 145,716. PUBLISHED MAY 31, 1921.

147,396. A TONIC FOR BUILDING UP AND PURIFYING THE SYSTEM. LOUIS ROSENFIELD, Chicago, Ill.
Filed February 1, 1921. Serial No. 143,062. PUBLISHED JUNE 14, 1921.

147,397. PHOTOGRAPHS AND ILLUSTRATIONS. E. M. RUDD, Fargo, N. D., assignor to W. M. Neubeim, Moorhead, Minn.
Filed September 13, 1920. Serial No. 137,145. PUBLISHED JUNE 7, 1921.

147,398. ALL-WOOL DRESS GOODS IN THE PIECE. W. W. RYCROFT & CO., New York, N. Y.
Filed November 12, 1920. Serial No. 139,597. PUBLISHED MAY 31, 1921.

147,399. PUTTEES OF LEATHER AND CANVAS. ISIDORE SALMONSON, Los Angeles, Calif.
Filed September 15, 1920. Serial No. 137,244. PUBLISHED MAY 31, 1921.

147,400. RAZORS, SCISSORS, AND SPRAYERS FOR INSECTICIDES, DISINFECTANTS, AND GERMICIDES. SAN ANTONIO DRUG CO., San Antonio, Tex.
Filed January 18, 1921. Serial No. 142,419. PUBLISHED JUNE 14, 1921.

147,401. A POWDER PREPARATION FOR CLEANING ARTIFICIAL TEETH. SANT CHEMICAL CO., Kansas City, Mo.
Filed October 18, 1920. Serial No. 138,458. PUBLISHED MAY 31, 1921.

147,402. RAINCOATS. C. B. SHAWS CO., Chicago, Ill.
Filed February 11, 1921. Serial No. 143,457. PUBLISHED MAY 31, 1921.

147,403. ANTISEPTIC LUBRICATING JELLY. SHARP & DOHME, Baltimore, Md.
Filed February 11, 1921. Serial No. 143,456. PUBLISHED JUNE 14, 1921.

147,404. A RUG-CLEANER. SILVEY AND GOLLIDAY, Eldon, Mo.
Filed December 21, 1920. Serial No. 141,401. PUBLISHED MAY 31, 1921.

147,405. CERTAIN ARTICLES OF CLOTHING. FRANKLIN SIMON & CO. INC., New York, N. Y.
Filed April 26, 1920. Serial No. 131,631. PUBLISHED JUNE 7, 1921.

147,406. INSECTICIDES AND DISINFECTANTS. ROY A. SIMS, St. Louis, Mo.
Filed January 31, 1921. Serial No. 143,015. PUBLISHED JUNE 14, 1921.

147,407. COMBINATION PORCH-SWING AND HAMMOCK-COUCH. SLEEP-OR-SWING COMPANY, Topeka, Kans.
Filed July 16, 1920. Serial No. 135,082. PUBLISHED MAY 24, 1921.

147,408. SOAPS. ALFRED H. SMITH COMPANY, New York, N. Y.
Filed November 4, 1920. Serial No. 139,175. PUBLISHED MAY 31, 1921.

147,409. A SALVE POSSESSING DISINFECTING AND HEALING PROPERTIES. URI B. SOUTHWICK, Chelan, Wash.
Filed February 14, 1921. Serial No. 143,577. PUBLISHED JUNE 14, 1921.

147,410. FURNITURE—VIZ., LIBRARY-TABLES. GEORGE A. SPIES, Lowell, Ohio.
Filed October 12, 1920. Serial No. 138,241. PUBLISHED APRIL 12, 1921.

147,411. SUITS, OVERCOATS, AND TROUSERS FOR MEN AND BOYS. T. SPIEWAK & SONS, New York, N. Y.
Filed February 18, 1921. Serial No. 143,794. PUBLISHED JUNE 14, 1921.

147,412. A NOM DE PLUME USED ON NEWSPAPER ARTICLES. STAR COMPANY, New York, N. Y.
Filed March 18, 1921. Serial No. 144,944. PUBLISHED JUNE 7, 1921.

147,413. HEEL AND ARCH CUSHIONS FOR SHOES. GEORGE A. STETSON, Boston, Mass.
Filed November 24, 1920. Serial No. 140,145. PUBLISHED JUNE 14, 1921.

147,414. HATS AND CAPS FOR MEN AND BOYS. T. W. STEVENSON COMPANY, Minneapolis, Minn.
Filed February 1, 1921. Serial No. 143,066. PUBLISHED JUNE 14, 1921.

147,415. SILVER-POLISH. MRS. FLORENCE STEWART, Glencoe, Ill.
Filed March 15, 1920. Serial No. 129,763. PUBLISHED MAY 31, 1921.

147,416. CANDY. EDWIN M. STRAUSS, Chicago, Ill.
Filed February 24, 1921. Serial No. 144,003. PUBLISHED MAY 24, 1921.

147,417. CANDY. EDWIN M. STRAUSS, Chicago, Ill.
Filed March 11, 1921. Serial No. 144,643. PUBLISHED JUNE 7, 1921.

147,418. CANDY. EDWIN M. STRAUSS, Chicago, Ill.
Filed March 11, 1921. Serial No. 144,644. PUBLISHED JUNE 7, 1921.

147,419. CERTAIN NAMED ADVERTISING NOVELTIES, SUCH AS POST-CARDS, FOLDERS, TAGS, &c. TOLMAN PRINT INC., Brockton, Mass.
Filed July 3, 1920. Serial No. 134,553. PUBLISHED JUNE 7, 1921.

147,420. WATERPROOF COATS. A. J. TOWER COMPANY, Boston, Mass.
Filed February 8, 1921. Serial No. 143,333. PUBLISHED JUNE 14, 1921.

147,421. CERTAIN ARTICLES OF CLOTHING. BERNHARD ULMANN CO., INC., New York, N. Y.
Filed December 8, 1920. Serial No. 140,812. PUBLISHED JUNE 14, 1921.

147,422. CERTAIN NAMED INSTRUCTION-BOOKS FOR ART-NEEDLEWORK. BERNHARD ULMANN CO., INC., New York, N. Y.
Filed December 8, 1920. Serial No. 140,816. PUBLISHED JUNE 7, 1921.

147,423. CERTAIN ARTICLES OF CLOTHING. UNITED TURKEY RED COMPANY LIMITED, Glasgow, Scotland.
Filed November 26, 1920. Serial No. 140,220. PUBLISHED MAY 31, 1921.

147,424. MOTORS ACTUATED BY THE POWER OF THE TIDE. UNIVERSAL TIDE POWER COMPANY, Boston, Mass.
Filed February 5, 1921. Serial No. 143,227. PUBLISHED JUNE 14, 1921.

147,425. CARBURETERS AND VAPORIZERS FOR INTERNAL-COMBUSTION ENGINES. THE VAPORETOR CORPORATION, Milwaukee, Wis.
Filed December 22, 1920. Serial No. 141,441. PUBLISHED JUNE 14, 1921.

147,426. CERTAIN SHOE MACHINERY. VICTOR SHOE MACHINERY COMPANY, Lynn, Mass.
Filed January 11, 1921. Serial No. 142,117. PUBLISHED JUNE 14, 1921.

147,427. CERTAIN NAMED NOTIONS, SUCH AS GARMENT-FASTENERS, PINS, COLLAR-BUTTONS, &c. WALDES & CO., Prague, Bohemia.
Filed August 1, 1919. Serial No. 121,190. PUBLISHED MAY 31, 1921.

147,428. A CLOTH USED FOR POLISHING METAL. ADOLPH WERNER, Milwaukee, Wis.
Filed March 28, 1921. Serial No. 145,374. PUBLISHED MAY 31, 1921.

147,429. A SOFT-METAL GRINDING COMPOUND. JOHN OSCAR WERNER, New York, N. Y.
Filed March 21, 1921. Serial No. 145,050. PUBLISHED MAY 31, 1921.

147,430. DAIRY FEED. WESTERN FEED MANUFACTURERS, INC., Chicago, Ill.
Filed January 15, 1920. Serial No. 127,200. PUBLISHED APRIL 20, 1920.

147,431. RAINCOATS AND MEN'S OVERCOATS AND SUITS. WESTERN TEXTILE CO., Chicago, Ill.
Filed January 6, 1921. Serial No. 141,931. PUBLISHED MAY 31, 1921.

147,432. SOAP. AUSTIN A. WIGGINS, Cleveland, Ohio.
Filed February 23, 1921. Serial No. 143,972. PUBLISHED MAY 31, 1921.

147,433. TIRE-PATCHES. CONRAD WILKEY & CO., Casper, Wyo.
Filed December 14, 1920. Serial No. 141,662. PUBLISHED FEBRUARY 15, 1921.

147,434. CERTAIN RIVETS. THE H. A. WILSON COMPANY, Newark, N. J.
Filed February 21, 1921. Serial No. 143,898. PUBLISHED MAY 24, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

OCTOBER 11, 1921.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

147,435. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CONTINENTAL MFG. CO., Indianapolis, Ind. Filed July 1, 1921. Serial No. 149,893.

ALMOND

Particular description of goods.—Floor-Oils.
Claims use since 1912.

147,436. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KAILAS D. CHOWDHURY, Chicago, Ill. Filed Mar. 15, 1921. Serial No. 144,766.

HINDU ROSE

Particular description of goods.—Face-Powders, Talcum Powders, Toilet Waters, Perfumes, Rouges, and Sachets.
Claims use since December, 1919.

147,437. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS. THE GLANDEX CO., INC., New York, N. Y. Filed Nov. 26, 1920. Serial No. 140,173.

IODATED

Particular description of goods.—Ointment for Inflammatory Swellings of Muscles or Joints.
Claims use since Aug. 17, 1920.

147,438. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALFRED J. KRANK, St. Paul, Minn. Filed Apr. 28, 1921. Serial No. 146,879.

Hair-Root-Oil

Particular description of goods.—Hair-Shampoo.
Claims use since Dec. 2, 1916.

147,439. (CLASS 2. RECEPTACLES. MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920. Serial No. 140,271.

FIELD SEAMLESS

Particular description of goods.—Cloth Bags.
Claims use since 1916.

147,440. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE NU-LAC COMPANY, Fort Wayne, Ind. Filed Mar. 21, 1921. Serial No. 145,034.

NU-LAC
THE TRANSPARENT LUSTRE

Particular description of goods.—A Transparent Luster and Finish for Automobiles and Furniture.
Claims use since Mar. 1, 1920.

147,441. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WM. J. REUSS, Madison, Wis. Filed Jan. 6, 1921. Serial No. 141,932.

REUSS DE-LUXE POLISH

Particular description of goods.—Polishing Materials.
Claims use since Apr. 30, 1920.

147,442. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WM. J. REUSS, Madison, Wis. Filed Jan. 6, 1921. Serial No. 141,933.

REUSS DE-LUXE CLEANER

Particular description of goods.—Polishing Materials.
Claims use since Apr. 30, 1920.

147,443. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILMOT H. SIMONSEN, Medford, Mass. Filed Mar. 2, 1916. Serial No. 100,342.

RY-LENO

Particular description of goods—A Powdered Lemon Pie Filling.
Claims use since Nov. 26, 1913.

147,444. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) L. SONNEBORN SONS, INC., New York, N. Y. Filed Feb. 11, 1921. Serial No. 143,458.

STORMTIGHT

Particular description of goods.—Liquid and Plastic Surface-Coating Waterproofing Material in the Nature of a Paint Adapted to be Spread or Brushed Over Roofs, Walls, &c.
Claims use since August, 1913.

147,445. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STAFFORD FLOUR MILLS CO., Stafford, Kans. Filed Sept. 29, 1920. Serial No. 137,745.

PREFERRED FLOUR

Particular description of goods.—Wheat-Flour.
Claims use since July, 1918.

147,446. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ED. S. VAIL BUTTERINE CO., Chicago, Ill. Filed May 5, 1921. Serial No. 147,267.

EVER GOOD

Particular description of goods.—Oleomargarin.
Claims use since July 19, 1917.

DECISIONS
OF THE
COMMISSIONER OF PATENTS
AND OF
UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

EX PARTE ARBUCKLE.

Decided December 7, 1920.

1. PATENTABILITY—COMBINATION OLD—SUBSTITUTION OF EQUIVALENT NOT INVENTION.

Where an applicant claimed the various elements of a lamp in combination with a bellows and means for the passage of fluid for actuating the bellows, and thereby operating the reflector, and the prior art shows the same combination with the exception that it has a piston for operating the bellows, *Held* that the mere substitution of the bellows for the piston does not form a new combination.

2. SAME—SAME—NOVELTY, IF ANY, IS ONE ELEMENT.

Where an applicant improves one element of a combination, *Held* that the invention is in that element itself and not in the combination.

(Note.—This application has resulted in Patent No. 1,378,500, dated May 3, 1921.)

APPEAL from Examiners-in-Chief.

LAMP CONSTRUCTION.

Messrs. Lockwood & Lockwood for the applicant.

WHITEHEAD, *Commissioner:*

Applicant appeals from the decision of the Examiners-in-Chief affirming the action of the Primary Examiner finally rejecting the following claims:

6. The combination with a lamp casing, and a lens therefor, of a tiltable reflector within the lamp casing, a bellows having one end attached to said reflector, and means connected with said bellows for the passage of fluid for actuating the same whereby said reflector may be operated.

7. The combination with a lamp casing, and a lens therefor, of a tiltable reflector mounted within said lamp casing, a bellows mounted between said reflector and casing having one end attached to said reflector, and means for the passage of fluid for actuating said bellows and controlling the movement of said reflector.

The Examiner cited the following references: Starkweather *et al.*, 1,133,942, August 8, 1916; MacDonald, 1,198,466, September 19, 1916; Wolcott, 1,226,294, May 15, 1917.

Applicant's prior patent shows a tilting reflector, such as is disclosed herein, with a piston interposed between the lamp-casing and the reflector and connected to the manifold of the engine, so that when a valve in this connection is opened the air is exhausted from one side of the piston and the reflector caused to move. Claim 1 of that patent reads as follows:

1. The combination with an internal combustion engine, and a movable lamp, of means controlled by the suction of the engine for moving said lamp.

In the present application a bellows is used as the means for moving the reflector instead of a piston.

The Examiner rejected the claims on the theory that there was no invention in substituting for the flexible push-rod or the piston-motor of MacDonald, Wolcott, and Arbuckle, respectively, the bellows-motor of Starkweather *et al.*

On appeal the Examiners-in-Chief reversed this action on the ground that the bellows of Starkweather *et al.* was not a motor, but a mere pump for injecting a liquid into a chamber in the lens. They stated, however, that bellows-motors were old in the art and cited the patents to Gaisel, No. 330,221, November 10, 1885, and Fulton, No. 900,511, October 6, 1908, as showing bellows-motors which could be substituted for the various motors disclosed in the patents cited by the Examiner as a means for tilting the reflector and recommended rejection in view thereof.

The Examiner rejected the claims in accordance with the recommendation of the Examiners-in-Chief and also cited the patent to Roberts, No. 1,181,956, May 2, 1916, as showing a bellows-motor used to directly actuate movable devices which could be readily substituted or employed to move a reflector similar to applicant's.

It is argued that neither a bellows, such as shown in the Roberts patent, which is of the type employed in piano-players, nor that shown in the patent to Fulton, the walls of which are formed of corrugated sheet metal, could be used in place of the piston shown in applicant's prior patent. Reference is made to the testimony of applicant in an interference involving that patent, that he had found by experiment that the walls of the first type of bellows could not be made sufficiently pliable for his purpose without being so porous that they could not be operated by the small vacuum obtainable and that the walls of those of the other type could not be made thin enough to make the bellows sufficiently flexible to be contracted materially by the vacuum created at the intake-manifold.

The combination of the tiltable reflector and means for moving it connected to the manifold so as to be operated by the suction therein is shown in applicant's prior patent, and the references show bellows-motors, the Roberts patent showing an ele-

ment of a typewriter operated thereby. It is not seen that there was anything unobvious in the idea of using a bellows-motor in place of the piston if when it was attempted to make the substitution it was found necessary to devise a new type of bellows the invention lay in the bellows itself and not in the combination. (*In re Bliss*, 138 O. G., 1052; 39 App. D. C., 453; *in re Ratican*, 162 O. G., 540; 36 App. D. C., 95.)

The appealed claims are not limited to an arrangement in which the motor is "controlled by the suction of the engine," as are the claims of applicant's prior patent, but specify only means connected with the bellows for the passage of fluid for actuating the same. If, as applicant contends, the bellows of the prior art would not work satisfactorily when connected with the manifold of the engine, there is nothing to show that they would not work satisfactorily if other means were employed for exhausting the air therefrom.

Furthermore, the application does not even describe, much less claim, the particular type of bellows which it is said applicant found it necessary to use.

The decision of the Examiners-in-Chief is affirmed.

Trade-Mark Law—San Salvador.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., October 6, 1921.

The following note addressed to the Secretary of State by the Minister of San Salvador is published for the information of those concerned.

THOMAS E. ROBERTSON,
Commissioner.

San Salvador, August 6, 1921.

The Honorable THE SECRETARY OF STATE,
Washington.

SIR: I have the honor to inclose a copy and translation of a new Salvadorian trade-mark law promulgated on July 22, 1921, and published in the *Diario Oficial* of July 30, 1921. This law replaces the trade-mark law of May 11, 1910, and its reforms and additions of June 19, 1913, and July 12, 1916.

* * * * * * *

I have the honor to be, sir,
Your obedient servant,
MONTGOMERY SCHUYLER.

(Translation.)

LEGISLATIVE POWER.

The National Legislative Assembly of the Republic of Salvador, in use of its constitutional privileges, and hearing the opinion of the Supreme Court of Justice, decrees: the following trade mark law.

CHAPTER I.

Trade marks and their proprietorship.

ARTICLE 1. Any sign by which products of a factory, of agriculture or objects of commerce shall be considered as a trade or commercial mark.

ART. 2. A mark can be anything not prohibited by law and which serves to distinguish some articles from others, identical or similar; but of separate origin.

ART. 3. There shall not be registered as trade marks:

I. The flags, emblems, or shields, national or municipal, or flags or shields of foreign nations.

II. Neither the form or the color of the article.

III. General terms or expressions used to designate an article or which do not present any character of novelty in relation to the article for which they are used in whatever language it may be.

IV. Designations generally used in Spanish or in another language to indicate the nature of the article, its class or quality.

V. Immoral expressions or drawings.

VI. The name of a natural or juridical person if it is not presented in a peculiar and distinct form.

VII. A mark already registered or used by another, or like it if it had been destined for articles of the same nature.

VIII. The name or picture of a person if he or his heirs object.

IX. The insignia of the "Red Cross" provided, however, that the persons or firms who may have used it up to the present properly registered can not be molested or obliged to introduce any modifications, without prejudice to the rules that the Council of the Red Cross may promulgate.

ART. 4. Any owner of a trade mark, whether national or foreign, may acquire the exclusive right to use it in the Republic by submitting to the provisions of the present law.

ART. 5. The right of opposing the use of any mark which can produce directly or indirectly a confusion between the products should lie with the business man, commercial man or farmer who has fulfilled the procedure required by law.

ART. 6. The ownership of a mark passes to the heirs and can be conveyed by contract.

ART. 7. The cession or sale of the establishment comprises that of the mark, unless there is a stipulation to the contrary, and the buyer has the right of using the mark in question, even though the above mentioned mark is a name, in the same way as did the person ceding it without other restrictions than those expressly stated in the instrument of transfer.

ART. 8. The transfer of a mark should include the authentic instrument which shall be presented to the Patent Office for inscription in the Register of the transfer of trade marks. The transfer shall be included in a note on the margin of the original registry and the instrument of transfer shall be returned with annotation of being registered.

ART. 9. The registration of a mark gives the right to use it exclusively for the articles for which it was meant and for others included in the class to which the said articles belong.

ART. 10. The mark must necessarily be used in the articles for which it is destined. If it shall not be used within a year counting from the registration or shall be unused for a year, its cancellation may be requested. If the mark is foreign, the importation of the article into El Salvador is not necessary and the registration shall not be cancelled if the stipulations of this article have been complied with outside of the Republic.

CHAPTER II.

Registration and inscription.

ART. 11. Whoever desires to obtain the exclusive rights to a trade, commercial or agricultural mark shall apply to the Patent Office delivering his request for one mark unless two or more refer to a single article, except when the mark consists of two or more words or phrases of which one is the translation of the other; in this case the application may comprise all the marks, but the costs and fees shall be paid for each one.

ART. 12. In the application shall be given:

I. Name, profession and address of the owner of the mark.

II. A detailed description of the mark, giving its essential parts and the reserves which may be made concerning them. If the color of the mark constitutes an essential part of it as a distinctive element, a special description of the color shall be made.

III. The designation of the article or articles for which the mark is to be used.

IV. The nationality of the mark.

V. The name of the factory, if it has one.

VI. The name of the country and the city or the place where the article is principally made or used.

ART. 13. There shall accompany the application:

I. Documents proving the identity of the person applying, if necessary.

II. Twenty facsimiles of the mark. If the color of the mark constitutes an essential part of it as a distinctive element, the facsimiles shall be in the proper colors.

III. A cut of the mark which height shall be 20 to 30 millimeters and its length and breadth 15 to 100 millimeters.

IV. Receipt for the fees for registration given by the corresponding office.

ART. 14. The application having been made, the Patent Office shall note the day and hour of its presentation and shall number and mark each one of its sheets.

ART. 15. If the Patent Office finds that the application is in accordance with law and the mark is of those of which the registration is not prohibited, it shall allow the application and shall order published an extract from it together with facsimile of the mark three times in the official publication.

ART. 16. Ninety days having passed, counting from that following the third publication, without any opposition having been presented, it shall be declared that the mark is the property of the applicant and shall be ordered to register and to give the corresponding certificate.

ART. 17. In the event of opposition being presented within the said term, it shall be ordered to stop the procedure of registry and the parties shall be referred to the proper courts to prove their rights. Any one opposing shall present to the Patent Office, within ninety days following the date of the presentation of opposition, a certificate of having presented a corresponding request. If this certificate shall not be presented within the said time, the registry shall be ordered on the request of the interested party and the one opposing shall be condemned to pay costs, damages and injury. If the certificate of having filed the demand shall be presented with the said term, the work of registry shall remain suspended until the execution, or certificate of the executed sentence which may be involved in the judgment, shall be presented and then at the request of the party the registry shall be made, if the applicant won or in the contrary case it shall be declared void.

If the applicant for registry of the mark or the one opposing it desire to drop his application or opposition before the judgment in the courts has been recorded the Patent Office shall give a hearing to the other party and if he shall accept the dropping it shall be accepted; if he does not accept he shall ask that the jurisdiction of the Patent Office shall be suspended until the term shall come of the presentation of the proof of having filed the demand, or if the certificate of the decision of the common court is presented.

ART. 18. The certificate of registry shall be given in the name of the Republic and shall contain:

I. The facsimile of the mark.

II. The name, address and profession of the proprietor.

III. The date and hour of the presentation of the application for registry.

IV. The nationality of the mark.

V. The enumeration and classification of the articles for which it is meant.

VI. The date of registry, its number and that of the book and folio in which it has been done.

VII. The term of the duration of the registry, and

VIII. The seal of the office and the signature of the Commissioner and the Secretary.

The certificate of registry shall have annexed a certified copy of the application for registry; it shall be made in duplicate, one copy being given to the interested party and the other copy being kept in the archives of the office together with the corresponding file for giving certified copies to those desiring them. On the reverse side of the certificate of registry shall be printed articles 8, 9, 10, 19, 21 and 36 of this law.

ART. 19. If a mark shall have already been recorded any one considering himself injured shall apply for the cancellation of the registration. This case shall be examined by an ordinary suit and shall have full effect in five years counting from the date of the registration.

ART. 20. The right of preference for the ownership of a mark shall be accorded according to the use which has been made of it and not in this case from the day and hour in which the application has been filed in the office.

ART. 21. Registration of a mark is valid for twenty years only; this term ended, it shall be invalid if its renewal has not been obtained at the proper time. Each renewal to last for 20 years.

Every registration can be renewed before its term and after the payment of the fees prescribed by the law. The proper receipt having been presented to the Patent Office the renewal of the mark shall be noted in the register, and a certificate of renewal shall be given to the party at interest, as described in article 18 without other procedure.

ART. 22. The Patent Office shall preserve in its archives the trade marks which have been filed, with the respective files and the duplicates of the certificates of registry. To the files shall be attached the receipts for costs and fees and the applications for registry of transfer and renewals and copies of the documents showing the transfer.

There shall be kept books of trade mark registry, books of trade mark transfers and a book for entry of applications for registry and any other books necessary. Likewise there shall be kept an alphabetical index of the trade-mark register in the order of the names of the proprietors and another alphabetical index following the order of the articles to which the marks refer.

The registries shall be made one following the other without leaving more space between them than a line and following the order corresponding to the day and hour of the decree ordering the registry. In the same order shall be numbered the judicial records.

ART. 23. Appeal to the Ministry of Public Works is allowed from the resolutions of the Patent Office admitting or refusing an application for registry, or counter claim, allowing or refusing a registry or a certification, or proving the rights of an attorney and in general all resolutions causing or which might cause irreparable damage.

The time for appealing shall be ten days.

The appeal having been admitted the parties shall be summoned to appear before the third day to make use of their rights before higher authority. Whether or not they appear, the Ministry shall allow twenty days for the parties to present their allegations and proofs and this term having passed the case shall be decided even if the parties have not appeared or argued. In this instance notification shall be made by proclamation when the parties have not appeared or have not indicated a house in this city for the purpose. There shall be no other recourse from the decision of the Ministry.

CHAPTER III.

Of names, marks, etc.

ART. 24. The name of the merchant or producer, that of the partnership, that of the stock company, that of a sign or designation of a house or establishment dealing in certain articles or products, that of a periodical, office or agency, constitute an ownership as regards this law.

ART. 25. Whoever desires to carry on an industry, business or branch of trade already established by another person with the same name or with the same conventional designation shall adopt a modification making this name or designation visibly distinct from that used by the house or establishment already existing.

ART. 26. If the person injured by the use of a name shall not object within the term of one year from the day in which the use was openly begun by another, he shall lose his right to object. This case shall be examined by an ordinary suit.

ART. 27. The right to the exclusive use of a name as property shall end with the business house using it or with the ending of the kind of business to which it was destined.

ART. 28. The registry of a name is not necessary in order to enjoy the rights accorded by this law.

CHAPTER IV.

On counterfeits.

ART. 29. There is a counterfeit of a trade, commercial or agricultural mark in the following cases:

I. When the original mark is imitated in merchandise or products comprised in the same class as itself.

II. When there is sold or offered for sale merchandise having imitated marks.

III. When there is sold, bought or offered for sale imitated mark.

IV. When there is sold, offered for sale or bought original marks without the written consent of the owner.

V. When there are used marks which contain false information concerning the nature, quantity, quality, origin of the merchandise or products, or where it is falsely stated that they have won titles, medals, diplomas and other distinctions at expositions or in other ways.

VI. When without imitating the mark there are taken apart or separated certain articles for applying the mark.

VII. When a person places his name, that of his establishment or any word or sign over an original mark.

VIII. When containers with another mark are refilled with imitation products or are refilled with products which do not correspond to the lawful one described in the mark on the container; or when lawful products containing original marks are mixed with others different or imitations; and when these products are kept or sold. This last is presumed if kept in stores, shops or warehouses.

ART. 30. The Patent Office shall send to the office of each customhouse a facsimile of each registered or renewed mark, with a statement giving:

I. The name, profession and address of the proprietor.

II. The nationality of the mark.

III. The enumeration of the article for which it is meant.

IV. The date of the registry or renewal, its number and that of the book and folios in which it has been done.

V. The date of expiration of the registry.

On the expiration of a registry of a mark, the office will advise the same custom houses.

ART. 31. When it is a question of importing merchandise with imitated marks the director of customs will place them at the disposition of the proper courts.

ART. 32. It shall be presumed that an article has an imitated mark, if it is imported from a country different from that fixed in the application, according to article 12.

ART. 33. Any machine or instrument for imitating a mark shall be confiscated.

CHAPTER V.

[Gives the classification of the articles, 127 classes.]

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CHAPTER VI.

Tariff for registry.

ART. 35. Stamped paper used in the registry office shall be of 20 cents each sheet. The certificate of registry of trade mark shall be given on plain paper with revenue stamps for five colones on the first sheet and of ten cents on each subsequent sheet. Certified copies of the certificates of registry shall have revenue stamps of two colones on the first sheet and of 10 cents on each following sheet.

ART. 36. The fees for registry of a mark and those for renewal shall be: for natives, 10 colones; for foreigners, 20 colones. The fees for transferring a mark by an act between living people shall be ten colones. Added to the fees established above, there shall be paid for each mark

and for the time the registry lasts an annual tax of three colones for Salvadorians and five colones for foreigners; this payment having to be made by deposits of five annual payments in advance and the proper receipt being presented to the Patent Office within the first month of the corresponding period and if it shall not be presented the privilege shall be declared void and the office shall cancel the registry.

ART. 37. The notice spoken of in Art. 15 of this law shall not cost the interested party more than six colones.

ART. 38. All the laws concerning the registry of trade marks, directly or indirectly, with stamp dues or stamp paper, are abrogated.

CHAPTER VII.

ART. 39. The trade mark law of May 11, 1910, and its amendments and additions of June 19, 1912, and July 12, 1916, are abrogated.

ART. 40. With regard to the payment of annual taxes, the laws in force at the date of the application for registry shall apply, but with respect to marks renewed since this law is in force, the same shall apply as in regard to stamp paper and revenue stamps.

Given in the Hall of Sessions of the Legislative Power, National Palace, San Salvador, the twentieth day of the month of July, one thousand nine hundred and twenty one.

SALVATOR FLORES,
Vice President.
RAFAEL JUSTINIANO HIDALGO,
2d Sec.
BENJ. LOPEZ,
2d Pro-Sec.

National Palace: San Salvador, July 22, 1921.
Let it be published.

JORGE MELENDEZ,
Minister of Public Works.
BALTASAR ESTUPINIAN.

[Vol. 291. No. 3.]

Patents Nos. 1,386,732 to 1,394,517.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

Vol. 291—No. 3. TUESDAY, OCTOBER 18, 1921. Price—$5 per year.
[PUBLISHED OCTOBER 18, 1921.]

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

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Issue of October 18, 1921.

Patents	786—No. 1,393,732 to No.	1,394,517, inclusive.
Designs	48—No. 59,401 to No.	59,448, inclusive.
Trade-Marks	82—No. 147,447 to No.	147,528, inclusive.
Labels	62—No. 23,440 to No.	23,507, inclusive.
Prints	34—No. 5,768 to No.	5,801, inclusive.
Reissues	4—No. 15,207 to No.	15,210, inclusive.
Total	1022	

Interference Notice.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., October 7, 1921.

Isaac Newlin, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Simon Levi Company, 715 F Street, San Diego, Calif., for registration of a trade-mark and trade-mark registered April 6, 1921, No. 51,407, to Isaac Newlin of New York, N. Y., and having failed to obtain service upon the registrant, notice is hereby given that unless said Isaac Newlin, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

Adverse Decisions in Interference.

PATENT No. 1,063,152.

On August 19, 1921, a decision was rendered that Albert Henry Midgley and Charles Anthony Vanderwell were not the first inventors of the subject-matter covered by claim 2 of their Patent No. 1,063,152, subject, "Dynamo-electric machine particularly applicable for ignition purposes in connection with internal-combustion engines," and no appeal having been taken within the time allowed such decision has become final.

Printed Copies of Patents.

A printed copy of the complete specification and drawings of any patent published herein can be obtained for ten cents.

Important Information.

In ordering manuscript copies much time will be saved if the order states specifically what is desired, viz:

Application as originally filed. (Petition, specification, oath, and drawings as received.) Application as amended. (Petition, specification, oath, and drawings with amendments entered.)

Application as allowed. (Petition, specification, oath, and drawings as passed by the Examiner for issue.)

Original application. (Facsimile petition, specification, oath, and drawings at present time.)

Specification as originally filed. (As received in Office.)

Specification as amended. (With amendments entered.)

Specification as allowed. (As passed by the Examiner for issue.)

Original specification. (Facsimile at present time.)

File-wrapper. (File-wrapper only.)

File-wrapper and contents. (File-wrapper, contents of record, including photoprints of any tracings or of prints within file-wrapper. In patented cases, printed copy of the specification and drawings of the patent is furnished.)

File-wrapper, contents, and drawings. (File-wrapper and all of the contents of record, including photoprints of any tracings, exhibits, or prints within the file-wrapper. In pending cases, photoprints of the pending drawings only, omitting any canceled. If patented, copy of the specification and drawings of the patent being furnished, photoprints are not made of the original drawings unless specially ordered. If canceled drawings are wanted, they must also be specially ordered.)

Assignment. (Give the liber and page of the record as well as the name of the inventor.)

Printed publications in possession of the Office. (Give title and date of publication, also page and exact portion to be copied.)

Orders for copies of any other records not mentioned above must state specifically the exact paper to be copied.

Patent Office Publications.

The stock of the following publications is held for sale by the Patent Office, and orders for same should be addressed to the Commissioner of Patents:

Weekly Issue—Annual subscription	$1.00
Commissioner's Decisions:	
Weekly edition—Annual subscription	2.00
Single numbers	.05
Trade-Mark Supplements:	
Weekly edition—Annual subscription	2.00
Single numbers	.05
Manual of Classification of the German Patent Office, (translated,) paper cover	1.00
Index to German Classification	1.00
Definitions of Revised Classes and Subclasses, edition of 1913, (Bulletins 1 to 27, inclusive)	.50
Bulletins, excepting Nos. 28 and 29, (new out of print,) published since 1912, each	.10

Other publications than those above named, exclusive of printed copies of patents, trade-mark registrations, etc., formerly sold for sale by the Patent Office, have been transferred to the Superintendent of Documents, Government Printing Office. Orders for such publications should now be sent to the Patent Office, but to the Superintendent of Documents, to whom all remittances for such publications should be made payable.

Printed copies of specifications and drawings of patents, trade-mark registrations, etc., will be furnished by the Patent Office, as heretofore.

Condition of Applications Under Examination at Close of Business October 8, 1921.

Room No.	Divisions, Examiners, and subjects of inventions (Oldest new case, Oct. 16; oldest amended, Dec. 24.)	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
214	1. LOEFFLER, F. S., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	May 3	May 14	772
126	2. BALDWIN, M., Bee Culture; Dairy; Matting; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Jan. 10	Feb. 21	1,088
175	3. RICH, WM. J. Electric Heating and Electrolysis; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Jan. 10	Dec. 24	840
234	4. MERRITT, A. D., Conveyers; Conveyers, Fluid-Current; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Oct. 16	Apr. 30	1,004
167	5. MACNAB, J. F., Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Dec. 8	Jan. 14	922
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Mar. 10	June 17	943
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes.	Mar. 21	May 24	1,874
131	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	July 5	Aug. 25	706
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Nov. 12	July 12	1,028
235	10. MITCHELL, T. H., Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Mar. 21	July 11	1,199
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Buttons, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	June 15	July 16	422
222	12. PIERCE, P. F., Machine Elements.	Mar. 1	June 22	1,180
323	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Nov. 18	July 27	1,671
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Dec. 11	July 18	886
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Oct. 22	Feb. 16	1,710
111	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony.	Oct. 29	Feb. 12	1,778
307	17. RAFTER, G. S., Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Feb. 7	May 13	1,001
239	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Dec. 23	Feb. 18	1,770
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Dec. 13	Mar. 19	955
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Apr. 7	May 27	1,479
212	21. THURBER, W. L., Brakes and Gins; Carding; Clock-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Mar. 1	June 6	661
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making.	May 26	July 16	536
217	23. GROESBECK, W. D., Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Jan. 5	Apr. 10	836
144	24. DARBY, J. J., Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines.	Jan. 10	May 31	1,098
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	July 23	July 28	396
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime Mover Dynamo Plants.	Feb. 18	May 4	802
214	27. ANDERSON, L. S., Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus.	Apr. 2	June 1	1,427
235	28. BENSON, A. E., Internal-Combustion Engines.	Jan. 20	Apr. 25	1,235
147	29. MORRIS, D., Boring and Drilling; Button Making; Cranks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Feb. 2	July 22	780
152	30. SULLIVAN, M. E., Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines.	Mar. 5	July 20	1,201
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Nov. 8	Jan. 5	2,006
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange.	Dec. 9	July 5	1,018
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Mar. 22	May 19	758
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	Aug. 4	Aug. 1	306
57	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	July 2	Aug. 15	660
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	May 6	Apr. 22	1,559
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers.	Feb. 8	Feb. 14	1,577
379	38. IDE, G. B., Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	May 6	May 5	1,170
220	39. COWLES, A. W., Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Oct. 25	Jan. 12	1,026
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Jan. 10	Mar. 19	2,245
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels.	Apr. 14	Apr. 7	857
114	42. CUTTING, H. G., Electrical Conduits and Housings; Electric Signaling; Electric Lamps.	Dec. 7	Jan. 7	1,492
382	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Dec. 20	Jan. 12	1,600
253	44. SHAFFER, C. H., Air-Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration Ships.	Jan. 10	July 15	471
379	45. GILES, A. H., Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices.	Mar. 21	May 2	1,185
332	46. WOLCOTT, C. L., Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Mar. 11	Mar. 11	1,130
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid Pressure Brake and Analogous Systems.	Jan. 24	May 7	1,135
163	48. ROEPKE, O. B., Electricity, Conductors; Electricity, General Applications.	Jan. 26	Feb. 4	1,803
	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, Jr.			
	Trade-Marks.	Nov. 30	July 28	2,819
	Designs.	Mar. 21	May 10	2,206
	Labels and Prints.	Sept. 1	Sept. 17	286

Total number of applications awaiting action, excluding Trade-Mark division, 56,966: Trade-Mark division, 6,291.

PATENTS

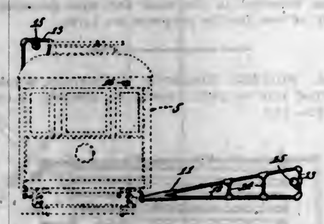
GRANTED OCTOBER 18, 1921.

1,393,732. ELECTRIC HEATING UNIT. CHARLES C. ABBOTT, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Dec. 17, 1920. Serial No. 431,467. 8 Claims. (Cl. 219—67.)



5. An electric heating unit comprising a metallic casing, a core of insulating material in said casing having a groove, a helical resistance element supported on said core with its axis in said groove having one end connected to the casing, a terminal supported within the casing and insulated therefrom for the other end of said resistance element, and granular insulating material packed within the casing around the core and the resistance element.

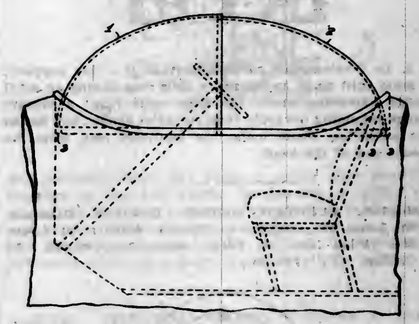
1,393,733. SAFETY-BAR. MARJORIE BELLE ARMITAGE, Colorado Springs, Colo. Filed Nov. 20, 1920. Serial No. 425,462. 4 Claims. (Cl. 105—341.)



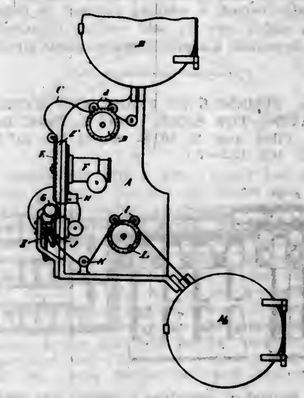
1. In combination with a hinged step of a car, a guard, a shaft having a right angled extremity connected to the step, one end of the guard being secured to the shaft to move therewith, and said guard adapted to move to a horizontal position at one side of the car.

1,393,734. WEATHER SCREEN OR HOOD FOR MOTOR-CARS. ROBERT WILLIAM ANDERSON, Liverpool, England. Filed Feb. 18, 1920. Serial No. 359,587. 1 Claim. (Cl. 296—107.)

A hood of the character described comprising a pair of substantially quarter-spherical shaped sections mounted for sliding movement and being receivable one within the other by relative rotation of said sections, a frame supporting said sections, a two part casing carried at the lower edge of one of said sections, said casing having undercut faces, a retaining member secured to the frame and projecting between the parts of said casing and including undercut faces engageable with the corresponding undercut faces of the casing to anchor said section and frame together, and antifriction bearing devices arranged to either side of said retaining member and between the frame and section to receive the weight of the latter.

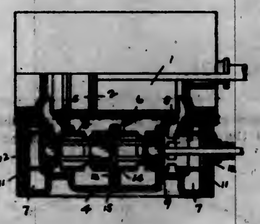


1,393,735. APPARATUS FOR PROJECTION OF MOTION-PICTURES. CARLOS ANSELMI and MARCELINO VITUERO, Buenos Aires, Argentina. Filed June 17, 1920. Serial No. 389,750. 12 Claims. (Cl. 88—18.6.)



1. In combination with the projection apparatus of a moving picture machine, a gripping device, free from film-engaging projections, for gripping the film, means engaging with the film, for advancing it intermittently and means for intermittently operating said gripping device and said advancing means so that the film is advanced while the gripping device is in film-gripping position.

1,393,736. STEAM-ENGINE. EDWIN J. ARMSTRONG, Erie, Pa., assignor to Ball Engine Company, Erie, Pa., a Corporation of Pennsylvania. Filed Jan. 5, 1916. Serial No. 70,416. 4 Claims. (Cl. 121—193.)



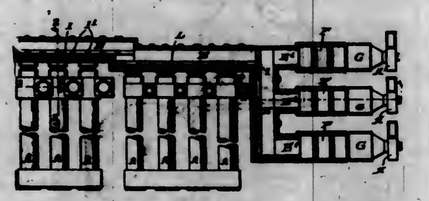
1. In a valve head, the combination of a ring support; a main split ring; an auxiliary split ring having an axial flange extending under the main split ring; a closure flange extending inwardly from the axial flange; and means for admitting steam under the auxiliary ring from the steam end of the head.

1,393,737. ELECTRIC METER. EDWIN C. BALLMAN, St. Louis, Mo., assignor to Stahl A. Whitten, St. Louis, Mo. Filed Nov. 15, 1918. Serial No. 262,895. 17 Claims. (Cl. 171—95.)



1. An electrical measuring instrument, comprising, a permanent field magnet, an indicating armature movable in the field thereof, a winding adapted to deflect said armature, and a core for said winding constructed and arranged to provide a nearly closed magnetic circuit.

1,393,738. CEMENT-KILN PLANT AND METHOD OF OPERATING THE SAME. JOHN E. BELL, Brooklyn, N. Y. Filed Aug. 2, 1918. Serial No. 247,923. 6 Claims. (Cl. 122—7.)

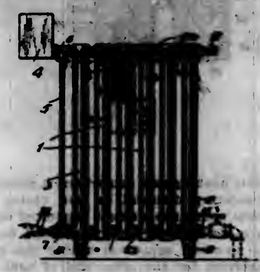


1. The method of operating a cement kiln plant comprising a plurality of rotary cement kilns, a waste heat boiler section and a flue into which the individual kilns open at points at varying distances from the boiler section, and which connects the series of kilns to said boiler section, which consists in throttling the connection between each kiln and the flue to such an extent as to make the pressure drop or draft consumption between each kiln and the flue greater than the total pressure drop or draft consumption in the flue and maintaining such draft conditions throughout the connected parts of the system as will compensate for the resistance created by the throttling of said connections and bring about a sufficient and an approximately even draft in the kilns.

1,393,739. ELECTRIC BATTERY. RAYMOND C. BENNER and HARRY F. FRENCH, Fremont, Ohio, assignors to National Carbon Company, Inc., a Corporation of New York. Filed Jan. 16, 1919. Serial No. 271,489. 10 Claims. (Cl. 204—41.)

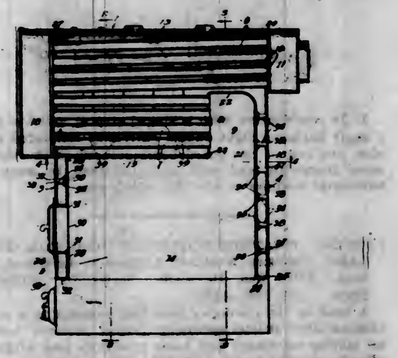
1. In electric batteries, a negative electrode of zinc having bismuth material associated therewith.

1,393,740. RADIATOR. PIERRE JOSEPH HENRI BERNARD, Montreal, Quebec, Canada. Filed June 12, 1920. Serial No. 388,506. 1 Claim. (Cl. 237—262.)



A radiator comprising a plurality of standard sections, each section comprising a casting consisting of a base portion and a head portion, a pair of parallel spaced columns connecting the head portion and the base portion, and the outer walls of the head and base portion having internally threaded aligning openings therein, copper tubes threaded at their opposite ends within said openings and extending through the columns in spaced parallel relation thereto, and plugs threaded in the head and base portions, substantially as and for the purposes set forth.

1,393,741. BOILER. ROBERT W. BIRCHFIELD, Waukegan, Ill. Filed July 30, 1920. Serial No. 399,909. 6 Claims. (Cl. 122—74.)



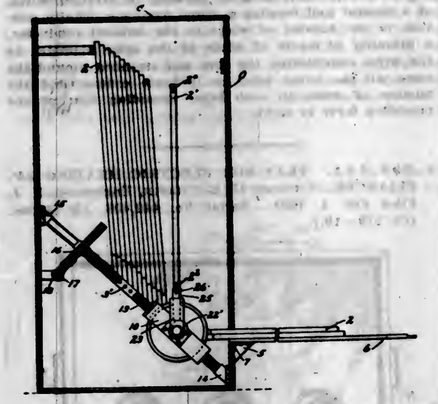
1. In a boiler of the kind described, in combination, an outer shell, flues therein, and crown and side sheets, the fire box between said side sheets including a main combustion space and an auxiliary combustion space rising above and end of the main combustion space, the sheets at the sides of said main and auxiliary combustion spaces together with the main crown sheet being formed from a single plate, and a single plate forming the back sheet, the crown sheet for the auxiliary combustion space and the flue sheet adjacent thereto.

1,393,742. AIR-COMPRESSOR. EMORY LEE BLEVINS, Pattonhill, Mont. Filed Aug. 3, 1920. Serial No. 400,982. 3 Claims. (Cl. 230—27.)



1. A device of the character described comprising a cylindrical shell provided intermediate its ends with an air inlet opening and provided adjacent its ends with outlet openings, a power driven reciprocatory piston rod within said shell, pistons secured upon said rod and provided with outwardly opening spring-pressed valves, a second piston rod within the shell, pistons on said second named rod and positioned appreciably closer together than said first named pistons, said second named pistons being provided with outwardly opening valves and being formed with openings through which said first named piston rod is slidable, racks formed on said piston rods, a transverse shaft, and pinions of different diameters meshing with the respective racks.

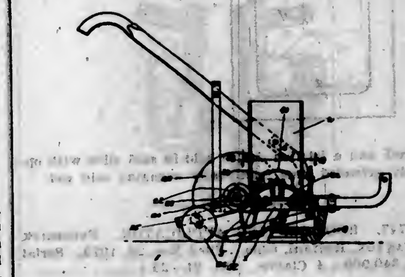
1,393,743. EXHIBITING DEVICE. WILLIAM G. BLODGETT and MARLON H. ROACH, Los Angeles, Calif. Filed Mar. 19, 1920. Serial No. 367,141. 5 Claims. (Cl. 211—22.)



1. An exhibiting device comprising a series of display frames each pivoted to swing on its own axis; the axes being equally spaced in parallel positions; the frames constructed and arranged to stack in different angular positions about their axes; and a traveling device movable in the plane of the axes and transversely thereto so as to successively pick up and swing each of the frames about its axis.

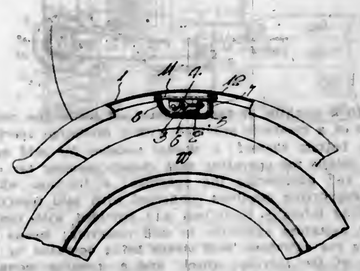
1,393,744. PLANTER. JOHN BLUE, Laurinburg, N. C. Filed Sept. 19, 1919. Serial No. 324,918. 1 Claim. (Cl. 221—126.)

In a planter the combination with a seed hopper having an outlet, a seed plate mounted for rotation in the hopper and having peripheral cells movable to the outlet, and means movable downwardly through the cells successively to eject seeds and to impart an intermittent rotation to the plate, of a housing secured to the hopper and extending over those cells above and adjacent the outlet, the inner wall of the housing being adjacent the cells



and concentric with the plate, a cut-off gate pivotally mounted at one end within the housing, a spring engaging the other end portion of the gate for holding said end portion yieldingly in contact with the seed plate, and means on the housing for limiting the downward movement of the gate under the action of the spring.

1,393,745. TIRE-CHAIN GUARD. CHARLES A. BULL, Albion, Nebr., assignor to The B.-M. Products Company, Inc., Albion, Nebr. Filed Aug. 23, 1920. Serial No. 405,428. 1 Claim. (Cl. 280—153.)

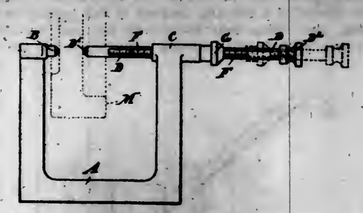


The combination with a wheel fender and a supporting device positioned beneath the fender and extending in spaced relation thereto, of a guard extending beneath the supporting device and having its side edge portions bent inwardly to provide flanges and its end portions carried upwardly to provide a bottom and end walls, the end walls engaging the underface of the wheel fender in front of and to the rear of the supporting device, and a securing bolt extending through the end walls of the guard and extending above and supported upon the supporting device and held against rotation, the bolt being provided with a nut at one end engaging the underface of the wheel fender and held against rotation thereby.

1,393,746. CALIPERS. JOHN S. BUSHNELL, New York, N. Y. Filed Feb. 13, 1920. Serial No. 358,465. 6 Claims. (Cl. 33—143.)

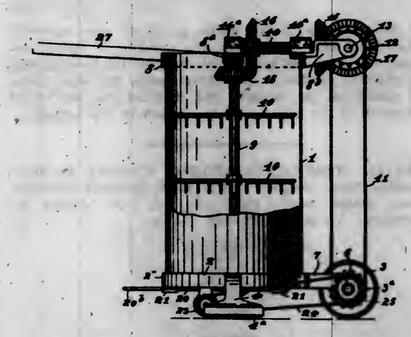
1. In a device of the character set forth, a frame having two arms, an anvil on one arm, a tubular guide on the other arm, a measuring rod non-rotatable but endwise

movable in said guide for cooperation with said anvil, frictional means cooperating with said rod, a slide on



said rod, and a friction device held in said slide with oppositely extended ends frictionally engaging said rod.

1,393,747. ROOF-COATING APPLICATOR. FREDERICK I. CANNON, Bedford, Ohio. Filed Nov. 26, 1919. Serial No. 340,909. 4 Claims. (Cl. 91—25.)



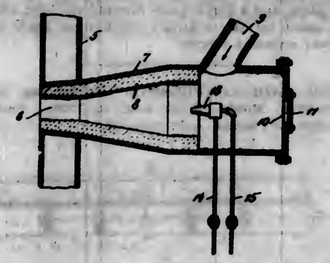
1. In a machine of the character set forth, the combination of a reservoir provided with a discharge aperture in the bottom thereof; a closure member for said aperture; means for operating said closure member for covering and uncovering the aperture; a traction wheel, fixed supporting members connected with said reservoir, extending laterally therefrom and provided with runner shoes; agitators operative in said reservoir; means for driving the agitators, said means being operated by the action of the traction wheel; and a spreader mounted on the under side of the reservoir.

1,393,748. METHOD OF TREATING VANADIUM ORES AND SOLUTIONS. ARTHUR HOWE CARPENTER and GILBERT ALBERT BAUMANN, Sawpit, Colo., assignors to The Colorado Vanadium Corporation, Sawpit, Colo., a Corporation of Colorado. Filed May 13, 1920. Serial No. 381,187. 6 Claims. (Cl. 23—13.)

1. A method of precipitating an insoluble compound of vanadium from a solution of vanadium salt, which comprises adding an alkali metal acid sulfate thereto.

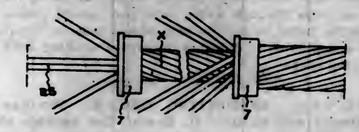
1,393,749. BLAST-FURNACE. ALEXANDER B. CARSTENS, Monterey, Mexico, assignor to The American Metal Company, Limited, a Corporation of New York. Filed Dec. 8, 1919. Serial No. 343,437. 6 Claims. (Cl. 266—14.)

1. In a metallurgical blast furnace, the combination of a conductor for the blast providing a combustion chamber, means for supplying a blast of oxidising gas to the combustion chamber, a fuel burner within said chamber, and means for supplying fuel and an oxidising



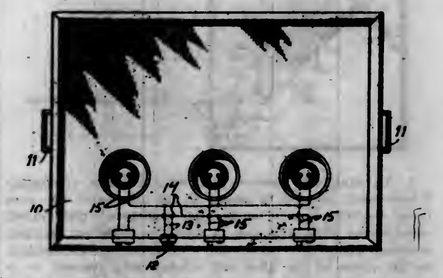
agent to said burner, said fuel being burned within said chamber so that the combustion products thereof commingle with said blast.

1,393,750. SECTOR-CABLE. HILTON P. M. CARTER, Montreal, Quebec, Canada. Filed Feb. 28, 1920. Serial No. 362,164. 3 Claims. (Cl. 173—264.)



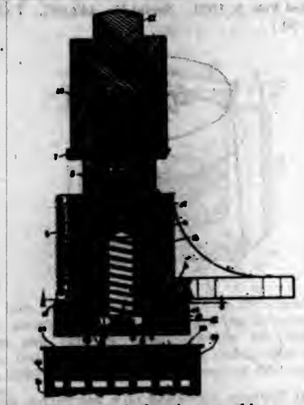
3. A conductor of sector shaped cross-section consisting of a core comprising a plurality of straight wires, of a number and forming a shape having a definite relation to the number of wires in the finished conductor, a plurality of layers of wires of the same diameter as the wires constituting the core and stranded around the same, all the wires being in intimate contact and the number of wires in each layer exceeding that of the preceding layer by eight.

1,393,751. TRAY FOR ELECTRIC HEATING APPLIANCES. CHARLES H. B. CHAPIN, Englewood, N. J. Filed Feb. 4, 1921. Serial No. 442,403. 6 Claims. (Cl. 219—19.)



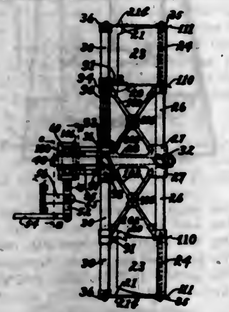
1. A tray adapted to receive electric heating appliances and provided with a plurality of connector elements for detachably receiving said electric heating devices and supplying current thereto, and means carried by said try for receiving current from a single source and supplying the same to the connector elements and therethrough to the heating appliances.

1,393,752. MACHINE FOR MAKING FLANGED HEADS OR ENDS FOR PAPER OR PULP CONTAINERS. FREDERICK COATES, Wyoming, Ohio, assignor to The Federal Products Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 21, 1920. Serial No. 390,614. 1 Claim. (Cl. 113—48.)



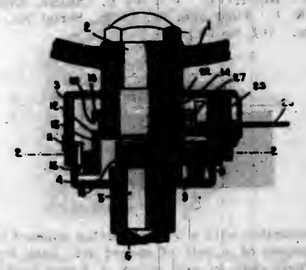
In a flanged head forming machine, a reciprocally mounted sleeve having a pressure plate thereon, a series of pressure blocks upon said pressure plate having their outer faces shaped to conform to the shape of a head to be formed and having their inner ends tapered, a plunger within the sleeve having its end in engagement with the inner ends of the pressure blocks and tapering for cooperation therewith, means for receiving the blank of a container head to be formed and for permitting the entrance of the pressure plate and blocks for forming the blank into a flanged container head therein, said plunger having a recess or chamber and said plate having a lug centrally located thereon, a spring mounted on said lug and extending into said recess for withdrawing said plunger, means for returning the pressure blocks to retracted position and means for withdrawing the pressure plate from head forming position.

1,393,753. AEROPLANE-PROPELLER. GUY B. COLLIER, Kinderhook, N. Y. Filed July 15, 1918. Serial No. 244,841. 2 Claims. (Cl. 170—163.)



1. A propeller comprising inner and outer tubular shells, a series of blades interposed between the shells, a spider having a series of tubular spokes supporting the front edge of the inner shell, a second and similar spider supporting the rear edges of the inner and outer shell, and means for simultaneously varying the angularity of all the blades.

1,393,754. AUTOMOBILE-LOCK. CHARLES N. COLSTAD, Norfolk Downs, Mass., assignor to Masters Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed July 1, 1920. Serial No. 393,270. 9 Claims. (Cl. 70—129.)



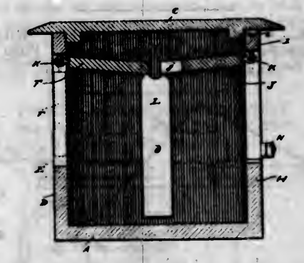
1. In an automobile lock the combination with a stationary housing having internal gear teeth, of a steering shaft carrying planetary gearing meshing with said gear teeth, a stub shaft to which the steering wheel is attached, a gear thereon meshing with said planetary gearing, a locking element rotatable with said steering shaft, and means to cause said locking element to have interlocking engagement with said stationary gear teeth thereby to lock said steering shaft from rotation.

1,393,755. MATTRESS AND THE LIKE. GEORGE ARTHUR CONLAN, Toronto, Ontario, Canada, assignor of one-half to Alan C. Thompson, Toronto, Ontario, Canada. Filed Dec. 8, 1920. Serial No. 429,125. 2 Claims. (Cl. 5—13.)



1. A mattress comprising a fibrous filling; an edging of coil springs having their axes normal to the top and bottom surfaces of the mattress; a ticking; and tufting securing the parts of the mattress together.

1,393,756. TRAP-NEST. JOSEPH F. COOK, San Francisco, Calif. Filed Oct. 7, 1920. Serial No. 415,897. 5 Claims. (Cl. 119—49.)



1. A poultry trap nest comprising a nest box having solid top, bottom, and side walls, front and rear doors hingedly mounted to swing inwardly and outwardly, means for limiting the outward swing of said doors, and

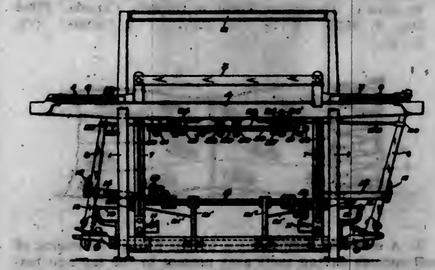
a common latch means within the nest box to maintain said doors in horizontal position within the nest to permit free passage through the same from the front or rear.

1,393,757. BEEHIVE. WALTER E. CREASE, East Greenwich, R. I. Filed Jan. 21, 1920. Serial No. 352,939. 1 Claim. (Cl. 6—10.)



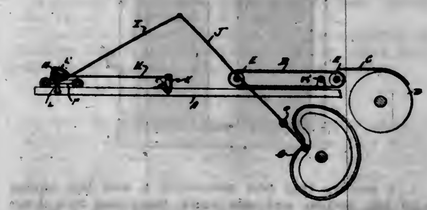
In combination with a beehive having opposed ledges, a cage composed of a pair of spaced side bars formed to seat at their ends on said ledges, a frame having a foraminous covering secured to the bars and depending therefrom, transverse bars secured to the frame and within the covering and extending transversely of the side bars, strips carrying brood combs supported at their ends on the transverse bars, and a removable top for the cage consisting of a rectangular frame having a mesh filler fitted in the space between the side bars of the cage so as to be held in position by the side bars of the cage.

1,393,758. RECOIL PICKING MECHANISM FOR LOOMS. GEORGE CROMPTON, Jr., Worcester, Mass. Filed Apr. 21, 1921. Serial No. 463,252. 16 Claims. (Cl. 139—22.)



1. Picking mechanism for looms comprising spring means for at least partially stopping the shuttle in its box and adapted to be displaced by the shuttle in entering, said spring means acting oppositely to the motion of the shuttle in entering its box and co-acting means substantially preventing increase in the intensity in the action of said spring means as the shuttle goes into its said box.

1,393,759. ELECTRIC SHEET-DRIER. WILLIAM J. DANINGBURG, Windsor, Ontario, Canada. Filed Apr. 30, 1920. Serial No. 377,913. 6 Claims. (Cl. 34—18.)



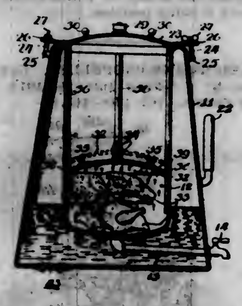
4. In combination with means for causing the travel of printed sheets thereover, a drying member comprising an inclosing shell, a series of resistance elements located therewithin, and insulated wires leading to connection with an external source of electricity for energizing said resistance elements, thereby heating said inclosing shell.

1,393,760. COLLAR-FASTENER. JOHN DEAN, Racine, Wis. Filed Feb. 3, 1921. Serial No. 442,037. 7 Claims. (Cl. 24—90.)



7. A collar fastener consisting of a flat button member adapted to be buttoned to the collar through the rear button hole thereof, a flat member of sheet material adapted to be tucked up into the rear pocket of a shirt neck band, and a flexible connection joining said members and of a length to extend up to said button hole and under the lower edges of the collar and neck band to the lower edge portion of said member extending upwardly in said pocket.

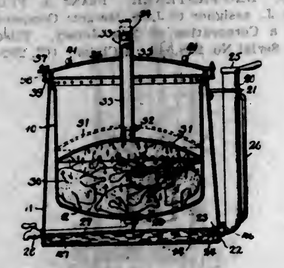
1,393,761. COOKING APPARATUS. ALFRED M. DEMUTH, Chicago, Ill., assignor to Demuth Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed July 28, 1920. Serial No. 399,572. 10 Claims. (Cl. 53—1.)



1. A cooking apparatus embodying a cooking chamber, a baffle within and extending across the chamber, said baffle confining the steam therebeneath and being freely movable by the action of the steam thereupon, toward and away from the article to be cooked and supported upon and by said article, and a closure for the chamber.

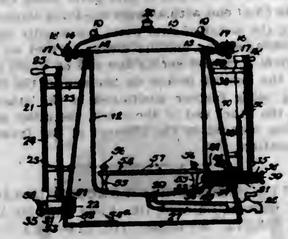
1,393,762. COOKING APPARATUS. ALFRED M. DEMUTH, Chicago, Ill., assignor to Demuth Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 1, 1920. Serial No. 414,104. 7 Claims. (Cl. 53—1.)

1. A cooking apparatus embodying a cooking chamber, a detached downwardly opening deflector within and extending across the chamber, said deflector being adapted to engage and rest against the articles of food in the chamber and operating to direct vapor circulating thereagainst back against the articles of food, a closure for the chamber, a tubular member connected with the baffle, opening therethrough and extending thereabove, and a



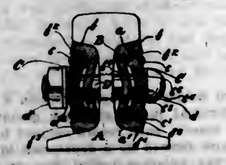
safety blow off valve for controlling the opening in the tubular member, the said closure having an opening therethrough and through which opening the said tubular member freely slides by the rising and falling movements of the baffle caused by the influence of the vapor acting thereon.

1,393,763. COOKING APPARATUS. ALFRED M. DEMUTH, Chicago, Ill., assignor to Demuth Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 13, 1920. Serial No. 423,914. 17 Claims. (Cl. 53—1.)



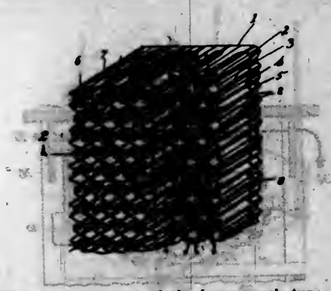
1. An apparatus of the character described embodying a cooking or treating chamber, a tank in which liquid is converted into vapor, said tank and chamber being out of communication with each other and having a common wall therebetween, a liquid supply holder having a discharge outlet opening into the said chamber, means for controlling the said opening, and a closure for the chamber.

1,393,764. RAIL-JOINT. HARRY E. DOERR, St. Louis, Mo., assignor to Scullin Steel Co., St. Louis, Mo., a Corporation of Missouri. Filed June 8, 1921. Serial No. 475,869. 14 Claims. (Cl. 238—244.)



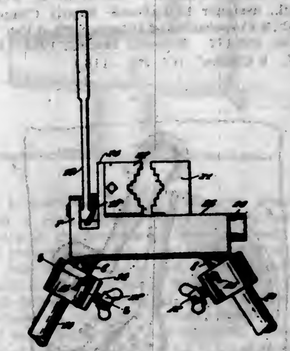
12. In a rail joint, a vertically extensive fish plate and a toggle plate expander having rocking bearings against said fish plate.

1,393,765. RADIATOR. CHARLES A. DRAGERITE, Cincinnati, Ohio. Filed Sept. 22, 1920. Serial No. 413,947. 3 Claims. (Cl. 257—130.)



1. In a radiator core of the honey-comb type, a series of units set in staggered relation with relation to the corrugations therein, with the walls of the units spaced apart internally of the radiator to permit longitudinal passage of water therebetween, said corrugations being formed essentially of large corrugations interspaced by small corrugations, with the crests of the large corrugations formed into small corrugations shaped alike to the alternate small corrugations.

1,393,766. PORTABLE PIPE-VISE STAND. WILLIAM S. DU CHARME, Cleveland, Ohio. Filed Apr. 29, 1920. Serial No. 377,435. 1 Claim. (Cl. 81—41.)



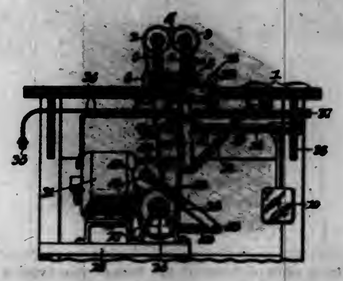
The combination with a top plate having parallel upstanding flanges 25 thereon, and a cross flange 7 at one end of said flanges, of a bar 20 slidable lengthwise between said flanges 25, an adjustable jaw on said bar, a fixed jaw mounted on one of said flanges 25, between said adjustable jaw and the cross flange, and an operating device pivoted between said fixed jaw and said cross flange and engaging the said bar 20 to shift the same.

1,393,767. DENTAL-BRIDGE CONSTRUCTION. LEO E. EVELIN, New York, N. Y. Filed Feb. 24, 1919. Serial No. 278,874. 6 Claims. (Cl. 32—12.)



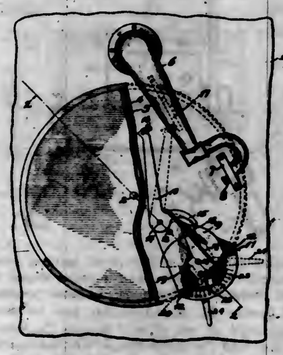
1. An artificial tooth having a pin embedded therein, a member mounted on the pin and rotatable thereon, and an element for supporting said element on another tooth.

1,393,768. WRAPPING-MACHINE. ABRAHAM FEIFER, Philadelphia, Pa. Filed Jan. 15, 1920. Serial No. 351,682. 5 Claims. (Cl. 93—5.)



1. A wrapping machine comprising a pair of yieldingly separable rolls normally maintained close together; an endless belt with a bight normally running free and slack over said rolls, so that it may be depressed between them by an article to be wrapped to form a loop about the article, and a bight normally hanging slack from them; and driving means for said belt engaging said latter bight.

1,393,769. PHONOGRAPH. RAYMOND R. FOUTS, Chicago, Ill., assignor to Lakeside Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 16, 1920, Serial No. 359,177. Renewed Jan. 27, 1921. Serial No. 440,527. 9 Claims. (Cl. 192—116.)



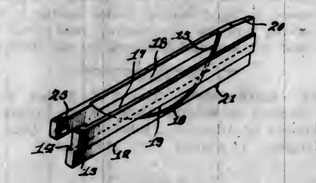
1. A phonograph including a disk record supporting turn table; a tone arm mounted at one end upon one side of the turn table axis to swing over the turn table and carrying at its other end a transmitter that is provided with a stylus which is engageable with record grooves to swing the tone arm and propagate sound therethrough; a pivoted arcuate rack eccentric with respect to its pivot; a pivoted dog engageable with the rack to hold the rack in adjusted position and to be held in adjusted position by the rack, the dog being adjustable to be given a releasing movement from the rack by the tone arm at the conclusion of a record, the curvature of the rack being of increasing radius in the direction of its restoring movement to enable it to escape the dog when released as well as to hold the dog in different angular adjustments to correspond with the different positions to which disk records of different length will swing the tone arm; means for stopping the turn table; and means for operating the stopping means and restoring the released rack.

1,393,770. BAG-FASTENER. FRANZ A. FULLER, Newark, N. J., assignor to J. E. Mergott Company, Newark, N. J., a Corporation of New Jersey. Filed Dec. 24, 1917. Serial No. 208,646. 1 Claim. (Cl. 292—228.)



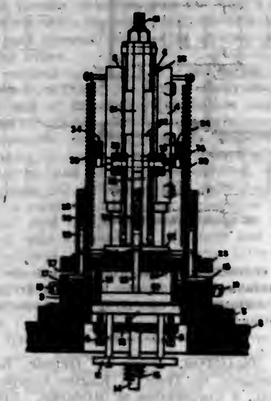
In a bag or purse frame, the combination of a pair of frame sections, of a flat edge strip provided with a central raised portion, connected with one of said frame sections, to receive and position the holding or locking catch, said edge strip being further provided with a lateral recess to limit the upward movement of the catch, a locking catch located in said central raised portion of the edge strip, comprising a plate, the rear and upper side being formed with a projection positioned in the lateral recess of said edge strip and adapted for engagement with the wall of the central raised portion of the edge strip to permit the oscillatory movement of said catch, said plate being further provided at its front end with a finger receiving element formed by turning the metal of said plate rearwardly upon itself, alined integral spring holding means formed on each end of said catch, a torsion spring one end of which is secured to one of the holding means on one end of the catch, and the spring being further positioned in the other holding means on the other end of the catch, the other end of the spring being secured in the channel of the frame section against rotation.

1,393,771. PHONOGRAPH-RECORD HOLDER. EDWARD C. GORDON, Chicago, Ill. Filed June 20, 1919. Serial No. 305,572. 5 Claims. (Cl. 211—16.)



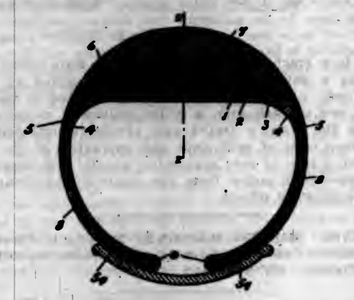
1. A record holder embodying therein a frame, a plurality of individual record supports mounted in side by side relation therein, each record support having a record receiving groove formed by a depression in one side face thereof, and the adjacent record support having a side face which directly abuts that side face of the first mentioned record support that contains the groove and bounds, at least in part, said record receiving groove.

1,393,772. MACHINE AND PROCESS FOR AFFIXING COVERING MATERIAL TO FORMS. OLIVER P. GRAMMWOOD, Billerica, Mass., assignor to Farrington Manufacturing Company, Boston, Mass., a Corporation of Maine. Filed May 3, 1920. Serial No. 378,554. 7 Claims. (Cl. 93—54.)



4. The process of covering an article with a sheet of material which consists in producing a plurality of impaling members upon said article, stretching the sheet of material upon said article and causing the same to engage said impaling members.

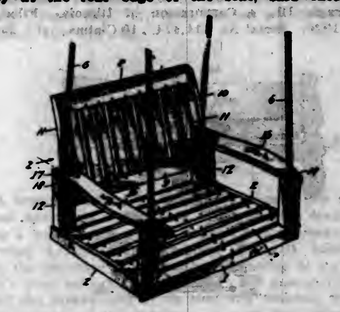
1,393,773. TIRE. ENOCH GRILL, Grand Rapids, Mich. Filed Oct. 9, 1920. Serial No. 415,851. 2 Claims. (Cl. 152—18.)



1. A tire casing comprising a continuous band of metal made up of laminations of sheet metal, a leather covering incasing the same, a fabric covering around the leather, a heavy fabric strip cemented to the outer side of the fabric covering and having its sides extended outwardly and downwardly to make sides to the casing, and a rubber tread vulcanized around the last mentioned fabric and continued over the sides thereof, said last mentioned fabric being also covered with rubber on its inner side, substantially as described.

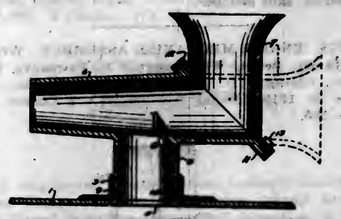
1,393,774. SWING. JOSEPH F. GUSHMAN, Toledo, Ohio. Filed Nov. 28, 1919. Serial No. 341,005. 9 Claims. (Cl. 155—65.)

1. In a swing, the combination of a seat supported by flexible members at the front and rear, a back having a fixed extension at each end telescoped on the rear flexible supporting members so as to be oscillatably held thereby at the rear edge of the seat, said extensions



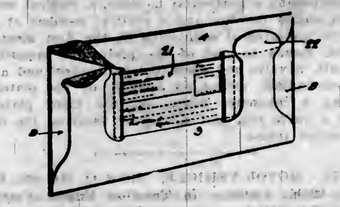
being terminated below the middle of the back, and having arm rests loosely supported on the upper ends thereof, and held thereagainst by the forward inclination of the rear flexible members.

1,393,775. VENTILATOR. GEORGE HANSON, Wilmington, N. C. Filed Apr. 7, 1920. Serial No. 371,923. 2 Claims. (Cl. 98—8.)



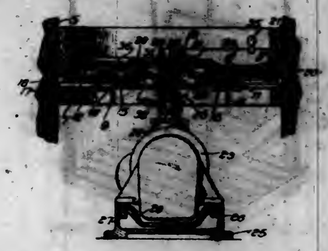
2. In a ventilator, a cowl, a stem communicating therewith, a collar operatively supporting said stem, a baffle plate at the junction of said cowl body and stem, a raised threaded annular shoulder formed upon one end of said cowl body at an oblique angle thereto, a mouth piece, and a threaded flange formed upon said mouth piece and disposed at an oblique angle thereto for adjustable engagement with said annular shoulder, the movement of said flange upon said shoulder causing an adjustment of said mouth piece with relation to said cowl.

1,393,776. SAFETY-FLAP POCKET REGISTRY-ENVELOP. LEWIS WILLIAM HARDING, Norfolk, Va., assignor of one-half to John A. Lesner. Filed Oct. 18, 1919. Serial No. 331,583. 10 Claims. (Cl. 229—72.)



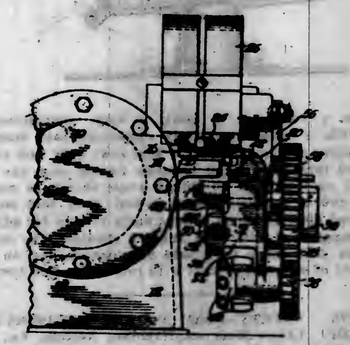
1. An envelop provided with inwardly extending end flaps, each flap folded upon itself to form an externally located pocket to receive a return card, and means connecting one flap with the other.

1,393,377. METHOD OF AND APPARATUS FOR BURNING FURNACE-FIREBOXES. Stanislaus Hanusek, Chicago, Ill., assignor to Hardinge Brothers, Inc., Chicago, Ill., a Corporation of Illinois. Filed Sept. 20, 1920. Serial No. 411,414. 10 Claims. (Cl. 25—26.)



1. The combination with a machine for burning fuel oil, comprising a rotary spindle for rotating an atomizing nozzle, of means for co-acting with said spindle in forming the bed of the fire box of the furnace in which said atomizing nozzle is to operate, comprising a member having screw threaded engagement with said spindle and provided with a plurality of arms for supporting a ring forming a part of said fire box bed, and a sweep, for conforming the upper surface of the fire box bed, rotatably mounted on said member.

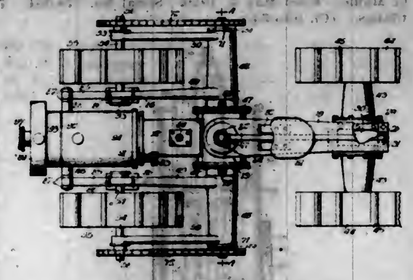
1,393,778. ENGINE-MECHANISM ASSEMBLY. William C. Heath, Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill., a Corporation of Illinois. Filed June 19, 1919. Serial No. 305,254. 2 Claims. (Cl. 123—195.)



1. In mechanism of the class described, the supporting plate comprising a horizontal member, a vertical member at right angles thereto, and a vertical member at right angles to an integral with each of the first mentioned members, means on one of the plates for mounting a cam shaft, a valve rod operating mechanism and a governor mechanism, means on another of the plates for mounting a magneto, means on the third plate for guiding a valve rod, and means for securing the device to an engine frame.

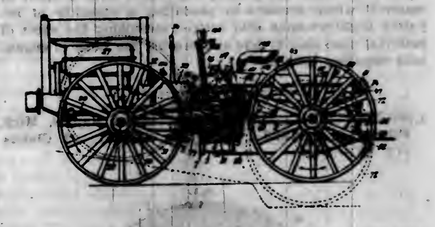
1,393,779. MOTOR-VEHICLE. John O. Heinen, Boyne City, Mich., assignor to Traction Engine Company, Boyne City, Mich., a Corporation of Michigan. Filed July 10, 1919. Serial No. 312,042. 15 Claims. (Cl. 180—40.)

1. In a vehicle, the combination of a frame comprising a leading section and a trailing section vertically pivoted to the rear end of the leading section, a pair of supporting wheels pivotally connected on a longitudinal axis to one of the sections, a pair of supporting wheels, each



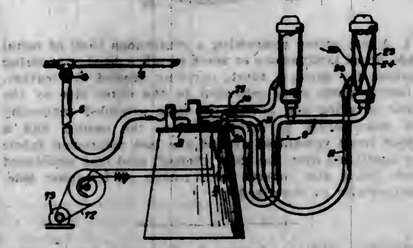
resiliently connected to the other section and independently oscillatable, and a motor having a driving connection for simultaneously operating the supporting wheels of both sections.

1,393,780. TRACTOR. John O. Heinen, Boyne City, Mich., assignor to Traction Engine Company, Boyne City, Mich., a Corporation of Michigan. Filed Dec. 6, 1919. Serial No. 343,019. 14 Claims. (Cl. 180—49.)



1. In a tractor, the combination of a main frame comprising a pair of upward arms finally united at their rear ends, a front supporting wheel mounted at the forward end of each arm, a motor resiliently mounted between the arms, a trailer arm pivoted intermediate of the rear ends of said arms and supported at the rear end by a pair of rear supporting wheels, and means for communicating power from the motor to the front and rear supporting wheels.

1,393,781. MILKING-MACHINE. Palmer B. Hewlett, Hollister, Calif. Filed June 2, 1919. Serial No. 301,519. 5 Claims. (Cl. 31—101.)



1. In a milking machine, a milk receptacle cover provided with a chambered casing comprising a pair of outer chambers open to the atmosphere, a pair of intermediate chambers, each connected with a teat cup and

a vacuum chamber connected with a source of vacuum, valves controlling communication between each intermediate chamber and the vacuum chamber and the respective outer chambers, and electro-magnetic means for so actuating said valves in timed relation that each intermediate chamber is alternately opened to the atmosphere and to said vacuum chamber, and the timing being such that the intermediate chambers are opened to the atmosphere and said vacuum chamber in alternation with respect to each other.

2. In a milking machine, the combination of a milk receptacle cover, a chambered casing comprising a vacuum chamber, a pair of intermediate chambers and a pair of atmospheric air chambers, a valve interposed between each intermediate chamber and its respective atmospheric chamber, a valve interposed between each intermediate chamber and said vacuum chamber, and electromagnetic means for actuating said valves so that communication is established and shut off between the vacuum chamber and said intermediate chambers in alternation and between said atmospheric chambers and said intermediate chambers in alternation, the actuation being such that when one intermediate chamber is opened to vacuum and closed from atmosphere, the other intermediate chamber is closed from vacuum and opened to atmosphere.

3. In a milking machine, the combination of a milk receptacle cover provided with a chambered casing including a pair of atmospheric air chambers, a pair of intermediate chambers and a vacuum chamber, a pair of valves for each intermediate chamber adapted to be alternately opened and closed to establish communication between each intermediate chamber and the atmosphere and said vacuum chamber in alternation, and electromagnetic means for operating said valves so that the intermediate chambers are alternately in communication with said vacuum chamber.

4. In a milking machine, the combination of a milk receptacle cover, a plurality of chambers arranged thereon comprising a pair of atmospheric air chambers, a pair of intermediate chambers and a vacuum chamber, a pair of valves for each intermediate chamber, one of the valves of each pair being movable relatively to the other, and electro-magnetic means for operating all of said valves to cause a valve of each pair to be closed when the other is opened, the pairs of valves being arranged to establish communication between the vacuum chamber and said intermediate chambers in alternation.

5. In a milking machine, the combination of a milk receptacle cover, a plurality of chambers mounted thereon, a source of vacuum connected with one of said chambers, two of said chambers being connected with teat cups and two chambers being open to atmosphere, four valves controlling communication between the various chambers, and electro-magnetic means for actuating said valves so that each teat cup chamber communicates alternately with said vacuum chamber and with the atmosphere, communication between the vacuum chamber and said teat cup chambers being established in alternation.

1,393,782. BALANCING DEVICE FOR EXPLOSION OR INTERNAL-COMBUSTION MOTORS. Oscar Waldemar Hult, Stockholm, Sweden. Filed Mar. 27, 1920. Serial No. 369,356. 4 Claims. (Cl. 74—5.)



1. The combination with an engine having a rotatable crank shaft, of an ignition apparatus including a rotatable part, said rotatable part including a balance weight which rotates in an opposite direction to and with the same angle of velocity as the engine shaft.

2,393,783. SEWING-MACHINE. Clinton H. Hunt, Georgetown, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 17, 1918. Serial No. 254,476. 4 Claims. (Cl. 112—36.)



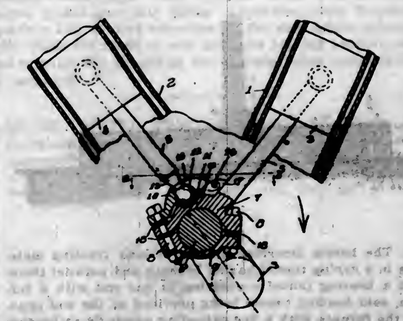
1. A sewing machine for sewing outsoles to the uppers of shoes, having, in combination, stitch forming devices including a hook needle, a work support and a presser foot, comprising a rigid body extending obliquely downward and in the direction of feed and terminating at its lower end in a work engaging foot, a rigid plow mounted on the body of the presser-foot at its base and directed in a direction reverse to the direction of feed for lifting and turning back the channel flap, and a rigid plate-like projection mounted on the body of the presser-foot adjacent its base and extending from the body of the presser-foot in the direction of feed for engaging the outer portion of the channel flap and holding the same out of the paths of the needle and awl.

1,393,784. DETACHABLE SHOE-HEEL. Louis Iannelli, Boston, Mass. Filed Aug. 31, 1920. Serial No. 407,168. 3 Claims. (Cl. 36—36.)



1. A shoe having, in combination, a conical shaped metal member attached at the heel portion thereof having a screw thread extending thereabout increasing in diameter from the lower end thereof upward and a detachable heel adapted to interlock with the screw thread of said metal member and spring into holding engagement with said shoe.

1,393,785. ENGINE. Joseph D. Ingram, Amarillo, Tex. Filed Feb. 7, 1920. Serial No. 357,007. 2 Claims. (Cl. 74—17.)



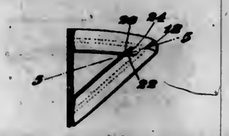
1. In an engine the combination with a crank engaging yoke and a piston rod integral therewith, of another piston rod pivotally connected to the yoke, the two rods being mounted to work in the same plane, and separate means engaged by a single bolt for holding the yoke upon a crank and for holding the pivoted piston rod to the yoke.

1,393,786. OVEN-BURNER. SHERMAN S. TOWNLEY, Buffalo, N. Y. Filed Nov. 17, 1919. Serial No. 338,474. 7 Claims. (Cl. 126—36.)



1. The combination with a range provided with an oven and a burner chamber arranged beneath the oven and opening therein, of a reversible and detachable burner member adapted to provide a burner elevated above the bottom of the oven when in one position and to close the oven against the admission of air through the burner chamber when in the reversed position.

1,393,787. SOLE AND METHOD OF MAKING. MERTON E. JOHNSON, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Oct. 18, 1919, Serial No. 331,580. Divided and this application filed Dec. 2, 1920. Serial No. 427,738. 9 Claims. (Cl. 12—146.)



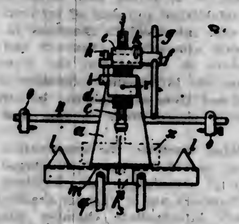
1. A sole having a V-shaped incision in its margin at the tip of the toe, and a lineal incision at the rear thereof but oblique thereto.

1,393,788. PROCESS IN DIRECT-ACTION DRIERS. ITHAMAR M. JUSTICE, Dayton, Ohio, assignor to The Manufacturers Equipment Company, Dayton, Ohio, a Corporation of Ohio. Filed May 3, 1919. Serial No. 294,499. 9 Claims. (Cl. 34—24.)



7. The herein described process of heat treating materials in a drying tunnel having beneath and parallel therewith a heating tunnel connecting at one end with a furnace, said heating tunnel being provided at the end opposite the furnace with a flue extending upwardly to heating channels parallel with said drying and heating tunnels and leading to a stack intermediate the ends of the drying tunnel and there being also at the furnace end of the drying tunnel an outlet for the air therein opening into a channel leading to the stack; the process consisting of passing a heating medium through the heating tunnel thence upwardly through the end flue to and along the heating channels to the stack; in introducing air at atmospheric temperature in regulated quantities into the end of the drying tunnel opposite the furnace end of the heating tunnel, in causing the same to be gradually increased in temperature by radiation of heat as it passes therethrough and in conducting it upwardly near the furnace end thereof into and through the air channel extending over and parallel with the drying tunnel to the stack, in introducing into the drying tunnel the material to be treated and in advancing it therealong in the direction of the air current.

1,393,789. MANDREL-PRESS. LEONHARD KELLENBERGER, St. Gallen, Switzerland. Filed Apr. 17, 1920. Serial No. 374,673. 4 Claims. (Cl. 29—85.)



1. In an improved mandrel-press, the combination with a stand having a base plate, of a screw-threaded sleeve adjustably screwed into the top portion of the stand, a rack slidably mounted within the sleeve, means to operate the said rack when small down-pressure is required, and means to block the rack from movement and cause the said sleeve to be independently moved for use with heavy down-pressure.

1,393,790. TROLLING-SPINNER. HARRY J. KENNEY, Seattle, Wash. Filed Mar. 30, 1920. Serial No. 370,002. 6 Claims. (Cl. 43—45.)



5. A trolling spinner comprising a rotatable member having a central opening and a sinker weight supported centrally of the rotatable member within the opening and spaced from the walls thereof to cause the spinner to travel beneath the surface of the water.

1,393,791. SPLICED JOINT FOR BALE-BANDS. WALLACE D. KIMBALL, New York, N. Y., and CHARLES G. MORTIMER, East Orange, N. J., assignors to National Binding Machine Company, New York, N. Y., a Corporation of New York. Filed Mar. 1, 1917. Serial No. 151,634. Renewed May 6, 1920. Serial No. 379,397. 7 Claims. (Cl. 24—23.)



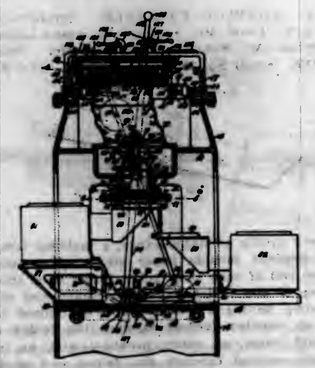
1. A spliced joint comprising two strap ends to be connected, a tube or sleeve having different portions surrounding the two strap ends, each said portion and its inclosed strap end having a crimp or corrugation therein, said tube or sleeve having a portion of its wall cut out on one side to permit one end of the strap to project therethrough.

1,393,792. METAL FACING FOR INSIDE OF WINDOW-OPENINGS. GEORGE A. KNAPP, Chicago, Ill., assignor to Knapp Brothers Manufacturing Company, a Corporation of Illinois. Filed Feb. 18, 1921. Serial No. 446,018. 5 Claims. (Cl. 189—75.)



3. A structure having a sheet metal member and a bracket to which it is to be attached and screws permanently secured to the surface of the sheet metal member adjacent the bracket to be received by holes in the bracket and nuts on the screws to hold said member and bracket together without exposing the screws.

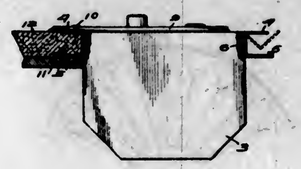
1,393,793. CAMERA. CONSTANT J. KRYZANOWSKY, Mount Washington, Md., assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed May 18, 1917. Serial No. 169,423. 24 Claims. (Cl. 88—24.)



1. In a step and repeat camera, an upright frame, a lens carried by said frame with its axis in a vertical plane, a carriage mounted in said frame to move in a horizontal plane, a photographic plate holder carried by said carriage, a master plate moving with said plate holder, and means for locating said master plate in a plurality of predetermined positions.

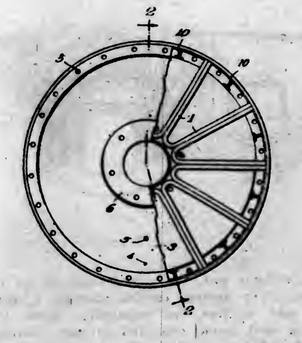
1,393,794. SWITCH-BOX. CARL H. KUHLMAN, Toledo, Ohio. Filed Jan. 29, 1920. Serial No. 354,815. 2 Claims. (Cl. 247—20.)

2. In a sheet metal switch box for plastered walls, the sides of the box having flanges extending at right angles to the sides, one set of flanges located at the front edges of the box and the other set of flanges located away from the edges of the box a distance equal to the thickness of the plaster and connected to the edges of the sides of the box by narrow strips formed integral with the sides of the box and the last named flanges and connected to the sides of the box in the same plane as the



first named flanges, the said strips being bent sharply downward and against the sides of the box and severable by return movements of the strips and the second named flanges.

1,393,795. METAL WHEEL. MAURICE LACHMAN, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Nov. 2, 1917. Serial No. 199,828. 14 Claims. (Cl. 301—63.)



1. A metal wheel comprising a substantially rigid spoke member constructed from flanged metal bars forming radial spokes and side plates comprising disks fastened together and against the sides of the said spoke member with their flat faces or web portions bearing against the flat faces of the flanges at the opposite edges respectively of said bars.

1,393,796. METAL VEHICLE-WHEEL. LAURENCE S. LACHMAN, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed July 31, 1918. Serial No. 247,499. 14 Claims. (Cl. 301—66.)



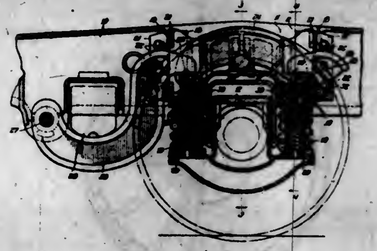
7. In a metal wheel, a metal rim and tubular spokes united therewith by a welded joint comprising the metal of projections integral with and rising from countersinks in the inner surface of the rim and the ends of the spokes butt-welded to said projections.

1,393,797. METAL WHEEL. MAURICE LOCHMAN, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed May 31, 1919. Serial No. 301,622. 5 Claims. (Cl. 301—63.)



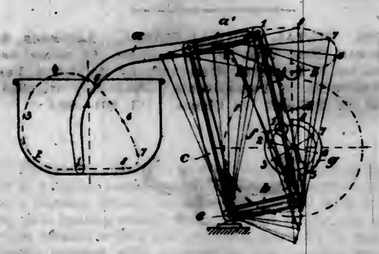
1. A metal wheel having a metal rim provided with an internally projecting flange or rib and separate spokes butt-welded by the edge of their extremities to the edge of separated projections of said flange.

1,393,798. SIX-WHEEL EQUALIZING-TRUCK. JOHN A. LAMONT, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed July 18, 1921. Serial No. 485,433. 8 Claims. (Cl. 105—195.)



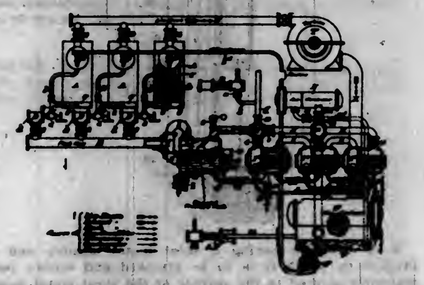
1. In a railway car, the combination of an intermediate journal box, springs carried thereby, a spring cap bridging said springs, an equalising beam pivotally mounted on said spring cap, and springs interposed between said spring cap and equalising beam for maintaining the equalising beam in its normal horizontal position.

1,393,799. MIXING, KNEADING, AND THE LIKE MACHINE. CARL LAUNER, Berlin, Germany. Filed May 14, 1919. Serial No. 297,173. 2 Claims. (Cl. 74—14.)



1. In a device of the kind described in combination, a linked quadrilateral, one of the pivots of said quadrilateral being fixed, an arm fixed to and forming an elongation of one of the bars opposite said fixed pivot extending beyond the point adjoining said fixed pivot, a crank having its free end pivoted to the other opposite bar and means for turning said crank.

1,393,800. PROCESS FOR CONSERVING HEAT IN STEAM-POWER PLANTS. SAMUEL MORRIS LILLIE, Philadelphia, Pa. Filed Apr. 22, 1918. Serial No. 230,255. 6 Claims. (Cl. 122—1.)



1. The process of utilizing heat in hot water in steam power plants consisting in leading it into a space in which is maintained a lower pressure than the pressure corresponding to the temperature of the water, in employing the resulting flash vapors in an evaporating plant to evaporate water for the production of vapor and distilled water, and in using the vapors for heating the feed water for the boilers.

1,393,801. ENVELOP-FASTENER. CHRISTOPHER H. LOVELL, St. Louis, Mo., assignor, by mesne assignments, to Thomas M. Webster, St. Louis, Mo. Filed Apr. 24, 1919. Serial No. 292,393. 1 Claim. (Cl. 24—17.)

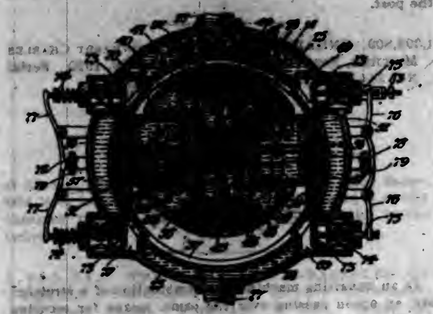


As a new article of manufacture, a fastener comprising two independent flexible paper strips of gummed material, one end of each strip being folded upon itself, the inner face of the folded end being ungummed so as to form a strip having a gummed and ungummed interior surface, an opening formed through the folded end of one of said strips, an eyelet provided with an integral flat tongue secured through the folded end of the remaining strip, the folded end of the strip provided with the opening underlying the folded end of the strip carried by the eyelet provided with the tongue, said tongue being inserted through the opening and folded back against the folded end of the strip carrying the tongue, the free end of the tongue extending to the eyelet in said folded end.

1,393,802. ROTARY ENGINE. BENJAMIN M. LUPTON, Jr., Jersey City, N. J. Filed Dec. 22, 1916, Serial No. 138,260. Renewed Mar. 31, 1921. Serial No. 457,423. 30 Claims. (Cl. 122—8.)

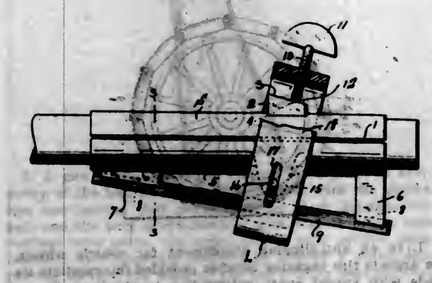
8. In a rotary engine, a casing having a cylindrical bore and provision for the admission and discharge of a fluid, a piston body mounted for relative rotation within and eccentrically of said bore, a sectional piston member carried by and movable transversely of said body, an element

mounted for relative rotation within and concentrically of said bore, having parallel guides with which the respective



ends of the said piston member are in sliding contact, and means for adjusting the sections of said piston member in relation to the guides.

1,393,803. NUT. ALEXANDER MCKIM, deceased, by Katherine McKim, administratrix, Wilkinsburg, Pa. Filed Mar. 14, 1921. Serial No. 452,382. 8 Claims. (Cl. 85—36.)

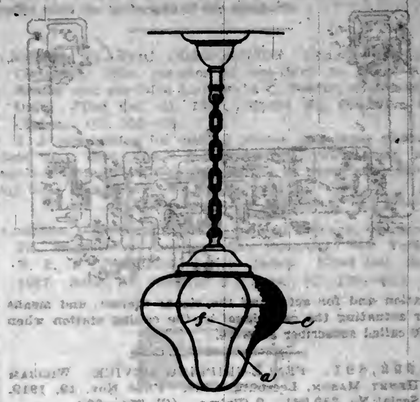


1. A device of the class described comprising a loop member, a split sleeve disposed through the loop member, longitudinally spaced lugs carried by the sleeve, a rod disposed through the loop member and contacting with the lugs, and a member threaded through the loop member and engaging the sleeve at a point remote from the lugs.

1,393,804. TRANSPARENT GLASS SCREEN FOR TRANSMITTING SUBSTANTIALLY WHITE LIGHT FROM INCANDESCENT ELECTRIC LAMPS. DONALD N. MACDONALD, Boston, Mass. Filed Jan. 15, 1919. Serial No. 270,873. 5 Claims. (Cl. 240—1.)

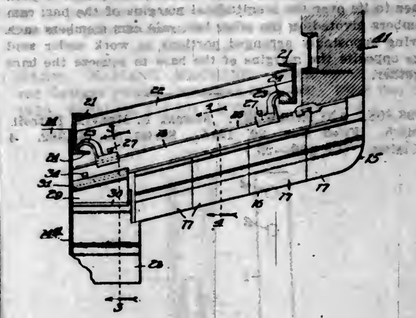
4. An illuminating lamp comprising the combination with an incandescent electric lamp of a screen formed and arranged substantially to surround said lamp and composed of transparent glass having an irregular external light-diffusing surface, and having a bluish color characteristic adapted to absorb substantially the excess of red and yellow light rays emitted from said incan-

descent lamp over the contents of such rays in midday sunlight, said color characteristic being that of finely



ground cobalt blue glass thinly spread over the screen and fused thereto.

1,393,805. FIRE-ARCH. THOMAS A. MARSH, Chicago, Ill., assignor to Green Engineering Company, East Chicago, Ind., a Corporation of Illinois. Filed Oct. 19, 1918. Serial No. 258,845. 5 Claims. (Cl. 110—96.)

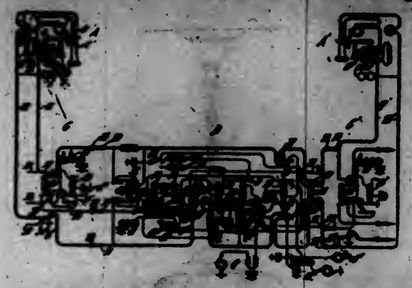


1. A fire-arch, comprising a plurality of laterally spaced beams extending from front to rear of said arch, a row of blocks for each of the spaces between said beams, a plurality of the blocks in each row engaged with the beams at opposite sides thereof and suspended from said beams with the lower faces of the blocks in the same plane, the front block in each row extending below the remaining blocks in the row to provide a step at the front end of the row, said front blocks having their upper ends terminating short of the beams thereabove, and means for suspending said front blocks from said beams.

1,393,806. AUTOMATIC TELEPHONE SYSTEM. TALBOT G. MARVIN, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 12, 1917. Serial No. 196,384. 14 Claims. (Cl. 179—16.)

1. In a telephone system, subscribers' lines, talking equipment therefor, a call signal at the station on each line

for receiving calls, automatic switching mechanism controlled from a calling station for connecting with a called



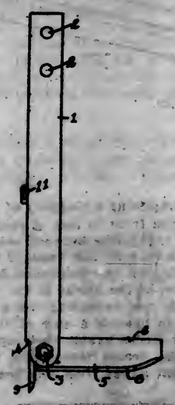
station and for actuating the signal thereat, and means for actuating the call signal at the calling station when the called subscriber answers.

1,393,807. FENCE-GRIPPING DEVICE. WILLIAM HENRY MASON, Leesburg, Ohio. Filed Nov. 19, 1919. Serial No. 339,061. 2 Claims. (Cl. 254—98.)



1. A fence stretching device including, in combination, a pair of gripper bars, one of which is provided with transverse keepers having lugs turned inward toward each other to lie over the longitudinal margins of the bar, cam members pivoted on the other bar, said cam members each having opposingly arranged portions to work under said lugs opposite the margins of the bars to squeeze the bars together.

1,393,808. ANCHOR-POST. ALBERT L. MELVIN, Detroit, Mich. Filed Nov. 26, 1915. Serial No. 62,282. 4 Claims. (Cl. 189—29.)



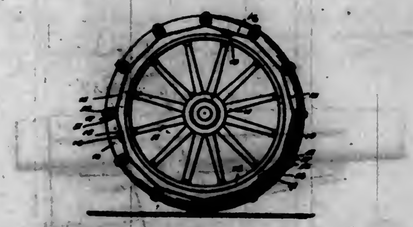
1. An anchor post comprising a body member formed of angle iron or the like, a driving point of similar character pivotally attached thereto and having a curved and sharpened driving end, a slidable locking bar engaging the point in a manner to hold the same in alinement with the body during the driving operation, the body member and point having abutting portions when held in alinement, the locking bar being movable relative to the point to allow the same to turn on its pivot to an angle with the body by driving, all, the body and the bar being adapted to be inserted between the end of the point and contiguous end of the body member when the point is turned to an angle preventing return of the point to alinement with the post.

1,393,809. UNHAIRING-MACHINE. REINHARDT CHARLES MASCHKE, New York, N. Y. Filed May 26, 1920. Serial No. 384,264. 1 Claim. (Cl. 28—12.)



In an unhairing machine, the combination of a stretcher bar, an apron passing over the same, means for securing a pelt along its one edge to said apron, slotted bearings located in opposite relation to said stretcher bar, pressure rollers journaled in said slotted bearings and between which said pelt is carried by said apron and whereby said pelt is held taut upon said apron during the unhairing operation and springs in said slots whereby one of said rollers is pressed toward the other.

1,393,810. ANTISLIPPING ATTACHMENT FOR VEHICLE-WHEELS. CHARLES MOSS, New York, N. Y., assignor to Mossgrip Co., Inc., New York, N. Y. Filed June 30, 1919. Serial No. 307,673. 2 Claims. (Cl. 152—14.)



1. In an anti-slipping attachment for vehicle wheels, an arcuate tire engaging member provided intermediate its ends with spaced apart outstanding longitudinal flanges and having relatively flat opposite end portions with pairs of spaced slots therein, and the portion of the member between the slots being pressed outwardly to form a pocket therebeneath and between the slots, a tread member secured between said flanges at the outer side of said tire engaging member, and attaching links connected to opposite ends of the tire engaging member, each link having an intermediate portion adapted to lie in one of said pockets and having end portions projecting through said slots and curved to project outwardly from the slots, said links being adapted to freely slide in said pockets for permitting relative movement between the tire engaging member and the links, and the pockets protecting the intermediate portions of the links from contact with the roadway.

1,393,811. HOSE-CLAMP. WALTER MOSSMEIJER and GORDON J. SWEEDEN, Mount Vernon, Ohio. Filed Sept. 29, 1920. Serial No. 413,491. 1 Claim. (Cl. 24—19.)

A hose clamp consisting of a clamping band having flanged overlapping ends, a clamping bolt extending loosely through the flanges having an eye at one end and

threaded at its opposite end, an adjusting nut on the threaded end of the bolt to engage one of the flanges, a cam locking lever, and a pivot pin extending through the eye and forming a journal for said lever at the other end



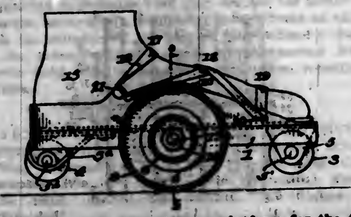
of the bolt permitting the lever to engage the other flange, said lever having a curved handle arranged to lie in snugly engaging relation against a portion of the band in the locked position.

1,393,812. STOCK FOR SINGLE-BARRELED OR DOUBLE-BARRELED GUNS. EUGÈNE MOUSSEAUX, Le Mans, France. Filed Apr. 5, 1920. Serial No. 371,451. 2 Claims. (Cl. 42—71.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A gun stock having the vertical axial plane of symmetry of the butt of the stock coincident with the aiming line and having that portion of the stock between the grip and the butt unsymmetrical with respect to the said vertical axial plane, the upper face of said portion being laterally and upwardly inclined to provide a cheek supporting surface, the sides of the stock below said inclined upper surface being reduced in thickness to provide shoulders above the reduced portion.

1,393,813. ROLLER-SKATE. JOHN MUCK, Milwaukee, Wis. Filed Aug. 19, 1918. Serial No. 250,480. 2 Claims. (Cl. 46—51.)

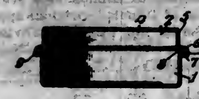


2. A roller skate comprising a platform for the foot, a plurality of wheels supporting the platform and journaled thereon, and a roller mounted in a spring bearing at the underside of the platform and at the rear of the supporting rollers, whereby said roller may act as a brake for the skate by forcing the spring mounting and engaging the roller with the underside of the platform.

1,393,814. PLASTIC COMPOSITION. CHARLES NOLL, Cleveland, Ohio, assignor of one-third to Irvin A. Reader and one-third to Edward C. Reader, Cleveland, Ohio. Filed Oct. 31, 1919. Serial No. 334,872. 4 Claims. (Cl. 106—94.)

1. A composition for making plaster containing slaked lime, clay, sand, and a porous material, which may be again rendered plastic by the addition of liquid after having once been set.

1,393,815. CONTAINER. CHARLES H. NOWACK, Chicago, Ill., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 21, 1917. Serial No. 208,312. 2 Claims. (Cl. 220—42.)



1. The combination of a container body having its top edge formed in an outwardly turned curl, a cover therefor formed with a shoulder adapted to be supported by the top of said curl when the container is closed, the edge of the cover being formed in a vertical flange which depends from the outer part of said shoulder around the outer side of said curl and extends below the bottom of said curl, and a vertically thin gasket arranged between the curl and the said depending flange and against which the flange engages tightly, said cover being disengageable from the body by pressing inwardly against said depending cover flange at a point below said curl of the body.

1,393,816. NAILING-MACHINE. WILLIAM N. OBRIN and GOMMER POWELL, Michigan City, Ind. Filed Dec. 2, 1920. Serial No. 427,821. 5 Claims. (Cl. 1—5.)

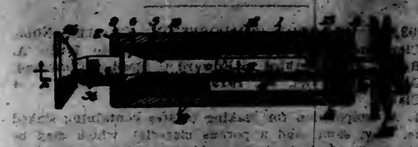


1. In a nailing machine, in combination, a nail-positioning nipple, a bushing slidable within the nipple and so constructed as to straighten the nail.

1,393,817. GRINDER-SPINDLE. CARL G. OLSON, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a Corporation of Illinois. Filed May 8, 1920. Serial No. 379,737. 9 Claims. (Cl. 64—23.)

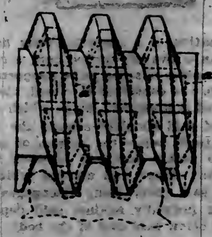
2. In combination, a spindle having a conical portion, a housing having a conical bearing for the conical por-

tion of the spindle, a ring adjustably mounted within the bearing and forming a bearing for the spindle, the ring being adapted to exert endwise thrust on the spindle, and



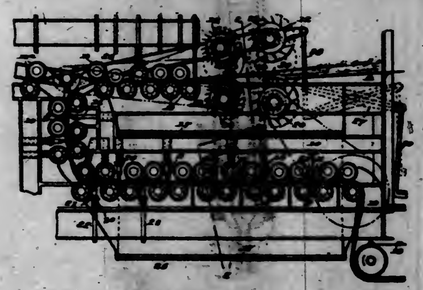
a spring encircling the spindle and having a stationary abutment at one end and at the other end exerting pressure axially upon said ring to hold the conical portion of the spindle seated in its conical bearing.

1,393,818. RECTIFIED-TOOTH HOB. Carl G. Olson, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a Corporation of Illinois. Original application filed Jan. 5, 1920, Serial No. 349,687. Divided and this application filed Nov. 1, 1920. Serial No. 420,997. 3 Claims. (Cl. 29—108.)



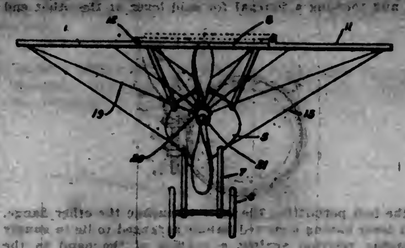
1. A hob having teeth, the cutting faces whereof coincide with one helicoid, viz: the one corresponding to the lead of the hob as a whole, and the individual teeth form truncated helicoids of slower pitch.

1,393,819. APPARATUS FOR DECORTICATING FIBROUS PLANTS. Frank O'Neill, Jr., Philadelphia, Pa. Filed Dec. 8, 1916, Serial No. 135,763. Renewed Mar. 7, 1921. Serial No. 450,459. 7 Claims. (Cl. 13—21.)



2. In a machine of the class described, the combination of rolls arranged in two series with the rolls of one series opposite the spaces between the rolls of the other series, said rolls acting to flatten the plants, and plant bending instrumentalities to which the plants are delivered endwise from said flattening rolls and which comprise rolls and blades situated opposite the spaces between adjacent rolls, and the protuberant bending surfaces of successive blades being faced in opposite directions, said rolls being progressively operated driven at increasing speeds whereby the plants are subjected to a twisting or pulling action.

1,393,820. AIRPLANE. Bradd M. Dayton, Hinsdale, Ill. Filed Nov. 3, 1920. Serial No. 421,220. 11 Claims. (Cl. 244—23.)



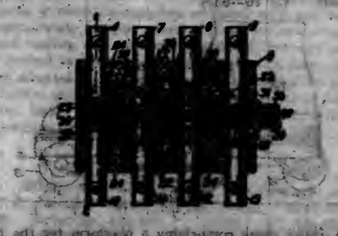
An airplane comprising a body portion, a stationary plane supported above the body portion, hinge sections extending upwardly from the stationary plane, lateral planes having hinge sections, means for connecting the hinge sections to provide hinge members, the hinge sections of one lateral plane being longer than the hinge sections of the opposed plane to permit one plane to be folded over the other plane, and means for connecting the lateral planes to the body portion.

1,393,821. APPARATUS FOR CONCENTRATING ORES BY FLOTATION. Yenkichi Ozuka, Tokyo, Japan. Filed Oct. 17, 1918. Serial No. 258,648. 1 Claim. (Cl. 33—85.)



In a machine of the class described, a casing, partitions subdividing said casing into longitudinally alined compartments, a shaft extending through all said compartments, mixer-beaters mounted upon said shaft in each compartment, the beaters of the first compartments being adapted to mix ore pulp and detention agent without substantial aeration, the beater of the last compartments being provided with means for delivering air into the pulp, all the compartments being connected for the passage of pulp therethrough successively, the first compartments having means for the delivery thereto of detention agents, and flotation means receiving from the last compartments.

1,393,822. ELECTRIC SWITCH. John B. Parkin, Brentland, D. C. Filed May 14, 1917. Serial No. 168,850. 8 Claims. (Cl. 200—43.)

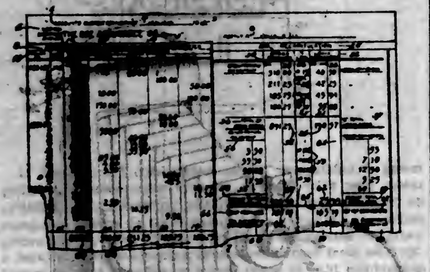


1. In a multiple switch, the combination of two sets of conductor-terminals of the same number each, and a key having in the number of conductors with definite

each combined key-terminal, the conductors of each set being [illegible]

8. An electric switch comprising an insulating body provided with an internal keyway of uniform section and open at one end, resiliently mounted contacts at opposite sides of the key-way and substantially flush with the walls thereof, a key of insulating material adapted to fit said key-way and provided with connectors embedded in the key and arranged to connect said contacts in predetermined pairs, and stop means for accurately locating said key in the key-way in position to make the desired connections.

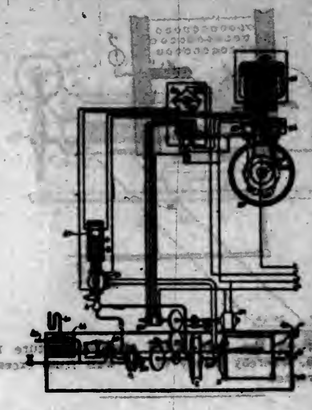
1,393,823. BLANK FOR INSURANCE ACCOUNTING. Theodore C. Parsons, Oak Park, Ill. Filed Aug. 28, 1920. Serial No. 406,399. 5 Claims. (Cl. 283—66.)



1. A sheet having a field designated to receive data concerning insurance written, containing a set of columns each designated by the indication of a rate of per cent., the set as a whole being designated to indicate that the several columns are to receive premiums, a space adjacent each column designated to indicate that it is to receive the total of the entries in that column, a second field containing a column designated to indicate that it is to receive said totals, each line of said column being designated by a rate of per cent. and another column designated to indicate that it is to receive commissions and having its lines designated by the same rates per cent., a space adjacent and in alinement with each of said columns each designated to indicate that it is to receive the total of its column, a third field containing columns and spaces similar to the first field and a fourth field containing columns and spaces similar to the second field, the columns of the fourth field being adjacent to but out of alinement with the total spaces of the second field, being separated by a greater distance than the columns of the second field whereby they are out of alinement with the columns of the second field, spaces adjacent to but out of alinement with the columns of the fourth field and suitably designated to indicate that they are for the totals of said columns respectively, said total spaces being in alinement with the columns of the second field, whereby the totals of the corresponding columns of the second field and fourth field will be separated by spaces containing no entries.

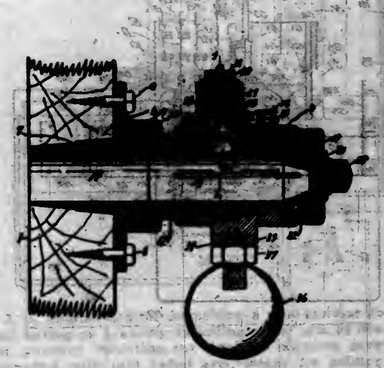
1,393,824. APPARATUS FOR PROPORTIONING STREAMS OF FLUID. John S. Peoples, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 24, 1918. Serial No. 847,215. 17 Claims. (Cl. 235—96.)

1. Apparatus for supplying a plurality of streams of fluid having a constant volumetric ratio, comprising, in combination, a plurality of wet displacement meters,



said meters and affording a medium of adjustment of such ratio.

1,393,825. VALVE FOR ROTATING DRUMS. Fremont Portharty, San Francisco, Calif. Filed July 21, 1920. Serial No. 397,992. 4 Claims. (Cl. 137—111.)

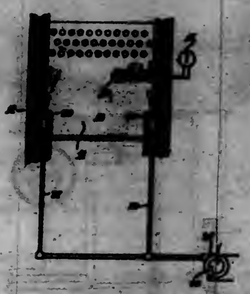


1. A relief device for a rotating drum mounted on said drum eccentrically to the axis thereof and including a relief valve which is subject to drum pressure only when said device is in its highest position.

1,393,826. MEANS OF COMBUSTION CONTROL. Fremont D. Porter, Linden, N. J., assignor to Combustion Control Company, Inc., New York, N. Y. Filed Apr. 16, 1919. Serial No. 290,629. 4 Claims. (Cl. 236—35.)

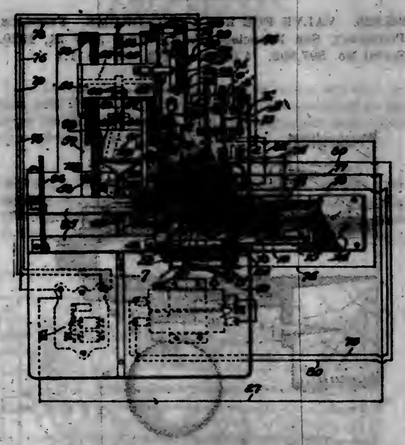
1. The combination with a combustion chamber of means for supplying cooling fluid to the combustion cham-

ter, and adjacent the inside walls thereof, and means controlled by the temperature of the combustion chamber



for turning on the fluid when the temperature rises unduly high, whereby injury to the wall from excessive heat is prevented.

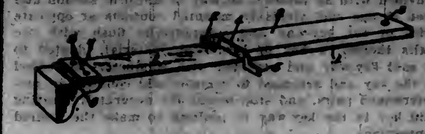
1,393,627. RECORDING SYSTEM AND SELECTOR MECHANISM THEREFOR. PAUL C. RAYMOND, U. S. National Army. Filed July 15, 1918. Serial No. 245,077. 19 Claims. (Cl. 101—51.)



1. In a record sheet controlled selector mechanism, the combination of a set of feelers individually adjustable into and out of operative position and individually movable in operative position under control of the record sheets, means for bringing the feelers in operative position into engagement with the record sheets, and a common actuator selectively controlled by the combined movement of all the feelers, whether one or more, in operative position.

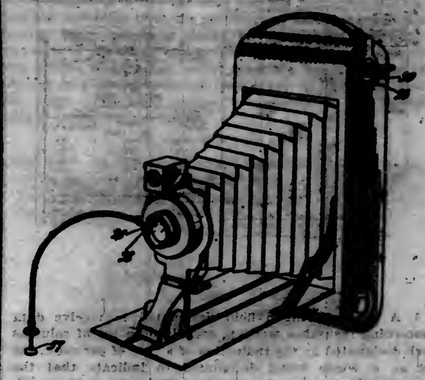
1,393,826. WEIGHING DEVICE. FRITZ REICHMANN, New York, N. Y. Filed May 12, 1916. Serial No. 98,971. 19 Claims. (Cl. 265—69.)

1. In a weighing device, the combination of means to offer resistance to the movement produced by weights applied thereto comprising a force-resisting member and means to vary the point of application of said weights on said force-resisting member longitudinally thereof so



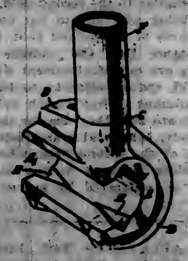
that said force-resisting member will give identical resistance to like weights under varying degrees of temperature.

1,393,829. CAMERA. ANDREW H. ROHLFS, Boise, Idaho. Filed Dec. 16, 1918. Serial No. 267,045. 9 Claims. (Cl. 95—31.)



1. In a camera, a locking member of substantially U-shape having opposed forwardly extending projections, said member having a notched portion on its inner edge and having a projection on its outer edge, substantially as shown.

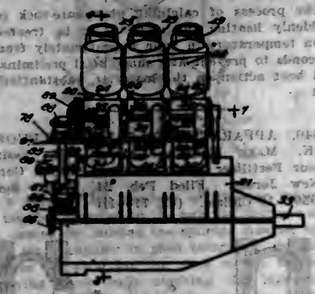
1,393,830. PIPE-BENDING TOOL. MORTIMER C. ROSENFIELD, Cleveland, Ohio. Filed Dec. 16, 1918. Serial No. 267,263. 1 Claim. (Cl. 81—15.)



As a new article of manufacture, a pipe bending tool comprising a body portion adapted to partially envelop a pipe and provided with gripping ribs upon its exterior adjacent each end and also provided with a shank and a longitudinal reinforcement, said ribs merging into said shank and reinforcement, the interior of said body being indented at the ends at oppositely disposed points,

said indentations being angular and offset at the outer ends, and gradually tapering toward the central portion of said interior, and a handle adapted to fit upon said shank.

1,393,861. INTERNAL-COMBUSTION ENGINE. ALLEN M. ROSEMAN, Wilmette, Ill. Filed Nov. 25, 1918. Serial No. 268,984. 27 Claims. (Cl. 60—15.)



1. An internal combustion engine comprising a power cylinder, a compressor cylinder co-axial with said power cylinder, a double-acting piston in said power cylinder, an elongated piston in said compressor cylinder, a common piston rod for both of said pistons, a combustion chamber, a manifold for conducting explosive charges from said cylinders to said chamber, a sleeve valve in said combustion chamber for controlling communication between said manifold and said combustion chamber and between said combustion chamber and one end of said power cylinder, and for controlling the exhaust from said power cylinder, and a scavenging piston in said sleeve valve.

1,393,883. COATING AND IMPREGNATING AGENT AND THE PROCESS OF MAKING IT. ANDREW J. ROWLAND, Cincinnati, Ohio, assignor to The Federal Products Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 6, 1920. Serial No. 415,124. 15 Claims. (Cl. 134—17.)

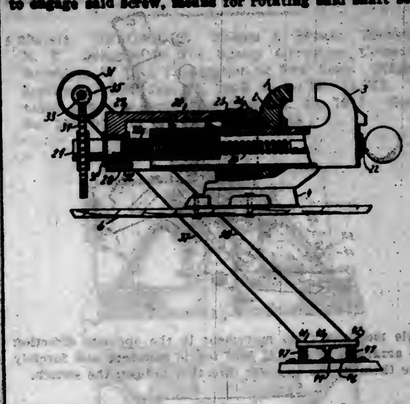
7. The herein described process which consists in first heating metallic oleate to a high degree of temperature, then maintaining said temperature while dissolving therein a quantity of India rubber, then heating said compound to a higher degree of temperature, then blowing steam therethrough at said higher degree of temperature, then reducing the temperature, and then dissolving said compound by the addition of a solvent, substantially as herein described.

1,393,883. COATING AND IMPREGNATING AGENT AND THE PROCESS OF MAKING IT. ANDREW J. ROWLAND, Cincinnati, Ohio, assignor to The Federal Products Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 6, 1920. Serial No. 415,125. 14 Claims. (Cl. 134—11.)

1. The process of making a coating and impregnating agent which comprises in heating metallic oleate, blowing air therethrough until the product, on cooling, becomes pliable and elastic, then increasing the temperature thereof and blowing steam therethrough until the produce is deodorized.

1,393,884. VISE-OPERATOR. LOUIS SALTER, Vallejo, Calif. Filed Dec. 12, 1920. Serial No. 430,579. 2 Claims. (Cl. 81—41.)

1. A vise, comprising a stationary jaw, a traveling jaw slidably mounted thereon, a screw rigidly secured in said traveling jaw, a shaft mounted in said stationary jaw adapted with said screw having a threaded sleeve adapted to engage said screw, means for rotating said shaft so as



to slidably move said traveling jaw in said stationary jaw and a spring balanced foot lever adapted to control said means.

1,393,885. LOCK MECHANISM. JOSEPH SCHECHTER, Brooklyn, N. Y. Filed Nov. 30, 1920. Serial No. 427,870. 12 Claims. (Cl. 70—29.)



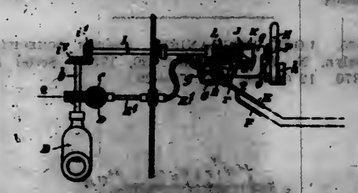
1. A lock-mechanism comprising a semi-annular rotary bolt having an inwardly extending radial arm at one end for pivotally mounting the same, a tail-piece pivotally connected with said radial arm, means for guiding the movements of said tail-piece, means for producing a combined reciprocatory and oscillatory movement of said tail-piece to actuate the rotary movements of said bolt, said bolt having detent notches at its outer circumference adjacent to each end, a pivoted detent-tumbler having a transverse detent-bar receivable in one or the other of said notches, and means for releasing said detent-tumbler prior to the actuation of said tail-piece.

1,393,886. ELECTRIC SWITCH. DANIEL M. SCHIPPERS, Boston, Mass., assignor to Sears B. Condit, Jr., Boston, Mass. Filed Mar. 9, 1918. Serial No. 221,847. 12 Claims. (Cl. 200—108.)

12. In an electric switch, stationary and movable switch members, operating mechanism comprising toggle-members, means to restrain said toggle-members from

movement in one manually operated direction whereby to close the switch circuit, and a latch arranged normally to engage and hold said toggle members from movement in the opposite direction when released by said manually operated means, and means also arranged to release said toggle members and forcibly move them in the opposite direction to open the switch.

1,393,837. TELEMOTOR. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed July 21, 1920. Serial No. 397,947. 9 Claims. (Cl. 192—93.)



1. In a telemotor, the combination with a device to be actuated, of manually operated means for actuating said device, a motor operatively included in a fluid-pressure system controlling as a distance for actuating said device independently of the manually operated means, and a valve interposed in the system to be actuated by the manually operated means to short-circuit the motor while the device is actuated by said manually operated means.

1,393,838. FUEL CUT-OUT AND COMPRESSION-RELEASE FOR GAS-ENGINES. HYRAM LEE SEWARD and RUSSELL E. HALE, Kansas City, Mo. Filed Apr. 18, 1919. Serial No. 291,049. 3 Claims. (Cl. 123—96.)



1. In an internal combustion engine, the combination with the combustion chamber provided with an exhaust passage having an exhaust valve and also with an inlet valve chamber having a fuel intake connection, of a self-contained attachment adapted to be interposed between said intake connection and valve chamber and including an auxiliary cut-off valve adapted to shut off the intake of fuel to said combustion chamber, means providing a secondary outlet passage from the combustion chamber to said exhaust passage at the exterior of the exhaust valve, [illegible]

[illegible] heads [illegible] cut-off valve.

1,393,839. [illegible] PROCESS. MARK [illegible], Chicago, Ill., assignor to Armour Fertilizer Works, Chicago, Ill., a Corporation of New Jersey. Filed Feb. 24, 1920. Serial No. 360,982. 10 Claims. (Cl. 71—7.)

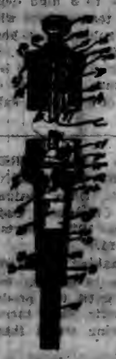
1. The process of calcining phosphate-rock consisting in suddenly heating [illegible] to be treated to the reaction temperature [illegible] approximately from one to five seconds to produce only substantial preliminary detrimental heat action on the material, substantially as described.

1,393,840. APPARA[illegible] PHOSPHATE ROCK. MARK [illegible], Chicago, Ill., assignor to Armour Fertilizer [illegible], Chicago, Ill., a Corporation of New Jersey. Filed Feb. 24, 1920. Serial No. 360,980. 10 Claims. (Cl. 71—1.)



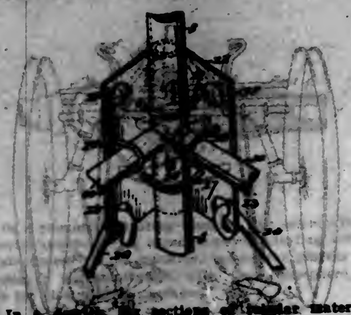
1. In a calcining structure of the character described, the combination of a furnace, and means to introduce a slurry stream of the material to be treated under pressure directly into the reaction heat zone of such furnace sufficiently suddenly to prevent any substantial detrimental preliminary heat action on the material, substantially as described.

1,393,841. FOUNTAIN MARKING-BRUSH. DON WILLIAM SIMMONS, Los Angeles, Calif. Filed May 26, 1920. Serial No. 384,575. 6 Claims. (Cl. 15—40.)



1. In a fountain marking brush the combination of a tubular casing-member, a piston-member slidably mounted within said casing, a piston rod reciprocatingly carried by said casing, and means detachably connecting said piston and piston rod whereby the latter may be reciprocated independently of the former.

1,393,842. DERRICK. [illegible], Dallas, Texas. Filed Aug. 6, 1920. Serial No. 401,436. 2 Claims. (Cl. 189—36.)



1. In a derrick, the sections of tubular material, a splicing member inserted in the said leg sections at their junction, means for holding the splicing member in place, a splicing plate angular in plan embracing the said sections, means for clamping the plate to the leg sections, girths having their ends abutting the legs at their junction, and means carried by the plate for holding the girths.

1,393,843. GARMENT HOLDER OR HANGER. JOSEPH HENRY SMITH, Denver, Colo. Filed Nov. 1, 1920. Serial No. 420,983. 3 Claims. (Cl. 45—18.)



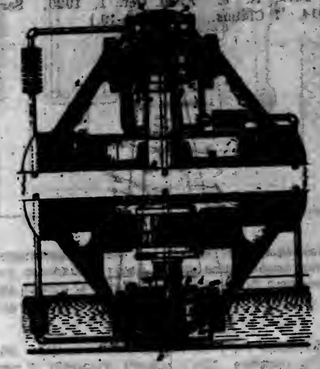
1. A device of the class described comprising a plate, a U-shaped frame secured to two opposite sides of said plate, and having the open end thereof projecting below said plate, a pair of ears projecting from said plate, one on each side thereof, a hat holding member hingedly connected to said ears, a spring coacting with said plate and hat holding member to [illegible] said hat holding member to a position substantially parallel with said plate, means for actuating said hat holding member against the tension of said spring and means for locking said member in adjusted position against the tension of said spring.

1,393,844. OBSERVATION APPARATUS FOR SUBMARINES. ELMER A. SPERRY, Brooklyn, N. Y. Filed Jan. 20, 1917. Serial No. 143,443. 18 Claims. (Cl. 114—16.)



1. The combination with a submarine vessel, of a searchlight therein contained, means for projecting the [illegible] without the vessel and adjustable about the direction of the beam when projected and a sighting device for determining the direction of the beam when projected.

1,393,845. GYROSCOPE. ELMER A. SPERRY, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Original application filed Jan. 25, 1916, Serial No. 74,076. Divided and this application filed Oct. 11, 1917. Serial No. 195,901. 14 Claims. (Cl. 64—48.)



1. In combination, a rotor, a flexible member for normally supporting the major portion of the weight of said rotor and a plurality of radial bearings for transmitting the rotational forces of said rotor.

1,393,846. BUTTON-BLANK GAGE. RICHARD STAMWORTH and LLOYD A. ANGLE, Rochester, N. Y., assignors to Art in Buttons, Inc., Rochester, N. Y., a Corporation of New York. Filed Aug. 26, 1918, Serial No. 251,563. Renewed Aug. 17, 1921. Serial No. 493,097. 6 Claims. (Cl. 33—174.)



1. A button blank gage comprising a base on which the flat face of a button blank is adapted to be positioned, three relatively-movable, equidistantly-arranged gage points spaced from the base a distance equal to the thickness of the button to be made from the blank, and mechanism for simultaneously effecting relative movement between the gage points while maintaining their equidistant relation.

1,393,847. CLOSURE. ROBERT STERLING, East Chicago, Ind. Filed May 14, 1920. Serial No. 381,426. 5 Claims. (Cl. 220—35.)



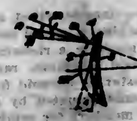
1. In a structure of the character set forth, the combination with an intake member having an inlet opening,

1,393,843. PNEUMATIC DRILLING-MACHINE. JOHN WILLIAM TURNEY, Address, and FRANK HEAD, Upton, London, England. Filed Sept. 27, 1920. Serial No. 413,164. 6 Claims. (Cl. 121—83.)



1. In a pneumatic drilling machine, the combination of a throttle handle having passages communicating with the free air spaces of the machine, means for placing such passages in communication with the atmosphere, and means for closing such passages.

1,393,853. LENS. EDGAR D. TILLYER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed June 24, 1919. Serial No. 306,369. 4 Claims. (Cl. 88—54.)



1. A pair of glasses comprising a lens for each eye of the wearer in which the lenses have different focal values, and in which the curves of one lens are adjusted with respect to the other to equalize the marginal prismatic displacement.

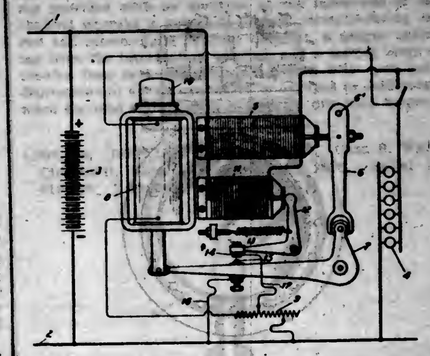
1,393,854. DIRECTION-INDICATOR. AARON R. TOWNSEND, Jr., Washington, D. C. Filed Feb. 23, 1921. Serial No. 447,005. 5 Claims. (Cl. 116—35.)



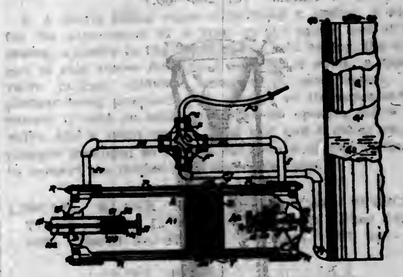
1. A direction indicator comprising a metal strip, a clamp on one end thereof adapted to engage an edge of a windshield section, a pivot pin in the opposite end of said strip, an indicator journaled on said pin, and means to retain said indicator in spaced relation to the strip.

1,393,855. LAMP-VOLTAGE REGULATOR. WILLIAM A. TURNBULL, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Apr. 28, 1917. Serial No. 163,836. 6 Claims. (Cl. 171—239.)

1. In combination, a main compressible pile, an auxiliary pile connected in shunt across said main pile, operating means for said main pile, operating means for said auxiliary pile, said second mentioned operating means being operable by said first mentioned operating means during a portion only of the travel of said first mentioned operating means, controlling means for said first mentioned operating means, and means for compensating for increased mechanical load when said second mentioned operating means is being operated by said first mentioned operating means.



1,393,856. MEASURING DEVICE FOR SEMILIQUIDS. ERNEST T. UPRIGHT, Fresno, Calif., assignor of one-half to Robert W. Upright. Filed July 28, 1920. Serial No. 399,614. 2 Claims. (Cl. 221—103.)



1. In a measuring device the combination of a cylinder, having closed ends, a movable piston therein, a four-way yoke, a lead from each end of the cylinder to said four-way valve, an air tight tank, means for injecting compressed air into the tank, a lead from the inside of the tank near the bottom thereof to said four-way valve, an outlet from said four-way valve, said parts being arranged so that the lead from the tank can be connected with either lead from the cylinder, and the outlet will at all times be connected with the lead from the cylinder not connected with the lead from the tank, means adapted to limit the lateral movement of the piston, a plunger stem extending through each end wall of the cylinder adapted to be pushed outwardly when the piston is at the end of its travel in either direction, substantially as described.

1,393,867. SHIP'S LIGHT. THOMAS UTLEY, Liverpool, England. Filed Sept. 11, 1916. Serial No. 250,806. 2 Claims. (Cl. 114—178.)

1. A combined fixed light and ventilator, comprising a frame shaped to constitute the ventilating casing, a valve detachably mounted on a vertical spindle in said casing, a valve seating plate supporting above the valve on

1,393,840. NECKTIE-STRETCHER. HENRY H. [illegible], New York, N. Y. Filed Oct. 1, 1920. Serial No. 414,814. 7 Claims. (Cl. [illegible]—33.)



1. A neck-tie stretcher comprising a flat body portion, and a pair of flat side portions adjustably mounted to overlap said flat body portion, substantially as set forth.

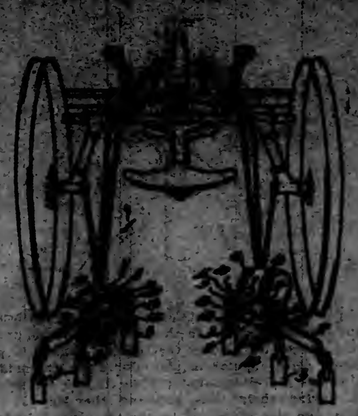
1,393,849. TIRE. HERMAN H. SWAN, Grand Rapids, Mich. Filed June 4, 1920. Serial No. 386,452. 1 Claim. (Cl. 152—14.)



A tire having on each side of its central plane which is perpendicular to its axis stepped projections spirally disposed about the tire's exterior axis and extending longitudinally in the tire's circumferential direction and laterally in the direction of the exterior axis, each projection extending from laterally further from the central plane of the tire width in proportion to said axis than the projection nearer the tire's periphery, and the stepped projections on one side of said vertical plane winding in a right-hand direction and the stepped projections on the other side of said central plane winding in a left-hand direction.

1,393,860. SPRAYER ATTACHMENT FOR CULTIVATORS. THEODORE F. THOMPSON, Astoria, S. D. Filed Nov. 8, 1920. Serial No. 422,883. 4 Claims. (Cl. 299—39.)

A cultivator attachment of the character described comprising a receptacle holder, shovel beam engaging



respectively by the clamps for engaging a shovel beam passing through the clamps intermediate the set screws and bracket plates.

1,393,861. JACK. HERMAN A. THOMSEN, Washington, D. C. Filed Nov. 3, 1919. Serial No. 334,673. Renewed Feb. 28, 1921. Serial No. 447,239. 2 Claims. (Cl. 254—96.)



1. A jack of the character described comprising a substantially rectangular casing open at its bottom and carrying at one side elongating sleeves engageable about the axis of a vehicle, an extension formed at one end of the upper portion of the casing, a shaft journaled through the upper portion of the casing and the extension, said shaft being oppositely threaded adjacent its ends and being limited to rotary movement, the underside of the top of the casing being formed with a guide groove, nut members adjustable along said groove and engaged upon the threaded portions of said shaft, a long rough having the ends of the uppermost links connected with said nut members, a foot member connected with the lowermost links of the long tongs, and means for turning said shaft comprising a worm wheel secured thereon within said extension, a shaft journaled through said extension at right angles to said threaded shaft and having one end fashioned for engagement by a handle, and a worm on said second named shaft meshing with the worm wheel.

ledges fit said casing and retained by wedge shaped bushing on the sides of the plate and by a detachable sidegrip plate between the upper part of the said casing and the casing

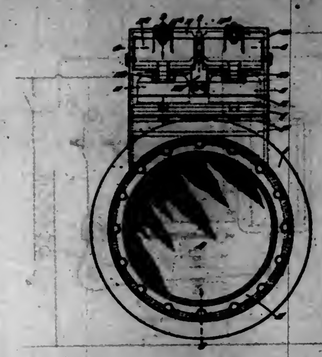
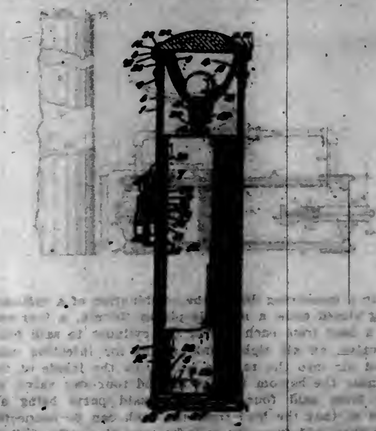


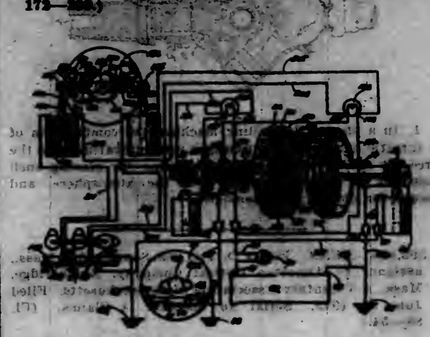
plate and a detachable cover having a ventilating opening therein and secured over the opening in the said casing through which latter opening the valve and casing plate can be removed or replaced.

1,393,859. PORTABLE ELECTRIC LIGHT. CHARLES WAGNER, Jamaica, N. Y., assignor to Blumlein Hartman, New York, N. Y. Filed Nov. 12, 1919. Serial No. 337,542. 3 Claims. (Cl. 200—60.)



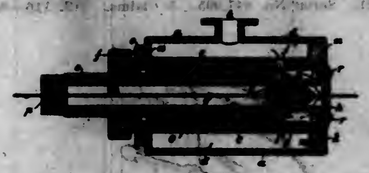
2. In a flashlight, the combination of a battery and lamp casing, a pair of line terminals held to the casing, a metallic housing held to the exterior of the casing electrically connected with one terminal and including the other terminal, a resilient metallic contact plate within the housing secured at one end to the housing and adapted to be flexed into engagement with the inclosed terminal, said housing having a key slot in its outer wall, a push button for flexing the contact plate having a reduced shank portion normally outside of the housing adapted to pass into the narrow portion of the slot and a larger shank portion normally engaged in the wider portion of the slot provided around its inner end with a laterally projecting flange normally engaging the inner side of the outer wall of the housing, the flange shank portion of the button being bevoled adjacent its outer end while its inner being provided at its inner end with a rifled bearing sliding and rotating engagement with the outer surface of the contact plate.

1,393,880. SYNCHRONIZER FOR TALKING MOTION-PICTURES. KENNETH M. WALSH, Chicago, Ill. Filed Feb. 17, 1921. Serial No. 445,242. 5 Claims. (Cl. 172—238.)



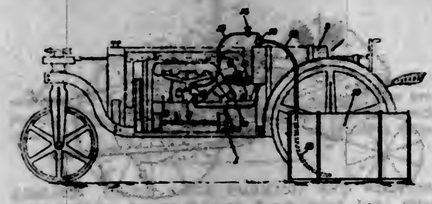
1. In apparatus of the class described, a member adapted to be driven by one machine, a second member adapted to be driven by a second machine, a rheostat for controlling the speed of one of said machines, ratchet mechanism for operating said rheostat, a solenoid for operating said ratchet mechanism, means actuated by a change in the relative speeds of said members for establishing a circuit through said solenoid, and means for intermittently interrupting the circuit of said solenoid to effect the operation of said ratchet mechanism.

1,393,890. MACHINE FOR COATING OR COVERING MATERIAL. HOWARD CHESTER WEEKS, Jackson, Mich. Filed Aug. 12, 1920. Serial No. 403,609. 4 Claims. (Cl. 18—13.)



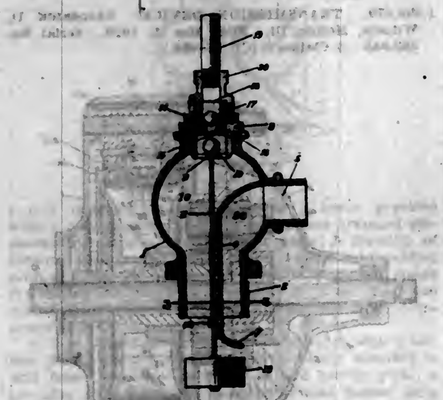
1. In an apparatus for covering ribbons and similar forms of material with a coating of plastic material the combination, with a casing open at one end, into which the plastic material may be introduced under pressure, of a guide and a draw-plate for the ribbon, and a member holding these two in alinement and slightly spaced apart, said member being in the form of a short flanged tube to the flange of which the draw plate is fastened and in the unflanged end of which the guide is supported, said tube being provided with radial perforations through which the plastic material may pass under pressure to the space in the tube interior between the guide and draw plate, and the flange of the tube being adapted to fit into and close the open end of the casing, whereby the guide, draw-plate and connecting member may be removed from or replaced in the casing without disturbing the relative adjustment of guide and draw-plate.

1,393,891. METHOD OF FILLING ENGINE GAS-TANKS. HENRY J. WEIERSHAUSEN, Stockton, Calif. Filed Apr. 5, 1920. Serial No. 371,472. 5 Claims. (Cl. 123—198.)



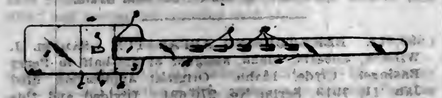
1. A hollow body member adapted to be secured on the upper side of an engine gas-tank over an orifice therein a pipe leading from the top of the body to the intake manifold of the engine, a vertically movable float-valve mounted in the body and adapted to close said pipe when the tank is full, and a relatively large pipe leading from one side of the body below the first named pipe and adapted to be immersed in a source of fuel supply.

1,393,892. SEPARATOR FOR SUCTION FUEL-TANK-FILLING SYSTEMS. HENRY J. WEIERSHAUSER, Stockton, Calif. Filed Feb. 5, 1921. Serial No. 442,645. 2 Claims. (Cl. 158—36.)



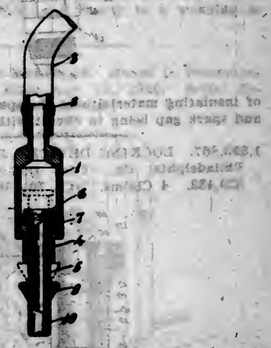
1. A device of the character described comprising in a unit, a body member adapted to be connected to a tank and having a continuous air passageway therethrough, a fuel passageway communicating with the air passageway only a one end of said body, and an automatic float valve carried by the body and arranged to close the air-passage when the tank is full.

1,393,893. SEAL. JOHN L. WEINMANN, St. Louis, Mo. Filed June 6, 1919. Serial No. 302,100. 1 Claim. (Cl. 292—322.)



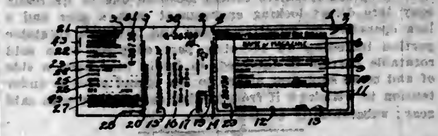
A seal comprising a strip having a comparatively wide part at one end thereof, said wide part having end portions and an intermediate portion, said intermediate portion being folded upon one of the end portions and the other end portion being folded upon the intermediate portion whereby the intermediate portion is interposed between the said end portions, and one of said end portions being provided with a raised portion in the form of a channel, extending from one end of said end portion to the other end thereof, the last mentioned end portion being provided with an aperture at the inner end of said channel whereby a keeper is formed, rivets securing said end and intermediate portions together, a tongue extending from the intermediate portion, and a sealing strip extending from said channel and provided with open ended depressions to act as catches to be engaged by said tongue when the said sealing strip is inserted into said keeper.

1,393,864. BOTTLE-FILLING VALVE. CARL S. WHITE, Cincinnati, Ohio. Filed Oct. 27, 1920. Serial No. 419,929. 2 Claims. (Cl. 251—116.)



2. A bottle filling valve comprising a casing, a nipple for the attachment of a hose on the upper end of said casing, a sleeve in the lower end of said casing, the upper end of said sleeve forming a seat for a valve, a tubular valve plunger slidably mounted in said sleeve, said plunger being provided with a valve on its upper end arranged to seat on said valve seat, an opening below said valve, and a spout on its lower end and a collar on said plunger arranged to rest in the mouth of the bottle and to support the device with the valve open.

1,393,865. BLANK FOR PERIODICAL SUBSCRIPTIONS. HARRY L. WELLS, Chicago, Ill. Filed June 2, 1921. Serial No. 474,556. 3 Claims. (Cl. 283—60.)



1. A postal card containing on the address side the name and address of a company soliciting subscriptions to periodicals and on the other side a contract of subscription to a periodical, a receipt coupon detachably connected to said postal card and bearing a contract whereby it may be used in part payment of an extension of said subscription, and a stub detachably connected to said two other parts and having suitably designated spaces for entering a record of said subscription.

1,393,866. SPARK-PLUG COIL. RALPH H. WHELAN, Detroit, Mich., assignor to Essex Motors, Detroit, Mich., a Corporation of Michigan. Filed May 31, 1919. Serial No. 301,972. 2 Claims. (Cl. 123—148.)

1. A spark plug unit comprising a body of molded insulating material, a metallic base secured thereto, a condenser contained in a chamber within said body, a spark gap mounted on said body, the primary and secondary

windings of a disruptive discharge coil surrounding said body, a sheath for said windings, and a removable cover



of insulating material over the spark gap, said condenser and spark gap being in circuit with the primary winding.

1,393,867. LOCKING DEVICE. Jessam Mercer White, Philadelphia, Pa. Filed Oct. 9, 1919. Serial No. 329,433. 4 Claims. (Cl. 70—90.)



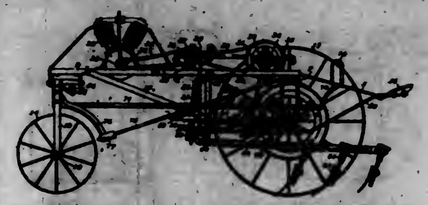
1. In a device of the character described, the combination of spring-operative means movable due to its resiliency into direct locking engagement with a gear and a lock operative by selective means and having a rotatable portion including an eccentric part adapted, when said rotatable portion is actuated, to freely bear upon a side of and move said first means to flex it and place it under tension to withdraw it from locking engagement with said gear; substantially as described.

1,393,868. SLICING-MACHINE. Solomon Wile, Rochester, N. Y. Filed Aug. 25, 1920. Serial No. 405,991. 7 Claims. (Cl. 17—24.)



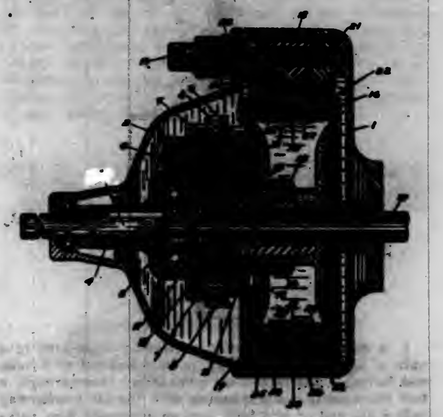
2. A slicing machine comprising a rotary cutter, and a segmental guard for the cutter formed to expose the effective cutting portion of such cutter and hinged at its lower edge to swing away from said cutter.

1,393,869. STEERING MECHANISM FOR CULTIVATORS. Dazzeo E. Wilson, Waterloo, Iowa. Filed June 18, 1920. Serial No. 389,298. 5 Claims. (Cl. 97—36.)



1. In a device of the character described, carrying-wheels, dirigible steering-wheels, a main frame supported on said wheels, a gang-frame having at one end a universal-joint connection with said main frame, and a controller movably connected to said steering-wheels and loosely connected to said gang-frame and movable longitudinally to change the direction of travel of the steering-wheels independently of the gang-frame, or to be moved simultaneously longitudinally and in another direction to operate both the steering mechanism and the gang-frame.

1,393,870. TRANSMISSION DEVICE. Frederick D. Wilson, Moline, Ill. Filed Mar. 1, 1920. Serial No. 362,242. 5 Claims. (Cl. 74—24.)



1. In combination with a planetary gear transmission mechanism, and brake drums operatively connected therewith; an expansion ring adapted for normal engagement with said drums, to cause the same to rotate as a unit; means for holding either of said drums in fixed position independently of the other; and means for contracting said ring, to disengage the same from said drum.

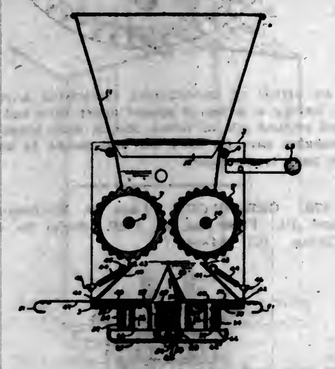
1,393,871. BEET-TOPPING APPARATUS. Samuel J. Wilson, Roberts, Idaho, assignor of one-half to Perry Bastinger, Clyde, Idaho. Original application filed Jan. 11, 1919, Serial No. 270,691. Divided and this application filed Mar. 10, 1920. Serial No. 364,801. 2 Claims. (Cl. 55—107.)

1. A machine of the character described including a movable member, spaced teeth carried by said member, each tooth having convex sides merging with each other at their edges, ribs projecting from the intermediate portion of said sides longitudinally thereof, said ribs and convex sides tapering toward and merging at a point



centrally of one end of the tooth, and opposed lips projecting from said tapered end in alinement with each other and in right angular relation to said convex sides.

1,393,872. FRIED-CAKE FORMING AND CUTTING MACHINE. Jay B. Winans, South Bend, Ind. Filed Nov. 8, 1920. Serial No. 422,739. 5 Claims. (Cl. 107—14.)



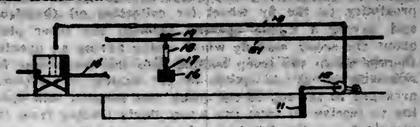
1. A doughnut cutter comprising a frame provided with a bottom plate; dough guiding means arranged substantially centrally of said bottom plate; a plurality of forming dies arranged in a series around said guiding means; means for feeding the dough to said dies; means for cutting the dough as it emerges from the dies; and means for closing the dies to prevent the feed of the dough thereto.

4. In a doughnut cutter, a frame provided with a bottom plate; a shaft vertically and rotatably mounted in said frame adjacent the center of said bottom plate; a plurality of forming dies mounted in said bottom plate around said shaft; means for feeding dough to said dies; a block carried by said shaft and vertically adjustable thereon; a plurality of cutters mounted upon said block and adapted to swing across the face of said dies; and means for rotating said shaft.

5. In a doughnut cutter, a frame provided with a bottom plate; a shaft vertically and rotatably mounted in said frame adjacent the center of said bottom plate; a plurality of forming dies detachably mounted in said bottom plate around said shaft; means for feeding dough to said dies; a block carried by said shaft and vertically adjustable thereon; a plurality of cutters mounted upon said block and adapted to swing across the face of said dies; and means for rotating said shaft.

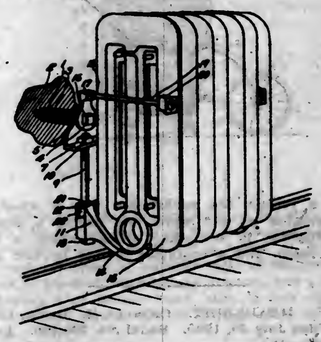
1,393,873. METHOD OF PRESERVING OLIVES. Henry N. Wolff, Oroville, Calif., assignor to Sunical Packing Company, San Francisco, Calif., a Corporation of California. Filed Sept. 2, 1919. Serial No. 321,107. 8 Claims. (Cl. 99—1.)

1. The method of preserving olives which comprises treating unit lots of the olives successively in circulating solutions of progressively lessened strength and of predetermined temperature, and washing each unit lot after each treatment.



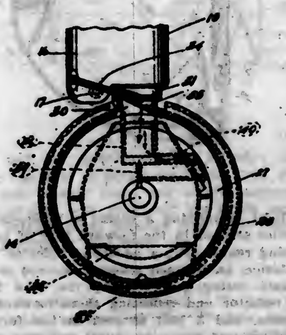
3. That treatment of olives which consists of charging a foraminous container with a load of olives, and successively shifting the load of olives, without change of container, from one vat to another in successive order; the olives being subjected to a lye solution in the first vat, to a washing in water in the next vat, to a weaker lye solution in the third, and finally to a washing in water in the fourth.

1,393,874. RADIATOR-BRACKET. Miner D. Woodling, Kansas City, Mo. Filed Nov. 18, 1920. Serial No. 424,874. 5 Claims. (Cl. 248—30.)



1. A radiator bracket comprising a bolt, a rod swingingly suspended from said bolt, a radiator seating bracket on said rod, a vertically swinging tie rod member on the bolt, and a radiator engaging tie rod eccentrically engaging said tie rod member.

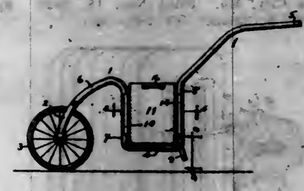
1,393,875. OILING SYSTEM. Howard P. Woodworth, Bay City, Mich. Filed Dec. 12, 1919. Serial No. 344,390. 8 Claims. (Cl. 184—6.)



5. In an oiling system for internal combustion engines, the combination of a crank case, a crank shaft having bearings in the crank case, a fly wheel on the shaft, a casing for the fly wheel adapted to contain oil, a cover

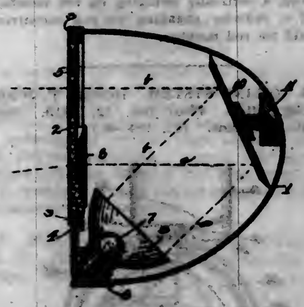
plate removably mounted on the top of the fly wheel casing and having a scoop adapted to project into close proximity to the fly wheel for collecting oil therefrom and having a nipple opening through the cover plate about the scoop, said fly wheel casing having an opening therein above the scoop leading into the crank case for receiving oil at all speeds of the engine, a receptacle arranged in the top of the crank case beneath said opening to receive oil from the scoop, ducts leading from the receptacle to the bearings of the crank shaft, a tank arranged above the crank case, a cam shaft in the tank, and a duct leading from said nipple to the tank for delivering oil from the scoop to the tank when the engine is operated at normal speed.

1,393,876. VEHICLE. Lucy W. Wright, Elkhart, Ind. Filed Oct. 18, 1919. Serial No. 331,500. 5 Claims. (Cl. 280—52.)



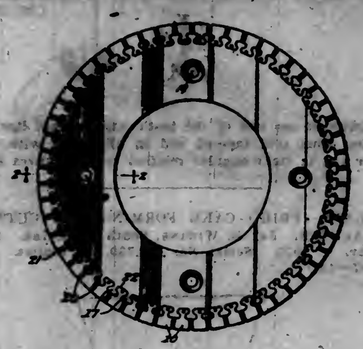
1. In a vehicle, the combination with a wheel, of a reach mounted on said wheel and having a depending saddle disposed in the plane of the wheel, a handle on said reach, and a container carried by said saddle.

1,393,877. HEADLIGHT. Charles H. Allen, Chicago, Ill. Filed July 29, 1920. Serial No. 399,736. 1 Claim. (Cl. 240—41.)



A headlight comprising a casing a luminous ray producing device secured in the forward part of said casing and inclining rearwardly, a parabolic reflector surrounding said device, an inclined reflector secured to the rear wall of said casing for receiving the rays from said parabolic reflector and reflecting them forward in horizontal planes, and a lens secured in the forward end of said casing, said lens comprising an upper plain portion and a lower plano-convex portion whereby the upper pencils of light is directed in horizontal planes and the lower pencils of light are directed downward and laterally.

1,393,878. MEMBERS OF BUILDING CONSTITUTING. Terrence G. Arvin, Dayton, Ohio. Filed Aug. 6, 1919. Serial No. 315,772. 7 Claims. (Cl. 171—321.)



4. An article of manufacture comprising a commutator, having a series of spaced apart bars and a compressed stacked pile of fabric blanks, each blank having an engaging part for each bar and means to hold said stacks under compression.

1,393,879. GREASE-CUP. Leon N. Bourdeau, Rock Island, Ill. Filed Aug. 18, 1920. Serial No. 404,481. 2 Claims. (Cl. 184—48.)



2. In a device of the class described, a bushing adapted for mounting on the connecting rod of a locomotive; a plug rotatably adjustable in said bushing, and provided near its inner end with an internal transverse channel; and openings connecting the ends of said channel with the inner face of said plug, and provided with inclined faces on the sides of the openings opposite to the direction of movement of the plug, when being seated.

1,393,880. METHOD OF PRODUCING SILICON-STEEL SHEETS. Vance B. Brown, Tarentum, Pa. Filed June 21, 1919. Serial No. 305,923. 6 Claims. (Cl. 29—18.)

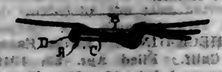
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6. The method of rolling low hysteresis action silicon steel sheets, which consists in producing a sheet of silicon steel, in inserting said sheet within a pack of a dissimilar steel finished to a less extent, in heating said pack, in rolling the same to such length as will give the desired thickness to the inserted sheet and then in annealing the finished sheet.

1,393,881. BUSHING. Rudolph E. Burg, San Diego, Calif. Filed Nov. 3, 1919. Serial No. 335,405. 1 Claim. (Cl. 64—32.)

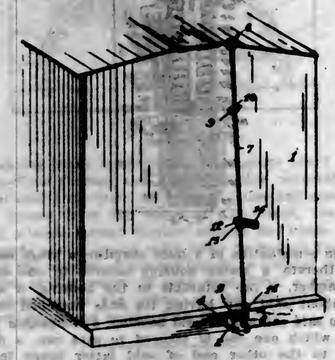
A bushing comprising two oppositely disposed substantially rectangular flanges, the corresponding sides of

which are integrally held together by a closely fitting flat embracing sleeve; and so proportioned that when the ends of a bolt are inserted upwardly through the two flanges and passed over the upper and under the lower at their



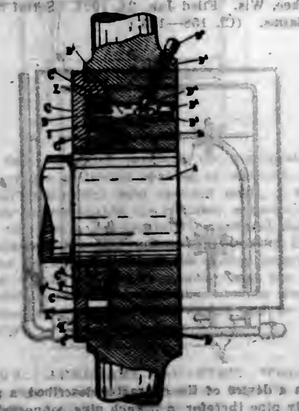
sides opposite the hinge, the stress exerted by the belt will hold the sleeve in engagement with the exterior of the belt, and automatically relatively position the frame into gripping relation irrespective of which is the outward frame.

1,393,882. OPERATING APPLIANCE FOR ANGLE-COCKS FOR AIR-HOSE. Lucius Cornell, Brooklyn, N. Y. Filed July 2, 1920. Serial No. 393,611. 4 Claims. (Cl. 137—139.)



4. The combination with a car provided with an air hose and an angle cock at the car end connection, of an upright operating rod movably supported on the car end and extending to the car top, said rod being connected with the angle cock plug whereby the operating rod can be swung into position to turn the angle cock plug.

1,393,883. ADJUSTABLE HUB-PLATE. Charles W. Dake, Chicago, Ill. Filed July 21, 1919. Serial No. 312,264. 11 Claims. (Cl. 64—25.)



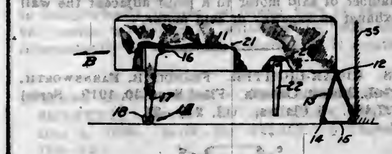
1. A hub having an annular recess on one side, in combination with a plate having two internally threaded flanges, two rings externally threaded to engage said threads on the flanges and means for rotating the rings to advance the plate.

1,393,884. ADJUSTABLE HUB-PLATE. Charles W. Dake, Chicago, Ill. Filed July 21, 1919. Serial No. 312,265. 14 Claims. (Cl. 64—25.)



1. A hub having an annular recess on one side, in combination with a ring seated in the recess and having an outer surface which consists of a series of concentric annuli each composed of inclined surfaces staggered with reference to those of the adjacent annulus, and a wearing plate having a projection which extends into the recess and is provided with a surface corresponding to that of the ring.

1,393,885. TILTING BED. Georgh Felix De Grasse, Los Angeles, Calif. Filed Dec. 11, 1920. Serial No. 429,928. 7 Claims. (Cl. 5—18.)

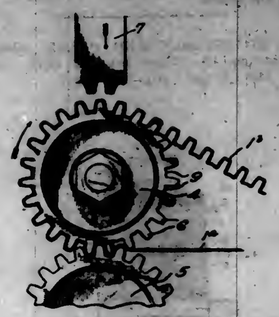


2. In a bed, the combination of: a body; outer legs supporting one side of said body; inner legs pivoted to the floor and to said body, and wholly supporting the other side of said body with said bed in its usable position; and balance props between said inner legs and the center of gravity of said body.

1,393,886. MACHINE ELEMENT. Walter G. Doty, Dayton, Ohio, assignor to The Wagner Engineering Company, Dayton, Ohio, a Corporation of Ohio. Filed June 25, 1917. Serial No. 176,870. 8 Claims. (Cl. 74—41.)

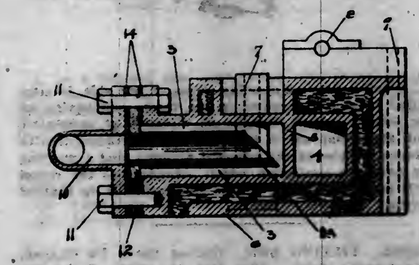
1. As an article of manufacture, a gear comprising a cast metal body, sheet metal rims for the teeth and an

interposed stratum of metal of different physical characteristic, said cast metal body, sheet metal rim and in-



terposed stratum of different metal being integrally united into a conjoint body.

1,393,887. MANIFOLD FOR INTERNAL-COMBUSTION MOTORS. DANIEL S. DU BOIS, Portland, Oreg. Filed Sept. 22, 1920. Serial No. 411,928. 1 Claim. (Cl. 123—122.)



In an internal combustion motor, a flange secured between the intake manifold and the motor, and a tube integral with said flange and having a beveled end, the longest portion of said tube extending into the intake valve chamber of said motor to a point adjacent the wall of the exhaust passageway of said motor.

1,393,888. CIGAR-LIGHTER. FRANCIS B. FARNSWORTH, Montreal, Quebec, Canada. Filed Sept. 30, 1919. Serial No. 327,485. 5 Claims. (Cl. 219—21.)



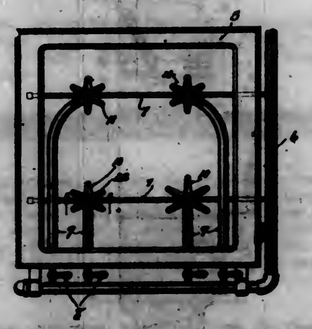
1. A lighter comprising a carrier, an insulated plug in the carrier, electrical connections carried by the plug, and including a high resistance igniter exposed at the outer end of the plug, and electrical connections within the carrier and presenting an open circuit including the connection in the plug and manually operated means for closing the circuit.

1,393,889. CHECK-HINGE. EMILE FRANCKAERTS, San Francisco, Calif. Filed Apr. 22, 1919, Serial No. 291,910. Renewed July 18, 1921. Serial No. 485,788. 3 Claims. (Cl. 16—54.)



1. The combination of a fluid chamber, a hinge leaf attached thereto, a spring housing secured to one end of said chamber, a cap rotatable in the housing, a spring coiled about said cap having its ends attached respectively to said cap and to said housing, a companion hinge leaf of which one end is secured to said cap, a device secured to the other end of said latter hinge leaf, a spring housing rotatable about said second-named cap and also rotatable relative to said fluid chamber, a coiled spring within said last-named spring housing, of which one end is secured to said last-named spring housing, and the other to said last-named cap, and means in said fluid chamber for controlling the turning of said hinge leaves relative to each other.

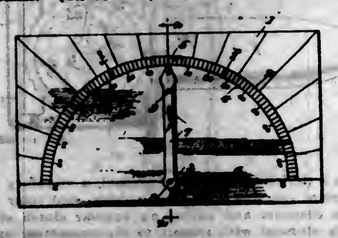
1,393,890. GAS-STOVE LIGHTER. CONRAD FUHR, Milwaukee, Wis. Filed Jan. 24, 1921. Serial No. 439,495. 5 Claims. (Cl. 158—115.)



5. In a device of the character described, a gas burner, a supply pipe therefor, a branch pipe connected with said supply pipe, a valve in said supply pipe between the branch pipe and the burner for controlling the supply of gas

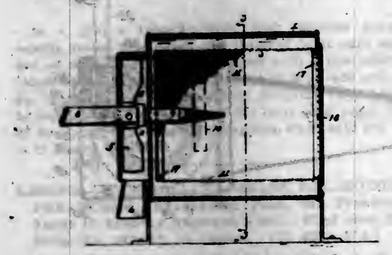
to said burner, a vertical cylindrical pilot burner having a series of lateral outlet openings to supply gas for the pilot light, means for adjusting said pilot burner to control the amount of gas supplied thereto, said first named burner being movably mounted on said branch pipe and a cap carried by the pilot burner above the pilot light openings and provided with a peripheral downwardly projecting lip to trap the gas supplied to said first named burner and direct it into contact with the pilot lights.

1,393,891. BEARING-BOARD. SOPUS E. HANSEN, Seattle, Wash. Filed Dec. 3, 1919. Serial No. 342,105. 1 Claim. (Cl. 33—72.)



A bearing board comprising a rectangular board having a semi-circle thereon and a straight line connecting the ends of said semi-circle, said straight line and semi-circle being spaced from the edges of the board, the board having a scale formed thereon around the inside of the semi-circle and a second scale being formed on the board around the outside of the semi-circle, a pointer pivotally mounted at the center of said semi-circle, a rear sight vane mounted at the center of the semi-circle and a forward sight-vane mounted on the pointer.

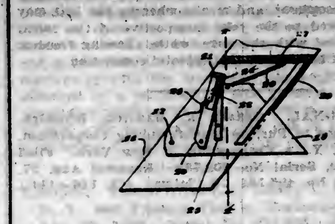
1,393,892. DUST-COLLECTING MACHINE. JACOB C. LUDEN, Reading, Pa. Filed Jan. 31, 1921. Serial No. 441,238. 2 Claims. (Cl. 51—270.)



1. In a dust collecting machine the combination of a casing having a restricted opening at one end, a suction chamber into which said opening leads, a suction fan rotatably located within the chamber, a wheel spindle carried by the fan, a substantially cylindrical dust collecting member within the casing, said member forming a closure for the opposite end of the casing, longitudinal ribs formed on the cylindrical member, and the casing having receiving grooves for said ribs, whereby the cylindrical member may slide into the casing and be guided longitudinally.

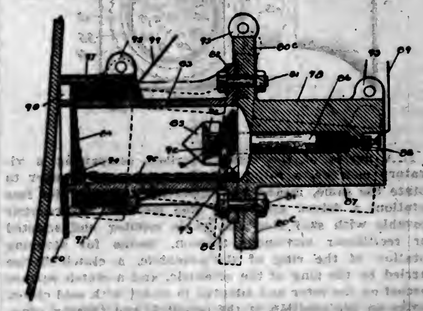
1,393,893. AUXILIARY CAR-STEP. WILLIAM C. MCFEELY, New York, N. Y. Filed Dec. 20, 1920. Serial No. 431,960. 1 Claim. (Cl. 105—447.)

The combination with the sight of steps of a railway car, of an auxiliary step pivotally carried by the sight, the side of the sight having an inclined angular slot, a lever pivotally carried by one end of the auxiliary step, a second lever pivotally carried by the said end of the auxiliary step and slidably engaging the first lever, inter-



locking means between the levers for engagement when the step is in lowered position and a spring for returning the step into elevated position, the interlocking means being releasable to permit the spring to act.

1,393,894. SYSTEM OF RAISING SUNKEN SHIPS. DANIEL F. MCGILL, Portland, Oreg. Filed July 5, 1916, Serial No. 107,604. Renewed Mar. 14, 1921. Serial No. 452,227. 14 Claims. (Cl. 114—51.)



1. In a system for raising sunken vessels; a cylindrical pneumatic tank; a plurality of hoisting cables, each given several turns about said tank, thereby rotatably mounting said tank upon said cables; means to secure the lower end of each of said cables to said sunken vessel; means to independently tighten or loosen each of said cables; and means to continually withdraw air from said tank independently of the position thereof as it rotates.

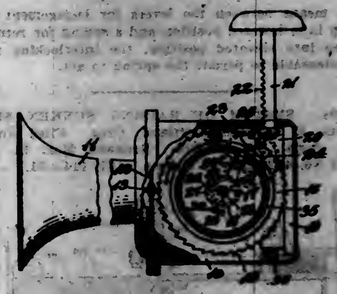
1,393,895. TIGHTENER-YOKE FOR FRICTION-CLUTCH SEGMENTS. EDISON MCLEOD, Banta, Calif. Filed Dec. 4, 1919. Serial No. 342,457. 3 Claims. (Cl. 192—75.)



1. In combination with a shaft, a friction wheel thereon, a friction segment adapted to engage with the wheel,

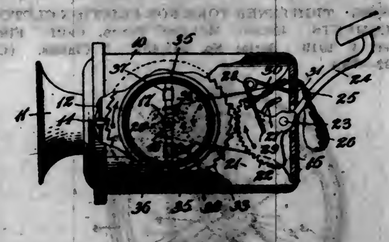
a shaft on the shaft adapted to slide thereon, the latter; a rigid yoke embracing eccentrically the segment and pivotally secured to the shaft on lines parallel to the plane of the wheel on two lost elasticity secured to the segment, and means whereby the bolt may be rigidly secured to the yoke irrespective of the radial alinement thereof with the yoke, while allowing freedom of movement of both about their pivotal connection.

1,393,896. SIGNAL. Gerard R. Massico, Brooklyn, N. Y., assignor to Puritan Manufacturing Corporation, Brooklyn, N. Y., a Corporation of New York. Filed June 9, 1919, Serial No. 302,739. Renewed Aug. 27, 1921. Serial No. 496,161. 6 Claims. (Cl. 116—144.)



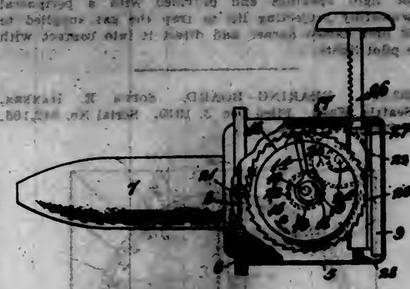
1. A device of the class described comprising a vibratory member, a rotor co-acting with said member to rotate the same, means for supporting the rotor for free rotation, a driven guide and stop member, an eccentric movable with said stop and guide member and adapted for rectilinear movement thereon, means for stopping rotation of the ring of the eccentric, a clutch device carried by the ring of the eccentric, and a clutch surface formed on the rotor and adapted to co-act with said clutch device on one position of the eccentric and thereby cause the rotor and said clutch device to revolve together.

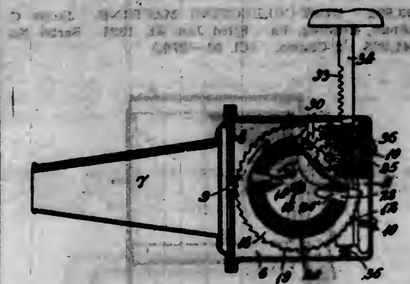
1,393,897. SIGNAL. Gerard R. Massico, Brooklyn, N. Y., assignor to Puritan Manufacturing Corporation, Brooklyn, N. Y., a Corporation of New York. Filed June 9, 1919, Serial No. 302,740. Renewed Aug. 27, 1921. Serial No. 496,162. 8 Claims. (Cl. 116—144.)



1. In a device of the class described, a vibratory member, a rotor co-acting with said member, said rotor having an annular clutch surface, a revolving body independent of said rotor, a rocking clutch element mounted on the revolving body and extending radially from a point near the supporting axis of the rotor to a point near said internal clutch surface and adapted to co-act with the clutch surface, said body having a portion adapted for rigid engagement with the clutch element when the latter is in one position and serving to hold the element in clutch contact with said surface, and means for revolving said body.

1,393,898. SIGNAL. Gerard R. Massico, Brooklyn, N. Y., assignor to Puritan Manufacturing Corporation, Brooklyn, N. Y., a Corporation of New York. Filed June 9, 1919, Serial No. 302,742. Renewed Aug. 27, 1921. Serial No. 496,163. 4 Claims. (Cl. 116—144.)





1. In a device of the class described, a vibratory member, a rotor co-acting with said member, said rotor having an annular internal clutch surface, a revolving body independent of said rotor, a rocking clutch element mounted on the revolving body and extending radially from a point near the supporting axis of the rotor to a point near said internal clutch surface and adapted to co-act with the clutch surface, said body having a portion adapted for rigid engagement with the clutch element when the latter is in one position and serving to hold the element in clutch contact with said surface, and means for revolving said body.

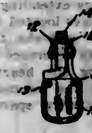
1,393,899. CHILD'S SLEEPING-GARMENT. Isaac G. [illegible], Minneapolis, Minn. Filed Feb. 9, 1922. Serial No. 449,575. 4 Claims. (Cl. 2—264.)

A garment of the kind described having attached foot portions with openings at the tops for the foot portions extended approximately halfway around the legs and adapting the foot portions, when folded, to be turned up



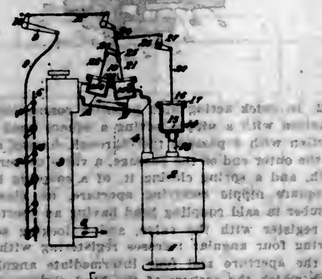
so that the feet can project through the legs of the garment, and means for fastening the folded and back-turned foot portions against the backs of the legs of the garment.

1,393,901. PIN. Eugene Morehouse, Providence, R. I., assignor to B. A. Hallew & Company Inc., Providence, R. I., a Corporation of Rhode Island. Filed July 8, 1920. Serial No. 394,759. 1 Claim. (Cl. 24—160.)



In a pin, a trough-shaped body portion having inwardly rolled side edges and integral joint ears near one end of said body, in combination with a pin tongue provided with a head portion pivoted in said ears and having an integral laterally-extending fulcrum stop positioned to engage said rolled edge of the body at a point forward of the front edge of said joint ears when said pin tongue is in closed position.

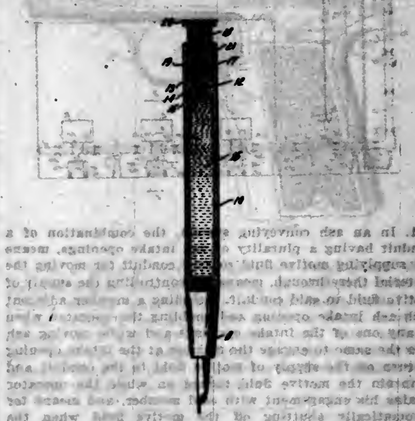
1,393,902. CONTROLLING MEANS FOR MOTOR-TEMPERATURES. Stanley H. Page, San Francisco, and Jacob B. Steuble, Oakland, Calif. Filed Mar. 2, 1921. Serial No. 449,218. 3 Claims. (Cl. 123—174.)



3. In combination with an internal combustion engine cylinder provided with a water jacket, a circulating water

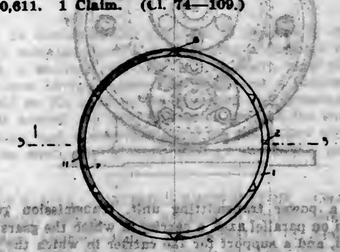
system connected with said jacket, means for controlling the cooling of the water within said system, a plurality of thermostatic members within said water system and each including a movable rod, said members operating at different temperatures, a link pivotally connecting said rods, an operating connection between said controlling means and said link and including a lever shiftable at one end in said link, a movable pressure actuated member communicating with the interior of the engine cylinder and operated by a variation of fluid pressure therein, and a connection between the same and said movable link whereby said lever is operated in said link in accordance with a variation of fluid pressure within the cylinder.

1,393,903. FOUNTAIN-PEN. Henry L. Perry, Yonkers, N. Y., and Thomas Veitch, Englewood, N. J. Filed Apr. 29, 1920. Serial No. 377,575. 9 Claims. (Cl. 120—42.)



9. A fountain pen including a barrel, a partition dividing said barrel into a liquid reservoir and an ink-paste containing magazine open at its end opposite said partition, said partition being provided with a check valve-controlled opening through which said reservoir and said magazine are adapted to communicate, said magazine being provided with interior screw-threads, and a plug having threads meshing with those of said magazine closing the latter and bearing throughout the area of said magazine against the ink-paste therein for forcibly feeding ink-paste from said magazine into said reservoir.

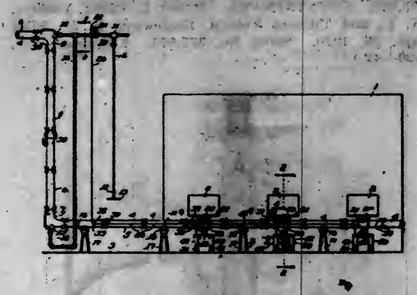
1,393,904. PISTON-RING. Hakk. B. Persing, San Francisco, Calif. Filed Oct. 30, 1920. Serial No. 420,611. 1 Claim. (Cl. 74—109.)



A piston ring having its lower edge beveled outwardly and upwardly from the outer face of the ring to the inner face thereof, and bearing portions dividing the beveled

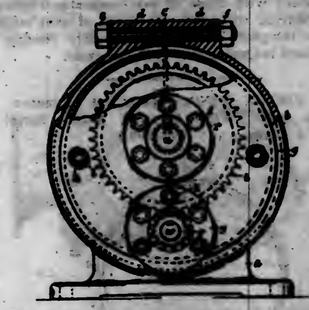
portions into contact, which bearing portions lay equal in thickness to the thickness of the valve-body portion and furthermore extend from the outer face to the inner face of the ring and are tapered on opposite sides by a point toward the outer face of the ring.

1,293,905. VALVE MECHANISM FOR ASH-CONVEYING OR LIKE SYSTEMS. Herman A. Poppenhusen, Hammond, Ind., and Arthur P. Simons, Chicago, Ill., assignors to Green Engineering Company, East Chicago, Ind., a Corporation of Illinois. Filed Feb. 21, 1919. Serial No. 278,351. 8 Claims. (Cl. 302—36.)



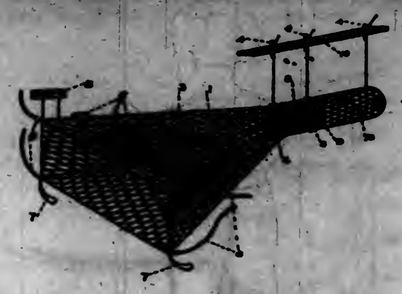
1. In an ash conveying system, the combination of a conduit having a plurality of ash intake openings, means for supplying motive fluid to said conduit for moving the material therethrough, means for controlling the supply of motive fluid to said conduit, including a member adjacent each ash intake opening and enabling the operator when at any one of the intake openings and while moving ash into the same to engage the member at the intake opening to turn on the supply of motive fluid to the conduit and maintain the motive fluid turned on while the operator retains his engagement with said member, and means for automatically shutting off the motive fluid when the operator releases said member.

1,293,906. SPEED-CHANGING UNIT. Clifford H. Ramsey, Glen Rock, N. J. Filed May 4, 1920. Serial No. 378,822. 4 Claims. (Cl. 74—7.)



1. In a power transmitting unit, transmission gears journaled on parallel axes, a carrier in which the gears are journaled, and a support for the carrier in which the carrier is rotatively adjustable on an axis parallel with one of the first-named axes, said support having means to grip the carrier extending around the axis on which the carrier is adjustable and also extending around the gears.

1,293,907. FLOATING FISH-TRAP. Reuben Thomas Fields, Wash. Filed Nov. 22, 1919. Serial No. 339,599. 2 Claims. (Cl. 43—103.)



1. A fish trap, comprising in combination, a heart substantially triangular in form, provided at one end with an opening bounded by a metallic ring, a pot cylindrical in form having a rounded closed end and the other end provided with an opening bounded by a metallic ring, interposed between the heart and the pot, a tunnel having a metallic framework cylindrical in outline, the end adjacent the heart having an opening coterminous with said opening in the heart, the end adjacent the pot and communicating therewith, having an opening reduced in diameter, a plurality of cords interiorly located and stretched between said openings in the tunnel, said cords covered by netting and defining in form a truncated cone, said framework also covered by netting and defining in form a cylinder, the heart, tunnel and pot connected with buoys provided with openings therethrough, lines extending from the trap and through said openings, wedges located in the openings and contacting with the cords whereby the location of the buoys may be adjusted with reference to the trap, means for attaching or detaching the heart, tunnel and pot, means for towing the trap and for maintaining the sides of the heart in approximately spaced vertical planes while in operative position.

1,293,908. QUICK-ACTING HIGH-PRESSURE CONNECTION. Walter J. Rudolph, Chicago, Ill., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 24, 1920. Serial No. 353,796. 6 Claims. (Cl. 284—18.)



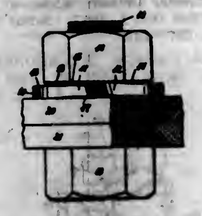
2. In quick acting high pressure connections, the combination with a nipple having a square head and a shank portion with a passage therethrough, having a valve seat in the outer end of the passage, a valve coöperating therewith, and a spring closing it, of a coupling head having a square nipple receiving aperture, an elastic packing member in said coupling head having an aperture adapted to register with the valve, and a locking seat member having four angular recesses registering with the angles of the aperture and four intermediate angular recesses with which the corners of the head register when it has been introduced and turned end into which it is forced by the elastic packing member.

1,293,909. CUSHION-TIRE. Dennet Sanderson, Peoria, Ill. Filed May 14, 1919. Serial No. 303,978. 1 Claim. (Cl. 152—32.)



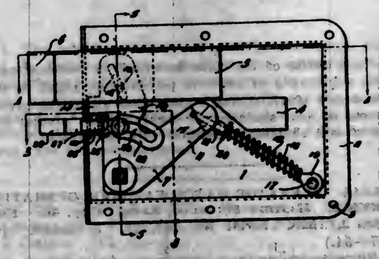
A tire comprising a shoe having a filling consisting of an annular series of spaced resilient spheres touching the shoe at their outermost peripheral portions, and an annular series of alternating resilient blocks, disposed against the inner surface of the shoe and having their ends provided with spherical-sectional concavities in which the spheres are fitted, said blocks extending toward the axis of the shoe well beyond the centers of the spheres and holding the spheres from mutual contact, both annular series being concentric with the shoe.

1,293,910. LOCK-WASHER. Carl Schommert, Newark, N. J. Filed Oct. 25, 1920. Serial No. 419,162. 4 Claims. (Cl. 151—36.)



1. A split lock washer having at each of its ends, a plurality of teeth located at different distances from the center of the washer, all the teeth of one of said ends being bent in the same direction, and all the teeth of the other end being bent in the opposite direction.

1,293,911. AUTOMOBILE-DOOR LATCH. Lawrence A. Schumaker, Michigan City, Ind. Filed Nov. 19, 1920. Serial No. 425,149. 3 Claims. (Cl. 292—335.)



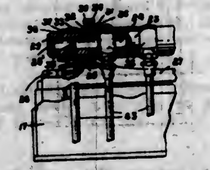
2. In combination, a casing, a latch bolt slidable therein, a bell crank rotatably mounted in the casing, one arm of the bell crank lever provided with a slot, a pin on the latch bolt adapted to ride in the slot, the other arm of the bell crank lever provided with a shoulder having a slot extended therethrough, a rod pivotally carried in the casing so that one end will extend through the slot in the shoulder, and a spring disposed on the rod so as to hold the latch in a retracted or extended position as described and a trigger mechanism for slightly moving the bell crank lever so as to shunt the latch bolt in an extended position.

1,293,912. FIRING MECHANISM. Elbert H. Searls, Bridgeport, Conn. Original application filed July 22, 1918, Serial No. 245,981. Divided and this application filed May 21, 1919. Serial No. 301,085. 12 Claims. (Cl. 42—3.)



1. In a fire-arm, a frame having a longitudinal slide track, a breech slide reciprocating on said slide track, a striker moving longitudinally of said breech slide, and a sear having a bearing in the frame in which it slides endwise into and out of coaction with said striker; said sear and its slide bearing extending substantially laterally from the point of coaction with the striker to a position beneath the slide track.

1,293,913. HYDROCARBON-MOTOR. Charles R. Short, Detroit, Mich., assignor to General Motors Company, Detroit, Mich., a Corporation of New Jersey. Filed Apr. 6, 1917. Serial No. 160,129. 13 Claims. (Cl. 64—27.)

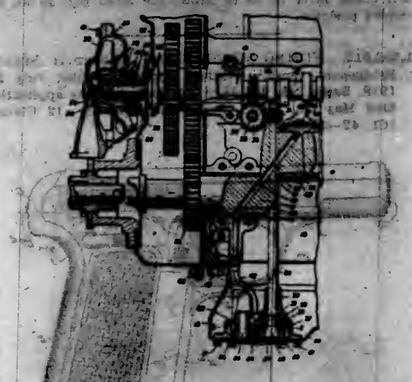


1. In combination a standard or support, a channeled shaft mounted therein, and forming a chamber for lubricant, a member rotatable on the shaft, said shaft and standard having registering ports, and a hollow pin inserted in the port in the standard and pressing on the shaft around the port therein to prevent the shaft from turning, and a removable plug for the hollow pin, whereby the shaft may be filled through the hollow pin.

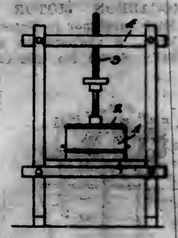
1,293,914. HYDROCARBON-MOTOR. Charles R. Short, Detroit, Mich., assignor to General Motors Company, Detroit, Mich., a Corporation of New Jersey. Filed June 11, 1917. Serial No. 174,170. 9 Claims. (Cl. 123—175.)

9. In combination in an internal combustion engine, a liquid impelling pump having a casing provided with a bear-

ing; a rotating liquid impelling element carried within said casing and having a hollow tubular sleeve supported in said bearing; a driving shaft extending into said sleeve and having a friction surface in engagement with a co-operating friction surface provided within said sleeve; and a spring located within said sleeve and acting to force said friction surfaces into engagement with one another to thereby secure the driving of said rotating element or impeller from said driving shaft, the adjustment of the parts being such that said friction surfaces may slip to thereby interrupt the driving action of the driving shaft if and when a reduction of temperature brings about a change in the condition of the liquid operated upon of such a character that the pump can no longer cause said liquid to flow.



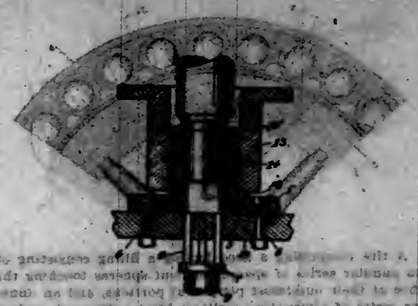
1,393,915. PROCESS OF FORMING BLOCKS OF CHEESE. NICHOLAS SIMON, Appleton, Wis. Filed Nov. 3, 1919. Serial No. 335,353. 1 Claim. (Cl. 31—68.)



The process of preparing blocks of cheese of standard unitary weight, which consists in forming and partly curing a mass of cheese of definite size, then cutting this mass into a number of blocks of substantially equal size, then adjusting, if necessary, the weight of said blocks to the predetermined standard by adding or subtracting, as required, pieces of partly cured cheese, and finally completing the cure of such blocks to produce a rind completely inclosing the same.

1,393,916. DIES FOR DRAWING AND UPSETTING METAL FORMS. WILLIAM B. SMITH, Norwood, Ohio, assignor to The Cocoaum-Victor Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Dec. 5, 1918. Serial No. 265,534. 8 Claims. (Cl. 78—82.)

1. A means for forming a thickened portion on a hollow sheet metal form, which comprises a divided die of the shape of the finished article and provided with a recess for the reception of the sheet metal, the parts thereof having a small normal separability, means for locking the



parts of the divided die together firmly, to prevent their separation or separation, and a plunger shaped to fit the hollow form and to upset the metal into the recess.

1,393,917. AIR-FLOW CONTROLLING MECHANISM FOR INTERNAL-COMBUSTION-ENGINE RADIATORS. LYLE K. SMELL, Detroit, Mich., assignor to Cadillac Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 1, 1917. Serial No. 194,262. 9 Claims. (Cl. 257—132.)

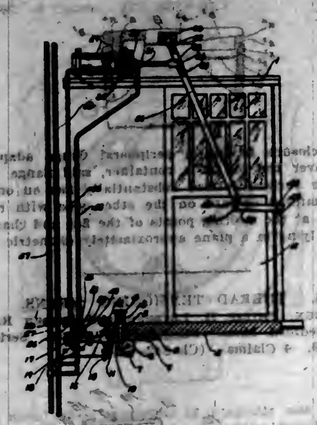


2. In a device of the class described, in combination, a frame, a plurality of shutters pivotally arranged in said frame and a single spring acting upon all of the pivotal supports of said shutters for retaining the pivotal supports of said shutters in contact with said frame.

1,393,918. ELEVATOR-HATCHWAY-DOOR-OPERATING DEVICE. MATHEW SPINELLO, Kansas City, Mo. Filed Mar. 2, 1920. Serial No. 362,731. 3 Claims. (Cl. 187—54.)

2. In a hatchway door operating mechanism, an air operated motor for opening and closing a door, a valve mechanism for effecting reversal of the motor, said mechanism including a valve, a spring-actuated lever con-

nected to the valve, a segmental rack on said valve, a sliding rack member engaging the segmental rack, a



movable elevator cage, and a foot pedal actuated bolt for moving the sliding rack in one direction to oppose the spring and thereby reverse the valve.

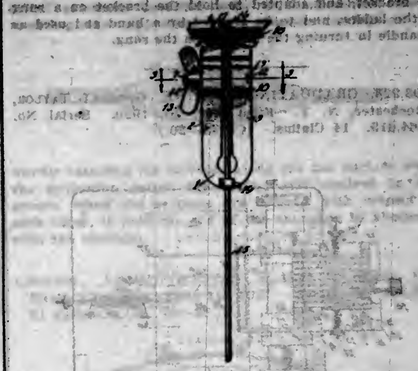
1,393,919. PHONOGRAPH. MORRIS J. STONE, St. Louis, Mo. Filed Sept. 29, 1920. Serial No. 413,558. 4 Claims. (Cl. 240—2.)



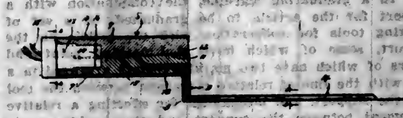
1. The combination with a phonograph-cabinet, including its sound-conveying chamber, the cabinet having a compartment adapted to contain records, of an electric lamp positioned upon the cabinet adjacent the compartment, and a panel arranged within the sound-conveying chamber and adjacent the lamp to reflect light from the lamp into the compartment.

1,393,920. NIPPLE-GRIP. WILLIAM P. STRICKLAND, Chicago, Ill. Filed Nov. 20, 1920. Serial No. 425,512. 5 Claims. (Cl. 81—3.)

1. A device of the character described comprising a body portion having substantially parallel arms formed to provide jaws at the forward ends thereof and having a hook at the rearward end thereof positioned to receive a portion of the work disposed between said jaws, and means for adjusting said jaws relative each other to grip work of varying sizes placed therebetween and for maintaining said jaws in adjusted position.

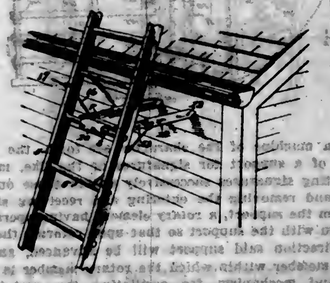


1,393,921. ELECTRICAL UNCAPPING-KNIFE. HENRY C. SWANN, Spokane, Wash., assignor to G. B. Lewis Company, Watertown, Wis. Filed May 11, 1920. Serial No. 380,526. 2 Claims. (Cl. 219—21.)



1. In a tool of the class described, a cutting blade, a heating element carried by the blade, a hollow shank extending from the cutting blade, a lateral attaching plate on the shank, a housing covering said heating element and formed integral with said attaching plate, a longitudinally split handle forming a pair of handle blocks, one end of the handle having a plug socket, the other end of the handle having said attaching plate disposed between the blocks and secured to one of them, current conducting wires extending from the heating element through the hollow shank and one of the handle blocks, contact members disposed between the blocks and having the wires connected therewith, said contact members being extended into the socket, and means for retaining the blocks together.

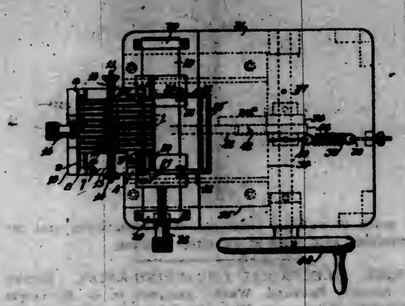
1,393,922. LADDER-SUPPORT. EDWIN N. TAYLOR, Cedar Rapids, Iowa. Filed Jan. 16, 1920. Serial No. 351,962. 2 Claims. (Cl. 223—60.)



1. A ladder support, comprising a stirrup-shaped bracket, the legs thereof being adapted to rest against a building

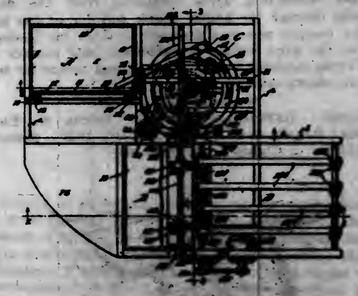
and hold the ladder out therefrom, and a transversely disposed, elongated stirrup attached to the cross-bar of the bracket, and adapted to hold the bracket on a rung of the ladder, and to be grasped by a hand and used as a handle in turning the bracket on the rung.

1,393,923. GRADUATING-MACHINE. Gideon L. Taylor, Rochester, N. Y. Filed Mar. 10, 1920. Serial No. 364,619. 14 Claims. (Cl. 33—20.)



1. In a graduating machine, the combination with a support for the article to be graduated, of a set of marking tools for coöperation with the article on the support, some of which have one marking point and others of which have two marking points arranged in a line with the line of relative movement between the tool and the support, and mechanism for effecting a relative movement between the support and the marking tools to cause the tools to make marks on the article on the support.

1,393,924. SIGNATURE-COLLECTING MECHANISM. Joseph C. Tressrath, Lakewood, Ohio, assignor of one-third to William D. Graff, Lakewood, Ohio. Filed Nov. 9, 1918. Serial No. 261,865. 18 Claims. (Cl. 270—55.)



1. In a machine of the character set forth, the combination of a support for signatures or the like, means for inserting signatures successively within those on the support and removing the entering and receiving signatures from the support, a rotary element having operative connection with the support so that upon rotation thereof in one direction said support will be advanced, an oscillatory member within which the rotary member is sustained, and mechanism for oscillating the sustaining member and imparting intermittent rotation to the rotary element.

1,393,925. CLOSURE. Henry E. Townsend, Brooklyn, N. Y. Filed Dec. 12, 1919. Serial No. 344,895. 8 Claims. (Cl. 215—47.)



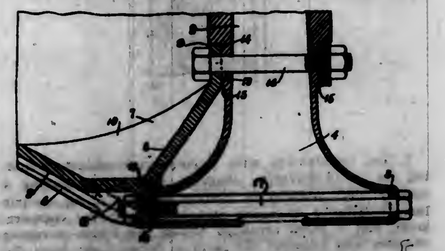
1. A closure having a peripheral flange adapted to extend over the top of a container, said flange having its under surface formed substantially flat on one side and chamfered upward on the other side with rocking fulcrums at the meeting points of the flat and chamfered surfaces lying in a plane approximately diametric to the closure.

1,393,926. THREAD-TENSIONING MEANS. Louis Veillieux, Philip H. Leveque, and Joseph Barnes, New Bedford, Mass. Filed Sept. 30, 1920. Serial No. 413,709. 4 Claims. (Cl. 242—149.)



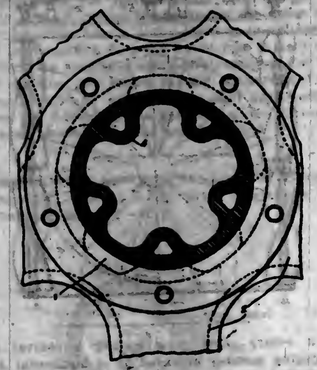
3. A thread tensioning device comprising a bracket including means for supporting the bobbin and a head over which the thread passes, the latter being provided with a thread-guide, a weighted arm pivotally mounted on said head having a portion extending transversely across the latter, and a friction shoe pivotally mounted on said transverse portion of the arm, a piece of resilient metal secured at one of its ends to the shoe, being spaced from the latter and independently movable with respect thereto.

1,393,927. TRACTOR-WHEEL. George Walters, Dayton, Ohio, assignor to The Dayton Steel Foundry Company, Dayton, Ohio, a Corporation of Ohio. Filed Oct. 30, 1919. Serial No. 334,450. 1 Claim. (Cl. 301—40.)



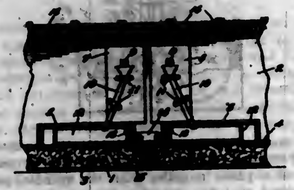
The combination with a metal wheel comprising a main tread arranged parallel to the axis of the wheel and hollow spokes having oppositely directed curves extending substantially to the edges of the main tread, of a supplemental tread member secured to the wheel inclined inwardly of the main tread and adapted to coöperate with said tread and wheel when the wheel is functioning over soft ground, each spoke having a lateral spoke extension extending outwardly in a wide curve and merging with and supporting the supplemental tread.

1,393,928. METAL WHEEL. Charles Walters and Walter W. Ellwood, Dayton, Ohio, assignors to The Dayton Steel Foundry Company, Dayton, Ohio, a Corporation of Ohio. Filed Feb. 25, 1920. Serial No. 361,198. 4 Claims. (Cl. 301—65.)



1. A metal wheel consisting of integrally cast hub and spokes, hollow-cast arches of reinforcing metal formed within the hub and adapted to strengthen said hub, and a separate rim adapted to be secured to the outer free ends of said spokes.

1,393,929. REFRIGERATOR. Joseph A. Weis, Memphis, Tenn. Filed Apr. 26, 1921. Serial No. 464,493. 3 Claims. (Cl. 62—89.)



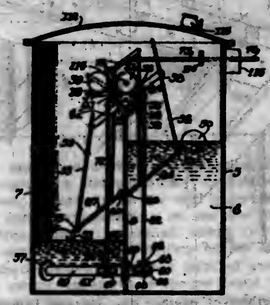
1. In a refrigerator the combination of a receptacle; a vent leading from the interior to the exterior of said receptacle; upwardly opening closures in the top of said receptacle; a readily removable open container adapted to hold ice and salt mounted within said receptacle with its open end adjacent said closures; an outlet near the top of said container for the drip water; readily removable means for supporting said container out of contact with the side and bottom walls of said receptacle, whereby a free flow of air is permitted on all sides of said container; a readily removable drip water receiving pan within said receptacle adapted to receive the drip water from said outlet; a drain leading from said outlet to said pan; and connections between said pan and the exterior of said receptacle adapted to convey said drip water from said pan, substantially as described.

1,393,930. GRATE-SHAKER BAR. Elijah K. Wolfe, Paducah, Ky. Filed Aug. 30, 1919. Serial No. 320,896. 1 Claim. (Cl. 287—119.)

In a device of the class described, a shaker bar section, and a grate bar section, the sections being provided at their meeting ends with broadened heads, the head of one section having a frusto-conical projection defining a shoulder at the end of said head, the projection having a flat longitudinal surface and being provided with a transverse groove one side wall of which is formed by the shoulder, the head of the other section having a cylindrical extension provided with a frusto-conical recess receiving the projection, the extension having an inwardly extended lug movable along the flat surface when the projection enters the recess, and received in the groove, when the sections are rotated with respect to each other, to hold the end of the extension in abutment with the shoulder.

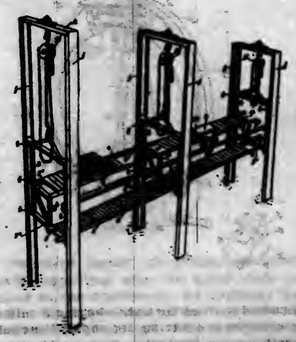


1,393,931. LIQUID-METER. Harley C. Alden, Oak Park, Ill. Filed Oct. 15, 1917. Serial No. 196,657. 21 Claims. (Cl. 73—38.)



1. A liquid meter comprising a plurality of measuring compartments, means for supplying liquid to and means for conveying liquid from the measuring compartments successively whereby each of the measuring compartments is filled and emptied, means for indicating the rate of flow of liquid through the meter and means actuated by the aggregate amount of liquid in the compartments for operating the indicating means.

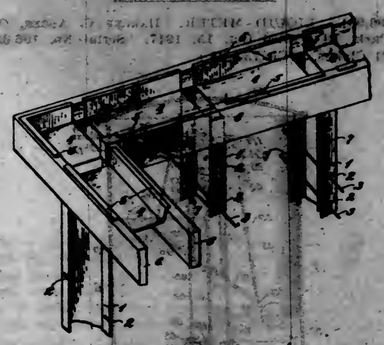
1,393,932. SCAFFOLDING. Achille Anderi, Ixelles, Brussels, Belgium. Filed Sept. 2, 1919. Serial No. 321,105. 2 Claims. (Cl. 304—29.)



1. In a scaffold, a platform for workmen to stand on, a staging for holding building materials, a plurality of rectangular sash-like frames, said platform being seated on the lower bars of said frames and extending from one

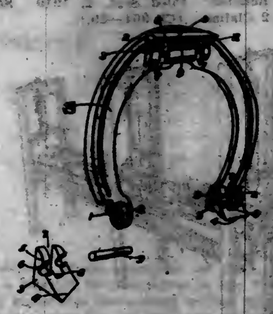
[illegible] side of each frame to and [illegible] said supporting bars and extending from said other upright side of each frame to and [illegible] the middle part of each frame, pairs of [illegible] said frames, the upright sides of each [illegible] with a pair of main [illegible] by a pair of said upright [illegible] lifting means suspended from said cross bars and engaged with said frames.

1,393,833. METHOD OF CONSTRUCTING BUILDING-FRAMES. ARTHUR G. AUSANG, Los Angeles, Calif. Filed Feb. 9, 1920. Serial No. 357,854. 2 Claims. (Cl. 25—131.)

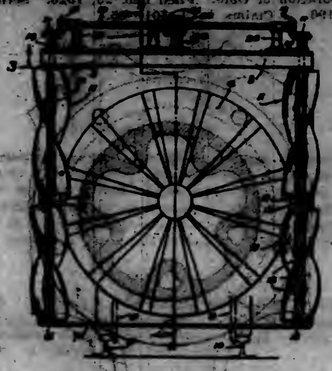


1. The method of casting the vertical individual elements of a building frame, consisting in setting up forms in place and then applying cement under pressure to one side of said forms to produce concrete molding constituting the basic support for the units of a building frame.

1,393,934. CALK-FASTENER. DANIEL BALLENGER, Greeley, Colo., assignor of one-half to J. B. Williams, Greeley, Colo. Filed July 28, 1920. Serial No. 398,328. 2 Claims. (Cl. 168—33.)

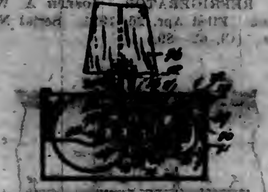


1. The herein-described horseshoe having a calk fastener comprising a screw-eye having its shank inserted in the horseshoe and its eye projecting below said shoe, a calk having a base at right angles to its body and adapted to form a pivot, said eye, the arms of said bifurcated calk mounted in said lower loops, and a pin fitted through said eye and with its ends lying in said grooves.



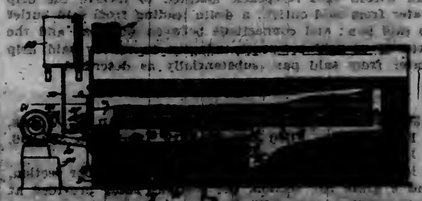
1. In a rotary snow plow having a central rotary snow engaging member mounted on a horizontal axis, a vertical shaft located at each side of and in front of said member, and cutters carried and driven by said shafts.

1,393,935. MOTOR MECHANISM FOR MECHANICAL TOYS. SAMUEL BENGER, New York, N. Y. Filed June 1, 1921. Serial No. 474,097. 10 Claims. (Cl. 74—14.)



1. In a mechanical toy, a longitudinally movable spindle, a disk carried thereby, a reciprocable arm arranged for movement in a plane parallel with the spindle, said arm being arranged to contact with said disk and during its movement to move the spindle longitudinally of its axis, means to prevent rotation of the disk during the longitudinal movement of the spindle, but to permit the disk to be rotated by the rotary movement of the arm after said spindle has reached the end of its longitudinal movement.

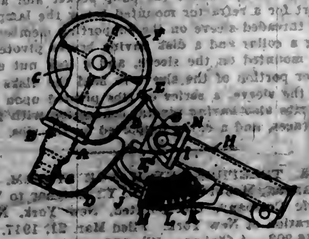
1,393,937. OIL-BURNER. FRANK BRU, Chicago, Ill., assignor of one-fourth to Willard M. McEwen, Chicago, Ill. Filed Feb. 12, 1920. Serial No. 358,008. 16 Claims. (Cl. 158—3.)



1. In a structure of the character described, the combination with a [illegible]

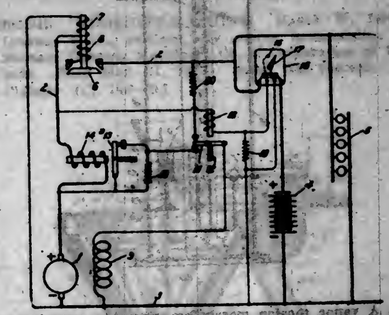
[illegible] member upon which said drum is mounted to rotate, a tension member wound upon said drum and adapted to impart rotation thereto in one direction, a spring adapted to impart rotation to the drum in the direction to rewind the tension member thereon, and coacting braking members carried, respectively, by the attaching member and the drum; said braking members being constructed to develop an increasing resistance to the rotation of the drum imparted by the unwinding of the tension member, and to diminish resistance to the rotation induced by the spring in rewinding the tension member.

1,393,939. OVERHEAD TROLLEY OR COLLECTOR FOR ELECTRIC TRAMWAY AND RAILWAY VEHICLES. THOMAS BLAINEY and DAVID WILLIAMS, Walton, Liverpool, England, assignors of one-half to The Equipment and Engineering Company, London, England. Filed June 8, 1921. Serial No. 475,400. 4 Claims. (Cl. 191—503.)



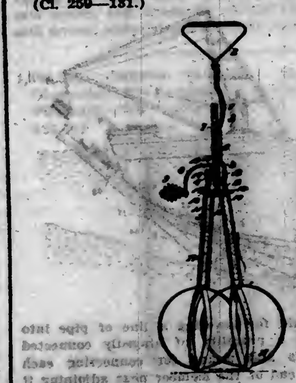
1. An overhead trolley or collector, the combination of a [illegible]

1,393,940. SYSTEM OF ELECTRICAL DISTRIBUTION. WILLIAM L. ELDER, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Feb. 20, 1917. Serial No. 150,996. 4 Claims. (Cl. 171—313.)



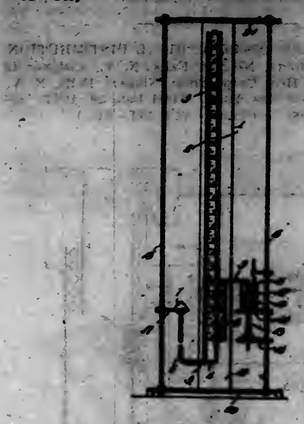
3. In a system of electrical distribution, in combination, a generator, a storage battery, an automatic switch therebetween, a field circuit for said generator normally connected across said generator on one side of said automatic switch, voltage controlled means for connecting said field circuit across said battery on the other side of said automatic switch through a path of greater resistance, and means responsive to the net input to said battery for controlling said voltage controlled means.

1,393,941. BEATER. LAVERN DOSSWELL, New York, N. Y. Filed Jan. 28, 1918. Serial No. 2,963. 3 Claims. (Cl. 259—181.)



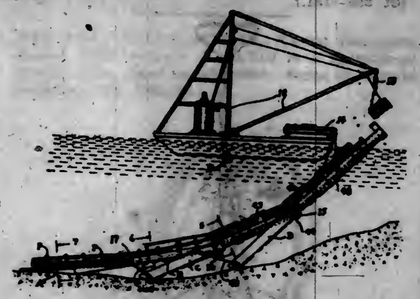
1. An improved beater comprising a framework, a beater blade supporting wire, the upper ends of the said wire secured to the framework, an auxiliary blade supporting wire, the upper ends of the said wire fastened to the framework, the lower ends of the auxiliary blade supporting wire crossing the beater blade supporting wire and a clamp providing means for fastening the two said wires together, beater blades carried by the beater supporting wire, and actuating means carried by the said frame work [illegible]

1,393,843. VAPOR-TENSION APPARATUS. [illegible] Gaines, & Chapman, Salem, Mass., assignors to Chapman & Gaines, Salem, Mass. Filed Oct. 7, 1920. Serial No. 415,976. 9 Claims. (Cl. 73—68.)



1. A vapor tension measuring apparatus comprising a gage tube adapted to contain a quantity of mercury, a receptacle for a sample of liquid to be tested, a connecting tube for placing the upper end of said receptacle in communication with said gage tube at a point spaced below the mercury level of the latter, means for raising and lowering the level of mercury at will, and means for heating the sample.

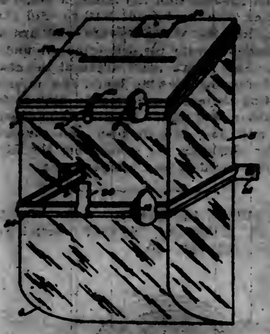
1,393,942. PIPE-LAYING APPARATUS. William L. Chapman, New York, N. Y., assignor to Merritt & Chapman Derrick & Wrecking Company, New York, N. Y., a Corporation of West Virginia. Filed Sept. 13, 1919. Serial No. 323,402. 9 Claims. (Cl. 61—72.)



1. A launching skid for lowering a line of pipe into position, comprising a plurality of hingedly connected overlapping members and means for connecting each member to the rear end of the member next adjoining it forwardly.

1,393,944. MAIL-BOX. William Moses Chapman, Haviland City, Ind. Filed Apr. 9, 1920. Serial No. 372,510. 1 Claim. (Cl. 232—38.)

In a deposit and collection receptacle, a body portion formed of transparent material and having an inclined upper edge, an integral rib formed adjacent to the upper edge thereof, a split collar having a recessed portion adapted to receive the integral rib, a cover for the receptacle having a recessed portion to embrace the latter rib, said securing means having right angled ends to permit the same to be secured to a support, and a supporting arm secured to the securing means.



1,393,945. ELECTROLIER. Le Roy G. Clark, Detroit, Mich. Filed Nov. 5, 1919. Serial No. 335,975. 6 Claims. (Cl. 240—73.)

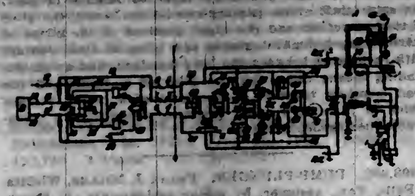


1. An electrolier comprising a supporting member having a screw-threaded lower end, a lamp socket engaging the screw-threaded end of the member, a disk upon the supporting member above the lamp socket and acting as a support for a reflector mounted below the lamp socket, a screw threaded sleeve on the supporting member, a disk carrying a collar and a disk having braces pivoted thereto both mounted on the sleeve, and a lock nut engaging the upper portion of the sleeve to hold the disks in position on the sleeve, a series of ribs pivoted upon the collar, the ribs also having pivotal connection with the ends of the braces, and a cover supported by the ribs.

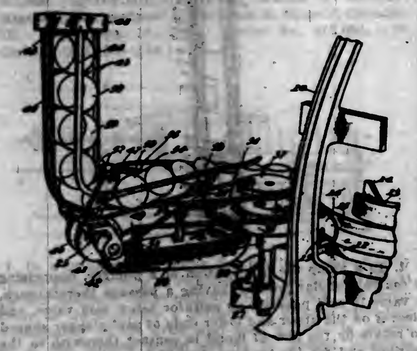
1,393,946. TELEPHONE-EXCHANGE SYSTEM. Henry P. Clausing, Mount Vernon, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 21, 1917. Serial No. 156,206. 4 Claims. (Cl. 179—27.)

1. In a telephone exchange system, the combination with telephone lines, subscribers thereto, an operator's

connecting circuit for interconnecting said lines, a circuit at the calling subscriber including contacts closed in the alternate positions of the rotative test thereof, a signaling device in said circuit, means for preparing an actuating circuit for said device controlled by the called subscriber, and manual means in the operator's connecting circuit for completing said actuating circuit.



1,393,947. CAN FEEDING AND RIGHTING MACHINE. Clarence F. Colbert, Hoopeston, Ill., assignor to Sprague Canning Machinery Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 11, 1918. Serial No. 211,432. 14 Claims. (Cl. 198—1.)



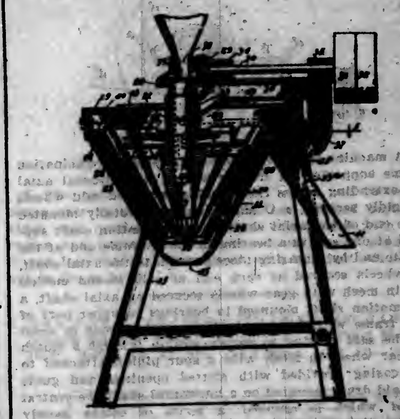
1. A can handling machine for handling sanitary cans comprising a sweep rotatable about a vertical axis, a vertical chute in which the cans are held with their axes in horizontal positions, said sweep having a receding spiral surface, against which the cans are fed, and a shoulder which engages the cans after they have been fed inwardly toward the center of the sweep, along said receding spiral surface, and impositive frictional means for feeding said cans from said vertical chute against said receding surface.

1,393,948. HAIR-CLIPPER. Frank Leo, Milwaukee, Wis., assignor of one-half to Frank Sage, Milwaukee, Wis. Filed May 23, 1921. Serial No. 471,824. 2 Claims. (Cl. 30—1.)



1. A device of the character described, comprising a base member having a ledger blade secured thereto, a housing secured on said base member, a member pivoted to the base member, a train of gears rotatably mounted on said housing, a reciprocating cutter driven by said train and cooperating with the ledger blade, a clutch connecting one of said gears to the pivoted member to be driven when said pivoted member is moved in one direction, a second clutch connecting another of said gears to the pivoted member to be driven when the pivoted member is moved in the opposite direction, whereby said reciprocating member may be constantly driven by the oscillation of said pivot member.

1,393,949. FINISHING-MACHINE. Harry W. Love, Omaha, Nebr., assignor, by mesne assignments, to Sprague Canning Machinery Co., a Corporation of Illinois. Filed Mar. 21, 1917. Serial No. 156,469. 21 Claims. (Cl. 146—9.)



1. In a finishing machine, a conical perforated screen having a vertical axis, means for supplying material to said screen, and means for forcing the material through said screen, comprising a floatably mounted brush.

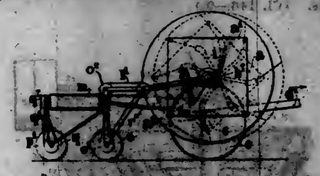
1,393,950. CHEESE-HOLDER. Arthur J. Meneum, Glenbeulah, Wis., assignor of one-half to Henry Blanke, Plymouth, Wis. Filed Nov. 22, 1920. Serial No. 425,741. 3 Claims. (Cl. 31—68.)



1. A device of the character described formed from resilient sheet material comprising a plurality of segments of cylindrical surfaces, all of said segments having their concave sides facing in the same direction with the same radii of curvature, and their axes parallel, and a web integrally connecting the adjacent edges of said cylindrical segments.

2. A device of the character described formed from resilient sheet material comprising a plurality of segments of cylindrical surfaces, all of said segments having

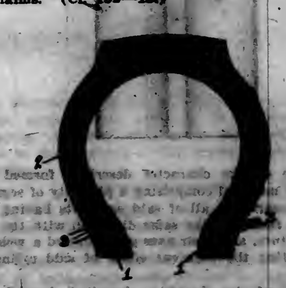
1,393,951. FLAX-PULLING MACHINE. Gerrard Michor, Dromara, Ireland, assignor to The Fibre Corporation Limited, London, England. Filed Apr. 13, 1918. Serial No. 228,462. 3 Claims. (Cl. 56—68.)



1. A machine for pulling flax comprising in combination a frame supported on traction wheels, a horizontal axial shaft extending across the machine on which said wheels are rigidly secured, a U shaped frame pivotally mounted at one end of the axial shaft, a second motion shaft supported at one end in a bearing in the U frame and at the opposite end by a bearing piece parallel to the axial shaft, gear wheels secured at each end of said second motion shaft in mesh with gear wheels secured on axial shaft, a third motion shaft mounted in bearings in upper part of the U frame with a gear wheel mounted thereon in mesh with the said gearing to convey motion through a clutch and gear wheel in mesh with a spur pinion attached to drum casing provided with slotted openings and guide bars, said drum mounted on a horizontal shaft the central part of which is cranked, a series of combs loosely mounted thereon which engage slotted guide bars in drum, whereby the drum and the combs receive a differential movement when rotated substantially as described.

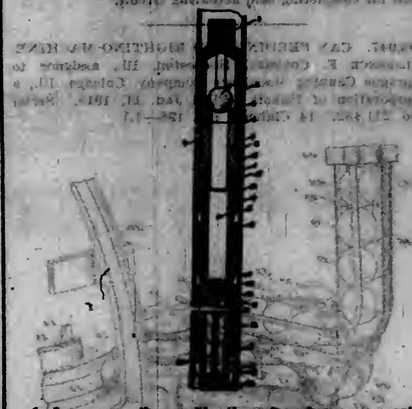
3. In a machine for pulling flax comprising in combination rotating rectangular drums formed in two or more sections upon a rigid cranked shaft secured to the machine frame a series of connecting rods situated at equal angular positions from each other extending radially from a split bearing rotating on the cranked axis, a curved angular extension thereon with a series of taper rods fixed to a bar forming a comb the width of drum, at an angle of 45° with the connecting rods substantially as described.

1,393,952. TIRE-CASING. Charles E. Miller, Anderson, Ind. Filed Mar. 17, 1921. Serial No. 453,025. 4 Claims. (Cl. 152—12.)



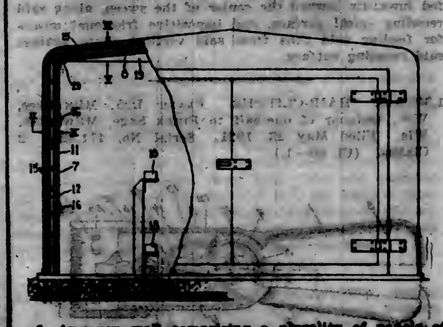
2. A tire casing comprising a body composed of fiber members, tubular bundles of wool, rested only within the other said members, the bundles being arranged with their axes parallel with and at a greater distance from the inner than the outer of the two beads, and a web horizontally connecting the adjacent edges of the outer and inner members.

1,393,953. PUMP-PLUNGER. Frank J. Miller, Wichita Falls, Tex., assignor, by mesne assignments, to Frank Miller Pump Co., Dallas, Tex., a Corporation of Texas. Filed Feb. 14, 1920. Serial No. 358,566. 12 Claims. (Cl. 103—95.)



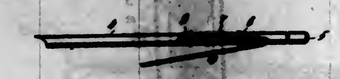
1. In a pump the combination of a plunger, comprising a central tubular member having a passage therethrough, a valve in said passage, an agitater below said valve, and sleeves on the upper and lower ends of said plunger shaped to rotate by the flow of liquid in contact therewith in the manner and for the purpose described.

1,393,954. OVEN-WALL CONSTRUCTION. John A. Miller, Tarrytown, N. Y. Filed Aug. 23, 1919. Serial No. 319,511. 5 Claims. (Cl. 72—68.)



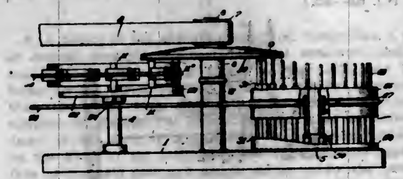
1. An oven wall comprising a plurality of panels of channel form made from sheet metal and the meeting edges of which are turned inward and secured together to thereby provide webs extending from the plane of the panels, a filling of heat non-conducting material located within the channels of said panels and between the ribs formed by the joints between abutting panels; a sheet of metallic lathing having inwardly extending or high ribs arranged at right angles to the ribs of said channels and the extremities of which contact with said filling material to thereby hold the same in place; means for securing said metallic lathing to said panels; and a layer of plastic heat non-conducting material upon and carried by said metallic lathing.

1,393,955. COTTON-STALK PULLER. Thomas H. Monk, Tallahassee, Fla. Filed Sept. 25, 1920. Serial No. 412,790. 1 Claim. (Cl. 254—132.)



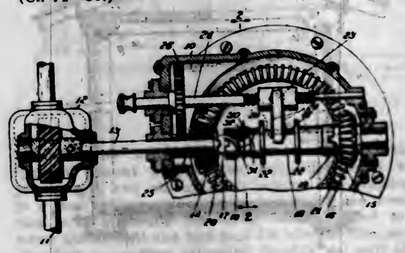
A cotton stalk puller including a handle, a stalk embracing member consisting of a strap, one end of which is countersunk in the handle and detachably connected thereto, the other end of the strap being bent acutely to provide a substantially V-shaped structure for engagement with the stalk.

1,393,956. END-FACE GRINDER. Frank H. Mooney, Hinsdale, Ill., assignor to Clarence E. Barrett, Chicago, Ill. Filed Sept. 18, 1920. Serial No. 411,091. 10 Claims. (Cl. 51—134.)



1. In a grinder, a grinding disk having a downwardly directed abrasive face, a rotating drum having a vertical axis and partially underhanging the said disk, the drum having on its periphery a plurality of grooves extending longitudinally of the drum and each adapted to receive one of the objects which are to be ground, separate clamping means carried by the drum and respectively arranged for retaining the objects in the grooves, single means for actuating each of the clamping means while approaching and passing under the said disk, and means for forcing the objects upwardly against the disk while under the latter.

1,393,957. DRIVING MECHANISM FOR WASHING-MACHINES. William F. Moran, Chicago, Ill., assignor to V. B. M. Company, a Corporation of Illinois. Filed July 23, 1919. Serial No. 312,654. 4 Claims. (Cl. 74—60.)



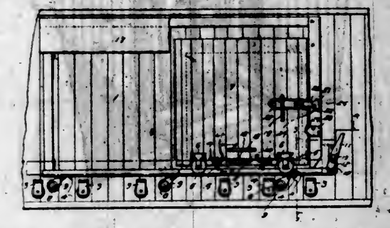
2. In mechanism of the class described, the combination of a driven-shaft, a pair of gears loosely mounted thereon, in spaced relation with each other, a double clutch element slidably mounted on said shaft intermediate of said gears, the clutch element and shaft being caused to rotate together, means adapted to have yielding and positive engagement with the clutch element whereby the clutch element is alternately shifted into clutching engagement with one of said pair of gears, with means mounted on said clutch element and having operative relation with the driven-shaft whereby the clutch element is yieldingly locked in its adjusted positions on said shaft until said first mentioned means is brought into positive operative relation with said clutch element.

1,393,958. NUT-LOCK. Albert J. Ordal, Colton, S. D. Filed Apr. 29, 1919. Serial No. 293,412. 5 Claims. (Cl. 151—13.)



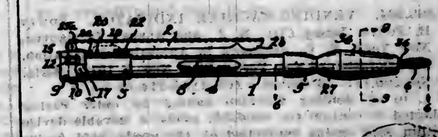
1. The combination with a bolt, and a nut having a recess therein the walls of which are inclined and provided with notches; of means for engagement with said recess and notches in the nut whereby said means is forced into binding engagement with the bolt when the nut is driven home.

1,393,959. CAR-DOOR-OPERATING MECHANISM. Lonnie Thomas Penny, Raleigh, N. C. Filed Mar. 8, 1920. Serial No. 362,960. 11 Claims. (Cl. 20—22.)



1. In combination, a car door, supporting, retaining and locking means therefor, said supporting means comprising rollers, means engaging said rollers for elevating and lowering the supporting means, and a further means whereby the door is prevented from being opened until said supporting means is in an elevated position.

1,393,960. COMBINATION PEN AND BRUSH. William R. Penschuck, St. Paul, Minn. Filed June 10, 1920. Serial No. 387,871. 5 Claims. (Cl. 120—43.)



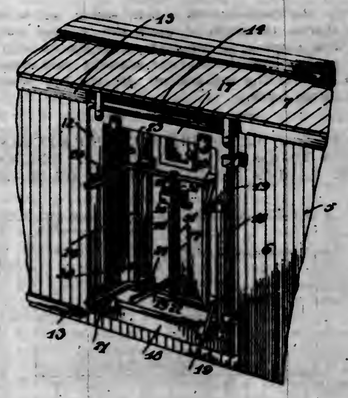
2. In a device of the class described, a cylindrical barrel, a container for liquid within said barrel, a nipple mounted on one end of said barrel, and adapted to

receive a brush or a pen arranged to be inserted in said nipple and means for allowing liquid to flow from said container to said brush or pen, comprising a valve housing mounted in the end of said barrel, a screw in said housing, air passages in said screw and housing, a lever mounted on said barrel adjacent to said housing, a stopper arranged to be actuated by said lever to close said air passages and a spring to hold said valve in closed position.

1,393,961. SEALING COMPOSITION FOR RADIATORS. GEORGE EDWIN PERKINS, Atkinson, Ill., assignor of one-fourth to Edwin Everett and one-fourth to J. W. McCullough, Atkinson, Ill. Filed June 2, 1921. Serial No. 474,387. 2 Claims. (Cl. 134—17.5.)

2. The composition for sealing crevices in radiators containing turpentine resin, guaiac resin and flax seed meal, the flax seed meal being in a greater per cent. than the other ingredients and the guaiac resin in a smaller per cent. than the turpentine resin.

1,393,962. GRAIN-CAR DOOR. WILLIAM PINET, Vonda, Saskatchewan, Canada. Filed Dec. 9, 1920. Serial No. 429,470. 4 Claims. (Cl. 20—24.)



1. The combination in a grain car, of a door, a sliding frame in which the door is mounted, cranks connected to said frame, blocks slidably mounted upon said door, and connected to said cranks, a connection between said cranks and an arm secured to said last mentioned connection, whereby the blocks can be raised and lowered substantially as and for the purposes set forth.

1,393,963. [WITHDRAWN.]

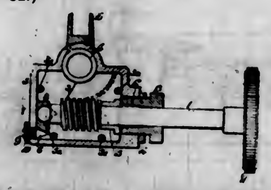
1,393,964. VENDING-MACHINE INDICATOR. EDWIN B. POTTS, Jersey City, N. J., and ALBERT D. GROVER, New York, N. Y., assignors to Autosales Corporation, a Corporation of New York. Filed Nov. 3, 1917. Serial No. 200,177. 6 Claims. (Cl. 116—114.)

1. In a vending machine having an outer casing adapted to contain the vendable goods, a movable device within said casing controlled by the goods, said device being adapted to project out of said casing when the supply of goods is in a certain predetermined condition and to be moved into said casing when the supply of goods is in another predetermined condition, whereby said device acts as an indicator which may readily be



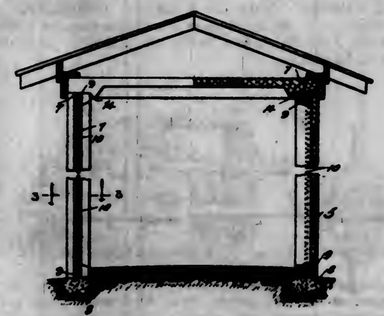
felt from the outside of the machine to ascertain the condition of the supply of goods in the casing.

1,393,965. ADJUSTABLE PIVOT-BEARING. GEORGE HARDIMAN RANSOM, Northfield, Birmingham, England. Filed Dec. 20, 1919. Serial No. 348,165. 1 Claim. (Cl. 64—52.)



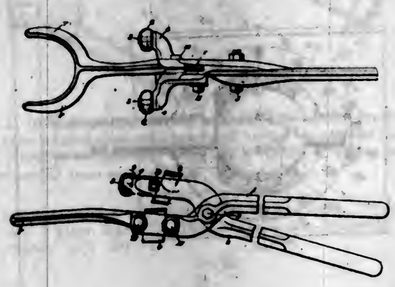
An adjustable pivot bearing for supporting one end of a worm comprising a slide carrying the pivot bearing for the worm, an inclined lower face on said slide and a wedge coacting with said inclined face consisting of a screw having a conical end which engages the inclined face of the wedge whereby longitudinal movement of the screw effects adjustment of the slide and consequent variation in the degree of engagement of said worm with its worm wheel.

1,393,966. CONCRETE BUILDING STRUCTURE. WALLACE CLINTON RICHMAN, Butte, Mont. Filed Feb. 24, 1919. Serial No. 278,643. 5 Claims. (Cl. 72—16.)



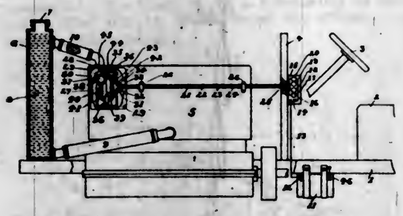
1. In a concrete building structure, a wall formed of concrete boards or slabs vertically disposed in side by side relation, a tie rod common to all of said boards and disposed beneath the lower ends thereof, a similar tie rod common to all of the boards and carried by the upper ends of said boards and vertically disposed tie rods interposed between and inclosed by the proximate edges of adjacent boards, said vertical and horizontal tie rods being interlocked together.

1,393,967. DISK-SHARPENER. PETER RINK, Cresco, Iowa. Filed June 15, 1920. Serial No. 389,072. 11 Claims. (Cl. 76—35.)



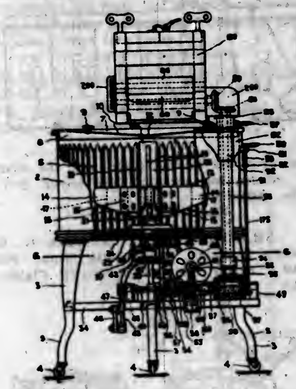
1. A device of the character specified, comprising a pair of crossed pivotally connected handle members, each of the said members being forked at one end, one fork being spaced apart farther from the pivotal connection than the other fork, and said first named fork being adapted to engage the supporting shaft of a series of disks at one face of one of the disks, rollers journaled on the arms of the other fork for engaging the opposite face of the said disk and means supported by the handles between the forks and the pivotal connection for engaging and sharpening the opposite faces of the edge of the disk, said means comprising blades held on the handle members, said blades being adjustable relatively to the faces of the disk.

1,393,968. TEMPERATURE-INDICATOR FOR AUTOMOBILES. HARRY A. RISHEL, Philadelphia, Pa. Filed Feb. 10, 1917. Serial No. 147,910. 1 Claim. (Cl. 177—351.)



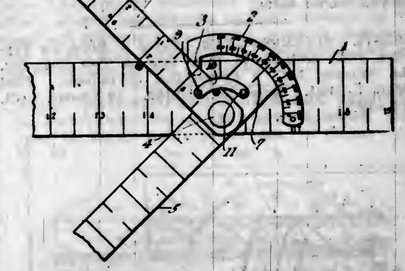
In a device of the kind described which includes a thermal element adapted for application to a water jacket wall and an indicator adapted for application to a dash, transmitting means comprising the combination of a thermally insulating casing applied to the water jacket wall and inclosing the thermal element and electrical connections extending through the wall of the casing and from the element to the indicator and including a source of current, substantially as described.

1,393,969. WASHING-MACHINE. FRANK RITE and JOHN H. BROOK, Toronto, Ontario, Canada, assignors to The Sun Electro Works, Toronto, Canada. Filed Jan. 27, 1920. Serial No. 354,371. 2 Claims. (Cl. 259—107.)



1. In a washing machine, an agitator presenting a plurality of radially disposed blades, each blade being slotted and having its underside inclined upwardly and outwardly.

1,393,970. GEOMETRICAL TOOL. JAMES H. ROBERTS, Charleston, S. C. Filed Jan. 3, 1921. Serial No. 434,613. 3 Claims. (Cl. 33—93.)

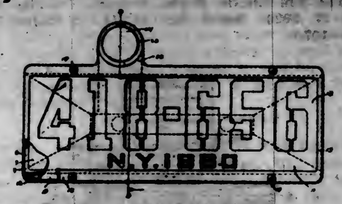


1. A geometrical tool comprising a main arm, a graduated segment secured thereon and having an end stop, pivotally connected arms mounted for angular adjustments upon the main arm, one end of one of said connected arms abutting against and being movable along the under edge of the segment and against the stop, and a brace outside of the working angle formed by the arms for holding the pivotally connected arms normally at a predetermined angle to each other.

1,393,971. DISPLAY DEVICE FOR AUTOMOBILE LICENSE-PLATES. HAROLD E. ROBINSON and RAYMOND M. VAN CLEVE, Lockport, N. Y. Filed Dec. 27, 1920. Serial No. 433,309. 7 Claims. (Cl. 40—132.)

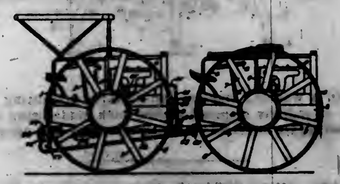
1. A display device characterized by having a one-piece casing forming a reflector and provided with a recess near its outer edge for the reception of a cover glass, a bracket carried by and in interspaced relation with

the casing, a cover for the casing, the cover being formed with a central opening and a depending flange



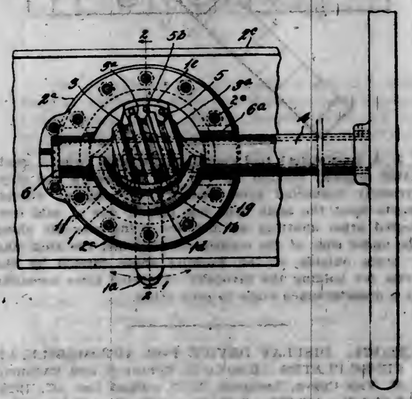
for taking over the license plate and the casing, and fastening means for securing the cover and license plate to the casing.

1,393,972. TRACTOR-TRUCK. ANDREAS G. RONNING and ADOLPH RONNING, Minneapolis, Minn. Filed May 26, 1919. Serial No. 299,802. 21 Claims. (Cl. 180—14.)



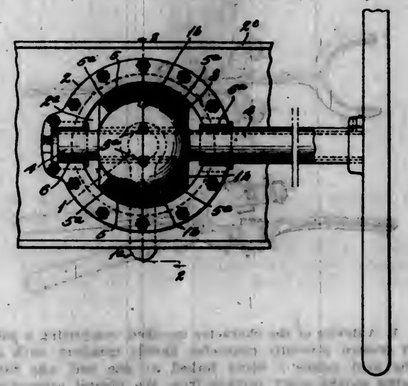
1. A double unit tractor consisting of two tractor units one in front of the other, an engine in each unit, two drive wheels supporting each tractor unit and adapted to be driven by the respective unit engines, a connecting shaft secured to the front unit and slidably mounted in the rear unit, means for equalizing the draft between said two tractor units.

1,393,973. STEERING-GEAR. DAVID E. ROSS, La Fayette, Ind., assignor to Ross Gear & Tool Company, La Fayette, Ind., a Corporation of Indiana. Filed Mar. 7, 1921. Serial No. 450,462. 10 Claims. (Cl. 74—79.)



4. In a steering gear, a rocker shaft having a partispherical head on its inner end adapted to receive a ball; said head having an opening for the entry of the ball at an angle to the axis of the rocker shaft; and a toothed segment on said head opposite a diametrically opposed part of said head; with a spirally toothed ball rotatably fitted in said head and engaging said segment and bearing against the inside of the head opposite said segment; and a steering shaft extending into said head and connected to said ball, substantially as described.

1,393,974. STEERING-GEAR. DAVID E. ROSS, La Fayette, Ind., assignor to Ross Gear & Tool Company, La Fayette, Ind., a Corporation of Indiana. Filed Mar. 7, 1921. Serial No. 450,463. 10 Claims. (Cl. 74—79.)



9. In a steering gear, a rocker shaft having a partispherical head on its inner end, and diametrically opposed spirally grooved segments attached to and within said head; a ball shaped member fitted within the head and having an equatorial series of teeth adapted to engage the spiral grooves in the opposed segments in the head at opposite sides of the ball, and a steering shaft extending through said head and ball and rigidly connected with said ball, whereby rotatorial movement of the steering shaft imparts rocking movement to the rocker shaft.

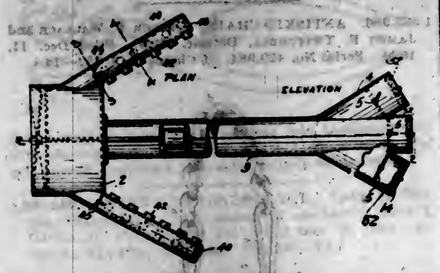
1,393,975. LINING FOR GARMENTS AND ANALOGOUS PURPOSES. FRANK ROWLEY, London, England. Filed Aug. 11, 1919. Serial No. 316,856. 4 Claims. (Cl. 154—46.)



1. A lining for garments and analogous purposes comprising two layers of fabric and a layer of fur from animals of the *Lepus* family between the layers of fabric.

1,393,976. (WITHDRAWN.)

1,393,977. MECHANICAL ATTACHMENT. ANTON EDWARD SAWL, Welby, Colo. Filed Feb. 13, 1919. Serial No. 276,881. 5 Claims. (Cl. 115—12.)



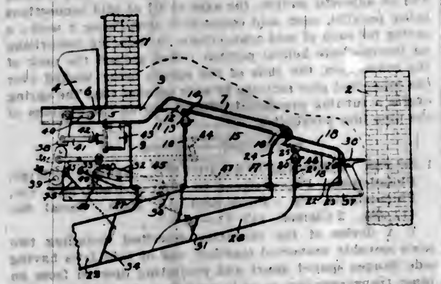
1. In a propelling device, a head, a propeller therein, a tube leading from said head and having an exhaust, and a plurality of exhausts arranged at different angles and projecting from said head.

1,393,978. OIL-CAN. BENJAMIN P. SAUNDERS, Weston, Mo. Filed Apr. 13, 1920. Serial No. 373,643. 1 Claim. (Cl. 221—48.)



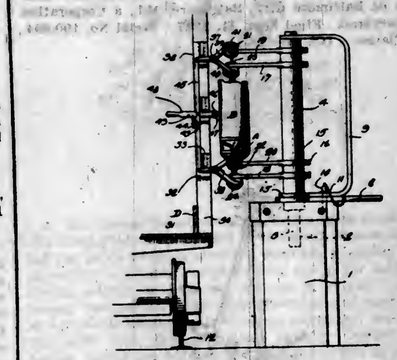
An oil can consisting of a body portion for holding oil, a nozzle communicating with said body portion to conduct oil therefrom, a normally closed valve to prevent the escape of oil through said nozzle should the oil can upset, a stem extending through the nozzle to open the valve, and an enlarged grooved outer terminal on said stem.

1,393,979. STOKER-FURNACE. JOHN S. SKELLY, Monongahela, Pa., assignor to Combustion Engineering Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 16, 1919. Serial No. 330,953. 10 Claims. (Cl. 110—48.)



1. In a stoker furnace, the combination of two separable series of fuel supporting grate bars arranged on different levels and longitudinally displaced with reference to each other so that the upper series overlaps the other and discharges thereon, adjacent bars in each series having air passages between them, means for reciprocating bars in the upper series, the bars of both series being tubular and provided with inlet and outlet ports, means for supplying air to the inlet ports, and air chambers for receiving air from the outlet ports and discharging said air upwardly through said passages between the adjacent bars of said two series.

1,393,980. MAIL-BAG EXCHANGE. CHARLES F. SMITH, New York, N. Y. Filed Sept. 12, 1918, Serial No. 253,765. Renewed Mar. 12, 1921. Serial No. 451,843. 5 Claims. (Cl. 258—17.)



1. In a mail bag handling device, the combination with keepers adapted to be attached to the sides of the door opening in a mail car, three cross bars, and adjustable connections between their extremities and the receptive pairs of keepers, the mid-lengths of said cross bars being offset; of mail bag supports rotatably mounted on the upper and lower bars and having levers at their inner ends, a hand lever mounted on the intermediate bar, and link connections between all said levers.

1,393,981. STEERING MECHANISM FOR VEHICLES. WILFRID LAWSON SPENCE, Edinburgh, Scotland. Filed June 16, 1921. Serial No. 477,994. 5 Claims. (Cl. 74—79.)



1. In steering mechanism for vehicles, the combination of a rigid member, a member to be moved relatively to the rigid member, a pair of spring blades attached to said member to be moved, operating mechanism carried by said rigid member and adapted to slide said spring blades relatively in opposite directions, and guides for said operating mechanism, substantially as set forth.

1,393,982. ELECTRIC FUSE. ARCHIE W. STEELE, Bloomfield, N. J., assignor to Wilford J. Hawkins, Montclair, N. J. Filed Sept. 24, 1919. Serial No. 325,891. 5 Claims. (Cl. 200—132.)

1. An electric fuse comprising, a hollow body of insulating material, provided at one end with a cap having a slot therein, a fuse element support within said body and carrying blades, one of which is adapted to project through said slot in separable relation to said cap, a cap

permanently secured to the other blade and adapted to embrace and frictionally engage the other end of said



body and means for detachably securing a fuse element in electrical contact with said blades.

1,393,983. CAMERA-SHUTTER. JOHN SWINSCOE, Baltimore, Md., assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed Sept. 11, 1917. Serial No. 190,694. 22 Claims. (Cl. 95—58.)

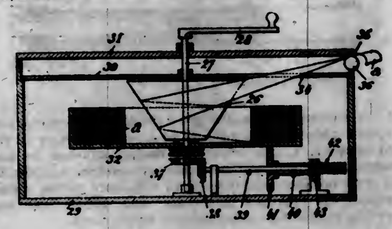


1. In combination, a photographic lens shutter, and gravity operated means for operating said shutter and to place the same in a position for subsequent operation.

1,393,984. EXPLOSIVE AND PROCESS FOR MANUFACTURING IT. CASTEN IVAN TIGELL, Stockholm, Sweden. Filed July 23, 1918. Serial No. 246,302. 5 Claims. (Cl. 52—6.)

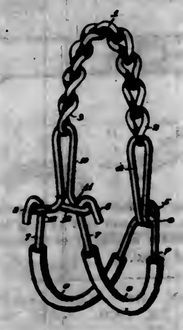
1. A safety explosive of the class described containing nitro-hydrocarbons, oxygen yielding substances, combustible carbonaceous substances, aluminium-powder and ferro-silicon containing 90 to 95% of silicon.

1,393,985. UNWINDING APPARATUS. ANDRÉ JOSEPH DENIS ANTOINE VOULGRE, Bayonne, France. Filed Nov. 9, 1918. Serial No. 261,808. 2 Claims. (Cl. 88—18.7.)



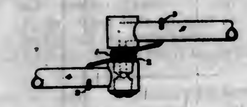
1. An unwinding apparatus comprising in combination: a cylindrical receptacle having an outer rim and open at one side, means for rotatably supporting said receptacle, a coaxially arranged conical drum having its small end projecting into the space within the outer rim, disconnectible operating means for rotating said conical drum at a constant speed, operating means adapted to drive the receptacle at a varying speed, means for receiving the article to be unwound as delivered by the drum and leaving the same free to move along a line substantially normal to the axis of the drum and means for attaching one end of the article to the inside face of the said outer rim.

1,393,986. ANTISKID-CHAIN. GEORGE T. WALLACE and JAMES E. TWITCHELL, Detroit, Mich. Filed Dec. 11, 1920. Serial No. 429,984. 1 Claim. (Cl. 152—14.)



The combination of a single anti-skid chain, felly engaging U-shaped arms adapted to extend from the inner side of a felly to the outer side thereof and have the outer ends of said arms sprung toward each other, said chain having the inner end thereof held by said arms, and a fastener constituting the sole connecting means between the outer end of said chain and the outer ends of said arms, said fastener comprising a link having opposed lateral hook members into which the outer ends of said arms may be sprung by laterally shifting the outer ends of said arms toward each other, said hook members being in proximity to each other and maintaining said link in engagement with said chain.

1,393,987. GAS SERVICE-PIPE. JOHN W. WAMPLER, Wichita, Kans. Filed Feb. 21, 1920. Serial No. 360,540. 1 Claim. (Cl. 285—102.)

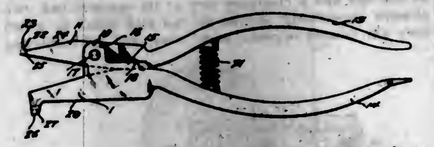


A gas service pipe for connection with gas burning appliances, said pipe comprising a plurality of short straight pipe sections, a pivotal connection between each section and an adjacent section, the axes of all of said connections being parallel, each said connection comprising a neck; a spring for each of said connections, each spring comprising an intermediate helical portion coiled around the neck of the connection, the ends of the spring being hooked over the connected pipe sections in such manner that the spring exerts a turning pressure tending to bring the sections of the pipe into parallelism.

1,393,988. HOSE-BANDING DEVICE. REUBEN D. WIRT, Philadelphia, Pa., assignor to Wirt & Knox Mfg. Co., Philadelphia, Pa. Filed Sept. 18, 1920. Serial No. 411,283. 2 Claims. (Cl. 81—15.)

1. A device of the character described including two jaws movably connected together, one of said jaws having side flanges spaced apart and projecting upward from an inner transverse face so as to provide a channel into which a portion of the other jaw can move in a parallel plane, the distances between the side surfaces of said jaw portion and the inner surfaces of said flanges when said jaw portion is in the channel being substantially equal to the thickness of a wire to be bent so that when the wire is

inserted between said jaws across said channel and said jaws are actuated to move the second mentioned jaw into



the channel, said wire will be bent into U-shape form; with the leg portions thereof adjacent opposite sides of said second mentioned jaw, substantially as described.

1,393,989. INDENT HARDNESS-GAGE. CAMP M. ZUBLIN, Philadelphia, Pa., assignor of one-half to John J. Davies, Jr., Philadelphia, Pa. Filed Mar. 15, 1921. Serial No. 452,423. 4 Claims. (Cl. 265—12.)



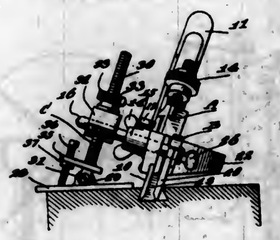
1. In a device of the character stated, a body, a threaded adjusting screw mounted therein, a plunger chamber formed on said body in alinement with said screw, a plunger in said chamber having a ball-pointed end, adapted to pass through an opening in the bottom of said plunger chamber, a rod for said plunger, an upper closure for said chamber through which said rod passes, a spring intermediate said closure and plunger, a shoulder on said plunger rod, and a locking device adapted to coact with said shoulder, and temporarily retain said plunger in its raised position with said spring compressed.

1,393,990. BELT-ADJUSTING MEANS. HENRY FORD, Detroit, Mich. Filed Apr. 15, 1918. Serial No. 228,591. 2 Claims. (Cl. 64—53.)



2. The combination with a bracket and a stepped shaft extending therethrough, of tightening means comprising eccentric washers set in said bracket with one of said washers between a stepped portion of said shaft and the bracket and adapted for adjusting said shaft relative thereto, and means adapted to move said shaft and said eccentric washers so that said washers are bound against said bracket.

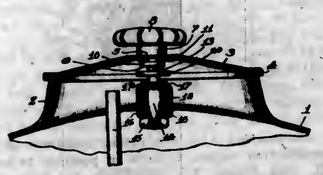
1,393,991. PLANE. JOHN M. DODENHOF, St. Louis, Mo. Filed Sept. 24, 1920. Serial No. 412,431. 5 Claims. (Cl. 145—10.)



4. In a plane, the combination with a main stock, a pair of sliding guide arms carried by the stock, means for holding the guide arms in adjusted position, a sliding section adjustably carried by the guide arm, means for holding the sliding section in adjusted position, a cutting blade arranged intermediate the sliding section and main stock, of a guide including a pair of blocks adjustably mounted on the guide arm, threaded stems slidably carried by the blocks, means for holding the threaded stems in adjusted position in relation to the blocks, a substantially rectangular shaped flat plate pivotally carried by the lower ends of the stems, and means for holding the plate in adjusted position in relation to the stems.

5. As a new article of manufacture, a guide for bench planes comprising a flat plate, a pair of pivoted stems carried by the upper surface of the plate, blocks adjustably carried by the stems, means for holding the stems and the blocks in adjusted relation to each other, laterally projecting plates rigidly carried by the stems adjacent to their lower ends, adjustable set screws carried by the laterally projecting plates arranged to engage the upper surface of the first mentioned plate, the blocks having transversely extending bores therein, and set screws carried by the blocks arranged to extend into said bores.

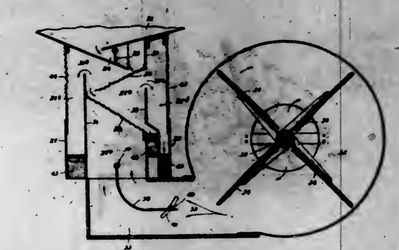
1,393,992. RADIATOR-FILLER CAP. EUGENE J. FARKAS, Detroit, Mich., assignor to Ford Motor Company, Dearborn, Mich., a Corporation of Delaware. Filed Dec. 4, 1920. Serial No. 428,229. 7 Claims. (Cl. 220—25.)



1. The combination of a tank having a filling connection, a cap, a connecting member carried by said cap, and having a configuration relative to said tank filling connection to prevent rotation of said connecting member, a hand piece extending through said cap into screwthreaded engagement with said connecting member and adapted to cooperate with said connecting member in clamping said cap on said filling connection, and means at the inner end of said connecting member retaining said member in the filling connection of said tank so that said cap may be tilted to one side of said tank.

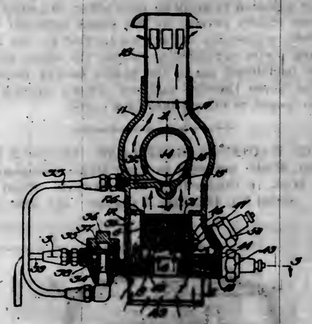
7. Means for connecting a cap to a radiator comprising, in combination with a radiator cap, a member having the inner end slidable in the radiator and its outer end detachably connected to the cap, and means to prevent said member from falling into the radiator when released by said cap.

1,393,993. GRAIN-SEPARATOR. ADOLPH G. PERRING, Minneapolis, Minn. Filed Feb. 2, 1920. Serial No. 355,608. 10 Claims. (Cl. 130—17.)



10. A grain separator having in combination a housing having screened openings in the upper portions of the sides thereof, partitions in said housings adjacent the sides thereof and having openings therethrough adjacent to said screen openings, oppositely inclined screens extending from and between said partitions, and means for forcing a current of air upwardly between said partitions through the said openings therein and out of said screen openings.

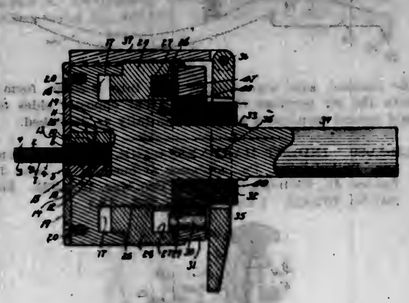
1,393,994. STOVE FOR INTAKE-MANIFOLDS OF INTERNAL-COMBUSTION ENGINES. STEPHEN IVAN FERETE, Detroit, Mich., assignor to Essex Motors, Detroit, Mich., a Corporation of Michigan. Filed Oct. 5, 1920. Serial No. 414,921. 14 Claims. (Cl. 123—152.)



1. In combination with the intake manifold of an internal combustion engine, a stove in position to heat the manifold, and means for supplying an automatically measured quantity of liquid fuel to the stove.

1,393,995. COLLAPSING TAP. JAMES FRAZER, Wilmington, Del., assignor to The Geometric Tool Co., New Haven, Conn., a Corporation. Filed Jan. 17, 1916. Serial No. 72,579. 13 Claims. (Cl. 10—144.)

1. In a collapsing tap, the combination with a head having a slot extending diametrically across its outer face, of two slides located within the said slot in which they ride upon each other, and each of which has a cam-slot at one end and a clearance slot at its opposite end, two chasers respectively carried by the said slides in which they are located opposite each other, and an oscillating



cam-ring encircling the said head and having two oppositely located segmental cams respectively passing through the cam-slot of one slide and the clearance-slot of the other slide, whereby the oscillation of the said ring, the slides, and hence the chasers, are moved in right lines in opposite directions.

1,393,996. REMOVABLE CONSTRUCTION. CHARLES FERRONNIERE, Lyon, France. Filed July 7, 1920. Serial No. 394,446. 2 Claims. (Cl. 189—84.)



1. Rigid elements for building removable constructions comprising a V shaped or angular piece, outwardly directed projections at one of the free ends of said elements, an eye provided on said projection for receiving the bolt connecting said element with the adjacent one, an eye provided on the apex of the V shaped element for receiving a connecting bolt, the algebraic sum of the distances between the center of both said eyes and the axis of the corresponding arm being equal or somewhat larger than the width of said arm.

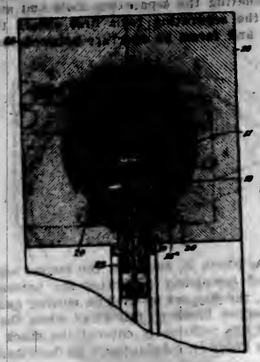
1,393,997. PROCESS OF PREPARING CEREAL FOOD. JACOB FRIEDMAN, New York, N. Y. Filed Nov. 19, 1919. Serial No. 339,013. 4 Claims. (Cl. 99—10.)

1. A process of preparing cereal which consists in subjecting the cereal in dry form to a cooking heat and pressure in an entirely closed vessel.

1,393,998. MANUFACTURE OF TIRES. WILLIAM H. FULTON, Irvington, N. J. Filed Nov. 20, 1919. Serial No. 339,454. 7 Claims. (Cl. 18—56.)

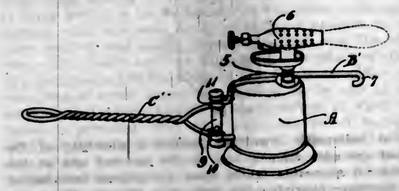
1. In the manufacture of tires, the improvement which consists in forming the tire on an inner core, adhesively sealing the base of the tire to the core, inclosing the tire

with the core inside of it in a suitable mold, and forcing air under pressure between the tire and the core to



press the tire outwardly against the mold and maintain the tire under tension during vulcanization.

1,393,999. ATTACHMENT FOR BLOWTORCHES. THOMAS W. GARNETT, Topeka, Kans. Filed Nov. 10, 1920. Serial No. 423,017. 4 Claims. (Cl. 158—33.)



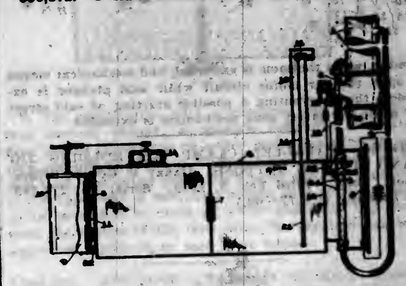
1. An attachment for a blow-torch, comprising a member having means at one end whereby to attach said member to the burner support of said torch, said member being adapted to extend laterally from said torch in alinement with the flame from said burner and to engage with its free end the object to be heated to limit the approach of said burner to said object, said free end being rounded to prevent scratching of said object.

1,394,000. VEHICLE-SIGNAL. CLIFFORD H. GEORGER, Buffalo, N. Y. Filed July 2, 1920. Serial No. 393,509. 4 Claims. (Cl. 116—53.)



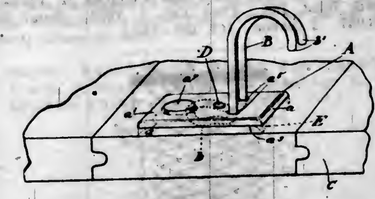
1. A signal of the character described comprising a casing having side walls and notches arranged therein and extending to the edges thereof, a pivot bolt supported in said notches, an indicating arm pivotally mounted at its lower end on said bolt to swing into and out of said casing, and means for actuating said arm.

1,394,001. APPARATUS FOR OBTAINING PRESSURE TIME DIAGRAMS. NORMAN R. GIBSON, Niagara Falls, Ontario, Canada. Filed Oct. 13, 1919. Serial No. 330,372. 4 Claims. (Cl. 234—17.)



1. Apparatus for obtaining pressure-time diagrams comprising a pressure indicator including a light intercepting body movable to indicate pressure; a camera containing a lens and having a slot therein in front of the lens parallel to the path of said light intercepting body; means behind the lens for moving an actinically sensitive surface in the focal plane of the lens at right angles to the length of the slot; and means for briefly breaking the actinic record at regular predetermined intervals of time by eclipsing the record forming rays.

1,394,002. INSERT FOR PLASTIC MATERIALS. WILLIAM M. GOLDSMITH, Cincinnati, Ohio. Filed May 27, 1920. Serial No. 384,692. 8 Claims. (Cl. 72—105.)



8. As a new article of manufacture for use with plastic construction, a perforated cap, a recess formed on the cap, an insert, an eye formed on the insert, the eye being adapted to assume a position between the cap and a mold in which the plastic is to be placed and to have such eye extending partly over the recess formed in the cap, and fingers on the insert extending through the perforations in the cap, the eye being capable of being moved to an extended position after the fingers are embedded in a plastic material.

1,394,003. MECHANICALLY-OPERATED SAFETY ZONE. CHARLES GOHR, Los Angeles, Calif. Original application filed May 29, 1920, Serial No. 385,320. Divided and this application filed Jan. 21, 1921. Serial No. 439,001. 8 Claims. (Cl. 105—341.)

1. In combination with a street car, a mechanism adapted to provide a safety zone comprising, a stationary cylinder, a reciprocal plunger mounted therein, a piston attached to said plunger, a valve to supply air pressure

to one side of said piston to cause the reciprocation of same against the tension of a spring, for the purpose of providing a safety zone, and in combination with said mechanism, means to illuminate the end of said reciprocal



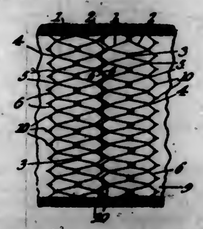
member, when the same is extended, and mechanical means to open the car motor circuit while said plunger is extended, thus preventing a possible starting of said street car while the safety zone mechanism is extended.

1,394,004. PARALLEL CLAMP FOR HOLDING JIG AND FIXTURE BUTTONS. HARRY V. GOULD, Bridgeport, Conn. Filed Feb. 3, 1919. Serial No. 274,783. 6 Claims. (Cl. 77—62.)



1. A clamp of the character described comprising a cross piece having a central unthreaded hole, arms extending from the cross piece, and bars having parallel inner faces at the ends of the arms, said bars being provided with recesses for convenience in passing the bars over a fixture button.

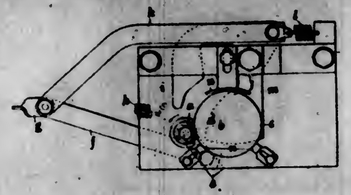
1,394,005. SPRING FOR CHAIR-BACKS AND THE LIKE. EDWIN E. GRAFF and CHARLES M. FISHER, South Bend, Ind. Filed Mar. 3, 1920. Serial No. 363,037. 2 Claims. (Cl. 155—181.)



1. A back cushion for automobile chairs and the like comprising a back structure, parallel spring units having their ends inturned and secured to the upper and lower portions of the back structure, said units being bulged outwardly from the structure, each unit including crossed zigzag wires twisted together at their points of intersection and having eyes at their side angles, zigzag attaching wires having hooked portions extending into the eyes, a pad extending over the spring units, and means for connecting the zigzag wires to the back surface of the pad.

1,394,006. SHEET-METAL-BLANK FEEDER. HARRY ALBERT GRIFFITHS, Birmingham, and RICHARD HANSON GRIFFITHS, Sutton Coldfield, England. Filed Feb. 14, 1921. Serial No. 444,885. 2 Claims. (Cl. 271—1.)

1. In mechanism for individually feeding sheet metal blanks from a stack to the tools of a press, the combination of a pair of oscillatory separating tools, a support arranged in conjunction with one of the tools, and means for actuating the separating tools and support so that one of the separating tools first enters the stack of the blanks and forms an apertury between the bottom



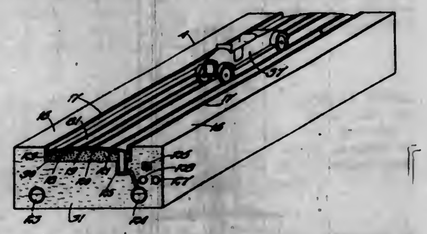
blank and those above it, and then the second separating tool enters and completely separates the bottom blank from the stack, the support meanwhile moving and finally allowing the bottom blank to fall away when the second separating tool has sufficiently entered the stack to support the blanks above it, substantially as described.

1,394,007. COLLAPSIBLE WARDROBE. MARY LUCY HALL, Louisville, Ky. Filed Jan. 3, 1921. Serial No. 434,516. 7 Claims. (Cl. 45—118.)



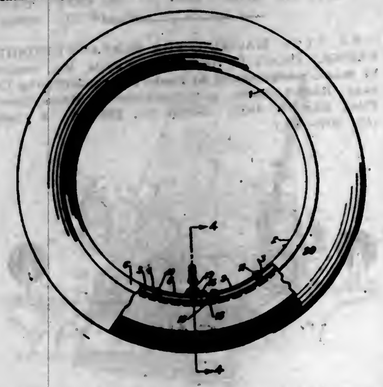
1. A collapsible wardrobe having a plurality of detached spreader frames, one at the top and one at the bottom; a separable fabric cover comprising rectangular end members overlying the respective frames; three side walls, permanently fixed to the edges of said end members of the cover; a front wall divided vertically into two side curtains, detachably fixed to the bottom end member cover and a band extending below the front edge of the upper end member of the cover and across the front wall to which the two parts of the front wall or curtains are attached by clasps and clasps connecting the proximate vertical edges of the two curtains of the front wall.

1,394,008. TOY. ROBERT C. HARGREAVES, Detroit, Mich., assignor of one-third to Roy D. Chapin and one-third to Guido G. Behn, Detroit, Mich. Filed Dec. 2, 1920. Serial No. 427,885. 14 Claims. (Cl. 35—16.)



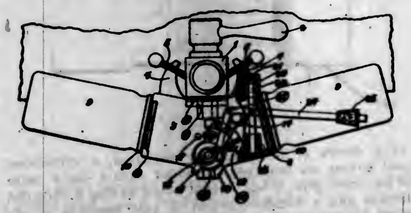
1. A toy composed of a series of sections constructed to simulate the appearance of a highway, the ends of the sections being covered with paper printed to illustrate the cross-sectional structure of a highway, and the surface being formed into a track for the passage of a toy vehicle.

1,394,009. TIRE-RIM. CHESTER N. HAUPTS, Columbus, Ohio. Filed July 15, 1920. Serial No. 396,464. 3 Claims. (Cl. 301—32.)



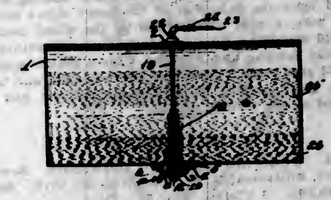
3. A tire rim comprising a substantially resilient metallic body formed to include separated and spaced ends, a pair of hinged toggle sections having their outer portions hinged to said ends, the meeting ends of said sections being formed to include a tongue extension capable of lying within a recess formed in the other coöperative section, said extension being pivotally connected to the inner wall of said recess, shoulders formed with the adjacent ends of said sections and situated in offset relationship with respect to the hinge of said tongue extension and operating to arrest outward movement on the part of said sections, and a strip formed with the section in which the recess is provided, said strip being capable of engaging with the other complemental section to relieve said shoulders of the stresses set up by the expanding movements of the sections, and said strip being further provided with an opening capable of receiving the air valve structure of a pneumatic tire carried by said rim, whereby said structure will serve to lock said sections to said tire.

1,394,010. LIQUID-DISPENSING DEVICE. THOMAS E. HESTER, St. Louis, and FREDERICK J. HARDESTY, Maplewood, Mo. Filed June 24, 1920. Serial No. 391,462. 4 Claims. (Cl. 221—112.)



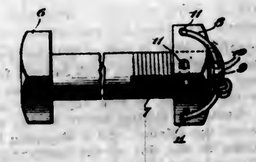
1. A liquid dispensing device, comprising a secondary container including a central body, and removable elements connected therewith; there being an air opening through the upper wall of said central body; a needle valve for controlling said air opening, a float controlled lever operated by the liquid received in said secondary container for controlling said needle valve; a discharge spigot from said secondary container; a valve for said spigot; and means for adjusting said lever by the movement of said discharge spigot valve for determining the liquid level at which the air opening will be closed.

1,394,011. FILTER FOR GASOLENE-TANKS. HENRY A. HILLS, Grand Rapids, Mich. Filed Sept. 4, 1917. Serial No. 189,550. 4 Claims. (Cl. 210—170.)



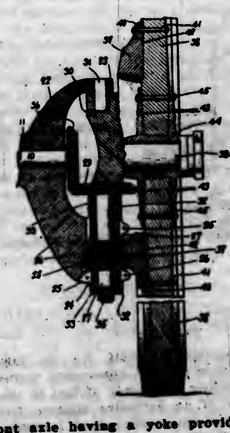
2. The combination with a gasolene tank, of a drain trap secured thereto, a pet-cock connected therewith, filter means impervious to water projecting through said trap and into the tank to filter gasolene contained within said tank, and outlet means for filtered gasolene connected to the upper end of said filter means, said pet-cock adapted to be opened to draw off water and other impurities from the bottom of the tank after the gasolene has been separated therefrom by said filter means.

1,394,012. NUT-LOCK. THEODORE M. HILL, Shubert, Nebr. Filed Oct. 14, 1920. Serial No. 416,924. 1 Claim. (Cl. 151—5.)



A bolt having a reduced portion extending from an end of and smaller than its shank and a transverse hole extending through said reduced portion, said reduced portion being arranged to permit insertion in and removal from the hole of a nut-locking wire when the nut practically covers the hole.

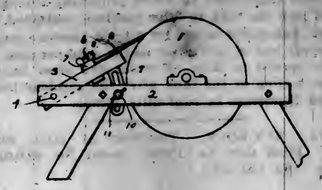
1,394,013. FRONT-WHEEL DRIVE FOR VEHICLES. SAMUEL T. HOENER, Slater, Mo. Filed Apr. 5, 1920. Serial No. 371,330. 2 Claims. (Cl. 74—101.)



1. A front axle having a yoke provided with upper and lower bearings of which the latter is provided with

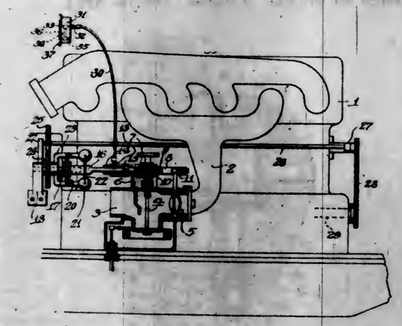
a removable cap member and is extended to form a sleeve bearing, a bracket block carrying a front wheel spindle and provided with an upper bearing pin mounted in the upper bearing of said yoke and a lower bearing sleeve mounted upon the extension of the lower sleeve bearing of said yoke, a gear ring carried by the wheel mounted upon said spindle, a counter spindle mounted within the lower yoke bearing and provided with a pinion meshing with said gear ring, a front axle shaft member and intermeshing gears carried by said shaft member and the upper end of the counter spindle.

1,394,014. WORK-SUPPORT FOR GRINDERS. SAMUEL E. HOLT, Rhinebeck, N. Y. Filed Aug. 23, 1919. Serial No. 319,503. 1 Claim. (Cl. 51—239.)



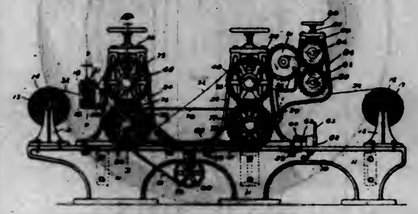
The combination with a rotary grinder and its supporting frame, of an adjustable work support formed with a longitudinal slot and pivoted to the frame at its end remote from the grinder, a stop adjustably mounted in said slot, a depending slotted sector at the end of the support adjacent the grinder, and a clamping bolt in the frame and lying in the slot of the sector for clamping the support in adjusted position.

1,394,015. AUTOMATIC ACCELERATOR AND FUEL-REGULATOR. GEZA HORVATH, Highland Park, Mich. Filed Oct. 8, 1919. Serial No. 329,859. 3 Claims. (Cl. 123—100.)



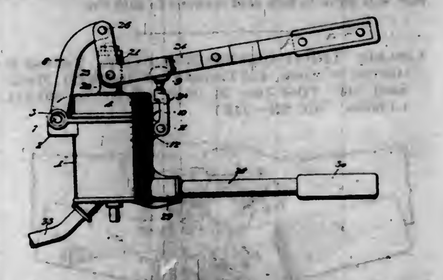
1. A fuel regulating device for the carbureters of internal combustion engines, comprising means for simultaneously regulating the supply of fuel to the carbureter and the supply of an explosive mixture from the carbureter to the engine, said means including a rolling gear and governor actuated means adapted to regulate the fuel supply to the carbureter by rolling the gear of the first mentioned means independent of any adjustment of remaining elements of the first mentioned means.

1,394,016. MACHINE FOR SURFACE-FINISHING PAPER. HENRY P. HOWE, Stacy Falls, Me., assignor, by mesne assignments, to Eastern Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed May 18, 1918. Serial No. 235,406. 8 Claims. (Cl. 101—23.)



1. A machine for surface-finishing a paper web on both sides, comprising complemental cylindrical rolls between which the paper is passed, marking sheets surrounding said rolls, mechanism for rotating said rolls synchronously in relatively opposite directions, and means for pressing said rolls together, the pressure between the rolls being supported wholly by their adjacent surfaces, and the rolls having surface depressions registering with one another to receive the ends of the markers; said depressions being diagonally arranged, whereby when they pass the line of roll tangency the continuity of pressure remains unbroken.

1,394,017. PRESSURE-OPERATED GREASE-INJECTING DEVICE OR GREASE-GUN FOR AUTOMOBILE SERVICE. FRANK JACKSON, Denver, Colo. Filed Aug. 29, 1919. Serial No. 320,290. 1 Claim. (Cl. 221—78.)



In a device of the character described, a cylindrical vessel having an inlet pipe provided with a check valve and an outlet pipe, a lug on said vessel having a threaded aperture and a handle screwed in said aperture, a cap hinged to said vessel having a lug thereon and an axial aperture, a yoke hinged to said vessel and adapted to be swung up over said lug and a thumb screw in the end of said yoke to engage said lug; a piston in said vessel having a rod which extends out through the axial aperture in said cap, a yoke secured upon the end of said rod, a lever having a forked end, the members of which terminate in foot portions, the heels of which are pivotally connected to the yoke on the piston rod, upright arms, the lower ends of which are pivotally mounted on the hinge pin of said cap, their upper ends being pivotally connected to the toe ends of said lever.

1,394,018. CONVEYER-BELT. ISAAC S. JACKSON, Newark, N. J., assignor to The Rosendale-Reddaway Belting & Hose Co., Newark, N. J., a Corporation of New Jersey. Filed Dec. 11, 1919. Serial No. 344,174. 2 Claims. (Cl. 91—68.)



1. A conveyer belt having a protective coating thereon, said coating comprising a material adapted to be applied to the belt in substantially a fluid state, and a solid material adapted to be thereafter applied and retained by the setting of the first mentioned material.

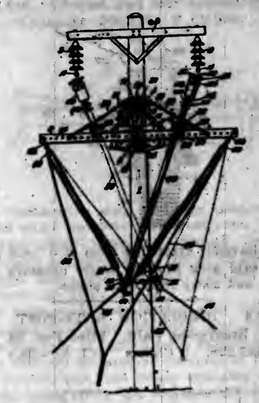
1,394,019. CABLE-COUPLING. HERMAN A. JENSEN, Castle Rock, Wash. Filed Nov. 12, 1920. Serial No. 423,719. 2 Claims. (Cl. 24—126.)



2. A cable coupling consisting of the combination with a socket-piece, and a head revolubly united by an annular flange provided on the head and a corresponding recess provided in the socket-piece, of an annular groove in the head, and a transverse retaining member in the socket-piece traversing the groove in the head.

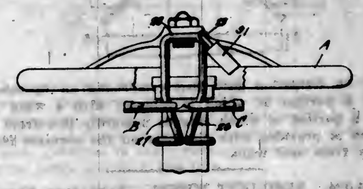
1,394,020. INSULATOR-CHANGER. TOMLINSON FORT JOHNSON, Jr., Atlanta, Ga. Filed Mar. 16, 1918. Serial No. 223,048. 32 Claims. (Cl. 175—265.)

1. An insulator changer for high tension circuits, comprising a cross-arm for temporary use, a support for the cross-arm having means for securing it to a line pole, a lifting pole with a retaining head at one end for a line



wire and having means at the other end for attaching tackle to the lifting pole, and a pole guide attachable to the cross-arm.

1,394,021. LOCKING DEVICE FOR AUTOMOBILES. EDWARD F. JONES, San Antonio, Tex., assignor of one-half to Caesar Cazell, San Antonio, Tex. Filed Mar. 21, 1919. Serial No. 284,040. 1 Claim. (Cl. 70—126.)



In a lock for the throttle control and steering wheel of an automobile, shackle members having their ends pivotally connected together, the said members diverging from the pivot and shaped in oppositely extending loops, the said looped portions of the said members having a clearance for the reception of a steering column of an automobile, the said members embracing the throttle controlling lever for limiting the movement of the said lever, one of said members being of greater length than the other, said longer member having its extremity lying at an angle to the main portion thereof at a point opposite the end of the shorter member, the said extension of the longer member having an eye in its end overlying the end of the shorter member and the said shorter member having an eye in its end adapted to register with the first mentioned eye for receiving a shackle of a lock, the said angularly extending extremity of the longer member overlying an arm of the spider of said steering wheel, and the said members embracing the said arm of the spider to limit the movement of the said steering wheel.

1,394,022. BALL-COCK. OWEN H. JONES, Hartford, Conn. Filed Feb. 26, 1918. Serial No. 219,233. 1 Claim. (Cl. 137—104.)

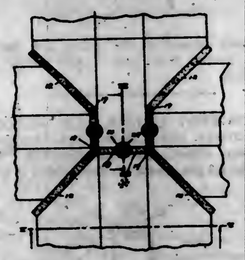
A ball cock comprising a body section having a recess in one end, a cap section having a neck and a lip overlying said recess, means for securing said sections together, a valve seat removably held in said recess by said lip, a diaphragm extending across the chamber in the cap section

and overlying said recess, and a plunger comprising a head fitting an opening in said diaphragm, and a shank



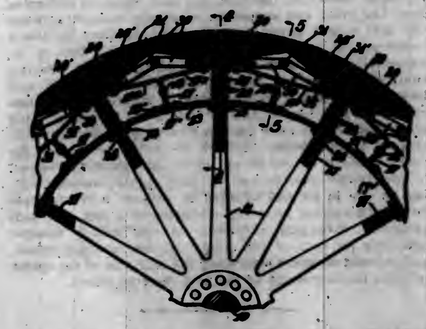
of reduced diameter extending from said head through an opening in said neck whereby water pressure is diverted at the head and away from said shank.

1,394,023. IRRIGATION GATE-POST. AUGUSTUS KEMPKEY, Brentwood, Calif. Filed Feb. 28, 1921. Serial No. 447,228. 6 Claims. (Cl. 61—28.)



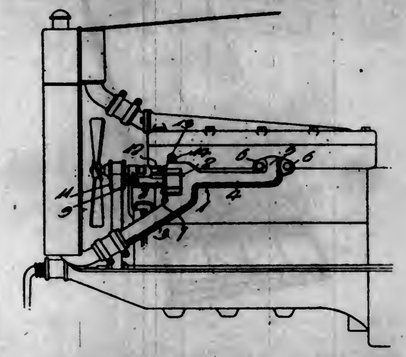
1. An irrigation gate post comprising an upstanding post a portion of which is integral with a wing wall and a portion of which extends upwardly therefrom and which is provided with channels on the surfaces facing away from said walls.

1,394,024. RESILIENT WHEEL. ALEXANDER KINDSER, Canon City, Colo. Filed Sept. 29, 1920. Serial No. 413,492. 5 Claims. (Cl. 152—8.)



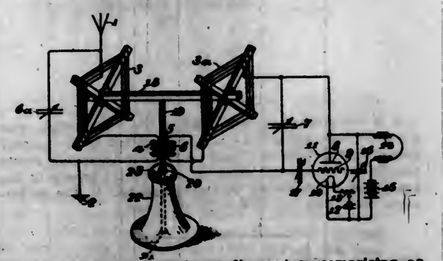
5. In a vehicle wheel a series of spokes having borings therein, a rim having outwardly projecting parallel flanges, a series of spring arms arranged in oppositely extending pairs on said rim, a series of blocks slidably confined between said flanges and secured at opposite ends to one arm of adjacent pairs, studs on the inner faces of said blocks engaging in the borings in the said spokes, and coiled expansion springs surrounding said studs, and toggle links pivoted at one end to the flanges of said rim and engaging said blocks at opposite ends and serving to limit outward movement of said blocks.

1,394,025. AUTOMOBILE WATER-PUMP. VINCENT KLUGA and FELIX KLUGA, Niagara Falls, N. Y. Filed Nov. 22, 1920. Serial No. 425,883. 1 Claim. (Cl. 123—175.)



A water pipe connection comprising a casting having a horizontal pipe section having at one end side ears for receiving securing screws for fitting into threaded openings formed in the wall of an engine, a pipe engaging tubular arm extending from its second end, the second end of the horizontal section being enlarged to provide a head having a pump chamber open at its outer side and having its inner side communicating with the upper end of the tubular arm, and an upper passage communicating with the water passage of the horizontal section, a lug extending from the enlarged end of the horizontal arm in the same plane as said side ears, a set screw passing through the threaded opening of said lug for engaging the wall of an engine and swinging the horizontal arm to apply locking pressure upon the screws passing through the side ears, a sleeve having a head at its inner end for closing the open outer side of said chamber, a shaft journaled in said sleeve and having an extended outer end portion and an inner end portion extending into said chamber, a rotary pump head upon the inner end of said shaft, and a pulley upon the outer end of said shaft.

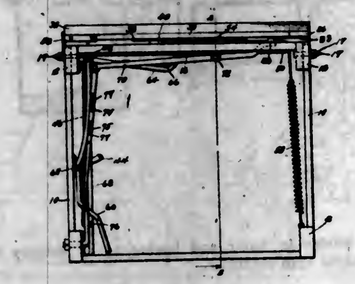
1,394,026. RADIO SYSTEM. LLOYD M. KNOLL, Philadelphia, Pa., assignor of one-fourth to Thomas Appleby, Philadelphia, Pa. Filed Apr. 2, 1920. Serial No. 370,683. 19 Claims. (Cl. 250—11.)



1. A unilateral directive radio system comprising an antenna, circuit containing uniform and non-uniform directional absorption structure serially connected.

1,394,027. [WITHDRAWN.]

1,394,028. SUPPORTING STRUCTURE FOR PACKING-BOXES. EDWARD A. KRING, Pasadena, Calif. Filed Aug. 11, 1919. Serial No. 316,871. 19 Claims. (Cl. 100—57.)



1. A packing box supporting apparatus comprising a supporting frame, a swinging box-carrying member carried by said frame, and mechanical means for rotating said box-carrying member to reverse the position of the box with reference to said supporting frame.

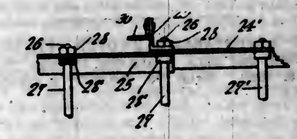
18. A packing box supporting apparatus comprising a supporting frame, a swinging box-carrying member carried by said frame, a fixed stop element engaging one end of said carrying member, a movable latch engaging the other end of said carrying member and coöperating with said stop element to temporarily prevent rotation of said member, means operative to impart an initial endwise movement to said carrying member to disengage said stop element and thereafter rotate said member to reverse the position of the box with reference to said supporting frame, said latch being arranged to permit said rotary movement in one direction and thereafter automatically latching said carrying member against reverse rotation, stop means acting automatically to limit said rotary movement to a half-revolution, and means operating automatically after said rotating action to impart a reverse endwise movement to said carrying member to re-engage the same with said stop element and allowing said stop means to return to inoperative position.

1,394,029. PLATE-ATTACHING MEANS. EDWARD H. LAWS, Cincinnati, Ohio, assignor to The Gustave Fox Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 24, 1920. Serial No. 361,051. 6 Claims. (Cl. 40—20.)



1. In plate attaching means, a plate, a tongue secured thereon at right angles thereto and having a vertically inclined slot therein extending downwardly toward said plate at an acute angle, a coupling member adapted to be inserted in said slot and projecting to each side of said tongue, and a base having a slot to receive said tongue and coupling member whereby said coupling member is adapted to wedge itself between said tongue and base to bind said plate to said base.

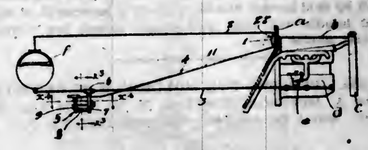
1,394,030. HARROW. WILLARD O. LONG, Mansfield, Ohio. Original application filed July 8, 1918, Serial No. 243,848. Divided and this application filed July 7, 1919. Serial No. 309,138. 2 Claims. (Cl. 55—3.)



1. The combination with a harrow comprising parallel strips, and angle members supported upon the strips, of teeth having stems extending through the strips and angle members, means engaging the stems for securing the teeth, strips and angle members together, and connections between the angle members.

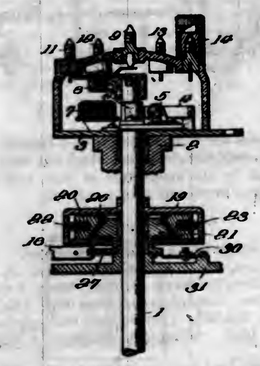
2. In a harrow the combination with strips, extension strips lapping the same, brackets, and connections between the brackets, of harrow teeth having threaded stems extending through the lapping portions of the strips and through the brackets, and means engaging the stems for holding the teeth strips and brackets assembled.

1,394,031. LIQUID-LEVEL GAGE. MATTIAS O. LUNDIN, Los Angeles, Calif. Filed June 1, 1920. Serial No. 385,781. 1 Claim. (Cl. 73—54.)



A liquid level gage comprising a conduit having a U-shape trap, means to adjustably space the legs of the U-shape trap, means at one end of the conduit to indicate the level of liquid at said end, and liquids of different specific gravities in the conduit, the heavier liquid being in the lower portion of the trap.

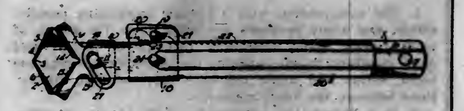
1,394,032. ELECTRIC-CIRCUIT-CONTROLLING DEVICE. SAMUEL CHRISTOPHER MCKNOWN, Newark, N. J., assignor to Splitdorf Electrical Company, Newark, N. J., a Corporation of New Jersey. Filed May 11, 1917. Serial No. 167,901. 11 Claims. (Cl. 175—355.)



1. The combination with an electric circuit of a pair of make and break contacts for periodically interrupting said

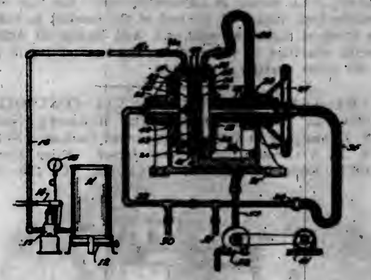
circuit, actuating means for said contacts, normally open circuit controlling means in said circuit independent of said contacts and frictional means controlling the circuit and controlling means to close said circuit upon operation of the actuating means.

1,394,033. ADJUSTABLE JAR-COVER OPENER. JOHN A. MCLEOD and ELLA A. DAUTON, Chicago, Ill. Filed Sept. 13, 1920. Serial No. 409,907. 2 Claims. (Cl. 81—3.1.)



1. An adjustable jar cover opener comprising a handle having a jaw at one end, a second jaw slidably mounted on said handle, a slidable member mounted on said handle, adjacent said second jaw, yieldable locking means carried by said slidable member adapted to engage said first named handle, a second handle pivotally mounted on said slidable member and adapted to engage said second jaw, and means carried by said second handle whereby a movement of said second handle will slide said second named jaw toward said first named jaw.

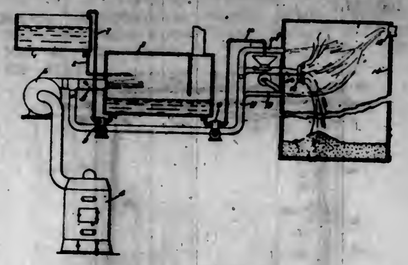
1,394,034. PROCESS FOR MOLDING WAX RECORDS. JOHN A. MCVICKAR, New York, N. Y. Filed Aug. 20, 1920. Serial No. 404,741. 6 Claims. (Cl. 18—5.3.)



1. A process for molding blank wax records consisting of rapidly forcing wax compound which has been reduced to a liquid state by the application of heat, into a suitable mold which has previously been vacuumed.

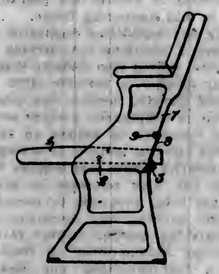
1,394,035. GRANULAR FOOD PRODUCT. JOHN C. MACLACHLAN, St. Paul, Minn., assignor to Standard Food Products Company, St. Paul, Minn., a Corporation of Delaware. Original application filed Aug. 21, 1916, Serial No. 115,997. Divided and this application filed Mar. 19, 1919. Serial No. 283,545. 1 Claim. (Cl. 99—5.)

A condensed food base made from milk, said base consisting of a multiplicity of granules which, in themselves, have an irregular formation and each of which consists of a plurality of loosely connected fine and small particles of irregular spongy character, the food base being thus



readily soluble in water and having as an entirety a homogeneous open character.

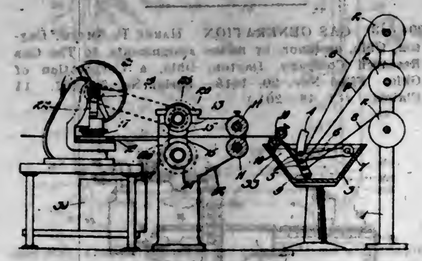
1,394,036. TIP-UP SEAT. ALFRED MAIN, Aberdeen, Scotland. Filed Sept. 22, 1920. Serial No. 411,974. 4 Claims. (Cl. 155—85.)



1. Means for holding a tip-up seat in an intermediate, substantially horizontal position before occupation, comprising in combination a flexible rod member, fixed to the rear of the seat, and projecting from the side thereof, a cam member, juxtaposed to the free end of said flexible rod, a recessed face on said cam member, shaped to receive said free end, a contiguous face on said cam member arranged in the path of said free end of the flexible rod when the seat is being tilted to the intermediate position, said contiguous face having a configuration to first distort said pin, and then, in the intermediate position of said seat, to allow the pin to jump into said recessed face, and a fixed abutment arranged above said recessed face to prevent the pin jumping across the recessed face, and to guide it thereinto, the recessed face having a configuration permitting the free end of said pin to ride away from under said abutment and out of said recessed face when the seat is occupied, thereby leaving the seat free to rise to a vertical position when the seat is vacated.

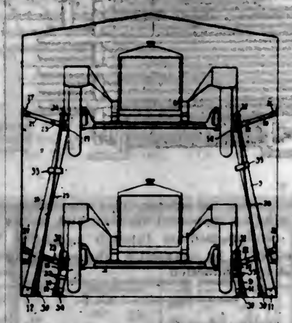
3. Means for holding a tip-up seat in an intermediate, substantially horizontal position, comprising in combination a flexible rod fastened underneath and toward the rear of said seat and projecting from one side, a slotted member fixed to the under side of said seat, and sleeved over the projecting free end of the flexible rod to limit the movement thereof, and a fitting formed as a single casting fixed adjacent the projecting free end of said flexible rod, comprising a cam member having a top recessed face and contiguous convex and concave faces, and an abutment arranged above said recess substantially as and for the purpose set forth.

1,394,037. APPARATUS FOR MAKING PAPER SPOONS AND OTHER FLAT PAPER UTENSILS. GEORGE P. MALLORY, Yorklyn, Del., assignor, by mesne assignments, to Sanitary Products Corporation of America, Philadelphia, Pa., a Corporation of Virginia. Filed Sept. 20, 1919. Serial No. 326,599. 2 Claims. (Cl. 18—19.)



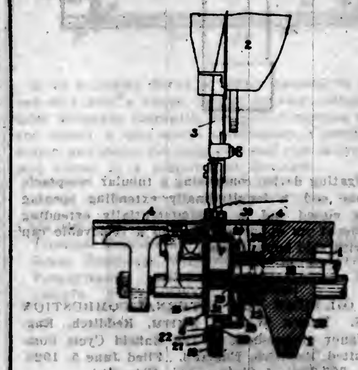
1. An apparatus for forming paper spoons or other articles, having a pair of cooperating rotary embossing rolls between which a sheet of material from which the articles are to be formed is fed, each roll having on its periphery an embossing die, said dies extending only partially around the circumference of the roll and being raised above the surfaces of the roll so that there is a space between the two ends of the die which does not engage with the sheet, thereby causing a dwell in the movement of the sheet between the time that the last engaging portion of the die passes out of engagement with the sheet and the time when the first engaging portion of the die again comes in contact with the sheet, in combination with a pair of cutting dies between which the sheet is fed from the embossing rolls, said cutting dies being shaped to a contour to cut out the embossed blank from the sheet, and means for driving the embossing dies and the cutting dies in such timed relation to each other that the cutting dies will be operated during the dwell in the travel of the sheet occasioned by the blank spaces between the two ends of the embossing dies.

1,394,038. CAR-LOADING SYSTEM. GILBERT P. MARINIER and EDWARD E. CHEVELER, Pontiac, Mich., assignors to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Oct. 16, 1919. Serial No. 330,932. 5 Claims. (Cl. 105—368.)



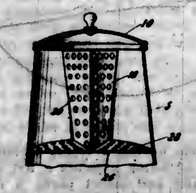
1. In a car loading system for use in shipping motor vehicles in freight cars, inclined supporting or strut members extending upward from the door and inward from the sides of the car; metallic base members secured one to the lower end of each of said strut members and provided each with a flange whereby said base members may be fastened to the floor of the car; metallic cap members secured one to the upper end of each of said strut members and provided each with a seat adapted to receive and support the outer end of the hub of a motor vehicle; brace members extending from the sides of the car inward and the inner ends of which are secured to the cap members at the upper ends of said strut members, and which brace members lie substantially in vertical planes extending through said strut members and through the axles of a motor vehicle supported by said strut members; and flexible tension members, one associated with each of said strut members, the middle portions of said tension members extending over the hubs of a motor vehicle supported by said strut members to thereby hold said hubs in the seats aforesaid, and the ends of said members being secured to the floor of the car at two points spaced apart from one another and located one in front and the other to the rear of the lower ends of said strut members.

1,394,039. SEWING-MACHINE. JAMES MARSDEN, Wigan, England. Filed Feb. 1, 1921. Serial No. 441,669. 9 Claims. (Cl. 112—189.)



1. A sewing machine having in combination a shuttle driver so pivotally supported at the point upon which it oscillates or rotates, as to be eccentric to and below the axis of the operating shaft and thus be at a greater distance from the underside of the work plate, than the shaft is, in order to permit of it being of larger dimensions and enable a larger quantity of under thread to be contained within the shuttle, a circular shuttle race fixed concentrically with respect to the axis of the shuttle driver, a shuttle running on the said race, and a bobbin supported within the said shuttle.

1,394,040. COFFEEPOT. BENJAMIN OLSHASKIE, Pana, Ill. Filed July 12, 1920. Serial No. 395,484. 2 Claims. (Cl. 53—8.)



1. A receptacle of the class described comprising a body, a discharge spout connected thereto, said body being pro-

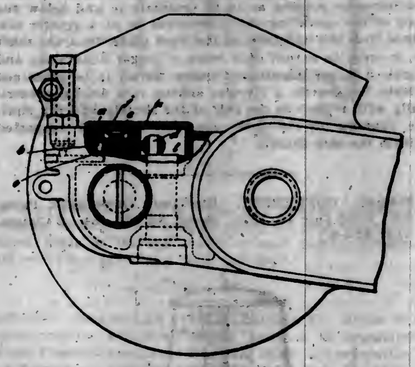
vided with perforations in one side wall thereof thereby communication is established between said spout and body, a perforated strainer secured to said body and being V-shaped in cross section, and a perforated baffle secured flatly in contact with the entire lower end of the strainer and extending beyond the sides of the same, the enlarged upper end of the strainer being open to permit cleaning.

1,394,041. IRRIGATING DEVICE. EVELYN ROBBINS, Richmond, Calif. Filed Feb. 10, 1920. Serial No. 357,526. 3 Claims. (Cl. 61—13.)



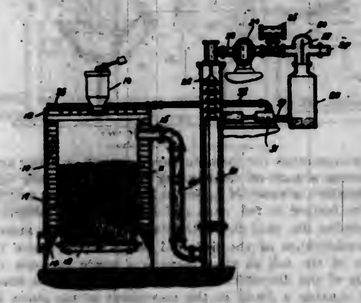
1. An irrigating device comprising a tubular receptacle closed at one end, a longitudinally extending opening adjacent its closed end, a circumferentially extending opening adjacent its opposite end, and a removable cap associated with said opposite end.

1,394,042. OIL-PUMP FOR INTERNAL-COMBUSTION ENGINES. FRANK WALKER SMITH, Redditch, England, assignor of one-half to The Enfield Cycle Company, Limited, Redditch, England. Filed June 5, 1920. Serial No. 386,792. 1 Claim. (Cl. 184—34.)



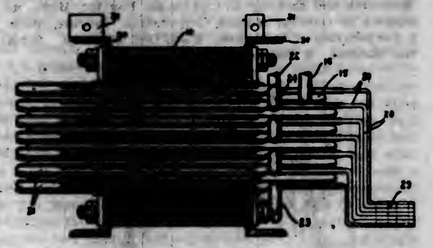
An engine frame having a recess including a bearing seat the bottom of which presents a flat surface and is provided with inlet and outlet ports, a drum mounted for oscillation in said seat and on said flat surface and having a bore and a port leading from said bore and arranged to register successively with said port of the frame, a rotary shaft having a crank pin projecting into said recess, a plunger operated by said crank pin and arranged to reciprocate in said bore, a cover for said recess, and a spring bearing between said cover and the top of said drum and serving to press the latter firmly against said flat surface.

1,394,043. GAS GENERATION. HARRY F. SMITH, Dayton, Ohio, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio, a Corporation of Ohio. Filed Nov. 20, 1918. Serial No. 263,407. 11 Claims. (Cl. 48—201.)



5. The method, in the generation of producer gas, which consists in withdrawing gas from the generating chamber; removing the heavy hydrocarbons therefrom and returning them to the generating chamber above the combustion zone of the fuel bed therein.

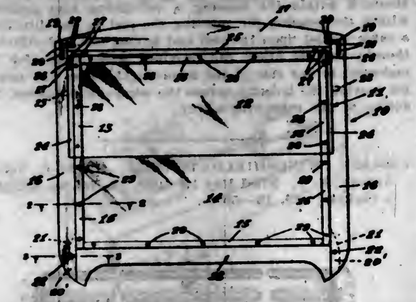
1,394,044. WATER-COOLED TRANSFORMER. HOWARD O. STEPHENS, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Mar. 25, 1919. Serial No. 285,043. 8 Claims. (Cl. 175—356.)



1. In an electric apparatus, the combination with a core, of a winding supported thereon, and means for circulating a cooling medium through a portion of said winding to cool it by convection, the remaining portion being cooled by conduction.

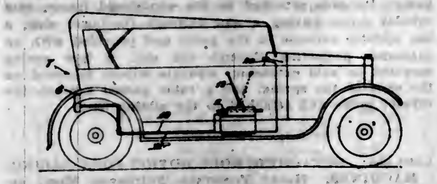
1,394,045. WINDSHIELD. ARTHUR J. STRETCH, Seattle, Wash. Filed Apr. 26, 1920. Serial No. 376,843. 4 Claims. (Cl. 296—84.)

1. In a wind shield comprising a frame having a portion of its inner edges cut away to form a seat, a plate of glass disposed in one portion of said seat, a strip having its outer edge undercut to form a shoulder that is adapted to bear against the side surface of said frame adjacent its inner edge for pivotal movement thereon,



said strip also having its inner edge undercut and adapted to engage said glass, and adjustable securing means for said strip.

1,394,046. REAR LIGHT FOR AUTOMOBILES AND THE LIKE. CLARENCE S. SWANEY, Los Angeles, Calif. Filed Feb. 6, 1920. Serial No. 356,789. 2 Claims. (Cl. 240—7.)



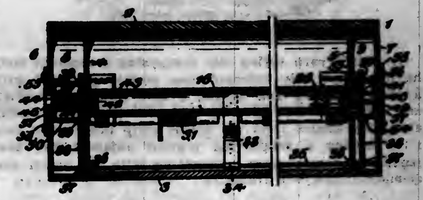
1. In combination with a reverse mechanism of an auto vehicle, a lamp casing, a reflector disposed within said casing and formed with an opening to allow rays of light to enter said casing, an electric lamp disposed in said reflector to project light rearwardly of the vehicle, a translucent indicia bearing plate disposed in said casing so that part of the light emanating from said lamp will pass through said opening and through said translucent indicia bearing plate to render it apparent at night, and circuit closing means disposed to be actuated upon movement of said reversing mechanism to cause a current to pass through said lamp; whereby the road rearwardly of said vehicle is illumined.

1,394,047. CAMERA. SYDNEY C. SWANN, Richmond, Va., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 15, 1916. Serial No. 84,320. 21 Claims. (Cl. 242—71.)



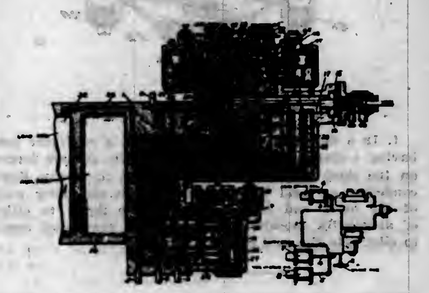
10. In a device of the character stated, a reel of polygonal shape in cross-section, and having longitudinally extending, juxtaposed, spaced apart lips adapted to receive the end of a strip of material, centers of polygonal shape in cross-section and engaging the ends of said reel, a rod extending in a plane parallel to said reel, connections from said rod to said centers, and means for actuating said rod, connections and centers simultaneously.

1,394,048. REEL-ACTUATING DEVICE FOR CAMERAS AND THE LIKE. SYDNEY C. SWANN, Richmond, Va., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Original application filed Mar. 15, 1916, Serial No. 84,320. Divided and this application filed Nov. 29, 1916. Serial No. 134,100. 9 Claims. (Cl. 242—71.)



1. In a reeling device, a center adapted to engage the end of a reel, a pinion carried by said center and rotatable in unison therewith, means for rotating said pinion and center, a cam sleeve surrounding a portion of said center, and means coacting with said cam sleeve to actuate said center in a longitudinal direction.

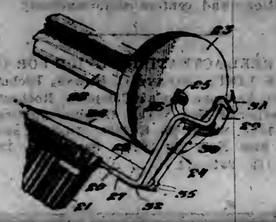
1,394,049. EMPTY AND LOAD BRAKE. THOMAS H. THOMAS, Edgewood, Pa., assignor to Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Nov. 29, 1920. Serial No. 426,976. 9 Claims. (Cl. 303—23.)



1. In a fluid pressure brake, the combination with a valve, of means having a seated position and subject to opposing fluid pressures for operating said valve, said means having one area which is subject to the opposing fluid pressures in the seated position and a reduced area which is subject to said pressures when unseated.

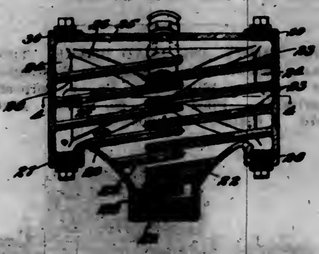
9. In a fluid pressure brake, the combination with a brake pipe and brake cylinder, of an additional brake cylinder, a valve for controlling a fluid pressure connection to the additional brake cylinder, and means for operating said valve comprising a seat member and a piston, the seat member being subject over a predetermined area in the seated position to the opposing pressures of the first brake cylinder and the brake pipe, and said piston being subject, upon movement from the seated position, to said opposing fluid pressures.

1,394,050. TUFT-YARN SPRING-CLIP. ARTHUR TORREN THORPRAW, Hightstown, N. J. Filed June 15, 1920. Serial No. 387,912. 5 Claims. (Cl. 139—98.)



1. A tuft yarn spring clip comprising a resilient strip having a laterally enlarged base portion provided with a screw opening and having a slot extending through one edge from said opening, said base portion extending at obtuse angles from the spring strip proper and said strip having a reinforcing portion adjacent the base portion and means for cooperating with the usual end member of the yarn frame.

1,394,051. DISTRIBUTER-HEAD. JAMES M. TOWLE, West Somerville, Mass., assignor of one-half to Louis I. Beckwith, Boston, Mass. Filed Mar. 17, 1920. Serial No. 366,598. 13 Claims. (Cl. 183—83.)



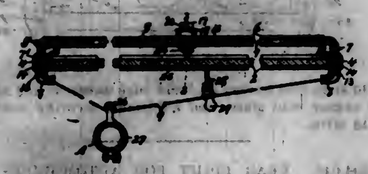
1. In a device of the class described, a separator head having a plurality of baffle plates therein, grooves formed on the inner face of the head adapted to receive liquid condensed on said baffle plates and on the inner walls of the head, and adapted to lead the liquid to either of diagonally opposite portions of the head, and means to eliminate the said condensed liquid.

1,394,052. WINDSHIELD-CLEANER. HENRY C. TRIPP, Auburn, N. Y. Filed Mar. 5, 1919. Serial No. 280,765. 1 Claim. (Cl. 15—59.)



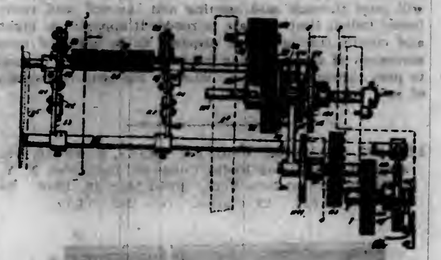
A wind-shield-cleaner comprising a guide to extend across the wind-shield, a relatively small circular casing or housing movable along said guide, arms mounted to and extending radially from said housing in opposite directions, wipers mounted on said arms, a reel rotatably mounted within the housing, a coil-spring also mounted within the housing for rotating the reel in one direction, a cable wound upon the reel and having one end attached thereto and its other end provided with means for attachment to one side of the wind-shield-frame, and means for moving the housing across the wind-shield against the action of the retracting-spring.

1,394,053. WINDSHIELD-CLEANER. HENRY C. TRIPP, Auburn, N. Y. Filed May 19, 1920. Serial No. 382,486. 3 Claims. (Cl. 15—59.)



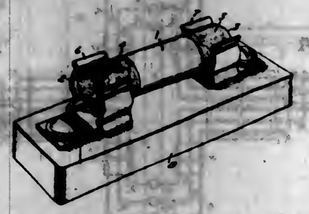
1. A cleaning device for windshields comprising, a tubular guide extending lengthwise of the windshield and having its ends attached to the windshield frame, said tubular guide having a slot through its lower side, a bar slidable endwise in the guide and provided with an extension projecting through the slot, a bow spring mounted on said extension, separate wipers mounted on the ends of the spring, and a cable passed through the tubular guide and attached to the sliding bar.

1,394,054. DETACHING ROLL-MOTION FOR COMBING-MACHINES. HARRY TUNSTALL, Fairhaven, Mass., assignor to Alsatian Machine Company, Boston, Mass., a Corporation of Massachusetts. Original application filed Oct. 7, 1918, Serial No. 257,089. Divided and this application filed Oct. 22, 1919. Serial No. 334,227. 6 Claims. (Cl. 19—6.)



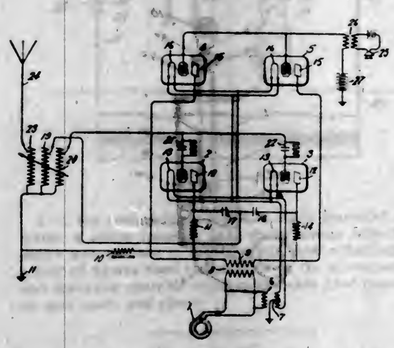
3. As a means for oscillating and progressively rotating a roll, a reciprocating rod, means for reciprocating it, a clutch one member of which is connected to said rod to be oscillated by it, the other member of said clutch being connected to said roll, and means comprising two oppositely-disposed ratchets and two pawls each adapted to engage one of said ratchets, for connecting said clutch members, and means adapted to hold one of said pawls out of engagement with its ratchet during a portion of its engaging movement whereby the rotary movement of one member will be longer in one direction than in the other.

1,394,055. RESISTANCE-UNIT TERMINAL. WILLIAM C. WHITE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 15, 1920. Serial No. 365,830. 4 Claims. (Cl. 219—76.)



1. An electrical conductor comprising a vitreous material, a conductor distributed therethrough and containing at the surface portions thereof conductive material of colloidal fineness of subdivision constituting current conveying terminals.

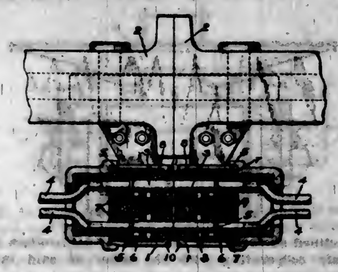
1,394,056. SIGNALING SYSTEM. WILLIAM C. WHITE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 8, 1920. Serial No. 393,812. 10 Claims. (Cl. 250—17.)



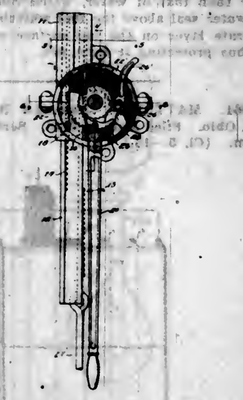
9. The combination in a high frequency signaling system of a pair of electron discharge devices having coupled grid and plate circuits, a source of low frequency alternating current oppositely connected to the plate circuits of the two devices and means for varying in accordance with a signaling current the potentials applied from said source to the electrodes of said devices.

1,394,057. ELECTRIC COUPLING DEVICE. HARRY F. WOMANLEY, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed May 4, 1918. Serial No. 232,466. 1 Claim. (Cl. 173—332.)

The combination with a car coupler, of an electric coupler head secured to said car coupler and comprising a casing, longitudinally movable yielding contacts therein for engaging in a vertical plane corresponding contacts of a counterpart coupler head, a longitudinally movable plunger member having apertures through which said contacts extend, and means for maintaining the contact faces of the contacts flush with the face of said member when the coupler head is in the uncoupled position.



1,394,058. HAND-BRAKE FOR RAILWAY-CARS. GEORGE A. WOODMAN, Chicago, Ill. Filed July 29, 1920. Serial No. 399,827. 9 Claims. (Cl. 74—110.)

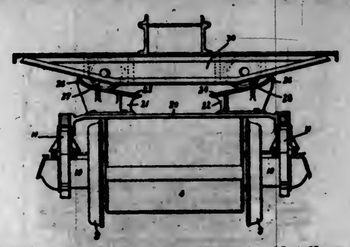


1. A railway car hand brake comprising a lengthwise movable multiple rack bar, a shaft, multiple gears of different diameters mounted on said shaft to engage the racks on said bar, and means for operating said shaft and gears to impart a variable speed movement to said rack bar.

1,394,059. LOCOMOTIVE OR CAR. ASA F. BATCHELDER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Original application filed Mar. 21, 1918, Serial No. 223,724, now Patent No. 1,350,861, dated Nov. 23, 1920. Divided and this application filed Apr. 21, 1919. Serial No. 291,601. 22 Claims. (Cl. 105—174.)

18. In a locomotive or car, a car frame, a truck comprising axles, journal boxes for said axles, and a truck frame supported on said journal boxes, said truck frame being rigidly connected to said car frame, a second truck comprising axles, journal boxes for said axles, and a truck frame supported on said journal boxes, a guiding joint between said trucks, and a centering device for supporting said car frame on said second truck frame comprising means rigidly mounted on said truck frame and provided with two oppositely inclined surfaces and a

coöperating member carried by said car frame comprising two rollers, one of said rollers coöperating with one of

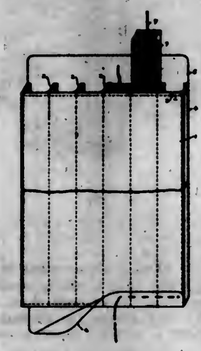


said inclined surfaces and the other of said rollers simultaneously coöperating with the other of said inclined surfaces.

1,394,060. METHOD OF FIREPROOF-STORING MOBILE FUEL. LINDON WALLACE BATES, Mount Lebanon, N. Y. Filed Aug. 5, 1919. Serial No. 315,563. 4 Claims. (Cl. 23—11.)

1. That method of storing a stable mobile fuel comprising liquid hydrocarbon and pulverised carbonaceous substances where the specific gravity of the composite is greater than that of water, which consists in maintaining a water seal above the fuel whereby the water forms a separate layer on the top surface only of the mobile fuel, thus protecting it from fire.

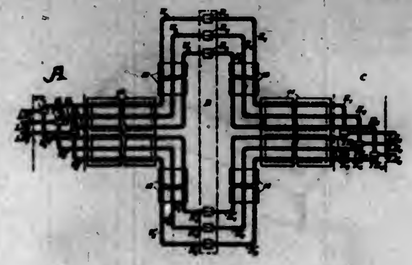
1,394,061. MATTRESS. ABRAHAM BERNSTEIN, Cincinnati, Ohio. Filed Mar. 4, 1918. Serial No. 220,221. 1 Claim. (Cl. 5—13.)



In a mattress in combination with a casing having a series of partitions dividing said casing into compartments, of a series of resilient filling strips arranged to fit into said compartments, and a longitudinal line of stitching in each of said strips, independent of said casing, the ends of said stitching extending beyond the ends of the strips to provide grips whereby said strips may be inserted into and removed from said compartments.

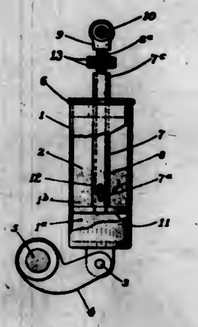
1,394,062. MEANS FOR AND METHOD OF REDUCING CROSS-TALK IN FOUR-WIRE CIRCUITS. OTTO B. BLACKWELL, Garden City, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed May 20, 1918. Serial No. 235,680. 36 Claims. (Cl. 179—78.)

26. In a transmission system comprising a cable having a plurality of conductors employed for the transmission of signaling currents, the currents transmitted by certain of said conductors being large as compared with the currents transmitted by other of the conductors in a region near the terminals, the method of reducing cross-



talk which consists in electrically separating the two sets of conductors so that conductors in which large currents flow will be separated from conductors in which small currents flow.

1,394,063. DASH-POT. EDGAR MAYNARD CAMP, Newark, N. J., assignor, by mesne assignments, to William D. Bleick, Newark, N. J. Filed Nov. 17, 1919. Serial No. 338,599. 8 Claims. (Cl. 188—96.)

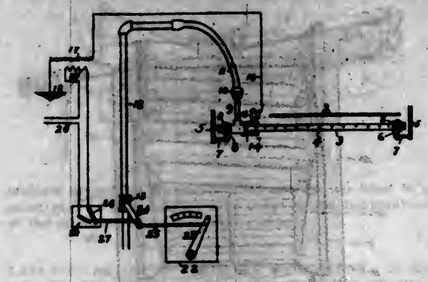


1. The combination of a casing having fluid therein, and means including a piston mounted therein to permit relative reciprocable movement between the casing and piston, said means having a port permitting the flow of fluid from one side of the piston to the other, and means controlling the size of said port and opening the port to a greater extent on one stroke than on the opposite stroke whereby the retarding action of the fluid against such relative movement is greater for one stroke than the opposite stroke, said port controlling means being adjustable to vary the size of the port for one of said strokes.

1,394,064. PRINTING-PRESS ATTACHMENT. WILLIAM HENRY CHAPMAN, Portland, Me. Filed July 27, 1921. Serial No. 487,901. 4 Claims. (Cl. 175—264.)

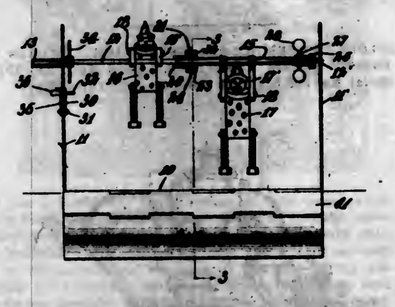
1. A printing press attachment for neutralizing static electricity and drying ink, consisting of a gas burner within the heating zone of which the printed paper passes, a shut-off valve for controlling the gas supply to said burner, a starting device for starting and stopping the

press, mechanism connecting said shut-off valve and said starting device, mechanism for delivering a charge of



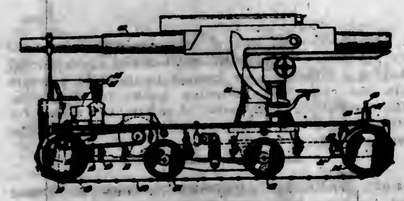
alternating electricity to the gas flame, control mechanism for the same and said control mechanism being connected to and operated simultaneously with said gas shut-off.

1,394,065. GYMNASTIC TOY. JOSEPH CHOJNIK, Whiting, Ind. Filed Jan. 13, 1921. Serial No. 436,876. 2 Claims. (Cl. 46—40.)



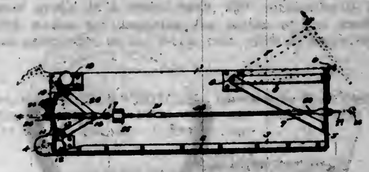
1. A toy comprising a frame, a shaft journaled in said frame, a sleeve loose on said shaft, means whereby said sleeve may be fixed to said shaft to rotate therewith, and a pair of figures fixed respectively on the sleeve and shaft and manually operable rotation elements fixed respectively on said shaft and sleeve.

1,394,066. AERIAL-GUN TRACTOR. WALTER CHRISTIE, Weehawken, N. J. Filed Mar. 2, 1920. Serial No. 362,804. 6 Claims. (Cl. 180—9.1.)



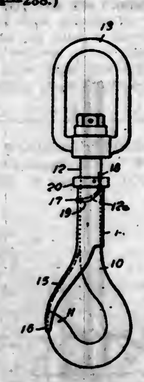
1. In a tractor, the combination with the frame thereof and a wheel support comprising an arm movably mounted on the frame on a transversely extending axis, of a spring between the frame and arm, and an adjustable abutment for rendering the spring ineffective.

1,394,067. REAR-LOADING SCOOP. HARRY MCKEAN CONNER, deceased, Scranton, Pa., by Eli T. Conner, administrator, Scranton, Pa. Filed Feb. 13, 1920. Serial No. 358,076. 5 Claims. (Cl. 37—54.)



5. In a rear end loading scoop, a rear gate comprising upper and lower closing members, the upper member being pivotally mounted at its upper edge to swing upwardly and rearwardly at its lower edge, the lower member being pivoted at its lower edge to swing rearwardly and downwardly at its upper edge, the lower member being relatively narrow so as to close against the load with a minimum resistance and the upper member being rearwardly curved between its upper and lower edges, and means for operating the closing members in unison with each other.

1,394,068. HOISTING-HOOK. BENJAMIN COUSINS, Tulsa, Okla. Filed Sept. 9, 1920. Serial No. 409,080. 6 Claims. (Cl. 24—238.)

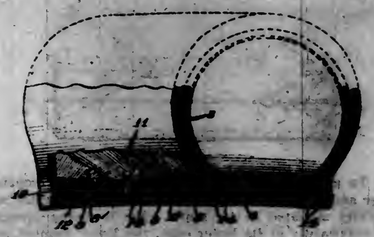


2. The combination with a hook embodying the usual shank and point of a sleeve slidably and rotatably mounted upon said shank and embodying an extension adapted to engage the point of the hook with its lower end and means connecting said shank and sleeve whereby said sleeve is shifted vertically on said shank when rotated, comprising a spiral groove formed in said shank and a dog secured to said sleeve and engaging in said groove, said groove having its upper end disposed upon the side of said shank remote from said point.

1,394,069. METHOD OF CONSTRUCTING PNEUMATIC TIRES. FREDRICK S. DICKINSON, New York, N. Y., and JOHN SPRINGER, Bradley Beach, N. J., assignors to said Dickinson. Filed Aug. 16, 1916, Serial No. 115,138. Renewed Mar. 18, 1921. Serial No. 453,476. 18 Claims. (Cl. 154—14.)

1. The method of constructing the internal body fabric for the shoe or casing of pneumatic tires, which comprises laying a continuous length of cord or thread back and forth over a core or mandril to produce loops at the side edges of the cord fabric at the bead-edge portion, the continuous length of cord being turned upon itself to form

said side-edge looped, and locating a friction-fabric strip in retained position at a point under the length of cord and immediately beyond the looped-edge portion, the cord



being placed in its successive lay in contact with said friction-fabric strip and retained thereby in said position with the looped side edges of the cord fabric initially extending in free position beyond said strip.

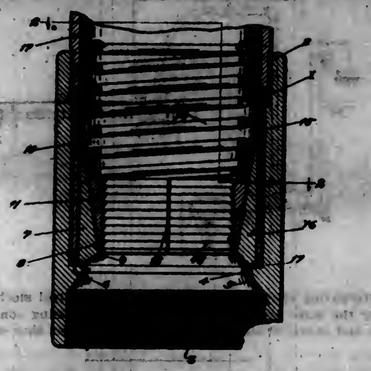
1,394,070. SHAVING MIRROR AND STAND. HENRY DIFFANY, Newark, N. J. Filed Apr. 7, 1919. Serial No. 287,990. 1 Claim. (Cl. 45—100.)



In a device of character described, the combination with an apertured base, provided with a downwardly extending bearing, a one piece split ferrule secured within said bearing, said ferrule being provided with an outwardly extending bead to engage with the under side of the bearing, and an outwardly extending flange, adapted to engage with the upper side of the base and a mirror supporting upright, one end of which is frictionally secured within said ferrule.

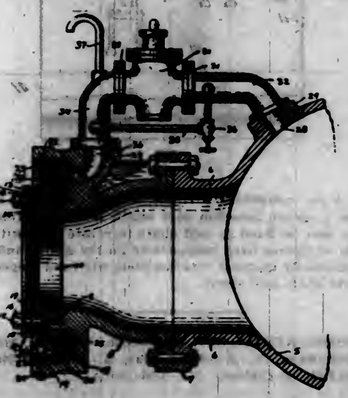
1,394,071. FISHING-TOOL FOR USE IN DRILLING OPERATIONS. DENNIS L. DARCOLL, Coalinga, Calif., assignor of one-half to Bunting Iron Works, San Francisco, Calif., a Corporation of California. Filed May 22, 1920. Serial No. 383,401. 4 Claims. (Cl. 294—102.)

1. A fishing tool of the class described, comprising a socket ring formed with an inclined surface, an engaging member pivotedly therein and consisting of a plurality of engaging dogs movable over the inclined surface to open and closed position, a spring for normally maintaining said engaging member in closed position within the ring and means engaging the spring and the socket ring



for maintaining said spring under tension at all times, and for retaining the socket ring dogs and spring together to form a unit structure.

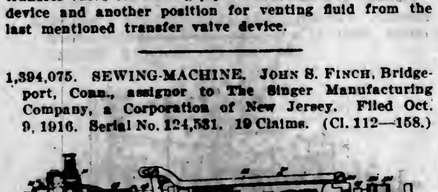
1,394,072. PRESSURE-RELIEF DEVICE. CHARLES C. EGBERT, Niagara Falls, N. Y. Filed July 23, 1920. Serial No. 398,524. 14 Claims. (Cl. 137—53.)



1. The combination with a receptacle containing fluid under pressure, of a pressure relief device characterized by having a bursting plug exposed to the fluid pressure within the receptacle, fastening means for the plug, having a relatively high factor of safety, and means for exerting an auxiliary pressure against the plug and the fastening means.

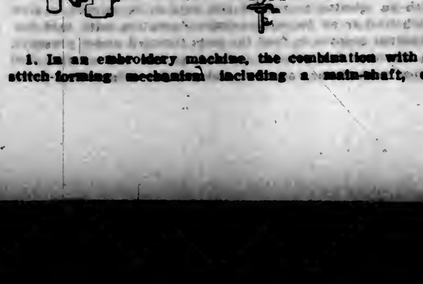
1,394,073. KEROSENE-BURNER. FLOYD W. EVANS and AMANDUS A. MILLER, Buffalo, N. Y. Filed Sept. 29, 1920. Serial No. 413,501. 8 Claims. (Cl. 158—65.)

1. In a kerosene burner, in combination, a hollow burner head having burner ducts, a mixing pipe arranged over and communicating with said head, a pipe for air under pressure having a nozzle communicating with said mixing pipe, an oil pipe communicating with said mixing pipe below said nozzle, and a pipe for conducting a fluid



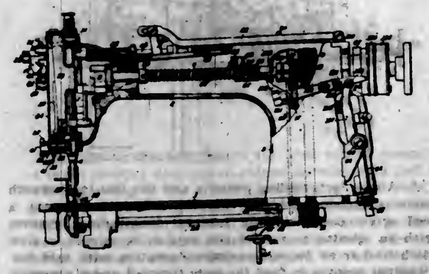
medium heated by the flames from said burner head to a point back of said nozzle where it raises the temperature of the oil as it enters said mixing pipe.

1,394,074. LOCOMOTIVE BRAKE EQUIPMENT. CLYDE C. FARMER, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed July 23, 1920. Serial No. 398,470. 16 Claims. (Cl. 303—14.)



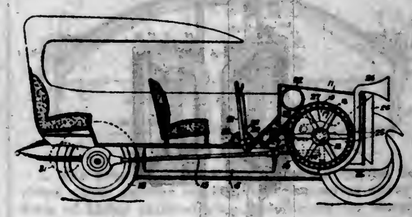
16. In a locomotive brake equipment, the combination with a brake controlling pipe and a pair of transfer valve devices for controlling communication through said pipe, of a transfer valve controlling pipe and a cock at each end of the locomotive, the cock at one end having one position for supplying fluid under pressure through said pipe to one transfer valve and another position for venting fluid under pressure from said pipe, and the cock at the other end having one position for connecting said transfer valve controlling pipe to the other transfer valve device and another position for venting fluid from the last mentioned transfer valve device.

1,394,075. SEWING-MACHINE. JOHN S. FINCH, Bridgeport, Conn., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Oct. 9, 1916. Serial No. 124,531. 19 Claims. (Cl. 112—158.)



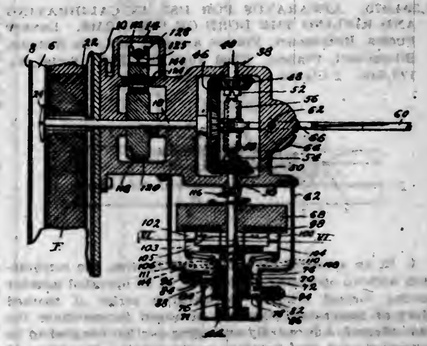
1. In an embroidery machine, the combination with a stitch-forming mechanism including a main-shaft, of means under the control of the operator during the operation of the machine for effecting stitch-forming movements of the needle in separate paths for an indeterminate period and for continuing the stitch-forming movements of said needle in a single path, and automatically controlled means for arresting the action of the machine at the completion of the single path cycle of operation.

1,394,076. MOTOR-VEHICLE. EDWARD L. FITZ GIBBON, Brooklyn, N. Y. Filed Nov. 29, 1919. Serial No. 341,530. 3 Claims. (Cl. 180—66.)



2. In a motor vehicle, the combination of a vehicle frame and wheels, an air driven turbine mounted in the frame and adapted to rotate the wheels, a circular casing inclosing the turbine, cups around the latter, compressed air driving means for the cups, a throttle valve operated from the seat of the vehicle, an air intake at the front of the vehicle, and a pipe from the intake to deliver air around the motor casing as an auxiliary to the compressed air driving means.

1,394,077. FILM-WINDING APPARATUS. EARL H. FRANCIS, Mount Washington, Mo. Filed Dec. 27, 1919. Serial No. 347,685. 8 Claims. (Cl. 242—57.)



4. In an apparatus of the character described, the combination of an electric motor, a driving shaft actuated by said motor and adapted to carry a film receiving reel, a driven shaft adapted to carry a reel with a film and be driven by said film from said diving shaft, a circuit for the motor, manually controlled means to initially close said circuit, a switch to maintain said circuit in closed position, a governor carrying certain of the switch points, a nut driven by said governor and carrying the opposing switch points, a threaded element actuated by the driven shaft to drive the governor and move the nut toward and away from said governor to close and open the switch points, and yieldable means to permit the



1. In a focusing device for cameras, the combination with a barrel holding three lenses of a four lens system, of a movable mount, a fourth lens, carried by the movable mount adjustable to and from the three fixed lenses along the axis thereof, a pointer and a focusing scale, one located on the barrel and the other on the movable mount, and means including a stop for limiting the movement of the movable mount relative to the fixed barrel, the range of focus of the camera being included in the movement of the mount.

1,394,079. APPARATUS FOR USE IN CALIBRATING AND RIFLING THE BORE OF FIREARMS. Rainer Fuchs, Billancourt, France, assignor to Louis Renault, Billancourt, France. Filed June 23, 1917. Serial No. 177,548. 2 Claims. (Cl. 89—28.1.)



1. In an apparatus for riding gun barrels, the combination with an operating mechanism, of an operated member having formed integral therewith a series of toothed disks of increasing diameter, arranged intermediate the ends thereof, a forwardly extending portion adapted to be connected with the operating mechanism for drawing said member longitudinally through the gun barrel, and a helicoidally grooved cylinder formed on the rear of said operated member, the helicoidal grooves of said cylinder adapted to be engaged by a stationary element extending into said grooves, whereby said cylinder and its associated cutters will be rotated during the longitudinal movement.

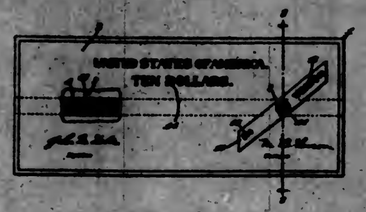
1,394,080. GEARING. Rufus A. Gardner, Ballston Spa, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 20, 1920. Serial No. 397,583. 3 Claims. (Cl. 74—7.)

1. In a gearing, the combination of a pinion, and a plurality of gear wheels, meshing therewith, each of said gear



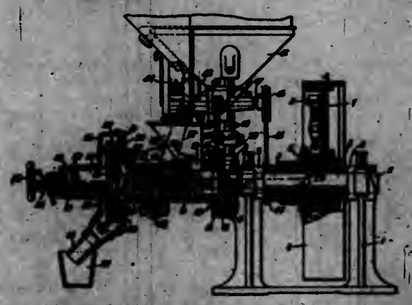
their peripheries, the spaces between the disks of the respective gear wheels being staggered relatively to each other.

1,394,081. CURRENCY. William Henry Griffiths, Farmington, Iowa. Filed May 26, 1921. Serial No. 472,894. 4 Claims. (Cl. 283—66.)



1. A piece of currency comprising a body and a seal, the seal including mechanically connected, freely separable parts, one of which is mounted permanently on the body.

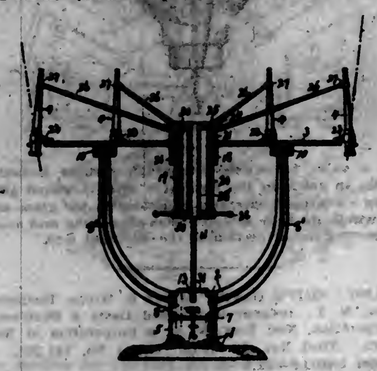
1,394,082. NUT-MILL. Richard A. Gardner, Brooklyn, N. Y., assignor to Jabez Burns & Sons, a Corporation of New York. Filed Sept. 4, 1920. Serial No. 408,124. 15 Claims. (Cl. 83—8.)



1. A mill for grinding peanuts and the like into smooth paste comprising a frame carrying a hopper for nuts, a feed screw casing having internal longitudinal grooves with an opening to receive the nuts to be ground, a slow pitch feed screw in said casing codperating with said longitudinal grooves to feed the nuts forward under pressure, an annular flat grinder carried at the end of the feed screw, a stationary annular disk grinder codperating there-

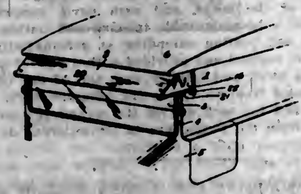
with, means for rotating said thrust of the grinders, the end of the feed casing, the feed screw and the grinders being formed to provide a progressively narrowing passage to the flat faces of the grinders to maintain the nuts under increasing pressure between the feed screw and the periphery of the grinders, and the flat faces of the grinders having non-radial grooves therein, whereby pressure is maintained on the nuts by the feed to and through the grinders without overheating and without excessive thrust.

1,394,083. GUN-MOUNTING. Ira Herman Griffiths, Syracuse, N. Y. Filed Aug. 2, 1918. Serial No. 247,914. 1 Claim. (Cl. 89—37.)



In a gun mounting, the combination of a base, a frame journaled on the base to rotate about a vertical axis and provided with means for supporting an attendant near said axis, a gun carrier hinged to the frame to swing about a horizontal axis, means for locking said carrier in different positions of adjustment about said horizontal axis, a sighting tube mounted on the carrier to swing therewith to and from a position coaxial with said vertical axis a plurality of guns pivotally mounted on the carrier in uniformly spaced relation circumferentially around the sighting tube to swing toward and from the axis of said sighting tube, and means for adjusting said guns about the axis of their respective pivots.

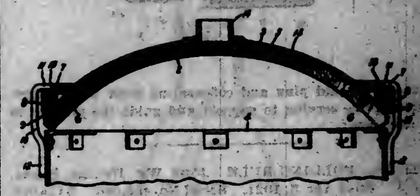
1,394,084. WINDSHIELD ATTACHMENT. George G. Gross, Columbus, Ohio. Filed Oct. 11, 1920. Serial No. 415,979. 2 Claims. (Cl. 296—95.)



1. A protecting attachment for wind shields comprising a panel member disposed to extend parallel with and on a vertical angle to the upper portion of a wind shield, a bracket structure operable to adjustably connect the attachment with the frame of the wind shield, a gutter disposed to extend longitudinally with the lower edge of the panel member, side members provided at the ends of the panel, gutters provided upon the lower edges of said side members and arranged in communication with the gutter of said panel, and a pivotal connection between said side

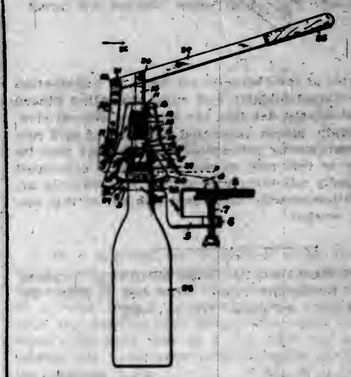
members and bracket structure, said connection serving to permit of lateral adjustment on the part of said side members to regulate the discharge of water from the gutters thereof.

1,394,085. METAL MIRROR. Cromwell A. B. Halvorson, Jr., Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Mar. 9, 1920. Serial No. 364,537. 14 Claims. (Cl. 204—8.)



1. The process of producing a mirror of the desired shape which consists in chemically depositing silver on a form of highly polished glass, reinforcing the chemically deposited silver by an electrolytic deposit of silver and by an electrolytic backing of copper superimposed upon the electrolytic silver, stiffening the silver and copper deposits by applying a backing of cementitious plastic material to the copper, and removing the mirror from the form.

1,394,086. SEALING-CAP-ATTACHING APPARATUS. William Heckmann, Irvington, N. J. Filed Apr. 20, 1921. Serial No. 462,792. 8 Claims. (Cl. 226—84.)



1. A sealing cap attaching apparatus comprising a base formed with a receiving opening for the reception of the neck-portion of a bottle, a bottle-holder comprising a pair of pivotally connected bottle-clamping jaws adapted to embrace the neck-portion of the bottle, means for pivotally attaching one of said jaws to said base, a plunger movably disposed above said base for attachment of a sealing-cap to the bottle, and means for actuating said plunger.

1,394,087. CUT-OUT SWITCH. Walter A. Heinrich, St. Louis, Mo., assignor to W. N. Matthews and Brother, Inc., St. Louis, Mo., a Corporation of New Mexico. Filed May 17, 1918. Serial No. 235,172. 6 Claims. (Cl. 200—111.)

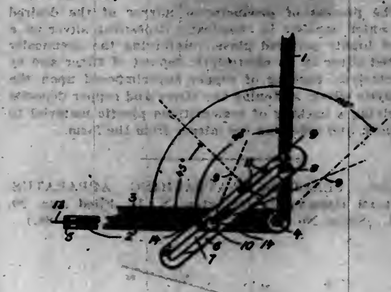
6. The combination of an electromagnet, of a plunger frictionally arranged therein and carrying a resistance

block at its end, means for normally supporting said plunger, a metallic plug mounted in said support, said contacts



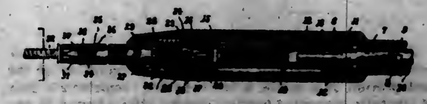
mounted on said plug and cooperating with the plunger, said contacts serving to support and guide the plunger in its movement.

1,394,088. FOLDING RULE. JOHN WM. HULLER, Buena, N. J. Filed Apr. 6, 1921. Serial No. 459,044. 2 Claims. (Cl. 33—75.)



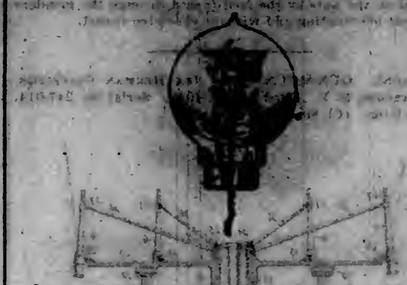
1. In a device of the character set forth, in combination with a conventional foldable foot rule, presenting hinged sections, an elongated flat link bar having a central elongated slot therein, means associated with one of said rule sections for stationarily fulcruming said link bar near its one extremity to this rule section, and means associated with the hingedly adjoining rule section for shiftably articulating and temporarily fixing said link bar to this second said rule section.

1,394,089. POWER-DRIVEN SCREWDRIVER. CLAUDE A. HEAMAN, Bridgeport, Conn. Filed Oct. 1, 1919. Serial No. 327,782. 4 Claims. (Cl. 144—32.)



1. A power driven screw driver comprising a cylindrical hand piece, a spindle mounted in the hand piece and having a pocket in one end, a split bushing mounted in the pocket and having a tapered hole therein, a driven spindle journaled in the hand piece and having a tapered end to engage the inner wall of the bushing and provided with a key to engage between the two bushing members, a spring positioned upon the driven spindle to normally hold the driven spindle out of engagement with the bushing and driving spindle, and means for operatively connecting the driven spindle with the handle when disconnected from the driving spindle.

1,394,090. [illegible]. Filed May 10, 1920. Serial No. [illegible]. 1 Claim. (Cl. 200—67.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



In a valve for wireless telegraph systems including a bulb, an anode in the form of a spirally wound plate having an integral extension embedded in the glass support within the bulb, said extension supporting said anode and serving for connection to the electrical lead.

1,394,091. SHIP'S DAVIT. HARRY B. HILLS, Tompkinsville, N. Y., assignor to Steward Davit & Equipment Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 28, 1919. Serial No. 341,261. 1 Claim. (Cl. 9—22.)

In combination, pair of life boats; a ship's davit at each end of the boats, and each davit comprising a support and a boom movable inboard and outboard and having its end portion extending at substantially right angles to its support and provided with a pair of supporting eyes; a block and fall for each end of one life boat and suspended from an eye in the adjacent davit, and a block and fall for each end of the second life boat and suspended from the second eye in the adjacent davit.

1,394,092. MACHINE FOR MAKING HOLLOW GLASSWARE. EDWARD S. HUTTON, Lapel, Ind. Filed Aug. 2, 1919. Serial No. 314,853. 21 Claims. (Cl. 49—9.)

9. A machine for making hollow glass ware, including a rotary table, a mold holding frame mounted in said table with guideways in the sides thereof, a blank mold, a blow mold, each of said molds being formed of two vertical halves, stationary means on the outer end of said frame for securing the two outer halves of said molds, a block movable in said frame for holding the two inner halves of said molds, a rod connected with said inner block for moving the inner halves of the molds



the machine for engaging the inner end of said rod and forcing it inwardly and outwardly.

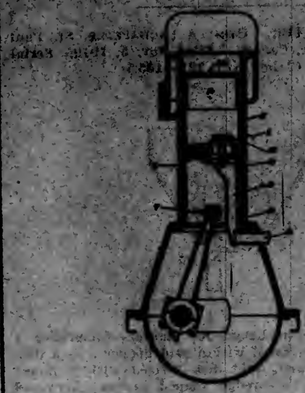
1,394,093. KNITTED CAP AND METHOD OF MAKING THE SAME. MARIE K. JUHL, Milwaukee, Wis., assignor to Wisconsin Knitting Works, Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 8, 1921. Serial No. 459,606. 8 Claims. (Cl. 2—167.)



1. A knitted cap comprising a body portion, a head encircling band secured to the lower edge of the body portion and having portions each knitted in opposite directions and folded upon themselves adjacent the front of said cap to form a peaked portion.

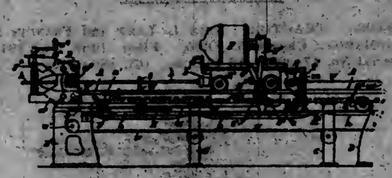
1,394,094. INTERNAL-COMBUSTION ENGINE. EDWIN T. EARNSHAW, Denver, Colo. Filed May 20, 1919. Serial No. 298,022. 2 Claims. (Cl. 123—74.)

In an internal combustion engine having a sliding piston with an inherent compression chamber, the combination of a head for said compression chamber having an orifice therethrough, valve means mounted in said orifice



to support the head, said pillow bracket constituting a conduit to supply fuel to the said compression chamber.

1,394,095. ROLL-WINDING MACHINE. CONRAD KNOTH, Hillside, N. J., assignor to Hyatt Bearings Division, General Motors Corporation, Harrison, N. J., a Corporation of New York. Filed Aug. 20, 1920. Serial No. 402,881. 12 Claims. (Cl. 153—67.)



1. In a machine for winding a strip, into a spirally wound roll, the combination, with a suitable bed and means for moving a mandrel lengthwise over the same, of a head having compression-rolls to bend the strip upon the mandrel, and compression-levers extended backward from such rolls in a line with the mandrel, thus leaving the compression-rolls accessible at either side of the mandrel.

1,394,096. TOY. EDITH LACEY, New York, N. Y. Filed May 20, 1920. Serial No. 382,719. 1 Claim. (Cl. 46—40.)



In a toy, the combination with a supporting string extending parallel to the floor, of a figure resting upon the floor and supported at its upper end by the string, said figure being maintained in an inclined position,

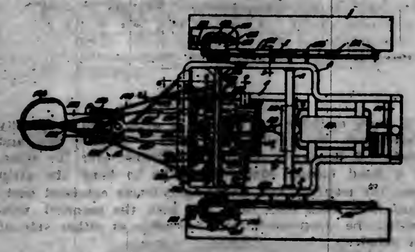
whereby the figure will be caused to progress longitudinally of the string by vibrating the same horizontally, substantially as and for the purposes set forth.

1,394,097. PLANTER. CYRILLE LACHAPELLE, St. Paul l'Ermite, Quebec, Canada. Filed Nov. 6, 1919. Serial No. 335,911. 1 Claim. (Cl. 221—135.)



A seed feeding attachment for planters comprising a hopper, a shaft journaled within said hopper a feed disk carried by said shaft, said disk formed with a flange having a plurality of wedge shaped recesses arranged therein, pockets formed in said flange and communicating with said recesses, a tube arranged within said hopper and provided with a funnel shaped mouth at its upper end adapted to receive seeds discharged from the pockets of said feed disk, an auxiliary tube also arranged within said hopper adjacent said first tube said auxiliary tube having its upper end formed with a funnel shaped mouth, and its lower end opening within and adjacent the bottom of the hopper, said auxiliary tube being adapted to receive over accumulation of grain carried upwardly by said disk and discharge it at the bottom of said hopper.

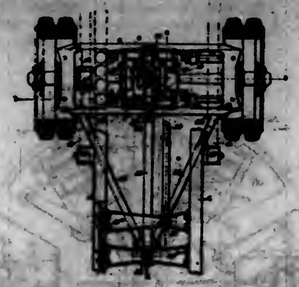
1,394,098. TRACTOR. JOHN L. LAKE and FRANCIS D. MCMAHON, Cleveland, Ohio. Filed June 14, 1917. Serial No. 174,686. 15 Claims. (Cl. 180—17.)



1. In apparatus of the character set forth, the combination of a motor, a traction wheel, an internal and an external gear through which said wheel may be driven, a shaft, driving connections between the shaft and motor, a pinion loose on the shaft and in mesh with one of said gears, a second pinion non-rotatable but slidable upon the shaft into and out of mesh with the other gear, said pinions having clutch faces arranged for engagement with each other, and mechanism for shifting the second pinion.

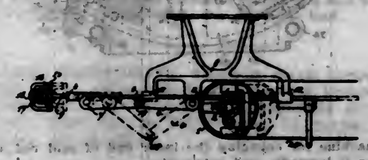
1,394,099. MOTOR-VEHICLE AND AXLE THEREFOR. JOHN M. LANEMAN, New York, N. Y. Filed Dec. 2, 1918. Serial No. 264,890. 6 Claims. (Cl. 180—73.)

2. A power axle for motor vehicles comprising a rectangular frame having two oppositely disposed side members and two end members only, an element carried by the frame at its center, a plurality of chined axle



shafts carried in the center and end members of the frame and a wheel carried by each axle shaft.

1,394,100. INTERMEDIATE BELT-GEARING. OSKAR LEINBOCK, Gottleuba, Germany. Filed June 12, 1920. Serial No. 388,694. 2 Claims. (Cl. 64—32.)



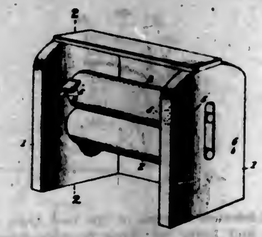
1. In an intermediate belt gearing having its intermediate shaft mounted in displaceable bearings for tightening and loosening the driving belt, a fast and loose pulley, a driving belt, bearings, an intermediate shaft, adapted to slide in said bearings, a toggle joint lever, means for connecting the same to said bearings, means for interconnecting said bearings, said intermediate shaft and said pulley in such a manner that the movement of the toggle-joint-lever in downward direction results in a respective movement of the said bearing, said shaft and said pulley, and thereby in a loosening of the driving belt, whereas a movement of the toggle-joint-lever in opposite direction which will be as well transmitted to the said bearing, said intermediate shaft and said pulley results in a retightening of the belt.

1,394,101. ELECTRIC HANDLAMP. BERT AUSTIN LITTLE, Tulsa, Okla., assignor of one-half to J. W. Dodge, Tulsa, Okla. Filed Sept. 8, 1919. Serial No. 322,353. 2 Claims. (Cl. 240—8.5.)



2. In a device of the kind described, the combination of a tubular casing adapted for the reception of a battery, a stop therein adjacent to one end, a conical coil spring hinged thereto at the other end, a lamp secured to said tubular casing at said other end, a battery within said casing between said stop and said coil spring, and suitable electrical connectors and a switch between said battery and said lamp; said conical coil spring forming part of said line of connectors for forming contact with the lamp and being adapted to be swung on its hinge out of the way to permit the insertion and withdrawal of said battery.

1,394,102. ROLL-SCRAPER. TERENCE MCCAULEY, Warren, Ohio. Filed Jan. 27, 1921. Serial No. 440,475. 1 Claim. (Cl. 80—1.)

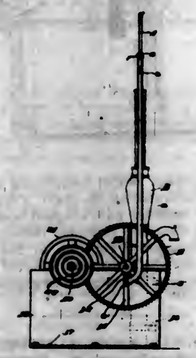


In a device of the class described, a frame, pairs of rolls mounted therein, and arranged for coöperation with one another, pairs of scrapers pivotally mounted in said frame and directed inwardly for contact with the ends only of said rolls, one pair of said scrapers being positioned for coöperation with each roll, and means for adjustably retaining said scrapers in position.

1,394,103. METHOD OF PREPARING STEEL FOR CASTING. JOSEPH B. MCGLYNN, Cleveland, Ohio, assignor to The West Steel Casting Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 17, 1919. Serial No. 290,761. 1 Claim. (Cl. 75—44.)

The method of preparing molten steel for casting, which comprises melting a charge of steel containing scrap steel, in a suitable furnace, refining the same until the carbon and silicon are present in desired proportions and then introducing the molten metal from the furnace into a converter, and blowing the same until the carbon and silicon content and manganese content have been reduced to the amount desired.

1,394,104. WINDMILL-POWER ENGINE. STANLEY E. MARTIN, Bloom, Kans. Filed June 21, 1918. Serial No. 241,185. 3 Claims. (Cl. 74—14.)



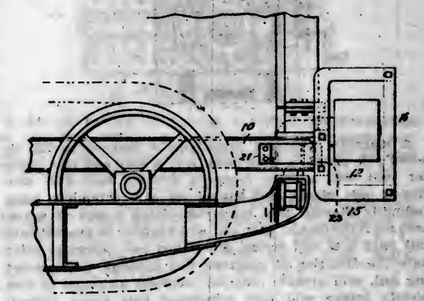
1. In a device for operating machines by windmill power, the combination with an ordinary vertically reciprocable operating rod of a windmill, an ordinary windmill pump, of power transmitting structure including a relatively large gear, a connecting rod adjustably connected to said gear, a coupling upon the lower end of said vertically reciprocable rod and provided with a transverse extension adapted for detachable connection with said connecting rod to rotate the gear upon reciprocation of the vertically reciprocable rod and a power take off member carried by said structure.

1,394,105. JAR-HOLDER. NATHAN T. MERCALF, Kingston, N. Y. Filed May 21, 1920. Serial No. 383,234. 2 Claims. (Cl. 81—3.3.)



1. A jar holder comprising in combination, a suitable base, an ear fixed to one end of said base, a bolt passing through said ear, a holder ending in two parallel outstanding arms held to said bolt, a U-shaped sheet metal member having its ends fixed to said arms the intermediate portion of said member being narrowed at opposite points, a wing nut on said bolt, a second holder fixed to said base having two outstanding arms extending in parallel spaced relation, a clamp fixed to said last mentioned arms, and a U-shaped band held to said first mentioned parallel arms, having oppositely positioned slots intermediate of its ends containing said narrowed portions, all arranged as and for the purpose set forth.

1,394,106. BELT-GUIDE FOR TRACTORS. MATHEW B. MORGAN, Cleveland Heights, Ohio, assignor to The Cleveland Tractor Company, Euclid, Ohio, a Corporation of Ohio. Filed Sept. 15, 1919. Serial No. 323,695. 1 Claim. (Cl. 74—51.)



A belt guide, comprising a rectangular frame and two members for connecting said frame to the tractor frame in operative position with respect to said belt pulley, one of said members having a T-shaped front end, a laterally bent body and a foot at the rear end adapted to be connected with a frame member of the tractor, and a U-shaped member, one of whose legs is adapted to be connected with the same side frame member of the tractor,—the other leg of said U-shaped member and the T-shaped head of the other member being connected with the rear vertical side of said rectangular frame.

1,394,107. DIE-HEAD FOR SCREW-CUTTING. FREDERICK MOUNTFORD, Northfield, and ROBERT STANDEN, Small Heath, Birmingham, England. Filed July 7, 1919. Serial No. 309,118. 2 Claims. (Cl. 10—96.)

1. An improved die head for screw-cutting machines having a chamber at the front to accommodate a spigot or stem of the die holder, a spring in said chamber for arrangement around the spigot or stem for moving the holder axially and also having a circumferential groove in the periphery, a circumferential spring arranged in said

groove and adapted to rotate and upon the clockwise movement takes place between the die head and the



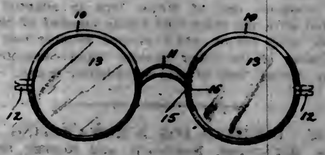
die holder, and a cylindrical cover inclosing the parts of the said die holder and the said groove and circumferential spring.

1,394,108. FOUR-POLE MAGNETO-GENERATOR. HERMAN C. MUELLER, Milwaukee, Wis. Filed Dec. 24, 1917. Serial No. 208,704. 1 Claim. (Cl. 171—209.)



A magneto generator comprising a magnet having opposed pole pieces, a generating coil, a core and pole pieces for said coil, a rotor mounted between said first mentioned pole pieces and having its axis extending longitudinally thereof, said rotor comprising a pair of spaced arcuate inductors at each end and adapted to magnetically link said first and second mentioned pole pieces to alternate the direction of magnetic flux through said generating coil, said arcuate inductor members arranged to completely bridge said first mentioned pole pieces immediately following each change of flux through said generating coil.

1,394,109. EYEGLASSES. OTTO NARUM, Staunton, Va. Filed Feb. 1, 1919. Serial No. 274,545. 1 Claim. (Cl. 88—47.)



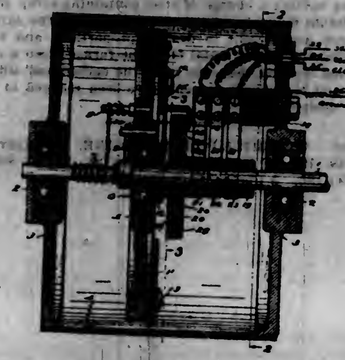
A framed eyeglass having a circular rim and lens, and coacting formations of rim and lens that positively hold the lens from turning in the rim, the rim having a channel that receives the circumference of the lens, and having in said channel a rib, the lens having in its periphery a notch that fits said rib, the rib being split on the side opposite said notch and rib.

1,394,110. ANTIFRICTION-BEARING. JOHN G. HENNING, Rockford, Ill. Filed July 28, 1919. Serial No. 313,591. 4 Claims. (Cl. 64—36.)



1. An anti-friction bearing of the ball type, consisting of an outer and inner retaining member concentrically spaced apart and having coinciding race-ways on their adjacent surfaces, the outer retaining member having a tangentially disposed opening extended therethrough and located between its race-ways, a series of balls located within said race-ways of the retaining members and a broken resilient member located against the inner periphery of said outer member between the race-ways thereof after said balls have been inserted in place.

1,394,111. ELECTRIC SWITCH FOR OPERATING AUTOMOBILE SPEED-SIGNALS. ALFRED W. OLDS, Windsor, Conn. Filed Oct. 9, 1920. Serial No. 415,843. 7 Claims. (Cl. 200—88.)

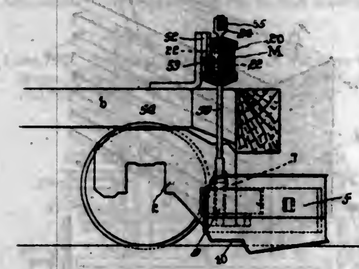


1. An electric signal switch comprising a rotary shaft, a member loosely mounted on the shaft, a conductor loosely mounted on said member and adapted under centrifugal action to assume different positions radially of the shaft according to the speed of rotation of the member, contacts rotatable with the shaft and adapted to be engaged by said conductor, and brushes in engagement with said contacts.

1,394,112. RAILWAY SNOW-FLANGER. EBEN RAY PACKER, New Rochelle, N. Y. Original application filed June 10, 1920, Serial No. 388,143. Divided and this application filed Jan. 12, 1920. Serial No. 350,843. 4 Claims. (Cl. 37—37.)

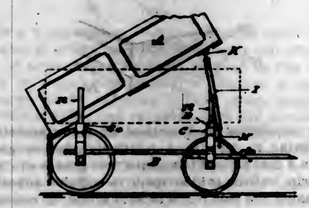
1. In a device of the character described, the combination of a railway vehicle, supporting members attached thereto at the opposite sides thereof and provided with guide ways, a carrier bar transversely arranged and fitted to the guide ways and capable of elevating and depressing movement therein, deflecting means supported upon the carrier bar to be movable therewith and operating means therefor comprising a motor positioned thereabove and

having a cylinder and piston member, one of said members being rigidly supported and the other of said motor members being movable with relation thereto in a vertical direction, a transversely arranged lifting rod posi-



tioned above the motor and carried by the movable member thereof and connections from said rod to the elevating bar whereby the latter is operated, substantially as described.

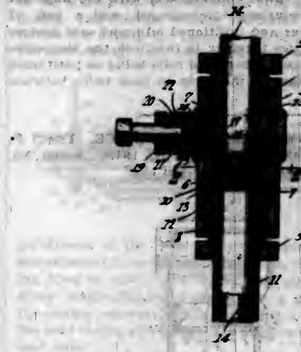
1,394,113. DUMPING-WAGON. HARRY PAGE, Newark, Ill. Filed Aug. 30, 1919. Serial No. 320,768. 3 Claims. (Cl. 298—19.)



1. In a device of the nature described, the combination, with the running gear of a vehicle, of a tiltable wagon box mounted on said running gear, and mechanism for tilting said wagon box, said mechanism including a base, end brackets extending from one side of said base, said end brackets having each a journal bearing, a further bearing bracket medially of said base, said latter bracket having a journal bearing in axial alinement with said end bearings, a screw-spindle rotatably mounted in said bearings, said screw-spindle having a right and a left thread, a nut on each of said threads and in screw-threaded connection therewith, a pair of links pivotally connected at one of their ends to said nuts, a track rail secured transversely to said wagon box and adapted to cooperated with the extremities of said links, said links having curved portions constructed to slide upon the medial bearing bracket, to cause the ends of the links that coöperate with said track rail to move upwardly to tilt said wagon box, as described.

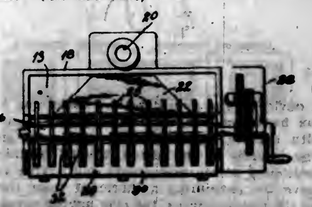
1,394,114. BRASS LINER STUFFING-BOX HEAD. ALBERT D. PURTLE, Marietta, Ohio. Filed Jan. 22, 1920. Serial No. 353,352. 4 Claims. (Cl. 286—31.)

2. A stuffing box head having a central opening, a liner having one of its ends secured within the central opening, said central opening merging into enlarged openings, a polished rod operating through the stuffing box head and through the liner, means positioned within the enlarged openings for providing fluid tight connections between



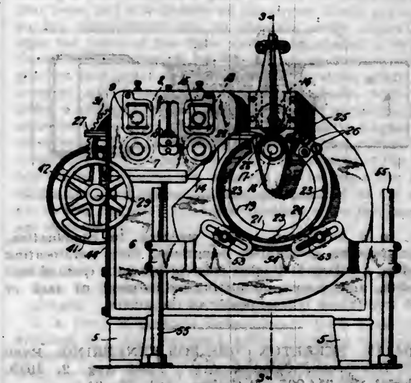
the liner and polished rod, and means for securing the polished rod to the stuffing box head.

1,394,115. OIL-BURNER. FRANCISCO A. QUIROZ, Mexico, Mexico. Filed Feb. 10, 1920. Serial No. 357,668. 5 Claims. (Cl. 158—28.)



1. An oil burner comprising a trough for containing fuel oil, disks rotatably mounted upon the trough, portions of their peripheries immersed in the fuel oil and means for rotating the disks.

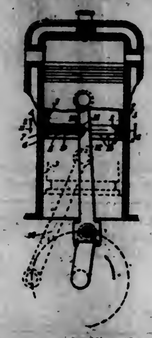
1,394,116. MACHINE FOR FORMING TUBULAR BODIES. EMIL RENDANO, Brooklyn, N. Y., assignor to Forbes Tubular Products Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 9, 1920. Serial No. 372,423. 8 Claims. (Cl. 113—35.)



1. In a machine of the character described, means for bending the edges of a strip at an angle to the strip,

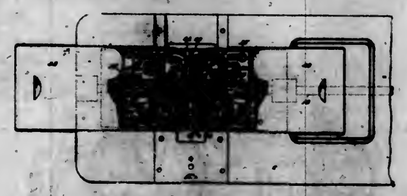
a device including a ring having an inclined edge and a rigid rib spaced from said ring for forming the strip longitudinally into spiral convolutions with the adjacent edges of the convolutions interengaged, and a pair of rolls geared together and positioned adjacent said devices for pressing the edges together to interlock the respective convolutions with each other, said rolls being so positioned as to cause the edges of the strip to pass twice between them.

1,394,117. ENGINE-LUBRICATING DEVICE. PERCY F. RICE, Tustin, Calif. Filed Oct. 21, 1919. Serial No. 332,145. 6 Claims. (Cl. 74—100.)



6. A device of the class described combining a cylinder, a piston having a peripheral ring groove near its outer end with orifices communicating with said groove and with the interior of the piston, a split contractile wipe ring positioned within said groove and having an annular oil groove for entraining a lubricant from the cylinder walls to the piston orifices, the ring having opposed angled ends forming a wedge throat, a wedge element adapted to be translated in said throat to expand the ring, and yielding means connecting the wedge element and the connecting rod.

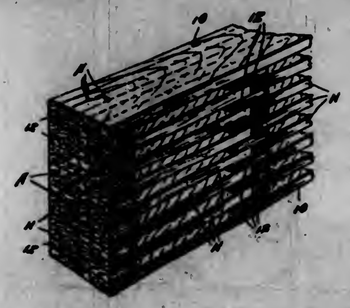
1,394,118. MULTIPLE-NEEDLE SEWING-MACHINE. JOHN C. RINGE, Stratford, Conn., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Oct. 8, 1918. Serial No. 257,378. 7 Claims. (Cl. 112—167.)



1. In a lock-stitch sewing machine, in combination, stitch-forming mechanism comprising four reciprocating needles, a rotary loop-taker cooperating with each of said needles, and means permitting adjustment of each of said loop-takers independently of the others.

1,394,119. SKELETON CORE FOR VENEERING. BYRD C. ROCKWELL, Camden, Ark. Filed Aug. 2, 1919. Serial No. 314,907. 2 Claims. (Cl. 20—91.)

1. A core for veneering comprising a pair of facing stripe, parallel series of relatively short intermediate stripe arranged between said facing stripe, the intermediate stripe in alinement having their ends abutting, and combined splicing and spacing members arranged be-



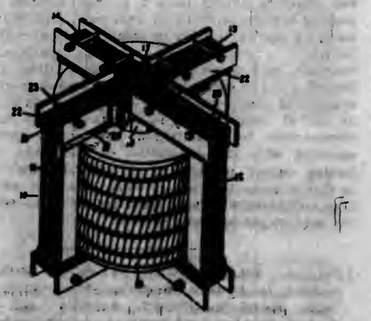
tween and overlying the abutting end portions of said intermediate stipe, all of said pieces being secured together by an adhesive, and said core being susceptible of longitudinal division to form skeleton slabs.

1,394,120. VENEERED FLOORING-LUMBER AND METHOD OF MANUFACTURING SAME. BYRD C. ROCKWELL, Camden, Ark. Filed Dec. 20, 1919. Serial No. 346,404. 6 Claims. (Cl. 144—309.)



1. The hereindescribed method of manufacturing lumber consisting in forming a relatively shallow groove or channel in a core strip, fitting into said groove or channel a veneer strip, uniting said stripe by a suitable adhesive, and then finishing the side edges of said stripe by removing the ledges of the core on each side of the veneer strip.

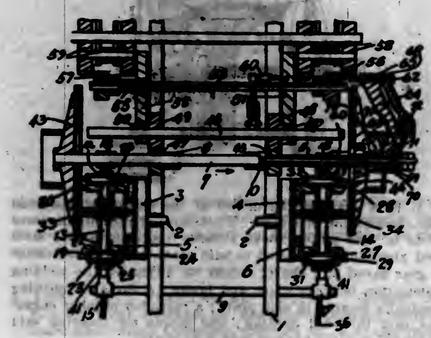
1,394,121. ELECTRICAL APPARATUS. IVANHOE H. SCLATER, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed June 12, 1919. Serial No. 303,617. 6 Claims. (Cl. 175—356.)



1. The method of constructing distributed cores with four outer legs for a line of electrical apparatus rated for varying duties and having interlocking groups of lamina-

tions arranged to have their coil supporting edges lying on a circle, which consists in making a few standard sizes of punchings, assembling said different sized punchings in groups adapted to be dovetailed at right angles with other groups, and building each group out of some of each sized punching, one portion of each group being varied in dimensions to correspond with the ratings desired.

1,394,122. TRANSMISSION. HENRY FAUCETT SHANNON, Megee, Saskatchewan, Canada. Filed May 3, 1920. Serial No. 378,535. 6 Claims. (Cl. 74—26.)



1. In a transmission, the combination with the engine shaft and fly wheel mounted upon each end of the engine shaft, of beveled friction gears secured to the outer face of each fly wheel, counter shafts mounted at each end of the engine shaft, opposing beveled gears mounted upon each counter shaft and engaging with the beveled gears of the fly wheels at diametrically opposite points, clutch mechanisms for engaging the counter shaft, beveled gears engaging alternately with the counter shafts, a peripheral friction gear feathered upon each counter shaft and face friction gears rotatably mounted upon a suitable supporting shaft in engagement with the peripheral friction gears and means for transmitting motion from the face gears to the point desired.

1,394,123. FASTENER FOR PAPERS AND OTHER MATERIALS. CEDRIC PUTNAM SIBLEY, Detroit, Mich. Filed Aug. 7, 1920. Serial No. 401,934. 5 Claims. (Cl. 85—40.)



1. A fastener for papers and other objects, having one end closed and the remainder divided longitudinally into stripe of even number and forming a substantially cylindrical collapsible barrel and a laterally spread flange or base, there being excisions in the barrel adjacent to the closed end to facilitate the collapsing of the barrel.

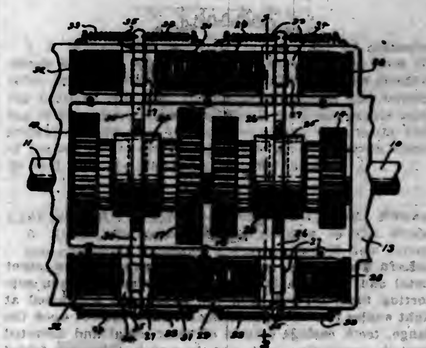
1,394,124. TUBE-CUTTING DEVICE. GEORGE W. SIMPSON, Bristow, Okla. Filed June 27, 1921. Serial No. 480,773. 3 Claims. (Cl. 81—105.)

1. In a tube cutting device, a casing having longitudinally disposed slots between its ends, a sliding member projecting through one of the slots, a cutter wheel rotatably mounted on the sliding member, means for urging the sliding member inwardly, blocks disposed at acturate angles to the sliding member extending through other slots of the casing, anti-friction rollers journaled in the said blocks, means for urging the blocks inwardly, a conical wedge in the said casing, rods connected thereto and extending lon-



gitudinally of the casing, a screw head to which the rods are attached, a screw extending from the head and projecting from an end of the casing, and means for moving the screw longitudinally of the casing, a guide for supporting the casing concentric to a tube, and a gas ring secured to the said casing and adapted to hold the opposite end of the said tube.

1,394,125. TRANSMISSION MECHANISM. CHARLES E. STAILEY, EMMER H. BLAZER, and HERMER W. MONSON, Portsmouth, Ohio. Filed June 29, 1920. Serial No. 392,699. 6 Claims. (Cl. 74—59.)

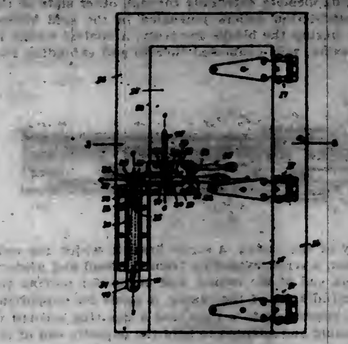


2. The combination of axially alined drive and driven shafts, a countershaft, a gear fast on the drive shaft, a gear loose and non-slidable on the driven shaft, gears fast on the countershaft and in constant mesh respectively with the gears of the drive and driven shafts, a driving clutch member slidable on the driven shaft between the gear on said shaft and the gear on the drive shaft, and movable selectively into locking engagement with said gears, a shifter arm for the clutch member projecting from opposite sides thereof, a plurality of electro-magnets on opposite sides of each projecting end of the shifter arm, armatures for the magnets carried by said ends of the arm, controlling means for the magnets on the respective sides of the arm, and springs connected oppositely to the arms for moving the same to neutral position when the magnets are deenergized.

1,394,126. LATCH MECHANISM. FREDERICK SCHMIDGALL, Cincinnati, Ohio. Filed Mar. 29, 1921. Serial No. 456,609. 4 Claims. (Cl. 292—254.)

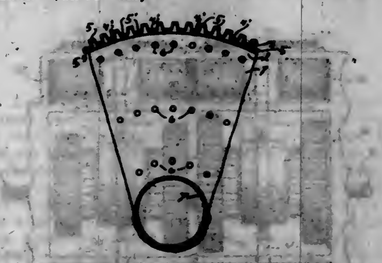
1. A latch mechanism comprising a latch plate to be attached to a door having a roller journaled thereto and projecting into the path of a keeper yieldingly mounted upon the door frame, a latch lever movably mounted upon said latch plate and provided with a nose movable to and from said roller and having a recess to receive a portion of the face of said roller and a resiliently supported latch

longer having an upwardly directed nose with outwardly directed inclined faces at opposite sides thereof, the nose



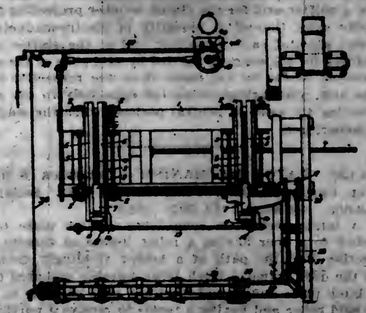
of said latch keeper being interposed between said roller and latch member to hold the door in closed position.

1,394,127. GEAR-WHEEL. CHARLES STOWN, Detroit, Mich. Filed July 27, 1920. Serial No. 399,263. 2 Claims. (Cl. 74—41.)



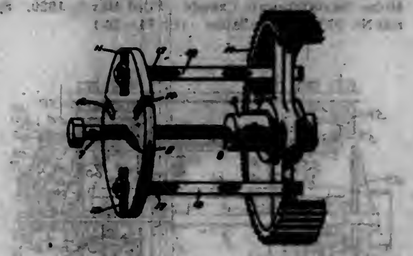
1. In gear wheel construction, a web made of sheet metal and having a hub and flange formed thereon, supporting teeth formed upon the flange and positioned at right angles thereto, mounting elements formed upon the flange, teeth casings formed of sheet metal and mounted upon the supporting teeth, and the securing elements folded over the edges of the casing and pressed firmly into the valleys between the teeth.

1,394,128. DOGGING MECHANISM FOR SAWMILLS. JOHN BROOMFIELD WEIR, Vancouver, British Columbia, Canada. Original application filed Aug. 16, 1916, Serial No. 250,144. Divided and this application filed Oct. 11, 1916. Serial No. 257,607. 5 Claims. (Cl. 143—125.)



1. A mechanism of the character described, including in combination, a saw mill carriage, dogging mechanism thereon, including a shaft and fluid pressure means for moving said shaft, an additional shaft operatively connected to said first shaft to move in opposition thereto, and a dog connected to one end of one shaft and a dog connected to the other end of the other shaft between which to secure a log.

1,394,129. GEAR-PULLER. ALFRED R. WICKERSHAM, Oakland, Calif. Filed June 2, 1919. Serial No. 301,564. 11 Claims. (Cl. 29—85.)



1. In a gear pulling device of the character described the combination of a plate; a plurality of radially disposed slots in said plate; hooks slidably retained in said slots and yieldingly connected to said plate, adapted to engage a gear keyed to a shaft; means for adjusting the yielding connection between plate and hooks; a threaded opening centrally located in said plate; a threaded member engaging said threaded opening; and means for rotating said threaded member against said gear shaft.

1,394,130. SODA-FOUNTAIN. FRANK T. WIECHERT, Lakewood, Ohio, assignor of one-half to George W. Wise, Cleveland, Ohio. Filed Sept. 22, 1920. Serial No. 411,894. 2 Claims. (Cl. 211—11.)



1. In a soda fountain, a vertical sheet-metal supporting structure including front, bottom, and end walls, means for supporting the bottom of said structure, a rectangular cooling compartment structure set into said supporting structure and attached to the walls thereof in a vertically inclined position, the lower inner longitudinal corner of said cooling compartment being attached to the front wall of said supporting structure at a distance above the bottom of said supporting structure, and the lower outer longitudinal corner being attached to the bottom wall of the supporting structure, said cooling compartment provided with a top member the front portion of which is in a horizontal plane and the rear portion inclining therefrom, openings in the horizontal plane portion and openings in the inclined portion of the top, and closure members for said openings.

1,394,131. REVERSING-GEAR. JACOB F. WOLLEMEN, Lockwood, Calif. Filed Dec. 6, 1919. Serial No. 343,420. 8 Claims. (Cl. 74—7.)

1. A reversing mechanism comprising a driven element; oppositely faced gears connected to the driven element;

a second set of gears in mesh with the first mentioned set, each meshing set being of the same ratio; a driving element; a pair of nested connecting elements connected to the second set of gears and aligned with the driving



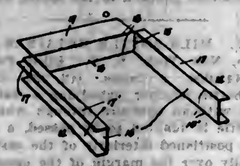
element; and means for operatively connecting either connecting element with the driving element whereby the driven element may be driven in either direction at the same speed.

1,394,132. ELECTRICAL SWITCH. GEORGE A. YANOCHOWSKI, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 16, 1917. Serial No. 162,368. 12 Claims. (Cl. 200—159.)



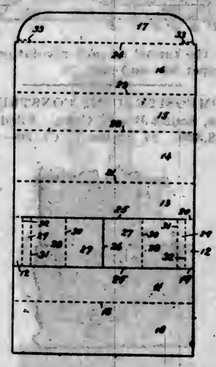
11. A device of the character described including a cylindrical supporting member having an orifice in one end thereof, an actuating member provided with a cylindrical portion adapted to fit into said orifice, a flange for said actuating member resting against said supporting member, a button connected to one end of said actuating member, a helical spring resting against said supporting member and against said button for maintaining said actuating member in position, a hollow stationary contact, and an enlarged end portion for said actuating member extending into said hollow stationary contact.

1,394,133. SHELF-ADAPTER. JOHN ZIMMERMAN, Jamaica, N. Y. Filed Feb. 17, 1921. Serial No. 445,744. 2 Claims. (Cl. 211—16.)



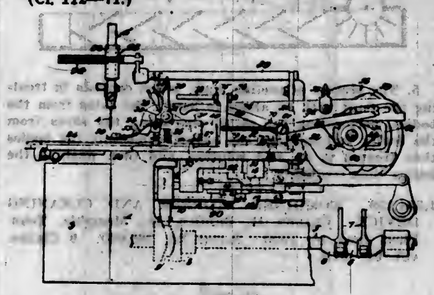
1. A shelf adapter comprising a plurality of panels arranged at right angles to one another and of a height substantially equal to the vertical height of the shelf space, and means cooperating with the otherwise free edges of said panels to hold them at a predetermined distance from the side walls of the shelf space.

1,394,134. FOLDING BOX. EDWARD ABELLS, Nutley, N. J. Filed Mar. 30, 1920. Serial No. 369,236. 3 Claims. (Cl. 229—16.)



1. A folding box comprising a plurality of connected panels arranged to be folded upon themselves to form the sides, top and bottom of the box and end panels comprising portions cut from the connected panels and remaining in hinged connection therewith, said end panels being foldable transversely to the other panels to form the ends of the box and to extend between two folded panels whereby said ends are removably fastened in place.

1,394,135. BUTTONHOLE-SEWING MACHINE. EDWARD B. ALLEN, Bridgeport, Conn., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Nov. 16, 1914. Serial No. 872,333. 9 Claims. (Cl. 112—71.)

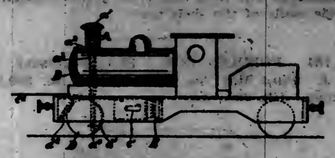


1. In a buttonhole sewing machine, the combination with stitch-forming mechanism, of a work-clamp, a buttonhole cutting device comprising cutter-carrying levers, a shaft, actuating elements thereon in permanent operative relation with said levers, a clamp-closing element upon said shaft, and a connection between the latter and the work-clamp.

1,394,136. TOY ENGINE. JOHN ALEXANDER BALLANTYNE, London, England. Filed Jan. 11, 1921. Serial No. 436,472. 3 Claims. (Cl. 46—47.)

1. The combination, with a toy locomotive engine provided with a tubular funnel and front wheels, of a tappet bar secured between the said front wheels, a vertical rod

arranged in the funnel in the upward path of the said tappet bar, and loose wool secured to the said rod and



projected from the funnel at each revolution of the wheels by the said tappet bar and rod.

1,394,137. COMPOSITE-JOINT CONSTRUCTION. ROBERT S. BLAIR, Sound Beach, Conn. Filed Dec. 23, 1915. Serial No. 68,329. 17 Claims. (Cl. 20—92.)



1. In joint construction, in combination a member provided with a tenon, a member provided with a mortise, in which said tenon lies, one of said members being wooden, and a member interlocking with said tenon and the walls of said mortise and formed of a metallic alloy fusible at a temperature below the scorching point of the wood.

1,394,138. PROCESS OF PEELING FRUITS AND VEGETABLES. WILLIAM DALE BOST and HARRY M. MILLER, Los Angeles, Calif.; said Bost assignor to said Miller. Filed Nov. 16, 1918. Serial No. 262,866. 7 Claims. (Cl. 146—14.)



5. The process of peeling fruit, which consists in treating the fruit with an alkali to loosen the skins from the bodies, perforating the skins, separating the skins from the bodies and washing the bodies, subjecting the bodies thus treated to an acid solution, and then washing the bodies thus treated.

1,394,139. COMBINED STOPPER AND CLEANING DEVICE. CLAUDE H. BARNET, Jr., Memphis, Tenn. Filed June 10, 1920. Serial No. 388,060. 9 Claims. (Cl. 91—67.1.)



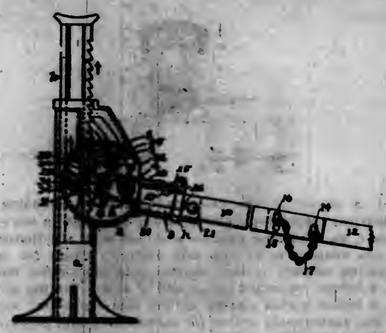
1. The combination with a container of a hollow cap or stopper having a closed top and a spring seated valve adapted to control communication between the interior of the container and the interior of the hollow cap or stopper.

1,394,140. FRAME FOR GAMES AND OTHER PURPOSES. STEWART BROWN, Chicago, Ill. Filed Feb. 28, 1921. Serial No. 448,738. 2 Claims. (Cl. 40—155.)



1. In a new article of manufacture, a frame comprising a glass front and a back, a ribbon provided with an aperture adjacent to one end and a tongue at the other end, and said ribbon bent adjacent to the sides thereof to obtain flanges, in combination with an additional ribbon of flexible material, said ribbon being formed up with said additional ribbon inclosed by said first named ribbon and said tongue engaged in said aperture to retain said ribbons in said formed up position, and means to hold said additional ribbon in spaced relation to said first ribbon, and between said front and back to retain said front and back in spaced relation.

1,394,141. JACK. JOHN H. BURKHOLDER, Ashland, Ohio, assignor to Hite Manufacturing Company, a Partnership composed of John H. Burkholder, Preston R. Countryman, and E. L. Kilheffner, Ashland, Ohio. Filed Aug. 29, 1919. Serial No. 320,570. 5 Claims. (Cl. 254—111.)



1. A lift jack as described, comprising a lift-bar and a pair of pawls adapted to engage the same having each a lateral finger on corresponding sides, a tripping device at the side of said pawls adapted to engage said fingers, a pivoted handle socket member carrying a spring in working relation with said device, and a handle having means adapted to flex said spring when the handle occupies a predetermined position in the socket member.

1,394,142. MILK-BOTTLE RETAINER. JAMES V. CANNIZZARO, New York, N. Y. Filed Feb. 7, 1921. Serial No. 443,004. 2 Claims. (Cl. 222—41.)

1. A milk bottle retainer embodying a casing provided in its bottom with an aperture through which the neck of a milk bottle is adapted to be passed, a plurality of pivoted flaps, positioned interiorly of the casing, and extending radially over the margin of the opening, for the purpose of gripping the neck of a milk bottle and precluding its surreptitious removal, a pivoted plate, one end of which extends beneath the pivoted flaps and a key operated bolt cooperating with the other end of the

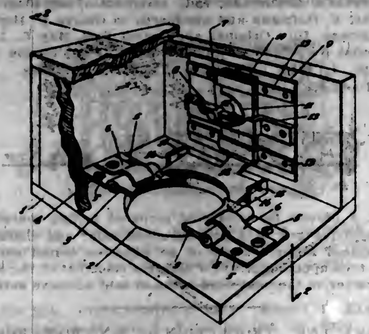


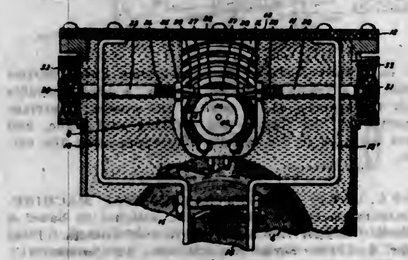
plate and adapted to operate upon the plate to tilt the flaps in a position to release the bottle.

1,394,143. X-RAY APPARATUS. WILLIAM D. COOLIDGE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 24, 1919. Serial No. 333,065. 3 Claims. (Cl. 250—84.)



2. An apparatus comprising the combination of an inclosed tank, a device therein evolving heat during operation, a body of oil substantially filling said tank, a receptacle in said tank containing both oil and a gas and a tube, connecting the body of oil within said receptacle with the main body of oil in said tank, said tube ending substantially at the center of said receptacle, the oil in said receptacle more than half filling the same thereby preventing access of gas to the end of said tube in any position of the device.

1,394,144. INCANDESCENT-CATHODE APPARATUS. WILLIAM D. COOLIDGE, Schenectady, N. Y., and EDWARD A. WAGNER, Fort Wayne, Ind., assignors to General Electric Company, a Corporation of New York. Filed Oct. 24, 1919. Serial No. 333,092. 6 Claims. (Cl. 250—84.)



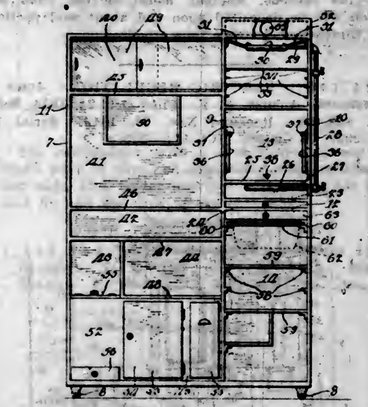
1. An electric apparatus comprising a high voltage transformer, an incandescent cathode tube connected to the high voltage terminals thereof, a sealed housing for said transformer and tube, a regulator within said housing for varying the current carrying capacity of said tube and means for changing the setting of said regulator from the exterior of said housing.

1,394,145. THERMIONIC DISCHARGE APPARATUS. WILLIAM D. COOLIDGE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 15, 1919. Serial No. 338,279. 8 Claims. (Cl. 250—34.)



1. An electron discharge apparatus comprising a metal tank, a high potential current source therein, an electron discharge device connected to said source and having one terminal connected to and projecting outside of said tank.

1,394,146. KITCHENETTE-CABINET. CLAUDE H. COOPER, Yonkers, N. Y. Filed Aug. 30, 1920. Serial No. 406,891. 1 Claim. (Cl. 45—16.)



In a device of the class described, the combination with a substantially rectangular upright wheeled unitary cabinet or casing having a vertical partition spaced at a greater distance from one of its side walls than from its other side wall, said cabinet having at least a pair of compartments located one above the other in the narrow compartment formed by the said partition and the walls of the cabinet, a door hinged at its upper edge to the upper front portion of the narrow upper compart-

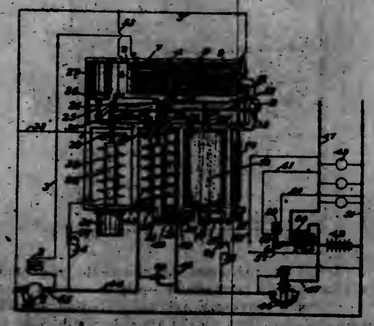
that on one side of the partition the products of combustion, said heating as caused to flow in such manner as to contact with the walls of said narrow compartments for the greatest amount of surface and thereby transmit the greatest amount of heat to said walls, a flue connected at its lower edge to the front lower portion of the last named compartment for vertical upward movement, and having at each of its side edges a flange to contact with the walls of said narrow compartments to prevent lateral displacement of articles supported by the last named flue when in its lowered position, a pair of burners located in the upper and lower portions of the last named compartment, means communicating with said burners to supply fuel thereto, means supported within the last named compartment above the lower burner thereof for the support of cooling utensils, and means mounted within the last named compartment below the upper burner for supporting articles to be cooked, the last named compartment having at its upper end a fume collecting receptacle provided with an outlet, a flexible pipe connected at one of its ends to said outlet, and leading at its other end to a point of discharge.

1,394,147. ELECTROLYTIC DEPOSITING OF METALS. FREDERICK D. CRABB, Montclair, N. J. Filed Dec. 18, 1920. Serial No. 431,691. 13 Claims. (Cl. 204—57.)



1. The process of forming an electrode which consists in providing a solution from which a metal may be deposited electrolytically, supplying a finely divided conducting material to said solution and causing the same to assume the form of a thin layer made up of the particles thereof, and causing a current of electricity to flow through said solution and said finely divided material; the direction of flow being such that said layer forms the cathode, whereby metal derived from said solution will be deposited upon and about said particles and a continuous electrode thus produced.

1,394,148. ELECTRIC REGULATION. JOHN L. CREVELING, Auburn, N. Y. Filed Oct. 24, 1914, Serial No. 868,403. Renewed Nov. 26, 1919. Serial No. 341,292. 96 Claims. (Cl. 171—229.)



1. In an electric system, a generator and means for regulating the same comprehending regulating means, means tending to operate the same, and means responsive to current fluctuations for controlling and also assisting said means.

1,394,149. PRODUCTION OF MINERAL-SURFACED ROOFING. ERNEST A. ANDERSON, Chicago, Ill., and OLIVER R. MAHAFFEY, Minneapolis, Minn., assignors of one-fourth to Carl F. Mathesius and one-fourth to George F. Hagens, Chicago, Ill. Original application filed May 5, 1913, Serial No. 766,092. Divided and this application filed Apr. 1, 1916. Serial No. 238,939. 2 Claims. (Cl. 91—68.)



2. A process for producing prepared roofing, consisting in applying grit of a predetermined color and character to spaced unlaced areas of an adhesive coated surface and then applying grit of a different color but of the same character to the uncovered areas of said adhesive surface.

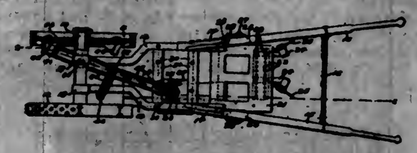
1,394,150. PRODUCTION OF M-NITRO-P-CRESOL. CLARENCE G. DERICK, WALTER M. RALPH, and LAWRENCE H. FLETT, Buffalo, N. Y., assignors to National Aniline & Chemical Co., Inc., New York, N. Y., a Corporation of New York. Filed Mar. 9, 1920. Serial No. 364,427. 12 Claims. (Cl. 23—24.)

1. The method of dinitrating p-toluidin, which comprises dissolving about 107 parts of p-toluidin in about 205 to 220 parts of sulfuric acid (66° Bé.), diluted with about 400 parts of water, whereby the heat of dilution of the sulfuric acid is utilized in dissolving the p-toluidin, adding about 1100 parts of water thereto, cooling the resulting solution, and adding sodium nitrite.

1,394,151. PROCESS OF TREATING WASTE SULFITE LIQUOR AND COMPOUND OBTAINED THEREFROM. WALTER H. DICKERSON, Muskegon, Mich., assignor, by mesne assignments, to Edward J. Koehler. Original application filed Mar. 28, 1914, Serial No. 827,948. Divided and this application filed Apr. 7, 1915. Serial No. 19,779. 6 Claims. (Cl. 149—4.)

4. As a new composition of matter, a solution of the organic constituents of waste sulfite liquor which is capable of increasing the insolubles of quebracho tanning extracts.

1,394,152. BEET-BLOCKER. STEPHEN DONNER, Toledo, Ohio, assignor of one-fourth to Charles W. Feigner, and three-fourths to Fred C. Balk, Toledo, Ohio. Filed Apr. 27, 1920. Serial No. 376,939. 8 Claims. (Cl. 97—45.)

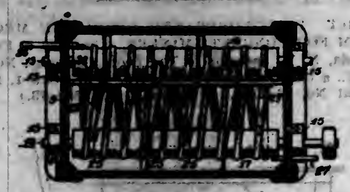


3. In a beet blocker, the combination, with carrier wheels, of a frame supported thereby, a blade movable bodily transversely of the path of the wheels, a carriage supported by the frame, and carrying said blade, and means actuated by the wheels for reciprocating the carriage.

1,394,153. WASHER-SATURATING MACHINE. CHARLES A. DORAN, Chicago, Ill., assignor to Bauer & Black, Chicago, Ill., a Corporation of Illinois. Filed Apr. 1, 1918. Serial No. 225,909. 12 Claims. (Cl. 8—19.)

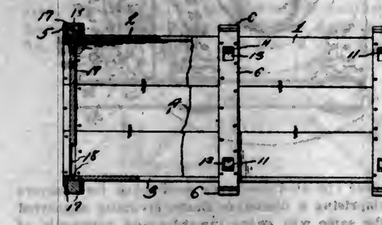
1. In a washer-saturating machine, the combination of a liquid receptacle, means for maintaining a constant flow

of liquid with a substantially uniform level through the receptacle, means to cause said liquid to follow a tortuous path through transverse channels extending across said



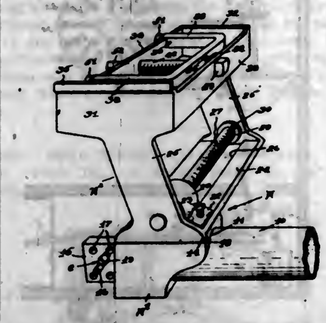
receptacle, and means to support the material to be treated below the surface of the liquid in said receptacle and to advance said material through the liquid.

1,394,154. COLLAPSIBLE BOX. HENRY P. EASTMAN, Livingston Manor, N. Y. Filed Oct. 20, 1920. Serial No. 418,154. 3 Claims. (Cl. 217—12.)



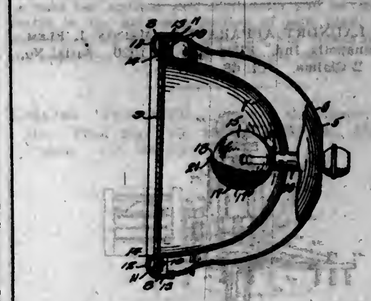
1. A collapsible box comprising side, bottom and top sections, said sections being provided with transversely disposed cleats adjacent their ends and centrally thereof, said cleats extending beyond the edges of the members to which they are secured and having their ends beveled substantially at 45 degrees, right angled apertures in the ends of the cleats, said apertures being so positioned that they will register with each other when the ends of the cleats are brought together, and bolts passing through said apertures and forming means for holding the sides, top and bottom of the box together.

1,394,155. BED-SPRING FRAME. HAROLD O. ERBIN, Anoka, Minn. Filed Jan. 18, 1921. Serial No. 438,138. 9 Claims. (Cl. 5—63.)



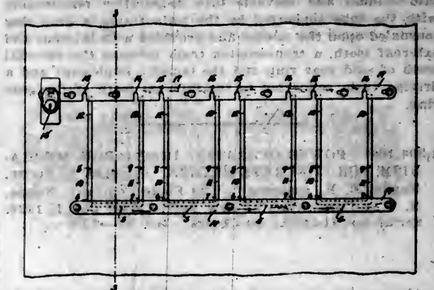
9. In a device of the class described, a pair of rails, means on said rails for applying the same to a bed structure and riser members on each rail to carry a spring fabric, said rails being severally adjustable laterally with respect to said members.

1,394,156. SHADE FOR HEADLIGHTS. GEORGE P. EDWARDS, Washington, D. C. Filed Nov. 29, 1920. Serial No. 427,104. 4 Claims. (Cl. 240—49.6.)



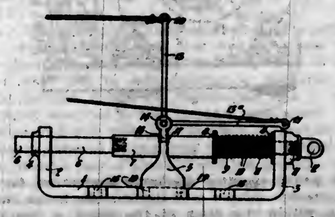
1. In a headlight, the combination with an electric bulb and its reflector, of a removable elastic textile fabric screen, a loop at one end thereof by which it may be mounted upon one end of the electric bulb, and means at the other end, for attaching the rear end of the screen to the other end of the bulb.

1,394,157. CARD-HOLDER. HUBERT J. FARNHAM, West Haven, Conn., assignor to The Price & Lee Company, New Haven, Conn., a Corporation. Filed Jan. 11, 1921. Serial No. 436,429. 1 Claim. (Cl. 129—1.)



The combination with a card holder formed from a single piece of wire and comprising a lip, parallel arches and ends, of a holder provided with means for engaging said lip and the ends of the said wire.

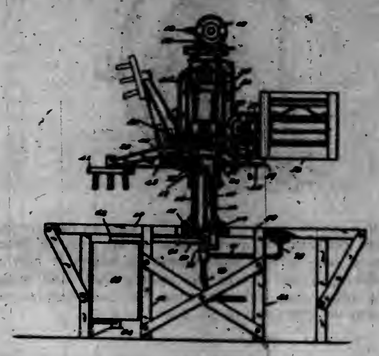
1,394,158. CONTROL DEVICE. HENRY FERESTER, Brooklyn, N. Y. Filed Sept. 18, 1919. Serial No. 324,649. 4 Claims. (Cl. 74—14.)



1. In a device of the class described, a supporting member, a bar resiliently slidable longitudinally therein,

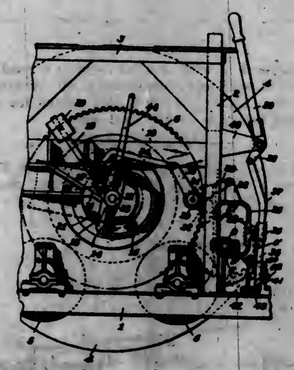
means for actuating said bar comprising a pair of complementary arms fulcrumed at or near their point of intersection, and a member projecting from said point and engaging said bar.

1,394,159. LAUNDRY APPARATUS. MELVIN J. FLEMING, Indianapolis, Ind. Filed May 17, 1920. Serial No. 381,972. 2 Claims. (Cl. 68—18.)



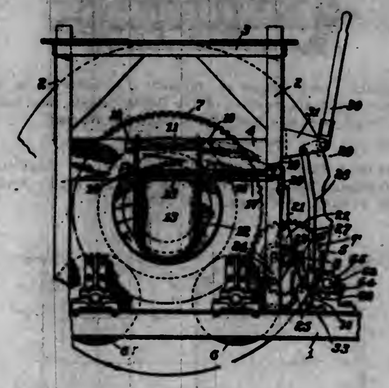
1. A laundry apparatus comprising a main frame adapted to support a plurality of tubs, a central column supported by said frame, a laundry implement swiveled upon said column and movable into coöperative relationship with the tubs supported by the main frame, a gear ring journaled upon the column and provided with internal and external teeth, a transmission train between the external teeth of said gear ring and the laundry implement and a driving train connected to the internal teeth of the gear ring.

1,394,160. POWER-OPERATED DISCHARGE MECHANISM FOR CONCRETE-MIXERS. CHARLES E. FOOTE, Nunda, N. Y., assignor to The Foote Company, Nunda, N. Y., a Corporation of New York. Filed Oct. 1, 1920. Serial No. 414,065. 10 Claims. (Cl. 83—73.)



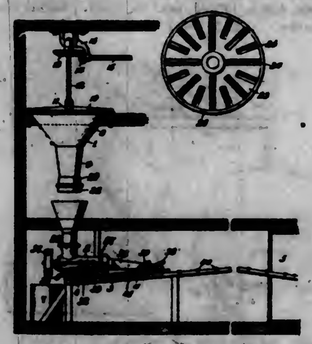
1. A power operated discharge mechanism for rotary drum concrete mixers comprising a discharge chute extending within the drum of the mixer, a continuously revolving gear for said drum, means connected to said chute and having on its opposite sides means adapted to be brought into and out of coöperation with said gear to thereby move said chute to its operative and inoperative positions.

1,394,161. POWER-OPERATED DISCHARGE MECHANISM FOR CONCRETE-MIXERS. CHARLES E. FOOTE, Nunda, N. Y., assignor to The Foote Company, Nunda, N. Y., a Corporation of New York. Filed Oct. 1, 1920. Serial No. 414,066. 5 Claims. (Cl. 83—73.)



1. A power operated discharge mechanism for concrete mixers comprising a discharge chute, pivotally supported so that the same will swing inwardly and outwardly of the drum of the mixer, a rotating gear, a rack coöperating with said either gear and means for forcing one side of the rack in mesh with the gear to thereby swing the chute inwardly of the mixer to its operative or discharge position, and to the other side of the rack for swinging the chute outwardly of the drum of the mixer to its inoperative position.

1,394,162. PROCESS OF MAKING STOCK FOOD FROM CACTUS. WILLIAM GERHARDT, San Antonio, Tex. Filed May 20, 1918. Serial No. 235,545. 7 Claims. (Cl. 99—11.)



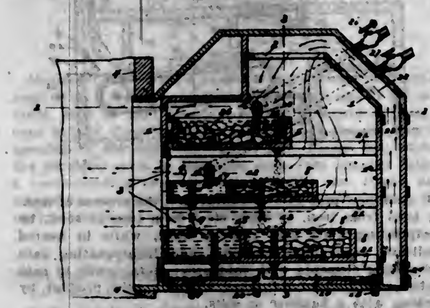
1. The process of preparing spiny cactus for stock food, which consists in reducing the green plant, including the spines, to a finely divided pulpy mass, with excess liquid, if present, removed, and then drying the pulp.

1,394,163. DRAFT-YOKE. ENOCH GEORGE, Jr., Pittsburgh, Pa., assignor to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 5, 1921. Serial No. 459,813. 15 Claims. (Cl. 213—42.)



8. A draft yoke having spaced arms adapted to receive a cushioning unit between them, and provided with a wear plate engagingly overlapping the inner face of one of said arms.

1,394,164. OIL-BURNING FURNACE. THOMAS GERARD, Cortland, N. Y., assignor of one-half to Daniel Kernan, Cortland, N. Y. Filed June 9, 1919. Serial No. 302,713. 2 Claims. (Cl. 158—4.)



1. In an oil-burning apparatus and in combination, an inclosure provided with an air-inlet, and with a gas-outlet; a plurality of oil-burning hearths mounted one above another within the inclosure all below the level of said air-inlet; a lower hearth having separate compartments for oil and for water; means for supplying oil directly to only the top hearth; overflow means for delivering an excess of oil from the top hearth to the oil-compartment of said lower hearth; means for supplying water to the water-compartment of said lower hearth; and overflow means for separately conveying an excess of oil from said oil-compartment and an excess of water from said water-compartment to points outside the inclosure.

1,394,165. SEAL-PRESS. CALDER C. GIBSON, Buffalo, N. Y. Filed Jan. 24, 1920. Serial No. 353,804. 5 Claims. (Cl. 81—9.1.)



1. In a seal press, the combination of a head comprising spaced side walls formed with a die-bed, the portion of the head carrying said die-bed being narrower than the remainder thereof transversely of the plane of the head and depressed below the adjacent portions of said side walls, forming rear abutments, a lower die seated on said bed against said abutments and having a stem seated in the narrowed portion of said head, an upper die coöperating with said lower die, and means for moving the upper die relatively to the lower one.

1,394,166. PENKNIFE. THOMAS C. GIBSON, Forsyth, Ga. Filed Mar. 16, 1921. Serial No. 452,865. 4 Claims. (Cl. 30—10.)



4. The combination with a penknife handle, of blades pivotally connected to the opposite ends of the handle, and means carried by the butt end of one blade coöperating with the point of the other blade when in closed position, preventing the first blade when being closed from closing on the wrong side of the closed blade.

1,394,167. WEIGHING AND SORTING MACHINE. RUDOLPH W. GLAESNER and MARTIN BALCKER, Chicago, Ill., assignors to Marquette Tool & Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 18, 1920. Serial No. 366,792. 19 Claims. (Cl. 83—92.)

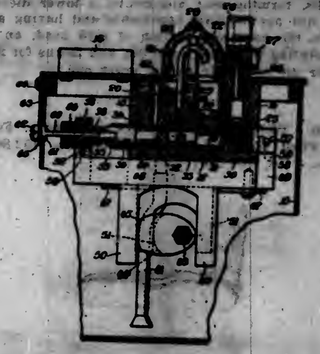


1. The combination of article sorting means, weighing mechanism for weighing the articles and means automatically movable into and out of operative position by the weight of the articles and operating to automatically deliver the articles from the weighing mechanism as they are weighed.

1,394,168. FORCE-FEED OILER. LOUIS E. GODFRIAUX, Madison, Wis., assignor to Gisholt Machine Company, Madison, Wis., a Corporation of Wisconsin. Filed Feb. 12, 1921. Serial No. 444,346. 11 Claims. (Cl. 184—27.)

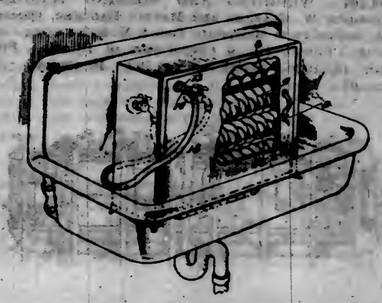
11. In a force feed oiler, the combination of a cylinder having a suction port, a sight feed well, a by-pass duct, a supply duct from said cylinder to said well, a delivery duct from said well to said cylinder, a discharge duct from said cylinder to the oil distribution line, a sleeve valve slidably mounted in said cylinder, said sleeve valve having high and low pressure chambers, a port in said high pressure chamber coöperating with said delivery and discharge ducts, a pair of ports in said low pressure chamber coöperating with said by-pass and supply ducts, respectively, and a port in said low pressure chamber coöperating with said suction port, tandem plungers slidably mounted in said high and low pressure chambers, and means for reciprocating said sleeve valve and plungers,

and reciprocating means effecting simultaneous equal movements, in such direction, of said sleeve valve and



plungers to first effect registration of said ports and ducts, and then a further movement of said plungers to effect the suction and forcing of the oil.

1,394,169. DISH-WASHER. G. Marvin Green, Kissimmee, Fla. Filed Jan. 7, 1920. Serial No. 349,902. 1 Claim. (Cl. 141—9.)



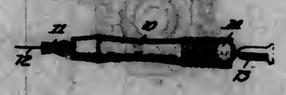
A dish washer comprising a portable casing adapted to be placed in a sink and equipped with a drain outlet and a series of shelves, said casing having one of its sides hinged to constitute a door, a header and a series of perforated spray pipes on the inner face of said door, the remaining walls of said casing being imperforate, and a tube adapted to be connected with said header and a faucet of the sink.

1,394,170. BUMPER. Rafael E. Griewe and Raymond Johnson, Los Angeles, Calif. Filed May 24, 1921. Serial No. 472,228. 7 Claims. (Cl. 293—55.)



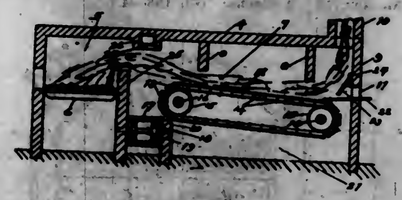
4. In a bumper for vehicles, a bumper bar, and means adapted for attachment to the vehicle to support the bar, said means comprising a split head having a transverse opening to receive the bar, one end of the head having a pocket formed in its inner wall beyond the bar, a supporting member having a hooked free end engaging into said pocket and contacting with the bar, and means engaging the opposite end of the head and the supporting member to draw them together to clamp the bar.

1,394,171. ELECTRIC NEEDLE. Mary E. Hall, Chicago, Ill. Filed May 2, 1921. Serial No. 465,978. 1 Claim. (Cl. 174—177.)



An electric needle for removing hairs, said needle having a relatively stiff shank and a flexible tapering end, whereby the needle may bend to follow the curvature of a hair follicle into which it is inserted.

1,394,172. PROCESS FOR MAKING STEEL. James Hundley, Columbus, Ohio. Filed July 22, 1919. Serial No. 312,748. 5 Claims. (Cl. 148—16.)



1. As a new process of manufacture, the process of making steel from iron, or alloy steel from iron or steel, by precipitating upon said iron or steel, while in heated condition, carbonizing elements and incorporating said carbonizing elements with said other metal while in said heated condition and further unifying said product by working with a hammer or rolls.

1,394,173. AUTOMATIC STARTING AND STOPPING DEVICE FOR TALKING-MACHINES. Albert A. Houser, Chicago, Ill. Filed July 31, 1920. Serial No. 400,261. 2 Claims. (Cl. 192—116.)



1. In an automatic stopping mechanism for talking machines, the combination of a supporting plate, a turn-table

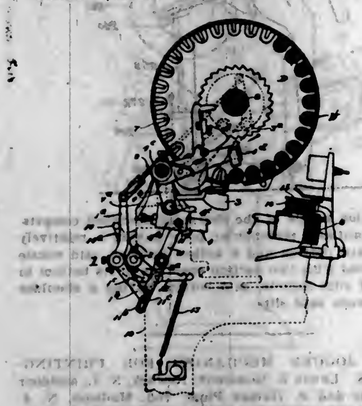
above said plate, an arm mounted to swing horizontally above said plate, a brake-shoe carrier pivotally mounted on said plate, a brake-shoe on said carrier movable into and out of engagement with said turn-table, a spring normally urging said brake-shoe into engagement with said turn-table, a lever pivoted on said plate and having its arms connected to each other by a friction joint, one of said arms carrying at its outer end a catch engageable with said brake-shoe carrier, and the other arm carrying at its outer end an upstanding member located in the path of travel of said first-named arm, a spring acting on said lever to force said catch into engagement with said carrier, an arm pivoted concentric with said lever and having a transversely slotted free end through which said upstanding member projects, and manually operable means for swinging said last-named arm whereby to set said upstanding member at any predetermined point in the path of travel of said first-named arm.

1,394,174. HACKSAW. Edwin G. Ireland and John D. Clark, Clayburn, British Columbia, Canada. Filed Nov. 1, 1920. Serial No. 421,034. 1 Claim. (Cl. 145—33.)



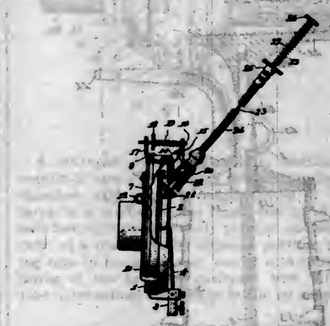
Means for connecting a hack-saw to its frame, said means comprising a member pin-connected to each end of the saw blade, each of said members having a threaded stem, a cone axially threaded on each stem with the smaller dimension of the cone toward the saw, means for locking the threaded stem in the cone, each cone member fitting a corresponding conical bearing in the saw frame, and means for applying tension to the saw blade through the cone bearings of the saw connection.

1,394,175. WEFT-REPLENISHING LOOM. Simeon S. Jackson, Boston, Mass., assignor to The Stafford Company, Readville, Boston, Mass., a Corporation of New Jersey. Filed Dec. 22, 1920. Serial No. 432,443. 6 Claims. (Cl. 139—85.)



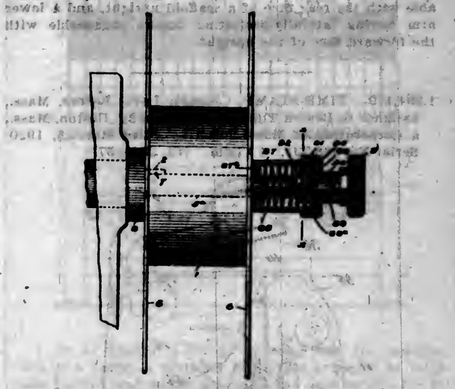
1. In a weft-replenishing loom, the combination with a controlling rockshaft having a pad-finger, a give-away lever pivoted upon an arm of the said rockshaft, a shuttle-feeler, and a transferrer-dog, of a transmitter-rocker having an arm engaged by said lever, a link intermediate the rocker and the shuttle-feeler, a link intermediate the rocker and the dog, and a spring acting through the said lever to keep the rocker engaged with the pad-finger, and also acting through the lever and rocker to keep the rockshaft in normal position, with the pad-finger against its abutment, and the shuttle-feeler and transferrer-dog in their normal inoperative positions.

1,394,176. DAMPER FOR TALKING-MACHINES. Robert E. L. Janney, Chicago, Ill. Filed June 25, 1918. Serial No. 241,732. 8 Claims. (Cl. 274—27.)



1. A damper for talking machines, comprising a damping pad, and means for adjusting it into and out of contact with the talking machine diaphragm, and, while in contact therewith varying its position on said diaphragm.

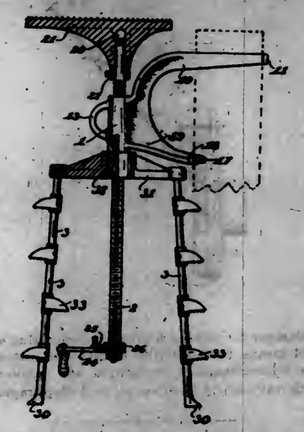
1,394,177. RETAINING MEANS. Robert W. Jones, Wilkes-Barre, Pa. Original application filed Dec. 16, 1917, Serial No. 207,807. Divided and this application filed Aug. 5, 1918. Serial No. 248,284. 8 Claims. (Cl. 287—53.)



1. The combination with a suitable support having a hook-shaped slot or groove formed in one end thereof; of a unitary retainer removably applicable to the support to releasably retain a rotatable member thereon, the retainer including a locking member having a bore adapted to fit over the outer slotted end of the shaft; a bit carried by the locking member and projecting into the bore, the bit adapted to be entered in and removed from the hook-shaped slot; an apertured arresting member adapted to removably surround the outer end of the support, the inner

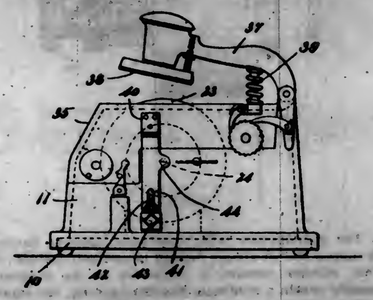
end of the arresting member normally in contact with the rotatable member to hold the latter in place; the arresting member being chambered to inclose the inner end of the locking member; means to connect the arresting and locking members against disengagement, and to permit relative rotary and telescopic movement thereof; and a spring inclosed within the arresting member and bearing against the locking member to retain the latter where adjusted.

1,394,178. SCAFFOLD-JACK. CARL HJALMAR LARSSON, Seattle, Wash. Filed Jan. 2, 1920. Serial No. 348,819. 6 Claims. (Cl. 304—29.)



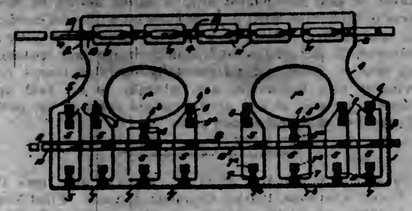
1. Means for raising or lowering scaffolding platforms comprising an attachment member and an elevator member engaged therewith and vertically movable therein, and supporting means for said attachment member comprising an upper arm having laterally-projecting fingers engageable with the rear face of a scaffold upright, and a lower arm having laterally-projecting fingers engageable with the forward face of the upright.

1,394,179. TIME-STAMP. JOSEPH LEVY, Boston, Mass., assignor to Boston Time Stamp Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 25, 1920. Serial No. 368,731. 1 Claim. (Cl. 234—57.)



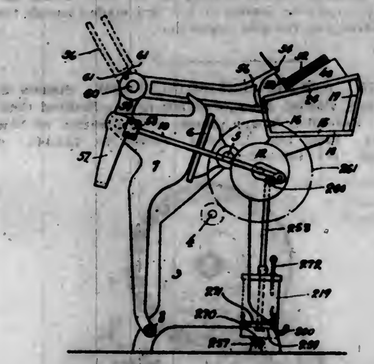
In an apparatus of the kind described, the combination of a base and standard, a timing mechanism located on the base and in operative relation to the standard, a date and time indicating unit, cooperating means on said unit and standard for positioning the said unit in the standard and in operative relation to the timing mechanism, a cover on said standard inclosing said date and time indicating unit, means for adjusting the timing mechanism, and means cooperating with the standard and cover for locking said adjusting means against movement.

1,394,180. LIFE-PRESERVER. ANDREAS P. LUNDIN, Bayside, N. Y., assignor to American Balsa Company, Inc., a Corporation of New York. Filed Jan. 12, 1920. Serial No. 351,122. 4 Claims. (Cl. 9—20.)



1. A life preserver embodying a base composed of a single sheet of fabric; a series of buoyant units, each comprising a block of balsa wood having bores at its opposite end, mounted on one side of said base; and a series of relatively narrow straps each connected to said base fabric and threaded through said bores to secure the blocks to the face of the fabric.

1,394,181. PAPER SEPARATING AND FEEDING MECHANISM. LEWIS E. MORRISON, Newark, N. J., assignor to himself and S. Haines Plum, 2nd, Madison, N. J. Original application filed May 29, 1919, Serial No. 300,702. Divided and this application filed Jan. 20, 1920. Serial No. 352,749. 11 Claims. (Cl. 101—287.)

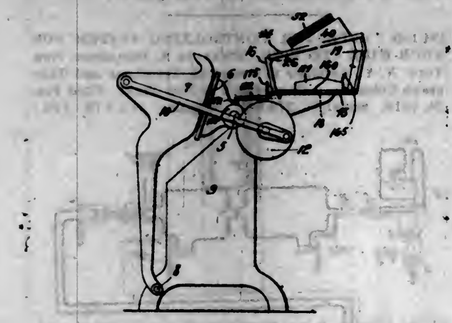


4. A suction nozzle of the character described comprising a substantially rectangular body having a relatively heavy forward portion and a hollow interior, said nozzle being provided with two suction openings in its bottom in the form of slits therein, said bottom having a shoulder formed between said slits.

1,394,182. JOGGER MECHANISM FOR PRINTING-PRESSES. LEWIS E. MORRISON, Newark, N. J., assignor to himself and S. Haines Plum, 2nd, Madison, N. J. Original application filed May 29, 1919, Serial No. 300,702. Divided and this application filed Feb. 21, 1920. Serial No. 360,331. 1 Claim. (Cl. 271—33.)

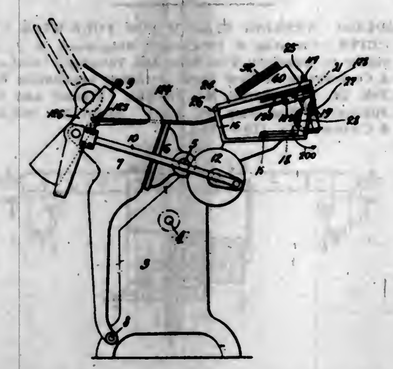
In a printing press the combination of a movable platen, a table for receiving the printed matter therefrom, a paper stacking means on said table comprising fixed rear

members over which the printed matter is adapted to slide, said members being disposed parallel to the direction of movement of the paper, yieldable front stops for positioning the printed matter on the table, a sliding member for adjusting said stops simultaneously, a rear jogger disposed transversely of the said fixed rear members and provided with slots for moving past said fixed members to move the



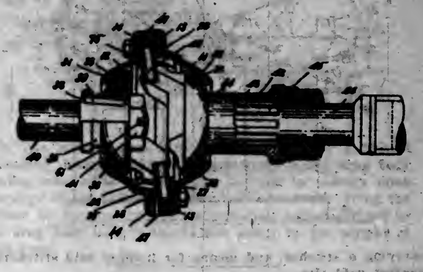
printed matter against the said front stops, side joggers, guide means for the latter secured beneath said table, means for adjusting said side joggers and guiding means, cam rollers carried by said side joggers, a cam secured to said rear jogger and adapted to cooperate with the said cam rollers for operating said side joggers and means for operating said rear jogger from the said platen.

1,394,183. GRIPPING MECHANISM FOR PRINTING-MACHINES. LEWIS E. MORRISON, Newark, N. J., assignor to himself and S. Haines Plum, 2nd, Madison, N. J. Original application filed May 29, 1919, Serial No. 300,702. Divided and this application filed Jan. 20, 1920, Serial No. 352,751. Renewed Mar. 14, 1921. Serial No. 452,228. 9 Claims. (Cl. 101—287.)



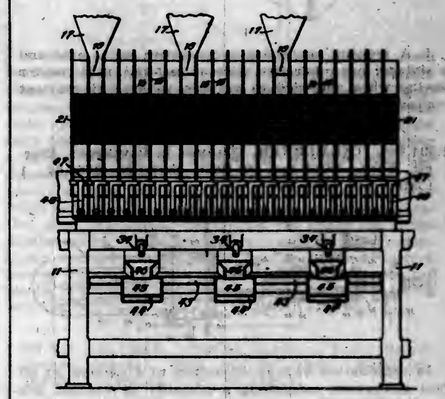
2. A gripping mechanism comprising supporting means, a gripper carriage, guiding means therefor, a gripper adjustably mounted on said carriage, a latch mechanism on the latter and gripper operating means adapted to automatically engage and disengage with the said latch mechanism.

1,394,184. UNIVERSAL JOINT. ALFRED B. MORSE, South Easton, Mass., assignor, by mesne assignments, to Julia A. Morse, South Easton, Mass. Filed Feb. 24, 1920. Serial No. 360,930. 1 Claim. (Cl. 64—89.)



A universal joint construction, having a pair of substantially concave members cooperating to define a hollow chamber, said members being united at their contacting faces, in a semi-spherical form, each of said concave members having formed entirely through one part, an extending tube, at a diametrically opposite position from the extending tube in the other part, one of said tubes permitting the filling of the inclosed structure with oil, and the other tube determining the height of the oil supplied.

1,394,185. FISH-CUTTING MACHINE. ARTHUR R. BOOMER, Jonesport, Me., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 24, 1920. Serial No. 353,883. 29 Claims. (Cl. 17—10.)

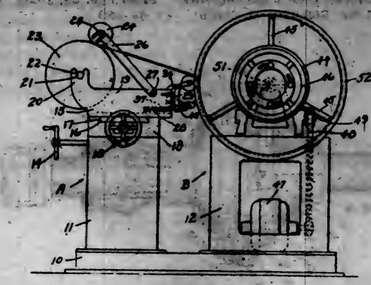


1. In an apparatus for decapitating fish, the combination of a frame, a plurality of cutters arranged at intervals therein, and means common to all said cutters for delivering fish to said cutters for decapitation.

1,394,186. APPARATUS FOR ATTACHING TIRE-BASES TO RIMS. AMBROSE WEATHERILL, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 28, 1919. Serial No. 293,187. 14 Claims. (Cl. 154—0.)

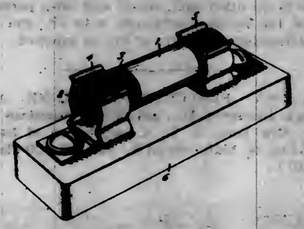
1. An apparatus of the kind described, comprising means for supporting and rotating a base rim, means for

applying a strip of material to said rim, including a plurality of members mounted thereon, each of said members



carrying a stitcher, and means for holding said stitchers against said rim.

1,394,187. RESISTOR. ELMER E. F. CREIGHTON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 15, 1920. Serial No. 365,738. 5 Claims. (Cl. 219—76.)



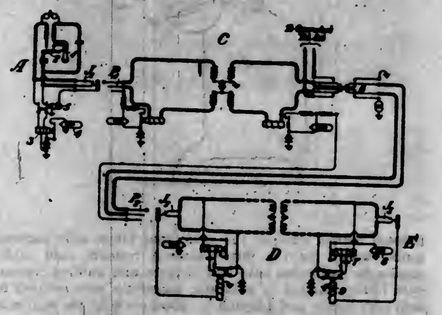
1. A resistor comprising a conductive metal oxid and a sintered non-conductive vitreous material, said resistor having when subjected to variable voltages at constant temperature a substantially stable resistance.

1,394,188. OIL-BURNER. THOMAS L. DAVENPORT, Everett, Wash. Filed Apr. 19, 1920. Serial No. 375,164. 1 Claim. (Cl. 158—75.)



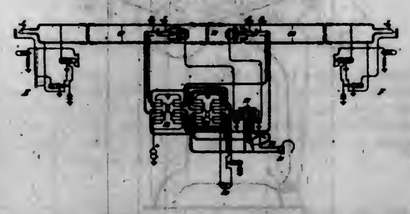
In combination with an oil burner, of a vacuum jet oil feed mechanism comprising a plurality of vacuum jets adapted to be secured together in end to end relation, each of said jets comprising an outer casing provided with a cylindrical passageway that is counterbored at each end to form a seat, a tubular member having a perforated flange on one end disposed concentrically within said passageway and adapted to fit within said seat, said tubular member being of less diameter than said cylindrical passageway whereby an annular passageway is formed therebetween and having one of its ends internally flared in a rearward direction, another tubular member having a perforated flange on one end adapted to fit within the said seat on the opposite end of said casing, said tubular member being of substantially similar diameter of the first named tubular member and having one of its ends externally tapered and fluted and adapted to be projected within the flaring end of the first named tubular member in concentric relation thereto to form a plurality of apertures of relatively small area therebetween, an intake conduit for fluid fuel connected with the inlet end of said tubular members, controlling means interposed in said intake conduit, a supply pipe adapted to conduct fluid under pressure into the said annular passageway, controlling means interposed in said supply pipe, and a delivery conduit connecting the outlet end of said tubular members with said burner.

1,394,189. REPEATER-CONTROLLING SYSTEM FOR FOUR-WIRE CIRCUITS. CHARLES S. DEMAREST, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Feb. 24, 1919. Serial No. 278,945. 8 Claims. (Cl. 179—170.)



1. In a telephone system the combination of two subscribers' circuits, trunk circuits adapted to connect each subscriber's circuit to a toll office,—a four-wire repeater trunk circuit extending between said toll offices, telephonic repeaters adapted to be connected with said four-wire circuit, link circuits adapted to connect said subscriber's circuits with said trunk circuits and said trunk circuits with said repeater trunk circuit, and means associated with said repeater trunk circuit whereby the said telephonic repeaters may be effectively connected into said repeater trunk circuit when a talking connection is established between the two subscribers' circuits.

1,394,190. TESTING SYSTEM FOR FOUR-WIRE CIRCUITS. CHARLES S. DEMAREST, Ridgewood, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Original application filed Feb. 24, 1919, Serial No. 278,945. Divided and this application filed July 24, 1920. Serial No. 398,657. 6 Claims. (Cl. 179—175.)



4. In a telephone system, the combination with a four-wire repeater circuit having a plurality of repeaters associated therewith but normally disconnected therefrom, of a gain testing circuit and a plurality of link circuits for connecting the said repeater circuit with the said testing circuit, the link circuits having means associated therewith for controlling the connection of the said repeaters with the said four-wire circuit.

1,394,191. DISPENSING-PUMP. BERNARD P. FALTIN, Bareville, Pa. Filed Oct. 27, 1919. Serial No. 333,449. 1 Claim. (Cl. 221—61.)



In a housing for a dispensing device, a pedestal having a circular guide rim formed with a rabbet on its outer and upper edge, a cylindrical casing having a fixed part and a rotatable part, the lower edge of the fixed part being secured to the outer face of the guide rim, the rotatable part being pivotally secured from above and its lower edge slidably seated in the rabbet on the circular guide, and a plurality of grooved rollers secured to the inner face of the rotatable part adjacent its lower edge, the grooves of the rollers seating over the upper edge of this circular guide to secure the rotatable part thereon.

1,394,192. PROCESS OF DRILLING WELLS. JOHN A. FITZPATRICK and GEORGE A. FITZPATRICK, Santa Ana, Calif. Filed Nov. 22, 1919. Serial No. 339,937. 2 Claims. (Cl. 166—21.)



1. That method, of constructing a well wherein a casing is lowered into a hole of greater diameter, from top to bottom than the casing, forcing water down the casing to the bottom of the well so it flows upward in the outer chamber and washes it out, and filling the washed well hole with assorted bodies to form a filtering jacket about the casing, thereafter perforating the casing to form suction holes.

1,394,193. TRACK-WEEDER. JOHN B. FRANKLIN, Brockville, Ontario, Canada. Filed Apr. 30, 1920. Serial No. 375,377. 3 Claims. (Cl. 37—56.)



1. The combination with a railway car of a ballast spreading device comprising a relatively heavy drag body flexibly suspended from the car to hang by gravity upon the slope of the ballast and adapted to be drawn along the ballast by the car, and ballast dressing means carried by the drag body held to the ballast solely by the weight of said body.

1,394,194. COMBINATION KITCHEN UTENSIL. JOSEPH HENRI GAGNON, Montreal, Quebec, Canada, assignor of two-thirds to Victor Geoffrion, Montreal, Quebec, Canada. Filed May 10, 1920. Serial No. 380,277. 1 Claim. (Cl. 65—46.)



A device of the character described comprising a main body portion having its lower edge located in one common plane, a bottle cap piercer provided at one end of said member in the form of a barb having sharpened cutting edges and a flat edge parallel with the lower edge of the main body, the opposite end of the member constituting a handle whereby the pierced cap is raised upon the downward movement thereof, a portion intermediate the piercer and the handle adapted to engage the rim of the bottle neck to serve as a fulcrum in the cap raising operation, a portion opposite the fulcrum and at the end of the member which carries the piercer overlapping and constituting a guard for the piercer, and an upwardly curved portion on said member substantially directly over the piercer to serve as a thumb piece when the piercer is forced into the cap.

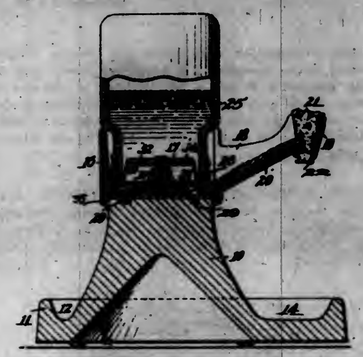
1,394,195. BUCKLE. THEODE GARCEAU, Three Rivers, Quebec, Canada. Filed May 10, 1921. Serial No. 469,952. 2 Claims. (Cl. 24—198.)



1. A buckle comprising a plate provided with an inner recess; inwardly projecting lugs provided intermediate of said recess, said lugs being adapted to form a strap receiving slot; a lug inwardly projecting from the lower edge of aforesaid recess, and suitably distanced from said other lugs, a part of said plate between said last named lug and said other lugs being cut out, whereby a passage

is formed intermediate of the lower edge of said plate, said inwardly projecting lug forming a locking element for the loop provided on the other end of the strap, substantially as described.

1,394,196. MOISTENING DEVICE. CARL CHESTER HARRIS, Orange, Mass., assignor to Rivet-O Manufacturing Company, a Corporation of Massachusetts. Filed June 18, 1919, Serial No. 303,832. Renewed Mar. 26, 1920. Serial No. 369,080. 7 Claims. (Cl. 91—54.4.)



1. A moistening device comprising a stand or base, a water reservoir removably mounted at an elevation thereon, and a moisture holding and applying element in uninterrupted communication with said removable reservoir having a downwardly projecting substantially flat surface for applying the moisture to the top of the article to be moistened.

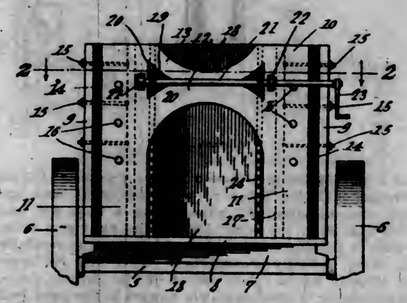
6. A moistening device comprising a receptacle, means for keeping the liquid at a constant level therein provided with a valve arranged to close automatically when said means is removed, means for holding absorbent material with its lower surface at a slight elevation above the level of liquid in said receptacle, and means for supplying moisture from said receptacle to said absorbent material.

1,394,197. FRUIT-PICKER'S BAG. WILLIAM F. KEELINE, deceased, El Centro, Calif., by Mrs. W. F. Keeline, administratrix, El Centro, Calif. Filed Dec. 1, 1919. Serial No. 341,673. 1 Claim. (Cl. 150—2.)



A fruit picker's bag comprising a flexible body having an upper open mouth, a substantially rigid U-shaped frame at the forward portion of the open mouth around which the forward portion of the upper edge of the body is secured, a flexible connecting strip secured at its opposite ends to the opposite ends of said U-frame and around which the rear portion of the upper edge of the body is secured, reinforcing strips externally of the bag mouth, secured to said connecting strip at their inner ends and to the U-frame at their outer ends, and a wear strip extending along the rear portion of the bag mouth and secured at its opposite ends to the inner ends of said reinforcing strips and also secured intermediate its ends to the said connecting strip.

1,394,198. END-GATE. WILLIAM LAWRENCE, Harcourt, Iowa. Filed May 13, 1920. Serial No. 381,122. 1 Claim. (Cl. 296—52.)



In combination with the side boards of a wagon body, an end gate frame including leg members, a bar connecting the leg members secured to the upper ends thereof, said bar having gear openings, an end gate movable at the rear of the end gate frame and carrying rack bars, a shaft supported on the end gate frame and having gears positioned in the gear opening, the gears adapted to move over the rack bars, and a handle formed on one end of the shaft for operating the gears to raise and lower the end gate.

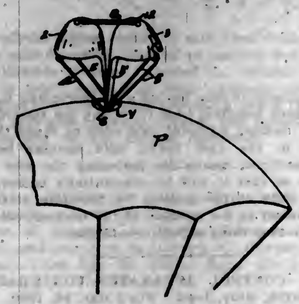
1,394,199. CLASP FOR HOSE-SUPPORTERS. JOHN S. LEARY, North Cambridge, Mass. Filed Jan. 15, 1919. Serial No. 271,211. 1 Claim. (Cl. 24—260.)



A clasp for a hose supporter comprising two jaws, one of said jaws terminating at one end thereof in a cylindrical portion extending transversely thereacross, the other of said jaws terminating at its free end in a curved portion adjacent to said cylindrical portion, said curved portion conforming to the curvature of said cylindrical portion, and a band encircling said jaws and slidable thereon whereby said jaws may be clamped together and material inserted therebetween firmly secured thereto, each of the jaws being so related to the other as to be at all times yieldable toward each other within said band to entirely relieve the pressure against said band during its movements upon said jaws, the curved ends of said jaws also being so related to each other as to separate automatically when the pressure thereon is relieved by said band.

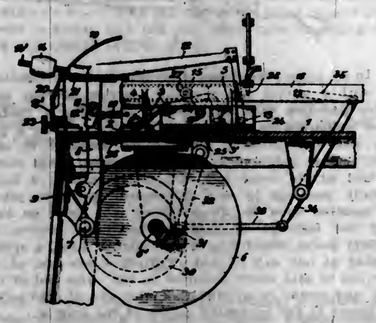
1,394,200. [WITHDRAWN.]

1,394,201. AUTOMATIC OPENER FOR PARACHUTES. FREDERICK M. LEMON, Oklahoma, Okla. Filed July 13, 1920. Serial No. 395,912. 6 Claims. (Cl. 244—21.)



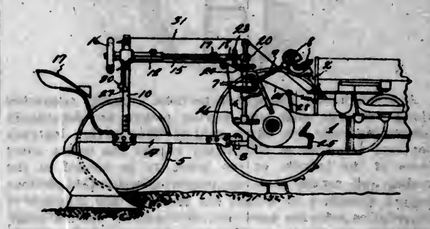
1. The combination of a harness attachable to the body of the person; a parachute connected to the harness; and means connected to the parachute to bring it to an upright position and facilitate the opening of the parachute; the last named means including a pair of opposed automatically opening bag-like devices.

1,394,202. AUTOMATIC SHEET-FEEDING DEVICE. RICHARD LEUMANN, Chailly-sur-Lausanne, Switzerland. Filed Mar. 1, 1921. Serial No. 448,840. 6 Claims. (Cl. 271—26.)



1. In a device for removing from a pile of sheets used in wrapping machines separating sheets inserted between every two wrapping sheets, the combination of a first member adapted to engage every uppermost separating sheet, the wrapping sheets being removed by members of the wrapping machine, a second member adapted to engage with said sheet at a point at some distance from the point of engagement of the first member, means to move said members relatively to and toward each other so that no relative displacement between said members and the sheet at the points of engagement but a looping of the sheet is caused, and means provided on one of said members to spit the sheet through said loop.

1,394,203. STEERING DEVICE FOR TRACTORS. HENRY LUTTERBACH, Armstrong, Ind. Filed Dec. 21, 1920. Serial No. 432,283. 1 Claim. (Cl. 180—77.)



The combination with a pair of alined vehicles, the forward vehicle being provided with a steering post, of steering mechanism whereby the forward vehicle may be steered from the rear vehicle, said mechanism comprising a vertically disposed shaft carried by the forward vehicle, shafting and gear connections between said vertical shaft and the steering post, a horisontally disposed steering shaft carried by the rear vehicle and having its rear end supported in a bearing carried thereby, said horisontally disposed shaft being provided with a slip connection, the forward end of the horisontally disposed shaft being universally connected to a stub shaft rotatably mounted in a bearing supported on the upper end of a vertical shaft and gear connections between the stub shaft and the upper end of the vertical shaft.

1,394,204. PISTON. JOHN O. MCARTHUR, Milwaukee, Wis. Filed July 20, 1920. Serial No. 397,698. Renewed Sept. 8, 1921. Serial No. 499,316. 2 Claims. (Cl. 74—109.)



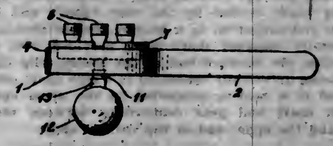
1. The combination with a piston having an annular channel in the periphery thereof, of a packing ring disposed in said channel, coiled springs disposed in pockets in the bottom of the channel, said coiled springs having their outer ends in engagement with the packing ring, the spiral springs to one side of the piston being of greater expansive force than the coiled springs at the other side of the piston thereby forming means for taking up the wear on the packing rings at its point of greatest wear and also forming means for supporting the weight of the piston.

1,394,205. BRUSH-HOLDER. OSMOND C. MALCOLM, Auburn, N. Y. Filed Aug. 6, 1920. Serial No. 401,841. 1 Claim. (Cl. 248—68.)



A brush holder comprising sections hingedly connected along one side edge and having means for detachably connecting their free edges, said sections having instruck portions arranged to clampingly engage the entire outer faces of the bristles of the brush to be housed in the casing and retain them in proper shape, said portions having shoulders to engage the brush at the junction of the bristles with the head to hold the brush against longitudinal movement in one direction and prevent the weight of the brush from resting on the bristles.

1,394,206. MASSAGE-BRUSH. FRED L. MATHEU, South Bend, Ind. Filed Aug. 9, 1920. Serial No. 402,457. 8 Claims. (Cl. 128—297.)



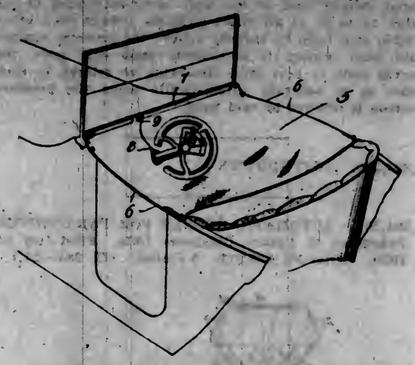
1. A massage brush comprising a hollowed head portion, a plate, a plurality of vacuum cups formed integral with said plate, a divided channel frame detachably secured to said head member, said frame being adapted to receive and house said plate, substantially as described.

1,394,207. CUT-OUT. FRANK J. MEDINE, Los Angeles, Calif., assignor of one-half to Harry S. Longfellow, Los Angeles, Calif. Filed Mar. 30, 1920. Serial No. 369,852. 5 Claims. (Cl. 251—125.)



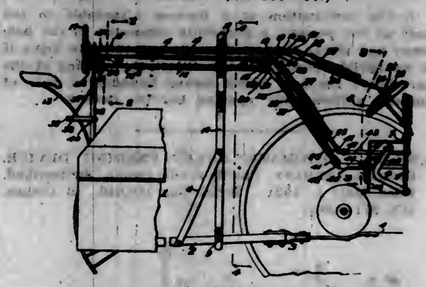
1. A cut-out comprising a supporting bracket, a movable arm swingably mounted on said bracket and having a closure head at its free end, an operating rod having a connection with said movable arm for swinging the latter to move its closure head to open position, means for engaging said operating rod on said bracket for retaining the closure head in open position, and means for pivotably swinging said movable arm so that its closure head is in closed position.

1,394,208. AUTOMOBILE-ROBE. RESTORE RYAN MERRIMAN, Cupertino, Calif. Filed June 16, 1917. Serial No. 175,189. 2 Claims. (Cl. 296—62.)



1. An automobile robe having a slit extending inwardly from the front marginal edge to receive the steering post, a resilient member adjacent said edge to cause the robe to snugly fit the dash board, said member being in separable sections, means for fastening the robe to the automobile so that it will be substantially immovable at the outer ends of the member to facilitate attachment and detachment of the sections of the member, said separable connection being adjacent said slit.

1,394,209. CONTROL APPARATUS FOR TRACTORS. JOHN MEYER, Gray, Iowa. Filed Mar. 16, 1920. Serial No. 366,205. 3 Claims. (Cl. 180—77.)

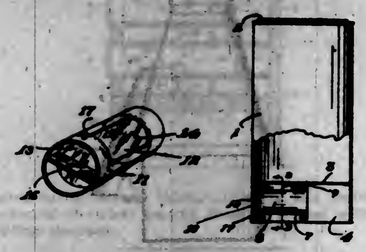


1. In an apparatus of the class described, the combination with a tractor and a trailer attached thereto, said tractor provided with a governing device, of a control device supported upon the trailer and comprising a primary sleeve, a primary rod slidably mounted in said sleeve against independent rotary movement, said sleeve provided at its outer end with a bifurcation, a block pivotally mounted in said bifurcation, a sleeve pivotally mounted upon the outer end of said block, an auxiliary rod fastened in said last-mentioned sleeve, an auxiliary sleeve mounted upon said auxiliary rod, a spring attached at one end to said auxiliary sleeve and at its other end to said sleeve mounted on the outer end of the block, and means connecting the outer end of said auxiliary sleeve to the governing device of the tractor.

1,394,210. COFFEE-CAN AND ATTACHMENT. WILLIAM SCHUYLER MILLER, San Diego, Calif. Filed Dec. 9, 1920. Serial No. 429,467. 1 Claim. (Cl. 221—166.)

A coffee can comprising in combination a receptacle, an air tight removable cover for said receptacle, a raised

horizontal bottom in said receptacle, an opening in said bottom having a downwardly depending housing, a horizontal cylinder fixed to said housing, an upper and a lower opening in the walls of said cylinder, the upper opening thereof being held in alinement with the opening in the bottom of said receptacle by said housing, a rotatable cylinder fitting inside of said fixed cylinder, closed ends in said rotatable cylinder, an opening in the wall of said rotatable cylinder adapted to register with the upper or lower opening in said horizontal cylinder, an opening in the side of said receptacle and a thumb piece on said rotatable cylinder adjacent said opening substantially as and for the purpose described.



1,394,211. APPARATUS FOR DISCHARGING STATIC CHARGES. JOHN H. MORGAN, Holyoke, Mass., assignor of one-third to Bertha Webster, Springfield, Mass., and one-third to Charles W. Huntley, Holyoke, Mass. Filed Apr. 21, 1917. Serial No. 163,594. 4 Claims. (Cl. 175—364.)



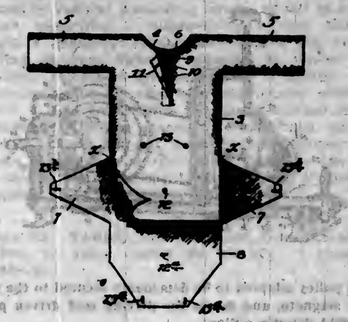
1. In an apparatus for discharging static charges from material, an outer and inner tube one of which is of insulating material and the other of conducting material, a rotatable conducting rod within the inner of said tubes, means to rotate said rod, and conductors extending from said rod toward said material.

1,394,212. WATER-MOTOR. SAMUEL NEUMANN, New York, N. Y. Filed June 28, 1920. Serial No. 392,263. 2 Claims. (Cl. 253—136.)



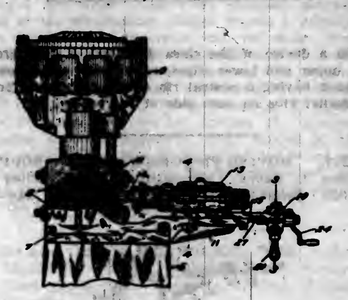
1. A water motor comprising a casing, a hollow shaft journaled therein, a plurality of bucket wheels revoluble on said shaft, said wheels having recessed hubs, a rod slidable in said shaft, a plurality of spring impelled dogs pivoted in said rod, said dogs being normally engageable in the recesses of said wheels, and means formed internally in said shaft adapted to release said dogs upon moving said rod outwardly.

1,394,213. INFANT'S GARMENT. VALERIE D. OSMUNSEN, Elmhurst, Ill. Filed Apr. 30, 1921. Serial No. 465,739. 2 Claims. (Cl. 2—41.)



1. A garment of the character described comprising a rear and a front section, the rear section having a lower flap-extension folding over the lower portion of the front section, flaps extending from the opposite sides of the garment and folding toward each other over said folded flap-extension, and means adjacent the lower end of said front section for securing said flap-extension and said side flaps in place at one point on the garment and in superposed relation.

1,394,214. DRILL-SHARPENER. EDWARD L. OLDHAM, Denver, Colo., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo., a Corporation of Delaware. Filed Jan. 7, 1919. Serial No. 270,050. 6 Claims. (Cl. 76—5.)

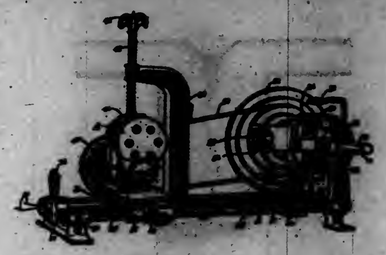


1. In apparatus of the character set forth, the combination with a base, of work clamping means mounted thereon, a device for operating on the work, mounted on the base and adjustable thereon toward and from the clamping means, a fixed support extending outwardly from the base beyond the outer end of said device, an actuating element rotatably mounted on the outer end of the support and held against longitudinal movement along the support, and an actuated element fixed to and movable with the said work operating device, said actuated element being engaged with and moved by the actuating element.

1,394,215. MAGNETO-TESTING MACHINE. DAVID W. OMAN, Minneapolis, Minn. Filed May 12, 1919. Serial No. 296,516. 2 Claims. (Cl. 175—183.)

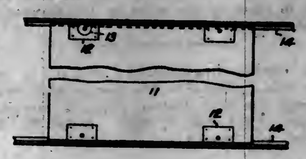
1. A magneto testing machine comprising two end supporting members, longitudinal tubular members connecting said end members, bearings on one of said end members for supporting a driving shaft, a driving pulley

attached to said shaft, a bed mounted on the said longitudinal members for holding a magneto to be tested, a



driven pulley adapted to be detachably secured to the shaft of the magneto, and means for driving said driven pulley from said driving pulley.

1,394,216. SLIDING DOOR. WILLIAM H. PARKER and GEORGE L. SMYTH, Montreal, Quebec, Canada. Filed Apr. 28, 1919. Serial No. 293,164. 6 Claims. (Cl. 20—19.)



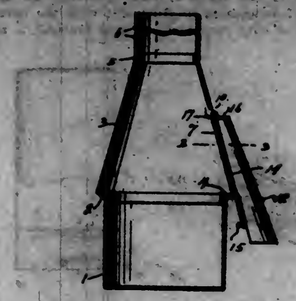
1. In a device of the class described, a door grooved at its upper and lower edges, rails above and below the door each having a central rib entering the door groove, and smaller ribs on each side of the central rib.

1,394,217. MOVING-PICTURE-MACHINE SUPPORT. MILTON L. PARRET, Marshalltown, Iowa. Filed July 6, 1920. Serial No. 394,320. 4 Claims. (Cl. 248—47.)



1. In a device of the class described, a support, an upright member rotatably mounted therein for vertical adjustment, means for effecting such vertical adjustment, a frame on said upright, a table pivoted to said frame and projecting therefrom, an adjustable device pivoted to said frame and said table and capable of longitudinal adjustment, a plate slidably adjustable on said table, means for locking said plate in different positions of its slidable adjustment, and guides on said plate for permitting the sliding mounting of a camera on the plate, said plate being arranged to be adjusted toward and from said frame, said guides being arranged transversely of the table.

1,394,218. ORCHARD-HEATER OR SMUDGE-POT. ARTHUR C. FERGUS, Mission, Tex. Filed Dec. 31, 1920. Serial No. 433,947. 3 Claims. (Cl. 169—91.)



1. In an orchard heater, a cap adapted to be operatively supported upon an orchard heater or smudge pot, and provided with an opening, a flue connected to the upper end of the cap, a flue disposed adjacent the side of the cap, said side flue having a communicating opening with the interior of the cap, a damper mounted in guides and adapted to control the draft through said opening, and means for fastening the flue and the damper detachably and movably in position.

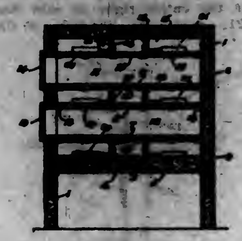
1,394,219. WHEEL-LOCK. DAVID J. RADDICK, San Francisco, Calif., assignor of one-half to Siegfried Graf, San Francisco, Calif. Filed May 13, 1920. Serial No. 381,023. 3 Claims. (Cl. 70—90.)



1. A wheel lock, comprising a chock, an arm integrally extending from one end of said chock, another arm pivoted to the other end of said chock, said integral arm having a perforated head, a U-shaped frame carried by the aforesaid pivoted arm, the side bars of said frame adapted to extend through said perforated head, and a lock carried by said perforated head.

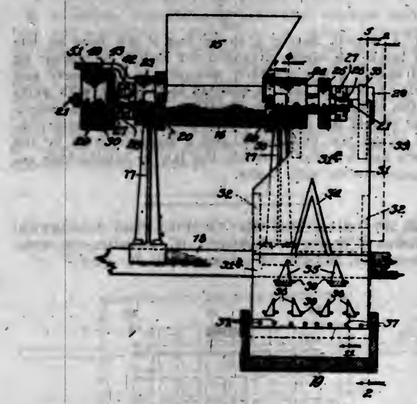
1,394,220. BAKING-OVEN. WILLIAM ROBERTS, Winnipeg, Manitoba, Canada. Filed Jan. 4, 1919. Serial No. 269,602. 1 Claim. (Cl. 219—38.)

In a baking oven, the combination with an inclosing insulated casing, of spaced fire brick decks supported from the inner walls of the casing and dividing the interior of the casing into distinct baking chambers and air tight heating chambers and one such heating chamber located above and one below each baking chamber, individual inlet doors allowing of entrance through the



casing to the several baking chambers and individually controlled electrical heating elements located within the heating chambers.

1,394,221. SALTING DEVICE. RALPH J. SAFFER, Los Angeles, Calif., assignor to Wilson & Company, Chicago, Ill., a Corporation of New York. Filed Feb. 17, 1921. Serial No. 445,676. 8 Claims. (Cl. 31—25.)



1. In a salt distributing device, in combination, means for delivering a substantially vertical stream of salt, a distributing board, and upwardly tapering distributing members mounted on said board, each being adapted to receive a stream of salt upon its apex and deliver divided streams of salt.

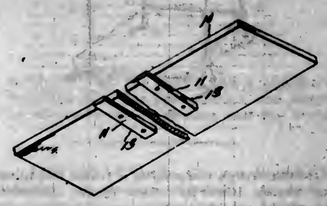
3. In a salt distributing device, in combination, a screw conveyer for delivering the salt, a disk spaced from the discharge end thereof to direct the issuing stream of salt substantially vertical, and means for distributing the discharged salt substantially evenly in a vertical plane.

5. A device for substantially evenly distributing a substantially vertical descending stream of salt in a vertical plane, comprising a substantially vertical distributing board, triangular distributing members mounted upon said board, their apices being directed upwardly and each of said triangular members being arranged to receive a stream of salt upon its apex and deliver dividing streams of salt to the distributing members below it.

7. A device for substantially evenly distributing a substantially vertical descending stream of salt in a vertical plane, comprising a substantially vertical distributing board, a triangular member mounted on said board and having its apex directed upwardly to receive the descending stream of salt and divide it equally, and rows of laterally adjustable triangular distributing members secured to said board below the first-mentioned triangular member, each being adapted to receive and subdivide a divided stream of salt from the distributing member above it.

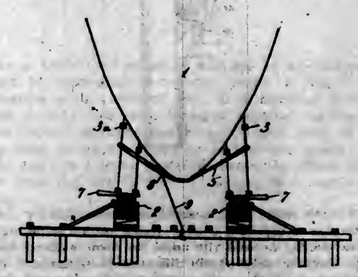
8. A device for substantially evenly distributing a substantially vertical descending stream of salt in a vertical plane, comprising a substantially vertical distributing board, a triangular member mounted on said board and having its apex directed upwardly to receive the descending stream of salt and divide it equally, rows of laterally adjustable triangular distributing members secured to said board below the first-mentioned triangular member, each being adapted to receive and subdivide a divided stream of salt from the distributing member above it, and pins to receive and break up the streams of salt falling from the lowermost row of distributing members.

1,394,222. TABLE. GEORGE SAUER, Orleans, Ind. Filed Dec. 21, 1920. Serial No. 432,271. 1 Claim. (Cl. 45—9.)



A table comprising a rectangular shaped frame, a pivoted cover pivoted to said frame substantially centrally thereof, a hinged leaf hingedly connected to one of the edges of the pivoted cover, said pivoted cover and hinged leaf when transversely disposed uncovering one end of the rectangular shaped frame, a detachable leaf for covering said uncovered end, the under face of said detachable leaf being provided with spaced cleats having their outer ends extending beyond the inner edge of the detachable leaf and underlying the pivoted cover, the rear ends of said cleats engaging the inner side of the rectangular frame for holding the detachable leaf against outward movement, stops carried by the frame and engaging the sides of the spaced cleats and preventing longitudinal movement of the detachable leaf, said cleats and stops providing means for preventing pivotal action of the table top as a whole.

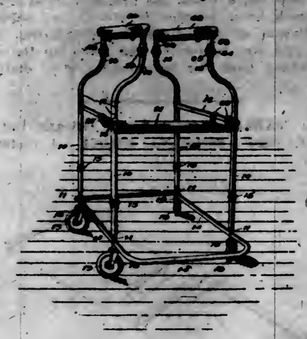
1,394,223. RELEASING DEVICE FOR LAUNCHING-CRADLES. JOHN JOSEPH SCOLLAN, Newark, N. J. Filed May 3, 1920. Serial No. 378,583. 5 Claims. (Cl. 61—66.)



1. A launching cradle for ships comprising an after-poppet for each side of the ship, means for securing said

poppets together while the ship is on the ways, and means cooperable with the ways for automatically releasing said poppets from each other during the launching operation whereby the poppets float off to the sides of the launched ship.

1,394,224. ROLLING CRUTCH. MILTON DARNELL SCOTT, Kewanee, Ill. Filed Jan. 10, 1921. Serial No. 436,220. 2 Claims. (Cl. 155—22.)



1. A rolling crutch comprising a frame including corner uprights having inwardly offset upper extensions, arm rests connected to the upper ends of said extensions in laterally adjustable relation, side hand rails adjustably connected to and extending between the uprights below their said extensions, and a seat bar adjustably engaged at opposite ends with the said hand rails and movable along the full length of the latter, said extensions of said uprights projecting freely above the hand rails whereby to leave unobstructed arm spaces below the arm rests.

1,394,225. WRENCH. ADOLPHUS M. SHANK, ANDREW SALTZER, and LOUIS SALTZER, Calexico, Calif.; said Andrew Saltzer and said Louis Saltzer assignors of one-sixth of the entire right to said Shank. Filed Jan. 3, 1921. Serial No. 434,690. 1 Claim. (Cl. 81—148.)



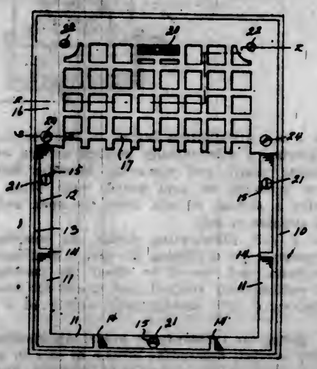
A wrench comprising a shank, a sleeve slidably thereon and having a tapering pocket and a shank engaging portion extending beyond the same to form a hand hold, a wedge block in said pocket adapted to adjustably clamp said sleeve to said shank, said sleeve being slotted, and an operating member projecting from said block through said slot and conveniently positioned with relation to said hand hold.

1,394,226. WRENCH. ADOLPHUS M. SHANK, ANDREW SALTZER, and LOUIS SALTZER, Calexico, Calif.; said Andrew Saltzer and said Louis Saltzer assignors of one-sixth of the entire right to said Shank. Filed Jan. 3, 1921. Serial No. 434,700. 3 Claims. (Cl. 81—130.)



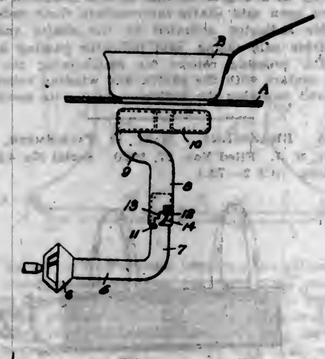
1. A wrench having a shank and a jaw fixed on one end thereof, a sleeve arranged for sliding movement on said shank, a jaw pivotally mounted on said sleeve and having a portion that is adapted to interlock with parts of the shank, means for yieldably urging pivotal movement of said jaw relative to said sleeve, to cause interlocking of the jaw and shank, and a keeper carried by the sleeve and adapted to retain the jaw in interlocking engagement with said shank.

1,394,227. HEATING OR VENTILATING REGISTER. JAMES H. SHENTON, Nashua, N. H. Filed May 22, 1920. Serial No. 383,474. 5 Claims. (Cl. 98—52.)



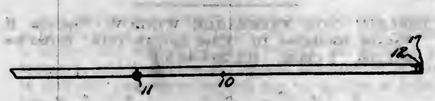
3. An outer border frame for registers right angular in cross section to provide a border wall, and an inwardly projecting attaching flange, the outer face of the border wall being flat throughout the depth of the wall, the inner edge of the border wall being rabbeted along its entire length, and the attaching flange having screw openings whereby it may be attached to a supporting structure, a register plate fitting within the border wall and resting upon the shoulder formed by the rabbet on the border wall, the register plate having a thickness equal to the depth of the rabbet, and a rectangular frame carried by said register plate and extending into the space defined by the border frame and having dampers.

1,394,228. BURNER. JAMES B. SHERIDAN, Pittsburgh, Pa. Filed Sept. 28, 1920. Serial No. 413,357. 6 Claims. (Cl. 158—99.)



6. A burner comprising a vertically movable burner tube and a stationary mixer tube, a sliding telescoping connection between the burner tube and the mixer tube, the telescoping end of the burner tube being provided with a helically arranged slot, a pin on the mixer tube adapted to engage the edges of the slot, and a series of steps arranged on the upper edge of said helical slot, said steps being adapted for selective engagement with the pin to support the burner tube in any one of a plurality of different vertical positions.

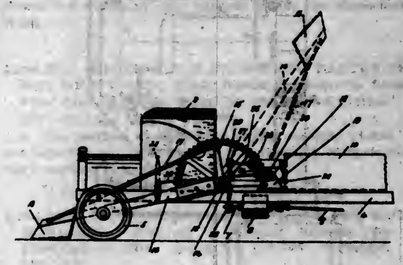
1,394,229. MEASURING INSTRUMENT. ROY C. SHOWALTER, Altoona, Pa. Filed Sept. 26, 1919. Serial No. 326,447. 1 Claim. (Cl. 33—107.)



A folder rule having one end provided with a marking tip consisting of a body having spaced apart wings for receiving between them said end of the rule, said body also having a tapering knife blade portion offset from one side only thereof, said knife blade portion extending transversely of the entire end of the rule and located in the outside face of the rule when the latter is in its folded position.

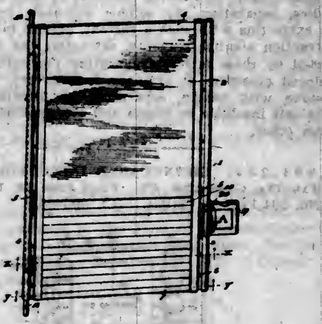
1,394,230. POWER-SHOVEL. FREDERICK E. SILLS, Statesville, N. C., assignor of one-half to Carolina Motor Company, Statesville, N. C. Filed June 2, 1920. Serial No. 386,122. 2 Claims. (Cl. 214—78.)

1. In a power shovel, a motor car provided with a frame, a rock-shaft mounted in bearings on the frame, a receptacle for dirt arranged on the frame to the rear of the rock-shaft, toothed segments secured on the end portions of the rock-shaft, arms secured to the toothed segments, a shovel secured between the free end portions of the said arms and adapted to scrape up road material in front of the motor car, a driving shaft journaled in the frame to the rear of the rock-shaft, toothed pinions secured on the end portions of the said driving shaft and gearing into the said toothed segments, a worm wheel secured on the said driving shaft, a countershaft supported by the frame, a worm mounted loosely on the countershaft and gearing into the worm wheel, means for revolving the countershaft in each direction, a clutch



member revolving with the worm, and a slidable clutch member revolving with the countershaft and adapted to revolve the aforesaid clutch member and the worm.

1,394,231. LISTING DEVICE. CYRIL A. SOANS, Chicago, Ill., assignor, by mesne assignments, to Acme Card System Company, a Corporation of South Dakota. Filed May 28, 1914, Serial No. 841,450. Renewed Aug. 2, 1918. Serial No. 248,074. 5 Claims. (Cl. 40—102.)

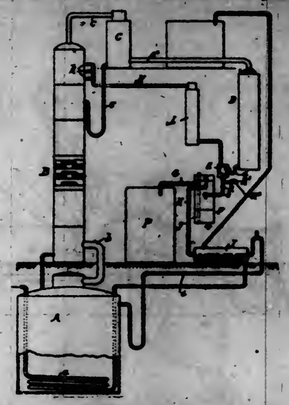


1. In a holder for members adapted to be removably retained by springing their edge under a flange, the combination with a central web, of a marginal member secured to said web, said marginal member having depressed central portions engaging opposite faces of the web, a bead member adapted to inclose and protect the edge of the web and an inwardly extending offset flange spaced from the web to receive the end of a member to be held.

1,394,232. PROCESS OF SEPARATING PARTLY MISCIBLE COMPOUNDS. ARTHUR STEVENS, Buffalo, N. Y. Filed Mar. 10, 1920. Serial No. 364,697. 6 Claims. (Cl. 23—24.)

1. The hereindescribed process of separating partly miscible constant boiling point compounds, consisting of

distilling a mixture of the compounds thereby producing a distillate containing a mixture of said compounds and an

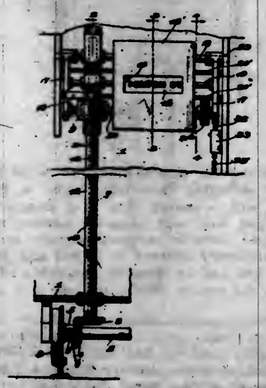


excess of one of said compounds, separating said compound from said mixture, and returning said separated mixture to the mixture which is being distilled.

1,394,233. HIGHLY-ACTIVE PREPARATION OF ERGOT AND PROCESS OF MAKING SAME. ARTHUR STOLL, Basel, Switzerland, assignor to Chemical Works formerly Sandoz, Basel, Switzerland. Filed Apr. 11, 1919. Serial No. 289,422. 4 Claims. (Cl. 167—9.)

1. The herein described process for the manufacture of a highly active preparation of ergot, consisting in adding to the drug acid reagents in order to make the valuable basic substances insoluble in solvents for fatty bodies, separating the soluble non-basic substances by an extraction with such a solvent, adding to the mass of extraction alkaline reagents, extracting the alkaloids liberated by these latter, evaporating the extract under a reduced pressure at ordinary temperature, treating the residue with benzin, separating by filtration the raw alkaloids insoluble in benzin and recrystallising the same from ether.

1,394,234. CHANGEABLE INDICATOR. CARMINE TALOTTA, Clementon, Pa. Filed June 23, 1920. Serial No. 391,141. 7 Claims. (Cl. 40—95.)



1. An indicator for railway cars comprising separated swinging frame members, said frame members receiving a plurality of shafts, one shaft passing entirely through openings in the frame members and adapted to enter sockets in the car to support said frame members for a swinging movement, gears carried by the shafts, a driven shaft actuated by the movement of the car having a gear cooperating with a gear on one of said shafts, a casing suspended upon said shafts intermediate their ends, and a movable indicator actuated by the shafts and disposed within said casing, said indicator passing around the shafts, pressing rollers for maintaining the indicator in contact with the shafts, and winding rollers for feeding and receiving the indicator during its movement.

1,394,235. BRASSIÈRE. MARY D. TATE-SMITH, West Orange, N. J. Filed Nov. 27, 1920. Serial No. 426,696. 4 Claims. (Cl. 2—73.)



1. In a brassière, the combination of an elastic body supporting band, a cover enveloping the body band and flexible securing bands attached to the body supporting band and cover.

1,394,236. QUICK METHOD FOR BREWING SOY. MEIJIRO TOGANO, Tokyo, Japan. Filed Feb. 19, 1920. Serial No. 359,856. 5 Claims. (Cl. 195—20.)

1. A rapid method of soy brewing consisting in salting soy-bean-koji with salt-water of about 20 degrees Baumé, maintaining this mixture at a temperature of approximately 40 degrees C. in order to decompose the albumin, and extracting the soy from said mixture.

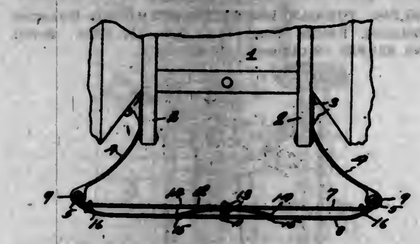
1,394,237. NON-FREEZABLE WINDOW. HECTOR B. VALADE, Kankakee, Ill. Filed Apr. 18, 1919. Serial No. 291,106. 1 Claim. (Cl. 20—40.5.)



The combination of a window sash having a glass therein, of an auxiliary window sash smaller than the window sash of the main window and having a glass therein, said auxiliary window sash having its sides equally spaced from the inner edges of the sides of the main window sash but adjacent thereto, a gasket carried by the inner face of the auxiliary sash and so disposed that it will engage the glass of the main sash adjacent the edge thereof, said gasket being so constructed that upon adjusting the auxiliary sash inwardly the gasket will spread outwardly into engagement with the inner edge of the main sash thereby protecting the glass of the main sash from the outside atmosphere and means carried by the main sash and auxiliary sash for adjustably securing said sashes together and causing the gasket to be forced outwardly into engagement with the inner edge of the main sash.

1,394,238. AUTOMOBILE-BUMPER. EDMOND VERLOOVE, Bad Axe, Mich. Filed July 26, 1921. Serial No. 487,595. 1 Claim. (Cl. 293—55.)

The combination with an automobile frame, of a spring bumper therefor, said bumper comprising forwardly and outwardly extending horizontally disposed spring arms, the outer ends of said arms terminating in inwardly extending horizontally disposed spaced ears, spring bars having their ends interengaged and pivoted between the spaced ears of the spring arms, said spring bars being spaced apart, a bowed spring secured to one of said spring bars



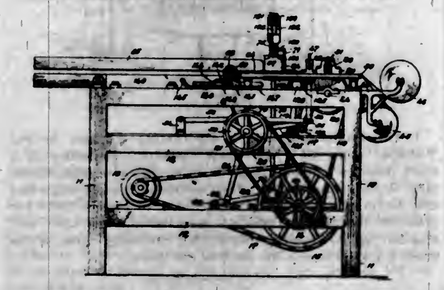
and having its ends slidably engaging the adjacent face of the other spring bar, ears carried by the ends of said bowed spring and overlying the edges of one of the spring bars, and slidable collars carried by the spring bars adjacent their ends and forming means whereby the tension of the bowed spring may be varied by holding the spring bars in various spaced positions in relation to each other.

1,394,239. CLOTHESLINE-BRACKET. PHILIP J. G. VETTER, Brooklyn, N. Y. Filed Dec. 1, 1919. Serial No. 341,740. 5 Claims. (Cl. 68—3.)



1. A clothes line support comprising a bracket adapted to be secured to a window frame and having a slot therein, a clothes line supporting bar pivotally and slidably attached to said bracket, a pin on said bar adapted to work in said slot, and means on said bar for guiding a clothes line.

1,394,240. MACHINE FOR WRAPPING ARTICLES. CARL O. WACHTER, Wheeling, W. Va. Filed Oct. 14, 1919. Serial No. 330,627. 7 Claims. (Cl. 93—2.)

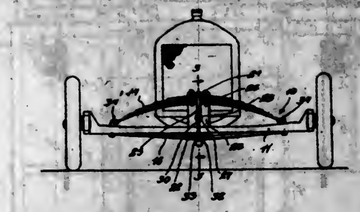


1. In an automatic machine for wrapping articles, wrapping material feed mechanism, article feed mechanism, a reciprocating box for transferring the articles from the article feed mechanism and depositing them in a position to be wrapped, angle plates hinged to the box, a portion of each of said plates underlying said box for supporting an article therein, plates carried by the angle plates and adapted to engage a portion of the machine for swinging the angle plates to a releasing position from under the box when the box reaches its limit of movement in one direction, means for engagement with said last named plates to return the angle plates to normal position when the box reaches its limit of movement in the other direction, and means for wrapping the material about the deposited articles.

1,394,241. METHOD FOR PRODUCING PASTES THAT MAY BE POURED. EMIL WEBER, Schweppnitz, Saxonia. Filed June 15, 1920. Serial No. 389,253. 4 Claims. (Cl. 106—38.)

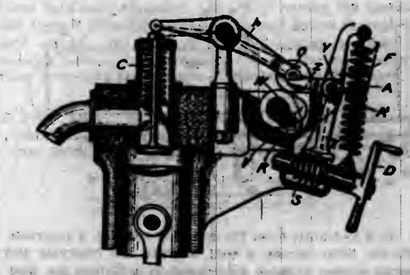
4. The method of rendering liquid ceramic pastes that are liquefied with difficulty by alkali which comprises adding a saponin thereto.

1,394,242. UNDERSLUNG ATTACHMENT FOR MOTOR-VEHICLES. WILLIAM G. WEBAT, Kansas City, Mo. Filed Oct. 14, 1919. Serial No. 330,646. 3 Claims. (Cl. 180—1.)



1. An underslung attachment for motor vehicles comprising means for supporting the rear spring of the machine whereby the terminals thereof are secured at points rearwardly of the adjacent axle, a substantially Z-shaped bracket having one end secured to the machine and its opposite end arranged in advance of the latter, means for securing the front spring of the machine to the latter mentioned end of the bracket with the body of the bracket arranged between the spring and radiator, a radius rod terminally connected with the adjacent extremities of the front spring, and the body portion of the bracket having an opening beneath the spring for the purpose specified.

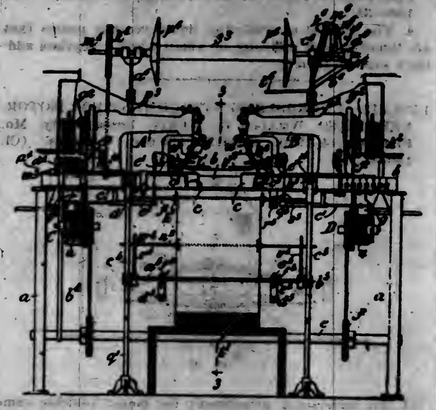
1,394,243. REVERSING-GEAR FOR INTERNAL-COMBUSTION ENGINES. HANS WIEDERKEHR, Zurich, Switzerland, assignor to The Firm of Schweizerische Lokomotiv & Maschinenfabrik, Winterthur, Switzerland. Filed Nov. 3, 1920. Serial No. 421,575. 2 Claims. (Cl. 123—41.)



1. A reversing gear for internal combustion engines, comprising a cam shaft adapted to be axially displaced and provided with ahead and astern cams, a roller coacting with either of said cams, a rocking lever for transmit-

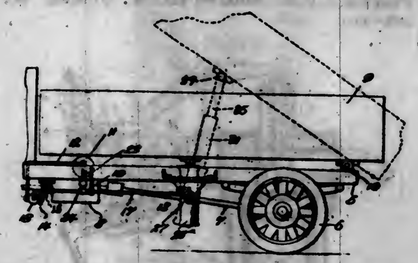
ting the cam action to a spring-loaded valve, lifting means operatively connected to said roller, and an auxiliary spring combined with said lifting means to compensate the antagonistic action of the valve spring.

1,394,244. MACHINE FOR HEMSTITCHING FABRICS. Montague Adair, Brooklyn, and William Prescott Snyder, New York, N. Y., assignors to Adair Machine Company, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 29, 1911, Serial No. 617,804. Renewed Mar. 18, 1921. Serial No. 453,475. 7 Claims. (Cl. 112—2.)



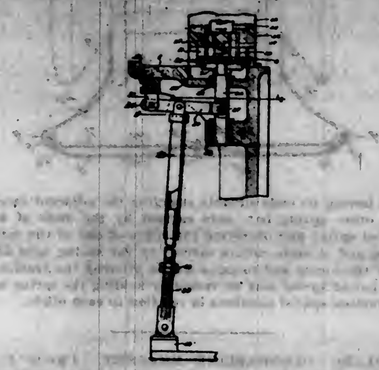
1. In an automatic sewing machine or the like, the combination of a pair of non-rotative bars over which the fabric is led, an adjustable edge turning device for turning up the side of the fabric, said edge turning device comprising a pair of rods mounted to turn the edge of the fabric, one of said rods having an angular portion overlying the body of the fabric, a hem folder comprising a scroll member having a tapering portion from the entrance toward the exit, and said hem folder having a wide upper plate adapted to lie across the top of the fabric, and a take-up mechanism comprising a freely movable rod beneath which the cloth passes, and means for removing the surplus cloth beyond said rod.

1,394,245. HYDRAULIC HOIST FOR DUMPING-VEHICLES. George W. Berry, Kane, Pa. Filed June 9, 1919. Serial No. 302,880. 2 Claims. (Cl. 298—22.)



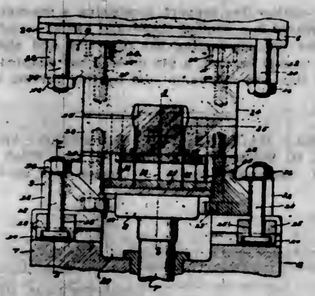
1. In a hydraulic hoist for dumping vehicles, a reservoir, hydraulic hoist means, a lead between the reservoir and hoisting means, a pump interposed in said lead for feeding liquid to the hoisting means under pressure from the reservoir, a pipe connecting the portion of the lead between the pump and hoisting means with the reservoir, an automatic relief valve within the pipe and adapted to be automatically actuated when the pressure between the pump and hoisting means exceeds a predetermined value to permit the liquid to return to the reservoir and a return pipe connecting the reservoir with the lead between said pump and hoisting means and having a restricted passage.

1,394,246. DIE-CASTING EJECTOR. Balthar Emanuel Bolling, Racine, Wis. Filed Jan. 15, 1920. Serial No. 351,639. 8 Claims. (Cl. 22—94.)



1. The combination with a die casting machine having a reciprocal head carrying a die part provided with ejector openings, of means for positively ejecting castings from said die part, comprising means extending into said openings and movable therethrough after said reciprocal head has reciprocated a predetermined distance.

1,394,247. DIE-BLOCK. Balthar Emanuel Bolling, Racine, Wis. Filed Jan. 15, 1920. Serial No. 351,640. 7 Claims. (Cl. 22—57.)

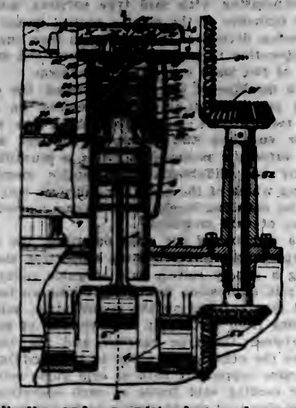


1. In combination with a die casting machine having T-shaped slots, of a die block therefor, consisting of a block member of rectangular form having a comparatively large ejector opening extending vertically therethrough and also having projecting apertured ears to receive bolts for attachment to the T-shaped slots of the machine and also having bolt openings extending vertically through the block for attaching a die part to the block.

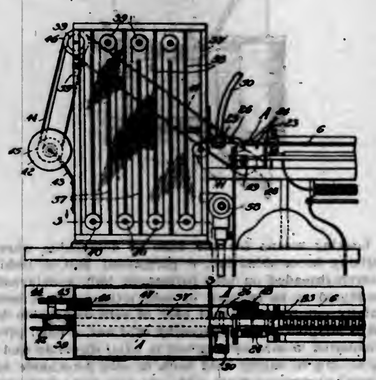
1,394,248. VALVE FOR INTERNAL-COMBUSTION ENGINES. Everett R. Burtnett, Los Angeles, Calif., assignor of one-half to Homer A. Brunell, Los Angeles, Calif. Filed Feb. 25, 1920. Serial No. 361,272. 7 Claims. (Cl. 123—75.)

1. In an internal combustion engine, a piston cylinder with a water jacket immediately surrounding its body and

said chamber extending in a compression pocket part having inlet and outlet ports and having a chambered diametrical head; the said ports being arranged substantially helically; and concentric sleeve valves surrounding the head and controlling the inlet and exhaust of fuel and gases into and from the compression pocket.



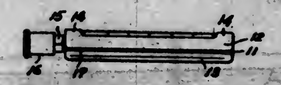
1,394,249. DRIER FOR MOTION-PICTURE FILMS. John G. Capstaff, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Original application filed Mar. 29, 1918, Serial No. 225,388. Divided and this application filed Apr. 2, 1920. Serial No. 370,847. 1 Claim. (Cl. 34—48.)



In a machine for treating continuous lengths of motion picture film, a drier comprising a casing and upper and lower guides therein over which the film may be passed in successive loops, partitions connecting one set of guides with the opposite wall of the casing and alternating partitions having their ends spaced from the other set of guides to form a sinuous passage for the film and means for moving a current of air through said passage on one side of the film.

1,394,250. CIGARETTE-MAKING MACHINE. Castellani Cesare, Montreal, Quebec, Canada. Filed Jan. 26, 1920. Serial No. 354,022. 1 Claim. (Cl. 131—5.)

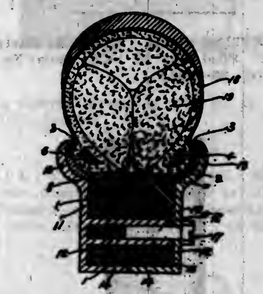
In a cigarette making machine, a pair of hingedly connected members movable into position to form a tube having a longitudinal opening for the gummed edge of a cigarette paper, one of said members being provided at the hingedly connected portion thereof with stop lugs adapted to limit separation of the members, the other of



said members being provided opposite the hingedly connected portion thereof with a projecting lip lying outside of the longitudinal opening and forming a support for the gummed edge of the cigarette paper, and a forming plate movable within said members.

1,394,251. [WITHDRAWN.]

1,394,252. TIRE-RIM FOR USE ON AUTOMOBILES AND OTHER VEHICLES. Thomas William Costello, San Francisco, Calif. Filed July 24, 1919. Serial No. 313,047. 1 Claim. (Cl. 152—7.)



A pressure clamp for securing a circumferentially divided clencher rim to a wheel felly comprising a pair of complementary plates adapted to be engaged with opposite sides of the felly, each of said plates having its outer end extended beyond the felly and bent in a curvilinear manner to embrace one of the rim flanges, the inner ends of said plates being directed inwardly at right angles to extend across the inner side of the felly in engagement therewith and to a point located substantially midway the width of the felly, one of said plates having a right angularly directed hollow sleeve integral with the inner face thereof and adapted to extend transversely through the body of the felly in the direction of the opposite plate, said last-mentioned plate having an opening corresponding in diameter to the bore of the said sleeve and alined with the said bore to provide an entrance thereto, said sleeve being internally threaded, and a bolt having the threaded end thereof threadedly engaged in said sleeve through the said opening, the head of the bolt serving to close the opening against the entrance of dust, dirt and the like, thus protecting the threads of the bolt and the sleeve.

1,394,253. WINDOW-CATCH. Matts Dahlgren, Falköping-Ranten, Sweden. Filed July 21, 1920. Serial No. 397,856. 1 Claim. (Cl. 292—202.)



An element for attachment to a window frame and having a downwardly narrowing recess in its upper side, and a catch arranged to be placed between the window post and the window and provided on one of its broad sides with notches which enable said catch to be adjustably engaged in said recess of said element.

1,394,254. SUN AND RAIN SHIELD FOR AUTOMOBILES. WILLIAM H. DAMOW, Los Angeles, Calif. Filed Jan. 31, 1919. Serial No. 274,297. 1 Claim. (Cl. 296—95.)



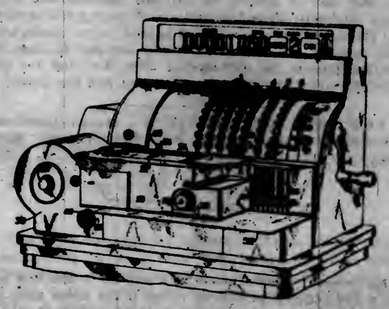
The combination with windshield supporting members, of inverted L-shaped brackets having the lower ends of their vertical legs pivotally and adjustably connected to the upper portions of said windshield supporting members, and a corrugated metal plate having its ends secured to the horizonal arms of said invered L-shaped brackes.

1,394,255. TESTING-MOLD. HELEN M. DAVIS, Washington, D. C. Filed Sept. 23, 1920. Serial No. 412,827. 7 Claims. (Cl. 25—122.)



1. A testing mold blank for cement and concrete mixes comprising a longitudinally slit paper or pasteboard tubular mold uniform and symmetrical throughout its length and coated with a waterproofing substance, whereby a plurality of such molds may be nested.

1,394,256. CASH-REGISTER. FREDERICK L. FULLER, Bridgeport, Conn., assignor to The National Cash Register Company, Dayton, Ohio. Filed Apr. 24, 1918. Serial No. 230,455. 94 Claims. (Cl. 235—3.)

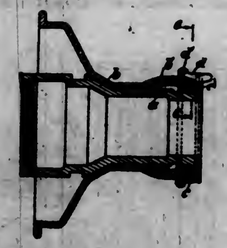


13. In a machine of the class described, the combination of a plurality of type carriers, a main operating mechanism, means operated by the main operating mechanism for moving the type carriers, differentially manipulative means controlling the extent of movement of the differential means, printer control means, two impression devices coöperating with said type carriers, and means under the influence of the printer control means causing the impression devices to change at will from their single printing operation to a plurality of operations during an operation of the main operating mechanism.

75. In a machine of the class described, the combination of a plurality of accounting devices, an actuator therefor, manipulative means controlling the actuator, means for engaging the accounting devices with the actuator, automatic means comprising a plurality of independently and differentially adjustable members for determining which of the accounting devices will be operated by the engaging means, and means controlling the adjustment of said members.

90. In a machine of the class described, the combination of type carriers, record strip supporting mechanism comprising a supply roll, a pair of guide rollers and a receiving roll, impression means for taking an impression from said type carriers on the record strip, said record strip passing from the supply roll over one of said guide rollers between the type carriers and the impression means over the other guide roller to the receiving roll, a pivoted frame supporting both of said guide rollers, and means for rocking said frame at each operation of the machine to give said record strip a backward and forward movement relative to the type carriers.

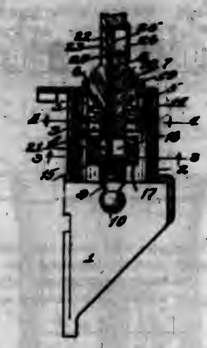
1,394,257. LOCKING DEVICE FOR DETACHABLE-WHEEL HUBS. MAX HEBING, Rosneberg, Germany. Filed Dec. 27, 1920. Serial No. 433,543. 3 Claims. (Cl. 301—9.)



1. Locking means for the hubs of detachable wheels, comprising in combination, a permanent hub, a locking nut screw-threaded on said permanent hub, a detachable hub adapted to be engaged by said locking nut, a series of axially cut teeth on that part of said detachable hub which is adapted to be engaged by said nut, a pawl pivotally mounted in said locking nut in axial direction and so as to be able to engage said teeth in said detachable hub, said pawl protruding from said nut so as to be taken hold of by hand for the purpose of being disengaged from said teeth by swinging said pawl axially upward, and resilient means mounted in said nut and adapted to act upon said pawl in the locking position only, whereby said pawl is enabled to remain stationary in the swung up position while the same is out of engagement with said teeth on said hub so that then said nut can be tightened up and adjusted.

1,394,258. GEAR-SHIFT-LEVER LOCK. COLVIN L. JOHNSON, Chicago, Ill., assignor to Johnson Automobile Lock Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 27, 1919. Serial No. 273,881. 9 Claims. (Cl. 70—128.)

3. In a gear shift lever lock the combination with a stationary plate having an opening therein, a gear shift lever projecting through the opening in said plate, and locking means on said lever below said plate adapted to be elevated



to engage in said opening to hold the lever in locked position.

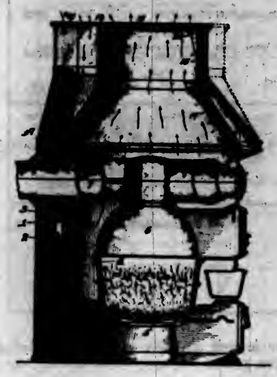
1,394,259. AUTOMOBILE-TIRE-LOCK CABLE. COLVIN L. JOHNSON, Chicago, Ill., assignor to Johnson Automobile Lock Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 6, 1920. Serial No. 356,737. 5 Claims. (Cl. 28—5.)



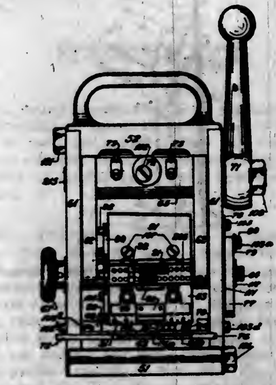
1. An armored cable comprising a core member, a plurality of passaged intermediate cable links engaged on said core member, a terminal head in engagement with one of the end intermediate links, a wedge plug engaged on one end of said core member and driven into said terminal head to hold the core member secured in said terminal head, a second terminal head interfitting the other intermediate end link, a plug member therein, and a wedge plug engaged on the other end of said core member and driven into said plug member to tension the core member for holding the intermediate cable links in coacting interfitting relation.

1,394,260. DUPLEX GRATING FOR PIPELESS FURNACES. WESLEY J. JOHNSON, Chicago, Ill. Filed Mar. 27, 1919. Serial No. 285,514. 5 Claims. (Cl. 98—49.)

2. A duplex grating for use with pipeless furnaces having a warm air jacket and a cold air jacket substantially surrounding the same at its emergent end, comprising a cold air section having a marginal portion, and a warm air section lying within said cold air section and substantially touching said marginal portion on one side of the grating, the warm air section being entirely surrounded by the cold air section except at said touching point, whereby to cause the cold air to pass downwardly outside of the hot air section on all sides except at the said touching side to prevent passage of cold air to non-heating portions of the furnace.



1,394,261. EMBOSSING-MACHINE. MATTHEW H. LOUGHRIDGE, Bogota, N. J., assignor to Atlas Railway Signal Company, a Corporation of New Jersey. Filed July 30, 1919. Serial No. 314,330. 15 Claims. (Cl. 101—3.)

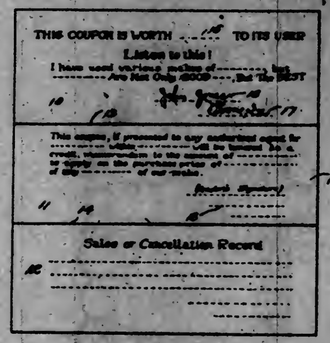


1. In an embossing machine of the class described, a type rotor arranged for vertical movement and having a plurality of legs, a shaft for said rotor having a plurality of flat sides corresponding with the legs of said rotor and a spring controlled member engaging the flat sides of said shaft to position the legs of said rotor.

1,394,262. COUPON SYSTEM. EUGENE STEBBINGS, Des Moines, Iowa. Filed June 22, 1921. Serial No. 479,618. 1 Claim. (Cl. 283—60.)

A coupon comprising three sections, each section being provided with data relating to the use thereof, the first section being provided with a testimonial statement referring to the goods for which the coupon is used, the

second section being provided with a statement of the vendor of the goods used with the coupons as to the



worth of the coupon and the third section being a sales or cancellation record for the coupon all for the purposes specified.

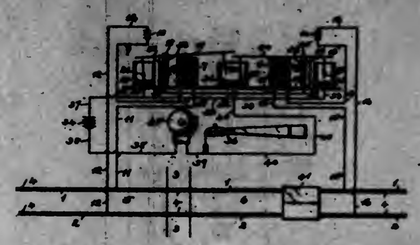
1,394,263. JACK FOR AUTOMOBILES AND THE LIKE. JOHN A. ADELL, Orange, Mass., assignor to The Adell Manufacturing Company, Inc., Orange, Mass., a Corporation of Massachusetts. Filed Apr. 11, 1921. Serial No. 460,204. 6 Claims. (Cl. 254—111.)



1. In a jack, the combination with a casing, a rack movable up and down in the casing, and a handle lever for operating the rack, of an operating pawl pivoted to the end of said operating lever, a second pawl pivoted at a stationary point, a single spring coiled around the pivot of the second pawl, each end forcing one of said pawls toward the rack, and a stronger spring pivoted on the pivot of the first named pawl and movable with the handle lever for pushing the operating pawl from the rack as it descends and allowing the first named spring to move it against the rack as it ascends.

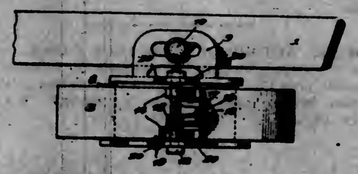
1,394,264. ROADWAY-CROSSING SIGNAL. CHARLES ADLER, Jr., Baltimore, Md. Filed Feb. 14, 1920. Serial No. 358,769. 2 Claims. (Cl. 246—128.)

1. In a signal device for railway crossings the combination with the track-rails formed into separated insulated sections at opposite sides of a crossing-point, a relay for one section said relay having a connection with a current-supply and another connection with one of the track-rails; another connection from said current-supply to the other track-rail of said section; a relay for the other insulated track-section and said latter relay having connection with a current supply and the two rails of said other track section; an armature for each relay and each armature having a front contact-point and a back contact-point said armatures being arranged so that when both



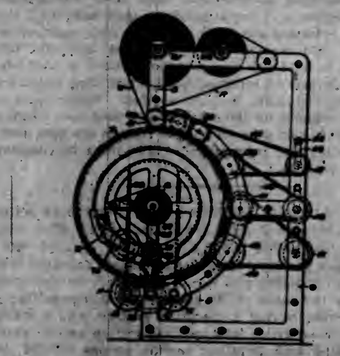
are down one will engage and hold the other; a signal device, and a signal circuit including the front point of one armature, the back point of the other armature and the signal device when the armatures are in reverse positions.

1,394,265. PICK-STICK CHECK. JAMES AUGUSTUS ANDREWS and JOHN WILLIAM HERBERT, Biddeford, Me. Filed Nov. 10, 1920. Serial No. 423,069. 5 Claims. (Cl. 139—22.)



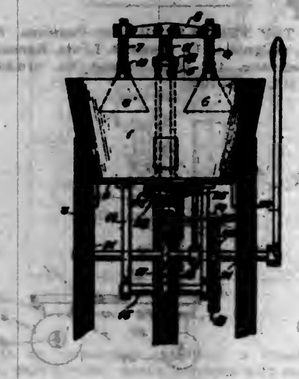
In a pick stick check, a check strap, a guide therefor, a reversible pivoted cam carried by the guide, an upper and a lower pair of spring anchors, a spring connected to the cam pivot for tensioning the latter, an eye on one end of the spring engaged with any one of the anchors of the pairs thereof, and a screw adjustably connected to the cam, the other end of the spring being formed to engage in the kerf of the screw and being removable therefrom to allow of adjustment of the screw to adjust the latter and thereby the tension of the spring.

1,394,266. WRAPPING OR PACKAGING MACHINE. EDWARD H. ARGIES, Framingham, Mass. Filed Dec. 31, 1917. Serial No. 209,642. 22 Claims. (Cl. 93—2.)



1. A machine for wrapping toric articles comprising means for gathering the fullness of a sheet of wrapping material to shape it about the sides of the article and a folding mechanism approximating the form of the article through which the article and said sheet are advanced to smooth the gatherings about the article.

1,394,267. WASHING-MACHINE. WILLIAM C. BASSEL, Providence, R. I. Filed May 5, 1921. Serial No. 466,955. 6 Claims. (Cl. 74—14.)



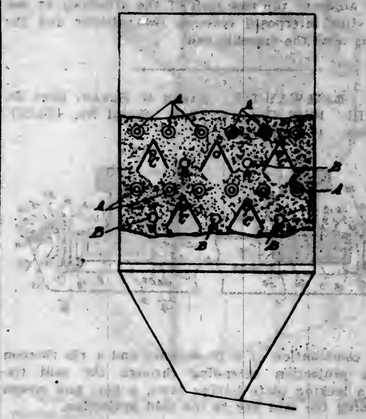
1. In combination with a driving shaft and a rotatable and vertically movable member having a ratchet thereon, a pawl carrying arm on the shaft, and having the pawl thereof engaged with the ratchet to operate the latter, a yoke swiveled on said member, a wheel, a flexible connection between the yoke and wheel for winding upon the latter, a driving connection between the shaft and wheel, and means to oscillate the driving shaft.

1,394,268. NON-SKID DEVICE. BAILEY OWEN BRADLE, Atlantic, Iowa. Filed Nov. 26, 1920. Serial No. 426,591. 9 Claims. (Cl. 301—46.)



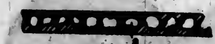
3. In a device of the class described, non-skid members pivotally mounted on the wheels of an automobile, members for locking said non-skid members in operative position, yielding means for holding said non-skid members in inoperative position, and means for either moving said non-skid members from operative position to inoperative position, or inoperative to operative position, said last means including a pair of shafts slidably mounted, a pivoted lever pivoted to the ends of said shafts whereby movement of said lever will impart a sliding movement to said shafts in opposite directions, the free ends of said shafts being provided with members designed to engage the non-skid members, a spring for moving said lever in one direction and a second lever for moving said first lever in the opposite direction.

1,394,269. APPARATUS WITH SEVERAL TUBES FOR TREATING PULVERULENT MATERIALS. Armand PAUL EDOUARD BOURDET, Paris, France. Filed Jan. 10, 1920. Serial No. 350,715. 2 Claims. (Cl. 34—34.)



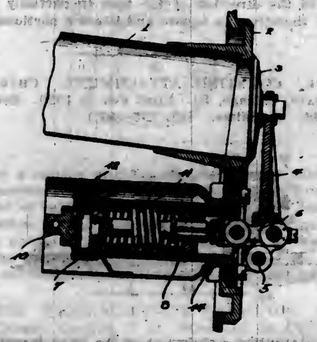
2. Apparatus for treating pulverulent materials, comprising thermic tubes, blowing tubes and sucking tubes in spaced relation, and screen between said blowing tubes and said sucking tubes.

1,394,270. ARTIFICIAL TEXTILE FABRIC AND THE PROCESS FOR ITS MANUFACTURE. JAQUES EDWIN BRANDENBERGER, Neuilly-sur-Seine, France. Filed May 18, 1920. Serial No. 382,375. 16 Claims. (Cl. 18—54.)



1. The herein-described process, comprising the steps of emulsifying a viscous solution and a gaseous fluid which is inert to said solution, and expressing the resultant emulsion through a drawing plate to produce an article containing an internal series of bubbles of said fluid.

1,394,271. TORPEDO. EDMUND S. R. BRANDT, Newport, R. I. Filed Mar. 26, 1921. Serial No. 456,000. 1 Claim. (Cl. 114—20.)



In a torpedo, in combination, an exhaust pipe, a valve normally closing said pipe, a spring actuated piston

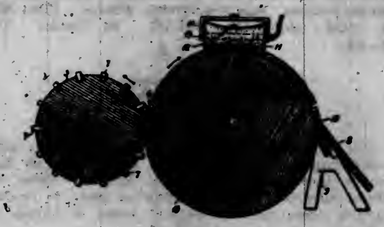
connected with said valve to normally maintain the same in closed position, a cylinder surrounding said spring and piston, means inclosing said cylinder for absorbing the heat radiated from the exhaust pipe, said means being supported adjacent the end wall of the afterbody at one end and clips interposed between the cylinder and the said means near the opposite end.

1,394,272. RAILWAY-TIE. AARON G. BRYAN, East St. Louis, Ill. Filed Dec. 13, 1920. Serial No. 430,221. 14 Claims. (Cl. 238—46.)



1. The combination of a tie-member and a rib thereon having a projection extending through the said tie-member, a locking plate having jaws, a key, and means for fastening the said key to the said projection.

1,394,273. METHOD OF PRODUCING LATHS. ALBERT H. CARRINS, Asheville, N. C., assignor of one-half to Edwin W. Grove, St. Louis, Mo. Filed Dec. 4, 1918, Serial No. 265,275. Renewed Aug. 8, 1921. Serial No. 490,726. 3 Claims. (Cl. 144—309.)



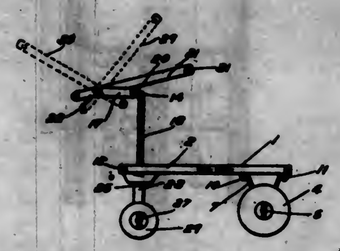
1. A method of producing a lath, consisting in cutting strips of predetermined width and length directly from a log of wood of fibrous and pithy nature, and forming key recesses in the surface of the lath by brushing said surface in the direction of the fiber to partially remove the pith therefrom to expose and liberate portions of the fiber.

1,394,274. COUNTING ATTACHMENT. CHARLES E. CASCRAIN, Chicago, Ill. Filed Feb. 2, 1920. Serial No. 355,544. 5 Claims. (Cl. 235—91.)



1. In a counting attachment of the class described, the combination of a housing having an opening in its bottom wall, counting wheels arranged within said housing, an actuating arm extending downwardly from said counting wheels to said opening, a bar closing said opening, said housing having guide walls for guiding said bar during relative movement between said bar and housing, a yielding pawl ridge on said bar for cooperating with said arm to cause operation of the counting wheels during relative movement between said bar and housing, and means for obstructing operative cooperation of said ridge with said arm during relative movement of said bar and housing, said pawl being yielding whereby it will glide past said arm when obstructed without causing operation thereof.

1,394,275. TOY VEHICLE. ROY C. CASNER, Kansas City, Mo., assignor to Le Grand B. Lewis, Kansas City, Mo. Filed Aug. 11, 1919. Serial No. 316,644. 2 Claims. (Cl. 308—165.)



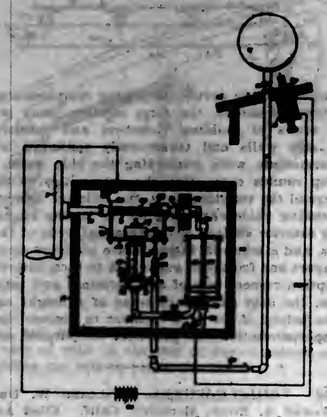
1. In a device of the class described, a seat provided with rear wheels, a rod projecting through the forward part of the seat, an inverted axle-supporting bracket on the lower end of the rod, a latterally propecting portion at the upper end of the rod, a U-shaped member connected to the laterally projecting portion, and a pivoted handle carried by the U-shaped bracket.

1,394,276. REEL. ROBERT CASSIDY, Mansfield, Ohio. Filed Apr. 15, 1921. Serial No. 461,782. 1 Claim. (Cl. 242—101.)



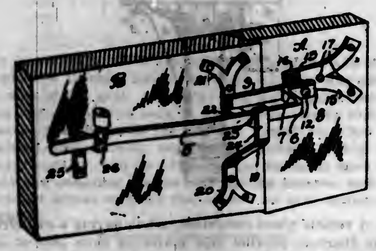
A reel of the character described, comprising a casing having an opening at one end of the maximum width and length of the casing, a ball having its ends secured to the ends of the casing, said ball having bearings in its end, said casing having openings in alinement with the bearings, a spool having disks at its ends, said spool removable through the open end of the casing, a shaft mounted in the bearings and connected to the spool, a crank arm on the shaft, a ratchet wheel on the shaft, a pawl engaging the ratchet wheel, and a line secured at one end to the spool and wound thereon and having its free end movable through the opening of the casing.

1,394,277. AMUSEMENT APPARATUS. FRANK R. CRESPINO, Asbury Park, N. J. Filed Jan. 10, 1921. Serial No. 436,297. 6 Claims. (Cl. 46—56.)



1. In an amusement apparatus, a fragile inflatable object, fluid pressure means connected with the said object to inflate the same, means to burst the inflated object, and actuating means controlling both the said fluid pressure means and the said bursting means.

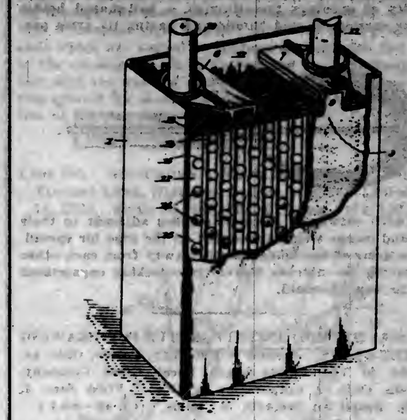
1,394,278. DOOR OPENING AND CLOSING DEVICE. GEORGE C. CIRAC, Fallon, Nev. Filed Nov. 4, 1920. Serial No. 421,705. 5 Claims. (Cl. 292—205.)



1. In a device of the character described, a lever adapted to be mounted adjacent a door to be opened and closed, a bracket adapted to be mounted to the door, said lever embodying in its construction a pair of spaced parallel sections adapted to assume a position within an upwardly presented end on the bracket, said lever adapted to be swung to and from the door with one of the said parallel sections bearing against the door for closing the same and adapted to impart a pull on the bracket to open the door.

1,394,279. SEPARATOR-PLATE FOR STORAGE BATTERIES. FRANK A. COLEMAN and JOSEPH J. HOFFMANN, Denver, Colo. Filed Mar. 12, 1921. Serial No. 451,923. 6 Claims. (Cl. 204—29.)

1. A spacing plate for battery plates, comprising a rubber plate provided with closely arranged recessed grooves in one of its surfaces, and provided with a multitudinous number of wooden disks extending through

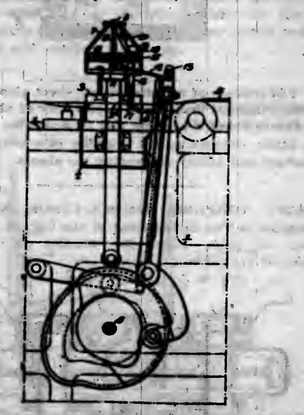


it, and means for securing said wooden disks in said rubber plate.

1,394,280. COATING COMPOSITION. FRANK COOK, Council Bluffs, Iowa. Filed July 9, 1920. Serial No. 395,160. 3 Claims. (Cl. 134—46.)

1. A coating composition adapted to be applied over water color paint or calcimine and consisting of starch, glycerin, water and coloring material.

1,394,281. COATING-MACHINE. WILLIAM COSTELLO, Jr., Philadelphia, Pa. Filed May 21, 1920. Serial No. 383,096. 5 Claims. (Cl. 91—3.)



1. In a coating machine, the combination with a tank, of a movable frame having a platform adapted to move in and out of said tank, a scraper mounted on said frame, mechanism for reciprocating said scraper across the face of the platform, and means independent of said mechanism for shifting the scraper to one side of the platform when the scraper is disconnected from said mechanism.

1,394,282. WASHING DEVICE FOR AUTOS. WILLIAM H. CROSBY, Corning, N. Y. Filed Apr. 26, 1920. Serial No. 376,236. 2 Claims. (Cl. 15—51.)

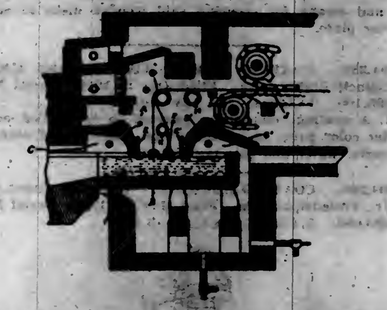
1. A device of the class described comprising a water conducting pipe terminating in an apertured nozzle hav-

ing the other end flipped, a flexible connecting cord fixed to the pipe, a cap secured to the outer end and having a plurality of openings therethrough, a bell-shaped holder member carried by said handle and having its arms pro-



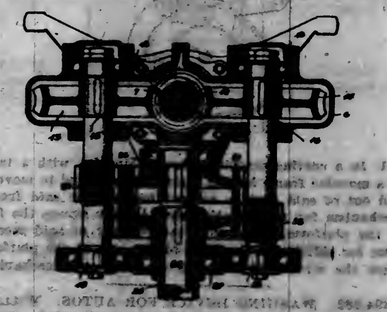
vided with outwardly disposed notches adjacent to their ends, and means slidably mounted on the pipe for spreading the arms of the holder member away from each other and forcing the notches thereof into locking engagement with the cap aforesaid.

1,394,283. METHOD AND APPARATUS FOR DRAWING SHEET-GLASS. JOSEPH P. CROWLEY, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed June 4, 1920. Serial No. 386,440. 9 Claims. (Cl. 49—83.1.)



5. The process of manufacturing sheet glass, comprising the simultaneous drawing of a plurality of sheets, passing said sheets about a bending roll in separable contact with each other, continuing the drawing in a plane while still in contact and finally separating the sheets.

1,394,284. TORPEDO. JAMES S. CURRIER, Newport, R. I., assignor to The Government of the United States. Filed Aug. 10, 1920. Serial No. 402,686. 8 Claims. (Cl. 115—37.)



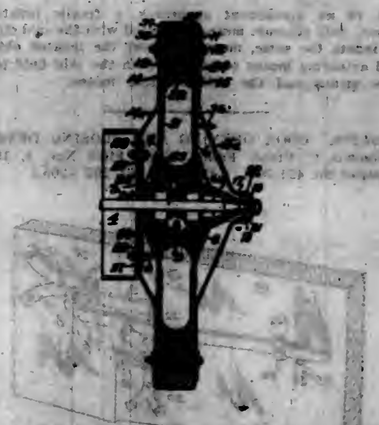
1. In a torpedo, in combination, a shaft, a pair of turbine wheels mounted upon said shaft, a worm associated with said shaft, pinions meshing with said worm and a propeller supporting means driven by said pinions.

1,394,285. [illegible]. [illegible], Cleveland, Ohio. Filed May 27, 1920. Serial No. 384,976. 2 Claims. (Cl. 25—120.)



1. A brick molding device comprising complemental form and follower members, the form member being provided with a series of molding chambers and consisting of parallel side walls and transversely spanning terminal and intermediate webs connecting the side walls, transverse clip rounds connecting the extremities of the side walls beyond the terminal webs, the follower member having depending guide cars adapted for sliding engagement with the exterior surfaces of the terminal webs of the form members, and a series of intermediate plungers terminally spaced apart and from said guide cars to form intervals for the reception respectively of said terminal and intermediate webs, the said guide cars being of a height equal to twice the height of the form member to dispose the plungers in spaced relation to a pallet for the purpose specified.

1,394,286. VEHICLE-WHEEL. WILLARD W. DE LONG and JAMES A. ROOK, Berkeley, Calif. Filed Aug. 13, 1918. Serial No. 249,666. 2 Claims. (Cl. 152—46.)

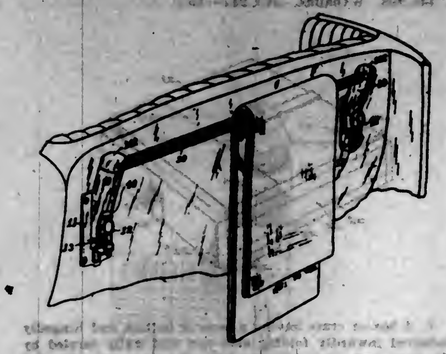


1. A vehicle wheel comprising a hub having a cylindrical flange thereon, parallel side plates on each side of said flange and provided with flanges encircling the hub, a rim disposed about said hub, housing plates inclosing the hub fixed to said rim, the outer portions of said plates being parallel and forming a sliding engagement with said hub plates, parallel annular plates fixed on said housing plates and spaced from and radially aligned with said hub plates, a resilient cushion surrounding the flange between said side plates, a second resilient cushion on the rim between said parallel annular plates, a resilient air tube interposed between said housing and said rim cushions, and a protective strip interposed between said tube and the edges of said parallel annular plates and said hub plates.

1,394,287. AUTOMOBILE BORE-BALL. PATRICK F. DWYER, Cleveland, Ohio. Filed Feb. 25, 1920. Serial No. 361,120. 8 Claims. (Cl. 45—28.)

1. In a valve seat, a pair of bearings adapted to be secured to a supporting surface, a pair of extension members

slidably engaging said bearings respectively and having lateral openings therein, a rail engaging said extension



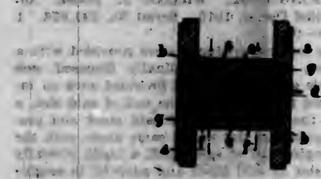
members and having its ends inserted in said openings, and a pair of caps on the end of the extension members and holding the rail in place.

1,394,288. RADIATOR-CAP. CLIFFORD B. DOSSETT, Janesville, Miss. Filed Nov. 25, 1919, Serial No. 340,479. Renewed July 16, 1921. Serial No. 485,789. 1 Claim. (Cl. 220—33.)



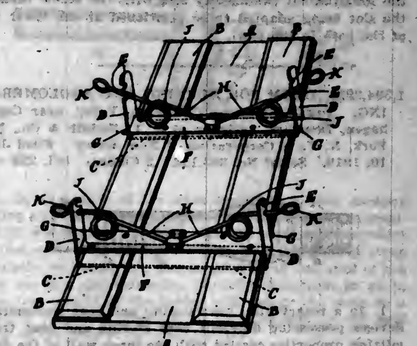
In combination with the filling neck of a radiator, a closure cap therefor having a flange telescopically engaging within the neck, a tubular bearing member secured upon one side of the neck, a leaf spring having one end secured centrally upon the cap and having its other end revolubly and slidably adjustably mounted within said bearing member, and an adjusting nut threaded upon said shank and engaging against said bearing member, said nut providing means whereby the tension on said spring may be varied.

1,394,289. MAGNETO-ARMATURE. MAURICE DUTEN, Levallois-Perret, France, assignor to La Société Duten, Doublet & Cie., Levallois-Perret, Seine, France. Filed Mar. 30, 1921. Serial No. 457,112. 1 Claim. (Cl. 171—207.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



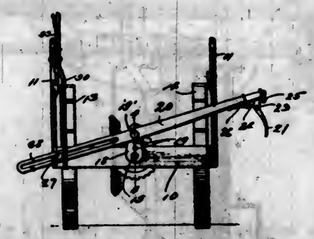
A rotor member, comprising a pair of stool end pieces each provided with an opening; and a core consisting of a plurality of sectional laminæ, a pair of cheek plates between which said laminæ are pressed, and cheek embedding through said cheek plates and laminæ to form the parts into a compact rigid bundle; said core having mortised ends which are shaped to conform generally to the shape of the openings in the end pieces and are in intimate contact with the walls of said openings, said end pieces abutting against the shoulders produced by the mortised formation of the core ends.

1,394,290. TROUSERS AND LIKE PRESS. NORMAN VINCENT DYER, Highgate, London, England. Filed June 16, 1920. Serial No. 389,365. 3 Claims. (Cl. 100—57.)



1. An apparatus of the class described comprising top and bottom pressing boards bodily movable toward and away from one another, a plurality of guide standards extending vertically above the bottom board at opposite sides thereof and forming retaining guides for the top board, and spring means carried by the top board and engageable with said vertical standards.

1,394,291. CORN-THINNER. RALPH DEWEY ESTES, Estes, Va. Filed Nov. 18, 1919. Serial No. 338,942. 4 Claims. (Cl. 97—45.)

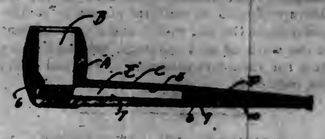


3. A corn thinner comprising a carrier frame, a chopping hoe carried by the frame and movable in a plane at an angle to the direction of progress of the frame, and means for adjusting the hoe with respect to the frame in the plane of progress of the frame.

1,394,292. PIPE. WILLIAM EWART, Niagara Falls, Ontario, Canada. Filed Jan. 10, 1920. Serial No. 350,656. 5 Claims. (Cl. 131—12.)

3. The combination with a pipe including a bowl and a stem having a bore communicating with the bowl, of a supplemental stem fitted in the bore and having a longitudinally extending passageway, the inner end of the sup-

plemental stem projecting into the bowl, and external screw threads formed on the inner end of the supplemental stem, the supplemental stem having a longitudinally ex-



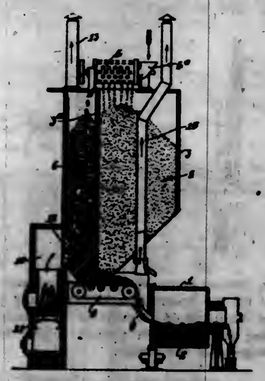
tending slot formed in its inner end communicating with the longitudinal passageway and with the screw threads, the slot being adapted to be positioned at the lower end of the bore in the bowl.

1,394,293. DRUM FOR BURNING AND AGGLOMERATING. JOHAN SIGISMUND FASTING, Valby, near Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y., a Corporation of New Jersey. Filed June 10, 1919. Serial No. 303,116. 2 Claims. (Cl. 222—7.)



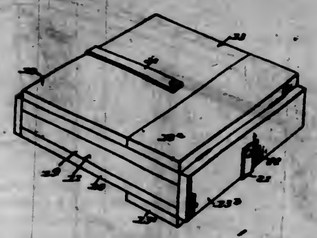
1. In a rotary kiln, heat storing and heat transmitting devices possessing different heat storing and heat transmitting properties carried with the inner wall of the drum and extending generally at right angles to the direction of travel of the material to be treated and to the products of combustion and spaced with relation to each other and affording some lateral support to said material.

1,394,294. GRINDING IN BALL-MILLS. JOHAN SIGISMUND FASTING, Frederiksberg, near Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y., a Corporation of New Jersey. Filed Mar. 15, 1921. Serial No. 452,477. 6 Claims. (Cl. 83—9.)



1. The improvement in grinding moisture-bearing material containing larger bodies and finer bodies in ball mills which consists in heating separately the larger bodies of the mill-charge, mingling the heated larger bodies and the moisture-bearing finer bodies in the grinding chamber, heating and drying the finer bodies through contact with the larger bodies and carrying on the grinding.

1,394,296. FOLDING BOX OR CRATE. CHRISTIAN F. FIELDING, Juneau, Wis. Filed Mar. 1, 1921. Serial No. 448,906. 6 Claims. (Cl. 217—15.)



1. A box or crate having a base or bottom and hingedly mounted inwardly folding side and end walls carried by the base, and a top or cover hingedly connected with the upper edge of one of said walls and being of sectional construction with its sections hinged together to fold around the edge portions of the folded walls and bottom.

1,394,296. GLASS COMPOSITION AND METHOD OF MAKING SAME. ELBERT H. FISHER, Toledo, Ohio. Filed Dec. 13, 1920. Serial No. 430,416. 24 Claims. (Cl. 106—36.1.)

1. A glass comprising more than 60% of silica, one or more oxids of the second periodic group having a thermal expansion of less than 4 as compared to silica, and not more than about 6% of alkali metal oxids of the first periodic group.

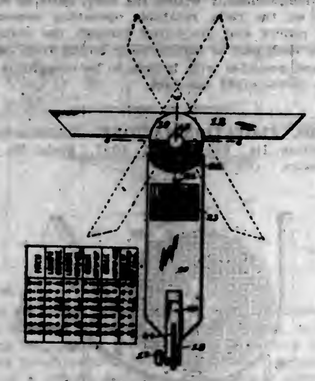
1,394,297. HATPIN. EDWARD BERNARD FLANNERY, Denver, Colo. Filed May 19, 1921. Serial No. 470,801. 6 Claims. (Cl. 132—60.)

1. In an article of the class described, a frame comprising a bowed member and sleeves supported at the ends thereof, sleeves fitted within the first-mentioned sleeves, and a pin having a shank fitted through one of the last-mentioned sleeves and into the other last-mentioned sleeve.

1,394,298. FRAMING-TOOL. WILLIAM E. FOGGS, Nogales, Ariz. Filed Dec. 2, 1919. Serial No. 341,876. 1 Claim. (Cl. 33—90.)

A roof framing tool comprising a stock provided with a slotted converging end, a longitudinally disposed web secured to one side of said stock and provided with an inwardly beveled end terminating at one end of said slot, a block secured to the opposite side of said stock and provided with a longitudinal slot in the same plane with the slot in the converging end of said stock, a blade pivotally mounted in the slot in said block and adapted to engage the beveled end of said web and bearing a graduated scale for coöperation with one edge of said block, a segmental scale carried by said stock and bearing an indicator, a

blade provided with beveled ends, parallel disks secured to opposite sides of the last mentioned blade and pivotally



secured to said stock adjacent to said shield and bearing a graduated scale for coöperation with said indicator and means for securing said blades in adjusted position.

1,394,299. ATTACHING MEANS FOR ARTIFICIAL TEETH. JOSEPH B. FOSTER, Roanoke, Va. Filed Aug. 23, 1920. Serial No. 405,449. 3 Claims. (Cl. 32—12.)



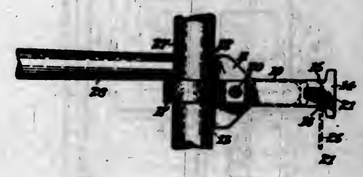
1. A device of the class described comprising an artificial tooth portion and anchoring means secured in said artificial tooth portion and extending laterally through the side thereof at an acute angle to the vertical axis of said tooth portion, as and for the purpose set forth.

1,394,300. REINFORCED-RUBBER ARTICLE. JOHN R. GAMMETER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Mar. 22, 1920. Serial No. 367,759. 1 Claim. (Cl. 137—90.)



A hose having inner and outer tubular portions of relatively-hard wear-resisting rubber, a tubular fabric layer embedded in the outer portion, a soft rubber layer uniting the inner and outer portions, and a reinforcement comprising a metallic helix incased in a fabric sheath embedded in and vulcanized to the soft rubber layer.

1,394,301. PAINT-POT HANGER. GEORGE A. HAYES, Fort Lee, N. J. Filed Apr. 16, 1921. Serial No. 461,862. 2 Claims. (Cl. 248—24.)



1. In an article of the class described, a body member having an extended head at one end thereof in the extremities of which there are teeth adapted to engage the outer portion of the upright of a ladder, and a U-shaped strap pivotally connected in a central position in the head of the body member and extending laterally therefrom so as to span the upright of the ladder and engage the same in a position oppositely disposed to that engaged by the said teeth on the head of the body member.

1,394,302. SANITARY FIXTURE. WINFIELD E. HINSDALE and MARTIN W. LANSING, Trenton, N. J., assignors to Trenton Potteries Company, Trenton, N. J., a Corporation of New Jersey. Filed Jan. 16, 1920. Serial No. 351,834. 18 Claims. (Cl. 4—1.)

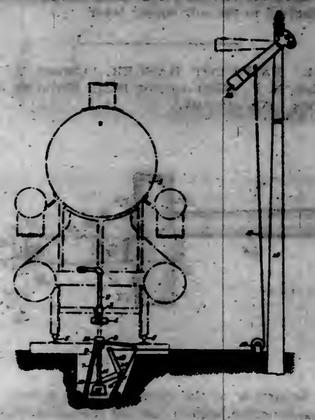


10. In a lavatory support, the combination of a supporting member adapted to be embedded in a wall; a pair of brackets; means for securing said brackets to said supporting member, said means including adjustable elements whereby the brackets may be brought to the desired position with reference to the horizontal and to the face of the wall; and a lavatory secured to the brackets.

1,394,303. TRAIN-STOP. GEORGE PAUL HORAN, Rutland, Vt. Filed Feb. 9, 1921. Serial No. 443,640. 3 Claims. (Cl. 246—204.)

1. The combination with a vehicle having an air line thereon, and a valve arm controlling said air line, of a vertically movable plunger adapted to be positioned in the path of movement of said arm and cause the opening of

the air flow when the vehicle passes the mast, a weight, and a link suspending the weight from the lower end of



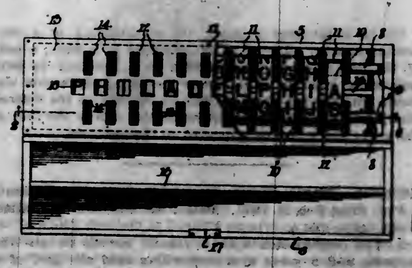
the plunger and operating to return the plunger to its lowered position when permitted.

1,394,304. HATPIN-FASTENER. Lucien G. Hunn, Los Angeles, Calif. Filed Nov. 11, 1920. Serial No. 423,235. 2 Claims. (Cl. 132—71.)



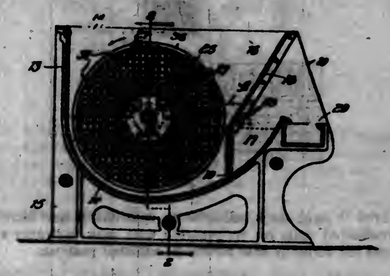
1. A hat-pin fastener comprising the combination of a hat-pin having a pointed shank formed with a flattened and broadened end adjacent to the point, and a member formed with a hub, said member and hub having an opening through the center of same of such a size that the flattened and broadened end of the hat-pin can pass therethrough, and means coöperating with said member and hub in forming a circular opening in the fastener that slidably and detachably supports the hat-pin shank, but of such a diameter that the flattened and broadened end of the hat-pin cannot pass therethrough, and means for detachably attaching said fastener and a hat-pin to a hat.

1,394,305. EDUCATIONAL DEVICE. Albert B. Hurley, Wilmington, Del., assignor to L. W. Hurley, Seaford, Del. Filed Oct. 9, 1920. Serial No. 415,815. 3 Claims. (Cl. 35—9.)



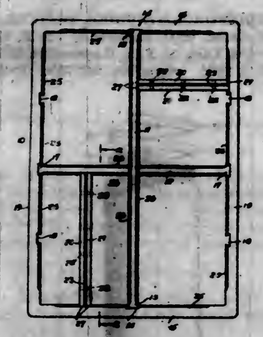
1. In an educational device a hollow body, a cover secured to the upper face thereof and provided with pairs of transversely disposed slots and also provided with slight openings between the slots, a pair of parallel rods arranged longitudinally within the body, pairs of rollers rotatable on the rods, rotatable operating elements fixed to the rollers and projecting through the slots, and a tape for each pair of rollers to be wound from one to the other and provided with indicia to be brought into registration in the sight openings.

1,394,306. FLOTATION-MACHINE. Durrell P. Hyde, Evanston, Ill. Filed July 7, 1917. Serial No. 179,224. 5 Claims. (Cl. 83—85.)



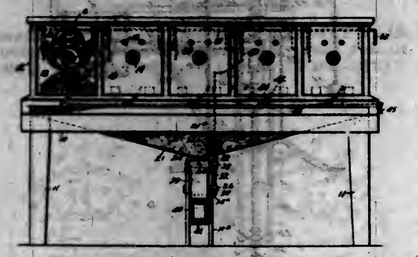
1. A flotation machine, comprising a tank adapted to contain an ore pulp and divided into two chambers, and a plurality of laterally spaced, foraminated, rotary disks partially submerged in the pulp contained in one of said chambers and adapted when rotated to entrap air from above the surface of the pulp and to carry it into the same where it is liberated as bubbles to form a froth on the surface of the pulp and to cause the froth to be discharged into the other of said chambers at a point below the upper edges of said disks.

1,394,307. PRINTER'S CHASE. Edward Jackson, New York, N. Y. Filed Jan. 25, 1921. Serial No. 439,829. 2 Claims. (Cl. 101—391.)



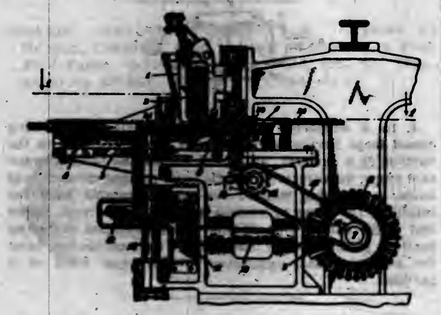
1. A printer's chase, comprising a rectangular frame having the inner faces of its members provided with rabbets and dovetail grooves, dividing bars extending at right angles to each other and having dovetail ends fitting in the grooves of the frame, the said bars having rabbets along their upper edges, and a pair of adjustable clamping bars each provided at its ends with lugs projecting from the top and of the same width as the bar, said lugs being seated on the rabbets of the frame and dividing bars.

1,394,308. BALL-GAME APPARATUS. William G. Jackson, Pompton Lakes, N. J. Filed June 18, 1920. Serial No. 389,190. 10 Claims. (Cl. 46—80.)



1. An apparatus of the class described, including a supporting structure, a target supported thereon, said target affording an opening through which a thrown ball may pass and being movably mounted to yield inwardly to the impact of a thrown ball, and signal means subject to a ball passing into the structure through said opening and subject also to a ball gravitationally moving away from the target after a yielding of the latter.

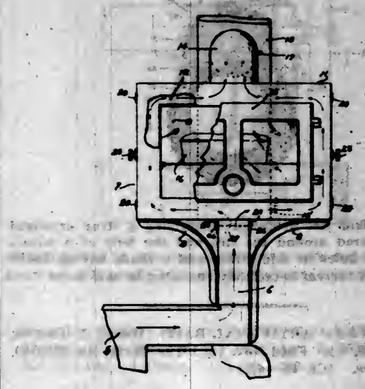
1,394,309. CUTTING MECHANISM. Charles A. Jumbost, Croton Falls, N. Y., assignor to American Assembling Machine Company, Inc., Memphis, Tenn., a Corporation of Delaware. Filed Dec. 10, 1919. Serial No. 343,697. 3 Claims. (Cl. 164—61.)



1. Cutting mechanism for a pack of sheets comprising: a clamp for holding a pack of sheets with one edge exposed, means for moving the clamp in a given path during the cutting action, a rotating cutter, having a tapering edge, at one side of and beneath the clamp and intersecting the path of travel of the exposed edge of the sheets, an upper thrust roller at the other side of the clamp engaging one side of the sheet pack above the plane of the cutter, means for rotating the cutter and thrust roller in the same direction as that of the advancing movement of the clamp, and a lower thrust roller beneath the cutter and occupying an inclined position in contact with the pack of sheets.

1,394,310. COOKING-OVEN. Frank Kreusler, Sr., Milwaukee, Wis. Filed May 12, 1920. Serial No. 381,090. 4 Claims. (Cl. 126—17.)

1. A cooking oven comprising a food receiving compartment, a heating chamber surrounding the sides, top, bottom and rear of said compartment, a door communicating with the front of the compartment; means for introducing



heated gases to and from the heating chamber, doors forming the side walls of the heating chamber to permit access thereto.

1,394,311. RADIATOR-CORE. Frederick F. Lang, Detroit, Mich. Filed July 22, 1919. Serial No. 312,648. 1 Claim. (Cl. 257—129.)



A radiator tube corrugated to provide relatively small and closely associated water channels spirally arranged throughout the entire length of the tube, and air passages spirally arranged exteriorly of and between the water channels, the opposite ends of said tube being reduced to provide shoulders, and reduced extremities crimped, with said channels flattened in overlapped relation.

1,394,312. NON-SKID TIRE-PROTECTOR. Edward W. Lemcke, Jr., Baltimore, Md. Filed Apr. 26, 1921. Serial No. 464,514. 1 Claim. (Cl. 152—14.)



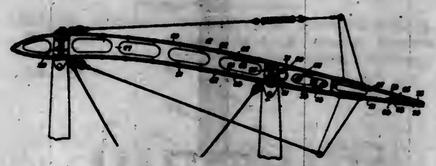
A non-skid tire protector comprising a strap arranged to be secured around the tire and the felly of a wheel, reinforced holes in said strap, and a chain having hooks on the end thereof detachably engaging in said holes

1,394,313. ARTIFICIAL BAIT. Henry T. Lemper, Fredonia, Ky. Filed Nov. 14, 1919. Serial No. 338,049. 4 Claims. (Cl. 43—42.)



1. An artificial bait comprising a buoyant body having an inclined surface for causing the body to dive when pulled in the water, said body having a groove at the surface thereof into which an implement can be inserted to be moved longitudinally in said groove, a weight slidable in the groove to be moved by such implement, and a longitudinal strip extending along the groove and secured to the body, said strip bearing against the weight to frictionally hold the weight in adjusted position and permitting of the insertion of such implement into said groove for moving the weight.

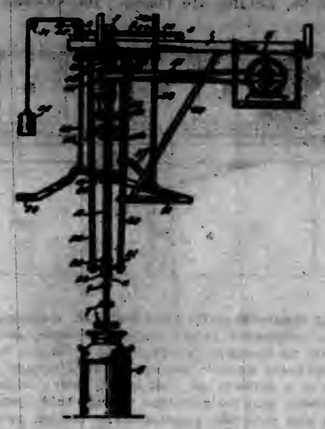
1,394,314. AEROPLANE. Henry Joseph Le Pul, New York, N. Y. Filed May 20, 1920. Serial No. 382,968. 5 Claims. (Cl. 244—29.)



1. In an aeroplane, a wing comprising a relatively fixed front portion, a relatively movable rear portion and an aileron carried by the rear portion and independently movable, the aileron extending from a point intermediate of the length of the wing to the outer end of the same.

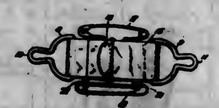
1,394,315. AGITATOR. Claude Le Roy Lewis, Omaha, Nebr. Filed Sept. 18, 1920. Serial No. 411,066. 2 Claims. (Cl. 192—17.)

1. In an apparatus of the class described, a supporting structure, a hollow rotary shaft mounted therein, a blade carrying shaft mounted to reciprocate in and rotate with said hollow shaft, means for rotating said shafts, and



means operable on the lowering and raising of the inner shaft to throw into and out of operation respectively the rotating means.

1,394,316. GARMENT-SUPPORTER. Joseph H. L'Heureux, Lowell, Mass. Filed Feb. 12, 1921. Serial No. 444,563. 4 Claims. (Cl. 24—82.)



4. In a supporter of the class described comprising closed loops having restricted eyes for attachment to the buttons of a garment, an elastic connecting band between said loops, an adjustable elastic band trained through said loops, a clamping member for said adjustable band for retaining the same in various adjustable positions, upper and lower safety pins having offset U-shaped fastening portions secured to the inner side of said connecting band for attaching said supporter to the waist band of a garment.

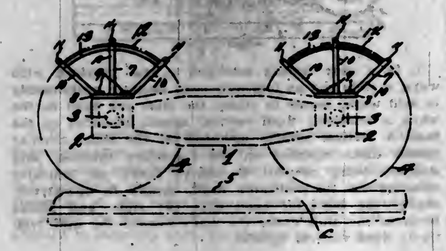
1,394,317. SASH-FASTENER. Cyrus H. Loutrel, South Orange, N. J., assignor to The National Lock Washer Company, Newark, N. J., a Corporation of New Jersey. Filed Jan. 28, 1921. Serial No. 440,575. 6 Claims. (Cl. 292—128.)



1. In a sash fastener, a casing having a front plate and side walls and an open back, a dowel pin at each end of each side wall, a hollow post extending from the inner face of the casing, a perforated fastener member pivoted around said post, one of the end walls being extended to

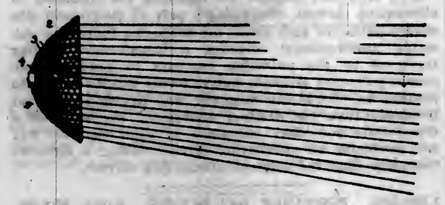
form a finger grip, and a fastening member passed through the sash and engaging the latter and the post and serving as a means of positive securement of the casing to the sash.

1,394,318. WHEEL-HOLDER FOR RAILWAY-CARS. Ottis M. McGuire, Bridgeport, Nebr. Filed June 24, 1921. Serial No. 480,084. 1 Claim. (Cl. 105—217.)



A wheel and truck holding device of the character described, said device comprising a plate secured to the truck adjacent the journal box, said device having upwardly and radially extending arms, the upper ends of said arms arching over the upper side of the wheel at spaced points from each other and a connecting bar connecting the ends of the arched portions of the arms together, said bar being disposed on the opposite side of the wheel.

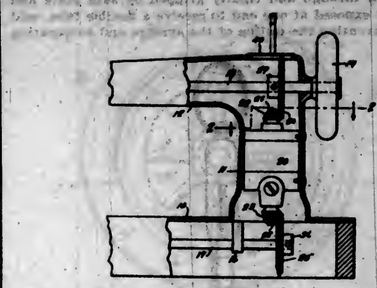
1,394,319. HEADLIGHT-REFLECTOR. Charles A. McNeal, Columbus, Ohio, assignor of one-half to Fred Earl Fuller, Columbus, Ohio. Filed Jan. 15, 1920. Serial No. 351,551. 1 Claim. (Cl. 240—41.)



A headlight reflector of concave form, made up of a multiplicity of plane units angularly related to each other, said units being individually of comparatively small size and each having an inclination with respect to the axis of the reflector differing from that of any other unit, said units disposed in the reflector so as to reflect the rays of light from a common source located at the focus of the reflector downwardly and forwardly in a substantially definite cone of equally distributed light rays.

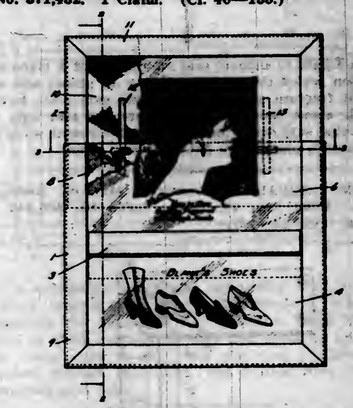
1,394,320. DRIVING MECHANISM FOR SEWING-MACHINES. Arthur T. Mack, Cleveland, Ohio, assignor to The Domestic Electric Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 17, 1918. Serial No. 258,868. 12 Claims. (Cl. 112—220.)

1. A standard sewing machine head, a needle bar and shuttle actuating means suitably housed, an interconnecting hollow standard, an electric motor vertically mounted within said standard, and gears on the armature shaft



of said motor in meshing engagement with corresponding gears on said needle bar and shuttle actuating means.

1,394,321. SHEET-METAL BACKING-FRAME. Jacob Mandel, New York, N. Y. Filed Apr. 5, 1920. Serial No. 371,432. 1 Claim. (Cl. 40—155.)



A backing frame for advertising cards comprising a frame formed from two telescoping sections, each section having bent over edges producing an annular groove when the sections are fitted together, means extending from one of said sections interlocking with the other section for limiting the telescoping action of the respective sections in both directions and a partition plate fitting against one of said sections and formed substantially S-shaped in cross section with one face conforming to the appearance of the bent over edges of the frames, said S-shaped partition formed with opposite facing grooves for receiving upper and lower cards said cards being positioned to extend into said annular groove and into said oppositely facing grooves whereby said partition plate is held in place in said frame.

1,394,322. HYDROMETER-SYRINGE. Herbert S. Marshuts, New York, N. Y., assignor to American Thermo-Ware Company, New York, N. Y., a Corporation of New York. Filed Dec. 29, 1919. Serial No. 347,951. 5 Claims. (Cl. 265—45.)

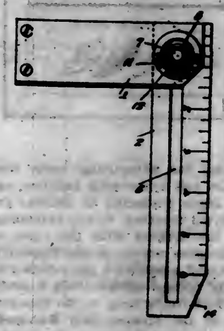
1. A hydrometer syringe comprising a tubular transparent casing containing a hydrometer element and having a collapsible bulb on its upper end, an apertured plug fitting within the lower end of said casing, a plate of yielding material at the lower end of said plug and ex-

leading laterally beyond the plane of the other side and having an irregular edge portion, and a tube extending through and tightly gripped by said plate and plug and exposed at one end to receive a flexible tube, said plate preventing the rolling of the syringe and coöperating



with said bulb to support said casing free of a plane surface upon which the instrument may be placed and also to avoid fracture of said casing; and said plate having a width about equal to the diameter of said bulb for maintaining said casing substantially horizontal when the instrument is placed on a flat horizontal table.

1,394,323. SQUARE. FREDERICK MATSON, Redlands, Calif. Filed Aug. 21, 1920. Serial No. 405,040. 1 Claim. (Cl. 33—102.)



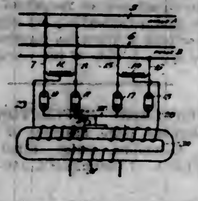
A device of the class described comprising a head having a slot therein extending through one side, one end and a portion of the other side, a blade pivotally and slidably mounted in the head and having its major portion occupying the slot when the device is in folded condition and the wall of the partly closed side of the slot forming a shoulder at its end for holding the blade at right angles to the head when the device is used as a square, clamping means for holding the blade in adjusted position, such means consisting of a bolt passing through said head adjacent its open end and having a rectangular part located in the slot and the blade having a slot therein for receiving the rectangular part, a dial on the head, an indicator on the bolt for coöperating with the dial and a clamping nut for holding the blade in adjusted position.

1,394,324. GEAR-TESTING MACHINE. Jerome L. Masserano, Highland Park, N. J., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 27, 1920. Serial No. 433,128. 3 Claims. (Cl. 33—181.)



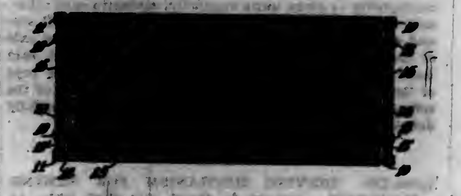
1. In a gear testing machine, a base provided with ways, a slide and an indicator head mounted reciprocably in said ways, means to clamp the slide and head in the ways, a relatively fixed vertical spindle mounted on the base, a vertical spindle mounted on the slide, circular master disks mounted on the respective spindles, said spindles being adapted to receive gears, an indicator mounted on the indicator head, means to operatively engage the indicator head with the slide, and means to press the slide along the ways toward the said relatively fixed vertical spindle.

1,394,325. FREQUENCY-CHANGER. FRIEDRICH WILHELM MEYER, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 15, 1917. Serial No. 202,191. 4 Claims. (Cl. 172—281.)



1. A frequency changer for changing the frequency of alternating current, comprising a pair of electrolonic discharge paths for each phase for producing therefrom pulsating unidirectional currents, a transformer winding traversed by the pulsating currents to produce component pulsatory magneto-motive forces which combine to produce an alternating magnetic flux having a different frequency than the original alternating current, and a transformer secondary energized by said resultant flux and producing an alternating current having a different frequency than the original alternating current.

1,394,326. PORTABLE BED-SPRING. SABIN MIKIEL, Elizabethport, N. J. Filed Apr. 15, 1921. Serial No. 461,554. 3 Claims. (Cl. 5—69.)



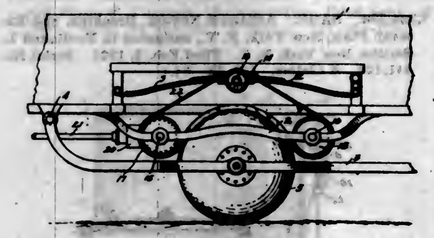
2. In a bed, a frame comprising head and foot elements including transverse angle beams, side beams uniting said head and foot element, bracing brackets hooked upon the said angle beams and presenting diagonal extensions detachably engaging said side beams.

1,394,327. SAFETY LOCK MECHANISM. ARTHUR R. MILLER, Sacramento, Calif. Filed Apr. 6, 1920. Serial No. 371,695. 17 Claims. (Cl. 70—129.)



1. In a vehicle safety lock, the combination with a steering column and a hand wheel thereon, of a sleeve fixed to the said wheel and having an opening, and a lock having a pair of bolts one arranged substantially crosswise of the other; one of said bolts adapted to be locked to the steering column and the other bolt adapted to interlock with the opening in said sleeve.

1,394,328. VEHICLE-DRIVE. EDWIN S. MILLER, Massillon, Ohio. Filed June 1, 1920. Serial No. 385,549. 3 Claims. (Cl. 74—21.)



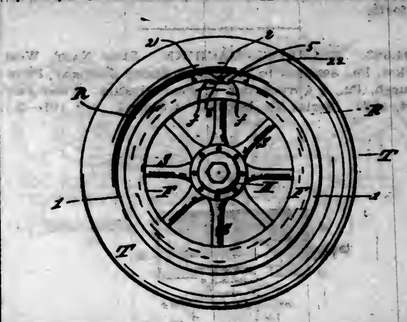
1. The combination with a vehicle traction wheel, of a pair of pulleys having fixed relationship to each other, an endless belt around the pulleys having its lower run engaging the periphery of the wheel, and an elastically supported pulley supporting the upper run of said belt.

1,394,329. PROCESS OF RECLAIMING WASTE LEATHER. JOHN KEARSLEY MITCHELL, Rosemont, Pa. Filed Dec. 15, 1919. Serial No. 345,039. 3 Claims. (Cl. 252.)

1. The process of reclaiming waste leather from articles containing leather and vegetable components, which comprises the steps of heating the leather sufficiently to render it brittle when dry while preventing substantial injury to the vegetable components, breaking up the leather while in the dry state and mechanically separating the broken up leather from other components of the articles treated.

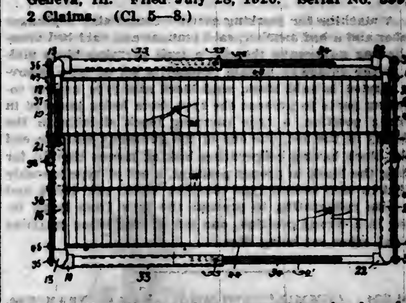
1,394,330. WHEEL-RIM. AINES HART MOMYER and GEORGE M. MOMYER, Brooklyn, N. Y. Filed Aug. 21, 1920. Serial No. 405,027. 1 Claim. (Cl. 301—63.)

A transplit demountable rim comprising a major section having its ends spaced apart and connected by a two part inwardly opening toggle, the sections thereof being pivoted together and to the ends of the major section, the inner sides of the toggle sections being pro-



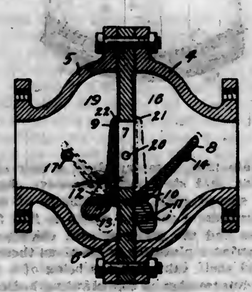
vided with transversely extending oppositely facing shoulders together adapted to act as a driver.

1,394,331. COLLAPSIBLE BED. GEORGE A. C. MONROE, Geneva, Ill. Filed July 28, 1920. Serial No. 399,454. 2 Claims. (Cl. 5—8.)



1. A collapsible bed frame comprising head and foot portions formed with telescoping members, side rails connecting the head and foot portions, links hingedly united at their confronting ends and pivotally united at their outer ends to the head and foot portions, rods attached through said links, and flexible wire elements connecting said rods.

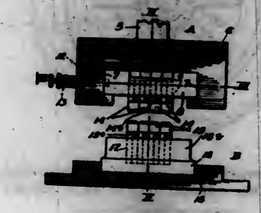
1,394,332. EMERGENCY-VALVE. CLAUS D. MYRE, West Hoboken, N. J. Filed July 12, 1919, Serial No. 310,475. Renewed May 12, 1921. Serial No. 468,976. 5 Claims. (Cl. 137—139.)



1. An emergency valve having two pivotal parts forming a chamber between them, a valve-controlled passageway around said parts, and means to regulate the pressure

in said chamber whereby the pressure may be equalized on the two sides of each of said parts, for the purpose set forth.

1,394,232. STAMPING-MACHINE. JOHN NAGY, West View, Pa., assignor to Pittsburgh Stamp Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 14, 1921. Serial No. 484,626. 4 Claims. (Cl. 101—8.)



1. A machine for marking articles comprising a plunger member and a bed member, said plunger and said bed member having guideways therein, a type carrying block slidable in the guideway in said plunger, a set of type removably carried in said block, said block and type having cooperating parts to prevent the type from being inserted in a wrong position, a type carrying block slidable in the guideway of the bed, one end of the guideway and one end of the block having coöperating locking means therein for holding the block in proper position, a set of type movably carried in said second type carrying block, said block and type also coöperating to prevent the type from being inserted in a wrong position, one set of type being matrices and the other set being dies.

1,394,234. COMMINUTING-MILL. RAY C. NEWHOUSE, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Aug. 23, 1917. Serial No. 188,258. 4 Claims. (Cl. 83—9.)



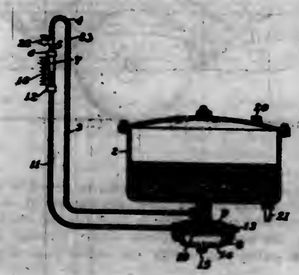
3. In combination, a rotary shell, a pair of transverse walls dividing said shell into successive chambers, said walls being spaced apart longitudinally of said shell to form an intermediate chamber which is free from comminuting bodies and the other of said chambers adjoining, said walls having a plurality of openings therethrough adjacent to said shell, said openings being of a size adapted to prevent transgression of comminuting bodies to said intermediate chamber while permitting the passage of comminuted material through either of said walls, and means within said intermediate chamber for elevating material delivered thereto through said openings.

1,394,236. MARKER-SHELL. HARRY J. NICHOLS, Washington, D. C. Filed Dec. 18, 1919. Serial No. 345,163. 11 Claims. (Cl. 102—29.)



9. A marker projectile including a shell body, a marker to float on the water and means for ejecting the marker rearwardly from said body when the projectile strikes the water.

1,394,236. GAGE. ABRAHAM NOVICK, Brooklyn, and EDWARD FISH, New York, N. Y., assignors to Ferdinand L. Smithe, New York, N. Y. Filed Feb. 2, 1921. Serial No. 441,722. 6 Claims. (Cl. 73—54.)

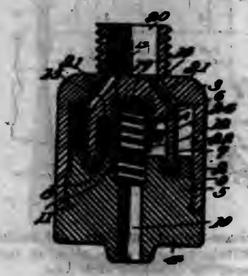


1. In a gage for liquids the combination of a tank for the liquid to be gaged, a diaphragm box including a chamber having a yieldable diaphragm forming one wall thereof, a pipe connecting the bottom portion of said tank with said diaphragm box chamber, a transparent portion in said pipe, said diaphragm box-chamber and that portion of said connecting pipe extending from said chamber to said transparent portion being filled with an indicating liquid, that portion of said pipe extending from said tank to said transparent portion being filled to a point relatively near said transparent portion with liquid similar to that to be gaged, and an air space in said pipe between the levels of the two liquids.

1,394,237. AUTOMATIC CYLINDER-COCK. CARL RICHARD NORDBERG, Altoona, and WILLIAM FILLMORE KOON, Duncansville, Pa. Filed May 17, 1920. Serial No. 381,901. 8 Claims. (Cl. 121—134.)

1. An automatic cylinder cock including in combination a casing adapted to be attached to an engine cylinder,

means for dividing said casing into an inner chamber and an outer chamber and forming a passageway connecting said inner and outer chambers through which the water and steam from the cylinder passes to said inner chamber, said inner chamber having an outlet, a valve seat about



said outlet, a valve located in said inner chamber and adapted to engage said valve seat, and a spring for normally holding said valve off said seat, said valve being constructed and arranged to close when the steam under pressure passes through said passageway.

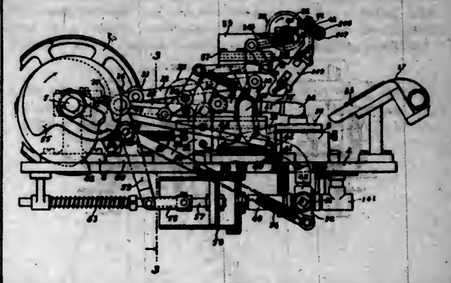
1,394,238. SHEET-METAL LOCKER. JOHN O. NYMAN and JOHN P. PEARSON, Canton, Ohio. Filed Sept. 10, 1920. Serial No. 409,303. 5 Claims. (Cl. 45—118.)



3. A metal locker structure comprising end walls and partition walls having angular flanges at their front and rear edges, channel frame portions spot welded to said flanges and extending down below said walls forming legs for the locker the front frame member being bent backwardly at the upper end of each wall forming a top frame member, outturned flanges being provided upon the front and top frame members, rear walls provided with inturned angular flanges around their edges, means for connecting the flanges of said rear walls to the rear frame members, a top wall provided at its rear end with a downturned portion having an inwardly disposed flange resting upon the top flange of the rear wall and beneath the outturned flanges of the top frame members, a bottom wall provided with a downturned flange resting upon the inturned flange at the lower edge of the rear wall and hinged doors mounted upon the front frame members and arranged to butt against the outturned flanges on said front frame members.

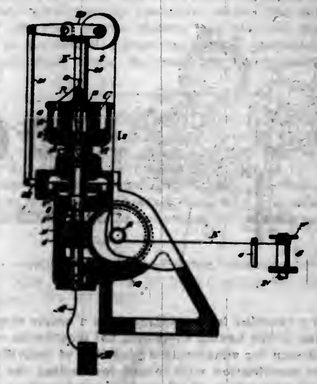
1,394,239. LABELING-MACHINE. JAMES O'CONNOR, New York, N. Y. Filed Feb. 11, 1920. Serial No. 357,958. 6 Claims. (Cl. 216—55.)

5. In a labeling machine the combination of a slide, a picker pivotally mounted on said slide, a label receptacle, a gumming station for the label, a support for the article to be labeled, cam actuated means for oscillating the picker from the label receptacle to the gumming station while the



slide is at rest, means for moving the slide, and means for simultaneously oscillating the picker for moving the picker from the gumming station to the article support.

1,394,240. MACHINE FOR MAKING TINSEL AND THE LIKE. BENJAMIN M. OSBUN and HARRY D. WALKER, Chicago, Ill., assignors to Benjamin Electric Manufacturing Company, a Corporation of Illinois. Filed Oct. 1, 1917, Serial No. 194,219. Renewed Apr. 22, 1920. Serial No. 375,913. 10 Claims. (Cl. 28—6.)



4. A machine of the class referred to having, in combination, a rotatably mounted tubular spindle; a turbine having a rotor fixed upon the spindle; a worm on the spindle at one side of the turbine; a worm-wheel meshing with said worm; a capstan driven by the worm-wheel; a winding head fixed upon the spindle at the other side of the turbine and adapted to support a spool of covering filament, said capstan being arranged to draw a core through the spindle, worm, rotor and winding head; and means on the winding head and the spindle for guiding the covering filament to the core.

1,394,241. STOP MECHANISM FOR LOOMS. JOHN OUELLETTE, New Bedford, Mass. Filed June 30, 1919. Serial No. 307,591. 7 Claims. (Cl. 139—51.)

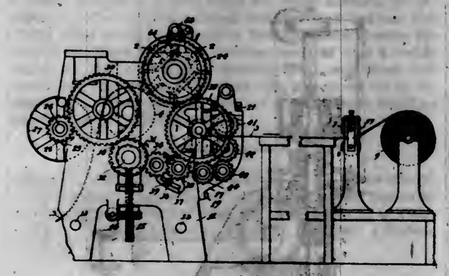
7. In a stop mechanism for looms having a lay with opposite shuttle boxes, rock shafts, detector fingers on the rock shafts positioned adjacent the shuttle boxes, stop operating mechanism on the breast beam, means for actuating said stop operating mechanism comprising a dagger

located adjacent the ends of the rock shafts, arms on the rock shafts adjacent said dagger and normally maintaining said dagger in inoperative position, and spring means for



retaining the detector fingers adjacent the shuttle boxes, and said arms in the path of said dagger, said means being removable and adjustable independently of the rock shafts.

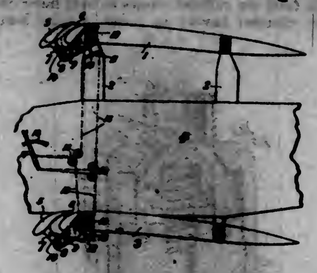
1,394,342. MACHINE FOR MAKING SHINGLE-STRIPS. FREDERICK C. OVERBURY, Hillsdale, N. J., assignor to The Flint-Kote Company, Inc., Boston, Mass., a Corporation of Massachusetts. Continuation of application Serial No. 396,579, filed June 4, 1920. This application filed Oct. 23, 1920. Serial No. 418,905. 10 Claims. (Cl. 164—28.)



9. In a machine for producing from a single sheet a pair of roofing strips having their original lengthwise edges cut out in design for simulating a plurality of individual shingles, the combination with means for feeding the sheet, of a support over which the sheet is fed, a rotating cutter located between the support and feeding means, said cutter having supporting members and cutting members associated with the supporting members and an additional cutting edge extending longitudinally of the feed of the sheet.

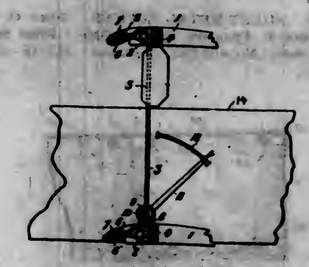
1,394,343. WING AND SIMILAR MEMBER OF AIRCRAFT. FREDERICK HANDLEY PAGE, London, England, assignor to Handley Page Limited, London, England. Filed Apr. 27, 1921. Serial No. 464,895. 6 Claims. (Cl. 244—12.)

1. In aeroplane flying machines; wing structures, each comprising a wing-section main wing, a wing-section auxiliary wing extending adjacent the edge of said main wing and in a direction transversely of the line of flight, downwardly extending arms on said auxiliary wing, means for pivotally supporting the lower ends of said arms, and means for rocking said arms on said pivotal supports in one direction to bring said auxiliary wing into contact with said main wing and for rocking said arms in the opposite direction on said pivotal supports to distance said auxiliary wing from said main wing to produce an open slot between said auxiliary wing and said main



wing and simultaneously to displace said auxiliary wing downward relatively to said main wing to increase the effective camber of the combined structure.

1,394,344. WING AND SIMILAR MEMBER OF AIRCRAFT. FREDERICK HANDLEY PAGE, London, England, assignor to Handley Page Limited, London, England. Filed Apr. 27, 1921. Serial No. 464,897. 4 Claims. (Cl. 244—12.)



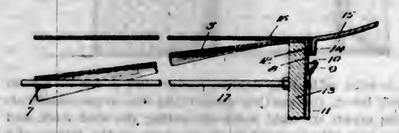
1. In aeroplane flying machines; wing structures each comprising a wing-section main wing, a wing-section auxiliary wing parallel to and adjacent the edge of said main wing, a plurality of pivots carried by said main wing at about right angles to the chord thereof, a plurality of arms each having one end mounted on one of said pivots, a pivot carried by the opposite end of each arm and at an angle to the first-mentioned pivot carried by said main wing, a plurality of members proceeding from said auxiliary wing at right angles to the axes of said angularly arranged pivots carried by said arms to engage said angularly arranged pivots support said auxiliary wing, means for connecting said members to said auxiliary wing to permit of relative movement between said members and said auxiliary wing, and means for rocking said arms about said pivots carried by the main wing in a parallel manner to bring the auxiliary wing away from or into contact with said main wing to partially open or close a slot between said auxiliary and main wings and simultaneously to cause a change to take place in the angle formed by the chord of said auxiliary wing with the chord of the main wing whereby when said auxiliary wing is distanced from said main wing the opening of the slot on the under surface in the direction of the longitudinal axis of the machine is greater than the opening on the upper surface, and when said auxiliary wing is closed on to said main wing said auxiliary wing lies snugly thereto.

1,394,345. RAZOR-STROP. MACK PEECHER, Denver, Colo. Filed Sept. 18, 1920. Serial No. 411,206. 4 Claims. (Cl. 51—200.)



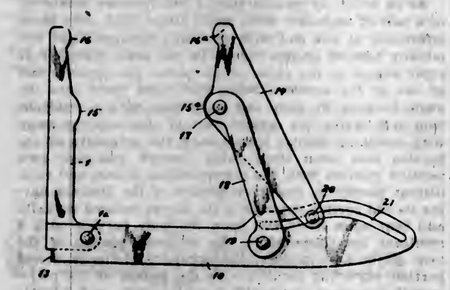
2. A razor strop having a body formed from a plurality of strands of hair, the ends of the strands being secured together and the intermediate portions being capable of spreading laterally when a razor blade is pressed thereon.

1,394,346. ATTACHMENT FOR MOTOR-VEHICLES. IGNATIUS POULTON PERRYMAN, Memphis, Tenn. Filed Jan. 15, 1920. Serial No. 351,667. 1 Claim. (Cl. 180—90.)



The combination with the cowl, dash and hood portions of an automobile, of a moisture shield underlying the hood portion and inclining forwardly and downwardly from the dash portion, the rear end of said shield extending over the top edge of the dash portion and having its free edge portion bent to provide a depending flange portion, and a gutter co-extensive with the lower edge of said flange and underlying the line of connection of the cowl portion with the hood portion.

1,394,347. TIRE-CALIPERS. ROBERT M. PIERSON, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Dec. 3, 1917. Serial No. 205,064. 7 Claims. (Cl. 33—143.)



1. The pneumatic tire calipers having measuring portions representing respectively normal transverse diameter and the predetermined safe distorted diameter for any one of a number of sizes of tires, a bar, a pair of arms thereon adapted to embrace the tire between them, one of said arms being mounted to extend transversely or fold longitudinally of the bar, and means for guiding said arm in a single continuous movement from its folded position into its several operative tire-measuring positions.

1,394,348. VENTILATION ADJUSTMENT FOR SHOE-CAPS. JOHN PIETROWSKI, Chicago, Ill. Filed Jan. 28, 1921. Serial No. 440,602. 1 Claim. (Cl. 36—3.)

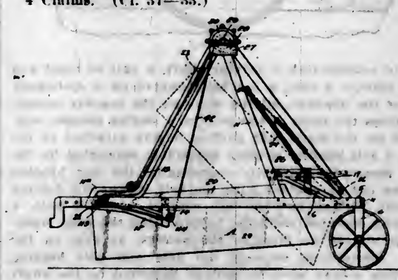


The combination with a shoe, of a tip having a plurality of elongated tapered openings therein, extending from the point of the tip, rearwardly thereof and arranged in fan-like formation, a transversely curved shutter located beneath the tip and provided with similar openings adapted to register with the tip openings, means for pivotally securing one end of the shutter beneath the tip in a manner to permit of transverse pivotal movement and means extending from the tip for manipulating the shutter.

1,394,349. COVERING FOR MEATS. LYLE J. PLETCHER, Berwyn, Ill., assignor to Figaro Chemical Co., Dallas, Tex., a Corporation of Arizona. Filed Dec. 6, 1920. Serial No. 428,717. 4 Claims. (Cl. 99—8.)

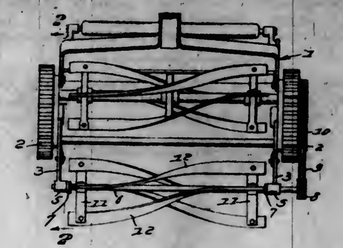
1. A preservation coating comprising a mixture of paraffin and an aromatic asphaltum compound, the asphaltum compound being present in more than 50% of the mixture.

1,394,350. EXCAVATING-MACHINE. HINES A. POWERS, Farry, Okla. Filed Feb. 9, 1920. Serial No. 357,152. 4 Claims. (Cl. 37—33.)



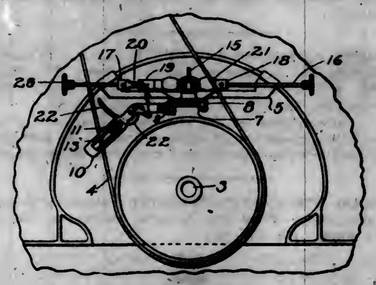
1. In a machine of the class described, a supporting structure, a shovel mounted for bodily and tilting movement in said structure, a rotary drum mounted in said structure, a cable wound on said drum and connected to said shovel, said cable being of a length and so wound on the drum as to permit it to be payed off on one side to provide for the raising of the shovel to dumping position and on reversing of the drum to be paid off on the other side to permit return of the shovel to loading position whereby the shovel may be held in any desired position.

1,394,351. LAWN-MOWER. LOUIS C. W. PRIENOW, Norfolk, Nebr., assignor to Paul G. Schilling, Norfolk, Nebr. Filed June 7, 1920. Serial No. 387,082. 1 Claim. (Cl. 56—294.)



The combination with a lawn mower, of brackets mounted on the frame of the latter and at either side thereof, the brackets having bearings formed in their forward ends which project beyond the forward end of the mower, a shaft journaled in said bearings, spiders carried upon the shaft and provided with radial arms, the arms of one spider having an angular displacement with respect to the arms of the other spider, spiral shaped blades mounted between the arms of the two spiders, and connections between the shaft and one of the mower wheels, whereby the shaft, the spiders and the blades are rotated for the useful purpose specified.

1,394,352. BELT-SHIPPER. GEORGE R. QUIMBY and HORACE F. PARKER, Rondsville, Mass. Filed Oct. 21, 1920. Serial No. 418,367. 2 Claims. (Cl. 64—4.)



1. In combination, a driving shaft, a pair of tight and loose pulleys, a belt, a bracket mounted on a stationary part of the machine, sliding ways on the bracket extending across the faces of the pulleys, a sliding member supported on the ways, belt guiding fingers attached to the slide, a belt binding member adjustably supported by the slide, means for normally maintaining the belt binding member out of contact with the belt, means for forcing the belt binding member into contact with the belt, a manually operated shaft for reciprocating the slide transversely across the faces of the pulleys, an arm on the shaft, connections between the arm and belt binding actuating means whereby motion imparted to the shaft creates a binding action on the belt.

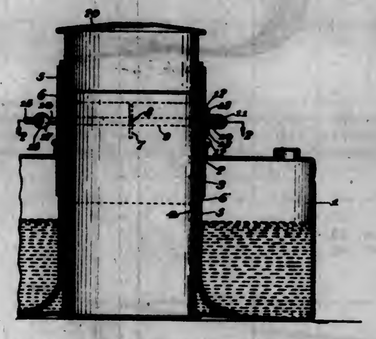
1,394,353. RAKE. PAUL REINWALD, Menlo Park, Calif. Filed Sept. 15, 1919. Serial No. 323,815. 1 Claim. (Cl. 55—10.)

A rake construction comprising a head bar of rectilinear cross section, teeth consisting each of a single piece of wire bent to form parallel shanks connected by a straight bight portion or bar and having the free ends thereof passing laterally rearward through the head bar parallel to the bottom thereof, said ends being clenched over upwardly at the back of the head bar and driven



into it, said shanks being bent downwardly near the bight portion, at an acute angle with the main axis of the shanks to form a claw arm.

1,394,354. LAMP-WICK REGULATOR. JOSEPH C. ROBERT, Jr., Agricultural College, Miss. Filed Feb. 19, 1921. Serial No. 446,236. 8 Claims. (Cl. 67—65.)



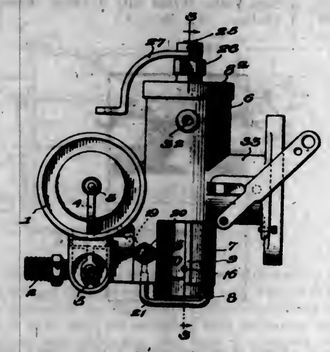
1. A wick adjusting device, comprising a double armed pivoted lever, the portion connecting the arms constituting the pivot, the said arms encircling the said wick and having inwardly projecting pins to engage the latter, and a stationary bearing in which the said pivot is mounted.

1,394,355. BELT-FASTENER. HOYDEN C. ROBINSON, Long Lake, N. Y. Filed July 20, 1917. Serial No. 181,763. 1 Claim. (Cl. 24—33.)



As an article of manufacture, a belt fastener consisting of a pair of malleable sheet metal strips, each strip being bifurcated at one end with resultant divergent and terminally tapered prongs turned in the same direction at right angles to the plane of the strip, the opposite end of one of the members being bent upon itself into the angle between its body and its prongs with a resultant loop and having the central part of the loop cut away with resultant tubular spaced ears, the extremity of the portion bent upon itself being tapered and bent into parallel relation with the corresponding prongs and equidistant therefrom, the other member of the fastener having its end portion opposite to its prongs reduced laterally and bent upon itself and upon the body portion with a resultant loop disposed in the cut-away portion of the loop of the first member, the extremity of the narrowed portion extending parallel with the prongs of the corresponding member, and equidistant therefrom, and a pintle through the medium of which the loop portions are pivotally connected.

1,394,356. CARBURETER. EDMUND T. ROBY, Decatur, Ill., assignor of one-half to Thomas C. Buxton, Decatur, Ill. Filed Dec. 13, 1918. Serial No. 266,610. 8 Claims. (Cl. 261—62.)

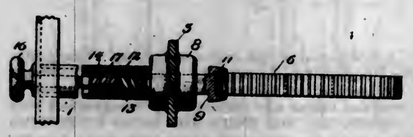


1. In a carbureter, the combination, with a tubular casing open at one end, for the admission of air, of a tubular member disposed within, and having an open end coincident with the open end of, said casing, said casing and member being arranged to provide therebetween a mixing-chamber, said member being provided with an air-aperture communicating with said mixing-chamber, and with a series of atomizing-perforations adjacent said air-aperture, a gasolene-conveying pipe entering said casing and communicating with said perforations, and a rotary valve revolubly mounted on said member and controlling passage to said mixing-chamber, through said air-opening and atomizing-perforations, of the air and gasolene.

4. In a carbureter, the combination of a casing; a tubular casing of smaller diameter nested in said first casing to provide a mixing chamber between said casings, said smaller casing being open at one end and having an air outlet in its side wall delivering to said mixing chamber; gasolene feeding means delivering through the wall of said inner casing adjacent the air outlet; a sleeve valve revolubly mounted on said inner casing and controlling both the air outlet and gasolene feed to the mixing chamber; and means for operating said valve exteriorly of said casing.

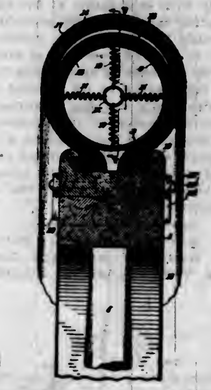
6. In a carbureter, the combination of a casing having a removable cap at one end; an open ended casing of smaller diameter nested in said first casing, and having an air outlet in its side wall delivering to the mixing chamber between the two casings; gasolene feeding means traversing said open ended inner casing and delivering adjacent the air outlet to the mixing chamber; an open ended sleeve valve revolubly seated on said inner casing, and having a port controlling both the air outlet and gasolene feed; and a valve operating spindle mounted in and projecting through the said closing cap for said outlet casing.

1,394,357. GEAR-SHIFT LOCK. THOMAS ROSE, Philadelphia, Pa. Filed July 11, 1918. Serial No. 244,340. Renewed Aug. 29, 1921. Serial No. 496,755. 5 Claims. (Cl. 70—90.)



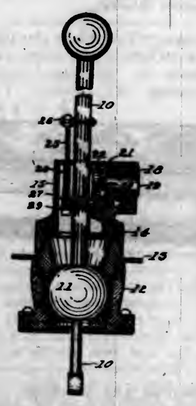
1. The combination with a driving gear shiftable into operative position, of a slide having teeth engageable with the teeth of the gear and having flanges embracing the sides of the gear, and means for moving the slide to and from operative position.

1,394,358. CUSHION-TIRE FOR VEHICLE-WHEELS. JOSEPH ROSICK, Dawson, N. Mex. Filed Feb. 10, 1921. Serial No. 443,900. 6 Claims. (Cl. 152—8.)



5. A tire for vehicles including an inner tube circumferentially split and formed of relatively stiff deformable resilient material so as to normally assume a substantially circular cross sectional form, a plurality of highly resilient members of substantially crescent form in elevation arranged in side by side contiguous relation and partially embracing said tube, and a plurality of circumferentially arranged spaced spring devices fastened at intervals within said tube and each including opposed radially extending helical springs and opposed transversely disposed helical springs attached at their outer ends to the tube and interconnected outer ends to the tube and interconnected centrally of the tube at their inner ends.

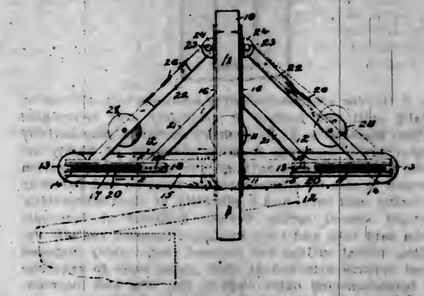
1,394,359. LOCK FOR CONTROLLING LEVERS. AUGUSTUS C. SAXTON and HENRY J. MENARD, Chicago, Ill., assignors to H. R. Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed July 15, 1916. Serial No. 109,435. 3 Claims. (Cl. 70—128.)



1. In a device of the class described, a lever having an enlargement adapted to coöperate with another member to

form a universal connection, a universal bearing member on which said lever enlargement is mounted, a conical opening in said bearing member to permit said lever to have free, limited movement in all directions, a casing completely surrounding the body portion of said lever above said enlargement and having a chamber in its upper portion, a cover integral with said casing having a slot therein slidably fitted around said lever, a locking member formed integrally with said casing at the bottom thereof, entirely surrounding said lever, and adapted to fit within the conical opening in said bearing member when in a lowered position, to prevent movement of said lever, means housed within the chamber in said casing to engage said lever and lock said casing in its lowered position, and means housed within said chamber to automatically raise said casing upon the release of said locking means, said rasing means comprising a rod attached at its two ends to the control lever and passing through the said cover, and a spring surrounding said rod and engaging with its lower end the lower support for the rod, and with its upper end the cover of the casing.

1,394,360. SAFETY DEVICE FOR CLOTHES-WRINGERS. WILLIAM A. SCHNEBLER, Glen Ridge, N. J. Filed Jan. 19, 1921. Serial No. 438,307. 3 Claims. (Cl. 68—32.)



1. A safety device for clothes wringers comprising a pair of oppositely projecting arms having bearings at their ends for supporting rollers in said bearings, a belt passing over the rollers and adapted to pass on its upper reach between the rolls of a wringer, and a guard hinged at its top end above the rolls and projecting at an angle downwardly and outwardly and having at its lower end a transverse fender normally resting slightly above the upper reach of the belt, the guard being adapted to swing freely in an upward direction.

1,394,361. ORNAMENTAL ROPE COVERING FOR FURNITURE AND OTHER ARTICLES. JEAN MAXIMILIAN SCHORPP, Easton, Pa. Filed Apr. 16, 1920. Serial No. 374,417. 4 Claims. (Cl. 41—34.)



1. The combination with an object, of an ornamental rope covering secured on the exposed surfaces thereof, said covering including outstanding loop chains along the edges or corners of the object.

1,394,362. LETTER-SHEET. DAVID D. SCHULMAN, Brooklyn, N. Y.; Florence R. Schulman, administratrix of said David D. Schulman, deceased, assignor to The Munro & Harford Company, New York, N. Y., a Corporation of New York. Filed July 9, 1918. Serial No. 244,129. 7 Claims. (Cl. 283—1.)



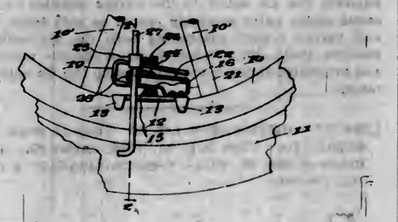
1. As an article of manufacture, a letter-sheet comprising a blank portion and a pictorial portion, the sheet being folded upon itself, the pictorial portion being hidden by the folded portion, and the blank portion exposed.

1,394,363. BLOCK-PACK. SIBYL A. SCOTT, New York, N. Y. Filed Nov. 26, 1920. Serial No. 426,663. 4 Claims. (Cl. 206—65.)



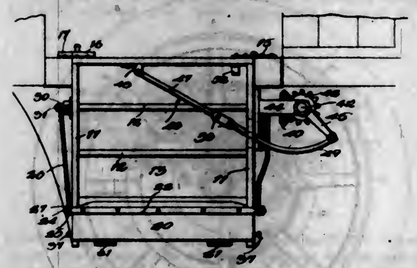
1. A block pack comprising a plurality of wedge-shaped interleaved members, the butts of adjacent members being turned in the opposite directions; and means adhered to the said butts for maintaining said members in fixed relation, said means embodying a fibrous paster adhesively secured to said pack and to the butts of the members forming one side of said pack.

1,394,364. DEFLATION-ALARM FOR TIRES. CHARLES H. SEBER and GEORGE C. BERLIN, Caldwell, Idaho. Filed Apr. 1, 1921. Serial No. 457,738. 2 Claims. (Cl. 116—34.)



1. A deflation signaling device comprising a base adapted for attachment to the felly of a wheel, a metallic sounding bar mounted on the base, a flexible arm mounted on the base and having a projection for striking contact with the sounding bar, said flexible arm having a bifurcation with one of the furcations thereof extending away from the sounding bar, and an adjustable actuating rod carried by the said furcation.

1,394,365. EXTENSION-STEP. ALBERT EDWARD SEIBERT, Frankfort, Mich. Filed Mar. 14, 1921. Serial No. 452,139. 9 Claims. (Cl. 105—430.)



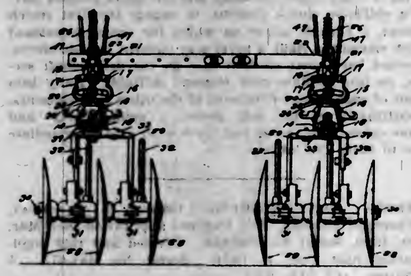
1. The combination with a railway step having stringers and a hinged door, of an extension step hinged to the step, links connected to the step, means connecting the said links to said door for swinging said extension step to its operative position when the door is elevated, and stop elements disposed in the path of travel of said links to limit the movement of the same.

1,394,366. HEADDRESS. GEORGE M. SHARP, Washington, D. C. Filed Apr. 22, 1920. Serial No. 375,863. 1 Claim. (Cl. 2—166.)



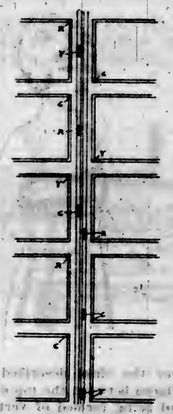
A head dress composed of two strips of flexible non-elastic material, stitched together upon a line inclined to the marginal edges, said stitching including a gathering of the seam a distance from one end thereof and the remote end of said strips gathered to a tie.

1,394,367. CULTIVATOR ATTACHMENT. BENTON E. SIMS, Oxford, Ala. Filed Aug. 29, 1919. Serial No. 320,073. 3 Claims. (Cl. 97—37.)



1. An agricultural implement having a bearing, a bearing movable relatively thereto, and means to selectively secure different implements to the movable bearing.

1,394,368. SYSTEM OF TRANSPORTATION CONTROL. HERBERT THOMAS SMITH, Toronto, Ontario, Canada. Filed May 17, 1920. Serial No. 382,058. 1 Claim. (Cl. 104—28.)



A system of transportation control, consisting in designating the cars on the route with consecutive differentiating signals in groups of three and arranging along the route signal points in corresponding differentiating series and stopping cars only at points where the car signals correspond with the stationary signals.

1,394,369. QUICK-ADJUSTMENT WRENCH. HORACE M. SPRAGUE, Denver, Colo. Filed Dec. 27, 1920. Serial No. 433,389. 3 Claims. (Cl. 81—158.)



1. In a wrench of the character described, a toothed shank having a fixed jaw thereon, a jaw slidably mounted on said shank, a stem in swinging engagement with said jaw having an abutment head on its free end, a threaded nut slidably mounted on said stem having a counterbore, which incloses said abutment head, an expansion coil spring on said stem interposed between said abutment head and the end of said counterbore, to hold said nut against the bottom of said jaw, said nut being normally in threaded engagement with said shank, thereby to adjust said jaw on said shank and to permit the quick sliding adjustment of said jaw on said shank, when out of mesh with said shank, and means for causing said nut to swing back into mesh with said shank, and for holding said nut in such position.

1,394,370. CORSET-TOP PAD. LUELLA STARKEY, Enid, Okla., assignor of one-half to Otto F. Decker, Enid, Okla. Filed May 22, 1920. Serial No. 383,566. 3 Claims. (Cl. 2—75.)



2. A device of the class described comprising a pad adapted to be placed between the top of the corset and the bottom, said pad being formed of vertical and horizontal strips of flexible material spaced apart to form ventilating openings and means for detachably connecting the pad with the corset.

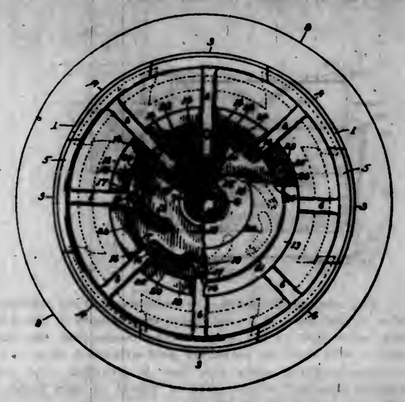
1,394,371. MACHINE FOR MIXING FLOUR AND OTHER MATERIALS. ALBERT A. STRAUSS, New York, N. Y. Filed Feb. 9, 1916, Serial No. 77,130. Renewed Apr. 26, 1921. Serial No. 464,567. 9 Claims. (Cl. 83—28.)



1. A mixing machine comprising a receptacle for the material to be mixed, an upright mixing screw mounted to turn in said receptacle, an insert surrounding said screw and located within the receptacle at a distance from its inner wall to form an annular chamber therewith, the lower end of the insert being open and at a distance above the bottom of the receptacle so that the space at the bottom of the receptacle, below the lower end of said insert, communicates directly with the lower end of said annular chamber.

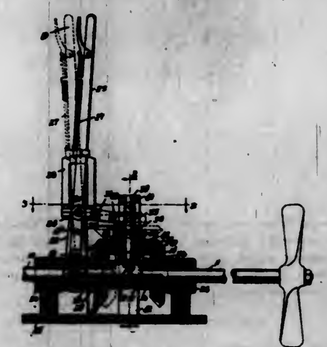
1,394,372. WHEEL. CHARLES A. SULLIVAN, Detroit, Mich. Filed Aug. 30, 1920. Serial No. 406,759. 7 Claims. (Cl. 152—20.)

7. In a vehicle wheel, the combination of a felly formed of a plurality of independently movable sections arranged end to end in abutting relation, a hub, a casing on the hub having radial guide ways, spokes secured to the sections and movable endwise in said guide ways, a member rotatively mounted on said hub and formed with cam



slots and teeth, means on said spokes engaging said cam slots, and a pinion in said casing engaging the teeth on said rotatable member for turning the same.

1,394,373. REVERSING MECHANISM FOR SHAFTS. KARL R. TELLEFSEN, Brooklyn, N. Y. Filed Aug. 10, 1920. Serial No. 402,654. 4 Claims. (Cl. 74—58.)



3. A reversing mechanism of the class described including drive and driven shaft sections, the driven section having a rigid clutch element and the drive section having a shiftable clutch element, to engage the first clutch element, a slidable sleeve on which the second-mentioned clutch element is rigid, a bevel gear element on said sleeve, a second bevel gear element fast on the drive shaft section, an intermediate gear element shiftable axially into or out of engagement with both of the other gear elements, a shifting lever for said sleeve, a second lever, and means connecting the second lever with said intermediate gear to shift the latter.

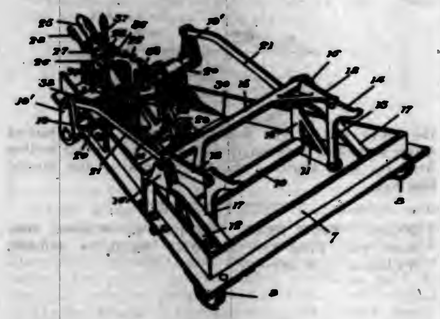
1,394,374. DRAFT-RIGGING. GEORGE E. THACKRAY, Westmont borough, Pa. Original application filed Mar. 10, 1920. Serial No. 364,618. Divided and this application filed Feb. 1, 1921. Serial No. 441,673. 5 Claims. (Cl. 213—42.)

5. In a draft rigging, a draw-bar chamber formed by an upwardly extending trough in the car bottom and a trough-shaped supporting plate secured below the same, top and bottom cheek plates mounted and secured therein, each provided with a pair of substantially rectangular slots, a yoke of U-shape provided with a closure, slidably mounted between said cheek plates and adapted to be



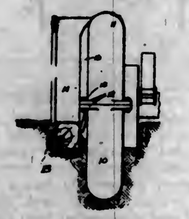
supported and guided thereby, a forward and after follower plate with reduced end portions mounted within and adjacent the closure and the end of said yoke, respectively, the reduced ends of which follower plates project beyond said yoke and into the slots of the cheek plates aforesaid, and a spring between said follower plates.

1,394,375. JACK. TORE TORKILDSON, Lake City, S. D. Filed Sept. 2, 1920. Serial No. 407,748. 7 Claims. (Cl. 251—1.)



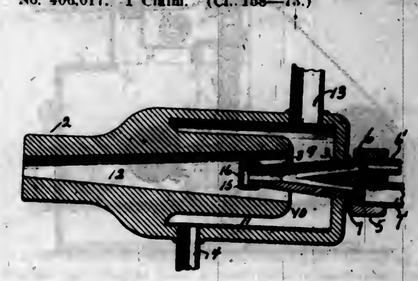
1. A jack comprising a pair of substantially horizontal rock shafts one above the other, arms extending from said shafts, a vertical lift bar pivoted to said arms to be raised and lowered with said arms by a parallelogram movement, and actuating means connected to one of said shafts for rocking same.

1,394,376. ROTARY JACK FOR VEHICLES. FAUSTINO R. URBANO, New York, N. Y. Filed Nov. 17, 1920. Serial No. 424,663. 5 Claims. (Cl. 180—7.)



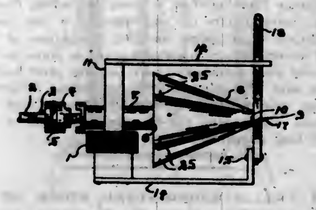
1. A rotary jack comprising a body adapted to be applied to a wheel over the tire thereof to present an annular tread surface about the tire casing; together with an eccentric mounted on said body at a side thereof and presenting an annular auxiliary tread surface.

1,394,377. BURNER FOR GAS AND OIL. CORNELIUS P. VALLELY, Bradford, Pa. Filed Aug. 25, 1920. Serial No. 406,017. 1 Claim. (Cl. 158—73.)



An apparatus of the character described, comprising an internally passaged injector barrel having an enlarged air space therein, an internally apertured boss formed integral with and extending rearwardly from said injector barrel and projecting into said air space, a forwardly projecting two feed single discharge nozzle extending through said air space and having its discharge end disposed within the aperture in said boss forming an annular space around said nozzle, a cap detachably mounted on the end of said discharge nozzle having a reduced aperture in axial alinement with the bore of said nozzle, ingress ports for admission of air and gas in communication with said annular space and adapted to be drawn therethrough by the discharge of fluid under pressure from said nozzle.

1,394,378. WIRE-COILING APPARATUS. MICHAEL VOGELSONG, Toledo, Ohio. Filed July 21, 1920. Serial No. 397,943. 7 Claims. (Cl. 140—71.)

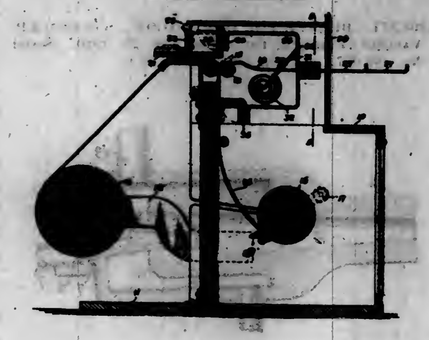


1. A rotary multi-cornered tapered mandrel provided with a wire engaging seat transversely of the end of the mandrel at the tapered region thereof, and a member coacting during mandrel rotation for holding a wire in said seat, said member being movable as to the seat for freeing wire therefrom.

1,394,379. CHECKING-MACHINE. FRANK R. WAINWRIGHT, Jersey City, N. J. Filed Feb. 9, 1921. Serial No. 443,619. 5 Claims. (Cl. 101—90.)

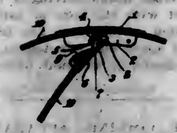
1. A checking machine, including a plurality of projectible type carrying members, movable inking strips adapted to normally bear against the type carried by

said members, and means for projecting said members to permit the same to render an imprint, the type carried



by said members moving said strips out of their path of travel upon being projected.

1,394,380. BUCKLE. OEL E. WARDNER, New Britain, Conn., assignor to The Traut & Hine Mfg. Company, New Britain, Conn., a Corporation of Connecticut. Filed July 22, 1921. Serial No. 486,745. 2 Claims. (Cl. 24—191.)

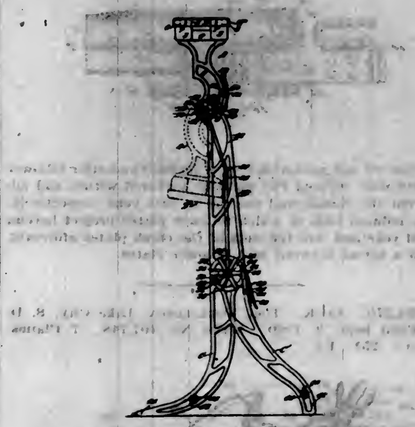


1. A buckle comprising a plate having rearwardly extending flanges at its upper and lower edges forming a belt passage therebetween, a pivot extending from flange to flange intermediate the ends thereof, a cam comprising a channeled sheet metal member, trunnions at the end thereof mounted to turn on said pivot, a plate having ears at one end also mounted to turn on said pivot and located between said trunnions, said plate having a limited free swinging movement independently of said cam in both directions, and means for securing one end of the belt to said last mentioned plate.

1,394,381. FOLDING STAND, STOOL, OR OTHER LIKE ARTICLE. SIMON W. WARDWELL, Providence, R. I.; Carl V. J. Christensen, Edwin C. Smith, Arthur A. Armington, and Willard W. Bardsley executors of said Simon W. Wardwell, deceased. Filed Jan. 17, 1919. Serial No. 271,690. 10 Claims. (Cl. 45—74.)

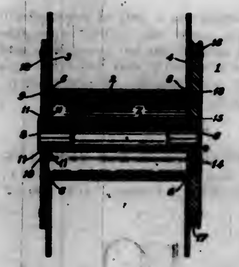
1. In a folding stand, stool or like article of utility, the combination with a main central section comprising uprights, of a cross-frame connected to the upper and lower ends of the uprights, an upper section having uprights hinged to those of the central section, legs hinged to the lower ends of the central section, and detent-means on the hinges preventing turning action thereof to maintain the parts of the stand in extended relation.

4. In a folding stand or like article of utility, the combination with a central section comprising opposite parallel uprights formed with bearings at their upper and lower ends, of an upper section comprising uprights having bearings at their lower ends, pivots connecting said bearings, a top supported on the upper ends of the last-named uprights, folding legs pivoted to the bearings at



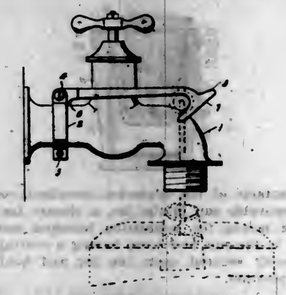
the lower end of the central uprights, and a lateral frame extending between the sides of the central section with its ends abutting the inner sides of the several bearings.

1,394,382. WIRE REEL. CHARLES K. WARNER, Oakmont, Pa. Filed Feb. 19, 1921. Serial No. 446,483. 6 Claims. (Cl. 242—77.)



3. In a metal reel, the combination with an inner reel structure comprising a sheet metal drum and a flat sheet metal head at each end of said drum, said drum and heads being welded together over substantially their entire interengaging surfaces, of an outer reel structure comprising a central hollow hub and a flat metal disk welded on said central hub at each end thereof and located outside of said sheet metal head and having a plurality of openings therethrough, and masses of fused metal in said openings for securing said end disks against said heads.

1,394,383. FAUCET-HOLDER ATTACHMENT. HENRY G. WHITMORE, Newburyport, Mass. Filed May 5, 1921. Serial No. 467,031. 6 Claims. (Cl. 248—24.)



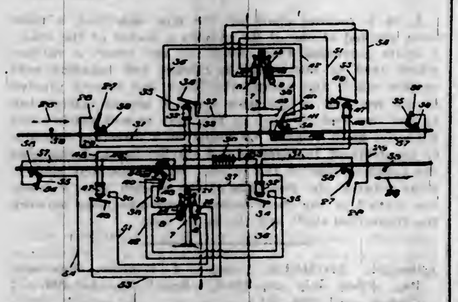
2. A vessel holding attachment for faucets comprising a clamp, and a hook pivotally connected to the clamp and comprising spaced members to extend along opposite sides of the faucet.

1,394,384. AUTOMOBILE-TRUCK CHAIN. MAHLON A. WHITTEN, Mars Hill, Me. Filed Mar. 31, 1920. Serial No. 370,420. 1 Claim. (Cl. 152—4.)



A tread armor comprising a plurality of identical units each comprising side plates spaced to occupy opposite sides of a tire and with a connecting tread, each side plate being depressed upon the inner surface and outer surface respectively to form offset extensions, said depressions being so proportioned that they are occupied by the extensions of adjacent units and pivoted thereto to form an endless flexible tread structure having its connected side plates lying in the same plane and allowing the units to be used interchangeably or reversibly with other units.

1,394,385. SIGNAL DEVICE FOR RAILROAD-CROSSINGS. LUKE P. V. WILLIAMS, Whiteland, Ind. Filed May 23, 1921. Serial No. 471,841. 6 Claims. (Cl. 246—126.)



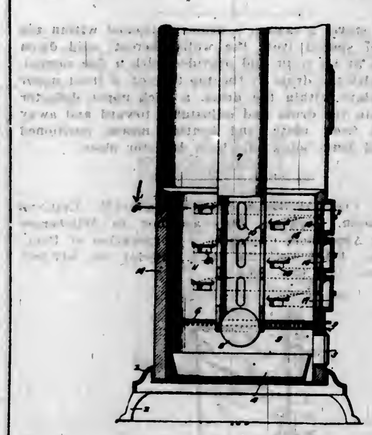
6. A signal mechanism including a signal device having means for indicating the approach of a train and means to indicate when the train is leaving, and devices controlling said signal device by the approach, passing and leaving of a train to set said signal device accordingly, to indicate when the train is approaching and leaving.

1,394,386. CHRISTMAS-TREE STAND. EDWARD ABBERT WILSKE, Vineland, N. J. Filed Feb. 2, 1921. Serial No. 441,888. 4 Claims. (Cl. 240—10.)



4. A device of the character described, including a shallow pan shaped base, a receptacle in said base, tree supporting means associated with the receptacle, an annular series of lights in the base, a vari-colored disk having a central opening adapted to expose said receptacle, supporting means for said disk having rolling engagement therewith when the disk is rotated, and means for rotating the disk.

1,394,387. DRAFT APPLIANCE FOR STOVES AND FURNACES. HAL E. WILSON, Detroit, Mich. Filed Apr. 12, 1921. Serial No. 460,670. 3 Claims. (Cl. 126—77.)



1. In a stove, a fuel chamber, air supply conduits arranged peripherally in the wall thereof and opening into said chamber at different points both vertically and peripherally, air chambers communicating with the atmosphere and with which said conduits communicate, and dampers for opening and closing said chambers.

1,394,388. JAR-WRENCH. DON CARLOS WISENBERG and WILBUR WISENBERG, Peru, Ind. Filed Oct. 28, 1920. Serial No. 420,196. 11 Claims. (Cl. 81—3.1.)

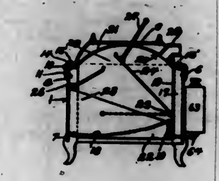
1. In a jar wrench, the combination, of a pair of bearing plates pivotally connected, handles upon said bearing plates, and a plurality of arcuate jaw segments recipro-

cably engaging said bearing plates, said arcuate portions arranged concentrically of the pivot of said bearing



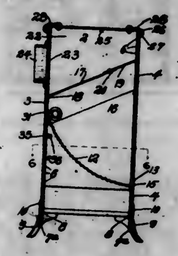
plates, and adapted to advance toward or retract from said pivot upon relative movement of said bearing plates.

1,394,389. COMBINATION REFLECTOR-STOVE. ETIENNE WITZBERGER, Carnegie, Pa., assignor to Witzberger Heating Appliances Company, a Corporation of Pennsylvania. Filed Feb. 1, 1921. Serial No. 441,634. 8 Claims. (Cl. 126—89.)



4. In a stove, a casing, a drum positioned within the casing and spaced from the walls thereof, said drum being open at its front and provided with a flue communicating with the drum at the top thereof, a front upper deflector plate within the drum, a back upper deflector plate within the drum and adjustable toward and away from said front plate, and heating means positioned within said drum below said back deflector plate.

1,394,390. COLLAPSIBLE HEATING-STOVE. ETIENNE WITZBERGER, Carnegie, Pa., assignor to Witzberger Heating Appliances Company, a Corporation of Pennsylvania. Filed Feb. 25, 1921. Serial No. 447,683. 9 Claims. (Cl. 126—86.)



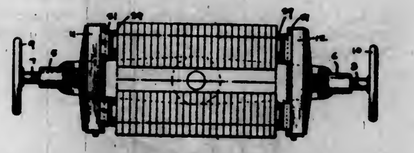
1. In a stove of the character described, a body consisting of hinged foldable front and back and end plates, foot members provided with elements arranged and adapted to engage about the corner portions of the body when the body is set up, said foot members acting to hold the plates substantially at right angles to each other, and means for detachably securing the foot members to said body.

1,394,391. DENTAL-COTTON HOLDER AND WASTE-RECEIVER. NICHOLAS I. WOOLSEY, New York, N. Y. Filed July 8, 1919. Serial No. 309,292. 4 Claims. (Cl. 32—5.)



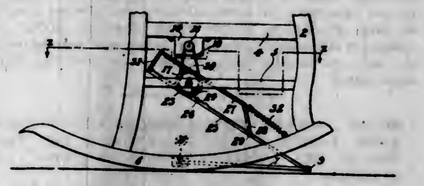
1. A receptacle of the character described, comprising a jar, a removable cup in the jar, a closure for the cup and having means for permitting bunched material to be inserted in the cup, and a cap having a central opening and removably secured upon the jar and holding said closure in position.

1,394,392. APPARATUS FOR EDGING TILES AND THE LIKE. ALFRED N. ZAVAGNO, San Francisco, Calif. Filed Apr. 30, 1920. Serial No. 378,008. 7 Claims. (Cl. 51—216.)



2. An apparatus for edging tiles comprising a supporting base; adjustable frames rotatably mounted in juxtaposition on said base; chucks slidably mounted on said frames and rotatable tile engaging means positioned on said chucks.

1,394,393. MUSICAL ROCKING-CHAIR. ANTONI ZUBRYD, Jersey City, N. J. Filed Mar. 9, 1921. Serial No. 451,001. 2 Claims. (Cl. 155—188.)



1. In a rocking chair of the type described, a floor lever pivoted at one of its ends to a rocker of the chair, a shaft journaled transversely of the chair, a ratchet wheel fixed to said shaft, a ratchet rod engaging said ratchet wheel and having the lower end thereof pivoted to the free end of the floor lever, a second ratchet bar having one end pivoted to the first named ratchet bar with the teeth thereof extending in a direction opposite to the teeth of the first named ratchet bar and engaging the opposite side of the ratchet wheel, resilient connections between the free ends of the ratchet bars, a music box carried by the chair bottom and connections between the transverse shaft and the music box.

1,394,394. THIMBLE. GEORGE J. BALKEY, Glenshaw, Pa. Filed July 25, 1919. Serial No. 313,194. 2 Claims. (Cl. 223—51.)

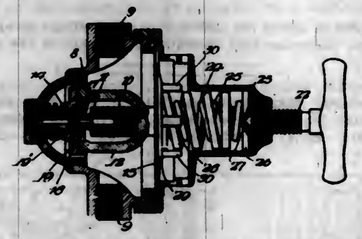
1. A thimble comprising a hollow body having a substantially V-shaped thread cutting member struck up

from the body at a point spaced from the lower edge of the body and relatively near thereto and extending parallelly with the edge, so that the edges of said



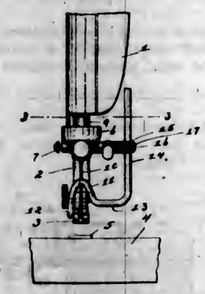
struck-up portion extend in a circumferential direction, said member being so struck out that it is substantially parallel with the outer surface of the body throughout its length.

1,394,395. FLUID-PRESSURE-REGULATING VALVE. CHARLES L. BASTIAN, Chicago, Ill. Filed Jan. 22, 1919. Serial No. 272,421. 14 Claims. (Cl. 50—23.)



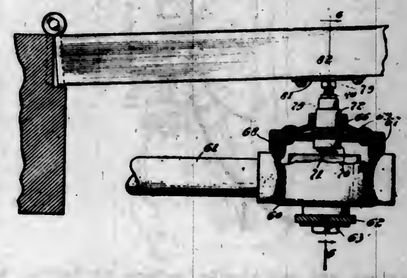
1. In a pressure regulating valve, the combination of an inlet nozzle, a support having a recess therein, a disk arranged in said recess in operative position to seal the nozzle, and a retainer engaging said disk peripherally and on the outer face thereof and threadedly engaging said recess to secure the disk in said support.

1,394,396. NEEDLE AND OIL GUARD FOR SEWING-MACHINES. WALTER J. BEATTIE, Cohoes, N. Y., assignor to The Beattie Manufacturing Company, Cohoes, N. Y., a Corporation of New York. Filed Feb. 4, 1920. Serial No. 356,134. 1 Claim. (Cl. 112—261.)



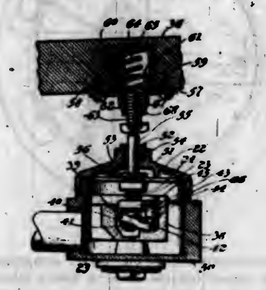
The combination with the presser-foot-bar, needle-bar and needle of a sewing-machine; of a bracket mounted upon the presser-foot-bar and provided with a bearing-aperture extending vertically therethrough; and a needle-guard formed of a single piece of wire bent to form an upwardly extending needle-guarding loop having a needle-guarding member extending rearwardly from the outer leg of said loop, and a lateral extension from the other leg of said loop terminating in a vertical spindle rotatively mounted in the bearing-aperture in said bracket; and a screw for securing said spindle in said bearing-aperture.

1,394,397. ELECTRIC-SWITCH MECHANISM. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 18, 1918. Serial No. 263,073. 11 Claims. (Cl. 200—54.)



2. In a device of the character described, in combination, a circuit-controlling switch; a casing for said switch; an operating plunger for said switch; a cap for said casing, said cap carrying a telescoping means including a resilient buffer, said telescoping means being operable through said resilient buffer to actuate the said plunger to operate said circuit-controlling switch.

1,394,398. ELECTRIC-SWITCH MECHANISM. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 18, 1918. Serial No. 263,074. 2 Claims. (Cl. 200—54.)

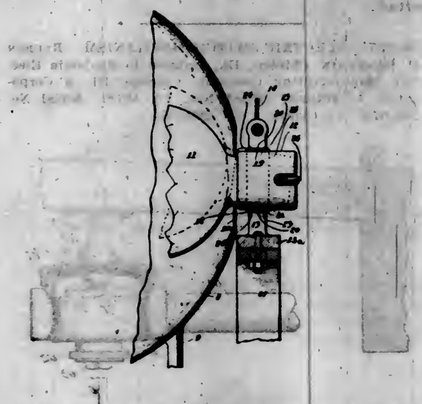


1. In a device of the character described, the combination with a door, of a circuit-controlling switch, means for operating said switch, a primary movable element, and movable means interposed between said element and said first mentioned means, through which said switch may be operated by said primary movable element, and adjustable means mounted on said door operable to determine the amount of movement transferred to said primary element by the movement of said door.

1,394,399. HEADLIGHT. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 27, 1919. Serial No. 279,659. 3 Claims. (Cl. 240—44.)

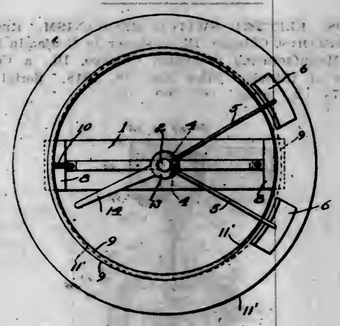
1. In a lamp support for a headlight, a split clamping ring having an integral support, shoulder portions on

said ring, and a resilient second split ring for holding a lamp standard, said second ring embodying means



co-acting with said shoulder portions for limiting the tilting movement of said standard.

1,394,400. RUBBER-TIRE SETTER. ANDREW P. BEAU, Staten Island, N. Y. Filed Aug. 28, 1919. Serial No. 320,467. 2 Claims. (Cl. 157—6.)



1. An automobile rubber tire setter comprising a standard, means supporting the same, a sleeve slidably mounted on said standard, arms pivotally connected to said sleeve and extending downwardly and outwardly both on the same side of a diameter of the tire to be set, blocks attached to the outer ends of said arms, respectively, the outer surface of said blocks conforming to the shape of the tire and being arranged to press the tire outwardly and downwardly over the rim, means for forcing said sleeve longitudinally of said standard, and means interposed between the standard and its support for resisting the reaction of said arms on said standard.

1,394,401. FILM-WINDING MEANS FOR CAMERAS. HIRAM HYATT BERRY, New York, N. Y. Filed Jan. 28, 1920. Serial No. 354,540. 3 Claims. (Cl. 242—71.)

1. In a winding means for cameras, a slide adapted to be mounted to have guided movement on a camera, means to turn the winding spool of the camera by said slide, a spindle, means to turn said spindle by said slide, and a spiral series of stop projections on said spindle



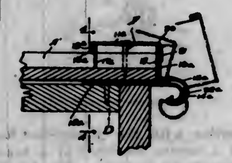
adapted to arrest the slide in various positions according to the particular stop presented in the path of the slide.

1,394,402. BRAKE-DRUM, PULLEY, OR THE LIKE. MARC BIRKIGT, Bois-Colombes, France. Filed Mar. 28, 1919. Serial No. 285,880. 11 Claims. (Cl. 188—218.)



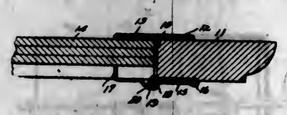
5. A brake drum having a body of aluminum and a thin lining of a hard metal capable of resisting wear on a surface of said body whereon frictional effects are experienced.

1,394,403. FLASHING. OSCAR BOLL, West Hoboken, N. J. Filed Dec. 1, 1920. Serial No. 427,571. 5 Claims. (Cl. 108—26.)



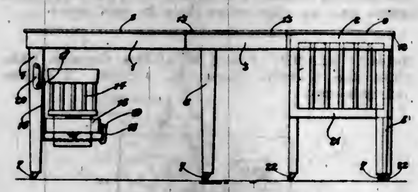
4. A flashing comprising an element adapted to lie on the surface of the material to which the flashing is applied, a second flashing element to which the first element is adapted to be secured, and separate members fitting the first element and adapted to conform to the surface of the material to which the flashing is applied, said members and said first-mentioned element having co-engaging means to engage the one with the other, so that said members of various forms may be applied to said first-mentioned element.

1,394,404. FLASHING. OSCAR BOLL, West Hoboken, N. J. Filed Feb. 17, 1920. Serial No. 359,273. Renewed Dec. 3, 1920. Serial No. 428,148. 4 Claims. (Cl. 20—5.)



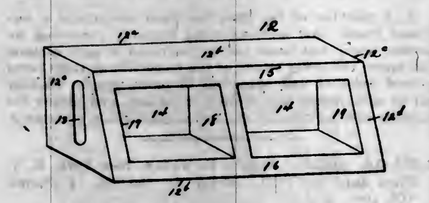
1. A flashing including a channel body adapted to receive a member at one side of the joint to which the flashing is to be applied, one flange of said body being returned on itself and carried beyond the body to constitute a projecting portion to overlap the material at the opposite side of the joint, and a cover plate hinged to said body at the opposite side of the latter from said flange, said cover plate being of a width to extend beyond the body and overlap the adjacent material.

1,394,405. EFFICIENCY-TABLE. WILLIAM F. BRENNAN, Collinsville, Ill. Filed Jan. 17, 1921. Serial No. 437,946. 2 Claims. (Cl. 45—31.)



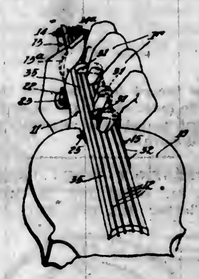
2. A table for household use, comprising supporting legs, an arm having one end pivoted to one of said legs and being movable from a vertical position to a position in which said arm extends outwardly from the leg to which it is pivoted, a short arm in connection with the first-named arm, a support having its end pivoted to said arms and arranged for horizontal turning movement, a chair pivoted with said support for horizontal turning movement, a device for locking said support from turning, and an element supported by the table for holding the first-named arm in its outwardly extended position.

1,394,406. BUILDING-BLOCK AND WALL. ELNATHAN CALVERT, Des Moines, Iowa. Filed Apr. 12, 1919. Serial No. 289,646. 2 Claims. (Cl. 72—41.)



1. A wall formed of hollow blocks, each block being made of concrete and formed with an outer face and side surfaces at right angles to said outer face and an inclined inner face lying in a single plane and forming oblique angles with the side surfaces and a cavity opening to the inclined inner face, said blocks being inverted in adjacent vertical rows to bring a wider side surface of one block into overlapping relation with the wider side surface of an adjacent block in another row and course.

1,394,407. ATTACHMENT FOR STRINGED INSTRUMENTS. ABRAHAM CHERNIAVSKY, Los Angeles, Calif. Filed May 24, 1920. Serial No. 383,755. 7 Claims. (Cl. 84—314.)



1. In combination with a stringed instrument, a guide extending longitudinally of the fingerboard, and transversely extending finger checks carried adjustably on the guide.

1,394,408. UMBRELLA. PAUL L. COOK, Chattanooga, Tenn. Filed Sept. 20, 1919. Serial No. 325,231. 2 Claims. (Cl. 35—26.)



2. A folding umbrella having a rib in relatively movable sections, a block fixed to each section and slidably mounting the complementary section, a cover secured to one of the sections and to the block thereon, a stretcher having a bifurcated portion, and the last mentioned block being disposed in said portion and braced thereby against axial movement, and means to pivot the last mentioned block to the stretcher, the said section being disposed in vertical alinement and the pivot means engaging such block intermediate the transverse planes of the sections.

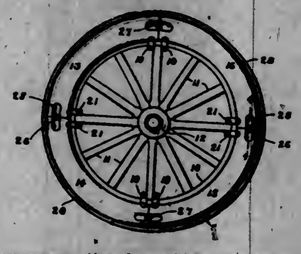
1,394,409. MILK-BOTTLE CAP. IDA DAVIS, San Antonio, Tex. Filed May 6, 1919. Serial No. 295,150. 2 Claims. (Cl. 215—38.)

1. A closure for milk bottles and like wide-mouthed receptacles comprising two similar sections, each embodying

a top and a depending rim, hingedly connected by means of their top portions and having the ends of the rim overlapping when in closed position, an arm projecting from the outer end of one of the rims and curved concentric with the hinged joint between the two sections, and a stud on the inner end of the other rim to coöperate with the said arm to hold the relatively movable section open in adjusted position.

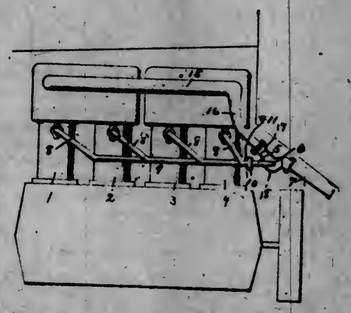


1,394,410. EMERGENCY-TIRE. PETER M. GARSON, Philadelphia, Pa. Filed Jan. 24, 1921. Serial No. 439,561. 4 Claims. (Cl. 152—23.)



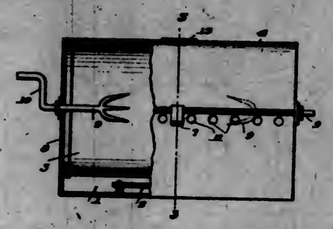
2. An emergency tire for vehicle wheels comprising a plurality of non-resilient tubular inter-engageable sections, each of said sections having an inner arcuate face adapted to seat on—and spaced opposed radially disposed lugs for engaging the sides of—the wheel rim, bayonet slots in said lugs, a reduced annular flange at one end of the section for insertion into the abutting end of the adjoining section, opposed indents at each end of the tubular section, means for connecting abutting sections together at the indented portions, and means for coöperation with the bayonet slotted lugs for clamping the tire rigidly to the wheel rim.

1,394,411. AUXILIARY EXHAUST-PORT. HARRY JAMES GRAKE, Victoria, British Columbia, Canada. Filed July 8, 1919. Serial No. 309,318. 3 Claims. (Cl. 60—32.)



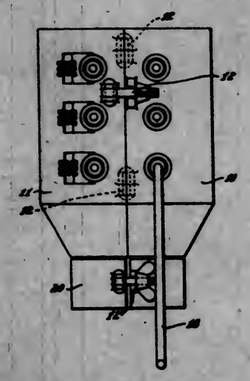
1. The combination with an internal combustion engine embodying a plurality of cylinders, pistons, a main exhaust header and means to exhaust into the header at predetermined points successively in the cycle of operation, of an auxiliary header arranged as a blower in relation to the main header, and means to exhaust from one cylinder into the auxiliary header at a point in the cycle coinciding with the first mentioned exhaust from another cylinder.

1,394,412. ROASTER. ARTHUR A. GREENICK, Buffalo, N. Y. Filed May 11, 1920. Serial No. 380,619. 1 Claim. (Cl. 53—5.)



A device of the class described comprising a heating chamber having an opening therein adapted to be placed over a burner, a cylindrical roasting chamber having side flanges removably supported on the heating chamber and having its lower portion projecting into said chamber, rotatable forked rods projecting through the ends of the roasting chamber and adapted to engage the article to be roasted, one of said rods having a handle thereon outside of the roasting chamber, a removable cover for the roasting chamber and an observation hole in said cover.

1,394,413. CLAMP. FRANK K. HOBBS, Guymon, Okla. Filed Nov. 9, 1920. Serial No. 422,909. 3 Claims. (Cl. 254—29.)

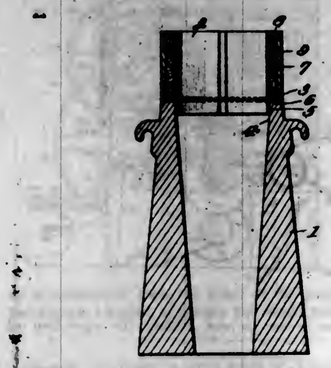


1. A machine of the class described comprising a sectional frame, said sections being hingedly connected together, upper and lower rollers journaled in each section, the upper and lower rollers of the respective sections being geared together and operating in pairs, means whereby all of said rollers are rotated in unison, and means for holding said sections of the frame operatively associated.

1,394,414. BELT. JOSEPH E. HOGAN, New York, N. Y. Filed June 22, 1920. Serial No. 390,863. 4 Claims. (Cl. 106—23.)

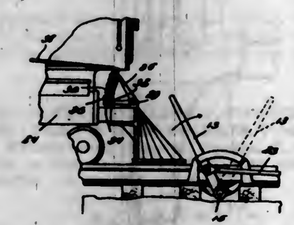
1. A waist line belt made from a composition of rubber, cork in powdered form, and a binder, so combined as to provide a slightly elastic, non-absorbent article of great tensile strength.

1,394,415. FEEDER FOR INGOT-MOLDS. BLOOMFIELD H. HOWARD, Washington, D. C., and ERNEST J. TURNER, Pittsburgh, Pa. Filed Oct. 1, 1920. Serial No. 414,060. 7 Claims. (Cl. 22—147.)



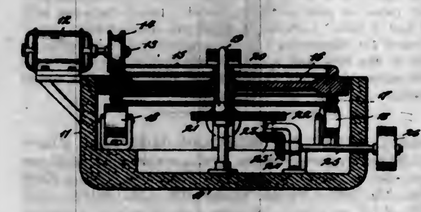
1. A feeder for ingot molds adapted to be removably supported by the upper end of the mold, and having an annular refractory material receiving channel open at its upper end and its lower end closed by the upper end of the mold.

1,394,416. AUTOMATIC SWITCH-OPERATING MEANS. MERRITT TALMAGE JACKSON, Faber, Va. Filed Mar. 5, 1921. Serial No. 449,679. 3 Claims. (Cl. 246—339.)



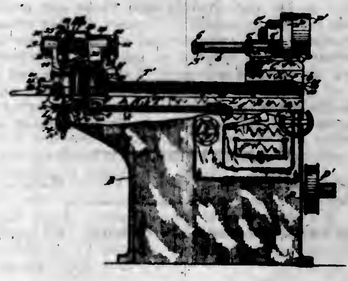
2. A tappet for use on a piece of railway rolling stock comprising a swinging tappet arm with a transverse pin, a swinging member having a slot receiving said pin and adapted to act against and move the pin, a spring carried by said member and interposed between the same and the pin to cushion the movement of the pin independently of the member, means to adjust the member, and means to adjustably fix the member.

1,394,417. POWER-WHEEL. JOHN KROTH, Forks, N. Y. Filed Mar. 18, 1921. Serial No. 453,213. 1 Claim. (Cl. 74—26.)



In a device of the class described, the combination of a concrete well, a source of power secured thereto and comprising a drive wheel, a plurality of idler rollers supported by said well, a horizontally disposed power wheel, a rail secured to the upper surface of said wheel and engaged by said drive wheel, a rail secured to the lower surface of said wheel and riding on said rollers, a shaft upon which said power wheel is pivotally mounted, said shaft being supported at its lower end by said well, a bridge for supporting the upper end of said shaft, a gear secured to said power wheel, and gearing operable by said gear for operating any desired mechanism.

1,394,418. GRINDING-MACHINE. GEORGE W. LANT, Providence, R. I., assignor to Abrasive Machine Tool Co., East Providence, R. I., a Corporation of Rhode Island. Filed Dec. 3, 1917. Serial No. 205,068. 23 Claims. (Cl. 51—95.)



1. In a grinding-machine, the combination with a reciprocating table, of means to reciprocate said table, a headstock swiveled on said table to adapt it to be adjusted in angular relation to the table, a rotary-member mounted on the headstock, a longitudinal drive-shaft and a train of gearing connecting the rotary-member to be driven from the drive-shaft in its different positions of angular adjustment in relation thereto while being reciprocated with the table.

1,394,419. RADIAL ENGINE. ARVID G. LARSON, Grinnell, Iowa, assignor to Dodge Tool Company, Grinnell, Iowa, a Corporation. Filed Nov. 4, 1919. Serial No. 335,757. 3 Claims. (Cl. 123—55.)



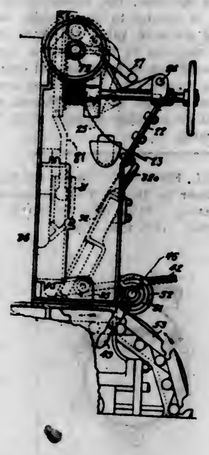
1. In a device of the class described; a shaft having a crank thereon; a crank case for said crank; a series of cylinders arranged radially around the crank and secured to said crank case; pistons in said cylinders; connecting rods connecting said pistons with said crank; a valve seat in the head of each cylinder; a valve on the interior of the cylinder for coacting with said seat, having a stem projecting from the head of the cylinder; means for yieldingly holding the valve seated; means for operating said valve from a cam shaft, each cylinder having an intake port in its side; an annular fuel manifold adjacent to said crank case; and conducting chambers for connecting the manifold with the intake ports of the respective cylinders, the said conducting members being so mounted that expansion of the cylinders may be permitted without cracking the manifold.

1,394,420. DOOR-BUFFER. OSCAR A. LAWRENCE, San Francisco, Calif. Filed Dec. 13, 1915, Serial No. 66,620. Renewed Nov. 19, 1920. Serial No. 425,290. 1 Claim. (Cl. 16—77.)



A door buffer having a casing open at one end and an annular retainer frictionally held by a flange thereon within the open end of said casing, said retainer having a shoulder on the end opposite said flange and projecting laterally beyond the casing; a bumper slidable within the said casing and projecting through the retainer and having a shoulder thereon adapted to engage said retainer for limiting the outward movement of said bumper and a plurality of springs positioned between the bumper and the closed end of the casing of a tension insufficient to break the frictional engagement between the retainer and casing.

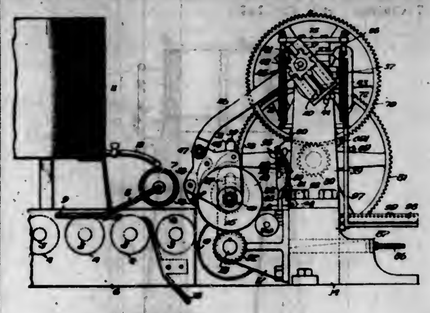
1,394,421. FURNACE. WILLIAM LLOYD, Hazleton, Pa., assignor to Coxe Traveling Grate Company, Port Carbon, Pa., a Corporation of Pennsylvania. Filed May 15, 1918. Serial No. 234,673. 14 Claims. (Cl. 110—40.)



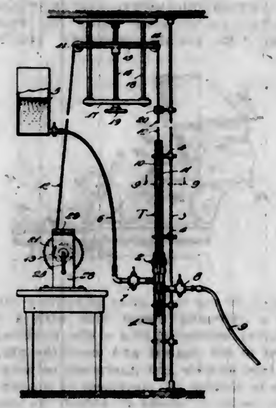
1. In a mechanical stoker, a hopper, an ignition plate over which the fuel passes from the hopper to the furnace grate, and means for adjusting said ignition plate bodily toward and from the fire box, together with a cut-off gate arranged in the hopper above the ignition plate and serving to control the supply of fuel to the ignition plate.

1,394,422. RUBBER-PUNCHING MACHINE. HARVEY F. MARANVILLE and HORACE D. STEVENS, Akron, Ohio, assignors to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 7, 1919. Serial No. 328,988. 9 Claims. (Cl. 164—22.)

1. In a machine of the character described, the combination of a die for cutting rubber stock, a compression plunger within the die, and means causing the plunger to descend upon the rubber and compress it to a predetermined thickness prior to and during the operation of the die.



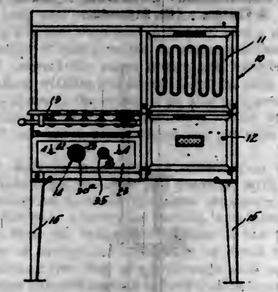
1,394,423. DEVICE FOR CALIBRATING TRANSPARENT TUBES. AUGUST MAZZI and FRANK MARTINI, Vineland, N. J. Filed July 1, 1920. Serial No. 393,370. 12 Claims. (Cl. 73—151.)



1. In a device for calibrating open ended transparent tubes, a liquid container having an upwardly facing tube-seat provided with an opening adapted to communicate with the interior of the tube to be calibrated through one of the open ends of the tube, means to interchangeably secure tubes on said seat and prevent leakage between said seat and a tube, a chain of duplicate displacement members each for displacing a predetermined cubic quantity of liquid in the tube and a suspending element to lower said displacement members through the tube into said liquid container.

1,394,424. AUTOMATIC STOVE OR THE LIKE. JAMES M. MERRITT, Los Angeles, Calif., assignor of forty-one per cent. to C. F. Jaques, San Francisco, Calif. Filed Dec. 13, 1920. Serial No. 430,208. 11 Claims. (Cl. 161—1.)

1. In a cook stove having a panel part and embodying a burner and a control valve for the burner, automatic time control mechanism for the valve comprising an adjustable catch mechanism arranged back of the panel



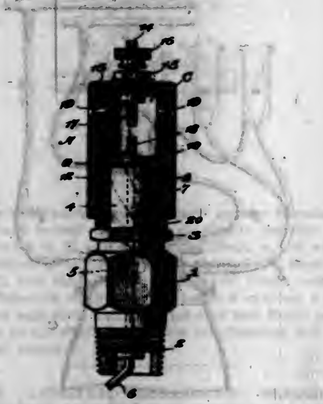
to be adjustable from the front of the panel, and a clock mechanism adapted to release the catch mechanism.

1,394,425. CROSSTIE FOR RAILWAY-CARS. LOUIS G. MILLER and EDWARD C. LONG, Westmont borough, Pa. Filed Apr. 18, 1921. Serial No. 462,473. 14 Claims. (Cl. 105—239.)



1. A polygonal shaped cross-tie for railway car bodies comprising two riveted flanged trough-shaped members provided with an integrally thickened central web portion.

1,394,426. AUXILIARY SPARKING UNIT FOR SPARK-PLUGS. FRANK E. WADE, Camden, N. J., assignor to Wade Manufacturing Company, Camden, N. J., a Corporation of New Jersey. Filed Jan. 29, 1920. Serial No. 355,004. 3 Claims. (Cl. 123—169.)



1. A sparking unit for spark plugs, including in combination with the central conductor and the insulator surrounding the same, a tubular hood closed at one end and open at the other to thereby telescopically fit over the insulator, a wire binding terminal carried by the hood, and a metallic member engaging with the hood and conductor and to prevent displacement of the hood.

1,394,427. SOUND-BOX. WASHINGTON C. KANTNER, Reading, Pa. Filed June 25, 1920. Serial No. 391,573. 5 Claims. (Cl. 274—27.)



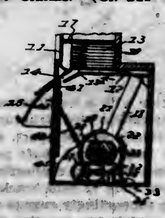
1. A sound box having a diaphragm at one end and an outlet at its other end, a series of disks arranged within said box and spaced apart, said disks having registering openings gradually decreasing in number from the vibratory diaphragm toward the outlet.

1,394,428. SOUND-BOX. WASHINGTON C. KANTNER, Reading, Pa. Filed Nov. 19, 1920. Serial No. 425,137. 5 Claims. (Cl. 274—27.)



1. A sound box having a vibratory diaphragm at one end and a plate at the other end provided with an outlet and a cup like member having a plurality of spaced disks arranged between said sound box and plate, said disks and cup like member being provided with openings registering with the outlet opening of said plate.

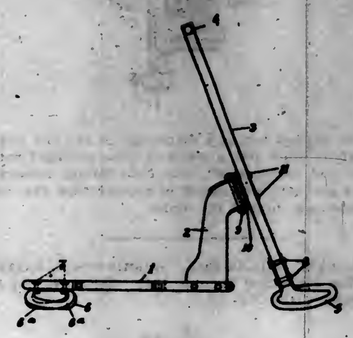
1,394,429. ENVELOP-VENDING MACHINE. CHARLES W. KENNUM, Tucson, Ariz. Filed Dec. 16, 1919. Serial No. 345,206. 7 Claims. (Cl. 211—8.)



1. An envelop vending machine having a follower plate for successively advancing envelops to a discharge outlet,

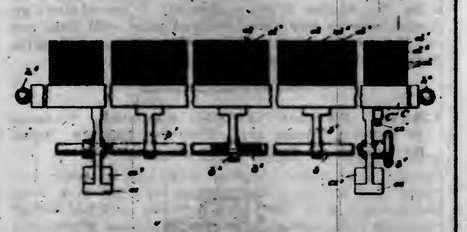
an operating shaft, a clutch having one of its members revolubly mounted upon said shaft and carrying the follower plate, said follower plate being yieldingly held in its normal position, a sleeve mounted upon the operating shaft and carrying the other of said clutch members, a cam carried by said sleeve and engaged by a pressure spring for holding the sleeve in its normal position, and coin controlled means for keying said sleeve to the operating shaft.

1,394,430. SCOOTER. GEORGE MAXIMILIAN ALEXANDER KOEHN, Eccles, near Manchester, England. Filed Aug. 24, 1920. Serial No. 405,690. 1 Claim. (Cl. 280—16.)



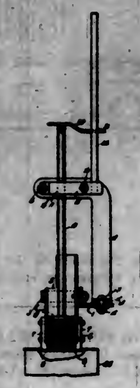
An ice scooter comprising in combination a platform, a steering head, a swivel connection between said platform and said steering head, a sheet metal runner arranged on edge mounted on said steering head, a pair of sheet metal runners arranged on edge mounted on said platform at an angle to one another so that their points of contact with the horizontal plane do not lie on a line inclined to the horizontal axis of the scooter.

1,394,431. REED FOR SPACING WARP-THREADS. CHARLES LEA, Boston, Mass., assignor to American Warp Drawing Machine Company, Boston, Mass., a Corporation of Maine. Filed Sept. 17, 1915. Serial No. 51,164. Renewed Jan. 19, 1921. Serial No. 438,525. 16 Claims. (Cl. 28—30.)



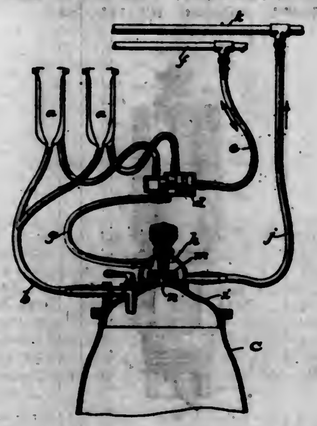
11. The combination with a longitudinal supporting bar, a collapsible and expansible reed structure mounted thereon having dents normally spaced apart, supporting brackets for said bar, a longitudinal shaft parallel with said bar, a series of arms pivotally connecting said bar with said shaft, the upper ends of said brackets being formed and proportioned to supportingly engage the under side of said bar when the reed is in operative position while allowing said bar to swing downwardly therefrom, substantially as described.

1,394,432. LABEL-FEED DEVICE. JAMES QUINCY LEAVITT, Ogden, Utah, assignor of one-half to H. L. Herrington, Ogden, Utah. Filed Aug. 4, 1920. Serial No. 401,155. 8 Claims. (Cl. 216—42.)



1. A label feed device, comprising an open ended receptacle, spurs at the lower end of the receptacle projecting inwardly thereof and adapted to prevent accidental falling of a label out of the receptacle, a rod exerting downward pressure on the labels, a post, and a link slidably mounted on the post and at its free end engaging the upper end of the rod preventing upward movement of the rod.

1,394,433. MILKING-MACHINE. MEREDITH LEITCH, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 27, 1919. Serial No. 333,491. 6 Claims. (Cl. 31—101.)



1. In a milking machine, the combination with the teat cups, the milk pail provided with an air outlet, a milk pipe connecting the teat cups and milk pail, and a suction pipe, of a plurality of check valves in series controlling the pail outlet and arranged to allow the free ejection of air through said outlet into the suction tube and preventing by their joint action the passage of liquid or vapor through said outlet into the pail.

2. In a milking machine, the combination with the teat cups, the milk pail provided with an air outlet, a milk pipe connecting the teat cups and milk pail, and a suction pipe, of a plurality of check valves in series positioned to independently control the same outlet and adapted to freely open to allow withdrawal of air from the pail, said valves tending to close in the event of an absolute pressure in the suction tube exceeding the pressure within the pail, the closure of one valve neutralizing any leakage in another valve.

3. In a milking machine, the combination with double chamber teat cups, the milk pail provided with an air outlet, a connection between the milk chambers of the teat cups and the pail, a source of suction, and means affording a passage from the inflation chambers of the teat cups to the source of suction, of a plurality of check valves in series permitting free flow of air through said pail outlet to said passage but cooperating to seal said pail outlet against a reverse flow of air, vapor or liquid.

4. In a milking machine, the combination with the teat cups, the milk pail provided with an air outlet in its top, a milk pipe connecting the teat cups and the pail, and a suction pipe, of a stopper-shaped flanged valve extending into said outlet, and seating against the top of the pail adjacent said outlet, and a cup-shaped valve overlying and surrounding the first valve and seated against a part of the top of the pail concentric to the seat of the first valve.

5. In a milking machine, the combination with double chamber teat cups, the milk pail provided with an air outlet in its top, a milk pipe connecting the milk chambers of the teat cups and the pail, a suction tube, and a tubular connection from the inflation teat cup chambers, of a valve chamber communicating with the pail outlet, said tubular connection and said suction tube and affording a passage for exhaust air from both the inflation chambers of the teat cups and the pail to the suction tube, and a compound check valve controlling the outlet from the pail to said passage.

1,394,434. BAND-CUTTER. CHARLES L. LOFFLER, Minneapolis, Minn. Filed Apr. 18, 1918. Serial No. 229,372. 2 Claims. (Cl. 130—1.)



1. In a band cutter having a shaft angular in cross section, a blade having an angular opening in one side of its body adapted to fit snugly over the shaft, a side of said opening being opened to permit removal of the blade from the shaft, said blade having an integral flange bent outwardly therefrom at the inner end of said opening, a collar fitted over said shaft and engaging over said flange to hold the blade on the shaft, and means for clamping said blade and collar together.

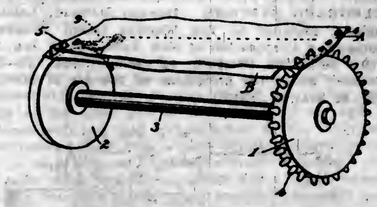
1,394,435. AUTOMATIC GREASE-CUP. WILLIAM CORBET MACHADO, Montecito, Calif., assignor of one-half to Dimitries Gymnastis, Santa Barbara, Calif. Filed Nov. 27, 1920. Serial No. 426,858. 1 Claim. (Cl. 184—45.)

A grease cup having an outturned upper edge, a closure head received over said cup and having an inturned lower edge, a spring positioned in the space between said cup and head with said spring abutting against said outturned and inturned edges for yieldably forcing said closure head downwardly upon said cup, a valve at the lower end of said cup for controlling the discharge of grease therefrom, and



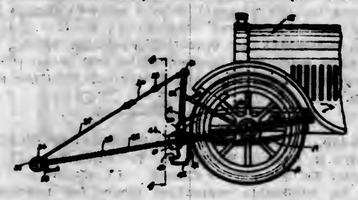
an inwardly opening spring pressed check valve arranged in the upper end of the closure head.

1,394,436. AUTOGRAPHIC REGISTER. ALBERT W. METZNER, Dayton, Ohio, assignor to The Standard Register Company, Dayton, Ohio, a Corporation of Ohio. Filed July 8, 1919. Serial No. 309,336. 8 Claims. (Cl. 282—21.)



3. In an autographic register, a feeding device for perforated paper comprising a pair of interconnected sprocket elements, means for rotating them simultaneously, one of said elements having equally interspaced teeth, and the other having similarly spaced teeth, covering part of its periphery only, for the purpose described.

1,394,437. SAFETY DEVICE FOR AUTOMOBILES. WILLIAM MEYER, Crystal Lake, Ill. Filed Oct. 25, 1920. Serial No. 419,419. 15 Claims. (Cl. 293—28.)



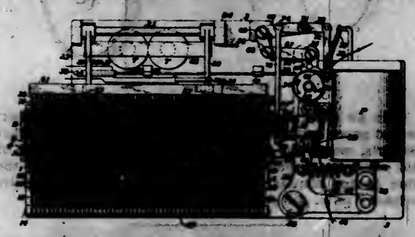
1. A device of the class described comprising a collapsible apron; springs tending to project said apron forwardly; an upwardly extending trigger serving to hold said apron releasably in collapsed condition; and a crossbar carried by said trigger for releasing the trigger by backward pressure thereon, substantially as described.

1,394,393. SCREWDRIVER. James H. Hicks, St. Louis, Mo. Filed Sept. 19, 1919. Serial No. 324,972. 1 Claim. (Cl. 145—50.)



A screw driver, comprising a shank provided with a main screw driving tip, and a double expansible starting tip on said shank and movable beyond said driving tip, and expansible thereby, adapted to grip and hold the screw while being set, said starting tip being adapted to be moved clear of said driving tip while the screw is being driven.

1,394,439. CODE-TRANSPOSING APPARATUS FOR TELEGRAPH SYSTEMS. Donald Murray, London, England, assignor to The Western Union Telegraph Company, a Corporation of New York. Filed Jan. 20, 1919. Serial No. 272,140. 12 Claims. (Cl. 178—3.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. Apparatus for transposing signals from one telegraph code into another, comprising a group of selecting devices representing one telegraph code, a second group of juxtaposed selecting devices representing another telegraph code, and means for operating upon the second group under the mechanical control of the first group, so as to transpose a signal from the first group into the second group.

1,394,440. ADJUSTABLE SUPPORT OR BRACKET. John R. Osann, Buffalo, N. Y. Filed July 27, 1920. Serial No. 399,220. 9 Claims. (Cl. 45—91.)

1. An adjustable supporting device for mirrors and the like comprising holding means to which the mirror is secured, a pair of arms to which said holding means is pivoted at separated points to permit the mirror to swing in one plane, a pair of attaching members adapted to be secured to a support, and a pivotal connection between each of said arms and its related attaching member, one of said arms having a slot through which the pivot passes and which is arranged to permit an adjustment of said arm toward and from said support.



6. A supporting device for mirrors and the like comprising means for attaching said device to a support, a holding member provided with bent ends which engage the edges of the mirror, a securing device movable toward and back of the mirror for feeding the mirror against said ends of the holding member, and a bearing piece which extends between said securing device and the mirror back and is loosely retained in a hole in said holding member.

1,394,441. SAFETY-HOLDER FOR NECKTIES. Josef Paser, Zurich, Switzerland. Filed Feb. 24, 1920. Serial No. 360,641. 4 Claims. (Cl. 2—64.)



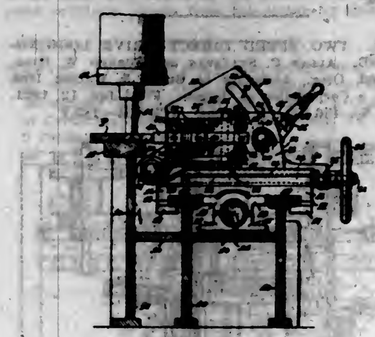
1. A safety-holder for neckties of the self-adjusting type and adapted to be looped around the neck, comprising in combination, a flat abutting plate provided at the top with a recess to engage with and allow the said plate to be pressed against the collar stud from below, and at least one pin rigidly mounted on and secured at substantially right angles to the flat abutting plate, the said pin being the means crosswise to penetrate the slip and the loop of the knot of the tie.

1,394,442. BONDED ARTICLE OF MAGNESIA AND ALUMINA. Ross C. Purdy, Buffalo, N. Y., and Milton F. Beecher and Abraham Albert Klein, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Oct. 7, 1919. Serial No. 329,160. 14 Claims. (Cl. 106—11.)

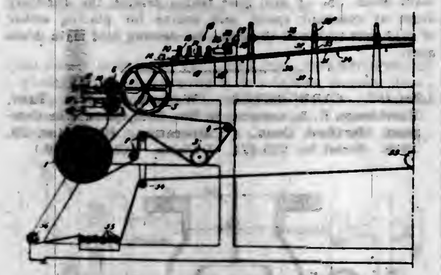
1. The method of making a bonded article of magnesia and alumina comprising mixing pre-shrunk granules of one ingredient with the other ingredient in finely divided condition and heat treating the mixture below the melting point of any eutectic of the magnesia-alumina system to bond the materials into a unitary mass.

1,394,443. CARRIAGE AND SWIVEL CUTTING-HEAD FOR PLANERS. Charles B. Brabeck, Covington, Va. Filed Oct. 14, 1920. Serial No. 416,661. 24 Claims. (Cl. 90—59.)

1. A swivel cutting head for planers or the like comprising a reciprocating carriage, a tool post adjustably supported on said carriage, means for adjusting said tool post on said carriage to the movement of said carriage, an apron pivotally connected at one end and on each of two opposite sides of said post, and means for securing a cutting tool on each of said aprons so that the cutting ends of the tools are pointed toward the ends of the aprons pivoted to said post.



1,394,444. METHOD OF AND APPARATUS FOR COATING PAPER. Frederic Payson Reed, East Orange, N. J., assignor, by mesne assignments, to Charles C. Orcutt, Long Branch, N. J. Filed June 21, 1918. Serial No. 241,103. Renewed Jan. 10, 1921. Serial No. 436,888. 10 Claims. (Cl. 91—9.)

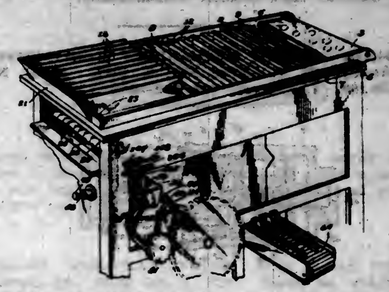


1. In a coating machine, the combination of means for applying a liquid coating material to one face of a continuous sheet of paper; a carrier movable endwise over the coated face of the sheet; a holder connected to said carrier to move therewith and adjustable vertically relatively to said carrier toward and from the sheet; and a plurality of members attached to said holder and extending into contact with said face so as to distribute the coating material evenly thereover and to work it into the sheet.

5. The process of coating paper, which consists in applying a mixture of size and liquid color to one face of a continuous sheet of paper; distributing the mixture evenly over said face and working it into the sheet; and subjecting the sheet so treated to a heating action of high intensity, while maintaining it out of contact with the heating element.

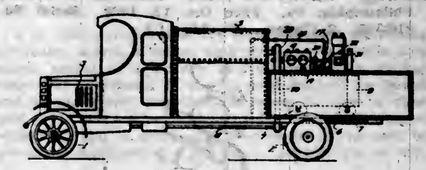
1,394,445. EGG TESTING AND SORTING MACHINE. Charles O. Rogers, William Penn, Pa. Filed Mar. 17, 1921. Serial No. 453,059. 6 Claims. (Cl. 99—6.)

1. An egg testing and sorting apparatus comprising means for progressively feeding a plurality of eggs, inspection holders adapted to receive the eggs, means for turning the eggs while in said inspection holders and



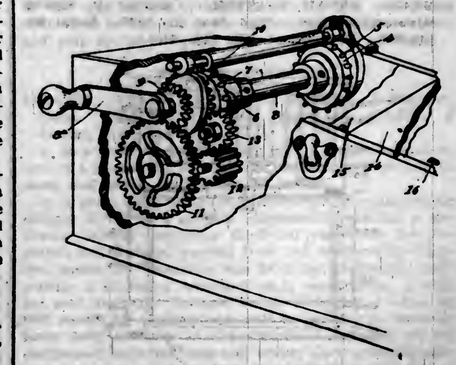
manually controlled means for causing the eggs to be discharged into different predetermined channels.

1,394,446. OIL-GAS-MAKING APPARATUS. Alexander Seidler, Chicago, Ill., assignor to Frederick C. Austin, Chicago, Ill. Filed Nov. 25, 1918. Serial No. 263,953. 16 Claims. (Cl. 158—36.)



1. In apparatus of the character described, the combination of a boiler for producing steam pressure, a compressed air reservoir at one side of said boiler, an oil tank at the other side of said boiler, so arranged that the reservoir and tank will be heated by the boiler, an air compressor mounted on the structure to supply compressed air to said reservoir, and to furnish air pressure to the oil tank, means for heating the boiler, a steam connection leading from the boiler, an oil feeding connection leading from said tank, and an air pipe leading from said reservoir.

1,394,447. AUTOGRAPHIC REGISTER. John Q. Sherman and Albert W. Metzner, Dayton, Ohio; said Metzner assignor to said Sherman. Filed July 8, 1919. Serial No. 309,353. 9 Claims. (Cl. 282—21.)



1. In an autographic register, a feeding device for moving a plurality of films of paper over a writing surface,

and then issuing them from the machine, and means in connection with said feeding device for feeding and issuing different sized sections simultaneously.

1,394,448. CLUTCH MECHANISM. MAGGIE SETNEY, Brooklyn, N. Y. Filed Nov. 5, 1917. Serial No. 200,260. 12 Claims. (Cl. 192—88.)



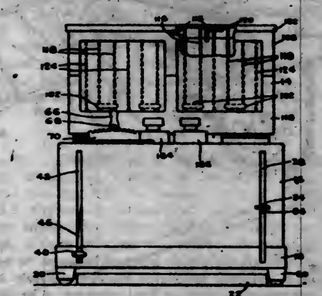
7. A clutch comprising positive locking jaws, friction clutch members, and fluid pressure actuated pistons for either actuating the clutch parts in succession or selectively actuating them as desired.

1,394,449. LUMINOUS PILE. THEODORE C. SMITH, Philadelphia, Pa. Filed Oct. 12, 1920. Serial No. 416,545. 2 Claims. (Cl. 240—1.)



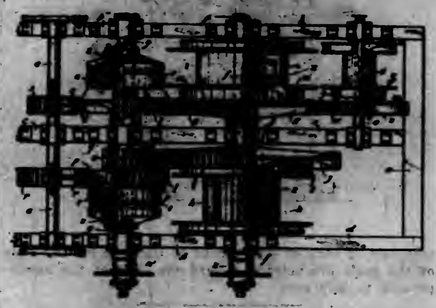
1. A luminous pile comprising a retaining member having a nap, a self-luminous material in a dry or powdered state immersed in said nap and a transparent member disposed across said retaining member and covering the self-luminous material.

1,394,450. BREAD-TOASTER. CHARLES P. SMITH, Minneapolis, Minn. Filed June 22, 1920. Serial No. 390,706. 18 Claims. (Cl. 219—19.)



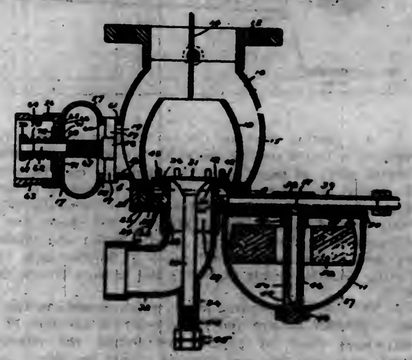
5. A bread toaster comprising an oven having slots for insertion of slices of bread, heating means associated with said oven, and means for automatically cutting off the supply of heat and moving the toasted bread outwardly through said slots when the toasting operation is completed.

1,394,451. TWO-SPEED DIRECT-DRIVE LOGGING-ENGINE. ALLAN C. SULLIVAN and JOSEPH W. GILL, Portland, Oreg., assignors to Smith & Watson Iron Works, a Corporation of Oregon. Filed Jan. 12, 1921. Serial No. 436,693. 8 Claims. (Cl. 254—185.)



1. In an engine of the character described, a driven shaft, a main drum and an auxiliary drum loose on such shaft, a gear adjacent each drum, means for operatively connecting either of said drums, with its gear, a driving shaft, two different speed gear trains in constant mesh connecting the driving shaft with said main drum gear, said gear trains being normally inoperative to drive said main drum, one of said gear trains driving the auxiliary drum at constant speed, and means for placing either of said gear trains in the state for driving said main drum gear.

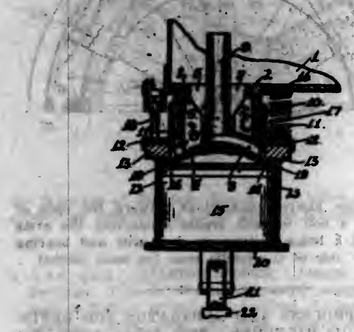
1,394,452. CARBURETER. WALTER STURGIS TAFT, Providence, R. I., assignor to The Taft-Carburetor Company, Hartford, Conn., a Corporation. Filed Mar. 30, 1918. Serial No. 226,421. 1 Claim. (Cl. 261—16.)



In combination, a carbureter having a mixing chamber, mechanism constructed and arranged for supplying air directly to the said mixing chamber, a float chamber for supplying fuel in gaseous form to the said mixing chamber, a fuel supply tube interconnecting the float chamber and mixing chamber, and an air conducting tube connected to the said fuel supply tube, the said connecting tube being extended outwardly from the carbureter structure and having a control cock in the extended portion, whereby an explosive mixture will be supplied to the mixing

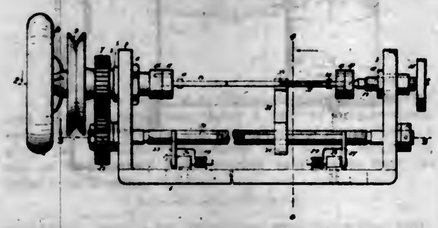
chamber through the cooperation of the said mechanism and the fuel supply tube, and the quantity of fuel delivered to the mixing chamber will be controllable by means of air that is admitted by the control cock and at a point relatively remote from the carburetor structure.

1,394,453. FILLING-VALVE FOR SYRUPERS. ALBERT R. THOMPSON, San Jose, Calif., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif., a Corporation of California. Filed Dec. 6, 1920. Serial No. 428,555. 5 Claims. (Cl. 226—71.)



1. In a filling valve for syrupers, the combination with a displacement member adapted to enter a can to be filled to determine the syrup volume supplied, of a pliant cushion member associated with the rim of the displacement member and depending therefrom.

1,394,454. METHOD OF MAKING THERMOPHONE ELEMENTS. ANTHONIUS M. VAN DOORN, Boston, Mass., assignor to American Thermophone Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 2, 1920. Serial No. 349,105. 1 Claim. (Cl. 29—169.5.)



That improvement in the art of making thermophone elements which consists in supporting two pairs of metal bars in opposition to each other, winding a length of Wollaston wire spirally about said metal bars so that such winding shall be equidistant apart and form loops between the bars, cutting the wire between adjacent bars so as to leave each set of loops with their ends attached to the bars, then etching the loops.

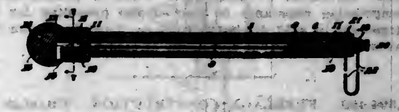
1,394,455. REGISTER. CURTIS HUSSEY VENOMS, Hartford, Conn., assignor to The Veeder Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed Jan. 22, 1921. Serial No. 439,127. 1 Claim. (Cl. 235—95.)

In a register, the combination of a casing, totalizing number wheels and trip number wheels, a common supporting shaft for the totalizing wheels and having the first totalizing wheel fixed thereto, means to actuate the first totalizing wheel, a resetting shaft axially in line with the first mentioned shaft and having the trip



wheels mounted rotatably thereon, a pawl carrier engaged by the end of said first mentioned shaft, a pawl on said carrier, and an internal ratchet carried with the first trip wheel and engaged by said pawl.

1,394,456. COMBINATION TOY. JOHN WENAT, Pittsburgh, Pa. Filed Oct. 1, 1920. Serial No. 414,043. 12 Claims. (Cl. 46—46.)



1. A combination toy of the class described comprising a tubular barrel, a piston head reciprocable within said barrel, means to reciprocate said piston head, a stopper removably positioned in the forward end of the barrel and having a port therethrough, means to open or close said port, and means to detachably fasten said stopper within the end of said barrel whereby the device may be selectively employed as a pop gun or a water gun at will.

1,394,457. BELT-FORMING DRUM. EDWIN C. WIESS, Milwaukee, Wis. Filed Dec. 10, 1919. Serial No. 343,809. 6 Claims. (Cl. 18—2.)



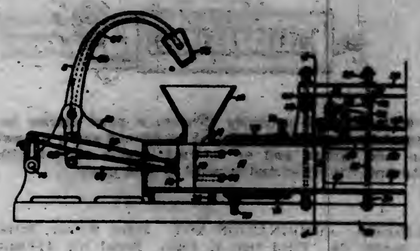
1. A device of the character described provided with a segmental cylindrical portion, a gate pivotally secured to one edge of the cylindrical portion, and end plates adapted to be secured to the end portions of the segment and gate for maintaining them in extended position.

1,394,458. PRESS. GEORGE E. WHITNEY, Bridgeport, Conn. Filed Jan. 16, 1919. Serial No. 271,384. 6 Claims. (Cl. 100—23.)

3. In a press, the combination with a compressing member, of a pusher for pushing the material in front of the same, and means for heating the pusher.

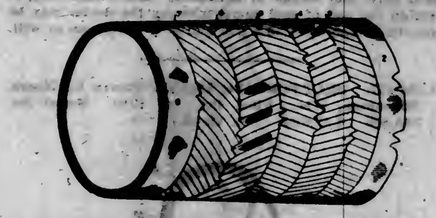
6. A press comprising, in combination, a reciprocating plunger acting in a suitable compressing chamber, a discharge passage providing frictional resistance for the compressed material passing from the compressing chamber, means for regulating the frictional resistance, comprising a frictional retarding plate constituting a wall for said discharge passage, means including a series of bell cranks for holding said wall to permit the latter to move longitudinally in the direction of travel of the compressed material, said bell cranks each pivotally connected at the end of one arm to said wall, and each connected to said wall by yielding compression means at the

said of the other arm, said bell cranks intermediately fulcrumed to an abutment, and said reciprocating plate and bell cranks organized and operating to permit longitu-



dinal movement of said plate when a predetermined compression resistance is reached and providing for enlargement of said discharge passage, dependent upon the extent of longitudinal movement of said plate.

1,394,459. FUSELAGE-CONSTRUCTION. CHARLES F. WILLARD, New York, N. Y., assignor, by mesne assignments, to L-W-F Engineering Company, Inc., College Point, Long Island, N. Y., a Corporation of New York. Filed Oct. 18, 1916. Serial No. 126,326. 5 Claims. (Cl. 244—31.)



3. A fuselage comprising a plurality of layers of wood, each layer consisting of a plurality of spirally directed wooden strips, and fabric between the wood layers and means for biding them together.

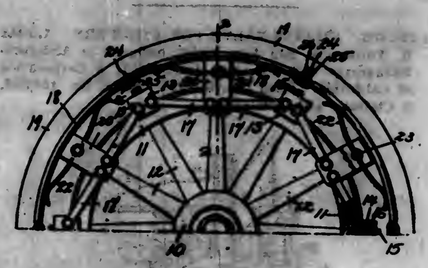
1,394,460. AEROPLANE CONSTRUCTION. CHARLES F. WILLARD, New York, N. Y., assignor to L-W-F Engineering Company, Inc., College Point, Long Island, N. Y., a Corporation of Michigan. Filed Jan. 12, 1918. Serial No. 211,471. 7 Claims. (Cl. 244—30.)



1. An aeroplane fuselage having a continuous surface and a tail post at the rear end thereof and a block so interposed between the fuselage and the tail post that the exposed surfaces of the mentioned parts are continuous.

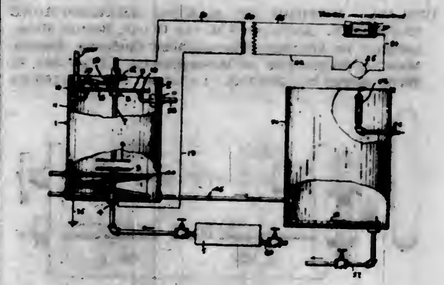
1,394,461. WHEEL. HERMAN YEOMIN, Newark, N. J. Filed Oct. 8, 1919. Serial No. 329,169. 6 Claims. (Cl. 152—8.)

6. A wheel comprising a wheel proper, spaced clips embracing the felly of the wheel proper, cushion elements under the clips, arc-shaped cradles with projecting ends embracing the felly of the wheel proper between the clips, links connecting the arms with the clips, a tire



on the cradles, slotted connections between the ends of the cradles, a bolt in each cradle connecting the arms thereof, and a brace resting on each bolt and bearing on the inner side of the cradle near the ends thereof.

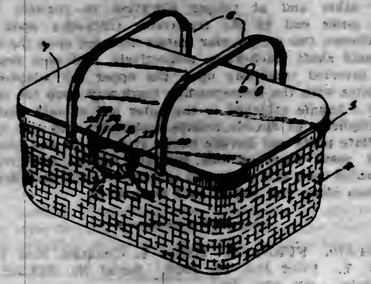
1,394,462. PROCESS AND APPARATUS FOR REFINING LIQUID MIXTURES. SETH FRANK ALDEN, San Francisco, and HAROLD C. ENDT, Los Angeles, Calif.; said Eddy assignor to Petroleum Rectifying Company of California, a Corporation of California. Filed Dec. 22, 1916. Serial No. 138,621. 10 Claims. (Cl. 204—24.)



1. The process of separating the component liquids of a liquid mixture, such as an oil-water emulsion, which comprises maintaining an electric field between electrodes immersed in said mixture, alternately increasing the intension of the field, sufficiently to cause current to flow through the mixture, and decreasing the intensity of the field, sufficiently to substantially prevent passage of current, and separating the coalesced like particles into distinct liquids.

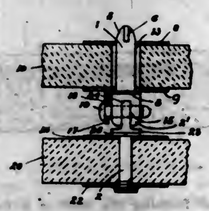
1,394,463. BASKET. ANDREW J. ALLEN, La Grange, Ill. Filed Dec. 20, 1920. Serial No. 432,085. 3 Claims. (Cl. 217—124.)

1. The combination with a receptacle having an open top and a lid seating on said top for closing the same, of bails carried by the receptacle sides for holding the lid in place, said lid having projections at its opposite edges over which the bails are adapted to seat, and a yoke-shaped lever encircling one of the bails and pivoted to the receptacle side, said bail being pivotally connected to



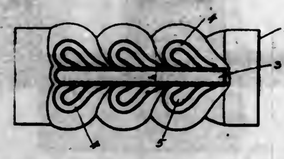
the branches of the yoke-shaped lever below the pivotal connection between the latter and the receptacle side.

1,394,464. AILERON-HINGE. ALFRED DEVANPORT BENTLEY, Toronto, Ontario, Canada, assignor of one-half to United Enterprises Limited, Toronto, Ontario, Canada. Filed June 18, 1920. Serial No. 389,845. 5 Claims. (Cl. 244—31.)



1. An aileron hinge in combination with the aeroplane and aileron frames, comprising a pair of bolt members each inserted through the adjacent frame structures, a pivot pin connecting said bolts, and means secured to one of said frames and engaging said pin to lock the bolts from turning.

1,394,465. DIE AND PROCESS FOR MAKING CUP-HANDLES. JAMES BENTON, East Palestine, Ohio. Filed Aug. 24, 1920. Serial No. 405,670. 9 Claims. (Cl. 26—27.)

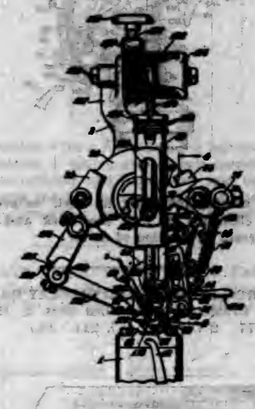


1. In a method of making cup handles the forming of a plurality of cup handles integrally with a connecting member by pressing from a bat.

1,394,466. STORAGE-BATTERY SEPARATOR AND METHOD OF PRODUCING SAME. ROBERT L. BOYER, Trenton, N. J., assignor to Joseph Stokes Rubber Company, Trenton, N. J., a Corporation of New Jersey. Filed Sept. 29, 1919. Serial No. 327,803. 12 Claims. (Cl. 204—29.)

1. A storage battery separator having comminuted wood incorporated therein.

1,394,467. FASTENER AND SLUG INSERTING MACHINE. JOHN H. BRUNINGA, St. Louis, Mo., assignor to Champion Shoe Machinery Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 15, 1918. Serial No. 262,688. 48 Claims. (Cl. 1—28.)



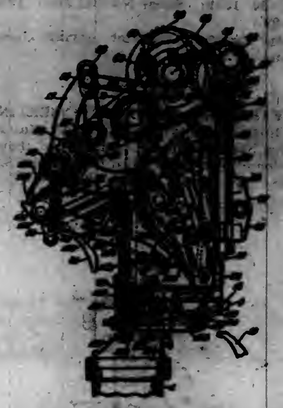
1. In a string nailing machine, the combination with a frame, of a head mounted for movement thereon, a throat and a coöperating driver mounted on said head, a work feeding awl, means for guiding a string of connected nails into said throat, a feeding member mounted on said frame, adapted to feed the string by engagement with the head of a nail on the string, together with coöperating means, adapted to cut the string to position a cut nail in said throat, and means for moving said head and said awl, adapted to move said awl and said throat alternately into and out of the line of drive.

6. In a machine of the class described, the combination with a frame, of a head mounted for movement thereon, fastener inserting mechanism and an awl mounted on said head, means for moving said head to impart a clearance movement to said awl, and means for moving said head in the same direction to impart a feeding movement to said awl.

1,394,468. FASTENER AND SLUG INSERTING MACHINE. JOHN H. BRUNINGA and HARRY H. EMISS, St. Louis, Mo., assignors to Champion Shoe Machinery Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 15, 1918. Serial No. 262,697. 85 Claims. (Cl. 1—30.)

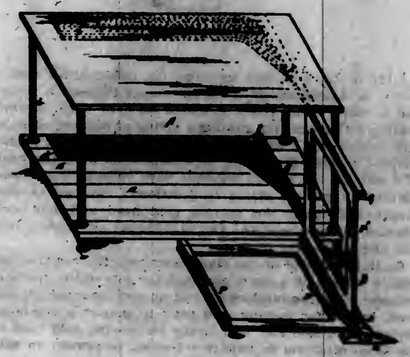
1. In a string-nailing machine, the combination with a frame and a driver thereon, of a throat positioned in the line of drive, a guide for a string of connected nails, a movable nail-receiving member, feeding and cutting means constructed and arranged to engage the head of a nail on the string and feed the string into said nail-receiving member, and constructed and arranged to cut the string to position a cut nail in the said nail-receiving member,

means for moving said self-receiving member to position the nail therein in the line of drive, and work feeding and



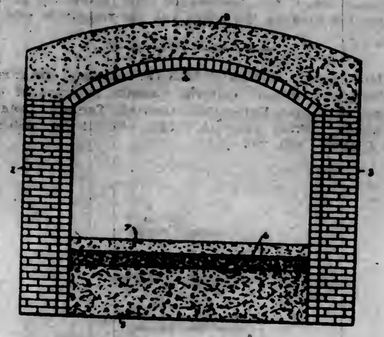
puncturing means, including an awl, coöperating with said other elements to feed the work and to form a puncture therein in the line of drive.

1,394,469. RUG STORING AND DISPLAY RACK. ARNOLD M. CASS, Bridgeton, Ind. Filed Sept. 2, 1920. Serial No. 407,677. 2 Claims. (Cl. 211—22.)



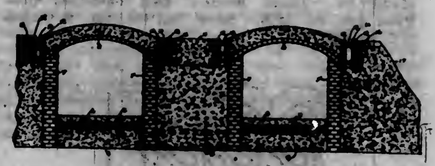
1. In a rug storing and display rack, the combination of a framework, comprising an upper and lower platform, suitable supporting posts adapted to support the upper platform above the lower, a multiplicity of track-ways mounted upon the lower platform and extending along the rear part of said platform, a series of curved extensions of said tracks, a series of switches, mounted one each, at the end of said curved extensions of said track-ways, a transverse track-way extending from the rear to the front edge of said platform and adapted to register with the curved track-ways, when the corresponding switches are properly placed, and a corresponding system of track-ways, and switches, suspended from the upper platform, immediately over and in proper alignment with corresponding track-ways upon the lower platform, with a displacement comprising a revolving shaft, normally extended upon turn and bearing-blocks and positioned at right-angles to said platforms, two track-ways extending throughout the length of said shaft, said track-ways being disposed upon the shaft at right-angles one to the other and at proper elevation to register with the outer end of the transverse track-way upon the platforms, two rectangular frames mounted upon the sides of said shaft track-ways, respectively, and each bearing an inverted trackway upon the upper bar adapted to register with the corresponding track-way upon the shaft, and a handle attached to the outer end of said shaft, a multiplicity of flexible frames comprising end and intermediate posts and flexible bands attached to and binding said posts together and suitable casters and rollers mounted upon said posts and adapted to guide said flexible frames along and within said track-ways.

1,394,470. FURNACE. HENRY L. CHARLES, New York, N. Y. Filed Jan. 23, 1920. Serial No. 353,392. 1 Claim. (Cl. 263—46.)



The method of forming the roof of a furnace of the class described consisting in molding an integral structure of highly refractory material over the fire brick arch of the furnace, allowing the same to set, and baking the same with the furnace gases.

1,394,471. ORE-SMELTING FURNACE. HENRY L. CHARLES, New York, N. Y. Filed Jan. 23, 1920. Serial No. 353,393. 3 Claims. (Cl. 263—46.)



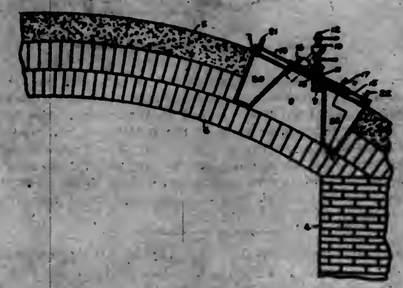
1. In combination with a furnace of the class described an abutment between the side walls of adjacent furnaces, and means in combination therewith for varying the width of said abutment adjacent the ends of the arch roofs of said furnaces.

1,394,472. SMELTING OF ORES. HENRY L. CHARLES, New York, N. Y. Filed Jan. 23, 1920. Serial No. 353,394. 1 Claim. (Cl. 75—27.)



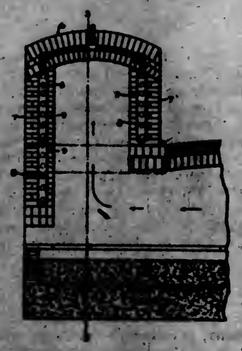
The method of smelting ores consisting in applying means after the ore is smelted for changing the relative specific gravities of the slag and metal for separating the same.

1,394,473. ORE-SMELTING FURNACE. HENRY L. CHARLES, New York, N. Y. Filed Jan. 23, 1920. Serial No. 353,395. 5 Claims. (Cl. 263—24.)



1. In combination with a furnace of the class described and the ore inlet therefor, of a water box surrounding said ore inlet and a water jacket around said ore inlet nozzle.

1,394,474. ORE-SMELTING FURNACE. HENRY L. CHARLES, New York, N. Y. Filed Jan. 23, 1920. Serial No. 353,396. 2 Claims. (Cl. 263—44.)



1. In combination with a furnace of the class described and adjacent the throttle portion of the flue thereof, means for shutting part of the heat therefrom.

1,394,475. COUNTER FOR LOCKS. EDWARD HARRIS CASSEY, Hartford, Conn., assignor to The Veeder Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed Mar. 16, 1921. Serial No. 451,452. 1 Claim. (Cl. 70—6.)



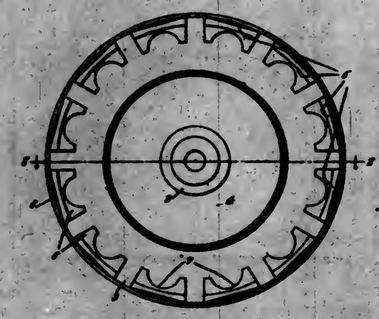
The combination with a lock having a key-operated cylinder, of a counter, a spring pressed belt member, a plate secured to the cylinder and having an arm in operative engagement with the belt member and a second arm, and an operative connection between said second arm and the counter.

1,394,476. ATTACHER FOR BUTTON-FASTENERS. HARRY H. DANIELS, Winthrop, Mass. Filed Dec. 19, 1919. Serial No. 346,005. 5 Claims. (Cl. 24—208.)



1. An attacher for a button base, comprising clamping members for engaging opposite sides of a material piece, one thereof having a projection through said material piece, and the other thereof having means permitting said projection to be passed freely therethrough to operative position and adapted for automatic self-binding engagement with said projection as said members are pressed into assembled relation.

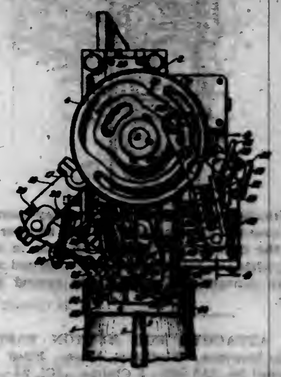
1,394,477. WHEEL. EDWARD PARK DICKEY, Harvey, Ill. Filed Apr. 21, 1919. Serial No. 291,501. 2 Claims. (Cl. 301—42.)



1. A wheel rim comprising a circular primary tread and a secondary tread disposed laterally to and radially nearer

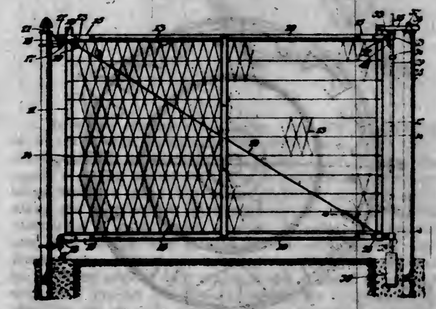
the center from the primary heads; said secondary head being composed of symmetrical sections all a regular polygon separated at the angles thereof to provide unobstructed and breaking recesses and positioned to provide interrupted load bearing surfaces as chords of the primary tread and forwardly and rearwardly presented traction shoulders in planes substantially radial to said circumference.

1,394,478. FASTENER AND SLUG-INSERTING MACHINE. STEPHEN A. DOSTER, St. Louis, Mo., assignor to Champion Shoe Machinery Company, St. Louis, Mo., a Corporation of Missouri. Filed July 19, 1918. Serial No. 245,730. 36 Claims. (Cl. 1—28.)



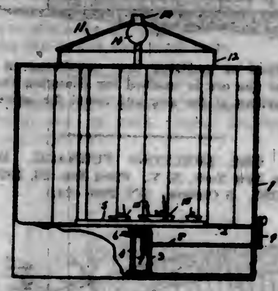
1. In a machine for selectively inserting fasteners or slugs, the combination with driving means, of means for guiding strings of connected fasteners and connected slugs, a throat adapted to selectively receive the strings from said guiding means, feeding and cutting means, constructed and arranged to selectively feed the strings by engagement with the head end of a fastener or slug on a selected string, and constructed and arranged to cut the selected string, adapted to selectively position a cut fastener or slug in said throat, work puncturing and feeding mechanism including a work feeding awl, and means for moving said awl and said throat into and out of the line of drive.

1,394,479. GATE. FREDERICK W. EWALD, Brooklyn, and HERBERT G. THOMSON, New York, N. Y.; said Ewald assignor to said Thomson. Filed Dec. 30, 1919. Serial No. 348,328. 2 Claims. (Cl. 256—73.)



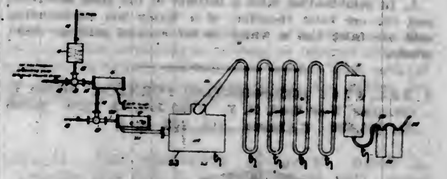
1. In a gate, a frame structure including upper and lower parallel rails, two pairs of vertical bars at the respective ends of said rails, the bars of each pair being in spaced relation to each other, parallel chord members on said bars embracing the rails and connected thereto at the respective corners of the structure, upper and lower hinge elements fitted between and secured to said bars and chord members at one end of the structure, one of said elements having a diagonal perforation therein, a tensioning member fitted to said perforation, and a diagonal brace rod engaged at one end with said member and secured at its opposite end to the frame structure.

1,394,480. KALEIDOSCOPE. WILLIAM E. FRANN, Camden, N. J. Filed Dec. 29, 1919. Serial No. 348,174. 2 Claims. (Cl. 88—16.)



1. A kaleidoscope comprising a body open at its upper end, a hood mounted on said body and disposed across the opening, said hood being spaced from the top of the body to permit an angular view of the interior of the body, a series of mirrors within the body disposed at angles to each other within a circle and producing the general effect of a star in horizontal cross section and a lamp mounted in the center of the hood above the common center of the series of mirrors.

1,394,481. PROCESS OF CRACKING AND DISTILLING OIL. JAMES T. FENTON, Salt Lake City, Utah. Filed May 1, 1920. Serial No. 378,216. 2 Claims. (Cl. 196—25.)



1. The hereinbefore described process of treating oils which consists in cracking or disrupting the molecular structure of the oils by heat supplied solely by the direct contact of superheated steam under pressure with said oils while in a subdivided and agitated condition and while continuously flowing from a source of supply toward a condenser; so controlling the heat and pressure of the superheated steam as to crack a portion of the constituents of the oil, passing the cracked and uncracked constituents to a separator, there expanding and separating said constituents, drawing off the heavier fractions, and then progressively condensing the lighter fractions of the product.

1,394,482. SUBMARINE SIGNALING. REGINALD A. FESSENDEN, Brookline, Mass., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed Mar. 29, 1917. Serial No. 158,457. 5 Claims. (Cl. 181—0.5.)

1. Means for locating the direction of submarine sounds, comprising a plurality of submarine sound detectors,

means for acoustically insulating each one of said detectors from the other detector, and means for rotating into and maintaining in any desired position the sound



screen acoustically-insulating means, whereby the intensity of the received signals is caused to vary and indicate the direction from which the sounds are received.

1,394,483. METHOD AND APPARATUS FOR SUBMARINE SIGNALING. REGINALD A. FESSENDEN, Chestnut Hill, Mass., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed July 21 1919. Serial No. 312,318. 3 Claims. (Cl. 116—27.)



1. In the art of submarine and airship signaling, a vessel, a source of sound located on said vessel, a receiver of sound located on said vessel, and a sound shadow producing means located between said source of sound and said receiver of sound.

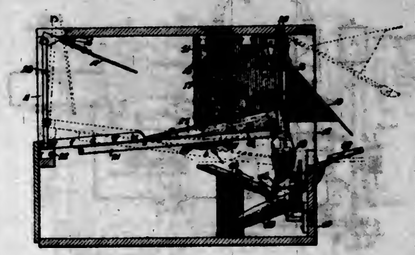
1,394,484. THERMOMETER. WALTER H. FITTS, Foxboro, Mass., assignor to The Foxboro Company, Foxboro, Mass., a Corporation of Massachusetts. Filed May 12, 1919. Serial No. 296,692. 6 Claims. (Cl. 73—52.)



1. A thermometer having a reservoir for expansible fluid, the expansion of which provides an indication of the temperature to be measured, said reservoir consisting of an exteriorly threaded shell of conducting material whereby it may be placed in intimate contact with a solid body the temperature of which it is desired to measure.

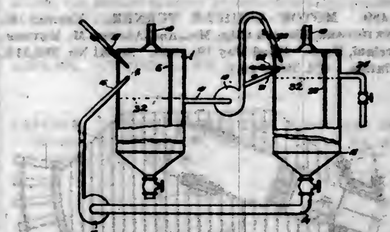
1,394,485. TRAP-NEST. ALBERT G. FOSTER and PERCY M. FOSTER, Berkeley, Cal. Filed Dec. 19, 1919. Serial No. 345,561. 7 Claims. (Cl. 119—47.)

1. A trap nest, comprising a housing, an entry door and two exit doors through the walls thereof, a false floor within the housing pivoted midway its length for vertical swinging movement, a nest on one end of the false floor, an egg tray below said nest, a pivotal support for said tray, said support being adapted to normally lock one of the exit doors, and with the presence of an egg on the tray to unlock the normally locked exit door and lock the other exit door, means whereby the presence of a hen on the nest will act to swing the nest and its supporting floor down-



wardly and close the entry door, tread members exterior of the exit doors and means whereby the presence of a hen upon either of said tread members will cause the nest and its supporting floor to swing upwardly and open the entry door, and the upward movement of the supporting floor causing an egg to roll from the tray and permit the pivot support of said tray to return to its original locked position.

1,394,486. PROCESS OF TREATING OILS. ARTHUR E. FOSTER, Washington, D. C. Filed Oct. 15, 1917. Serial No. 196,691. 21 Claims. (Cl. 196—26.)



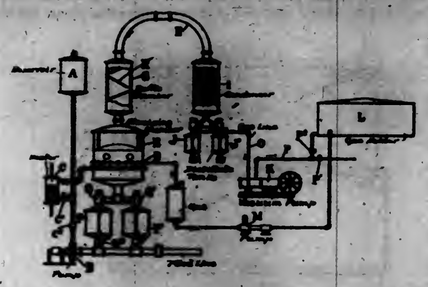
1. In the chemical treatment of mineral oil products, the step of directing a plurality of traveling free jets of liquid into contact with each other, one of said jets comprising a mineral oil product, and another of said jets comprising a chemical adapted to react with such mineral oil product, said jets meeting each other at an angle and flowing, at the time of meeting, at a speed sufficient to disintegrate each other.

1,394,487. IGNITER. CHARLES M. FRENCH, Seymour, Conn. Filed Mar. 21, 1921. Serial No. 454,189. 4 Claims. (Cl. 87—7.1.)



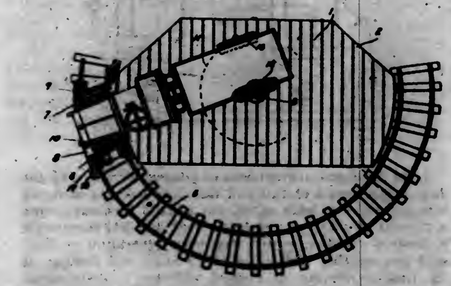
1. An igniter comprising a cylinder, a cross head arranged in said cylinder, means for raising and lowering said cross head, a wick arranged in said cylinder and secured to said cross head, a cap mounted on the upper end of said cylinder, a cup removably mounted on the cylinder, and a pyrophoric element mounted on said cup.

1,394,488. PROCESS OF FRACTIONALLY DISTILLING MIXTURES CONTAINING HYDROCARBONS. EDWARD H. FRANCIS, Kingsport, Tenn. Filed July 10, 1919. Serial No. 309,249. 8 Claims. (Cl. 196—37.)



1. In the process of fractionally distilling a complex liquid mixture containing hydrocarbons, heating such liquid in transit from a reservoir to a temperature below the average boiling point of the fraction to be distilled while in the mixture but sufficiently to vaporize such fraction from the mixture upon atomization with an inert gas, immediately subjecting the thus heated mixture to such atomization with an inert gas in a separating chamber, condensing the vaporized fraction and promptly removing the residue from said chamber.

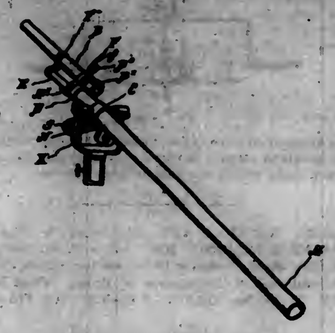
1,394,489. MOTOR-VEHICLE TURNER. VERNON E. FUNKHOUSER, Kansas City, Mo., and ALFRED M. MEYERS, Merriam, Kans. Filed May 19, 1920. Serial No. 382,518. 7 Claims. (Cl. 104—44.)



1. In a turn table for vehicles, a platform, a rotatable wheel support carried by the platform, blocks for checking the rear wheel of the motor vehicle to the wheel support, an arcuate track concentric with the wheel support, and a carriage for supporting the front wheels of the vehicle movable over the track.

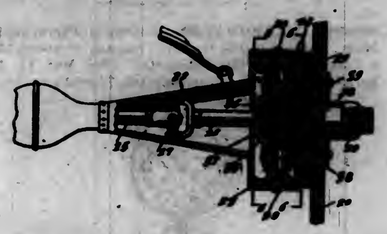
1,394,490. NON-RECOIL GUN. JULIAN A. GILES, Derby, Conn., assignor to The General Ordnance Co., Groton, Conn., a Corporation of Connecticut. Filed Oct. 3, 1918. Serial No. 256,686. 21 Claims. (Cl. 89—40.)

2. In a non recoil gun of the character described, the combination with a trunnion head, and a forward barrel held therein, said forward barrel being provided with segmental screw threads on the exterior of its rear end and with a rearwardly projecting segment having internal segmental screw threads therein, of a rear barrel having external segmental screw threads engaging said internal screw threads on the rearwardly projecting segment of the forward barrel, and having a forwardly projecting segment provided with internal segmental screw threads engaging



the external segmental screw threads on the forward barrel, with means for turning said rear barrel about its axis for locking and unlocking said coacting screw threads, and for swinging said rear barrel laterally to clear said front barrel, substantially as described.

1,394,491. AXLE-MOUNTING. NICHOLAS J. GONDOLF, New Orleans, La. Filed Sept. 20, 1919. Serial No. 325,071. 2 Claims. (Cl. 301—133.)

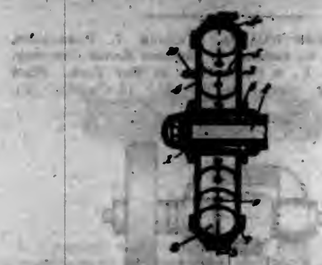


1. A shaft or axle having an outer vertically swinging wheel supporting extension, a bearing sleeve through which the said extension is rotatable having vertically extending portions at its outer end, a stationary housing around the axle or shaft having an enlarged cylindrical portion around the said bearing sleeve and open at its outer end, a plate interfitting the outer end of the said cylinder and having a vertical slot in which the said extensions of the bearing sleeve are slidably disposed to prevent rotation of the sleeve, fastening members entering said cylinder in a circumferential series and extending into said plate to detachably hold the latter in place, and means within the cylinder and interposed between the same and the said bearing sleeve to tension vertical yielding movements of the swinging part of the axle or shaft, as described.

1,394,492. CUSHION VEHICLE-WHEEL. WILLIAM B. GOODWIN, Columbus, Ohio. Filed May 12, 1919. Serial No. 296,339. 2 Claims. (Cl. 152—30.)

2. A cushion vehicle wheel comprising a hub, annular disks secured to and spaced apart upon the hub, a tire located at the peripheries of the disks, and a series of concentric arched rings located between the disks, between

the hub and the tire, and secured to the disks, the rings having their convex sides facing the hub, said rings being spaced apart, the spaces between the tire and the outermost ring, the hub and the innermost ring, and between the rings communicating.

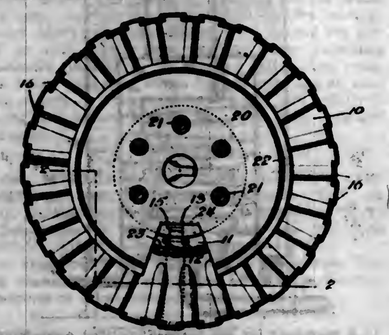


1,394,493. COMBINATION AUTOMOBILE-CREEPER. CHARLES J. GRAESER, Pittsburgh, Pa., assignor of one-half to Thos. Trepanowski, Pittsburgh, Pa. Filed Jan. 21, 1920. Serial No. 352,126. 4 Claims. (Cl. 5—9.)



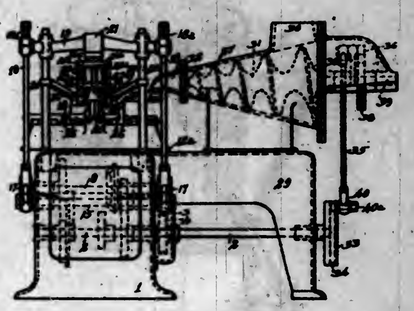
4. A combination automobile creeper embodying hinged seat and back sections, forward legs hinged to the seat section, rear legs hinged to the rear section in a manner to fold transversely of the longitudinal axis of the rear section and to be disposed between the seat and rear sections when in folded position, coöperating means carried by the rear section and legs for engagement with the seat section for holding the rear section in vertical position and alined with the rear legs and coöperating means carried by the rear legs and rear section for holding the rear legs perpendicular relative to the seat section.

1,394,494. SAFETY AND GUIDE ATTACHMENT FOR MACHINE-GUN MAGAZINES. SAMUEL G. GREEN, U. S. Army. Filed July 2, 1919. Serial No. 308,302. 5 Claims. (Cl. 89—33.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. A safety and guide attachment for machine gun magazines of the drum type, consisting of a plate adapted to partly cover the feed-way, and a lip carried by the plate resting across the feed-way.

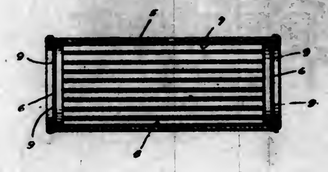
1,394,495. CLAY-WORKING MACHINERY. WALTER A. GRUNSMAN, Birmingham, Mich., assignor to Joseph L. Marcero, Pontiac, Mich. Filed July 30, 1919. Serial No. 314,246. 6 Claims. (Cl. 25—6.)



1. In a clay working machine, a base, a rotatable top thereon, molds on the said top, means for rotating the top a quarter of a turn at a time, means for opening and closing the molds, and means for brushing out the molds, means for inserting clay into the molds, means for coring out the molded clay, and means for opening the molds to deliver the molded product at each successive quarter turn of the machine top.

1,394,496. [WITHDRAWN.]

1,394,497. INSECT-DESTROYER. BENJAMIN HELLER, Chicago, Ill. Filed Nov. 29, 1920. Serial No. 427,054. 1 Claim. (Cl. 43—131.)

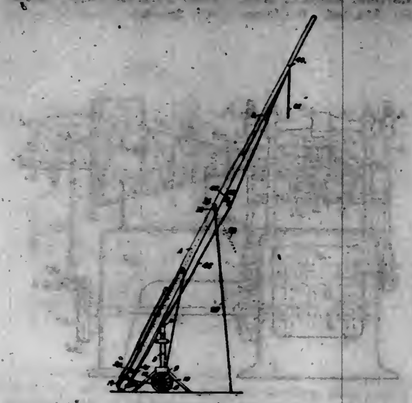


An insect exterminator, comprising a container, closures for the ends of the container and provided with insect entrances, and a cellular filler in the container, said filler being treated with a poisonous substance, and its cells being accessible from the entrance openings and running in the direction of the length of the container between the aforesaid end closures thereof.

1,394,498. LADDER-RAISING DEVICE. HUBERT J. HOPKINS, San Francisco, Calif. Filed Feb. 18, 1920. Serial No. 359,604. 16 Claims. (Cl. 228—5.)

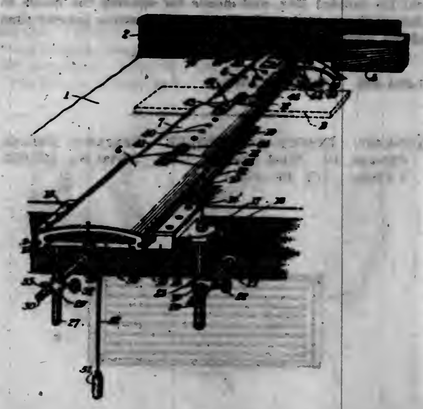
1. The combination with a ladder of the character described, of a carriage adapted to support one end thereof, wheels on the carriage, means permitting tilting move-

ment of the ladder with relation to the carriage, means for locking the ladder against tilting movement about the



carriage, and means permitting vertical movement of the carriage with relation to the ladder.

1,394,499. JOINTER-GUARD. PHINEAS C. INGSTRUM, Rochester, N. Y. Filed May 11, 1920. Serial No. 380,627. 12 Claims. (Cl. 144—251.)

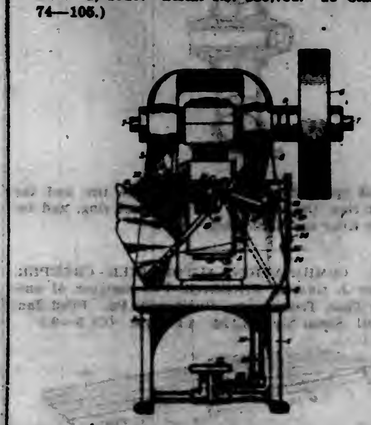


1. In a machine having a rotary cutter mounted on a table and projecting through a slot therein, the combination with a guard having a cam end and normally covering the slot, of a toggle arm pivoted to the guard, the toggle arm being adapted to move the guard as the work is fed toward the cutter into a position where the work will come in contact with the cam end on the guard.

1,394,500. METHOD OF MAKING ABRADING-TOOLS. CLARENCE ROSCOE KING, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 4, 1918. Serial No. 261,166. 2 Claims. (Cl. 12—38.)

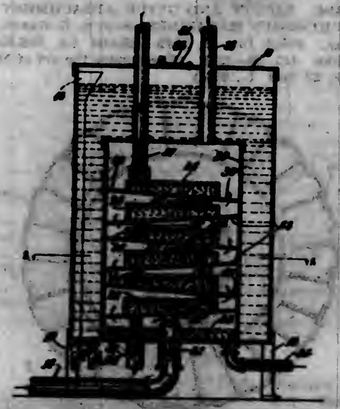
1. The method of making abrading tools, comprising mixing emery, a vulcanization accelerating compound, and alkaline grains with rubber while heating the rubber to render it more plastic, subjecting the mass to high pressure for a few minutes to shape the tool and thereafter vulcanizing the tool for several hours in a single heat treatment, while confining the mass to prevent deformation thereof.

1,394,501. PRESS-GUARD. WILLIAM J. PARKINSON, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Nov. 21, 1919. Serial No. 339,751. 13 Claims. (Cl. 74—105.)



1. In a safety guard for punch presses, the combination of a bed, a frame and a ram movable in the frame with a safety guard, operating mechanism for the safety guard adapted to move said guard across the bed and back at each actuation of the ram, a lever for contacting with a part of the safety guard when the same is at rest, the lever alone receiving and taking up the shock from the safety guard when it returns from an actuation.

1,394,502. CONDENSING APPARATUS. JOSEPH Y. PISCEK, Gallup, N. Mex., assignor of one-half to John Gullas, Gallup, N. Mex. Filed Apr. 20, 1920. Serial No. 375,185. 4 Claims. (Cl. 196—13.)



1. A condenser for the purpose specified comprising an outer casing, an inner casing spaced at sides and top from the sides and top of said outer casing, and means providing zigzag vapor and water passages leading between top and bottom of said inner casing.

1,394,503. DENTAL X-RAY-FILM PACKET. RAYMOND R. TAYLOR, Rochester, N. Y. Filed Jan. 8, 1919. Serial No. 270,167. 6 Claims. (Cl. 250—94.)



2. A package comprising a sheet of sensitive material, a protective sheet on each side thereof, a protective envelop containing said sensitized material and said first named sheets and a strip of material lying partially beneath one of said inner protective sheets and extending through said envelop to form a tab, by manipulation of which the protective sheet and envelop may be disrupted to furnish access to the sensitive material.

1,394,504. METHOD OF REGISTERING PROJECTED IMAGES. JOHN G. CAPSTAFF, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 5, 1920. Serial No. 371,462. 2 Claims. (Cl. 88—16.4.)



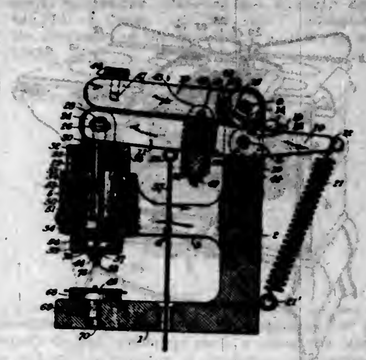
1. The method of perfecting the registration of two images of the same subject projected through independent optical systems and superposed from opposite directions upon the same exposure and focusing plane that consists of inserting in said plane a focusing screen upon which projected images are visible by reflected and by transmitted light, inserting into said optical systems contrasting color filters whereby additive color images are projected on said screen from opposite sides, examining said additive images, one by reflected and one by transmitted light, upon said screen for the presence of color fringes caused by imperfect registration and relatively adjusting said optical systems to correct such imperfect registration.

1,394,505. CELLULOSE-ETHER SOLVENT AND COMPOSITION. JOHN M. DENOHUE, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 10, 1921. Serial No. 436,284. 3 Claims. (Cl. 134—79.)

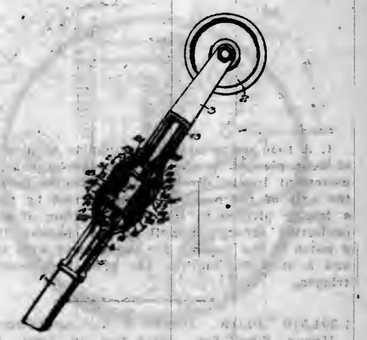
1. A viscous flowable film-forming composition, consisting essentially of an alkyl ether of cellulose dissolved in a mixture of chloroform and ethyl alcohol.

1,394,506. RIVETING-MACHINE. HARVEY C. GEARS, Rochester, N. Y. Filed June 21, 1920. Serial No. 390,569. 10 Claims. (Cl. 78—82.)

1. In a riveting machine, the combination with a reciprocating work-holding pad, of a riveting tool confined to a predetermined path by the pad, a lever for reciprocating the work-holding pad, and a hammer for striking the riveting tool, the lever actuating the hammer.



1,394,507. TROLLEY-HARP CARRIER. CHARLES J. DORRANCE, Chicago, Ill. Filed Apr. 21, 1920. Serial No. 375,541. 18 Claims. (Cl. 191—59.)

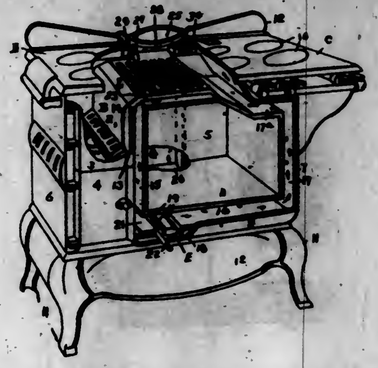


1. In a trolley pole attachment of the kind described and in combination, a plurality of coöperating members in direct electrical contact with one another, a coöperating body part of yieldable material arranged between the said members, and adjustable means for connecting said members together.

1,394,508. STOVE. JOHN W. DU PUY, Beaver Falls borough, Pa. Filed Nov. 10, 1920. Serial No. 423,029. 9 Claims. (Cl. 126—36.)

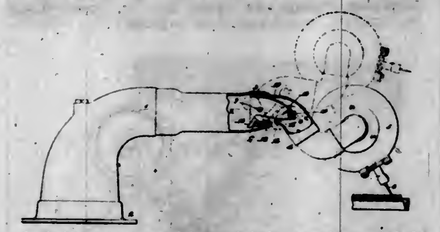
1. In a cooking stove, the combination of an oven, a bottom flue beneath said oven and into which the products of fuel combustion are discharged, a vertical flue at each side of said oven connected at their lower ends with the ends of said bottom flue, a pair of top flues above said oven, one of said top flues being di-

rectly connected with each of said vertical flues and said top flues being sealed from each other, and a throat box



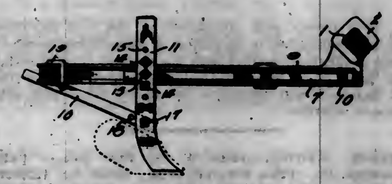
at the rear of said stove directly connected to each of said top flues.

1,394,509. TONE-ARM. LOUIS D. NADEL, Newark, N. J., assignor, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Filed Jan. 23, 1919. Serial No. 272,681. 4 Claims. (Cl. 274—23.)



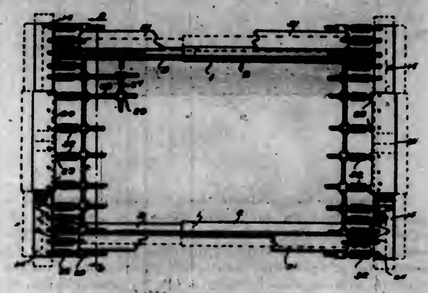
1. A tone-arm comprising a tubular member, a tubular element pivoted in the member and capable of pivotal movement in the direction perpendicular to the line of the axis of the member, a pin carried by the element, a trigger pivoted to the pin, a portion of said trigger projecting through a wall of the element, there being a notch in the member for engagement with the trigger, and a stop for limiting the pivotal movement of the trigger.

1,394,510. PLOW. JOSEPH E. NAIL and THEOPHILUS P. HENRY, Eden, Tex. Filed Dec. 14, 1920. Serial No. 430,649. 2 Claims. (Cl. 97—1.)



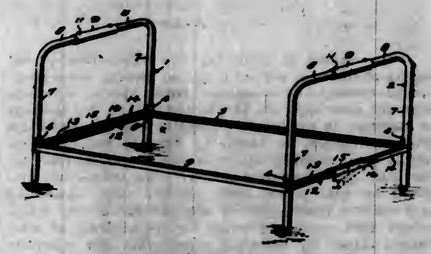
1. In a wheel plow attachment of the class described comprising a longitudinally extending, offset channel beam, a vertically adjustable, bifurcated pivotally supported standard carried thereby, said beam being located in the bifurcation and an angularly extending, adjustable brace adapted to be secured to the frame of the wheel plow and to the standard.

1,394,511. BED-SPRING. ABRAHAM TAMARIN, FRANK TAMARIN, and MAX HENDLER, Hudson, N. Y., assignors to Komfytite Spring and Bed Corporation, Hudson, N. Y., a Corporation of New York. Filed Mar. 1, 1921. Serial No. 448,778. 2 Claims. (Cl. 5—65.)



1. An adjustable bed spring comprising a pair of telescopic side members, brackets arranged on the ends of said side members, an end member secured to the pair of brackets at each end of the spring, said end members comprising a pair of angle irons, one of which is secured to each of said brackets, an angle iron member arranged to receive the adjacent ends of said angle irons, said member being provided with flanges to retain said angle irons in position, and a spring structure comprising a pair of sections, each of said sections being secured at its ends to said angle irons, said spring structures being overlapped at the center and secured to said angle iron member.

1,394,512. ADJUSTABLE BEDSTEAD. ABRAHAM TAMARIN, FRANK TAMARIN, and MAX HENDLER, Hudson, N. Y., assignors to Komfytite Spring and Bed Corporation, Hudson, N. Y., a Corporation of New York. Filed Mar. 14, 1921. Serial No. 452,035. 2 Claims. (Cl. 5—8.)



1. An adjustable bedstead comprising a head board and a foot board, side rails connecting said head board and foot board, said head board and foot board each comprising a pair of posts and a transverse member connecting said posts, means for adjusting said transverse member, an end rail connecting each pair of posts, each of said end rails comprising a pair of channel shaped sections, one of said sections being secured to each post, a locking member hinged to one section adjacent its inner end, and means for retaining the other section within said locking member.

1,394,513. SASH-LOCK CONSTRUCTION. CHARLES ALDONESI, Dumont, N. J. Filed Oct. 22, 1920. Serial No. 418,841. 8 Claims. (Cl. 292—60.)

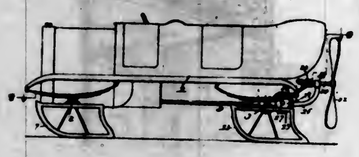
1. In window construction, the combination of upper and lower sliding sashes, having horizontal openings

through the frame of the lower and extending into the frame of the upper sash, respectively, adapted to aline when both sashes are closed, said upper sash opening having a locking socket extension, the upper sash having a vertical guideway of length less than that of the sash and communicating with said upper sash opening, a barrel in said lower sash opening, having a keyhole slot therein, a spindle mounted in said barrel, having a head adapted to be inserted in said socket extension, or



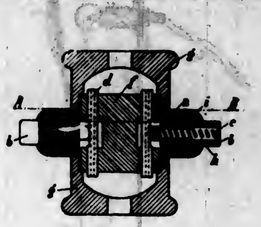
alined with said guideway, or positioned in front of said guideway, in non-obstructing position, when said horizontal openings are alined, said spindle having three spaced projections of which two, one, or none, are adapted to pass through said slot, in one angular position of said spindle, and in accordance with whether said head is the first, second or third of the positions referred to, said projections being adapted to lock said spindle against axial movement, upon rotation of said spindle to a different angular position, in any of said three positions.

1,394,514. SLEIGH ATTACHMENT FOR AUTOVEHICLES. OSCAR T. BACKLUND, Deer Lodge, Mont. Filed Mar. 5, 1919. Serial No. 280,808. 1 Claim. (Cl. 180—3.)



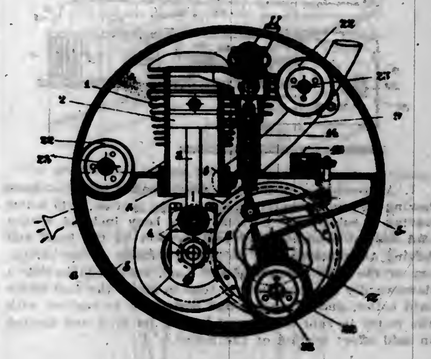
The combination with an auto vehicle having forward and rear axles, the latter of which is a differential axle, of runners mounted on both axles, a frame mounted on the rear axle, a propeller rotatably mounted in the frame, a countershaft journaled in the frame, gears carried at the ends of the countershaft, gears carried on the two sections of the differential axle and meshing with the aforesaid gears, a beveled gear mounted on the countershaft, a second shaft journaled in the frame, a beveled gear carried by said second shaft and meshing with the first said beveled gear, and a universal connection between said latter shaft, and the propeller whereby motion is transmitted to the latter in the manner specified.

1,394,515. ROTARY ELECTRIC SWITCH. ANTON ALBERT BUCK, Zurich, Switzerland. Filed Aug. 6, 1917, Serial No. 184,782. Renewed Mar. 2, 1921. Serial No. 449,272. 1 Claim. (Cl. 200—155.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



A rotary electric switch for connecting up two electric resistances, which consists in the combination of a transversely divided cylindrical shell, a concentric block fixed in said shell, a plurality of cylindrical longitudinally disposed pin contacts carried in a circular line in said block, an annular disk turnably engaged between and projecting concentrically from the periphery of said shell, and diametral spring-tube contacts secured in the annular disk for automatic engagement and disengagement between any two of said cylindrical pin contacts.

1,394,516. MOTORCYCLE. ANTOINE BURLAT and ALFRED RENAUDIN, Lyon, France. Filed Feb. 24, 1920. Serial No. 360,782. 3 Claims. (Cl. 180—10.)

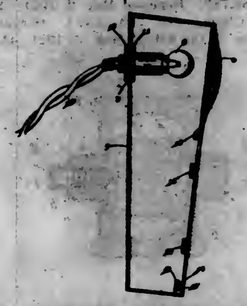


1. In a motor cycle a motor fixed centrally within a wheel of said cycle, a cylindrical casing surrounding said motor, a wheel hub surrounding said casing, gearing between said casing and hub, roller bearings between said wheel hub and said casing and elastic means whereby the power of the motor is transmitted to said wheel in a constant and even manner.

1,394,517. AUTOMOBILE LAMP AND LICENSE-PLATE HOLDER. JOHN K. MCCULLAGH, Toronto, Ontario, Canada. Filed May 20, 1921. Serial No. 472,752. 1 Claim. (Cl. 40—132.)

A device of the character stated, comprising a housing, a lens positioned therein, means to illuminate said lens, a license plate positioned in the front wall of said housing, and a longitudinal member within the housing at the bottom thereof, having a longitudinal groove to receive

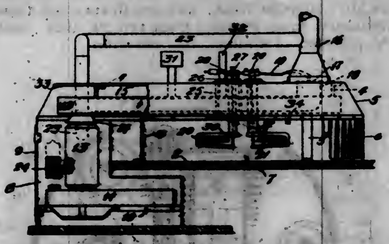
said license plate and outwardly extended transfixing leg members stamped from the vertical wall of said member



to engage and resiliently press said license plate against the inner face of the wall of the housing.

REISSUES.

15,207. BROODER. MARY CHASE BARON, Hampden Meadows, R. I. Filed Jan. 12, 1921. Serial No. 436,571. Original No. 1,329,494, dated Feb. 3, 1920, Serial No. 289,710, filed Apr. 12, 1919. 8 Claims. (Cl. 119—34.)



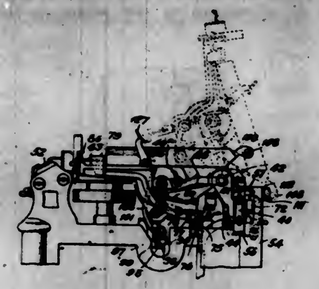
1. A brooder, comprising a drum shaped boiler, a hood having an approximately circular body portion, said boiler having a substantial portion of its body inclosed within and shaped concentrically with respect to the hood and having an offset portion projecting outside of the periphery of the body portion of the hood, said hood having a downwardly flared peripheral edge to direct the heat under said boiler, and a heating flue positioned to contact with the water in said boiler, and having its inlet end located in said offset portion of the boiler.

15,208. RUST-RESISTING ALLOY OF IRON. GEORGE H. CHARLS, Canton, Ohio. Filed Mar. 21, 1921. Serial No. 454,228. Original No. 1,363,564, dated Dec. 28, 1920, Serial No. 332,912, filed June 30, 1920. 8 Claims. (Cl. 75—1.)

1. A rust-resisting alloy comprising iron, and small but effective amounts of copper and molybdenum.

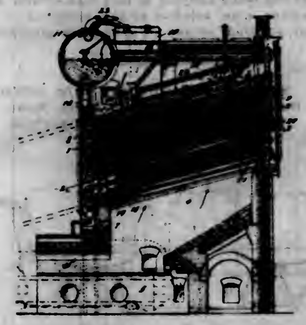
15,209. TYPEWRITING-MACHINE. FREDERIC W. HULLAM, Tottenville, N. Y., assignor of one-half to Mary R. Millard, Middlebury, Conn. Filed Feb. 2, 1921. Serial No. 442,285. Original No. 1,290,987, dated Mar. 11, 1919, Serial No. 108,758, filed June 18, 1915. 23 Claims. (Cl. 197—64.)

1. In a typewriting machine, in combination, a carriage supported at the rear of the machine, a carriage structure pivotally mounted thereon and supported at the front on a guide rail, and a locking means to prevent an endwise movement of the carriage under the influence of the motor spring, said locking means being ineffective when the carriage structure is in normal operating position on the guide rail and becoming effective as the carriage is raised therefrom.



2. In a typewriting machine, in combination, with a carriage structure of the visible type, a truck at the rear of the machine to form a traveling support for the carriage, a pivotal connection intermediate the truck and the carriage whereby the carriage may be pivotally swung upward about the truck, and locking means to prevent an endwise movement of the carriage under the influence of the motor spring when the said carriage is being swung upward.

15,210. SUPERHEATER-BOILER. ARTHUR D. PRATT, Short Hills, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed May 14, 1921. Serial No. 469,568. Original No. 1,206,246, dated Nov. 28, 1916, Serial No. 54,708, filed Oct. 8, 1915. 6 Claims. (Cl. 122—476.)



3. A water tube boiler having longitudinal water tubes, a superheater having transversely extending heat tubes between the water tubes, and baffling for directing the products of combustion, said baffling having a horizontally extending baffle above the lower water tubes to expose them to the flame and gases for the major portion of their length and an upwardly projecting baffle extending therefrom transversely of the water tubes above the superheater and arranged to give the gases a restricted upward transverse pass across the water tubes located above the superheater.

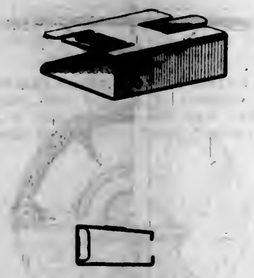
DESIGNS.

59,401. HANDLE FOR A SPOON, KNIFE, FORK, OR ANALOGOUS UTENSIL. GROSVENOR N. ALLEN, Oneida, N. Y. Filed May 14, 1920. Serial No. 382,197. Term of patent 14 years.



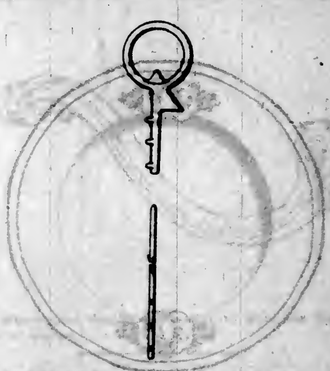
The ornamental design for a handle for a spoon, knife, fork, or analogous utensil, as shown.

59,402. MATCH-BOX HOLDER. HARRY L. BEACH, Coshocton, Ohio. Filed Mar. 12, 1921. Serial No. 451,830. Term of patent 7 years.



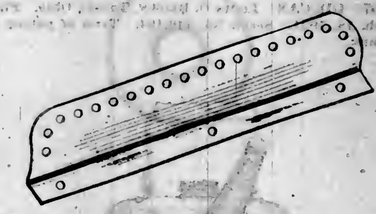
The ornamental design for a match box holder, substantially as shown.

59,403. COMBINED BOTTLE-OPENER AND DOOR-LOCK. OLIVER E. BENNETT, New York, N. Y. Filed Feb. 23, 1921. Serial No. 447,339. Term of patent 14 years.



The ornamental design for a combined bottle opener and door lock, as shown.

59,404. TOE-PLATE FOR THE RUNNING-BOARDS OF AUTOMOBILES. CUTHBERT C. BERGSTROM, Denver, Colo. Filed Dec. 13, 1919. Serial No. 344,599. Term of patent 14 years.



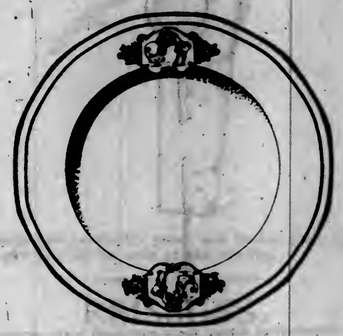
The ornamental design for a toe plate for the running boards of automobiles as shown.

59,405. HANDLE FOR SPOONS, FORKS, OR SIMILAR ARTICLES. MORTON BERNSTEIN, New York, N. Y. Filed Mar. 10, 1921. Serial No. 451,300. Term of patent 14 years.



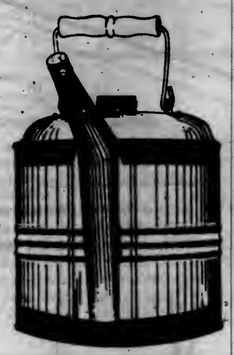
The ornamental design for a handle for spoons, forks, or similar article, as shown and described.

59,406. PLATE OR SIMILAR ARTICLE. ALPHONSE BIER, Brooklyn, N. Y. Filed June 10, 1921. Serial No. 476,579. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown.

59,407. OIL-CAN. LOUIS O. BROWN, Toledo, Ohio. Filed Feb. 18, 1921. Serial No. 446,194. Term of patent 14 years.



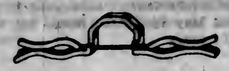
The ornamental design for an oil can, as shown.

59,408. COLLAR-CLASP. FIRM B. BYERS, New York, N. Y. Filed May 3, 1921. Serial No. 466,622. Term of patent 14 years.



The ornamental design for a collar clasp, as shown.

59,409. COLLAR-CLASP. FIRM B. BYERS, New York, N. Y. Filed May 3, 1921. Serial No. 466,623. Term of patent 14 years.



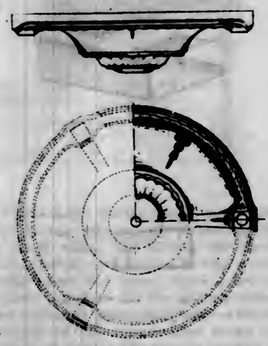
The ornamental design for a collar clasp, as shown.

59,410. RIVET-PUNCH. LUCIUS L. CAILLET, Riverside, Calif., and CLYDE C. CAILLET, Johnstown, Colo. Filed Jan. 3, 1919. Serial No. 269,540. Term of patent 14 years.



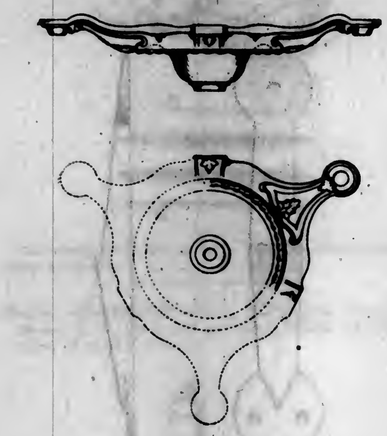
The ornamental design for a rivet punch, as shown.

59,411. SUPPORT-PLATE FOR LIGHTING-FIXTURES. THURE DAHL, New York, N. Y., assignor to Lightolier Company, a Corporation of New York. Filed Feb. 10, 1921. Serial No. 444,032. Term of patent 3½ years.



The ornamental design for a support plate for lighting fixtures as shown.

59,412. SUPPORT-PLATE FOR LIGHTING-FIXTURES. THURE DAHL, New York, N. Y., assignor to Lightolier Company, a Corporation of New York. Filed Feb. 10, 1921. Serial No. 444,033. Term of patent 3½ years.



The ornamental design for a support plate for lighting fixtures as shown.

59,413. SOCKET-COVER FOR LIGHTING-FIXTURES. THURE DAHL, New York, N. Y., assignor to Lightolier Company, a Corporation of New York. Filed Feb. 10, 1921. Serial No. 444,037. Term of patent 3½ years.



The ornamental design for a socket cover for lighting fixtures as shown.

59,414. SOCKET-COVER FOR LIGHTING-FIXTURES. THURE DAHL, New York, N. Y., assignor to Lightolier Company, a Corporation of New York. Filed Feb. 10, 1921. Serial No. 444,038. Term of patent 3½ years.



The ornamental design for a socket cover for lighting fixtures as shown.

59,415. FIXTURE-ARM FOR LIGHTING-FIXTURES. THURE DAHL, New York, N. Y., assignor to Lightolier Company, a Corporation of New York. Filed Feb. 10, 1921. Serial No. 444,039. Term of patent 3½ years.



The ornamental design for a fixture arm for lighting fixtures as shown.

59,416. CAKE OF SOAP. MAX FINGER, Chicago, Ill. Filed Oct. 26, 1920. Serial No. 419,739. Term of patent 14 years.



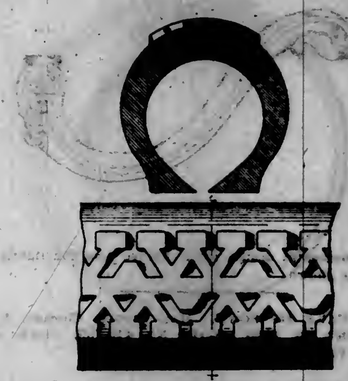
The ornamental design for a cake of soap, as shown.

59,417. SOCKET-WRENCH. DAVID F. GRAHAM, Coudersport, Pa., assignor to Graham Roller Bearing Company, Coudersport, Pa., a Corporation. Filed Mar. 22, 1920. Serial No. 367,880. Term of patent 3½ years.



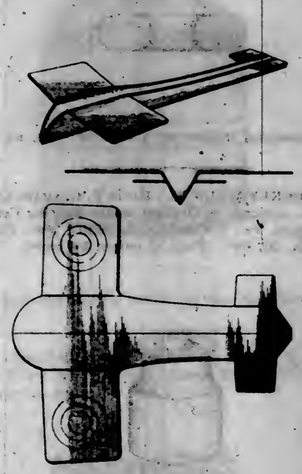
The ornamental design for a socket wrench as shown.

59,418. TIRE FOR MOTOR-VEHICLES. Charles Grew, Boston, Mass., assignor to George Grew Tire Company, Boston, Mass. Filed May 10, 1921. Serial No. 468,629. Term of patent 14 years.



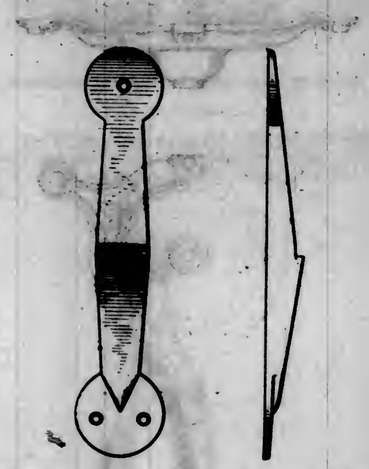
The ornamental design for a tire for motor vehicles as shown.

59,419. FLYING TOY. Riddle D. Haworth, Pittsburgh, Pa., assignor to Haworth & Dewhurst, Limited, Pittsburgh, Pa., a Partnership composed of Riddle D. Haworth, J. Fred Haworth, and A. R. Darragh. Filed June 28, 1920. Serial No. 392,527. Term of patent 3½ years.



The ornamental design for a flying toy as shown.

59,420. ICE-BOX-DOOR CLEAT. August G. Hillenbrand, Jr., Jersey City, N. J. Filed May 10, 1921. Serial No. 469,984. Term of patent 3½ years.



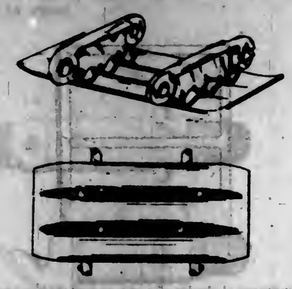
The ornamental design for an ice box door cleat, as shown.

59,421. PLANING-MACHINE FRAME. Ira T. Howard. Canton, Ohio. Filed Nov. 5, 1920. Serial No. 422,056. Term of patent 14 years.



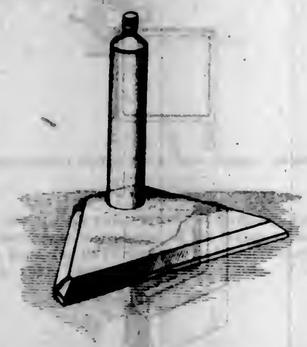
The ornamental design for a planing machine frame, as shown.

59,422. TREAD-BELT LINK. Charles A. Johnson, Toledo, Ohio. Filed June 28, 1920. Serial No. 392,108. Term of patent 3½ years.



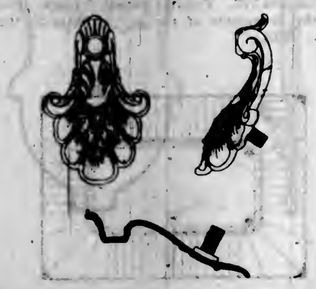
The ornamental design for a tread belt link, substantially as shown.

59,423. ADVERTISING-SIGN. Clifford G. King, Providence, R. I. Filed Nov. 17, 1920. Serial No. 424,795. Term of patent 14 years.



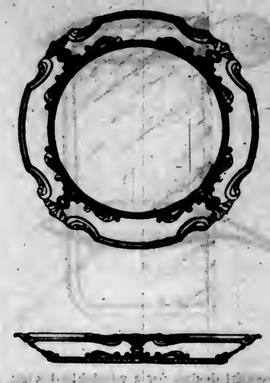
The ornamental design for an advertising sign, as shown.

59,424. ARM FOR LIGHTING-FIXTURES. Stephen Kostszewski, New York, N. Y., assignor to Robert Findlay Manufacturing Co., New York, N. Y., a Corporation of New York. Filed Mar. 9, 1921. Serial No. 450,974. Term of patent 7 years.



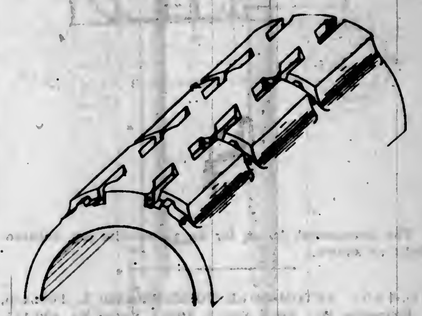
The ornamental design for an arm for lighting fixtures, as shown.

59,425. RING FOR LIGHTING-FIXTURES. Stephen Kostszewski, New York, N. Y., assignor to Robert Findlay Manufacturing Co., New York, N. Y., a Corporation of New York. Filed Mar. 9, 1921. Serial No. 450,975. Term of patent 7 years.



The ornamental design for a ring for lighting fixtures, as shown.

59,426. NON-SKID TREAD FOR AIRLESS OR PNEUMATIC TIRES. John A. MacMillan, Dayton, Ohio. Filed Dec. 17, 1920. Serial No. 431,487. Term of patent 7 years.



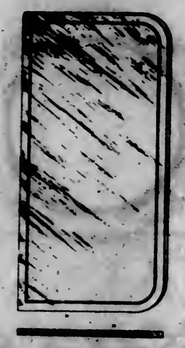
The ornamental design for a non-skid tread for airless or pneumatic tires as shown.

59,427. CLOTHESLINE-HOLDER. Francis T. Murray, Chicago, Ill. Filed Nov. 20, 1920. Serial No. 425,572. Term of patent 7 years.



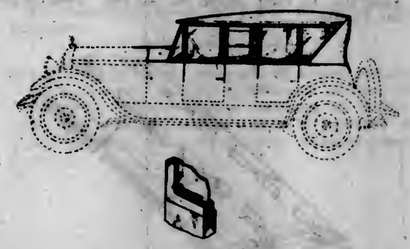
The ornamental design for a clothesline holder as shown.

59,428. WINDSHIELD-WING. Ralph D. Parkes, San Francisco, Calif., assignor of one-fourth to Francis M. Wright and one-fourth to Charles J. Cluan, San Francisco, Calif. Filed Aug. 31, 1920. Serial No. 407,270. Term of patent 3½ years.



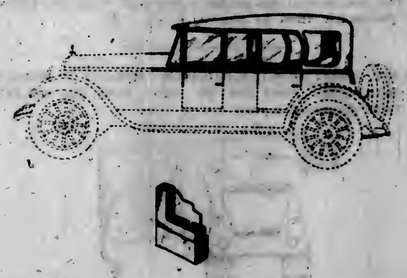
The ornamental design for a windshield wing, as shown.

59,429. AUTOMOBILE TOP. Willard L. Pollard, Evanston, Ill. Filed Aug. 6, 1921. Serial No. 490,414. Term of patent 14 years.



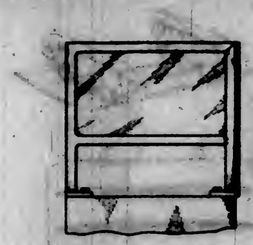
The ornamental design for an automobile top, substantially as shown.

59,430. AUTOMOBILE TOP. Willard L. Pollard, Evanston, Ill. Filed Aug. 6, 1921. Serial No. 490,415. Term of patent 14 years.



The ornamental design for an automobile top, substantially as shown.

59,431. AUTOMOBILE-PANEL. Willard L. Pollard, Evanston, Ill. Filed Aug. 6, 1921. Serial No. 490,416. Term of patent 14 years.



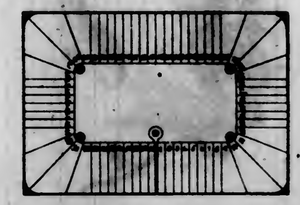
The ornamental design for an automobile panel substantially as shown.

59,432. AUTOMOBILE-PANEL. Willard L. Pollard, Evanston, Ill. Filed Aug. 6, 1921. Serial No. 490,417. Term of patent 14 years.



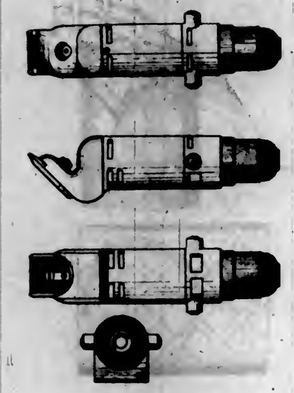
The ornamental design for an automobile panel substantially as shown.

59,433. GAME-BOARD. Albert Romez-Cuillier and Jean Célier, Bordeaux, France. Filed Dec. 31, 1920. Serial No. 434,377. Term of patent 7 years. (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



The ornamental design for a game board, as shown.

59,434. HAIR-CLIPPER. Ervin J. Rust, Cleveland, Ohio, assignor of one-half to S. T. Rinker, Cleveland, Ohio. Filed June 1, 1921. Serial No. 474,274. Term of patent 14 years.



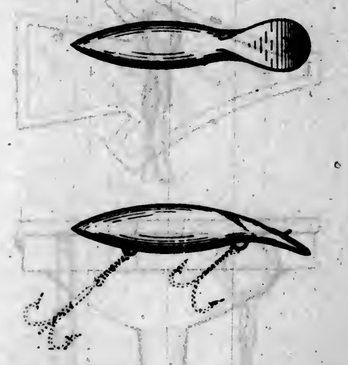
The ornamental design for a hair clipper, as shown.

59,435. BACK FOR LIGHTING-FIXTURES. John William Schuler, Providence, R. I., assignor to Alfred Vester Sons, Inc., a Corporation of Rhode Island. Filed Mar. 5, 1921. Serial No. 450,105. Term of patent 7 years.



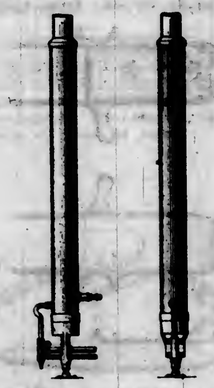
The ornamental design for a back for lighting fixtures, as shown.

59,436. ARTIFICIAL BAIT. Fillmore M. Smith, Syracuse, N. Y., assignor, by mesne assignments, to James Heddon's Sons, Inc., Dowagiac, Mich., a Corporation of Michigan. Filed Mar. 22, 1915. Serial No. 16,290. Term of patent 14 years.



The ornamental design for an artificial bait as shown.

59,437. GAS WATER-HEATER. Joseph Oscar Smith, Los Angeles, Calif., assignor of one-half to John B. Reeves, Los Angeles, Calif. Filed Oct. 12, 1920. Serial No. 416,559. Term of patent 14 years.



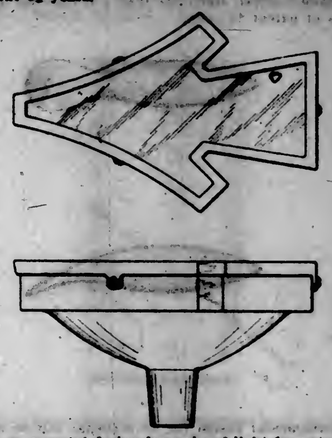
The ornamenal design for a gas water heater substantially as shown and described.

59,438. CONTAINER FOR SACHET-POWDER OR SIMILAR ARTICLES. William S. Stock, Portland, Oreg. Filed Dec. 23, 1920. Serial No. 432,878. Term of patent 7 years.



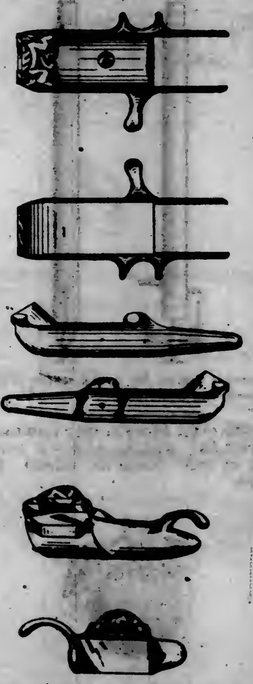
The ornamental design for a container for sachet powder or similar article, as shown.

59,439. SIGNAL-LIGHT FOR AUTOMOBILES. John H. Wiggs and James B. Stubenvazz, Los Angeles, Calif. Filed Aug. 17, 1920. Serial No. 404,574. Term of patent 3½ years.



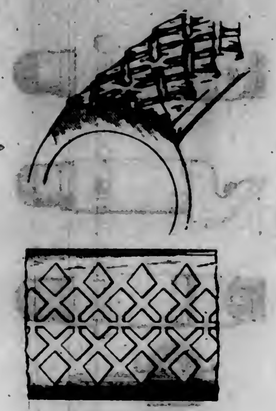
The ornamental design for a signal light for automobiles as shown.

59,440. CASE FOR HAIR-CUTTING MACHINES. Epifanio V. N. Tomasulo, Cincinnati, Ohio. Filed Apr. 4, 1921. Serial No. 458,548. Term of patent 14 years.



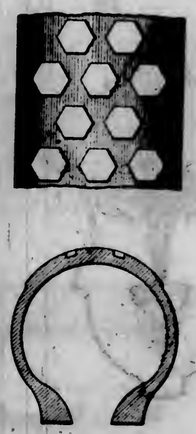
The ornamental design for a case for hair cutting machines, substantially as shown.

59,441. TIRE. Roland S. Trogner, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 23, 1921. Serial No. 454,905. Term of patent 3½ years.



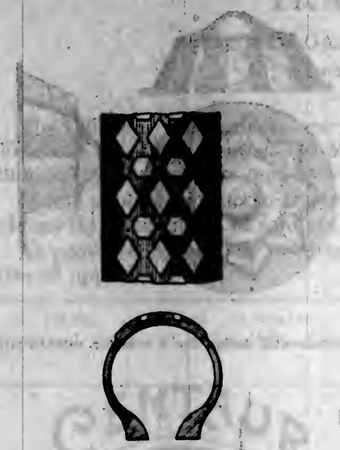
The ornamental design for [illegible]

59,442. TIRE. Roland S. Trogner, Akron, Ohio, assignor to the Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 23, 1921. Serial No. 454,906. Term of patent 3½ years.



The ornamental design for a tire as shown.

59,443. TIRE. Roland S. Trogner, Akron, Ohio, assignor to the Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 23, 1921. Serial No. 454,907. Term of patent 3½ years.



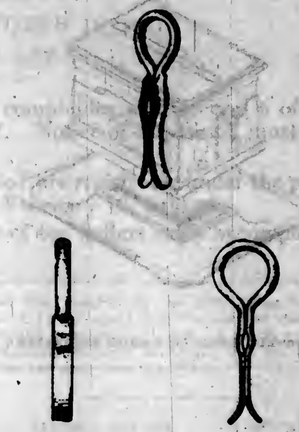
The ornamental design for a tire as shown.

59,444. AUTOMOBILE-SIGNAL. Louis Vote, McDonald, Pa. Filed Apr. 26, 1921. Serial No. 464,696. Term of patent 3½ years.



The ornamental design for an automobile signal as shown.

59,445. CLOTHESPIN. Henry White, Minor, N. D. Filed May 23, 1921. Serial No. 471,902. Term of patent 14 years.



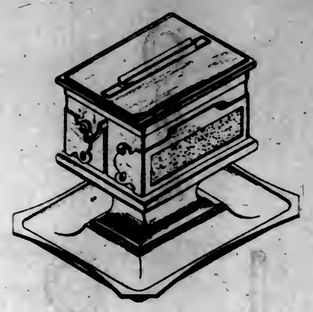
The ornamental design for a clothespin, as shown.

59,446. PLATE OR SIMILAR ARTICLE OF TABLEWARE. Harry C. Whorf, Winthrop, Mass., assignor to Waldorf System Incorporated, Boston, Mass., a Corporation of Massachusetts. Filed May 26, 1921. Serial No. 472,921. Term of patent 14 years.



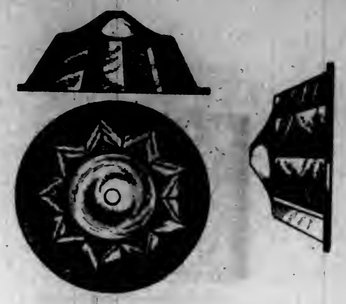
The ornamental design for a plate or similar article of tableware, as shown.

59,447. MATCH-BOX. WILLY ZEBRA, New York, N. Y. Filed Dec. 6, 1920. Serial No. 428,320. Term of patent 3½ years.



The ornamental design for a match box as shown.

59,448. REFLECTOR. EDWARD ZIMMERMANN, Jr., Fairview, N. J. Filed Mar. 10, 1921. Serial No. 451,201. Term of patent 3½ years.



The ornamental design for a reflector substantially as shown.

TRADE-MARKS

OFFICIAL GAZETTE, OCTOBER 18, 1921.

[PUBLISHED OCTOBER 25, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 106,587. (CLASS 39. CLOTHING.) RICE & HUTCHINS INCORPORATED, Boston, Mass. Filed Oct. 3, 1917.



Particular description of goods.—Boots, Shoes, and Slippers Made Wholly or in Part of Leather or Textile Material.

Claims use since June 12, 1915.

Ser. No. 106,719. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) G. F. KRUEGER & CO. INC., Indianapolis, Ind. Filed Oct. 11, 1917.



The lining appearing on the letters forming part of the drawing is for shading purposes only, while the lining on the ground and the border of the figure indicates color, red and blue, respectively, no claim being made to the letters "L I N E" apart from the mark as shown.

Particular description of goods.—A Polish for Varnished and Enameled Surfaces, Furniture, and the Like.

Claims use since Sept. 26, 1917.

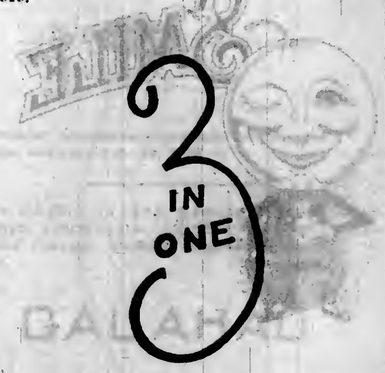
Ser. No. 115,591. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TOMODA GOSHI KAISHA, Tokyo, Japan. Filed Feb. 3, 1919.

URARGOL

Particular description of goods.—A Preparation for Gonorrhea.

Claims use since May 1, 1918.

Ser. No. 116,598. (CLASS 39. CLOTHING.) HOSIERY CLEARING HOUSE, INC., New York, N. Y. Filed Mar. 15, 1919.



Particular description of goods.—Hosiery.

Claims use since Feb. 28, 1919.

Ser. No. 124,208. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE FOX RIVER COMPANY, Elgin, Ill. Filed Oct. 27, 1919.

ARISTO

Particular description of goods.—Scouring-Powders for Cleaning Wood, Metal, Enamelled, and other Glossy Surfaces, and Soaps.
Claims use since Mar. 25, 1919.

Ser. No. 126,727. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOLDEN-LEONARD COMPANY, New York, N. Y. Filed Jan. 2, 1920.

LUELLA

Particular description of goods.—Worsted and Woolen Textile Fabrics in the Piece.
Claims use since Dec. 1, 1919.

Ser. No. 129,153. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SMILE CO., Minneapolis, Minn. Filed Mar. 2, 1920.



Particular description of goods.—A Sugar Preparation from Fruit Acid for Making Sherbet, Ices, Cake-Frosting.
Claims use since on or about Jan. 18, 1911.

Ser. No. 129,616. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MINNIE WUNDER, Los Angeles, Calif. Filed Mar 12, 1920.



The portrait is that of my daughter, Alice Wunder Bayley, whose written consent to the use thereof is filed. No claim is made to the words "Hair Off" apart from the mark shown.
Particular description of goods.—A Superfluous-Hair Remover.
Claims use since 1915.

Ser. No. 129,790. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE MARATHON TIRE & RUBBER COMPANY, Cuyahoga Falls, Ohio. Filed Mar. 16, 1920.

VICTORY

Particular description of goods.—Composition Soling Material in Sheet Form.
Claims use since May 15, 1919.

Ser. No. 131,531. (CLASS 20. LINOLEUM AND OILED CLOTH.) TILOLEUM LTD., London, England. Filed Apr. 22, 1920.

TILOLEUM

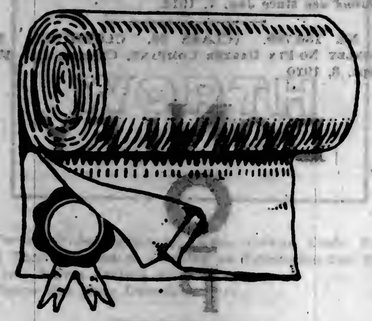
Particular description of goods.—Linoleum in the Upper Surface of which Grooves are Formed and Filled with Cement.
Claims use since Dec. 29, 1910.

Ser. No. 131,723. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOUIS B. FRANCHINA, Cleveland, Ohio. Filed Apr. 28, 1920.



Being a facsimile of the applicant's signature.
Particular description of goods.—Hair-Tonics.
Claims use since Feb. 1, 1920.

Ser. No. 132,003. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) REDCOMB SPRING, New York, N. Y. Filed May 6, 1920.



The applicant hereby disclaims the exclusive right to the representation of a roll of cloth apart from the mark as shown.
Particular description of goods.—Woolen Piece Goods and Worsted Piece Goods, Worsted and Cotton Piece Goods, Worsted Woolen Piece Goods, Fancy Worsted Piece Goods, and Decorated Worsted Piece Goods.
Claims use since about Dec. 24, 1919.

Ser. No. 132,719. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BALSAMEA CO., San Francisco, Calif. Filed May 21, 1920.

SYRUP LEPTINOL

Particular description of goods.—Medical Preparation Used in the Treatment of Epidemic Influenza, Pneumonia, Bronchitis, Bronchial Asthma, Whooping-Cough, and Respiratory Diseases.
Claims use since December, 1919.

Ser. No. 134,182. (CLASS 39. CLOTHING.) GOLDSTEIN-LASAR COMPANY, INC., New York, N. Y. Filed June 24, 1920.



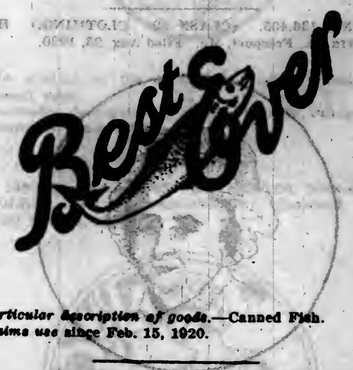
Applicant disclaims any rights to the words "Real Values" apart from the mark shown in the drawing.
Particular description of goods.—Hosiery.
Claims use since May 1, 1920.

Ser. No. 134,488. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN MILLER, Mobile, Ala. Filed June 30, 1920.

MILLER'S ROSY

Particular description of goods.—An Antiseptic and Eczema Preparation.
Claims use since about June 15, 1919.

Ser. No. 134,953. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) K. HOVDEN COMPANY, Monterey, Calif. Filed July 14, 1920.



Particular description of goods.—Canned Fish.
Claims use since Feb. 15, 1920.

Ser. No. 136,010. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) PERCY B. T. WILLIAMS, Philadelphia, Pa. Filed Aug. 11, 1920.

Silk [redacted] Drawn

Particular description of goods.—Toothbrushes.
Claims use since June 24, 1920.

Ser. No. 136,256. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) HADFIELDS LIMITED, Sheffield, England. Filed Aug. 19, 1920.

GALAHAD

Particular description of goods.—Harness-Bits, Stirrups, Harness-Buckles, Harness-Rings, Harness-Chains, Harness-Hooks, and Harness-Staples.
Claims use since Feb. 22, 1918.

Ser. No. 136,334. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) MUTUAL TRADING COMPANY, New York, N. Y. Filed Aug. 23, 1920.

ORIOLA

Particular description of goods.—Phonographs, Talking-Machines, and Records Therefor.
Claims use since Jan. 5, 1918.

Ser. No. 136,465. (CLASS 39. CLOTHING.) H. E. DAVIS CO., Freeport, Me. Filed Aug. 25, 1920.



Consisting of a portrait of Martha Washington, deceased.
Particular description of goods.—Leather Shoes.
Claims use since 1895.

Ser. No. 136,765. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) ROCHESTER STAMPING COMPANY, Rochester, N. Y. Filed Sept. 2, 1920.



Particular description of goods.—Condiment Sets, Sandwich-Plates, Horse-Radish Jars, Bonbon-Dishes, Syrup-Pitchers, Relish-Dishes, Baking-Dishes, Salad-Bowls, Beefsteak-Dishes, Casseroles, Pie-Dishes, Chop-Plates, Cheese-Dishes, and Coffee-Urns, All Plated or Ornamented with Precious Metal.
Claims use since Jan. 1, 1913.

Ser. No. 136,780. (CLASS 39. CLOTHING.) THE DONLEY NO-PIN GARTER COMPANY, Chicago, Ill. Filed Sept. 2, 1920.

DONLEY NO-PIN

Particular description of goods.—Garters.
Claims use since May 18, 1920.

Ser. No. 136,852. (CLASS 27. HOROLOGICAL INSTRUMENTS.) ADOLPHE SCHWOB, INC., New York, N. Y. Filed Sept. 4, 1920.

MYSTERIA

Particular description of goods.—Watches.
Claims use since Jan. 2, 1911.

Ser. No. 137,773. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) STEWART P. FOLTS, Newcastle, Pa. Filed Sept. 30, 1920.

DISCOIN

Particular description of goods.—Metal Tokens or Savings-Checks.
Claims use since Aug. 1, 1920.

Ser. No. 138,846. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) INTERNATIONAL SALT CO. OF NEW YORK, New York, N. Y. Filed Oct. 21, 1920.

YORKSHIRE

Particular description of goods.—Dairy and Table Salt and Common, Coarse, and Fine Salt.
Claims use since Mar. 1, 1890.

Ser. No. 138,786. (CLASS 39. CLOTHING.) WORTH, INC., New York, N. Y. Filed Oct. 23, 1920.

WORTH

Particular description of goods.—Gowns, Coats, Suits, and Furs Attached to Clothing as Trimmings and Made Up into Scarfs, Jackets, and Capes.
Claims use since December, 1913.

Ser. No. 139,500. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) THE CLEVELAND GAS BURNER & APPLIANCE CO., Cleveland, Ohio. Filed Nov. 11, 1920.

CLEVEOIL

Particular description of goods.—Burner Equipments Sold as a Complete System for Furnaces, Ranges, and Stoves.
Claims use since on or about October, 1919.

Ser. No. 139,614. (CLASS 17. TOBACCO PRODUCTS.) WILLIAM A. HOLLINGSWORTH, New York, N. Y. Filed Nov. 13, 1920.

Hollingsworth's Drury Lane

Consisting of the words "Hollingsworth's Drury Lane."
Particular description of goods.—Smoking-Tobacco.
Claims use since about Jan. 1, 1914.

Ser. No. 139,846. (CLASS 15. OILS AND GREASES.) CHESEBROUGH MANUFACTURING COMPANY, CONSOLIDATED, New York, N. Y. Filed Nov. 19, 1920.

Vaseline

Particular description of goods.—Petroleum Jelly, Oil Petrol, White Mineral Oil, and Oil of Petroleum, All for Lubricating Purposes.
Claims use since 1870.

Ser. No. 140,119. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE R. C. HELLER COMPANY, Baltimore, Md. Filed Nov. 24, 1920.



The shading on the drawing not being intended to represent color.
Particular description of goods.—Feather Pillows.
Claims use since 1905.

Ser. No. 140,150. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE SCHUSTER COMPANY, Cleveland, Ohio. Filed Nov. 24, 1920.



Particular description of goods.—Crushed Fruits for Use in Making Soda-Fountain Drinks, Fruit Syrups for Making Non-Alcoholic Maltless Beverages Sold as Soft Drinks and Fruit Syrup for Making Beverages Sold as Soft Drinks Containing Less Than One-Half of One Per Cent. Alcohol, by Volume, and the Beverages Made Therefrom.
Claims use since Dec. 8, 1918.

Ser. No. 140,194. (CLASS 17. TOBACCO PRODUCTS.) FRANK J. MACKEY, Frankfort, Ind. Filed Nov. 26, 1920.

EXPERIENCE

Particular description of goods.—Cigars.
Claims use since Mar. 15, 1919.

Ser. No. 140,695. (CLASS 17. TOBACCO PRODUCTS.) Lorillard & Myers Tobacco Company, New York, N. Y. Filed Dec. 6, 1920.

Clipper

Particular description of goods.—Smoking and Chewing Tobacco.
Claims use since about 1858.

Ser. No. 140,762. (CLASS 17. TOBACCO PRODUCTS.) G. W. Van Slyck & Meeker, Albany, N. Y. Filed Dec. 7, 1920.

Odd Moments

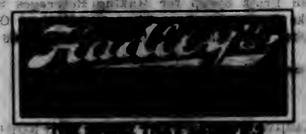
Particular description of goods.—Cigars.
Claims use since Nov. 8, 1920.

Ser. No. 140,898. (CLASS 17. TOBACCO PRODUCTS.) The J. C. Newman Cigar Company, Cleveland, Ohio. Filed Dec. 10, 1920.



Particular description of goods.—Cigars.
Claims use since about and including 1906.

Ser. No. 140,995. (CLASS 32. FURNITURE AND UPHOLSTERY.) The Hadley Co., Springfield, Ohio. Filed Dec. 13, 1920.



Particular description of goods.—Upholstered and Unupholstered Furniture Consisting of Bedroom, Dining-Room, and Living-Room Suites, Including Davenports, Rockers, Chairs, Beds, Dressers, Dressing-Tables, Chiffoniers, China-Closets, Buffets, Dining-Room Chairs and Tables.
Claims use since Oct. 1, 1920.

Ser. No. 141,264. (CLASS 17. TOBACCO PRODUCTS.) Friedmuth Bro. & Company, Incorporated, Philadelphia, Pa. Filed Dec. 18, 1920.

Nationals

Particular description of goods.—Cigarettes.
Claims use since Jan. 1, 1920.

Ser. No. 141,392. (CLASS 17. TOBACCO PRODUCTS.) Maurice Rosenthal, San Francisco, Calif. Filed Dec. 22, 1920.



Particular description of goods.—Cigars.
Claims use since Nov. 15, 1920.

Ser. No. 141,600. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) Robert A. Patterson, New Market, N. J. Filed Dec. 24, 1920.

FAIRHOLME

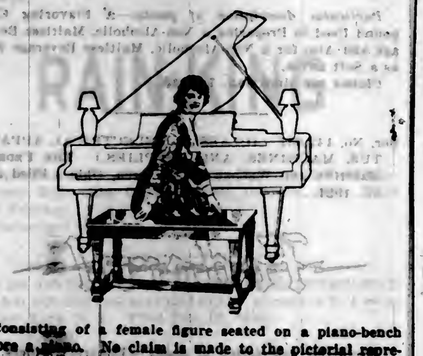
Particular description of goods.—Horses and Mules.
Claims use since as early as December, 1911.

Ser. No. 141,765. (CLASS 39. CLOTHING.) Arlee Manufacturing Company, Baltimore, Md. Filed Jan. 3, 1921.



Particular description of goods.—Underwear, One and Two Piece Garments for Men, Either Knitted or Textile, Pajamas, and Dress, Negligée, and Work Shirts for Men.
Claims use since Jan. 1, 1914.

Ser. No. 141,814. (CLASS 32. FURNITURE AND UPHOLSTERY.) Tonk Manufacturing Co., Chicago, Ill. Filed Jan. 3, 1921.



Consisting of a female figure seated on a piano-bench before a piano. No claim is made to the pictorial representation of a bench apart from the mark shown in the drawing.
Particular description of goods.—Piano-Benches.
Claims use since June 2, 1920.

Ser. No. 142,076. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) The Heger Bird Company, St. Paul, Minn. Filed Jan. 11, 1921.



No claim is made to the phrase "Use Heger's Natural Fish Food" apart from the other features of the mark.
Particular description of goods.—Fish Food.
Claims use since Jan. 1, 1909.

Ser. No. 142,077. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) The Heger Bird Co., St. Paul, Minn. Filed Jan. 11, 1921.



No claim is made to the phrase "Heger's Seeds, Foods, and Remedies are the Best" apart from the other features of the mark.
Particular description of goods.—Bird Seeds and Foods.
Claims use since Jan. 1, 1900.

Ser. No. 142,083. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Rena P. King, Shelby, Miss. Filed Jan. 11, 1921.



Particular description of goods.—Dressing-Oil, Hair-Grower, Tetter Remedy, Temple-Grower, Liquid Shampoo, Face-Cream, Shampoo-Cream, Perfume, and Cold-Cream.
Claims use since July 1, 1920.

Ser. No. 142,084. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Gus Lanka, Los Angeles, Calif. Filed Jan. 11, 1921.



The words "Poultry Pox Powder" are disclaimed apart from the mark shown.
Particular description of goods.—Poultry Medicinal Powder.
Claims use since Dec. 31, 1920.

Ser. No. 142,317. (CLASS 11. INKS AND INKING MATERIALS.) EMIL B. BECCARD, St. Louis, Mo. Filed Jan. 17, 1921.

DOUBLE B

Particular description of goods.—Printers'-Ink Varnish.
Claims use since on or about Jan. 17, 1913.

Ser. No. 142,763. (CLASS 15. OILS AND GREASES.) NORTHWESTERN PETROLEUM COMPANY, Appleton, Wis. Filed Jan. 25, 1921.



Particular description of goods.—A Lubricating-Oil.
Claims use since Jan. 27, 1920.

Ser. No. 142,771. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH A. ARNOLD, Providence, R. I. Filed Jan. 26, 1921.

POLLENOID

Particular description of goods.—Medicinal Preparation for Hay-Fever.
Claims use since May, 1916.

Ser. No. 142,832. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) ENO-SHELL COMPANY, INC., San Francisco, Calif. Filed Jan. 27, 1921.

Menlo

Particular description of goods.—A Flavoring Compound Used in Preparing a Non-Alcoholic, Maltless Beverage and Also for a Non-Alcoholic, Maltless Beverage Sold as a Soft Drink.
Claims use since October, 1906.

Ser. No. 142,833. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) ENO-SHELL COMPANY, INC., San Francisco, Calif. Filed Jan. 27, 1921.



ROYAL CROWN

Particular description of goods.—A Flavoring Compound Used in Preparing a Non-Alcoholic, Maltless Beverage and Also for a Non-Alcoholic, Maltless Beverage Sold as a Soft Drink.
Claims use since Jan. 1, 1915.

Ser. No. 142,837. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE FEDERAL MACHINE AND WELDER CO., Warren, Ohio. Filed Jan. 27, 1921.

Federal

Particular description of goods.—Electric Welders and Parts Thereof.
Claims use since September, 1917.

Ser. No. 142,852. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PFEIFFER BROS., Brooklyn, N. Y. Filed Jan. 27, 1921.



No claim is made to the words "Trade Mark" or to the words "A One" apart from the remaining features of the mark.
Particular description of goods.—Barley-Malt Syrup for Use in Baking and Candy-Making.
Claims use since Jan. 14, 1921.

Ser. No. 143,062. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAVIS LE ROY RITTENHOUSE, Norristown, Pa. Filed Feb. 9, 1921.

Roiskreme

Particular description of goods.—Skin-Lotion.
Claims use since Dec. 1, 1919.

Ser. No. 143,419. (CLASS 39. CLOTHING.) ALLIGATOR OIL CLOTHING COMPANY, St. Louis, Mo. Filed Feb. 11, 1921.

RAIN-KING

Particular description of goods.—Waterproof Clothing—Namely, Raincoats, Capes, Jackets, Overalls, Hats, Caps, and Ponchos.
Claims use since Jan. 20, 1921.

Ser. No. 143,505. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FLORENCE N. LEWIS, New York, N. Y. Filed Feb. 12, 1921.

LEMONIES

Consists of the word "Lemonies."
Particular description of goods.—Toilet Soaps.
Claims use since Sept. 3, 1920.

Ser. No. 143,604. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) F. C. HUYCK & SONS, Albany, N. Y. Filed Feb. 15, 1921.

KENWOOD KOVERLET

No claim being made to the word "Koverlet" apart from the mark shown in the drawing.
Particular description of goods.—Bedspreads and Couch-Covers.
Claims use since about Jan. 1, 1920.

Ser. No. 143,918. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHINOIN GYÓGYSZER ÉS VEGYÉSZETI TERMÉKEK GYÁRA R. T. (DR KERESZTY ÉS DR. WOLF), Ujpest, Hungary. Filed Feb. 23, 1921.

Distol

Particular description of goods.—Preparations for Distoma.
Claims use since Jan. 31, 1918.

Ser. No. 143,959. (CLASS 27. HOROLOGICAL INSTRUMENTS.) M. A. MEAD & COMPANY, Chicago, Ill. Filed Feb. 23, 1921.

Boulevard

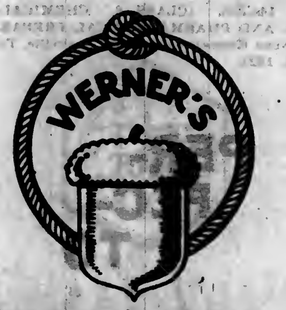
Particular description of goods.—Watches, Watch-Movements, and Watchcases.
Claims use since on or about Oct. 15, 1920.

Ser. No. 143,991. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. B. MILLAR & COMPANY, Chicago, Ill. Filed Feb. 24, 1921.

GOLDEN CHARM

Particular description of goods.—Coffee.
Claims use since Feb. 21, 1921.

Ser. No. 144,058. (CLASS 39. CLOTHING.) FRANK WARNER, San Francisco, Calif. Filed Feb. 25, 1921.



NOT-A-CORN

Particular description of goods.—Men's, Women's, Misses', Youths', Children's, Infants' Shoes, Boots, Slippers, Pumps, and Oxfords Made of Leather and Canvas, Rubber, Cloth, Fabric, and of Combinations of Any of Said Materials.
Claims use since Jan. 15, 1921.

Ser. No. 144,115. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Western Hair Goods Co., Chicago, Ill. Filed Feb. 26, 1921.

Magic Western Maid

Particular description of goods.—Hair-Dye & Remover.
Claims use since Nov. 1, 1920.

Ser. No. 144,158. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. Schuellee, Paris, France. Filed Feb. 28, 1921.

L'ORÉAL

Particular description of goods.—Dyes for Hair and Beard, Lotions for Skin and Hair, Dentifrices, Perfumery, and Materials for Coloring the Flesh.
Claims use since Sept. 1, 1908.

Ser. No. 144,333. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Alexander Kendrick Johnson, Nashville, Tenn. Filed Mar. 5, 1921.

PER-FEC-TO

Particular description of goods.—A Medicinal Preparation for the Treatment of the Liver, Kidneys, Stomach, Nerves, Impure Blood, Backache, Rheumatism, Influenza, Colds, La Grippe, Chills, Malarial Fever, Constipation, Loss of Appetite, Asthma, Dropsy, Run-Down Systems, and Indigestion.
Claims use since Mar. 1, 1919.

Ser. No. 144,341. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Herbert F. Matthews, New York, N. Y. Filed Mar. 5, 1921.

Haelebrom

Particular description of goods.—Hemoglobin Medical Tablets.
Claims use since Oct. 2, 1920.

Ser. No. 144,624. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) Lindsay Light Company, Chicago, Ill. Filed Mar. 11, 1921.

Lindsay DAYLIGHT

Particular description of goods.—Gas-Mantles.
Claims use since on or about Jan. 1, 1912.

Ser. No. 144,667. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) William Roberts, St. Louis, Mo. Filed Mar. 12, 1921.

Wm Roberts

Is a facsimile of the applicant's signature.
Particular description of goods.—A Preparation for Rheumatism, Kidney Trouble, Catarrh of the Head and Stomach, Asthma, Hay-Fever, Dizziness, Tired Feeling, and Sleepiness in the Hands, Removes Liver-Spots, is an Excellent Blood Medicine and System-Builder, and for All Dyscrasia Diseases.
Claims use since on or about Apr. 1, 1920.

Ser. No. 144,949. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Homer Eugene Varnar, Worcester, Mass. Filed Mar. 18, 1921.

H E V

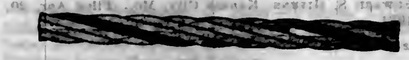
Particular description of goods.—Chemical Carbon-Remover.
Claims use since Oct. 25, 1920.

Ser. No. 144,962. (CLASS 27. HOROLOGICAL INSTRUMENTS.) Cartier, Inc., New York, N. Y. Filed Mar. 19, 1921. Under ten-year proviso.

CARTIER

Particular description of goods.—Watches and Clocks.
Claims use since 1859.

Ser. No. 145,198. (CLASS 7. CORDAGE.) Wickwire Spencer Steel Corporation, Worcester, Mass. Filed Mar. 24, 1921.



Consists of a strand marked with a gray color. No claim is made to the representation of a wire rope apart from the mark shown in the drawing.
Particular description of goods.—Wire Rope.
Claims use since June, 1917.

Ser. No. 145,243. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Texas Star Flour Mills, Galveston, Tex. Filed Mar. 25, 1921.

LA NINFA

Particular description of goods.—Wheat-Flour.
Claims use since 1900.

Ser. No. 145,269. (CLASS 20. LINOLEUM AND OILED CLOTH.) Insulite Chemical Company, Aurora, Ill. Filed Mar. 26, 1921.

INSULITE

Particular description of goods.—Flooring in Sheet Form Composed Mainly of Mastic Material, and Like Mastic Materials for Use in Laying Such Flooring.
Claims use since Dec. 31, 1909.

Ser. No. 145,278. (CLASS 15. OILS AND GREASES.) Massachusetts Oil Refining Company, Braintree, Mass. Filed Mar. 26, 1921.

Maverick Oils

No claim is made to the right to the exclusive use of the word "Oils" except in the setting and relation in which it appears in the drawing.
Particular description of goods.—Lubricating-Oils.
Claims use since Mar. 7, 1921.

Ser. No. 145,436. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) Chemical Sales Company, Philadelphia, Pa. Filed Mar. 30, 1921.

KDN

Particular description of goods.—Chemical Compounds Sold as Jewelers' Cleaners, Metal-Cleaners, and Electroplaters' Cleaners.
Claims use since on or about Oct. 15, 1920.

Ser. No. 145,511. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Hoffman & Hance, Inc., Woodhaven, N. Y. Filed Mar. 31, 1921.

Tick Tock

Particular description of goods.—Olive-Oil, Mayonnaise, Maple-Sugar, Honey, Maple-Syrup, Cane and Maple Syrup, Jams, Jellies, and Peanut-Butter.
Claims use since Mar. 18, 1921.

Ser. No. 145,572. (CLASS 12. CONSTRUCTION MATERIALS.) NATIONAL ASBESTOS MANUFACTURING CO., Jersey City, N. J. Filed Apr. 1, 1921.

AANA

Particular description of goods.—Prepared Roofing.
Claims use since Mar. 10, 1921.

Ser. No. 145,658. (CLASS 2. RECEPTACLES.) OTTO STROEMER, Creighton, Nebr. Filed Apr. 2, 1921.

OSAMA

Particular description of goods.—An Air-Hose Reel.
Claims use since Nov. 1, 1920.

Ser. No. 145,838. (CLASS 11. INKS AND INKING MATERIALS.) J. D. MCCARTHY CO., New York, N. Y. Filed Apr. 7, 1921.

KEEN EDGE

Particular description of goods.—Carbon-Paper.
Claims use since Mar. 1, 1921.

Ser. No. 145,905. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MERCK & CO., New York, N. Y. Filed Apr. 8, 1921.

PYOKTANIN

Consisting of the word "Pyoktanin."
Particular description of goods.—A Medicinal Dye in the Form of Powder, Crystals, Tablets, and Pencils.
Claims use since May 20, 1920.

Ser. No. 146,002. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROYAL COCOA CO., Jersey City, N. J. Filed Apr. 12, 1921.



Dutch Maid

Particular description of goods.—Coffee, Cocoa, and Chocolate.
Claims use since 1909.

Ser. No. 146,431. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD S. GIVENS, Kansas City, Mo. Filed Apr. 20, 1921.

Clear Tone

Particular description of goods.—Toilet Preparation—Namely, Face-Lotion.
Claims use since Jan. 1, 1920.

Ser. No. 146,467. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE STEWART MANUFACTURING CORPORATION, Chicago, Ill. Filed Apr. 20, 1921.

Stewart

Is a facsimile of the signature of John K. Stewart, the founder and first president of this concern.
Particular description of goods.—Vehicle-Window Frames.
Claims use since about Jan. 1, 1921.

Ser. No. 146,472. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WINSHIP, BOTT & CO., Wakefield, Mass., and New York, N. Y. Filed Apr. 20, 1921. Under ten-year proviso.

Mérode

Particular description of goods.—Woolens, Cottons, Silks, Fibers, and Mixtures, Flannels, Linens, Muslins, Lisle, Mercerized Cotton, Cotton and Wool Merino in the Piece, and Veilings.
Claims use since Jan. 1, 1895.

Ser. No. 146,474. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WINSHIP, BOTT & CO., Wakefield, Mass., and New York, N. Y. Filed Apr. 20, 1921. Under ten-year proviso.

Harvard Mills

Particular description of goods.—Woolens, Cottons, Silks, Fibers, and Mixtures, Flannels, Linens, Muslins, Lisle, Mercerized Cotton, Cotton and Wool Merino and Mixtures in the Piece, and Veilings.
Claims use since 1895.

Ser. No. 146,480. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE COTAROID COMPANY, New York, N. Y. Filed Apr. 21, 1921.

Cotaroid FABRICS

No claim being made to the word "Fabrics" apart from the mark shown on the drawing.
Particular description of goods.—Artificial Leather.
Claims use since Oct. 1, 1920.

Ser. No. 146,487. (CLASS 27. HOROLOGICAL INSTRUMENTS.) INGERSOLL TRADING CORPORATION, New York, N. Y. Filed Apr. 21, 1921.

PETOCRONO

Particular description of goods.—Clocks.
Claims use since Apr. 10, 1921.

Ser. No. 146,717. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE U. LIPSCHULTZ, Chicago, Ill. Filed Apr. 25, 1921.



No claim is made to the words "Purity—Service—Reliance" apart from the mark shown.
Particular description of goods.—Vanilla Flavor, Terpeneless Extract of Lemon, Pure Vanilla Extract, and Concentrated Extract of Lemon.
Claims use since Feb. 15, 1921.

Ser. No. 146,773. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) LIBERTY MIRROR WORKS, Pittsburgh, Pa. Filed Apr. 26, 1921.

LIBERTY

Particular description of goods.—Rear-View Mirrors.
Claims use since Apr. 4, 1921.

Ser. No. 146,878. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) EUREKA BATTERY COMPANY, Chicago, Ill. Filed Apr. 28, 1921.

Eureka

Particular description of goods.—Storage Batteries.
Claims use since Apr. 11, 1919.

Ser. No. 146,977. (CLASS 2. RECEPTACLES.) MAURICE M. MUMMERT, Goshen, Ind. Filed Apr. 29, 1921.

Burnall

Particular description of goods.—Containers for the Dust, Refuse, and Dirt Taken from Vacuum-Cleaners.
Claims use since Jan. 15, 1921.

Ser. No. 147,056. (CLASS 38. PRINTS AND PUBLICATIONS.) THE TRIBUNE COMPANY, Chicago, Ill. Filed Apr. 30, 1921.

Mae Tinee

"Mae Tinee."
Particular description of goods.—A Row de Plume for Newspaper Articles.
Claims use since Oct. 18, 1920.

Ser. No. 147,057. (CLASS 38. PRINTS AND PUBLICATIONS.) THE TRIBUNE COMPANY, Chicago, Ill. Filed Apr. 30, 1921.

A LINE O' TYPE OR TWO

"A Line O' Type or Two."
Particular description of goods.—A Newspaper Column.
Claims use since Jan. 21, 1901.

Ser. No. 147,058. (CLASS 38. PRINTS AND PUBLICATIONS.) THE TRIBUNE COMPANY, Chicago, Ill. Filed Apr. 30, 1921.

KERNEL COOTIE

"Kernel Cootie."
Particular description of goods.—A Series of Cartoons.
Claims use since May 22, 1919.

Ser. No. 147,059. (CLASS 38. PRINTS AND PUBLICATIONS.) THE TRIBUNE COMPANY, Chicago, Ill. Filed Apr. 30, 1921.

WINNIE WINKLE

"Winnie Winkle."
Particular description of goods.—A Series of Cartoons.
Claims use since Sept. 20, 1920.

Ser. No. 147,060. (CLASS 38. PRINTS AND PUBLICATIONS.) THE TRIBUNE COMPANY, Chicago, Ill. Filed Apr. 30, 1921.

Clotilde

"Clotilde."
Particular description of goods.—A Row de Plume for Newspaper Articles.
Claims use since Jan. 12, 1919.

Ser. No. 147,061. (CLASS 38. PRINTS AND PUBLICATIONS.) THE TRIBUNE COMPANY, Chicago, Ill. Filed Apr. 30, 1921.

THE GUMPS

Particular description of goods.—A Series of Cartoons.
Claims use since Feb. 11, 1917.

Ser. No. 147,062. (CLASS 38. PRINTS AND PUBLICATIONS.) THE TRIBUNE COMPANY, Chicago, Ill. Filed Apr. 30, 1921.

HAROLD TEEN

Particular description of goods.—A Series of Cartoons.
Claims use since May 5, 1919.

Ser. No. 147,063. (CLASS 38. PRINTS AND PUBLICATIONS.) THE TRIBUNE COMPANY, Chicago, Ill. Filed Apr. 30, 1921.

GASOLINE ALLEY

Particular description of goods.—A Series of Cartoons.
Claims use since Aug. 24, 1919.

Ser. No. 147,064. (CLASS 38. PRINTS AND PUBLICATIONS.) THE TRIBUNE COMPANY, Chicago, Ill. Filed Apr. 30, 1921.

How to Keep Well

"How to Keep Well."
Particular description of goods.—A Newspaper Column.
Claims use since Sept. 11, 1911.

Ser. No. 147,067. (CLASS 39. CLOTHING.) VALCO MFG. CO. INC., New York, N. Y. Filed Apr. 30, 1921.

Valco

Particular description of goods.—Sleepers—viz., Pajamas in One and Two Piece Garments and Night-Robes.
Claims use since Apr. 1, 1921.

Ser. No. 147,135. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEWIS THORNTON, Hannis City, Kans. Filed May 2, 1921.

Thornton's

"Thornton's" printed in facsimile of the handwriting of the applicant.
Particular description of goods.—A Medicine for Rheumatism.
Claims use since on or about Apr. 15, 1921.

Ser. No. 147,171. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NUFORAL LABORATORIES, INC., New York, N. Y. Filed May 3, 1921.

SuSaLvo

Particular description of goods.—A Preparation to be Used in the Treatment of Hog-Cholera.
Claims use since Apr. 8, 1921.

Ser. No. 147,185. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRY THOMAS ALFRED BUCKER, London, England. Filed May 4, 1921.

"DIMOL"

Particular description of goods.—An Intestinal Disinfectant.
Claims use since Jan. 14, 1921.

Ser. No. 147,296. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN R. KIRKPATRICK, Jr., Atlanta, Ga. Filed May 6, 1921.

Votan

Particular description of goods.—A Preparation for Use Internally in the Treatment of Headaches, Colds, Neuralgia, Lumbago, Rheumatism, Sciatica, Toothache, Earache, and Nervousness.
Claims use since Apr. 15, 1921.

Ser. No. 147,434. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DAVID LEVETT, Philadelphia, Pa. Filed May 9, 1921.

Daylite BATTERIES

The word "Batteries" apart from the mark shown on the drawing is hereby disclaimed as a part of the trade-mark.
Particular description of goods.—Electric Storage Batteries.
Claims use since Nov. 6, 1920.

Ser. No. 147,455. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OREGON GROWERS COOPERATIVE ASSN., Salem, Oreg. Filed May 9, 1921.

Truwest

Particular description of goods.—Dried Fruits, Dried Berries, Dried Vegetables, Canned Fruits, Canned Berries, Canned Vegetables, Fresh Fruits, Fresh Berries, Fresh Vegetables, Fruit Jams, Fruit Jellies, Fruit Preserves, Catsup, Vinegar, Mince-Meat, Candy, Nuts in Their Natural State, Canned Fish, Ice-Cream; Dairy Products—Namely, Butter and Cheese; Wheat-Flour, Breakfast Cereals, Spices, Coffee, and Tea.
Claims use since July 9, 1920.

Ser. No. 147,456. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PACIFIC COAST BISCUIT CO., Seattle, Wash. Filed May 9, 1921.

A PCB Product

The word "Product" does not form a part of the registration sought apart from the mark shown on the drawing.
Particular description of goods.—Cookies and Crackers of All Kinds.
Claims use since Jan. 20, 1921.

Ser. No. 147,484. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VATCHER CHEMICAL CORPORATION, Birmingham, Ala. Filed May 9, 1921.



No claim is made to the words "A Road to Quick Recovery" apart from the mark shown in the drawing.

Particular description of goods.—A Medicinal Preparation for Poultry for the Treatment of Cholera, White Diarrhea, Dysentery, Going Light, Limberneck, Bronchitis, and Rheumatism.

Claims use since Feb. 28, 1921.

Ser. No. 147,485. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VATCHER CHEMICAL CORPORATION, Birmingham, Ala. Filed May 9, 1921.

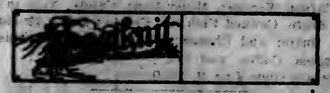
RU-CHOL

No claim is made for the word "Tablet" apart from the mark shown in the drawing.

Particular description of goods.—Medicinal Preparation for the Treatment of Diseases of Poultry Including White Diarrhea, Cholera, Roup, Canker, Colds, and Limberneck.

Claims use since Feb. 28, 1921.

Ser. No. 147,491. (CLASS 39. CLOTHING.) ARMIN H. WITTENBERG, Los Angeles, Calif. Filed May 9, 1921.



Particular description of goods.—Silk-Lisle and Cotton Hosiery for Men, Women, Children, and Infants.

Claims use since February, 1915.

Ser. No. 147,523. (CLASS 38. PRINTS AND PUBLICATIONS.) LORD PRINTING COMPANY, Philadelphia, Pa. Filed May 10, 1921.

NEW JERSEY
HOTEL PILOT

No claim being made to any of the words appearing on the drawing except the words "New Jersey Hotel Pilot."

Particular description of goods.—A Monthly Magazine.

Claims use since Oct. 1, 1920.

Ser. No. 147,530. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHAS. ROSALLS COMPANY, San Francisco, Calif. Filed May 10, 1921.

BONETE

Consisting of the word "Bonete."

Particular description of goods.—General Tonic.

Claims use since November, 1920.

Ser. No. 147,573. (CLASS 39. CLOTHING.) THE BOSSERT WEBB COMPANY, Cincinnati, Ohio. Filed May 11, 1921.

COBBIE

Particular description of goods.—Shoes Made of Leather and Also of Combinations of Leather and Fabric.

Claims use since Feb. 20, 1921.

Ser. No. 147,594. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE ALUMINUM COOKING UTENSIL CO., New Kensington, Pa. Filed May 12, 1921.

"Wear-Ever"

Particular description of goods.—Dry Paint-Pigments.

Claims use since Apr. 1, 1921.

Ser. No. 147,597. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COOKSON & COMPANY, LIMITED, Newcastle-upon-Tyne, England. Filed May 12, 1921.

TIMONOX

Particular description of goods.—Oxid of Antimony and Pigments Made Therefrom Having a Combination of Uses.

Claims use since June 18, 1919.

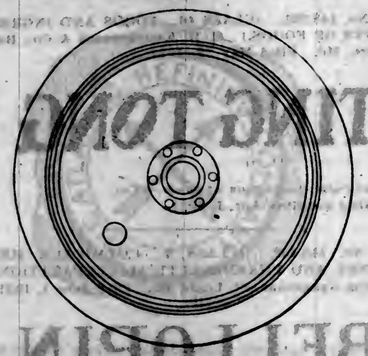
Ser. No. 147,604. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNITED CANDY & PASTRY COMPANY, Washington, D. C. Filed May 13, 1921.



Particular description of goods.—Candy, Cake, Bread, and Pastry.

Claims use since Mar. 15, 1921.

Ser. No. 147,709. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE DAYTON AUTOMOTIVE WHEEL COMPANY, Dayton, Ohio. Filed May 16, 1921.



No claim is made to the exclusive representation of tire, rim, hub-cap, or disk wheel apart from the mark shown in the drawing. The trade-mark comprises a disk on the face of a disk wheel near the periphery.

Particular description of goods.—Wheels.

Claims use since Apr. 22, 1920.

Ser. No. 147,842. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed May 17, 1921.



The drawing is lined to represent a red star and band and a dark field indicated as green. No claim is made to the right of the exclusive use of the word "Electrodes" apart from the rest of the mark.

Particular description of goods.—Electrodes for Electric Furnace and Electrolyte Operations.

Claims use since Mar. 8, 1921.

Ser. No. 147,943. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FANNIE STOVER, Whiting, Ind. Filed May 19, 1921.

STOVERINE

Particular description of goods.—A Furniture and Metal Cleaning Preparation.

Claims use since July 1, 1920.

Ser. No. 147,982. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OMAHA ALFALFA MILLING COMPANY, Omha, Nebr. Filed May 20, 1921.

WHITE ROCK

Particular description of goods.—Poultry Feed.

Claims use since Apr. 29, 1921.

Ser. No. 148,056. (CLASS 2. RECEPTACLES.) THE CREAMERY PACKAGE MFG. COMPANY, Chicago, Ill. Filed May 23, 1921.

GREEN MOUNTAIN

Particular description of goods.—Silos.

Claims use since Aug. 20, 1900.

Ser. No. 148,070. (CLASS 37. PAPER AND STATIONERY.) HOSONUMA & CO., INC., Nihonbashiku, Tokyo, Japan. Filed May 23, 1921.

S.S.S.

Particular description of goods.—Paper and Stationery.

Claims use since Mar. 26, 1915.

Ser. No. 148,142. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Holland-American Waffle Co., Grand Rapids, Mich. Filed May 24, 1921.

U-NO
DUTCH TWINS

Particular description of goods.—Bakery Products—Namely, Wafers.
Claims use since Nov. 1, 1920.

Ser. No. 148,151. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) The "Kelly Busy Corner" Company, Middletown, Conn. Filed May 24, 1921.

MAYSAL

Particular description of goods.—Mayonnaise Dressing.
Claims use since Apr. 20, 1921.

Ser. No. 148,333. (CLASS 11. INKS AND INKING MATERIALS.) Egon Hassinger, Barcelona, Spain. Filed May 27, 1921.

·INCA·

Particular description of goods.—Carbon-Paper.
Claims use since February, 1913.

Ser. No. 148,338. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Morton Sundour Fabrics, Ltd., Denton Mill, Carlisle, England. Filed May 27, 1921.



No claim is made to the words "Unfadable," "Regd.," and "Fabrics" apart from the other features of the mark.
Particular description of goods.—Cotton Piece Goods.
Claims use since 1916.

Ser. No. 148,369. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Arcona Corner, Erie, Pa. Filed May 28, 1921.

C.A.C. FAVORITE

No claim being made to the descriptive word "Favorite" apart from the other features of the mark.
Particular description of goods.—Coffee.
Claims use since May 17, 1921.

Ser. No. 148,384. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Gorton Chocolate Company, Inc., Corning, N. Y. Filed May 28, 1921.

CHERRY FLIP

Particular description of goods.—Candy.
Claims use since Jan. 1, 1921.

Ser. No. 148,391. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. H. Kronenberger & Co., Baltimore, Md. Filed May 28, 1921.

TING TONG

Particular description of goods.—Tea.
Claims use since Apr. 1, 1921.

Ser. No. 148,492. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Louis Greengard, St. Louis, Mo. Filed June 1, 1921.

BELLOPIN

Particular description of goods.—A Medicinal Preparation for Colds, La Grippe, Headaches, and Influenza.
Claims use since Nov. 1, 1919.

Ser. No. 148,545. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. H. Michand, Beaverton, Mich. Filed June 2, 1921.



No claim is made to the words "The Best" appearing in the drawing apart from the mark as shown.
Particular description of goods.—Veterinary Products—Namely, Healing-Ointment, Granadon Hoof-Ointment, Eye-Lotion; Medicine for Treatment of Spavin, Ringbone, Splints, Shoe-Boils, Capped Hock, Calk-Wounds, and Hard Fibrous Tumors; Veterinary Liniment, Veterinary Blister, Colic Remedy, Cough and Distemper Remedy, Healing-Powder, Tonic, and Conditioner.
Claims use since Feb. 3, 1921.

Ser. No. 148,549. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Daniel De Leary, Detroit, Mich. Filed June 4, 1921.



DIAMOND

Particular description of goods.—A Medical Compound for the Treatment of Consumption.
Claims use since Feb. 10, 1921.

Ser. No. 148,620. (CLASS 12. CONSTRUCTION MATERIALS.) The Atlantic Refining Company, Philadelphia, Pa. Filed June 6, 1921.



The crossed arrows and the outer irregular border are in red.
Particular description of goods.—Road and Roofing Oils and Petroleum Asphalts and Pitches.
Claims use since May 25, 1917.

Ser. No. 148,789. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Edward D. Bradshaw, New York, N. Y. Filed June 7, 1921.

TIP TOP

Particular description of goods.—Salted Popcorn and Popcorn in Its Natural State.
Claims use since Feb. 25, 1907.

Ser. No. 148,806. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. L. Mackey, Charleston, Tenn. Filed June 7, 1921.

SALAFIN

Particular description of goods.—Medicine for Use in the Treatment of Headaches, Rheumatic and Neuralgic Pains.
Claims use since Mar. 31, 1921.

Ser. No. 148,813. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Oriental Products Importing Co., Syracuse, N. Y. Filed June 7, 1921.

CAMPANA

Printed in yellow.
Particular description of goods.—Olive Oil.
Claims use since Jan. 15, 1921.

Ser. No. 148,853. (CLASS 32. FURNITURE AND UPHOLSTERY.) Quality Mattress Company, Rochester, N. Y. Filed June 8, 1921.

Q

Particular description of goods.—Metal Beds, Cribs, Couches, and Springs and Mattresses Therefor.
Claims use since Oct. 1, 1918.

Ser. No. 148,864. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Associated Fruit Co., Chicago, Ill. Filed June 9, 1921.

ASSOCIATED

Particular description of goods.—Fresh Grapes.
Claims use since June 1, 1920.

Ser. No. 148,872. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARMINE CANDY COMPANY, Oakland, Calif. Filed June 9, 1921.

BAFFLE BAR

No claim is made to the word "Bar" apart from the mark shown on the drawing.

Particular description of goods.—Chocolate-Coated Candy.

Claims use since Oct. 28, 1920.

Ser. No. 148,879. (CLASS 38. PRINTS AND PUBLICATIONS.) GROSSET & DUNLAP, INC., New York, N. Y. Filed June 9, 1921.

LITTLE JACK RABBIT BOOKS

No claim being made to the word "books" apart from the mark as shown.

Particular description of goods.—A Series of Books Published Periodically.

Claims use since Apr. 4, 1921.

Ser. No. 148,880. (CLASS 38. PRINTS AND PUBLICATIONS.) GROSSET & DUNLAP, INC., New York, N. Y. Filed June 9, 1921.

SLUMBER-TOWN TALES

Particular description of goods.—A Series of Books Published Periodically.

Claims use since Apr. 4, 1921.

Ser. No. 148,968. (CLASS 2. RECEPTACLES.) W. W. BEVAN COMPANY, Everett, Mass. Filed June 11, 1921.



No claim is made to the phrase "Bake in the Cup" apart from the mark shown in the drawing.

Particular description of goods.—Paper Cups.

Claims use since July 1, 1918.

Ser. No. 149,024. (CLASS 11. INKS AND INKING MATERIALS.) PEERLESS CARBON & RIBBON MFG. CO., INC., New York, N. Y. Filed June 11, 1921.

SOLO

Consisting of the word "Solo."

Particular description of goods.—Stamp-Pads.

Claims use since Nov. 10, 1920.

Ser. No. 149,050. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) JAMES LEES AND SONS COMPANY, Bridgeport, Pa. Filed June 8, 1921.

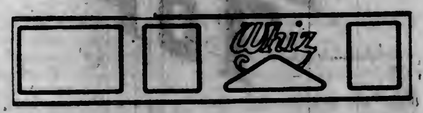
MINERVA

No claim is made to the representation of the ball of yarn apart from the word "Minerva."

Particular description of goods.—Embroidery-Work, Knitting-Work, Crocheting-Work, and Similar Fancy Work and Art-Needlework, Completed, Partly Completed, Stamped, Cut, or Otherwise Prepared for Completion by the Customer, Used as or in Connection with Suitable Foundation Materials for Personal Apparel, Outfits for Children and Infants, Household and Fancy Linens, and for So-Called French Novelties and other Art-Needlework, Art-Needlework-Package Outfits, Ornamental Drapery and Upholstery Trimmings, Ornamental and Decorative Cords, with or without Metallic Threads; Fringes, Tassels, and Loops, (as Used for Pillows, Curtains, Portières, Bath-Robe Girdle Sets, Laundry-Bags, Belts;) Pompons, Plush Balls, Drops, Pendants, and Chenille, (Such as Used for Trimming Pillows, Portières, Curtains, Dresses, Fancy Boxes, Bags, Lamp-Shades, Hats, Neckwear, Table-Covers, and Fancy Goods Generally;) Artificial-Flower Trimming, Embroidery Initials, Tapes, Edgings, Braids, Insertions, Ruffles, Medallions; Rings of Metal, Bone, or Glass for Fancy Work; Beads and Bells for Trimming Purposes; Also Notions and Art-Needlework Implements, as Follows: Crochet-Hooks and Knitting-Needles of Metal, Bone, Celluloid, or Wood; Bodkins and Stilettos for Piercing Eyelets in Material for Embroidery Purposes, of Bone or Metal, with or without Wooden Handles; Netting, Embroidering, and Hand Sewing-Needles; Shuttles for Tatting, of Celluloid, Bone, or Metal; Maltese Pins, (a Fork-Shaped Article of Metal for Manipulating Thread into So-Called Maltese-Lace Designs;) Holders for Balls of Crochet Cotton or Wool, Hand-Weaving Frames, Embroidery-Hoops, Embroidery-Hoop Holders.

Claims use since Apr. 2, 1921.

Ser. No. 149,128. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE R. M. HOLLINGSHEAD CO., Camden, N. J. Filed June 14, 1921.



Particular description of goods.—Auto-Body Polish, Polishing-Wax, Liquid Tire-Cover, Aluminum-Bronze, Rapid-Repair Enamel, Tire-Enamel, Engine-Enamel, Mechanics' Blue Paste, Screen-Paint, Stovepipe-Enamel, and Gas-Range Enamels, (Liquid Tire-Cover, Rapid-Repair Enamel, Mechanics' Blue Paste, Stovepipe-Enamel, and Gas-Range Enamels Being Paint Enamels.)

Claims use since Apr. 1, 1920.

Ser. No. 149,196. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) M. & S. Co., New York, N. Y. Filed June 15, 1921.

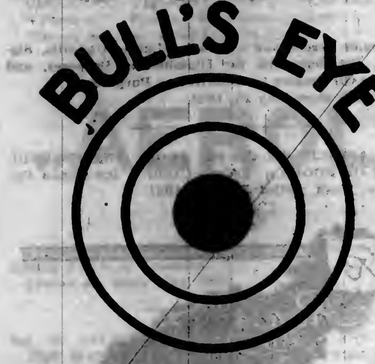
M AND S

Showing conventional lining for color, (gold.)

Particular description of goods.—A Massage-Cream for Softening and Beautifying the Skin.

Claims use since November, 1920.

Ser. No. 149,321. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GEORGE T. DOCHTERMANN, Passaic, N. J. Filed June 18, 1921.



Particular description of goods.—Spark-Plugs.

Claims use since Apr. 1, 1921.

Ser. No. 149,381. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BREINIG BROTHERS, INC., Hoboken, N. J. Filed June 20, 1921.



No claim is made to the exclusive use of the words "Paints and Varnishes" apart from the mark substantially shown.

Particular description of goods.—Prepared Paints, Graphite Paint, Metal-Protective Paint, Flat Paints, Mill-White Paint, Painters' Primers, Painters' Stains, Stone and Colors in Oil, Painters' Enamels, Stovepipe-Enamel Paint, Blackboard-Paint, Automobile Top and Seat Dressing of a Paint and Varnish Nature, Varnish-Stains, Varnishes, Painters' Fillers, Prepared Wax, Painters' Enamel Undercoat, Oil Finishes, Asphaltum Varnishes, Painters' Driers, Bronzing Liquid, Shellac Substitutes, Paint and Varnish Remover, and Prepared Shellac.

Claims use since about Mar. 1, 1921.

Ser. No. 149,416. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) NOYES BROS. & CUTLER, INCORPORATED, St. Paul, Minn. Filed June 20, 1921.

LESSOAP

Particular description of goods.—A Cleaning Preparation in Powdered Form Having Water-Softening Properties.

Claims use since June 4, 1921.

Ser. No. 149,417. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ROBERT G. NIEMAN, Cleveland, Ohio. Filed June 20, 1921.



No claim being made to the words "Genuine Service" nor to the representation of a wheel apart from the mark as shown in drawing.

Particular description of goods.—Vehicle-Wheels and Parts Thereof—Namely, Rims, Felly-Bands, Felly-Bolts, and Rim Clamps and Locks.

Claims use since May 1, 1921.

Ser. No. 149,431. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) UNITED STATES TIRE COMPANY, New York, N. Y. Filed June 20, 1921.

TRAXION

The trade mark shown in the accompanying drawing consists of the letters "TRAXION," the middle letter "X" being made of considerably greater size than the other letters and provided with lines extending from each of its limbs, thereby providing a border on the left for the letters "TRA," and on the right for the letters "ION."

Particular description of goods.—Rubber Tires.

Claims use since Sept. 21, 1920.

Ser. No. 149,443. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RICHARD FISH, Brooklyn, N. Y. Filed June 21, 1921.

Dr. James P. Campbell's

James P. Campbell, M. D.

Particular description of goods.—Arsenic Complexion-Waters.
Claims use since July, 1910.

Ser. No. 149,505. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FARMERS' COMMISSION HOUSE, INC., New York, N. Y. Filed June 22, 1921.



No claim being made to the exclusive use of the representation of a duck and the words "Long Island Ducks" apart from the mark as shown in the drawing.
Particular description of goods.—Live and Dressed Ducks.
Claims use since June 14, 1921.

Ser. No. 149,524. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. E. RILEY & COMPANY, Bristow, Okla. Filed June 22, 1921.

Riley's—

The word "Riley's" appearing in the drawing being characteristic of the handwriting of a member of the firm.
Particular description of goods.—Hair-Restorer.
Claims use since Sept. 1, 1920.

Ser. No. 149,560. (CLASS 27. HOROLOGICAL INSTRUMENTS.) LOUIS F. SACKSERMAN, Baltimore, Md. Filed June 23, 1921.

EMCO

Particular description of goods.—Watches and Clocks.
Claims use since January, 1918.

Ser. No. 149,642. (CLASS 15. OILS AND GREASES.) THE INTERNATIONAL LUBRICATING CO., Cincinnati, Ohio. Filed June 25, 1921.

ILCO

Particular description of goods.—Lubricating-Oils, Signal-Oils, Petroleum-Oils for Illuminating Purposes, and Petroleum-Oil Greases for Lubricating Purposes.
Claims use since May 23, 1921.

Ser. No. 149,652. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROGERS CANDY & ICE CREAM CO., Seattle, Wash. Filed June 25, 1921.



The surname "Rogers" and the descriptive word "Chocolates" are hereby disclaimed apart from the other features of the mark shown on the drawing.
Particular description of goods.—Candies.
Claims use since July 15, 1920.

Ser. No. 149,752. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDITH E. HASKIN, Canandaigua, N. Y. Filed June 28, 1921.

SILVERTONE

Particular description of goods.—Ice-Cream.
Claims use since June 11, 1921.

Ser. No. 149,703. (CLASS 11. INKS AND INKING MATERIALS.) MUN-KEE PRODUCTS CORPORATION, Los Angeles, Calif. Filed June 28, 1921.

Mun Kee

Particular description of goods.—Stamp-Pads for Inking Rubber Stamps and the Like.
Claims use since May 2, 1921.

Ser. No. 149,816. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) "PERSOLIN" FABRIKATIONSGESELLSCHAFT M. B. H., Vienna, Austria. Filed June 29, 1921.

"AEROL"

Particular description of goods.—Disinfectants, Disinfecting Fluids or Essences.
Claims use since May, 1921.

Ser. No. 149,834. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) C. A. WOOLSEY PAINT & COLOR COMPANY, Jersey City, N. J. Filed June 29, 1921 Under ten-year proviso.

STANDARD MIXED PAINT QUALITY GUARANTEED

C.A. WOOLSEY PAINT & COLOR CO.
Jersey City, New Jersey.

Particular description of goods.—Dry, Ready-Mixed, and Paste Paints, Dry Colors and Colors Ground in Oil, Paint-Pigments, and Varnishes.
Claims use since March, 1876.

Ser. No. 149,835. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) C. A. WOOLSEY PAINT & COLOR COMPANY, Jersey City, N. J. Filed June 29, 1921.

CORONA

Particular description of goods.—Dry, Ready-Mixed, and Paste Paints, Dry Colors and Colors Ground in Oil, Paint-Pigments, and Varnishes.
Claims use since July, 1917.

Ser. No. 149,836. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) C. A. WOOLSEY PAINT & COLOR COMPANY, Jersey City, N. J. Filed June 29, 1921. Under ten-year proviso.



Particular description of goods.—Dry, Ready-Mixed, and Paste Paints, Dry Colors and Colors Ground in Oil, Paint-Pigments, and Varnishes.
Claims use since June, 1891.

Ser. No. 149,837. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) C. A. WOOLSEY PAINT & COLOR COMPANY, Jersey City, N. J. Filed June 29, 1921. Under ten-year proviso.

PEERLESS MIXED PAINT

Particular description of goods.—Dry, Ready Mixed, and Paste Paints; Dry Colors and Colors Ground in Oil, Paint-Pigments, and Varnishes.
Claims use since June, 1891.

Ser. No. 149,863. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) G. Sidenberg & Co., New York, N. Y. Filed June 30, 1921.

Maytime

Particular description of goods.—Flounces in the Piece, Embroidered Bandings in the Piece, and Skirtings in the Piece.
Claims use since 1917.

Ser. No. 149,864. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) G. Sidenberg & Co., New York, N. Y. Filed June 30, 1921.

Maytime

Particular description of goods.—Flounces in the Piece, Embroidered Bandings in the Piece, and Skirtings in the Piece.
Claims use since 1917.

Ser. No. 149,914. (CLASS 27. HOROLOGICAL INSTRUMENTS.) The Luminite Company, New York, N. Y. Filed July 1, 1921.

LUMINITE

Consisting of the coined word "Luminite."
Particular description of goods.—Timepieces.
Claims use since Mar. 1, 1921.

Ser. No. 149,916. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Max Levinstein, Brooklyn, N. Y. Filed July 1, 1921.

ALBANORA

Particular description of goods.—Beauty-Creams.
Claims use since June 14, 1921.

Ser. No. 149,927. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) Orange Crush Company, Chicago, Ill. Filed July 1, 1921.

—like oranges? drink
ORANGE-CRUSH

No claim being made to the words "Like Oranges? Drink Orange."
Particular description of goods.—Non-Alcoholic, Malt-less Beverage Sold as Soft Drinks and Syrups for Making the Same.
Claims use since Apr. 15, 1921.

Ser. No. 149,940. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) V. Vivaudou, Inc., New York, N. Y. Filed July 1, 1921.

Baby's Need

Particular description of goods.—Face-Powders, Talcum Powders, and Toilet Powders.
Claims use since June 22, 1921.

Ser. No. 149,944. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) John J. Wiley, Dayton, Ohio. Filed July 1, 1921.

VAL-PAR

Particular description of goods.—An Indigestion and Stomach Medicine.
Claims use since on or about Jan. 1, 1921.

Ser. No. 149,947. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) The Achilles Rubber and Tire Company, Inc., Binghamton, N. Y. Filed July 2, 1921.

TITANIC

Particular description of goods.—Rubber-Tire Casings and Tubes.
Claims use since Mar. 1, 1921.

Ser. No. 149,960. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Harry H. Wilder, San Diego, Calif. Filed July 2, 1921.

AZTHMK

Particular description of goods.—A Medicine to be Used in the Treatment of Asthma, Hay-Fever, Catarrh, and Bronchitis.
Claims use since June 1, 1902.

Ser. No. 150,007. (CLASS 12. CONSTRUCTION MATERIALS.) Dorite Manufacturing Company, New York, N. Y. Filed July 5, 1921.

DORITE

Particular description of goods.—Stucco and Composition Flooring.
Claims use since about June 1, 1921.

Ser. No. 150,014. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Pauline H. Jackson, Birmingham, Ala. Filed July 5, 1921.

OUTCLIPSE

Particular description of goods.—Hair-Toner.
Claims use since May 27, 1921.

Ser. No. 150,018. (CLASS 32. FURNITURE AND UPHOLSTERY.) McDougall Company, Frankfort, Ind. Filed July 5, 1921.

Domestic Sciences

Particular description of goods.—Kitchen-Cabinets.
Claims use since May 1, 1921.

Ser. No. 150,020. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) John C. Milligan, Louisville, Ky. Filed July 5, 1921.

EUREKA

Particular description of goods.—A Compound for Treating Corns, Callouses, Warts, and Bunions.
Claims use since 1902.

Ser. No. 150,021. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) Milwaukee-Waukesha Brewing Company, Waukesha, Wis. Filed July 5, 1921.

FOX HEAD

Particular description of goods.—Ginger-Ale, Root-Beer, Mineral Water, and Soda-Water.
Claims use since Dec. 1, 1894.

Ser. No. 150,080. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Emile P. Plançon, Brooklyn, N. Y. Filed July 6, 1921.

VAPOROINT PLANCON

Consisting of the words "Vaporoint Plançon."
Particular description of goods.—An Ointment for the Treatment of Cuts, Bruises, Wounds, Old Running Sores, Leg-Ulcers, Boils, Sore Breasts, and Chapped Hands.
Claims use since June 27, 1921.

Ser. No. 150,104. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Leon Gawurin, New York, N. Y. Filed July 7, 1921.

GUACO

Particular description of goods.—A Preparation Used Internally for Coughs, Colds, and Headaches.
Claims use since July 1, 1911.

Ser. No. 150,109. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JULIUS KALISER, Inc., New York, N. Y. Filed July 7, 1921.

KILINSEKT

Particular description of goods.—A Powder Used as an Insect-Destroyer.
Claims use since Apr. 10, 1921.

Ser. No. 150,125. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) YORK LABORATORIES COMPANY, York, Pa. Filed July 7, 1921.

MASSET SAN-RAMA

Particular description of goods.—A Medical Compound for the Treatment of Venereal Diseases.
Claims use since June 7, 1921.

Ser. No. 150,156. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MABLE ROWE, Detroit, Mich. Filed July 8, 1921.



Particular description of goods.—Hair-Tonic.
Claims use since Apr. 20, 1921.

Ser. No. 150,185. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CANTRELL & COCHRANE, LIMITED, Dublin, Ireland. Filed July 9, 1921. Under ten-year proviso.

CANTRELL & COCHRANE

Consists of the words "Cantrell & Cochrane."
Particular description of goods.—Ginger-Ale, Ginger-Beer, Sarsaparilla, and Bottled Soda-Water.
Claims use since about 1868.

Ser. No. 150,222. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARMSTRONG CHEMICAL COMPANY, Washington, D. C. Filed July 11, 1921.

"WIL-GRO"

Particular description of goods.—Hair-Restorative.
Claims use since July 1, 1921.

Ser. No. 150,232. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH H. BISHOP, Baltimore, Md. Filed July 11, 1921.



No claim being made to the words "Sage Sulphur and Tar Compound" apart from the mark shown.
Particular description of goods.—Hair-Tonic.
Claims use since July 7, 1921.

Ser. No. 150,235. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHERAMY, Inc., New York, N. Y. Filed July 11, 1921.

COR D'OR

Particular description of goods.—Perfumes, Satchets, Talcum Powder, Face-Powder, Cold-Cream, Rouge, Brilliantine, and Toilet Water.
Claims use since June 11, 1921.

Ser. No. 150,216. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHERAMY, Inc., New York, N. Y. Filed July 11, 1921.

GIRLY GIRL

Particular description of goods.—Perfumes, Sachets, Talcum Powder, Face-Powder, Cold-Cream, Rouge, Brilliantine, and Toilet Water.
Claims use since June 11, 1921.

Ser. No. 150,237. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHERAMY, Inc., New York, N. Y. Filed July 11, 1921.

MYO-SAN

Particular description of goods.—Perfumes, Sachets, Talcum Powder, Face-Powder, Cold-Cream, Rouge, Brilliantine, and Toilet Water.
Claims use since June 11, 1921.

Ser. No. 150,218. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHERAMY, Inc., New York, N. Y. Filed July 11, 1921.

LOV-LOR

Particular description of goods.—Perfumes, Sachets, Talcum Powder, Face-Powder, Cold-Cream, Rouge, Brilliantine, and Toilet Water.
Claims use since June 11, 1921.

Ser. No. 150,220. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHERAMY, Inc., New York, N. Y. Filed July 11, 1921.

CADORE

Particular description of goods.—Perfumes, Sachets, Talcum Powder, Face-Powder, Cold-Cream, Rouge, Brilliantine, and Toilet Water.
Claims use since June 11, 1921.

Ser. No. 150,232. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) LEWIS GRAFFLIN, St. Louis, Mo. Filed July 11, 1921.

FIBRERITE

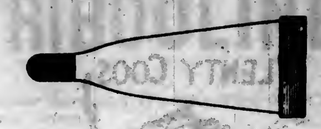
Particular description of goods.—Absorbent Shredded Wood-Fillers for Fibrous Sheets and other Forms Composed of Mechanical Fibers of Pine and/or other Woods and Containing Bark.
Claims use since June 29, 1921.

Ser. No. 150,233. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) LEWIS GRAFFLIN, St. Louis, Mo. Filed July 11, 1921.

TESTITE

Particular description of goods.—Strengthening or Reinforcing Shredded Wood-Fillers for Fibrous Sheets and other Forms Composed of the Mechanical Fibers of Pine and/or other Woods and Not Containing Bark.
Claims use since June 29, 1921.

Ser. No. 150,253. (CLASS 2. RECEPTACLES.) H. PLANTEN & SON, Inc., Brooklyn, N. Y. Filed July 11, 1921.



Trade-mark consisting of artificially and distinctively coloring the cap of tubular containers black, as illustrated in the accompanying drawing, the showing of the tubular container in said drawing being solely for purposes of illustration, indicating the black colored cap referred to, and no claim being made to the picture of the container.
Particular description of goods.—Tubular Containers for Medicinal Ointments.
Claims use since June 1, 1921.

Ser. No. 150,256. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SANITAS COMPANY, Inc., Jersey City, N. J., and Brooklyn, N. Y. Filed July 11, 1921.

MEMBREX

Particular description of goods.—A Preparation Consisting of an Antiseptic Jelly for Colds in the Head, Catarrh, and Prevention of Infection; a Mouth-Wash, a Gargle and Nasal Spray, a Salve to be Applied to the Chest as a Counter-Irritant and to Loosen Up Congestion, a Lotion to be Applied to the Skin as a Soothing and Strengthening Tonic, and a Shampoo.
Claims use since May 3, 1921.

Ser. No. 150,263. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE EDWARD C. ROBERTS COMPANY, Tulsa, Okla. Filed July 12, 1921.

El Dorado

Particular description of goods.—Insecticides.
Claims use since about July 27, 1920.

Ser. No. 150,307. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAMUEL M. BOOTH, Billings, Mont. Filed July 13, 1921.

PLENTY COOS



Particular description of goods.—A Medicine for Use as a Blood-Purifier.
Claims use since May 25, 1921.

Ser. No. 150,316. (CLASS 38. PRINTS AND PUBLICATIONS.) INTERNATIONAL ASSOCIATION OF LIONS CLUBS, Chicago, Ill. Filed July 13, 1921.



Particular description of goods.—Periodicals Issued Monthly, Bulletins, and Circulars Used Between the Different Units of the Association for the Furtherance of Its Objects.
Claims use since Jan. 13, 1920.

Ser. No. 150,330. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WHY-SOL BATTERY SOLUTION COMPANY, Cincinnati, Ohio. Filed July 13, 1921.

"WHY-SOL"

Particular description of goods.—A Solution for All Makes of Lead-Plate Batteries.
Claims use since Mar. 22, 1921.

Ser. No. 150,344. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) AMERICAN TRADING COMPANY OF NEW ORLEANS, Wilmington, Del., and New York, N. Y. Filed July 14, 1921.



Particular description of goods.—Turpentine.
Claims use since June 10, 1921.

Ser. No. 150,345. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES R. ANGELL, New Orleans, La. Filed July 14, 1921.

ANGELL'S



Particular description of goods.—A Syrup Remedy for Coughs and Whooping-Coughs, Colds, and Bronchitis.
Claims use since 1899.

Ser. No. 150,347. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BLANDING & BLANDING, INC., Providence, R. I. Filed July 14, 1921.

Albu-Ferrum

Particular description of goods.—A Remedy Valuable in the Treatment of Chlorosis, Anemia, Scrofula, and All Impoverished Conditions of the Blood and a Tonic and Restorative in General Debility and Convalescence from Wasting Diseases.
Claims use since Mar. 1, 1921.

Ser. No. 150,349. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BLANDING & BLANDING, INC., Providence, R. I. Filed July 14, 1921.

LINOMUL

Particular description of goods.—A Remedy Indicated in Pulmonary Diseases, Chronic Coughs and Colds, Acute and Chronic Bronchitis, the After Effects of La Grippe, Wasting Diseases, Rickets, Scrofula, Whooping-Cough, and General Debility.
Claims use since Mar. 1, 1921.

Ser. No. 150,350. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BIANCHINI, FERIER, Lyon, France. Filed July 14, 1921.

TRIBOULINE

Particular description of goods.—Piece Goods of Silk, Wool, and Cotton.
Claims use since Apr. 28, 1921.

Ser. No. 150,356. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GRAND RAPIDS VARNISH CORPORATION, Grand Rapids, Mich. Filed July 14, 1921.

MICH-A-LAC

Consists of the coined word "Mich-a-Lac."
Particular description of goods.—Varnishes.
Claims use since Nov. 6, 1918.

Ser. No. 150,362. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEWIS BROTHERS, INC., New York, N. Y. Filed July 14, 1921.

Particular description of goods.—Hair-Dressing.
Claims use since January, 1921.

Ser. No. 150,391. (CLASS 43. THREAD AND YARN.) THE AMERICAN THREAD COMPANY, Jersey City, N. J. Filed July 15, 1921.

LAKE ISLAND

Particular description of goods.—Spool-Cotton, Sewing-Cotton, Thread, and Cotton Yarn.
Claims use since 1898.

Ser. No. 150,412. (CLASS 32. FURNITURE AND UPHOLSTERY.) EDWARD MAURICE TURNER, Rochester, N. Y. Filed July 15, 1921.

JUNIOR

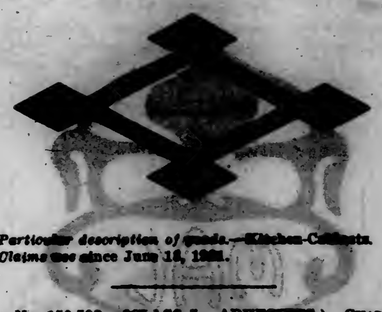
Particular description of goods.—A Folding Crib for Children.
Claims use since June 29, 1921.

Ser. No. 150,423. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. FREDERICK L. SINGER, St. Louis, Mo. Filed July 15, 1921.

ACOMA

Particular description of goods.—A Medicinal Tablet for Prevention of Attacks of Epilepsy.
Claims use since June 20, 1921.

Ser. No. 150,474. (CLASS 32. FURNITURE AND UPHOLSTERY.) G. I. SELLERS & SONS COMPANY, Elwood, Ill. Filed July 16, 1921.



Particular description of goods.—Kitchen Cabinets.
Claims use since June 15, 1921.

Ser. No. 150,502. (CLASS 5. ADHESIVES.) CHARLEY LUTHER BROWN, Oklahoma, Okla. Filed July 18, 1921.

RAV-ON

Particular description of goods.—Tire-Sealing Compound.
Claims use since Apr. 20, 1921.

Ser. No. 150,523. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELECTRO CHEMICAL REFINERIES, INC., Chicago, Ill. Filed July 18, 1921.

ALCOH-OIL

Particular description of goods.—A Solvent and Menstruum and Substitute for Ethyl Alcohol.
Claims use since June 6, 1921.

Ser. No. 150,564. (CLASS 38. PRINTS AND PUBLICATIONS.) INTERNATIONAL ASSOCIATION OF LIONS CLUBS, Chicago, Ill. Filed July 18, 1921.

LIONS CLUB MAGAZINE

Consisting of the words "Lions Club Magazine."
Particular description of goods.—A Monthly Periodical.
Claims use since November, 1918.

Ser. No. 150,565. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE PARIS MANUFACTURING COMPANY, Cleveland, Ohio. Filed July 18, 1921.

Winade

Particular description of goods.—Window-Shades.
Claims use since Mar. 1, 1919.

Ser. No. 150,572. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JULIUS G. SCHNEIDER, Eldorado Springs, Mo. Filed July 18, 1921.

HOPI

Particular description of goods.—Medicine Used in the Treatment of the Blood.
Claims use since November, 1920.

Ser. No. 150,588. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAURICE J. TIERAN, Springfield, Ohio. Filed July 18, 1921. Under ten-year proviso.

DIAMOND DEW

Particular description of goods.—A Toilet Preparation for External Application to the Skin to Improve and Beautify the Complexion and for Medicinal Use by Such Application in Cases of Skin Eruptions.
Claims use since July, 1906.

Ser. No. 150,712. (CLASS 12. CONSTRUCTION MATERIALS.) JUNIUS H. STONE CORPORATION, New York, N. Y. Filed July 20, 1921.

RUBBERSTONE

Particular description of goods.—Composition Flooring in Blocks and Sheets.
Claims use since on or about Apr. 1, 1920.

Ser. No. 150,747. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) D. & H. HEIDGERD, New York, N. Y. Filed July 21, 1921.

D & H

Particular description of goods.—Woolens and other Textiles Used in Men's Wear Trade—to wit, Pongee Silk, Linen Duck, Cotton Duck, Silk Vestings, Mohair Suitings, and Corduroy.
Claims use since September, 1916.

Ser. No. 150,749. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE JESSAL COMPANY, Brooklyn, N. Y. Filed July 21, 1921.

JESSAL

Particular description of goods.—Cushions.
Claims use since June 30, 1921.

Ser. No. 150,762. (CLASS 32. FURNITURE AND UPHOLSTERY.) MESSERBEAU METAL BED COMPANY, Jersey City, N. J. Filed July 21, 1921.



Particular description of goods.—Metal Bedsteads and Cribs.
Claims use since 1910.

Ser. No. 150,843. (CLASS 38. PRINTS AND PUBLICATIONS.) BERT M. BARNES, Brooklyn, N. Y. Filed July 23, 1921.

The Blue Pencil

Particular description of goods.—Magazines Published Monthly.
Claims use since June 6, 1921.

Ser. No. 150,844. (CLASS 5. ADHESIVES.) BARDEN ADAMSON COMPANY, Boston, Mass. Filed July 23, 1921. Under ten-year proviso.



Particular description of goods.—Glue.
Claims use since 1891.

Ser. No. 150,893. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FRANCES FOX LABORATORIES, INCORPORATED, New York, N. Y. Filed July 25, 1921.



"Olive Oil Soap for Hair and Skin" not being herein claimed apart from the mark shown, and the picture being purely fanciful.
Particular description of goods.—Soap for Hair and Skin.
Claims use since June 1, 1921.

Ser. No. 151,060. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NEHESCO, HESSLEIN & Co., INC., New York, N. Y. Filed July 28, 1921.



No claim for registration is made for the words "Trade-Mark Registered" or the words "The Future of Cotton Goods" as shown in the circles of the medallions. The trade-mark consists of a triangular ticket with medallions in the three angles of the triangle and the "open eye" with the word "Nehesco" above, and the words "Nunca Dormimos" below the "open eye," and the word "Triangulo" below the words "Nunca Dormimos."

Particular description of goods.—Woven Cotton Piece Goods—Namely, Drills, Striped and Checked Colored Woven Piece Goods of All Descriptions.

Claims use since January, 1919.

Ser. No. 151,062. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PYORR-LARIS COMPANY, St. Louis, Mo. Filed July 28, 1921.

Royd

Particular description of goods.—Tooth-Paste.

Claims use since about July 22, 1921.

Ser. No. 151,222. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) M. J. KOIDERA, Cicero, Ill. Filed Aug. 1, 1921.

BOHEMIAN

Particular description of goods.—A Remedy for the Treatment of Rheumatism.

Claims use since July 1, 1921.

Ser. No. 151,282. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ROSEVILLE COMPANY, Lawrenceburg, Ind. Filed Aug. 1, 1921.

SHELLACOL

Particular description of goods.—Alcoholic Solvent.

Claims use since Apr. 15, 1921.

Ser. No. 151,294. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ABDUL SATR, Burgettstown, Pa. Filed Aug. 2, 1921.

CIN-O-SANDAL

Particular description of goods.—Blood-Purifying Medicine.

Claims use since July 28, 1921.

Ser. No. 151,329. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OHIO VALLEY DRUG COMPANY, Wheeling, W. Va. Filed Aug. 3, 1921.

ALKA-FORMAL

Particular description of goods.—An Antiseptic and Prophylactic Solution.

Claims use since June 1, 1921.

Ser. No. 151,330. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OHIO VALLEY DRUG COMPANY, Wheeling, W. Va. Filed Aug. 3, 1921.

ALRHUSEAL

Particular description of goods.—Elixir Rhubarb Alkaline with Pancreatin.

Claims use since June 1, 1921.

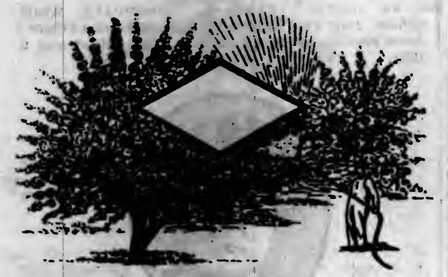
Ser. No. 151,359. (CLASS 27. HOROLOGICAL INSTRUMENTS.) FABRIQUE DE MONTRES SELVA S. A., Bienne, Switzerland. Filed Aug. 4, 1921.

SELVA

Particular description of goods.—Watches and Parts of Watches.

Claims use since Mar. 1, 1921.

Ser. No. 151,363. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JONSON EUREKA COMBINATION SPRAY CO., Yakima, Wash. Filed Aug. 4, 1921.



Particular description of goods.—Insecticide.

Claims use since Apr. 10, 1921.

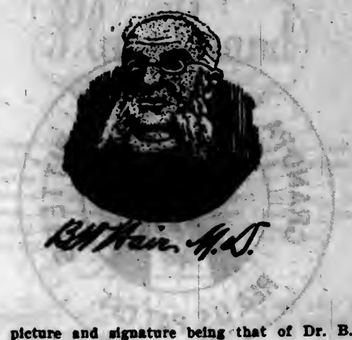
Ser. No. 151,364. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JONSON EUREKA COMBINATION SPRAY CO., Yakima, Wash. Filed Aug. 4, 1921.

FUMI-TACT

Particular description of goods.—Insecticide.

Claims use since Apr. 10, 1921.

Ser. No. 151,377. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALPHONSE J. PATER, Hamilton, Ohio. Filed Aug. 4, 1921.



The picture and signature being that of Dr. B. W. Hair, deceased.

Particular description of goods.—A Preparation for the Treatment of Asthma.

Claims use since July 2, 1921.

Ser. No. 151,378. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GUSTAVE PHILBERT, Nice, France. Filed Aug. 4, 1921.

STYX

Particular description of goods.—Insecticides for the Destruction of Flies, Fleas, Mosquitoes, Butterflies, Mites, and Bugs.

Claims use since May 19, 1921.

Ser. No. 151,441. (CLASS 27. HOROLOGICAL INSTRUMENTS.) VITTORI & CO. DOLMY WATCH CO., La Chaux-de-Fonds, Switzerland. Filed Aug. 4, 1921.

DOLMY

Particular description of goods.—Watches and Parts of Watches.

Claims use since Oct. 6, 1919.

Ser. No. 151,442. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. B. WOODWARD MEDICINE COMPANY, Marlin, Tex. Filed Aug. 4, 1921.



No claim being made to the words "Bitters" or to "Reg. U. S. Pat. Trade Mark" apart from the mark shown, the picture being that of A. B. Woodward, deceased, formerly of Jewett, Tex.

Particular description of goods.—A Blood and Liver Tonic.

Claims use since July 23, 1921.

Ser. No. 151,505. (CLASS 32. FURNITURE AND UPHOLSTERY.) ABRAHAM CULP, New York, N. Y. Filed Aug. 6, 1921.



Consists of the word "Culptone" inscribed across a lyre associated with the words "Trade Mark" and "New York," but no claim being made herein to the words "Trade Mark" and "New York" apart from the mark shown.

Particular description of goods.—Phonograph-Cabinets.

Claims use since October, 1918.

Ser. No. 151,552. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Oak Corner Mills, Anderson, S. C. Filed Aug. 8, 1921.



Particular description of goods.—Piece Goods—Namely, Sheetings and Drills.

Claims use since Mar. 22, 1901.

Ser. No. 151,575. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSIE BROCKHOFF, Salt Lake City, Utah. Filed Aug. 9, 1921.



The picture being a portrait of myself.

Particular description of goods.—A Medicinal Preparation for the Treatment of Diseases of the Female Organs.

Claims use since June 27, 1921.

Ser. No. 151,701. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Aug. 12, 1921.

Cubseal

Particular description of goods.—Pile Fabrics in the Piece.

Claims use since Nov. 27, 1920.

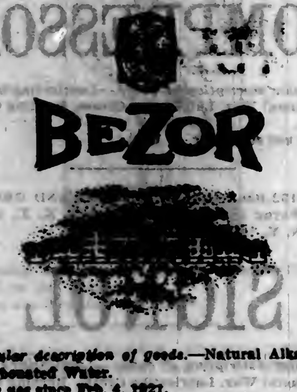
Ser. No. 151,553. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) Theodore R. Kane, Philadelphia, Pa. Filed Aug. 12, 1921.

SPEEDO

Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverage Sold as a Soft Drink and Syrup for Making the Same.

Claims use since June 1, 1920.

Ser. No. 151,724. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE SPICELAND SANITARIUM, Spiceland, Ind. Filed Aug. 12, 1921.



Particular description of goods.—Natural Alkaline, Saline, Carbonated Water.

Claims use since Feb. 4, 1921.

Ser. No. 151,934. (CLASS 27. HOROLOGICAL INSTRUMENTS.) JOSEPH BARFIELD, New York, N. Y. Filed Aug. 19, 1921.

Beaux Arts

Particular description of goods.—Watches and Watch-Movements.

Claims use since Oct. 1, 1920.

Ser. No. 152,139. (CLASS 15. OILS AND GREASES.) THE REFINO COMPANY, Denver, Colo. Filed Aug. 24, 1921.



Particular description of goods.—Gasolene.

Claims use since July 1, 1921.

Ser. No. 152,205. (CLASS 32. FURNITURE AND UPHOLSTERY.) JOHN H. JOHNS, New York, N. Y. Filed Aug. 26, 1921.



The word "Brand" is disclaimed except as used in connection with the other features of the mark shown in the drawing.

Particular description of goods.—Box-Springs, Hair Mattresses, Hair and Wool Mattresses, Feather Pillows, Feather and Down Pillows, and Down Pillows.

Claims use since about July 1, 1921.

Ser. No. 152,220. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE SUGARLAND INDUSTRIES, Sugarland, Tex. Filed Aug. 26, 1921.



Particular description of goods.—Mattresses.

Claims use since Jan. 10, 1921.

Ser. No. 152,277. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) ROSCOE HAEGLIN CO., Santa Rosa, Calif. Filed Aug. 27, 1921.

REDWOOD

Particular description of goods.—Cider and Grape-Juice.

Claims use since Aug. 24, 1920.

Ser. No. 152,301. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ATLAS DOLL COMPANY, Chicago, Ill. Filed Aug. 29, 1921.

TODDLES

Particular description of goods.—Dolls.

Claims use since Apr. 26, 1921.

Ser. No. 152,388. (CLASS 6. DISTILLED ALCOHOLIC LIQUORS.) Western Instrument Co., San Francisco, Calif. Filed Aug. 29, 1921.

WI-ALC

Particular description of goods.—Ethyl Alcohol.
Claims use since May 15, 1921.

Ser. No. 152,392. (CLASS 15. OILS AND GREASES.) Tide Water Oil Company, Bayonne, N. J., and New York, N. Y. Filed Aug. 30, 1921.

FRIDGOL

Particular description of goods.—Lubricating-Oils, Gasolene, Mineral Wax, Lubricating-Grease, Burning Oils, and Kerosene.
Claims use since Mar. 1, 1920.

Ser. No. 152,393. (CLASS 15. OILS AND GREASES.) Tide Water Oil Company, Bayonne, N. J., and New York, N. Y. Filed Aug. 30, 1921.

XTROL

Particular description of goods.—Lubricating-Oils, Gasolene, Mineral Wax, Lubricating-Grease, Burning Oils, and Kerosene.
Claims use since Mar. 1, 1920.

Ser. No. 152,394. (CLASS 15. OILS AND GREASES.) Tide Water Oil Company, Bayonne, N. J., and New York, N. Y. Filed Aug. 30, 1921.

CENTRIFOL

Particular description of goods.—Lubricating-Oils, Gasolene, Mineral Wax, Lubricating-Grease, Burning Oils, and Kerosene.
Claims use since Mar. 1, 1920.

Ser. No. 152,395. (CLASS 15. OILS AND GREASES.) Tide Water Oil Company, Bayonne, N. J., and New York, N. Y. Filed Aug. 30, 1921.

HYATTOL

Particular description of goods.—Lubricating-Oils, Gasolene, Mineral Wax, Lubricating-Grease, Burning Oils, and Kerosene.
Claims use since Mar. 1 ,1920.

Ser. No. 152,396. (CLASS 15. OILS AND GREASES.) Tide Water Oil Company, Bayonne, N. J., and New York, N. Y. Filed Aug. 30, 1921.

ROLLOL

Particular description of goods.—Lubricating-Oils, Gasolene, Mineral Wax, Lubricating-Grease, Burning Oils, and Kerosene.
Claims use since Mar. 1, 1920.

Ser. No. 152,399. (CLASS 15. OILS AND GREASES.) Tide Water Oil Company, Bayonne, N. J., and New York, N. Y. Filed Aug. 30, 1921.

COMPRESSOL

Particular description of goods.—Lubricating-Oils, Gasolene, Mineral Wax, Lubricating-Grease, Burning Oils, and Kerosene.
Claims use since Mar. 1, 1920.

Ser. No. 152,400. (CLASS 15. OILS AND GREASES.) Tide Water Oil Company, Bayonne, N. J., and New York, N. Y. Filed Aug. 30, 1921.

SIGNOL

Particular description of goods.—Lubricating-Oils, Gasolene, Mineral Wax, Lubricating-Grease, Burning Oils, and Kerosene.
Claims use since Mar. 1, 1920.

Ser. No. 152,401. (CLASS 15. OILS AND GREASES.) Tide Water Oil Company, Bayonne, N. J., and New York, N. Y. Filed Aug. 30, 1921.

GASOL

Particular description of goods.—Lubricating-Oils, Gasolene, Mineral Wax, Lubricating-Grease, Burning Oils, and Kerosene.
Claims use since Mar. 1, 1920.

Ser. No. 152,402. (CLASS 15. OILS AND GREASES.) Tide Water Oil Company, Bayonne, N. J., and New York, N. Y. Filed Aug. 30, 1921.

TYCOL

Particular description of goods.—Lubricating-Oils, Gasolene, Mineral Wax, Lubricating-Grease, Burning Oils, and Kerosene.
Claims use since Mar. 1, 1920.

Ser. No. 152,461. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) George Borgfeldt & Co., New York, N. Y. Filed Sept. 1, 1921.

FLORODORA

Particular description of goods.—Dolls.
Claims use since Apr. 1, 1905.

Ser. No. 152,471. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Herbert B. Lederer Co. Inc., New York, N. Y. Filed Sept. 1, 1921.



Particular description of goods.—Malines, Tulles, and Nettings in the Piece.
Claims use since Jan. 26, 1918.

Ser. No. 152,501. (CLASS 2. RECEPTACLES.) Herbert L. Carpenter, New York, N. Y. Filed Sept. 2, 1921.

C. C. C.
CONTAINER
PAT. APL'D. FOR

The words "Container" and "Pat. Apl'd for" are hereby disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Shipping Drums and Containers Used for Food Products, Chemicals, and other Materials.
Claims use since Mar. 9, 1921.

Ser. No. 152,522. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Nathan Seligman, New York, N. Y. Filed Sept. 2, 1921.

Rialto

Particular description of goods.—Hair-Nets.
Claims use since Aug. 29, 1921.

Ser. No. 152,543. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Cooper, Coats & Casey Dry Goods Co., Los Angeles, Calif. Filed Sept. 8, 1921.

SIESTA

Particular description of goods.—Sheets, Sheetings, and Pillow-Cases.
Claims use since July 26, 1921.

Ser. No. 152,552. (CLASS 12. CONSTRUCTION MATERIALS.) Grays Harbor Shingle Company, Aberdeen, Wash. Filed Sept. 8, 1921.

FLO-LINE

Particular description of goods.—Wood Shingles.
Claims use since Feb. 28, 1921.

Ser. No. 152,747. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) Joseph Grondahl, New York, N. Y. Filed Sept. 9, 1921.

ARIEL

Particular description of goods.—Golf-Balls, Golf-Bags, and Golf-Clubs.
Claims use since Feb. 1, 1921.

Ser. No. 152,843. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) H. L. Goodwin, Kansas City, Mo. Filed Sept. 12, 1921.

Golden Rule

Particular description of goods.—Coal and Cord-Wood.
Claims use since Feb. 8, 1921.



TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

OCTOBER 18, 1921.

147,447. MACHINES FOR PRINTING ADDRESSES AND OTHER MATTER. ADDRESSOGRAPH COMPANY, Chicago, Ill.
Filed June 1, 1920. Serial No. 133,120. PUBLISHED JUNE 14, 1921.

147,448. FLEXIBLE SUPPORTS OF LEATHER OR LIKE NON-METALLIC MATERIAL FOR THE SOLE OF THE FOOT, WORN INSIDE BOOTS AND SHOES. ALEXANDER E. BLOCK, St. Louis, Mo.
Filed April 2, 1920. Serial No. 130,511. PUBLISHED JUNE 14, 1921.

147,449. FURNITURE-POLISH. FREDERICK BURGENER, Olney, Ill.
Filed August 17, 1920. Serial No. 136,184. PUBLISHED MAY 17, 1921.

147,450. CERTAIN DIES AND CHASERS AND TAPS, REAMERS, AND MILLING-CUTTERS. CAMDEN MANUFACTURING COMPANY, INC., Columbia, Pa.
Filed November 12, 1920. Serial No. 139,563. PUBLISHED JUNE 14, 1921.

147,451. GRINDING-MACHINES, SUCH AS CEMENT, ORE, OR STONE MILLS, AND PARTS THEREOF. MEYER JOSEPH DAVIDSEN, Paris, France.
Filed September 7, 1920. Serial No. 136,879. PUBLISHED JUNE 14, 1921.

147,452. FIBER AND WOOL CARPETS AND RUGS. W. A. W. DAVIS CORP., New York, N. Y.
Filed May 17, 1920. Serial No. 132,515. PUBLISHED JUNE 14, 1921.

147,453. RAINCOATS COMMONLY KNOWN AS SLICKERS, WATERPROOF OVERALLS AND JUMPERS, AND LEGGINGS. DICKSON RAINCOAT CO., Dickson, Tenn.
Filed April 5, 1920. Serial No. 130,648. PUBLISHED JUNE 14, 1921.

147,454. CEREAL BREAKFAST FOODS. KELLOGG TOASTED CORN FLAKE COMPANY, Battle Creek, Mich.
Filed December 15, 1914. Serial No. 83,292. PUBLISHED JUNE 20, 1916.

147,455. CEREAL BREAKFAST FOODS. KELLOGG TOASTED CORN FLAKE COMPANY, Battle Creek, Mich.
Filed December 27, 1915. Serial No. 91,772. PUBLISHED JUNE 13, 1916.

147,456. PEANUT-BUTTER. KELLOGG TOASTED CORN FLAKE CO., Battle Creek, Mich.
Filed March 28, 1917. Serial No. 102,523. PUBLISHED OCTOBER 9, 1917.

147,457. TEA AND COFFEE. KELLOGG TOASTED CORN FLAKE CO., Battle Creek, Mich.
Filed March 28, 1917. Serial No. 102,524. PUBLISHED OCTOBER 9, 1917.

147,458. FLAKED CEREAL FOODS. KELLOGG TOASTED CORN FLAKE CO., Battle Creek, Mich.
Filed July 2, 1917. Serial No. 104,798. PUBLISHED AUGUST 21, 1917.

147,459. CERTAIN STEELS, AND ALLOYS USED FOR CERTAIN ELEMENTS. LUDLUM STEEL COMPANY, Watervliet, N. Y.
Filed June 4, 1920. Serial No. 133,263. PUBLISHED JUNE 14, 1921.

147,460. CLOTHING—NAMELY, STOCKINGS AND SOCKS FOR MEN, WOMEN, AND CHILDREN. ARTHUR I. LUDWIG, New York, N. Y.
Filed November 8, 1920. Serial No. 139,359. PUBLISHED JUNE 14, 1921.

147,461. AUTOMOBILE RIM-TOOLS. THE K. P. PRODUCTS CO. INC., New York, N. Y.
Filed April 28, 1920. Serial No. 131,739. PUBLISHED JUNE 14, 1921.

147,462. GARTERS, ARMBANDS, SUSPENDERS. SAMUEL RUBIN, New York, N. Y.
Filed November 3, 1920. Serial No. 139,129. PUBLISHED JUNE 14, 1921.

147,463. COFFEE. CHASE & SANBORN, Boston, Mass.
Filed October 19, 1920. Serial No. 138,471. PUBLISHED JUNE 14, 1921.

147,464. SOFT AND STIFF FELT HATS AND CAPS FOR MEN AND BOYS. JOHN B. STETSON COMPANY, Philadelphia, Pa.
Filed October 9, 1920. Serial No. 138,148. PUBLISHED JUNE 14, 1921.

147,465. THREAD AND YARN. STEVENS YARN COMPANY, New York, N. Y.
Filed June 16, 1920. Serial No. 133,800. PUBLISHED JUNE 28, 1921.

147,466. REPLACEMENT PARTS FOR SPEEDOMETERS. F. W. STEWART MANUFACTURING CORPORATION, Chicago, Ill.
Filed June 29, 1920. Serial No. 134,388. PUBLISHED JUNE 14, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

OCTOBER 18, 1921.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

147,467. (CLASS 10. FERTILIZERS.) THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, New York, N. Y. Filed Jan. 20, 1921. Serial No. 142,462.

BASIC

Particular description of goods.—Lime Phosphate.
Claims use since 1915.

147,468. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) AMERICAN LINE MATERIALS COMPANY, Chicago, Ill. Filed June 6, 1921. Serial No. 148,666.

RAINIER FIR · CROSS ARM

Particular description of goods.—Cross-Arms for Telephone-Poles and the Like.
Claims use since Dec. 1, 1914.

147,469. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) AMERICAN SHEET AND TIN PLATE COMPANY, Pittsburgh, Pa. Filed July 16, 1921. Serial No. 150,428.

APOLLO SPECIAL ELECTRICAL

Particular description of goods.—Rolled Iron and Steel Sheets and Plates, and Tin and Terne Plates.
Claims use since 1906.

147,470. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) AMERICAN SHEET AND TIN PLATE COMPANY, Pittsburgh, Pa. Filed July 16, 1921. Serial No. 150,429.

DYNAMO SPECIAL

Particular description of goods.—Rolled Iron and Steel Sheets and Plates, Tin and Terne Plates.
Claims use since 1913.

147,471. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) AMERICAN SHEET AND TIN PLATE COMPANY, Pittsburgh, Pa. Filed July 16, 1921. Serial No. 150,430.

AMERICAN ARMATURE

Particular description of goods.—Rolled Iron and Steel Sheets and Plates, Tin and Terne Plates.
Claims use since 1908.

147,472. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) AMERICAN SHEET AND TIN PLATE COMPANY, Pittsburgh, Pa. Filed July 16, 1921. Serial No. 150,421.

AMERICAN BLUE

Particular description of goods.—Rolled Iron and Steel Sheets and Plates, Tin and Terne Plates.
Claims use since 1898.

147,473. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) AMERICAN SHEET AND TIN PLATE COMPANY, Pittsburgh, Pa. Filed July 16, 1921. Serial No. 150,422.

WELLSVILLE POLISHED

Particular description of goods.—Rolled Iron and Steel Sheets and Plates, Tin and Terne Plates.
Claims use since 1898.

147,474. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARMENIAN DISTRIBUTING CO., New York, N. Y. Filed June 1, 1921. Serial No. 148,477.

ANTHROLIC ACID

Particular description of goods.—Fixing and Developing Acid.
Claims use since Jan. 1, 1916.

147,475. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) BARNHART BROTHERS & SPINDLER, Chicago, Ill. Filed Aug. 16, 1920. Serial No. 136,149.

EZEFLO

Particular description of goods.—Certain Metals, Types, Slugs, Type-Castings, Linotype, Intertype, Stereotype, Monotype, and Solder.
Claims use since Feb. 13, 1915.

147,476. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) BUFFO SOLE PROTECTOR COMPANY, St. Louis, Mo. Filed July 17, 1920. Serial No. 135,187.

SOLESAVERS

Particular description of goods.—Wear-Plates for Shoes.
Claims use since July 1, 1920.

147,477. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALFRED S. BEVILLE, Jacksonville, Fla. Filed June 7, 1921. Serial No. 149,221.

IT'S MILWAUKEE,

Particular description of goods.—Rye Bread.
Claims use since October, 1919.

147,478. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BLUFFTON SLAW CUTTER CO., Bluffton, Ohio. Filed Mar. 7, 1921. Serial No. 144,389.

Rapid

Particular description of goods.—Slaw-Cutters.
Claims use since July 17, 1916.

147,479. (CLASS 15. OILS AND GREASES.) CRE & VRE PRODUCTS CO., New York, N. Y. Filed Sept. 13, 1920. Serial No. 137,114.

KANT-RUST

Particular description of goods.—Lubricating Oils and Greases.
Claims use since on or about Nov. 1, 1918.

147,480. (CLASS 5. ADHESIVES.) THE CONTINENTAL RUBBER CO., Philadelphia, Pa. Filed Dec. 7, 1920. Serial No. 140,711.

TIRES and TUBES

Particular description of goods.—Rubber Tire and Tube Repairs.
Claims use since June 10, 1920.

147,481. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) EASTERN NAIL COMPANY, INC., Providence, R. I. Filed June 3, 1921. Serial No. 148,586.

AWL-POINT

Particular description of goods.—Nails.
Claims use since 1918.

147,482. (CLASS 23. MEASURING AND SCIENTIFIC APPLIANCES.) EIMER & AMEND, New York, N. Y. Filed July 13, 1921. Serial No. 150,312.

FISHER ORGANIC THERMOMETER.

Particular description of goods.—Thermometers.
Claims use since October, 1918.

147,483. (CLASS 16. PAINTS AND PAINTER'S MATERIALS.) HARRY L. FRAGEL, New York, N. Y. Filed Aug. 27, 1918. Serial No. 118,883.

HIGH LUSTRE FINISH

Particular description of goods.—Automobile and Furniture Polish.
Claims use since September, 1916.

147,484. (CLASS 26. MUSICAL INSTRUMENTS AND SUPPLIES.) FEDERAL ELECTRIC COMPANY, Chicago, Ill. Filed Dec. 4, 1920. Serial No. 140,588.

FEDERAL ELECTRIC

Particular description of goods.—Phonographs.
Claims use since Aug. 7, 1919.

147,485. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PLACE & PERSELLI CANNING CO., Gilroy, Calif. Filed Nov. 23, 1920. Serial No. 140,029.

PACHECO

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since Apr. 15, 1920.

147,486. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE Pfanmiller Co., Indianapolis, Ind. Filed Mar. 15, 1920. Serial No. 129,710.

VIRGINIA SWEET

Particular description of goods.—Pancake-Flour and Maple-Syrup Used for Food Purposes.
Claims use since Nov. 18, 1919.

147,487. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GANNON GROCERY COMPANY, Marquette, Mich. Filed Apr. 30, 1921. Serial No. 147,021.

PRONTEMAC

Particular description of goods.—Peanut-Butter, Olives, Honey, Rolled Oats, Farina, Cornmeal, Rice, Tea, Coffee, Tapioca, Powdered Sugar, and Canned Fruits, Vegetables, Oysters, and Canned Milk.
Claims use since 1900.

147,488. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE GRAPHOSCOPE COMPANY, Washington, D. C. Filed July 14, 1919. Serial No. 120,856.



Particular description of goods.—Motion-Picture-Projecting Machines and Parts Thereof.
Claims use since March, 1915.

147,489. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HERMAN JACOB GIMBERNAT, Pensacola, Fla. Filed Dec. 12, 1919. Serial No. 128,862.



Particular description of goods.—Candies and Canned Soups.
Claims use since Nov. 16, 1915.

147,490. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HARRIS MOTORS INC., New York, N. Y. Filed May 24, 1921. Serial No. 148,144.



Particular description of goods.—Gasolene-Motors.
Claims use since Mar. 19, 1920.

147,491. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) HURTY-PECK & COMPANY, Indianapolis, Ind. Filed Apr. 2, 1921. Serial No. 145,626.

Lime Rickey

Particular description of goods.—Non-Alcoholic Maltless Beverage Sold as a Soft Drink and Syrups for Making the Same.
Claims use since February, 1920.

147,492. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JONES & LAMSON MACHINE COMPANY, Springfield, Vt. Filed Feb. 17, 1921. Serial No. 143,698.

HARTNESS

Particular description of goods.—Lathes, and Dies for Cutting Threads on Screws, Bolts, Studs, &c.
Claims use since on or about Sept. 1, 1895.

147,493. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) KANSAS CITY KOLA COMPANY, Kansas City, Mo. Filed May 6, 1921. Serial No. 147,205.



Particular description of goods.—Non-Alcoholic Maltless Beverage Sold as a Soft Drink and Syrup for Making Same.
Claims use since June 1, 1918.

147,494. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE LEHMAN-ROSENFIELD COMPANY, Cincinnati, Ohio. Filed Aug. 1, 1921. Serial No. 151,238.

IRONBEER

Particular description of goods.—Non-Alcoholic Maltless Beverage Sold as a Soft Drink and Extract for Making Same.
Claims use since 1905.

147,495. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LUTHER SYLVESTER LOWREY, San Francisco, Calif. Filed June 6, 1921. Serial No. 148,743.

LOWREY'S
HO-MADE NOUGAT

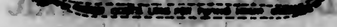
Particular description of goods.—Candies.
Claims use since May 1, 1920.

147,496. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MORRIS E. LYONS, St. Louis, Mo. Filed Feb. 16, 1921. Serial No. 143,648.

EVERFIRE

Particular description of goods.—Spark-Plugs.
Claims use since June, 1920.

147,497. (CLASS 15. OILS AND GREASES.) THE C. L. MAGUIRE PETROLEUM CO., Chicago, Ill. Filed July 20, 1921. Serial No. 150,696.



Particular description of goods.—Lubricating-Oil.
Claims use since Mar. 23, 1920.

147,498. (CLASS 2. RECEPTACLES.) THE MASON BOX COMPANY, Attleboro Falls, Mass. Filed Dec. 15, 1920. Serial No. 141,124.

Superior

Particular description of goods.—Mailing-Boxes.
Claims use since 1900.

147,499. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ADOLF H. MORNER, New York, N. Y. Filed May 7, 1921. Serial No. 147,356.

BOLINDER'S

Particular description of goods.—Steam Engines and Turbines, Oil-Engines Using Fuel-Oil or Petroleum, Saw-Mill and Woodworking Machinery.
Claims use since the beginning of July, 1914.

147,500. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE MOTOMETER COMPANY, INC., Long Island City, N. Y. Filed July 15, 1920. Serial No. 135,010.

BOYCE

Particular description of goods.—Temperature-indicating Devices for Engines.
Claims use since Dec. 21, 1912.

147,501. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) JOHN MULHERN COMPANY, San Francisco, Calif. Filed June 27, 1921. Serial No. 149,710.

NEŌ ACID

Particular description of goods.—Non-Alcoholic, Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.
Claims use since June 1, 1918.

147,502. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INC., New York, N. Y. Filed June 1, 1921. Serial No. 148,511.

NIAGARA

Particular description of goods.—Dyes, Dyestuffs, and Colors.
Claims use since June 5, 1901.

147,503. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE NATIONAL AMMONIA COMPANY, St. Louis, Mo. Filed June 23, 1921. Serial No. 149,553.

AQUA AMMONIA
PEERLESS
TRADE MARK

Particular description of goods.—Aqua Ammonia.
Claims use since June 15, 1910.

147,504. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) NATIONAL MATCH-NAKERS MACHINE CO. INC., Brooklyn, N. Y. Filed Mar. 15, 1921. Serial No. 144,781.

National

Particular description of goods.—Mayonnaise-Machines.
Claims use since July 19, 1919.

147,505. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) NEW JERSEY OPTICAL CO., Newark, N. J. Filed Dec. 6, 1920. Serial No. 140,670.

REALFIT

Particular description of goods.—Eyeglass Frames and Mountings.
Claims use since on or about Sept. 21, 1915.

147,506. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE NEWTON STEEL COMPANY, Youngstown, Ohio. Filed Aug. 16, 1920. Serial No. 136,176.

NEWSTEEL

Particular description of goods.—Coke-Plates, Black Sheets, (Pickled and Non-Pickled,) and Black Sheets Blued.
Claims use since May 31, 1920.

147,507. (CLASS 22. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) The Goodell-Boyer Co., Logansport, Ind. Filed June 28, 1920. Serial No. 134,212.

BOYER

Particular description of goods.—Chemical Fire-Engines with Certain Equipment and Hand Fire-Extinguishers.
Claims use since May, 1909.

147,508. (CLASS 37. PAPER AND STATIONERY.) Paper Manufacturers Co. Inc., Philadelphia, Pa. Filed Apr. 7, 1921. Serial No. 145,954.



Particular description of goods.—Paper for Wiping Ink from the Faces of Dies.
Claims use since Dec. 1, 1905.

147,509. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) J. H. Parker & Son Incorporated, Parkersburg, W. Va. Filed June 21, 1921. Serial No. 146,626.

NAILIT

Particular description of goods.—Porcelain Insulators.
Claims use since Apr. 1, 1918.

147,510. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) Thomas Paulson & Son, Inc., Brooklyn, N. Y. Filed May 25, 1921. Serial No. 148,287.

"HECLA" BRONZE

Particular description of goods.—Bronze Castings.
Claims use since March, 1898.

147,511. (CLASS 13. HARDWARE AND PLUMBERS' AND STEAMFITTERS' SUPPLIES.) Penn Brass Manufacturing Co., Cleveland, Ohio. Filed Apr. 22, 1921. Serial No. 146,658.

PENN

Particular description of goods.—Certa'n Plumbing Supplies.
Claims use since Nov. 1, 1919.

147,512. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) Perfect Automatic Egg Timer and Manufacturing Company, Chicago, Ill. Filed Nov. 16, 1920. Serial No. 139,737.

Perfect AUTOMATIC

Particular description of goods.—Time-Controlled Egg-Boilers.
Claims use since Jan. 1, 1917.

147,513. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) Charles H. Pugh, Limited, Birmingham, England. Filed Jan. 10, 1921. Serial No. 142,630.

ALFRED APPLEBY

Particular description of goods.—Driving-Chains for Cycles and Motorcycles.
Claims use since February, 1897.

147,514. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) Schalk Chemical Company, Los Angeles, Calif. Filed Aug. 25, 1921. Serial No. 152,188.

SAVABRUSH

Particular description of goods.—Paint and Varnish Remover.
Claims use since Feb. 27, 1917.

147,515. (CLASS 22. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Snap-On Wrench Company, Milwaukee, Wis. Filed Mar. 14, 1921. Serial No. 144,750.

Snap-on

Particular description of goods.—Wrenches.
Claims use since Feb. 2, 1920.

147,516. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) Southland Steamship Company, Wilmington, Del. Filed June 13, 1921. Serial No. 149,104.

LEBBY

Particular description of goods.—Electric Searchlights and Electric-Lighting Outfits and Fixtures.
Claims use since Jan. 14, 1914.

147,517. (CLASS 7. CORDAGE.) George W. Southwick, Stamford, Conn. Filed Sept. 15, 1920. Serial No. 137,245.

SOUTHWICK'S FIBRE HYDE
ROUND BELT LACING

Particular description of goods.—Cotton Belt-Lacing.
Claims use since June 1, 1920.

147,518. (CLASS 37. PAPER AND STATIONERY.) Standard Check Book Co., Inc., Richmond, Va. Filed Apr. 19, 1921. Serial No. 146,400.

FLAT-STUB

Particular description of goods.—Check-Books.
Claims use since February, 1920.

147,519. (CLASS 9. RECEPTACLES.) Sealshipt Insulating Company, Great Barrington, Mass. Filed May 26, 1921. Serial No. 146,892.

IT WILL NOT BREAK

Particular description of goods.—Vacuum-Jacketed Receptacles.
Claims use since Jan. 1, 1919.

147,520. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) John Steinbis & Co. Inc., New York, N. Y. Filed Feb. 18, 1921. Serial No. 143,791.

POCKET

Particular description of goods.—Pocketbooks.
Claims use since June 19, 1919.

147,521. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) St. Louis Electrical Works, St. Louis, Mo., assignors to Valley Electric Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 8, 1920. Serial No. 136,574.

ST. LOUIS

Particular description of goods.—Rectifiers for Alternating Currents.
Claims use since about June 1, 1914.

147,522. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) Superior Lamp M'f'g. Co., New York, N. Y. Filed Aug. 27, 1920. Serial No. 135,570.

SUPERIOR

Particular description of goods.—Certain Named Electric Accessories for Automobiles.
Claims use since November, 1913.

147,522. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE THOMPSON-DENYSE CO., Seattle, Wash. Filed Nov. 26, 1920. Serial No. 140,217.

Cedro Piano

Particular description of goods.—Piano and Furniture Polish.
Claims use since June 15, 1915.

147,524. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TRION COMPANY, Trion, Ga. Filed May 20, 1921. Serial No. 143,001.

TRION

The word "Trion" is stamped upon the goods in blue—that is, the letters are lined in blue, as indicated in the drawing, upon which the trade-mark is shown.
Particular description of goods.—Cotton Goods in the Piece.
Claims use since 1861.

147,525. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) U. S. BALL BEARING MANUFACTURING COMPANY, Chicago, Ill. Filed Dec. 13, 1920. Serial No. 141,647.

Strom

The lining shown in the drawing and in the specimens is to express shading and is not intended to designate any color.
Particular description of goods.—Ball-Bearings.
Claims use since on or about the first day of November, 1918.

147,526. (CLASS 2. RECEPTACLES.) GEORGE SOMMAR WARD, New York, N. Y. Filed July 1, 1921. Serial No. 149,940.

WARD'S KLEEN-RITE SPOONHOLDER

Particular description of goods.—Soda-Spoon Holders.
Claims use since Mar. 1, 1920.

147,527. (CLASS 37. PAPER AND STATIONERY.) WHITING PAPER COMPANY, Holyoke, Mass. Filed Apr. 30, 1921. Serial No. 147,071.

THE BEST WRITING PAPERS ARE WHITING PAPERS

Particular description of goods.—Writing-Papers and Mailing-Envelops.
Claims use since March, 1920.

147,528. (CLASS 2. RECEPTACLES.) THE YOUNGSTOWN BOILER & TANK CO., Youngstown, Ohio. Filed Feb. 11, 1921. Serial No. 143,468.

Youngstown TANKS

Particular description of goods.—Tanks.
Claims use since Apr. 1, 1919.

LABELS

REGISTERED OCTOBER 18, 1921.

23,440.—*Title:* "ALL SAINTS." (For Cigars.) ALL SAINTS CIGAR CO., Tampa, Fla. Filed April 11, 1921.

23,441.—*Title:* "ALL SAINTS." (For Cigars.) ALL SAINTS CIGAR CO., Tampa, Fla. Filed April 11, 1921.

23,442.—*Title:* "AMBROSIA MILK CHOCOLATES." (For Boxes of Candy.) AMBROSIA CHOCOLATE CREAM CO., Chicago, Ill. Filed May 14, 1921.

23,443.—*Title:* "SILVERKIST SYRUP." (For Containers for Table-Syrup.) AMERICAN SUGAR PRODUCTS CORPORATION, Los Angeles, Calif. Filed May 4, 1921.

23,444.—*Title:* "JACK FROST SYRUP." (For Containers for Table-Syrup.) AMERICAN SUGAR PRODUCTS CORPORATION, Los Angeles, Calif. Filed May 4, 1921.

23,445.—*Title:* "VAN RUBA CALF." (For Calf-Leather.) BARNET LEATHER CO. INC., New York, N. Y. Filed May 20, 1921.

23,446.—*Title:* "BROMM'S OLD VIRGINIA." (For Fruit Cake.) THE L. BROMM BAKING CO., Richmond, Va. Filed June 17, 1920.

23,447.—*Title:* "CHÉRI KISSES (DEARIE)." (For Candy Kisses.) CHÉRI INC., Philadelphia, Pa. Filed June 24, 1920.

23,448.—*Title:* "J D" (For Receptacles Containing Rubber Heels.) COUNTERBALANCE RUBBER HEEL CO., Elyria, Ohio. Filed June 20, 1921.

23,449.—*Title:* "CROWN MALT EXTRACT." (For Cans Containing Malt Extract.) THE CROWN BREWING COMPANY, Cincinnati, Ohio. Filed June 3, 1921.

23,450.—*Title:* "KLEAN-GLAS." (For Liquid for Cleaning Glass.) EUGENIE EARL, San Francisco, Calif. Filed July 6, 1921.

23,451.—*Title:* "EJECTO." (For Mouthpiece-Holders for Cigarette Products.) EJECTO CIGARETTE HOLDER CO., San Francisco, Calif. Filed May 6, 1921.

23,452.—*Title:* "EMPIRE CHOC-O-LETTE." (For a Powder Containing Cocoa, Sugar, and Skimmed Milk for Making a Beverage.) EMPIRE FOOD PRODUCTS COMPANY, New York, N. Y. Filed July 14, 1921.

23,453.—*Title:* "EMPIRE POWDERED MILK." (For Powdered Skimmed Milk.) EMPIRE FOOD PRODUCTS COMPANY, New York, N. Y. Filed July 14, 1921.

23,454.—*Title:* "REELEGG EGGS IN POWDERED FORM." (For Eggs in Powdered Form.) EMPIRE FOOD PRODUCTS COMPANY, New York, N. Y. Filed July 14, 1921.

23,455.—*Title:* "EMPIRE BAKING POWDER." (For Baking-Powder.) EMPIRE FOOD PRODUCTS COMPANY, New York, N. Y. Filed July 14, 1921.

23,456.—*Title:* "MARMON." (For Cigars.) DOMINIGUE FOSTER, Milwaukee, Wis. Filed June 25, 1921.

23,457.—*Title:* "BUTTER-KRUST." (For Bread.) WILLIAM FREIHOFER, Philadelphia, Pa. Filed May 19, 1921.

23,458.—*Title:* "THE WIZARD." (For Educational Games and Toys.) FULTON SPECIALTY CO., Elisabeth, N. J. Filed May 26, 1921.

23,459.—*Title:* "MAGIC SALVE." (For Salve for Rheumatic and Inflammatory Troubles.) EUGENE GAMMICHLER, Brooklyn, N. Y. Filed April 11, 1921.

23,460.—*Title:* "DOUBLELIFE." (For Safety-Razors and Safety-Razor Blades.) GEM SAFETY RAZOR CORPORATION, Brooklyn, N. Y. Filed October 3, 1921.

23,461.—*Title:* "REGINA HAIR NET." (For Hair-Nets.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed July 5, 1921.

23,462.—*Title:* "GLOBE 'Al'." (For Baby-Pig Feed.) GLOBE GRAIN & MILLING COMPANY, Los Angeles, Calif. Filed September 30, 1920.

23,463.—*Title:* "RUNWEL." (For Twisted Packing for Valve-Stems.) GREENE, TWEED & CO., New York, N. Y. Filed June 13, 1921.

23,464.—*Title:* "HALE'S PHEMALEZE." (For Medicine for Nervous Affections of Women.) E. B. HALE, Lima, Ohio. Filed May 21, 1921.

23,465.—*Title:* "SPRING-EEZ." (For Rust-Solvent Lubricant.) HALSTEAD SPECIALTIES CO., San Francisco, Calif. Filed June 2, 1921.

23,466.—*Title:* "HE-MI-LA." (For Candy—Namely, Bar-Candy.) HEIT MILLER LAU CO., Fort Wayne, Ind. Filed November 29, 1920.

23,467.—*Title:* "GOLDEN-HEN." (For Boxes, Kegs, and Barrels Containing Golden-Hen, a Diluted Mixture of Certified Colors.) B. HELLER & CO., Chicago, Ill. Filed February 1, 1921.

23,468.—*Title:* "ZANZIBAR-BRAND FLY CHASER." (For Containers Holding Zanzibar-Brand Fly-Chaser, a Preparation for Chasing Flies from Cattle, Horses, Dogs, and Animal-Quarters.) B. HELLER & CO., Chicago, Ill. Filed March 24, 1921.

23,469.—*Title:* "DENTOLENE." (For a Preparation for the Treatment of Pyorrhea Alveolaris, Spongy, Bleeding, or Receding Gums, and for an Oral Prophylactic or Mouth-Wash.) HABIA BROS., Newark, N. J. Filed July 1, 1921.

23,470.—*Title:* "TOKALON EYEBROW PENCIL." (For Receptacles and Packages Containing Eyebrow-Pencils.) INTERNATIONAL CONSOLIDATED CHEMICAL CORP., INC., New York, N. Y. Filed May 24, 1921.

23,471.—*Title:* "CRÈME TOKALON." (For Receptacles and Packages Containing Toilet Creams.) INTERNATIONAL CONSOLIDATED CHEMICAL CORP. INC., New York, N. Y. Filed May 24, 1921.

23,472.—*Title:* "CATALINA BRAND." (For Canned Tuna Fish.) INTERNATIONAL PACKING CORPORATION, Los Angeles, Calif. Filed May 22, 1920.

23,473.—*Title:* "GOUBERS." (For Candy.) KELLOGG SUGAR PRODUCTS COMPANY, Lima, Ohio. Filed May 5, 1921.

23,474.—*Title:* "KLEEODORE TOILET CREAM." (For Bottles Containing Kleeodore Toilet Cream.) THEODORE P. KLEE, Kansas City, Mo. Filed October 18, 1920.

23,475.—*Title:* "MME J. H. LANE'S 'OVER THE TOP' HAIR CREAM." (For Containers of the Aforesaid Hair-Cream.) Mme J. H. LANE, Atlantic City, N. J. Filed June 22, 1921.

23,476.—*Title:* "LOWREY'S PRALINES." (For Pecan Candy.) LUTHER SYLVESTER LOWRY, San Francisco, Calif. Filed September 15, 1920.

23,477.—*Title:* "DUBL-RUB MOTOR CAR POLISH AND CLEANER." (For Automobiles.) J. W. MACCANN, Oakland, Calif. Filed May 2, 1921.

23,478.—*Title:* "PURITAN MALT SUGAR SYRUP." (For Malt-Sugar Syrup.) JOSEPH E. MAGNUS, Chicago, Ill. Filed April 27, 1921.

23,479.—*Title:* "ITALY BRAND." (For Macaroni.) G. Matalone, Chicago, Ill. Filed March 22, 1921.

23,480.—*Title:* "WAUKESHA ICE CREAM." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company, Menasha, Wis., assignor to Waukesha Ice Cream Company, Waukesha, Wis. Filed July 5, 1921.

23,481.—*Title:* "DAIRY MAID ICE CREAM." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company, Menasha, Wis., assignor to Neches Creamery Company, Beaumont, Tex. Filed July 5, 1921.

23,482.—*Title:* "MOWRY'S GOLDEN GLOW BUTTER." (For Cartons Containing Butter.) Menasha Printing and Carton Company, Menasha, Wis., assignor to Mowry Creamery Company, Colorado Springs, Colo. Filed July 5, 1921.

23,483.—*Title:* "DELICIOUS M-B". (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company, Menasha, Wis., assignor to M B Ice Kream Company, Waco, Tex. Filed July 5, 1921.

23,484.—*Title:* "CORDIAL CHERRIES." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company, Milwaukee, Wis. Filed July 1, 1921.

23,485.—*Title:* "MORGAN'S MAGIC COLD CREAM." (For Cold-Cream.) S. H. Morgan Manufacturing Company, Pasadena, Calif. Filed February 8, 1920.

23,486.—*Title:* "WINK." (For 6½ Oz. Bottles Containing a Delicious Drink Made from Orange and other Similar Flavors.) Muscalmt Beverages Company, New York, N. Y. Filed April 16, 1921.

23,487.—*Title:* "NORTHRUP, KING & CO.'S STERLING BUTTERMILK MASH." (For Bags of Poultry Feed.) Northrup, King & Co., Minneapolis, Minn. Filed May 17, 1921.

23,488.—*Title:* "PARFAIT." (For Hair-Nets.) Pagoda Import Company, Inc., New York and Brooklyn, N. Y. Filed April 7, 1921.

23,489.—*Title:* "SNOW DROP." (For Foot-Salve.) L. Lawrence B. Prosek, Salem, Mass. Filed December 7, 1920.

23,490.—*Title:* "BEER FOX." (For Corn-Syrup and Refiners' Syrup.) Penick & Ford, Ltd., Inc., New Orleans, La. Filed April 22, 1921.

23,491.—*Title:* "PILLSBURY'S TOASTED NUT KISSES." (For Candy.) John C. Pillsbury, Whitefield, N. H. Filed April 11, 1921.

23,492.—*Title:* "PINGREE'S OLD GLORY BRAND." (For Coffee.) Chase H. Pingree, Wilmette, Ill. Filed April 27, 1921.

23,493.—*Title:* "DR. PRICE'S ROLLED OATS." (For Packages Containing Cereal Rolled Oats.) Price Food Products Corporation, Minneapolis, Minn. Filed May 12, 1921.

23,494.—*Title:* "MEPHISTO A DEVIL-ISH GOOD SMOKE." (For Cigar-Boxes and Cigars.) H. N. Rankel, Milwaukee, Wis. Filed June 27, 1921.

23,495.—*Title:* "RED TOP." (For Tin Cans Containing Malt Extract.) Red Top Malt Extract Co., Cincinnati, Ohio. Filed April 20, 1921.

23,496.—*Title:* "RICET." (For a Rice Food.) Rice Products Co. Inc., New Orleans, La. Filed July 5, 1921.

23,497.—*Title:* "HOLD-PHAST." (For Hair-Nets.) Richmond Sunset Company, Inc., Richmond, Va. Filed June 22, 1921.

23,498.—*Title:* "GOLDEN CRUST." (For Bread.) Rose and Weinstaub Baking Company, Kansas City, Mo. Filed May 28, 1921.

23,499.—*Title:* "SCHNARR'S SPRAY FORMULA." (For Materials Employed in Spraying Vegetation.) J. Schnarr & Company, Orlando, Fla. Filed April 14, 1921.

23,500.—*Title:* "SOWEGA." (For Watermelons.) Southwest Georgia Watermelon Growers Association, Adel, Ga. Filed October 3, 1921.

23,501.—*Title:* "CLOVER BLOSSOM." (For Cheese.) Gustavus Adolph Stallman, Watertown, Wis. Filed July 13, 1920.

23,502.—*Title:* "BIG SAM." (For Overalls and Work-Shirts.) Standard Overall Company, Baltimore, Md. Filed April 1, 1921.

23,503.—*Title:* "PRINCESS HAIR NET." (For Hair-Nets.) Sugerman Bros., Cleveland, Ohio. Filed April 8, 1921.

23,504.—*Title:* "SERVUS MANUFACTURER FEEDER." (For Animal and Poultry Feeds.) Thomas-Boyce Direct Feed Company, Indianapolis, Ind. Filed April 5, 1920.

23,505.—*Title:* "DIRECT MANUFACTURER FEEDER." (For Animal and Poultry Feeds.) Thomas-Boyce Direct Feed Company, Indianapolis, Ind. Filed April 5, 1920.

23,506.—*Title:* "FERMENTIVE THE SUPERMALT SYRUP." (For Malt Syrups and Extracts.) Arnold Wahl, Chicago, Ill. Filed May 31, 1921.

23,507.—*Title:* "WESTON'S SPECIAL MALT SYRUP." (For Cans Which Contain Pure Barley-Malt Syrup.) E. J. Weston, Los Angeles, Calif. Filed April 5, 1921.

PRINTS

REGISTERED OCTOBER 18, 1921.

5,768.—*Title:* "AMERICA'S CHOICE." (For Advertising Purposes for Adams Black Jack Chewing-Gum.) American Chicle Co., New York, N. Y. Filed August 4, 1919.

5,769.—*Title:* "LADISH QUALITY." (For Advertising Purposes for Flour.) Aultman Inc., Milwaukee, Wis. Filed May 2, 1921.

5,770.—*Title:* "BEECH-NUT PEANUT BUTTER." (For Advertising Purposes for Beech-Nut Peanut-Butter.) Beech-Nut Packing Co., Canajoharie, N. Y. Filed July 28, 1919.

5,771.—*Title:* "BEECH-NUT GINGER ALE." (For Advertising Purposes for Beech-Nut Ginger-Ale.) Beech-Nut Packing Co., Canajoharie, N. Y. Filed July 28, 1919.

5,772.—*Title:* "THE HANDY CANDY." (For Advertising Purposes for Handy Candy.) Beech-Nut Packing Co., Canajoharie, N. Y. Filed July 28, 1919.

5,773.—*Title:* "HANDY CANDY CLOVES FLAVOR." (For Advertising Purposes for Beech-Nut Brand Handy Candy.) Beech-Nut Packing Co., Canajoharie, N. Y. Filed June 1, 1920.

5,774.—*Title:* "FOR REAL FLAVOR SERVE—BEECH-NUT JELLIED FRUIT." (For Advertising Purposes for Beech-Nut Jellied Fruit.) Beech-Nut Packing Co., Canajoharie, N. Y. Filed March 31, 1920.

5,775.—*Title:* "QUALITY EVER MAINTAINED." (For Advertising Purposes for Athletic Underwear.) The B. V. D. Company, New York, N. Y. Filed June 13, 1921.

5,776.—*Title:* "THE HALLIWELL 'TURTLE' CURLING IRON STOVE." (For Advertising Purposes for Heaters for Curling-Irons.) Richard H. Brown, New York, N. Y. Filed April 7, 1920.

5,777.—*Title:* "CANADA'S BEST FURS." (For Advertising Purposes for Furs.) Canadian Fur Traders, Detroit, Mich. Filed April 7, 1921.

5,778.—*Title:* "COLORITE." (For Advertising Purposes for Colorite.) Carpenter-Morton Co., Boston, Mass. Filed July 28, 1919.

5,779.—*Title:* "COFFEE OR TEA—CHASE & SANBORN'S FOR ME." (For Advertising Purposes for Coffee and Tea.) Chase & Sanborn, Boston, Mass. Filed May 31, 1921.

5,780.—*Title:* "FOOT PRINTS SHOP." (For Advertising Purposes for Shoes.) Consolidated Shoe Company, Inc., Boston, Mass. Filed June 13, 1921.

5,781.—*Title:* "STERLING CREAM." (For Advertising Purposes for Cream.) Floyd E. Cryder, Chicago, Ill. Filed August 16, 1920.

5,782.—*Title:* "I'M SURE IT MUST BE IMPORTANT, JENKINS, OR YOU WOULDN'T DISTURB ME NOW." (For Advertising Purposes for Crane's Linen Lawn and Eaton's Highland Linen.) Eaton, Crane & Pike Company, Pittsfield, Mass. Filed June 3, 1921.

5,783.—*Title:* "FROZEN IN." (For Advertising Purposes for Fire-Extinguishing Apparatus.) Foamite Firefoam Company, New York, N. Y. Filed May 28, 1921.

5,784.—*Title:* "SAPOLIN." (For Advertising Purposes for Stovepipe-Enamel.) Gerstendorfer Bros., New York, N. Y. Filed April 29, 1921.

5,785.—*Title:* "HAYNES 50 THE SMALLER AND LIGHTER HAYNES CAR." (For Advertising Purposes for Automobiles.) The Haynes Automobile Company, Kokomo, Ind. Filed April 28, 1921.

5,786.—*Title:* "JANNETTA." (For Advertising Purposes for Hair-Nets.) M. Herzog, New York, N. Y. Filed July 6, 1921.

5,787.—*Title:* "KELLY SOFTSEAT BED DAVENPORT." (For Advertising Purposes for Bed-Davenports.) J. A. Kelly & Brothers, Clinton, Iowa. Filed June 6, 1921.

5,788.—*Title:* "FLASHLIGHT LAMPS." (For Advertising and Display Purposes for Flashlight-Lamps.) William G. Lenz, Brooklyn, N. Y. Filed April 29, 1921.

5,789.—*Title:* "THE MERROW MACHINE COMPANY." (For Advertising Purposes for Sewing-Machines, Including Overseaming, Overedging, and Shell-Stitch Machines and the Products Thereof.) The Merrow Machine Company, Hartford, Conn. Filed February 19, 1921.

5,790.—*Title:* "NYOIL." (For Advertising Purposes for Nyoil, a Lubricant.) Joseph K. Nye, Fish Island, New Bedford, Mass. Filed August 4, 1919.

5,791.—*Title:* "MEMORIAL DAY." (For Advertising Purposes for Bread.) Oswald Jaeger Baking Co., Milwaukee, Wis. Filed June 22, 1921.

5,792.—*Title:* "KEEP THAT SCHOOLGIRL COMPLEXION." (For Advertising Purposes for Palmolive Soap.) The Palmolive Company, Milwaukee, Wis. Filed July 1, 1921.

5,793.—*Title:* "TAKE HOME SOME ICE CREAM IN A PAPERCAN." (For Advertising Purposes for Papercans.) The Papercan Corporation, Yonkers, N. Y. Filed June 8, 1921.

5,794.—*Title:* "ICE CREAM EASY TO CARRY HOME IN A PAPERCAN." (For Advertising Purposes for Papercans.) The Papercan Corporation, Yonkers, N. Y. Filed June 8, 1921.

5,795.—*Title:* "EASY TO KEEP FRESH EASY TO CARRY HOME IN A PAPERCAN." (For Advertising Purposes for Papercans.) The Papercan Corporation, Yonkers, N. Y. Filed June 8, 1921.

5,796.—*Title:* "AUTHORIZED COLOR CARD SHOWING SEASON'S LATEST SHADES." (For Advertising Purposes for Hosiery.) Real Silk Hosiery Mills, Indianapolis, Ind. Filed May 23, 1921.

5,797.—*Title:* "EXCLUSIVE FEATURES OF REAL SILK FASHIONED HOSIERY." (For Advertising Purposes for Hosiery.) Real Silk Hosiery Mills, Indianapolis, Ind. Filed June 1, 1921.

5,798.—*Title:* "REMINGTON UMC FOR SHOOTING RIGHT." (For Advertising Purposes for Remington UMC Shot-Shells and Shotguns.) Remington Arms UMC Co., New York, N. Y. Filed August 4, 1919.

5,799.—*Title:* "A DELIGHTFUL SUMMER SPECIALTY." (For Advertising Purposes for Frankfurt-Style Sausage.) Swift & Company, Chicago, Ill. Filed July 2, 1921.

5,800.—*Title:* "TETLOW'S PUSSYWILLOW POWDER." (For Advertising Purposes for Tetlow's Pussywillow Face-Powder.) Henry Tetlow Co., Philadelphia, Pa. Filed August 4, 1919.

5,801.—*Title:* "WELSBACH GAS HEATER." (For Advertising Purposes for Gas-Heaters.) Welsbach Co., Gloucester, N. J. Filed April 29, 1921.

REPORT
OF THE
COMMISSIONER OF PATENTS
TO THE
SECRETARY OF THE INTERIOR
FOR THE FISCAL YEAR ENDED JUNE 30, 1921.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 8, 1921.

SIR: I have the honor to submit herewith the following report of the business of the United States Patent Office for the fiscal year ended June 30, 1921:

The Patent Office is in a deplorable condition.

In July, 1919, the then Commissioner, Newton, testifying before the House Committee on Patents, said:

> I have been connected with the Patent Office since 1891 and I am sure that the Office was never in so poor a condition as it is now.

From that time, July, 1919, to June 30, 1921, the Patent Office suffered a loss of 163 examiners. These men who were *scientifically trained and also members of the bar* have been replaced by inexperienced men, fresh from college, without any knowledge of patent law or any legal training. Moreover, the men who resigned were familiar, through years of experience, with the particular art with which they were engaged, and it takes years to train new men to take their places.

During the time that the Patent Office has been losing the 163 men aforesaid, the number of applications received in this Office has increased by leaps and bounds. In the year preceding former Commissioner Newton's testimony the Patent Office received 62,755 applications for patent; in the fiscal year just closed it received 84,248 applications, an increase of 34 per cent. Trade-mark applications jumped from 8,561 to 15,884, or an increase of 85.5 per cent.

The loss of 163 legally and scientifically trained examiners out of a force of 437 would make it impossible to keep up the work even if there had been no increase, but since, during the period referred to, the patent work has increased 34 per cent. and the trade-mark work 85.5 per cent., the situation has become hopeless. This is graphically shown by the fact that when Commissioner Newton testified in July, 1919, there were 18,000 patent applications awaiting action, whereas when the new administration began in March, 1921, there were 42,000 applications awaiting action, and at the close of the fiscal year 1921 there were 49,000 applications awaiting examination.

The actual situation is further shown by the fact that a number of divisions are over eleven months behind with their work. As one example, reference may be made to one of the chemical divisions where five out of nine examiners have been appointed in the last few months. At the close of the fiscal year one of these had been in the Office only one week, another three weeks, another seven weeks, another two months.

One out of every four examiners has resigned in 16 months and more than one-half (or 231 out of 437) have resigned in 32 months.

Relief is imperative.

The *only way* to stop the continuous stream of resignations is to increase the salaries.

These examiners, paid in 1848 the same as Congressmen ($2,400), have had an increase of only 10% since that time. House bill 7077 is designed to partially remedy the situation and to provide slightly larger salaries for the examiners, pending the general reclassification of Federal employees. Some increase is necessary to get suitable men to fill the vacancies and to retain the men already in the Office.

The same bill also increases the fees, so that relief is provided without costing the taxpayer a single cent.

The Patent Office is breaking at the very moment it should be responding to the fullest extent to the depressed industrial conditions of the country. The Secretary of Labor reports that there are over 5,000,000 unemployed in this country and the Patent Office should be helping to provide new avenues for employment, whereas it is retarding industry by holding up for a year or more patents upon which new industries would be started.

The entrance salary of assistant examiners is $1,500 per annum, while the entrance salaries of clerks of city post-offices is $1,400. Assistant examiners must take a three-day examination in higher mathematics, advanced chemistry and physics, one foreign language, technics, (embracing the application of the sciences to all the mechanical, electrical and chemical industries,) and the reading of mechanical drawings, while the candidates for postal clerks take but one day's examination, based upon the requirements of a common school education. The position of insurance claims examiners in the Bureau of the War Risk pays an entrance salary of from $1,800 to $2,500, although the Civil Service examination covers a time of only one day and the qualifications are based upon a common school education and a course in and graduation from a

law school. The candidate for entrance into the examining corps of the Patent Office, not only takes a much severer course of study than the candidates of either of the other positions mentioned, but he has to pass the most exacting examination of a general nature given by the Civil Service Commission. These instances are cited as illustrative, among many others that could be given, of the inequality of conditions and as one of the main reasons for the present critical situation in this bureau. In fact, by comparison, the position of patent examiner has degenerated from the best paid to one of the poorest paid of the technical positions in the Government service.

The outstanding feature of the year's business is not only the maintenance of the abnormal volume of work which was presented the previous fiscal year, but its decided increase. In applications for patents for inventions received, there was a gain of 22% over the fiscal year 1914, the heaviest year before the war, and 35% over the fiscal year 1918; while in the total applications received (including trade-marks and designs), there was an increase of 32% and 47%, respectively.

The receipts of money increased from $2,615,697.33 to $2,712,119.69, or almost $100,000. The expenditures increased at greater rapidity, from $2,427,776.76 to $2,640,373.96, or over $200,000 more than the previous year, reducing the net surplus from the year before from $179,135.96 to $71,745.73. Most of the increase went into printing and photolithographing on account of the increased cost of such service in the Government Printing Office and the increased bids from the contractor for reproduction work. Part of the last named item, however, is offset by a large increase in the stock of copies of patents for sale.

It is apparent, from the figures given and the conditions cited, that the business presented to this Office is altogether too large in volume for the present personnel to properly perform, and that unless remedial measures are effected to provide both an increase in force and salary sufficient to provide a competent and experienced personnel, the present deplorable condition will become intolerable.

Attention is invited to the following statistical tables and matter as presenting more specifically the information concerning the details of the business of the fiscal year:

STATISTICS.

Applications received during fiscal year ended June 30, 1921.

With fees:		
Applications for patents for inventions	84,248	
Applications for patents for designs	5,235	
Applications for reissues of patents	296	
		89,779
Applications for registration of trade-marks	15,884	
Applications for registration of labels	1,466	
Applications for registrations of prints	527	
		17,877
Total, with fees		107,656
Without fees:		
Applications for inventions (act of Mar. 3, 1883)	69	
Applications for reissues, inventions (Rule 170)	4	
Applications for reissues, designs (Rule 170)	1	
Total, without fees		74
Grand total		107,730

Applications for patents for inventions.

Year ended June 30—	
1912	69,226
1913	67,886
1914	69,311
1915	66,497
1916	67,348
1917	68,690
1918	62,399
1919	62,755
1920	81,949
1921	84,248

Applications for patents, including reissues, designs, trade-marks, labels, and prints.

Year ended June 30—	
1912	79,747
1913	78,411
1914	81,539
1915	79,116
1916	80,621
1917	81,538
1918	73,307
1919	75,257
1920	102,940
1921	107,656

Applications awaiting action.

June 30—	
1914	22,288
1915	18,270
1916	16,550
1917	16,022
1918	14,702
1919	17,788
1920	34,255
1921	49,334

Patents withheld and patents expired.

	1920	1921
Letters Patent withheld for nonpayment of final fees	7,235	7,634
Applications allowed awaiting payment of final fees	16,333	15,927
Patents expired	29,289	31,267
Applications in which issue of patent has been deferred under Sec. 4885, R. S.	171	145
Applications in possess of Office	2,666	2,705

Patents granted and trade-marks, labels, and prints registered.

Class.	1917	1918	1919	1920	1921
Letters Patent	42,288	30,214	37,260	37,316	37,927
Design patents	1,636	1,146	1,256	2,103	2,788
Reissue patents	165	166	205	227	282
Trade-marks	5,128	4,844	3,705	6,994	11,461
Labels	781	516	572	622	1,115
Prints	842	192	196	188	367
Total	51,436	46,078	43,203	47,409	53,317

Receipts from all sources, fiscal year ended June 30, 1921.

Applications, first fees	$1,260,443.77
Designs	76,154.50
Reissues	6,775.00
Trade-marks	158,123.00
Labels and prints	11,211.00
Final fees	754,271.50
Appeals	18,530.00
Oppositions	4,540.00
Disclaimers	270.00
Coupons	104,134.60
Drawings	6,514.74
Recording assignments	32,490.00
Copies of records	281,498.00
Unapplied	101.15
Official Gazette and other publications through Government Printing Office	22,645.00
Total	2,712,119.69

Expenditures, fiscal year ended June 30, 1921.

Salaries		$1,477,776.50
Scientific library		2,962.93
Investigating public use		441.26
Photolithographing: (Total, $255,000.00)		
Current issue		74,458.01
Reproductions		131,042.91
Foreign patents		5,602.50
Transportation of foreign exchange copies		1,618.25
Photographic printing		7,080.58
Photostat supplies		12,437.75
Dry mounts		2,760.00
Printing and binding:		
Official Gazette with indexes	$185,453.74	
Specifications	450,424.87	
Total for Gazette and specifications		644,878.61
Miscellaneous		35,528.15
International Convention for Protection of Industrial Property		750.00
Furniture and sundries		17,255.25
Stationery		11,013.35
Postage on foreign mail		864.87
Sundries		1,305.84
Total		2,427,776.76

Receipts and expenditures.

Receipts from all sources	$2,712,119.69
Expenditures	2,427,776.76
Total surplus	284,342.93
Increase in compensation	212,597.20
Net surplus	71,745.73
Total net surplus to date	8,376,769.29

Comparative statement.

June 30—	Receipts.	Expenditures.	Surplus.
1912	$2,084,069.50	$3,019,226.01	$74,823.49
1913	2,082,490.23	1,924,459.42	158,030.81
1914	2,199,988.95	1,959,122.52	240,866.43
1915	2,270,927.68	2,087,581.26	183,346.42
1916	2,284,030.46	2,061,656.79	222,373.67
1917	2,317,519.72	2,095,138.68	222,381.04
1918	2,103,660.56	*2,131,616.18	—27,955.62
1919	2,113,350.17	*2,178,578.30	—65,228.13
1920	2,615,697.33	*2,436,561.37	179,135.96
1921	2,712,119.69	*2,640,373.96	71,745.73

* Including increase in compensation (bonus).

Appellate work.

Interferences declared	1,951
Interferences disposed of before final hearing	1,340
Interferences heard	346
Interferences disposed of	317
Interferences awaiting decision	63
Oldest case awaiting action, February 3, 1921.	
Appeals to Examiners-in-Chief in interference cases	104
Ex parte appeals to Examiners-in-Chief	1,028
Total	1,222
Appeals in interference cases disposed of	179
Ex parte appeals disposed of	1,188
Total	1,367
Interference cases awaiting action	117
Ex parte cases awaiting action	412
Total	529
Oldest interference case awaiting action, January 7, 1921.	
Oldest *ex parte* case awaiting action, February 2, 1921.	
Appeals to Commissioner in interference cases	97
Appeals to Commissioner in opposition cases	29
Appeals to Commissioner in cancellations	7
Ex parte appeals to Commissioner	155
Interlocutory appeals to Commissioner	164
Ex parte appeals in trade-mark cases	48
Total	500
Petitions to Commissioner	3,031
Total	3,531
Cases disposed of by Commissioner:	
Appeals in interference cases	87
Appeals in opposition cases	18
Appeals in cancellation cases	6
Ex parte appeals	135
Interlocutory appeals	164
Ex parte appeals in trade-mark cases	25
Total	435
Petitions to Commissioner	3,013
Total	3,448
Appeals to Court of Appeals of the District of Columbia:	
Ex parte cases	23
Interference cases	55
Opposition cases	7
Cancellation cases	5
Total	90

During the year 89,779 applications for patents, including reissues and designs, and 163,564 amendments in pending cases were filed. The number of letters constituting the miscellaneous correspondence received and indexed was 325,195.

The number of printed copies of specifications of patents sold was 2,196,132, for which a revenue of $219,613.20 was received by the Office, this amount being an increase of $22,915.05 over the receipts of last year. A total of 1,082,985 copies of patents was shipped to foreign Governments. The whole number of copies of patents furnished for sale, for governmental use, and for foreign Governments was 3,653,040.

The Office received for record 36,186 deeds of assignment, containing on an average 453.29 words per deed.

Typewritten copies of 27,205,600 words, and photostatic copies of 19,395,200 words of records, aggregating 46,600,800 words were furnished at 10 cents per hundred words, for which the Office received $46,600.80, and for certifying to these copies $2,550.25 additional, making a total of $49,151.05. For 13,140 certified printed copies, etc., the Office received $11,054.40. For 182,023 photostatic copies of foreign patents, etc., the Office received $35,732.95, and for 77,833 photographic copies, $12,142.65. For all of this class of work the Office received a total of $108,081.05. The Office furnished to other departments, without charge, 1,059 photostatic copies, and made for its own use 7,345 copies; 10,522 photographic copies were made for its own use.

Respectfully submitted.

THOMAS E. ROBERTSON,
Commissioner of Patents.

The honorable the SECRETARY OF THE INTERIOR.

Patents Nos. 1,394,516 to 1,395,242.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

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Labels	76	No. 23,502 to No. 23,585,	inclusive.
Prints	25	No. 5,302 to No. 5,326,	inclusive.
Reissues	6	No. 15,311 to No. 15,316,	inclusive.
Total	1130		

Nolan Act—Reciprocity of Belgian Laws Recognized.

(Order No. 2,701.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., October 20, 1921.

Notice is hereby given that the laws of Belgium are recognized as affording to citizens of the United States privileges substantially reciprocal to the privileges accorded by the Nolan Act of March 3, 1921, (41 Stat. L., 1313,) and that consequently the privileges specified in said act will be extended to the subjects of Belgium, subject to the limitation that extensions will not be granted to relieve defaults falling under section 2 of the act for a longer period than seven years, five months, and nine days.

THOMAS E. ROBERTSON,
Commissioner.

Nolan Act—Limitations Removed and All Privileges Extended to Citizens of Austria.

(Order No. 2,702.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., October 21, 1921.

Notice is hereby given that Order No. 2678, recognizing the laws of Austria as conferring benefits reciprocal to the privileges accorded by the Nolan Act of March 3, 1921, is modified by removal of the limitation of extensions under section 2 of the act to a period of seven years and two months. Citizens of Austria are now entitled to all the privileges of the Nolan Act.

THOMAS E. ROBERTSON,
Commissioner.

Nolan Act—Reciprocity of German Laws Recognized.

(Order No. 2,703.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., October 21, 1921.

Notice is hereby given that the laws of Germany are recognized as affording to citizens of the United States privileges substantially reciprocal to the privileges accorded by the Nolan Act of March 3, 1921, (41 Stat. L., 1313,) and that consequently all the privileges specified in said act will be extended to its citizens.

THOMAS E. ROBERTSON,
Commissioner.

Interference Notice.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., October 7, 1921.

Isaac Newlin, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Simon Levi Company, 715 J Street, San Diego, Calif., for registration of a trade-mark and trade-mark registered April 4, 1911, No. 81,407, to Isaac Newlin of New York, N. Y., and having failed to obtain service upon the registrant, notice is hereby given that unless said Isaac Newlin, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

Adverse Decisions in Interference.

PATENT No. 1,355,098.

On September 22, 1921, a decision was rendered that John M. Weiss and Charles R. Downs were not the first inventors of the subject-matter covered by claims 1 and 2 of their Patent No. 1,355,098, subject, "Catalytic oxidation of anthracene," and no appeal having been taken within the time allowed such decision has become final.

Notice—Attorney's Address.

Many letters are being returned to this Office for lack of street address. The attorney's full post-office address should be given in every power of attorney. The prompt delivery of communications will thereby be facilitated.

Condition of Applications Under Examination at Close of Business October 18, 1921.

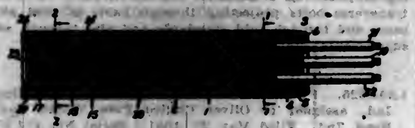
Room No.	Divisions, Examiners, and subjects of inventions. (Oldest new case, Oct. 22; oldest amended, Dec. 17.)	Oldest new application and oldest action by applicant awaiting other action. New.	Amended.	No. of cases in charge of examiner.
314	1. LOEFFLER, F. S., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Uniclers.	May 13	May 14	709
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Jan. 10	Feb. 22	1,708
175	3. RICH, WM. J., Electric Heating and Electrolysis; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Jan. 10	Dec. 24	893
234	4. MERRITT, A. D., Conveyors; Conveyors, Flight or Chain; Excavating; Hoisting—Head and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Nov. 12	Apr. 30	1,678
167	5. MAGNAB, J. P., Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Dec. 24	Jan. 24	980
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemistry; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Mar. 26	June 17	928
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes.	Mar. 25	Mar. 24	1,882
131	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Stove Furniture; Supports.	July 11	Aug. 25	884
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Nov. 12	July 13	1,660
235	10. MITCHELL, T. H., Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Land-Vehicle, Wheel and Axle Attachments; Motor Vehicles.	Apr. 6	July 15	1,170
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	June 15	July 25	895
222	12. PIERCE, P. F., Machine Elements.	Mar. 14	July 14	1,147
220	13. NIXON, O. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Nov. 12	Aug. 15	1,661
223	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Dec. 15	July 26	875
306	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Oct. 22	Feb. 16	1,757
111	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony.	Nov. 2	Feb. 12	1,729
307	17. RAFTER, G. S., Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Feb. 23	June 7	1,695
220	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Dec. 31	Feb. 24	1,797
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Dec. 17	Apr. 5	970
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Apr. 11	June 1	1,460
212	21. THURBER, W. L., Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Mar. 1	June 6	666
349	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making.	May 26	July 20	831
217	23. GROESBECK, W. D., Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Apr. 11	June 11	822
144	24. DARBY, J. J., Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines.	Jan. 10	June 6	1,053
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	July 28	Aug. 1	275
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime Mover Dynamo Plants.	Mar. 1	May 11	799
218	27. ANDERSON, L. S., Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus.	Apr. 3	June 1	1,527
225	28. BENSON, A. R., Internal-Combustion Engines.	Jan. 24	May 2	1,894
147	29. MORRIS, B., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Feb. 3	July 25	772
182	30. SULLIVAN, M. B., Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	Mar. 12	Aug. 1	1,391
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Nov. 11	Jan. 5	2,006
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange.	Dec. 9	July 5	1,006
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Apr. 1	May 16	763
304	34. SIMPSON, O. R., Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	Aug. 6	Aug. 12	306
87	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	July 11	Aug. 12	672
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	May 3	May 3	1,542
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers.	Feb. 16	Feb. 21	1,857
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Walls.	May 7	May 12	1,172
220	39. COWLES, A. W., Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Nov. 5	Jan. 12	1,980
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Jan. 10	Mar. 23	2,272
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels.	Apr. 30	Apr. 7	856
114	42. CUTTING, H. G., Electrical Conduits and Housings; Electric Signaling; Electric Lamps.	Dec. 15	Jan. 18	1,490
362	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Receptacles; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Dec. 20	Jan. 20	1,867
253	44. SHAFFER, C. H., Air-Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration Ships.	Jan. 10	Aug. 13	470
379	45. GILES, A. H., Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices.	Mar. 24	May 14	1,189
332	46. WOLCOTT, C. L., Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Mar. 11	May 6	1,136
264	47. BARKER, H., Brakes; Clutches and Power Step Control; Elevators; Fluid Pressure Brake and Analogous Systems.	Jan. 29	May 21	1,117
.....	48. ROEPKE, O. B., Electricity, Conductors; Electricity, General Applications.	Jan. 26	Dec. 17	1,837
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, JR.			
	Trade-Marks	Dec. 10	Aug. 1	2,624
	Designs	Jan. 3	Mar. 17	2,360
	Labels and Prints	Sept. 19	Oct. 7	235

Total number of applications awaiting action, excluding Trade-Mark division, 86,771; Trade-Mark division, 6,119.

PATENTS

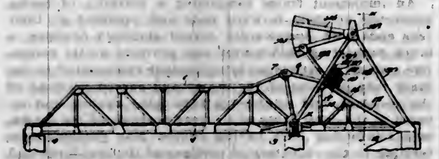
GRANTED OCTOBER 25, 1921.

1,394,518. ELECTRIC HEATING UNIT. CHARLES C. ABBOTT, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Oct. 30, 1919. Serial No. 334,454. 12 Claims. (Cl. 219—64.)



1. An electric heating unit comprising a metallic sheath and a plurality of helical resistance elements embedded in pulverulent heat-refractory insulating material compacted to a dense mass around said elements within the sheath.

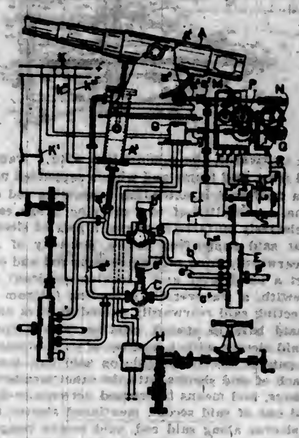
1,394,519. BASCULE-BRIDGE. HUGO A. F. ABT, Chicago, Ill. Filed Aug. 11, 1920. Serial No. 402,837. 8 Claims. (Cl. 14—36.)



1. A bascule bridge having a rotatable bridge leaf, a rotatable counterweight, said leaf and counterweight having axes remote from each other, a power device, a link for connecting said leaf to said power device, and a second and separate link for connecting the counterweight to the power device.

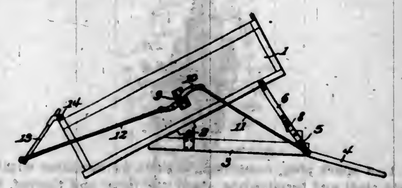
1,394,520. APPARATUS FOR THE ELECTRICAL LONG DISTANCE CONTROL OF THE VALVE-GEAR OF A HYDRAULIC GUN-POINTING GEAR. WALTHER AKEMANN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Nov. 19, 1920. Serial No. 425,105. 6 Claims. (Cl. 89—41.)

1. An electrical long distance control apparatus for the valve gear of a hydraulic gun pointing mechanism comprising the combination with a gun barrel, a sighting device, a transmitter, a receiver, means connecting said transmitter and said receiver for synchronous operation, a hydraulic gun pointing mechanism, means for supplying a hydraulic medium to said hydraulic mechanism, a system of valves for controlling said hydraulic medium, said system including a slide valve, a pair of quick acting valves, a stroke apparatus for controlling said slide valve, a circuit closing device, said circuit closing device comprising independently operatable sections, one section being connected to and operatable by the gun barrel, the other section being connected to and operated by said receiver, means connecting said stroke apparatus to said gun barrel, a controlling motor, an automatic switch, said automatic switch being electrically interposed between



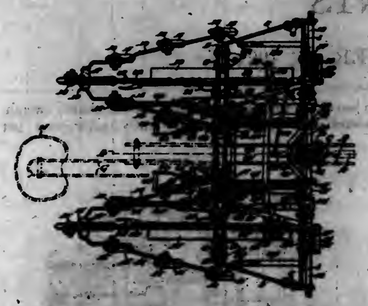
said circuit closing device and said controlling motor, and means connecting said controlling motor to said stroke apparatus.

1,394,521. END-GATE-OPERATING MECHANISM. GLEN AKERS, Roanoke, Va., assignor to Jennings Automatic Dump Body, Inc., Roanoke, Va., a Corporation of Virginia. Filed Dec. 1, 1919. Serial No. 341,793. 4 Claims. (Cl. 298—23.)



1. The combination with a dump body for trucks and the like having an end-gate pivoted at its upper edge to the rear end of said body, of an operating lever whereby said body may be actuated to move to and from inclined dumping position, a rocker arm pivoted intermediate its ends upon said body at a point intermediate the ends of the latter, a link connecting one end of said rocker arm to the lower portion of said end-gate, and a link connecting the other end of said rocker arm to said lever, whereby movement of said lever for actuating said body to rock to dumping position simultaneously swings said end-gate to and retains it in open dumping position, and vice versa.

1,394,522. CULTIVATOR. CHARLES J. ALLEN, Moorestown, N. J., and JOHN M. HOWARD, Media, and DAVID E. RICHIE, Lansdowne, Pa. Filed Oct. 27, 1920. Serial No. 419,844. 10 Claims. (Cl. 97—35.)



3. In a cultivator, the combination with a frame, axles supported from said frame and wheels supported upon said axles, of a transversely extending supporting rod adjacent said frame, a plurality of tool carrying gangs each comprising relatively movable members, a pair of sleeves movable about said supporting rod, a plurality of bars extending rearwardly from said supporting rod and operative to support a hand lever and a locking quadrant coöperative therewith, a transversely extending fulcrum bar rigidly connecting said rearwardly extending bars and maintaining said bars in spaced relation, means connecting each of said sleeves with a member of each of said gangs, a second pair of sleeves slidable on said bar, means connecting each of said sleeves with the other member of each of said gangs, and means interposed between each of said levers and one of said second mentioned sleeves for moving said sleeves along said rod, said means comprising a three armed lever fulcrumed on said fulcrum bar and a link connecting one of the arms of said lever with the adjacent sleeve and movable in two directions with respect thereto.

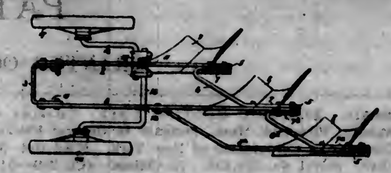
1,394,523. SPARK-PLUG. OGILBEE ALLEN, Jr., Chicago, Ill., assignor to Allen Specialty Company, Chicago, Ill., a Corporation of Illinois. Filed May 17, 1920. Serial No. 381,924. 2 Claims. (Cl. 123—169.)



1. A spark plug, comprising a shell, an insulator within said shell and terminating above the inner end thereof, so that an open chamber is left at the inner end of the shell, a terminal rod extending through said insulator and projecting beyond the inner end of the shell, and an inwardly tapering or conical metallic carbon-rejecting element surrounding said terminal, said element having greater heat conductivity than said terminal and having a highly polished surface.

1,394,524. PLOW. RUDOLPH J. ALTGELT, South Bend, Ind., assignor, to Oliver Chilled Plow Works, South Bend, Ind. Filed Dec. 29, 1919. Serial No. 348,065. 4 Claims. (Cl. 97—38.)

1. A plow structure comprising a plurality of plow beams, plow standards integral with the rear ends of said beams, a brace extending from one plow beam to another, said brace having integral extensions at its respective ends, said extensions lying directly against rear portions of two beams and the plow standards and constituting supplemental members of the latter, plow bases, and transverse bolts projecting through parts of said plow bases and through said standards and also through said supplemental standard members.

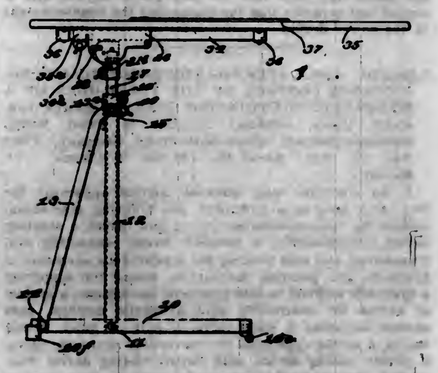


1,394,525. PLOW. RUDOLPH J. ALTGELT, South Bend, Ind., assignor to Oliver Chilled Plow Works, South Bend, Ind. Filed May 23, 1921. Serial No. 471,757. 1 Claim. (Cl. 97—2.)



An implement frame comprising a plurality of beams connected at their forward ends and provided at their rear ends with downwardly curved standard portions, a brace connecting said beams and provided at its respective ends with extensions lying against and secured to the inner rear portions of the beams and curved portions of the standard, and reinforcing bars lying against and secured to the outer faces of the rear portions of the beams, said reinforcing bars having curved rear portions conforming to the curvature of portions of the standards and secured to the same.

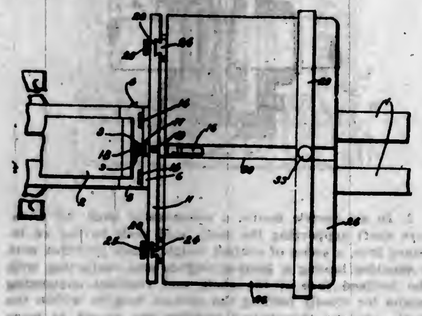
1,394,526. UNIVERSAL TABLE. EUGENE C. AMSDEN, Boston, Mass. Filed Aug. 3, 1920. Serial No. 401,007. 9 Claims. (Cl. 45—74.)



1. A universal foldable table, comprising a base, a standard mounted for folding movement with respect thereto, and a table top mounted for folding movement with respect to said standard, the mounting of said top with respect to said standard being constructed and arranged to permit said top to be located with the standard approximately under the longitudinal center thereof or adjacent one end thereof at will, and also to permit angular adjustment of said top about a longitudinal median line thereof.

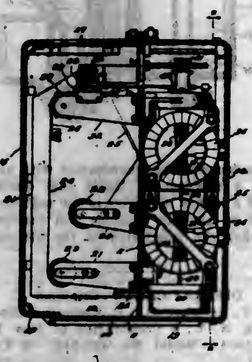
9. A universal foldable table comprising a base, a standard mounted for folding movement with respect thereto, a bracket embracing said standard, means for clamping said bracket to said standard, a table top pivotally connected to said bracket, an annular slot in said bracket, a collar in said slot and means attaching said collar to said standard.

1,394,527. MORTISING-MACHINE. ALLUWEE C. ANDREWS, Greenville, Tex. Filed Aug. 23, 1920. Serial No. 405,538. 6 Claims. (Cl. 144—78.)



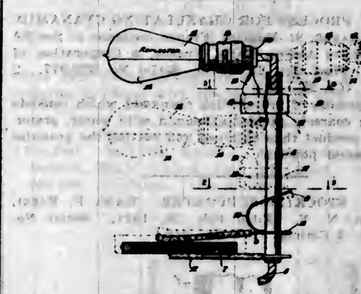
1. A mortising attachment for a machine having a bed or frame and a power-driven shaft spaced from and parallel to said bed or frame, said attachment comprising a bracket adjustable along the frame; a carrier adjustable to the bracket transversely of the frame; a hollow chisel on the carrier; a support adjustable on the carrier transversely of the frame; a table mounted for reciprocation on the support toward and away from the chisel; an abutment adjustable on the table toward and away from the chisel; means for reciprocating the table; means for retaining all of the aforesaid adjustable parts in adjusted positions; a boring bit in said chisel; and means for connecting said bit to said shaft.

1,394,528. ELECTRIC-METER CONSTRUCTION. DONALD JAMES ANGUS, Indianapolis, Ind. Filed May 20, 1918. Serial No. 235,573. 12 Claims. (Cl. 234—5.5.)



1. A meter, comprising a casing having a partition dividing it into front and rear compartments, stationary and movable meter elements mounted in said rear compartment, a record sheet and means for moving it mounted in said front compartment, a marking device coöperating with said record sheet and controlled by said movable meter element, a liquid chamber associated with said meter elements in said rear compartment, and a filling tube extending from said liquid chamber through said partition into said front compartment, and there being provided with a filling opening at a lower level than the top of said liquid chamber.

1,394,529. ELECTRIC-LAMP FIXTURE. LE ROY ARMITAGE, East Orange, N. J. Filed May 24, 1920. Serial No. 383,713. 3 Claims. (Cl. 240—52.)



1. An electric lamp fixture comprising a post, a jaw fixed to said post, a second jaw having a spring arm portion, said second jaw and its spring arm portion having openings slidably receiving said post, and a lamp socket adjustably carried by said post.

1,394,530. SYRUP-MEASURING DEVICE FOR BOTTLE-FILLERS. HARRY ALEXANDER, Jersey City, N. J., assignor to New York Bottlers' Supplies Manufacturing Co., Hoboken, N. J., a Corporation of New Jersey. Filed Feb. 17, 1921. Serial No. 445,626. 5 Claims. (Cl. 225—21.)



1. A syrup measuring device for bottle fillers embodying therein a valve casing having a vertical, axial opening extending therethrough, and a filling and a discharge head therein having the same degree of eccentricity with relation to said opening and opening upwardly of said casing, said filling head communicating with a source of syrup supply and said discharge head communicating with said axial opening in said casing, a horizontal disk seat carried by said casing and having ports therein registering with said heads respectively, a valve structure comprising a circular valve block seating upon said disk seat, and a plug

rotatably mounted in said axial opening, a measuring cup surmounting said block, said block having a passage therethrough communicating with said cup at one end thereof, and opening toward said disk at the other end thereof, and said plug having an opening therein one end of which is adapted to register with said discharge head and the other end of which is adapted to communicate with the discharge nozzle, means seating said block upon said valve seat, and means whereby said valve mechanism may be actuated to bring said passage into register with either, or neither, of said heads.

1,394,531. [WITHDRAWN.]

1,394,532. PROCESS FOR GRANULATING CYANAMID. LÉONCE BARRÉ, St.-Maurice, France, assignor to Société des Produits Azotés, Paris, France, a Corporation of France. Filed Oct. 24, 1919. Serial No. 332,977. 2 Claims. (Cl. 23—13.)

1. The process of granulating cyanamid which consists in treating coarsely divided cyanamid with water, granulating the product thus obtained and coating the granules with cyanamid powder.

1,394,533. STOCKING-SUPPORTER. EMMA F. BARRI, Brooklyn, N. Y. Filed Feb. 26, 1921. Serial No. 448,533. 2 Claims. (Cl. 24—246.)

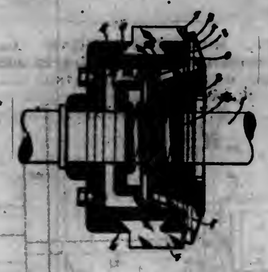


2. In a stocking supporter, the combination of an upper base member having a central pendent tongue in the lower portion of which is an opening and also having barrels at opposite sides of the upper portion of said tongue, a lower base member having an upwardly extending central tongue arranged in the said opening of the upper base member and hingedly connected thereto, a resilient clamping portion of greater length than width carried by and extending from the face of the lower base member, a broad and open bail having a lower cross bar to coöperate with the lower side of said clamping portion and also having inwardly directed trunnions journaled and secured in the said barrels of the upper base member, and a flexible tape arranged back of the base members and connected with the upper portion of the upper base member and the lower portion of the lower base member; said flexible tape being of a greater width than the tongues of the upper and lower base members and also of a greater width than the length of the resilient clamping portion on the lower base member.

1,394,534. HEAT TREATMENT OF ALUMINUM ALLOYS. EARL BLOUGH, Parnassus, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 30, 1917. Serial No. 204,540. Renewed Dec. 28, 1920. Serial No. 433,691. 25 Claims. (Cl. 148—11.)

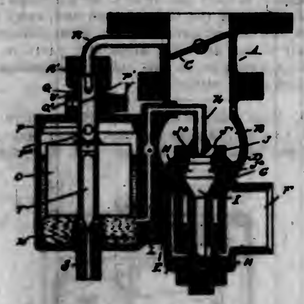
1. In a method of heat-treating aluminum alloy of the kind described to improve certain of its physical properties, especially tensile strength, the steps comprising subjecting the said alloy to heat at a temperature above about 460° C., and, without working the alloy, subjecting it for a period of time to heat at a lower temperature.

1,394,535. ELECTRIC MOTOR. HOWARD BERESH, St. Louis, Mo., assignor to The Advance Electric Company, St. Louis county, Mo., a Corporation of Missouri. Filed July 12, 1920. Serial No. 396,436. 7 Claims. (Cl. 172—279.)



2. In an electric motor, a commutator shell, an armature shaft supporting the shell, said shell having an inclined face, a series of contact weights each provided with a shoulder having a beveled surface and contacting with the inclined faces of the shell, and resilient supporting means for closely holding the contact weights within the shell, whereby the contact weights are caused to move axially and radially.

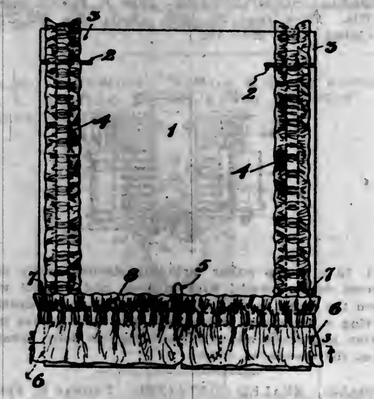
1,394,536. CARBURETER. WILFRED O. CHASE, Detroit, Mich. Filed May 18, 1916. Serial No. 98,317. 17 Claims. (Cl. 261—46.)



1. In a carbureter, the combination with an air suction conduit, of a downturned liquid fuel discharge nozzle therein, and a hollow air valve below said nozzle adapted to be lifted by the air pressure and coacting with the nozzle to vary the restriction of the air passage about said nozzle.

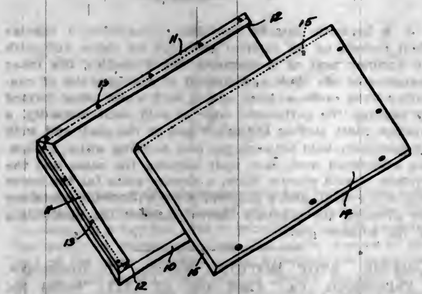
1,394,537. DISPLAY-CARD. CHARLES C. COHN, New York, N. Y., assignor to I. B. Kleinert Rubber Company, New York, N. Y., a Corporation of New York. Filed Feb. 9, 1921. Serial No. 443,542. 2 Claims. (Cl. 211—34.)

1. An article of the class described comprising a card having a slot at one of its ends to receive folded portions of an article of wearing apparel, said card also having slits at its opposite end with shoulder portions between



said slits and the edge of the card to enter into looped shoulder straps on the article of wearing apparel.

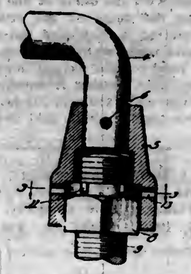
1,394,538. DRAWING-BOARD. JOSEPH F. COPELAND, Drexel Hill, Pa. Filed May 24, 1920. Serial No. 383,970. 6 Claims. (Cl. 45—131.)



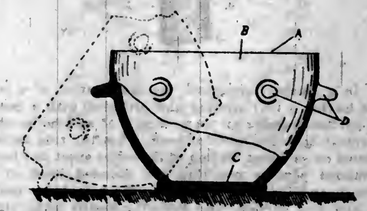
5. A drawing board comprising a base provided upon a plurality of sides with a fixed marginal raised portion or rim the outer faces of which are flush with the outer faces of said base at least one side of said base being free of a raised portion to permit insertion of a mount, a fibrous mount removably fitted upon said base in abutting relation with said rim and means for securing said mount to place.

1,394,539. WRENCH. FRANK DANIELSON, Chicago, Ill. Filed June 1, 1920. Serial No. 385,556. 3 Claims. (Cl. 81—121.)

1. The combination with a bolt provided with a transverse opening and a nut provided with paired openings adapted to be alined therewith, of a socket wrench provided with means to indicate when one of said pairs of openings is alined with the opening in said bolt.

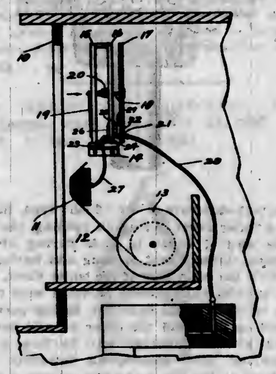


1,394,540. MIXING-BOWL. ALEXANDER S. DIACK, Detroit, Mich. Filed July 17, 1920. Serial No. 396,998. 3 Claims. (Cl. 65—61.)



1. A mixing bowl having a base rim and a plurality of projections from its side, the rim and any two adjacent projections forming supporting points for maintaining the bowl in stable equilibrium when tilted upon its side.

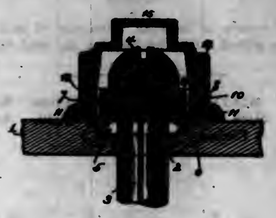
1,394,541. TRANSPOSING DEVICE FOR PNEUMATIC MUSICAL INSTRUMENTS. LOUIS DE S. DIBERT and ROBERT C. WINTER, Philadelphia, Pa. Filed June 15, 1920. Serial No. 389,236. 7 Claims. (Cl. 84—57.)



7. In an automatic musical instrument the combination of a tracker-bar and a pneumatic action with a transposing device comprising a fixed member and a rotatably mounted

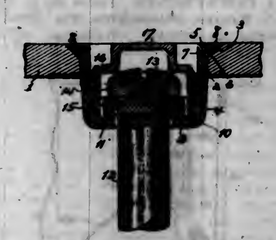
member each provided with equally spaced air ducts disposed upon an arc of a circle, tubes connecting the ducts of the tracker-bar with the ducts of one of said members, tubes connecting the ducts of the other member with said pneumatic action, a cushioned rod supported by the fixed member and upon which the rotatable member is fixed, a pointer fixed to said rod for indicating the extent to which the movable member is rotated and means between said movable and fixed member for relatively securing said members together with said ducts in register.

1,394,542. STAYBOLT STRUCTURE. JOHN ROGERS FLANNERY and ETHAN I. DODDS, Pittsburgh, Pa., assignors to Flannery Bolt Company, Pittsburgh, Pa. Filed Dec. 7, 1920. Serial No. 428,967. 2 Claims. (Cl. 85—1.5.)



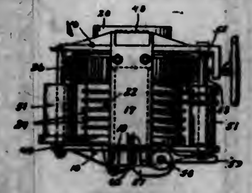
1. In a staybolt structure, the combination of a boiler sheet having a bolt opening and provided with a beveled seat portion forming an integral part of said boiler sheet, a staybolt having a rounded head, a bearing ring movably mounted on said seat portion of the boiler sheet and having a rounded portion receiving the rounded head of the staybolt, and inclosing means for the bolt head, bearing ring and seat portion, said inclosing means being rigidly secured to the boiler sheet around said seat portion.

1,394,543. STAYBOLT STRUCTURE. JOHN ROGERS FLANNERY and ETHAN I. DODDS, Pittsburgh, Pa., assignors to Flannery Bolt Company, Pittsburgh, Pa. Filed Dec. 7, 1920. Serial No. 428,968. 1 Claim. (Cl. 85—1.5.)



In a staybolt structure of the "flush" type, the combination with a boiler sheet having an opening, the outer portion of the wall of which is made flaring, of a bearing sleeve passing through said opening and having its outer end flush with the outer face of the boiler sheet, said sleeve having an annular enlargement provided with two beveled faces, one of which rests upon the flaring portion of the wall of said opening and the other of said beveled faces coöperating with said flaring wall to form a groove, a weld occupying said groove, an inwardly projecting annular flange at the inner end of said sleeve and having a beveled face, a staybolt provided with a head having a rounded portion, a bearing ring movably mounted on the beveled annular flange of the sleeve and having a rounded portion on which the rounded portion of the bolt head is movable, and a closure within said bearing sleeve and having its outer end flush with the outer face of the boiler sheet.

1,394,544. STUMP-PULLER. JOHN K. FLYNN, Superior, Wis. Filed June 29, 1920. Serial No. 392,723. 3 Claims. (Cl. 254—182.)



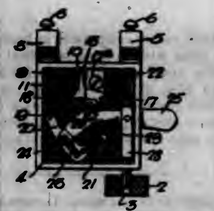
1. In a stump puller including simultaneously driven spaced drums formed with grooves, and a cable wound upon the drums, a dolly arranged adjacent one drum and having a peripheral groove mating with a groove in the latter, and screw means for shifting the dolly toward or from the associated drum.

1,394,545. SEALED CONTAINER. THOMAS H. FRENCH, Pacific Grove, Calif. Filed Sept. 24, 1919. Serial No. 326,030. 3 Claims. (Cl. 220—82.)



3. A hermetic display container comprising a tubular shell formed on its interior adjacent its upper end with an annular seat of a diameter not exceeding the inner diameter of the shell and formed of spaced walls of concavo-convex cross section, one of said walls being formed by bending the peripheral edge of said shell inwardly, a window plate closing the upper end of the shell and with its periphery held between the seat forming walls, a packing associated with each wall between the same and the surface of said closure plate, a closure plate for the lower end of the shell, and a follower plate within the container for pressing the contents thereof against the under face of the window plate.

1,394,546. STOP-MOTION. SAMUEL H. GOLDSTEIN, Philadelphia, Pa. Filed Aug. 15, 1921. Serial No. 492,384. 5 Claims. (Cl. 19—25.)



1. The combination in a stop motion of a casing; a bolt slidably mounted therein; a setting lever pivoted

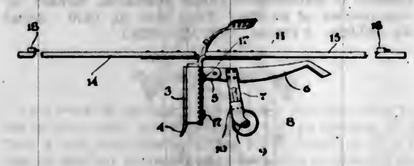
to said bolt and projecting outside of said casing; an arm pivoted at one end to the casing and having a longitudinally extending slot for the reception of a projection on said setting lever; a spring operative on the lever and tending to project the bolt; a hook coöperative with the arm for holding it with the setting lever and bolt in a set position; with a thread-controlled finger operative to move the hook to an arm-releasing position.

1,394,547. TIRE-MOLD. WILLIAM E. GREBE, Syracuse, N. Y. Filed Feb. 7, 1920. Serial No. 357,067. 3 Claims. (Cl. 18—38.)



1. A tire mold comprising opposing sections confining a mold cavity for receiving a rough tire casing, one of the sections being formed with means for conducting a fluid under pressure to the mold cavity directly in contact with the inner face of the casing to exert an internal pressure on the casing in the mold cavity, and means located outside of the mold cavity for preventing the escape of such fluid from the mold cavity, substantially as and for the purpose described.

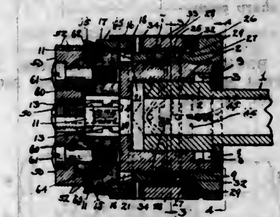
1,394,548. ROAD-DRAG. JOHN ANDREW GUTRIDGE and JAMES AYNUB WOOD, McLoud, Okla. Filed Apr. 21, 1920. Serial No. 375,527. 3 Claims. (Cl. 37—5.)



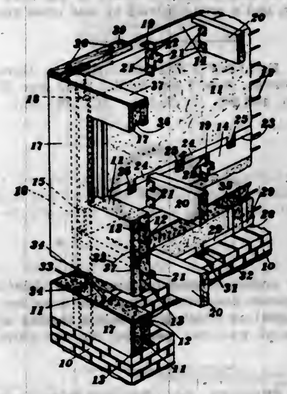
1. A device of the character specified comprising a cutting blade, a tongue connected with each end of the blade to swing on a vertical axis to permit the tongue to extend forwardly or rearwardly from the blade, means at each end of the blade for raising and lowering the same, each of the said means comprising a handle pivoted to the blade near its top and having a standard depending therefrom, a caster wheel connected with each standard, and a reinforcing beam of wood secured to the rear face of the blade, the lower edge of the blade curving forwardly and being sharpened to form a cutting edge.

1,394,549. SELF-OPENING DIE-HEAD. WILLIAM C. HAFEMEISTER, Cleveland, Ohio, assignor to The Metal Parts Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 19, 1918. Serial No. 258,862. 11 Claims. (Cl. 10—95.)

1. In a device of the character described, the combination of a body; chaser dies mounted in said body; a ring movable longitudinally of said body and operatively connected with said dies variously to position the same; a second ring rotatably mounted on said body, said first and second rings having coöperative cam-faces whereby rotation of said second serves to move said first longitudinally of said body, and a cylindrical casing surrounding both rings and being fixedly attached to said second ring and having positioning connection with said first ring.



1,394,550. CONCRETE BUILDING-SLAB. MILTON B. HENRICK, Omaha, Nebr. Filed Sept. 22, 1920. Serial No. 412,037. 6 Claims. (Cl. 72—16.)



2. A slab for building construction comprising a cementitious body, a top reinforcement molded in the upper edge of the slab and having recesses therein and said body having therein corresponding recesses for the reception of the ends of girders of a building, and a bottom reinforcement embedded in the lower edge of the slab and having projections adapted to interlock with the opposite sides of the top reinforcement of the subjacent slab.

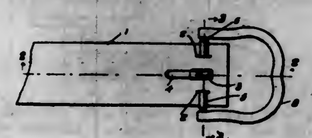
1,394,551. AERIAL TOY PROJECTILE. THOMAS G. HITT, Seattle, Wash. Filed Mar. 24, 1920. Serial No. 368,376. 1 Claim. (Cl. 46—46.)



In an aerial toy projectile, a hollow cylinder with one end open and adapted to be rested upon a flat surface, a

wall disk closing the other end of the cylinder, a hollow cone shaped cap formed integral with the cylinder and surmounting the disk, said cap terminating at its outer end into a sharp point.

1,394,552. BUCKLE. HERMAN HOSSCHEN, Freeport, Minn. Filed May 11, 1920. Serial No. 380,449. 4 Claims. (Cl. 24—178.)



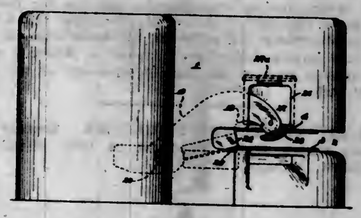
1. A buckle comprising a cross pin adapted to be inserted through a strap, a body having parallel portions provided with threaded sockets to receive the ends of the pin and draw said parallel portions of the body toward one another, and a prong carried by said cross pin.

1,394,553. HOLLOW CASTING. HERMAN HOFFER and JACOB HOFFER, New York, N. Y. Filed Apr. 23, 1921. Serial No. 463,865. 3 Claims. (Cl. 18—45.)



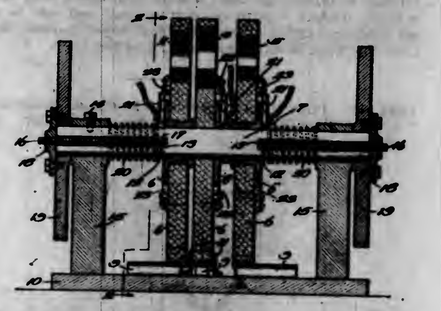
1. As an article of manufacture, an artificial product of the character designated, comprising a hollow core of fibrous material on which is imposed a casting of plastic composition of wax and paraffin, for the purpose described.

1,394,554. PRESSER-ROLLER-RELEASING DEVICE. GREENE CARLTON HOSCH, St. Louis, Mo. Filed Sept. 23, 1920. Serial No. 412,220. 9 Claims. (Cl. 33—133.)



1. In a machine of the character described having a measuring roller, the combination of a presser roller, a movable presser roller above the measuring roller frame carrying the presser roller, a spring mounted to exert force on the presser roller frame and press its roller against the measuring roller, detent means coöperating with the presser roller frame to hold the same raised with the presser roller away from the measuring roller, and an actuating member coöperating with the detent means to inhibit temporarily the action of the spring on the presser roller frame to permit the presser roller frame and its roller to descend by gravity onto the measuring roller.

1,394,555. ELECTRICAL TRANSFORMER. HARRY L. ING, Springfield, Ill. Filed Oct. 6, 1920. Serial No. 415,083. 8 Claims. (Cl. 171—119.)

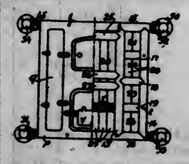


1. An electrical transformer comprising two relatively movable members, one including a plurality of coils of differing numbers of turns and the other including a coil adapted to be brought into and out of its full inductive relation with any coil of the first member by relative movement between the members.

1,394,556. PROCESS OF MAKING NITRODIAZO COMPOUNDS. WHITNEY B. JONES, Newark, N. J., assignor to Butterworth-Judson Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 6, 1920. Serial No. 363,759. 2 Claims. (Cl. 23—24.)

1. Process of making a nitro-diaso compound, comprising nitrating a metallic salt of 1-diaso-2-oxy-naphthalene-4-sulfonic acid.

1,394,557. HEATER FOR HOT-PIPE SYSTEMS. WALFRID KARLSSON, Wigbyholm, near Stockholm, Sweden, assignor to Aktiebolaget Tubus, Stockholm, Sweden, an Organization of Sweden. Filed May 20, 1920. Serial No. 383,026. 5 Claims. (Cl. 122—225.)

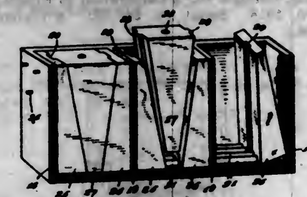


1. A heater for pipe systems, consisting of a set of members assembled to form a furnace in the center and a set of communicating flues on each side of the furnace, each member consisting of four vertical pipes and two horizontal pipes of at least the same length as the member and one or more pairs of short horizontal pipes connecting the vertical pipes into pairs, the short horizontal pipes of the intermediate members being more in number than those of the front and rear members so as to form communicating flues, the uppermost of which communicates with the furnace and the lowermost with the chimney or outlet.

1,394,558. PROCESS AND APPARATUS FOR THE MANUFACTURE OF RUBBER JARS. LOUIS E. KLUG, Indianapolis, Ind., assignor to Rub-Tex Products, Inc., Indianapolis, Ind., a Corporation of Indiana. Filed Dec. 29, 1920. Serial No. 433,746. 17 Claims. (Cl. 18—19.)

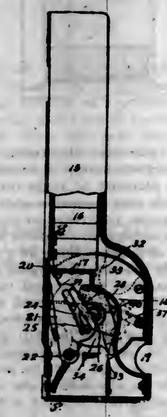
1. The process of making a partitioned jar, which consists in building up the bottom and walls of the jar of

sheets of suitable rubber material, putting one or more partitions of rubber material in place with their edges set-



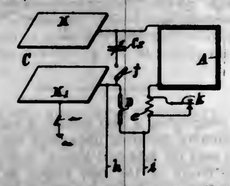
ting in grooves in the bottom and walls, and subjecting the material to heat and pressure to produce coalescing of the partitions, walls, and bottom where they meet.

1,394,559. COIN VENDING-MACHINE. EDWARD J. KOEHLER, Bronxville, N. Y., assignor to Messinger Automatic Sales Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 18, 1916. Serial No. 217,797. 1 Claim. (Cl. 194—93.)



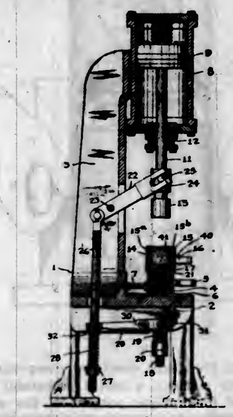
In a vending machine, a coin slot, a rotatable disk having a coin notch in its periphery and an opening in its face, a coin detector bar associated with said disk, a detent on said bar for engaging said opening to lock the disk, a projection on the bar for engaging a proper coin, thereby holding the bar out of locking position and a protecting plate between the bar and the disk and having a wing portion covering the detector bar between the detent and the projection.

1,394,560. APPARATUS FOR TRANSMITTING RADIANT ENERGY. FREDERICK A. KOLSTER, Washington, D. C. Filed Nov. 27, 1916. Serial No. 133,520. 28 Claims. (Cl. 250—17.)



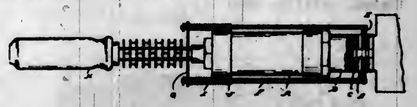
1. A radiator comprising a closed radiating circuit, an inductance in said circuit, and a capacity in said circuit comprising large separated areas, said capacity areas and said inductance serving as radiating elements, the distributed capacity and inductance of said circuit being substantially nil.

1,394,561. DIE-CASTING MACHINE. JOHN C. KOPP, Bellevue borough, Pa. Filed Oct. 14, 1920. Serial No. 416,876. 22 Claims. (Cl. 22—68.)



8. In a die-casting machine, the combination with a die, a receptacle and a plunger, of means for automatically lifting the receptacle to break the sprue when the plunger rises.

1,394,562. SOLDERING-IRON. FRANK KUHN, LAWRENCE H. THOMAS, and JULES G. SPIESS, Detroit, Mich., assignors to American Electrical Heater Company, Detroit, Mich., a Corporation of Michigan. Filed June 11, 1920. Serial No. 388,231. 3 Claims. (Cl. 113—106.)



1. The combination with a soldering tool having an annular edge portion for engaging the work, a transversely extending slot, and a central recess within said annular portion connecting with said slot, of a member in said central recess, a cross member connected therewith passing outward through said slot, a pair of rods engaging said cross member and extending longitudinally of the tool, and means for resiliently pressing upon said rods to hold said central member against the work during the withdrawal of the tool.

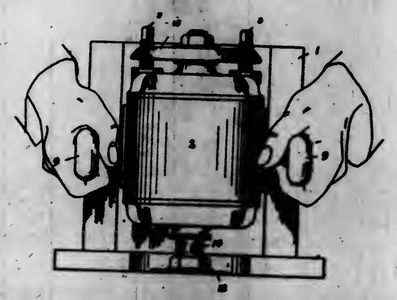
1,394,563. TELEPHONE INSTRUMENT. HUBERT A. LEISE, Meriden, Conn. Filed May 27, 1920. Serial No. 384,722. 1 Claim. (Cl. 179—115.)



A telephone instrument including a casing, a diaphragm-supporting shell mounted therein and formed in its outer

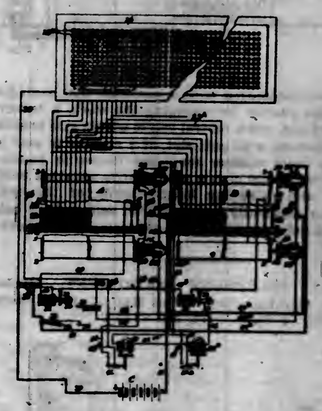
edge with a flange and with a notch opening through said flange, a single disk diaphragm resting upon the said flange and closing the open end of said notch.

1,394,564. PORTABLE POWER DEVICE. CHARLES F. LENDGREN, Duluth, Minn. Filed Sept. 3, 1920. Serial No. 408,042. 2 Claims. (Cl. 144—119.)



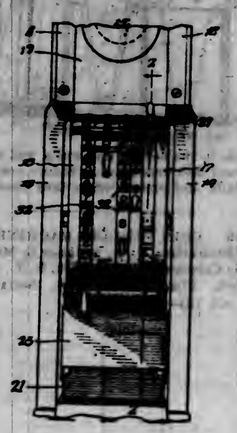
1. A device of the class described comprising an L-shaped supporting member, a motor adjustably mounted upon the face of the upright portion of the supporting member, a cutter carried on the shaft of the motor and operating substantially flush with the face of the horizontal portion of the supporting member and projecting beyond one side of same, and a handle adjacent each side of the motor fixed to the upright portion of the supporting member and extending outwardly in the same direction with the horizontal portion of the supporting member, substantially as described.

1,394,565. ELECTRIC SIGN. JOHN E. LONG, Hot Springs, Mont. Filed Aug. 24, 1917. Serial No. 187,989. 13 Claims. (Cl. 177—350.)



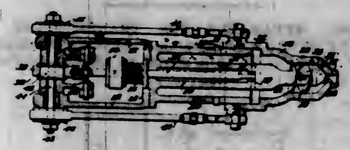
1. A light-board having lamps arranged thereon, and duplicate means for controlling the illumination of the lamps, said means including alternatively operative lamp circuit controlling sheets, with coöperating means for automatically stopping and starting the sheets.

1,394,566. PERFORATING-MACHINE. WALTER H. LEMAN, Chicago, Ill., assignor to The American Perforator Company, Chicago, Ill., a Corporation of Illinois. Filed July 10, 1918. Serial No. 244,162. 8 Claims. (Cl. 101—26.)



8. A perforating machine comprising a reciprocable head, spaced arms carried thereby, a journal extending between said arms, a plurality of rings rotatably mounted on said journal, each ring having a series of groups of punch-receiving openings, positioned to be turned to bring a desired group of openings into register with a group of punches, said group of punches being on a different side of said journal from the side on which said head is located, and a plurality of handles, one secured to each ring, and operable between said reciprocable head and said set of punches, said series of groups of punch-receiving openings occupying materially less than the full circumference of the rotatable rings, whereby the movement of the handle between the reciprocable head and the group of punches will be sufficient to bring any desired one of the groups of punch-receiving openings into register with the group of punches.

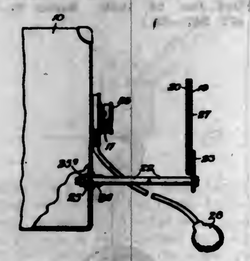
1,394,567. HYDROCARBON-BURNER. JOHN W. F. MACDONALD, Brighton, Mass., assignor to The Merrill Process Company, a Corporation of Massachusetts. Filed Sept. 24, 1918. Serial No. 255,537. 13 Claims. (Cl. 158—74.)



1. A burner comprising a fuel nozzle, a valve therefor, an air nozzle slidably mounted upon said fuel nozzle and forming a valve seat for said fuel nozzle, regulating means connected respectively to the fuel nozzle valve and the air nozzle operable to adjust simultaneously said fuel valve and said air nozzle relatively to said fuel nozzle and to maintain a predetermined correlation between the

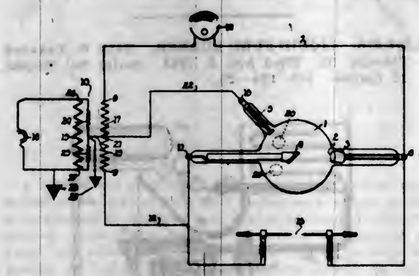
amount of fuel and air delivered throughout the range of said adjustment, whereby substantially perfect combustion of the fuel may be obtained irrespective of the amount of fuel delivered.

1,394,568. CAMERA ATTACHMENT. LOUIS MANDEL, Chicago, Ill. Filed Oct. 25, 1920. Serial No. 419,185. 4 Claims. (Cl. 88—24.)



1. In combination, a camera embodying a lens, a support for a negative or the like connected with the camera and movable into and out of a predetermined position in front of the lens, the said support having an opening therein in alinement with the said lens and into which opening the said lens is adapted to project to permit the said support to be moved into close proximity to the camera body or box.

1,394,569. INCREASING THE EFFICIENCY OF X-RAY TUBES. WILLIAM MEYER, Chicago, Ill. Filed Aug. 19, 1918. Serial No. 250,425. 8 Claims. (Cl. 250—84.)



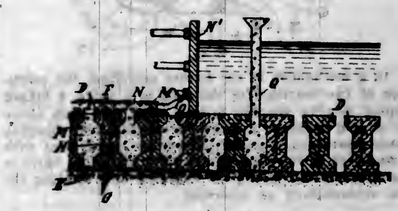
1. In combination, a source of current comprising a winding, said winding having end terminals and having an intermediate tap, an X-ray tube having an anti-cathode, an electrode constituting the cathode for said anti-cathode, and an anode, means for connecting the terminals of said winding to said cathode and said anti-cathode respectively and means for connecting the anode to the intermediate tap.

1,394,570. INNER FORM FOR CONCRETE-PIPE MOLDS. JOHN C. MITCHELL, East Orange, N. J. Filed Sept. 21, 1920. Serial No. 411,721. 7 Claims. (Cl. 25—128.)

1. A means for reducing the circumference of the inner form for molded concrete pipes comprising, in combination, a sheet metal form split longitudinally, a hinged section adapted to swing inwardly from one edge of the same, projections from the two edges and slotted plates with which such projections engage adapted to draw said projections and hence the edges of the form together after the hinged section of the same has been swung inwardly and when the slotted plates are moved longitudinally.



1,394,571. SUBAQUEOUS STRUCTURE AND METHOD. DANIEL B. MORAN, Mendham, N. J. Filed Mar. 22, 1916. Serial No. 85,801. 2 Claims. (Cl. 61—64.)

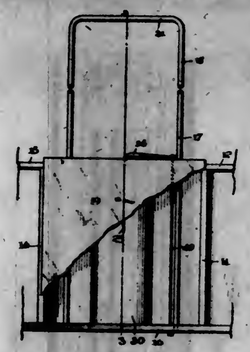


1. A method of building concrete dry docks or the like which comprises molding above ground concrete floor girders adapted to extend across the width of said dock, sinking said molded girders separately through the water into place and allowing them to come to independent bearings on the underlying support, depositing mass concrete through the water in plastic condition between said girders to firmly unite them and to distribute the strains among them jointly so as to make a continuous floor structure, and building up the side walls of the dock on the ends of said girders.

1,394,572. BLACKBOARD. CALVIN B. NEIL and ROBERT R. BOGGS, Fannettsburg, Pa., assignors of one-third to Juell M. Jones, Fannettsburg, Pa. Filed Dec. 31, 1920. Serial No. 434,258. 7 Claims. (Cl. 35—16.)

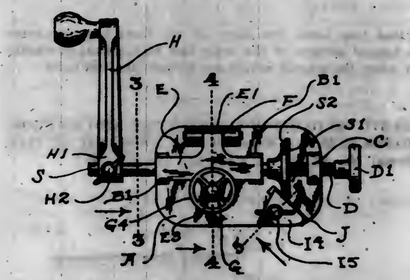
2. A blackboard comprising a frame having a compartment adapted for the reception of writing articles, a guide

having branches extending through said compartment, a slab having brackets slidably connected to the branches



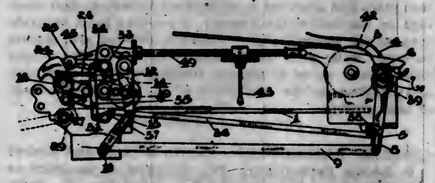
of said guide, and a weight connected to said slab for elevating the same.

1,394,573. VALVE-FACING TOOL. JOHN W. NIPPER, Knoxville, Tenn. Filed July 9, 1920. Serial No. 394,963. 6 Claims. (Cl. 82—1.)



1. In a mechanism of the nature described, the combination of two bearings for the stem of a valve, a hinged clamping member adapted to bear upon said stem above each of said bearings, a screw for forcing said clamping member downward, a cutter located for engagement with the seat face of the head of the valve while the valve is being rotated, and means for engaging and rotating the valve, substantially as described.

1,394,574. SHEET-FEEDING MECHANISM FOR PAPER AND THE LIKE. ERNEST E. PALMER, Toronto, Ontario, Canada, assignor to Toronto Type Foundry Company, Limited, Toronto, Ontario, Canada. Filed Nov. 29, 1920. Serial No. 427,096. 9 Claims. (Cl. 271—37.)



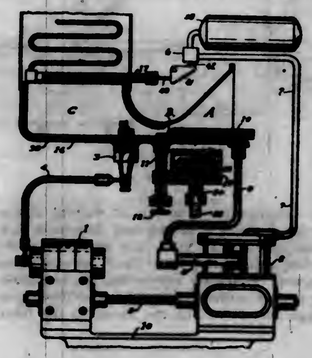
1. In sheet feeding mechanism, the combination of a cut-out rack; an oscillatable cam; a cut-out pawl pivoted on said cam adapted to engage the rack; means normally holding said pawl out of engagement with the rack; a pivoted detector finger operable by the passage of a sheet of paper and adapted to cause the engagement of the pawl with the rack; a vertically movable combing wheel; means operable by said cam for moving the combing wheel to its inoperative position; and yielding means tending to return the cam to its normal position.

1,394,575. SUSPENSION MEANS FOR ELECTRIC-LIGHTING FIXTURES. IRA L. PARK, Washington, D. C. Filed Jan. 28, 1920. Serial No. 354,627. 5 Claims. (Cl. 247—36.)



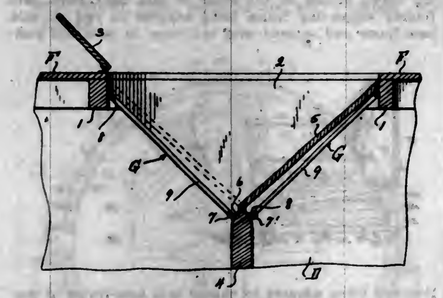
2. A suspension chain for electric lighting fixtures, comprising hollow links interlaced with each other, each link being composed of two sections separable from each other at its upper and lower part where it crosses the adjacent link, means for holding the sections together and an eyelet held by and between the meeting ends of the sections of the links, substantially as described.

1,394,576. LIQUID-FUEL BURNER. HALE W. PARRISH, Chicago, Ill. Filed Apr. 3, 1918. Serial No. 226,365. 15 Claims. (Cl. 158—29.)



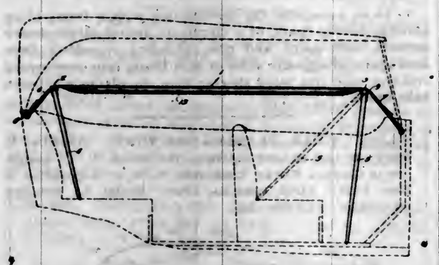
1. In a fuel burner, a fire-box, a spark plug and a fuel atomizer disposed in operative relation thereto, an electric generator operatively connected to the spark plug, an air-driven motor for driving the generator, and connections between the motor and the atomizer for utilizing the exhaust of the motor in the atomizer.

1,394,577. DUMP FOR GRAIN-ELEVATORS AND THE LIKE. HENRY A. PETERSON, Atwood, Kans. Filed Apr. 2, 1921. Serial No. 458,110. 3 Claims. (Cl. 130—19.)



1. In combination with a grain dump having a top opening, a dividing wall within the dump terminating below the top thereof, oppositely directed hook members carried by the upper portion of the dividing wall, and grid members bridging the space between the upper portion of the dividing wall and the ends of the top opening of the dump, the lower marginal portions of the grid members being engaged with the hook members.

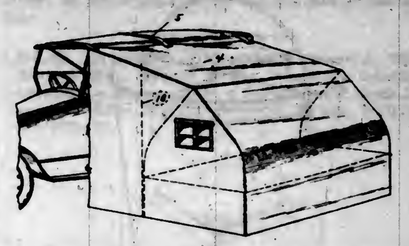
1,394,578. COT. ISAAC S. PURCELL, Oak Park, Ill., assignor to Tentobed Company, Chicago, Ill., a Corporation of Illinois. Filed May 8, 1919. Serial No. 295,687. 1 Claim. (Cl. 5—72.)



A folding cot comprising end rails, a bed bottom connected at its ends to said rails respectively, a pair of eye bolts secured to each end rail, flexible tensioning elements secured at one end to respective eye bolts and adapted to have their other ends secured to fixed parts to initially tension the bed bottom, a supporting leg pivoted on each eye bolt and the supporting legs associated with each end rail being held in engagement with a support and in downward convergence by the initial tensioning of the bed bottom by said flexible elements and operable by movement thereof to a position of parallelism to increase the tension of said bed body and flexible elements and dispose said bed body at a greater elevation with respect to the support.

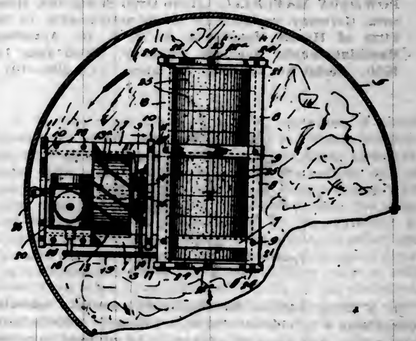
1,394,579. TENT. ISAAC S. PURCELL, Oak Park, Ill., assignor to Tentobed Company, Chicago, Ill., a Corporation of Illinois. Filed July 14, 1919. Serial No. 310,795. 9 Claims. (Cl. 135—1.)

8. An automobile tent including a cot, a frame having a ridge pole supported by the cot, a tent roof supported by the automobile and by the ridge pole and having a wall extending over the outer side of the frame and cot, a curtain depending from the tent roof and spaced from the cot to afford an anteroom between the cot and the automobile and to also screen off vision from the automobile, a screen depending from the tent roof, end walls secured to



the tent roof and forming complete end closures for the frame and the ante-room, and detachable means to secure the screen ends to said end walls.

1,394,580. COMPRESSING MECHANISM. GLENN N. RAGER, near Roann, Ind. Filed Apr. 11, 1919. Serial No. 289,341. 9 Claims. (Cl. 100—56.)



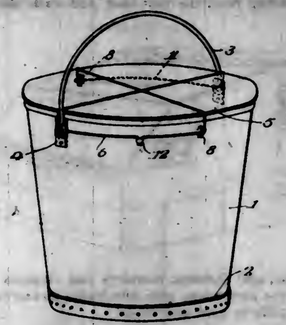
1. A loose packer of the type indicated for use within a laterally bounded area, having a packing roller and a traction means of which the normal path of the movement is at an angle to the axis of said roller and tangential to the area.

8. In a machine of the character described, a pair of spaced bars, bearing hangers provided at their upper ends with openings to detachably receive the bars, and serving to connect the bars, said bearing hangers being provided at their lower ends with bearings, a shaft having its ends removably held within said bearings, a packing roller carried by the shaft, a second pair of spaced bars extending transversely of the first pair and attached thereto, bearing hangers provided at their upper ends with openings to removably receive the second named bars and provided at their lower ends with bearings, a shaft having its opposite ends removably held within the second named bearings, a driving roller carried by the second named shaft, a motor carried by the second pair of bars, and driving connecting means between the motor and the driving roller.

1,394,581. COVER-SEALING MEANS. WILLIAM H. RAY, Monroe, Mich., assignor to The Weis Fibre Container Corporation, Monroe, Mich., a Corporation of Michigan. Filed Nov. 5, 1919. Serial No. 335,790. 8 Claims. (Cl. 217—89.)

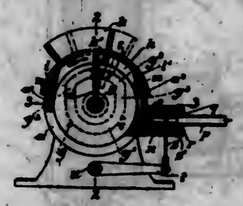
1. In combination with a container having a removable cover, sealing means comprising wire stretched across the top of the cover, a handle having attaching means therefor, and instrumentalities including said attaching means for

connecting the wire to the sides of the container, below the edges of the cover, so that only the wire extends over



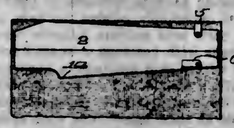
the cover, and whereby the wire is stretched straight across the cover from one side of the pail to the other.

1,394,582. FILLING-MACHINE FOR DOUGHY AND POWDERY MATERIAL. HUGO OTTO SCHILLING, Hamburg, Germany, assignor, by mesne assignments, to the Firm of Hasen Metallwerk G. m. b. H., Abteilung Maschinenfabrik, Hamburg, Germany. Filed June 11, 1920. Serial No. 388,886. 8 Claims. (Cl. 226—107.)



1. A filling machine for doughy and powdery material comprising a cylindrical casing, a rotatable radially movable piston, and a hopper adapted to be adjusted to predetermine the amount to be filled.

1,394,583. PATTERN FOR MAKING CLOTHING. GEORGE E. SMEAK, Chicago, Ill., assignor to Alfred Decker & Cohn, Inc., Chicago, Ill., a Corporation of Illinois. Filed Nov. 3, 1919. Serial No. 335,293. 6 Claims. (Cl. 33—14.)



1. As an article of manufacture, a pattern for use in cutting cloth, said pattern being provided with means for assisting the user in properly positioning the pattern on the cloth, having a longitudinal center line and side edges, the pattern being wider at one end than at the other, and said means comprising one or more gages pivoted on the narrower end portions of the pattern, the length of each gage being such that when extended its outer end is on a line which represents the maximum width of the pattern at one side of said center line.

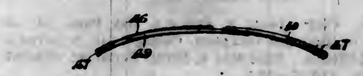
1,394,584. FOLDING-BED COUCH. MORRIS SHERMAN, St. Louis, Mo. Filed May 9, 1918. Serial No. 233,470. 2 Claims. (Cl. 5—46.)

1. In a foldable bed-frame comprising a base-frame, a supporting frame hinged thereon, and two opposed bed-frames hinged on said supporting frame, one of said opposed bed-frames having foldable supporting legs adapted to support the same in opened position, a folding supporting frame hinged on the other of said bed-frames, said folding supporting frame being adapted to rest on said base-frame and support said bed-frame in collapsed posi-



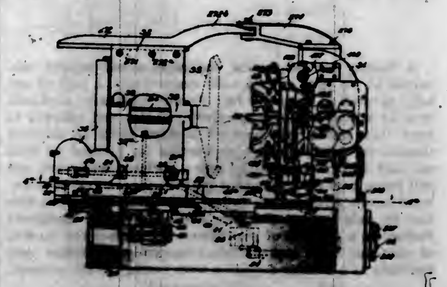
tion and being adapted to engage said base-frame to support said bed-frame in opened position, and means on said base-frame adapted to coöperate with the free end of said folding supporting frame for preventing accidental disengagement of said folding supporting frame from said base-frame when said bed-frame is in opened position.

1,394,585. AEROPLANE. GEORGE A. SPRATT, Coatesville, Pa. Filed Jan. 3, 1920. Serial No. 349,165. 4 Claims. (Cl. 244—31.)



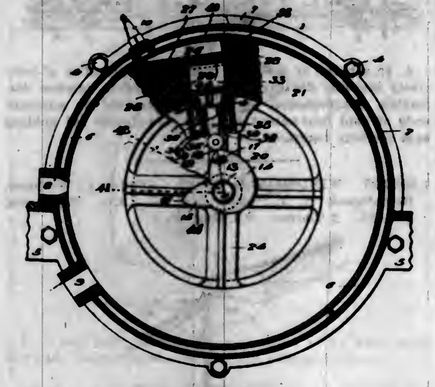
1. In an aeroplane, the combination with a frame of an aerofoil having spars, of a circularly arched fabric drawn between said spars, and ribs extending oppositely from said spars on opposite sides of said fabric into overlapping relation, said ribs being shorter than the distance between said spars.

1,394,586. GEAR-PLANING MACHINE. ARTHUR L. STEWART and ERNEST C. HEAD, Rochester, N. Y., assignors to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed June 21, 1920. Serial No. 390,363. 36 Claims. (Cl. 90—10.)



1. A gear cutting machine comprising a tool support and a blank support, one of which has a feeding movement relative to the other, a tool on said tool support having a cutting movement over a tooth face at one side of the horizontal central plane of the machine, and templet means controlling the tool to produce the curvature of said tooth face and adjustable to vary the angular relation of said curvature to the median radius of the tooth according to the relation between the tooth thickness and the radius of the circle on which the tooth profile is developed.

1,394,587. ROTARY GAS ENGINE OR MOTOR. ROBERT H. STEWARD, Greensboro, N. C., assignor to R. H. S. Motors, Incorporated, a Corporation of North Carolina. Filed July 31, 1920. Serial No. 400,393. 8 Claims. (Cl. 123—44.)

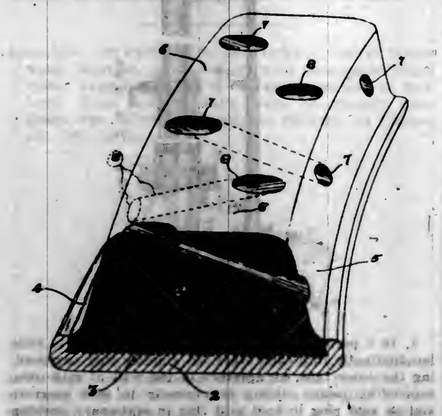


7. In a rotary explosive engine or motor, a casing provided with an inwardly projecting bearing, a cam integral with said bearing which projects vertically at a point at substantially the center of said casing, a drive shaft mounted in said bearing, a rotor mounted on said drive shaft having a piston cylinder and piston and means for operatively connecting the said piston with the said cam.

1,394,588. PROCESS OF MAKING A DEPILATORY FOR HIDES AND SKINS. ALBERT H. STONE, Boston, Mass. Filed May 23, 1919. Serial No. 299,248. 2 Claims. (Cl. 28—13.)

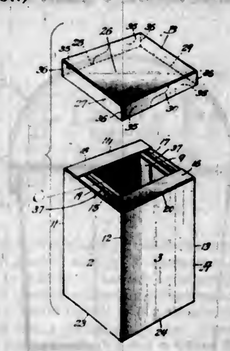
1. In the process of making a depilatory from lime and sodium sulfid liquor the improved step which consists in a prolonged agitation while hot of the result or product of the reaction of said ingredients, whereby the depilatory is obtained in solid form and latitude in the character of the ingredients used is afforded.

1,394,589. CUSHION-TIRE. BENJAMIN C. SWINEHART, Akron, Ohio. Filed Jan. 13, 1921. Serial No. 437,024. 5 Claims. (Cl. 152—1.)



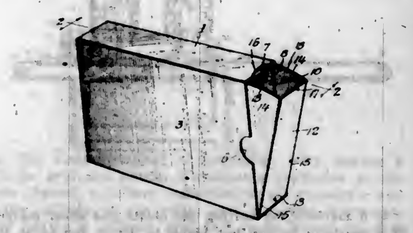
3. A tire of the class described comprising an annular elastic body provided on each lateral side with a circumferentially extending series of regularly recurring holes which project therethrough and terminate in the peripheral face thereof at points adjacent the opposite side of the tire body.

1,394,590. OPEN-END CONTAINER. ANDREW L. WEIS, Monroe, Mich., assignor to The Weis Fibre Container Corporation, Monroe, Mich., a Corporation of South Dakota. Filed Dec. 26, 1917. Serial No. 208,952. 5 Claims. (Cl. 229—37.)



4. In the construction of a fiber container, a single blank from which the entire container is formed, comprising four side wall sections having their lower ends provided with overlapping flaps to form the bottom wall of the container and having their upper ends provided with short flaps two of which are folded down upon the other two flaps at the four upper corners of the container, so that two opposite flaps are in a plane above the other two opposite flaps at the top of the container, with space forming a rectangular opening between the inner edges of said short flaps, when thus folded at the top of the container, thereby to form a stiffening flange for the four upper edges of the side wall section, the lower flaps of the top having ridges extending between the inner edges of the upper flaps, and a cap having a top wall to rest upon said upper flaps and said ridges of the lower flaps.

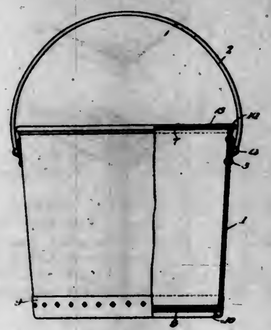
1,394,591. SLIDE-COVER BOX. ANDREW L. WEIS, Monroe, Mich., assignor to The Weis Fibre Container Corporation, Monroe, Mich., a Corporation of South Dakota. Filed Mar. 7, 1918. Serial No. 220,933. 4 Claims. (Cl. 229—17.)



1. A slide-cover-box comprising a rectangular cover-section, and a similarly shaped container-section adapted to telescope within the cover-section, said container-section having a closure extending the full height of the end thereof, which closure is hinged at its lower end to swing outward a limited distance at its upper end so that the height of the closure is practically the same when open as when closed, to prevent spilling of the contents of the box, and

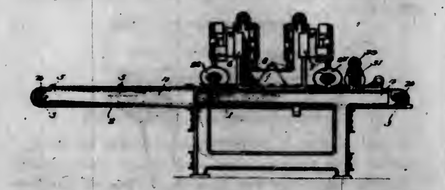
provided with side flaps for insertion in the cover-section, so that the flaps are held in place by the walls of the cover, the container-section and its closure being inseparable.

1,394,592. METAL-BOUND FIBER CONTAINER. ANDREW L. WEIS and WILLIAM H. RAY, Monroe, Mich., assignors to The Weis Fibre Container Corporation, Monroe, Mich., a Corporation of South Dakota. Filed Nov. 5, 1919. Serial No. 335,845. 5 Claims. (Cl. 217—5.)



1. A container comprising a fiber body forming the sides of the container, a bottom which keeps the lower end of said body in expanded condition, and sheet metal binding in the form of a hoop which counteracts the said expansion of the body by the bottom and which reinforces the lower edges of said body and which has a lower channel portion forming a hollow annular base for the container and for holding said bottom in place, with the outer edge of the bottom engaging the outer side wall of the hoop and with the inner edge of said base engaging the inner surface of said bottom.

1,394,593. BOX AND PROCESS OF AND APPARATUS FOR THE MANUFACTURE THEREOF. ALBERT G. WETMORE, Plymouth, Ind. Filed Apr. 9, 1919. Serial No. 288,825. 26 Claims. (Cl. 144—7.)



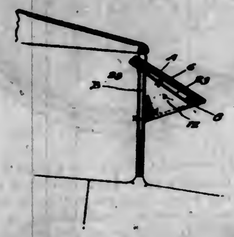
1. A machine for cutting the cleats and sheet material of a partially formed box blank to divide the blank into flexibly connected sections, comprising instrumentalities for entirely severing the cleats on a line extending across the blank, thereby forming oppositely disposed notches therein, leaving the sections of the cleats still connected end to end by the sheet material, a structure for supporting the blank during the operation, and cutting means disposed in position for severing the sheet material along said line, leaving the sections united merely by the flexible connection between them.

1,394,594. DUMPING-BARGE. ANDERS FREDRIK WIKING, Seattle, Wash. Filed Dec. 13, 1920. Serial No. 430,177. 11 Claims. (Cl. 114—80.)



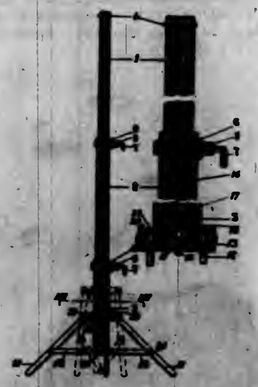
1. In a barge of the class described, a plurality of relatively movable floating sections arranged in tandem formation, complemental bin sections mounted on adjacent ends of said first-named sections, and means for holding said sections together.

1,394,595. WINDSHIELD-VISOR. AUGUST F. WINBERG, Boundbrook, N. J. Filed Aug. 23, 1920. Serial No. 405,422. 2 Claims. (Cl. 296—95.)



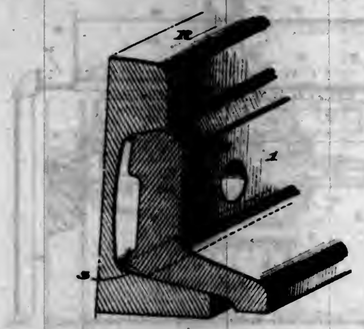
1. A visor for mounting on the swinging portion of a vehicle wind shield comprising a length of material having a triple seam at one edge forming a pocket, a loop on the free edge of the pocket containing a filler piece, and sides having a triple seam at the juncture of the sides with the major portion of the visor.

1,394,596. TELESCOPIC STAND. MAURICE J. WOHL, Long Island City, and MAX MAYER, New York, N. Y., assignors to M. J. Wohl & Co., Inc., Long Island City, N. Y., a Corporation of New York. Filed Feb. 26, 1921. Serial No. 448,037. 3 Claims. (Cl. 248—41.)



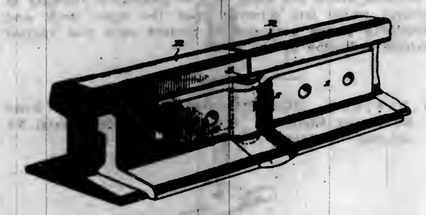
1. In a portable stand a pair of tubes adapted to slide longitudinally into each other, an annular ring surrounding the outer tube, an aperture in the wall of said tube, supporting means sliding transversely in said aperture and on said ring to hold said ring in stationary position on said tube and independent means on said ring to press said supporting means against said inner tube.

1,394,597. MEANS FOR LUBRICATING RAIL-JOINTS. BENJAMIN WOLHAUPTER, New Rochelle, N. Y., assignor to The Rail Joint Company, New York, N. Y., a Corporation of New York. Filed July 7, 1921. Serial No. 483,033. 10 Claims. (Cl. 238—151.)



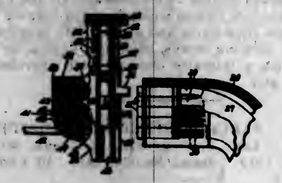
1. A rail joint having a bar provided at its head with lubricant supplying means for the fishing surfaces.

1,394,598. RAIL-END-SUPPORTING RAIL-JOINT. BENJAMIN WOLHAUPTER, New Rochelle, N. Y., assignor to The Rail Joint Company, New York, N. Y., a Corporation of New York. Filed July 7, 1921. Serial No. 483,034. 8 Claims. (Cl. 238—244.)



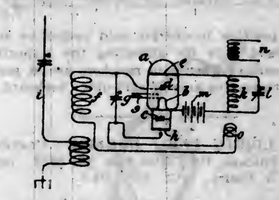
1. A rail joint including a fishing bar and a separate shock-piece engaging the under side of the rail head.

1,394,599. TYPEWRITING-MACHINE. OSCAR WOODWARD, Babylon, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed June 18, 1918. Serial No. 240,607. Renewed Apr. 28, 1921. Serial No. 465,246. 14 Claims. (Cl. 197—177.)



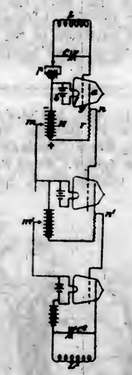
1. In a typewriting or like machine, the combination of a carriage; and tabulator mechanism for arresting the carriage, said mechanism comprising a plurality of key controlled operating stops, an arresting stop, and means for mounting said arresting stop so that it may be adjusted on and independently of its support to different set positions while the arresting stop is maintained on said support and so that the arresting stop may be set for coaction with any one of said operating stops to the exclusion of the others.

1,394,600. WIRELESS-TELEGRAPH RECEIVER. GEORGE MAURICE WRIGHT, London, England, assignor, by mesne assignments, to Radio Corporation of America, a Corporation of Delaware. Filed June 8, 1916. Serial No. 102,500. 9 Claims. (Cl. 250—20.)



8. The method of operating a receiving circuit including an evacuated vessel having a plurality of electrodes therein, one of which is heated sufficiently to give off electrons, said method comprising impressing the current to be received on said circuit and maintaining said heated electrode at so low a temperature that there is not more than a slight magnification of the received current in the portion of the receiving circuit through said vessel.

1,394,601. THERMIONIC DEVICE. GEORGE MAURICE WRIGHT, London, England, assignor, by mesne assignments, to Radio Corporation of America, a Corporation of Delaware. Filed May 1, 1918. Serial No. 231,872. 5 Claims. (Cl. 179—171.)

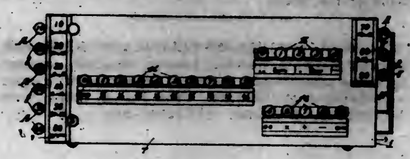


1. The combination of a thermionic relay having a cathode, grid and anode, a resistance connected to the anode thereof, a battery connected to the resistance and to the cathode of the relay, and a second thermionic relay having a cathode, grid and anode having its grid connected to the anode of the first and its cathode to a point in the battery between its terminals.

1,394,602. MASTER-KEYBOARD. WAYNE P. ZENT, Troy, N. Y. Filed Jan. 18, 1919. Serial No. 271,922. 12 Claims. (Cl. 276—7.)

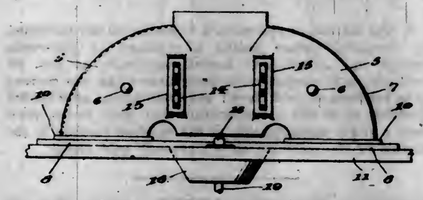
4. A master-keyboard having means whereby it can be supported in operative relation to another keyboard, key-

operating members shiftable into and out of position to operate respective keys of said other keyboard, means for shifting said key-operating members at will into and at



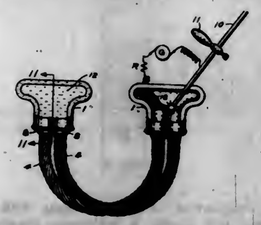
will out of position to operate said respective keys, and master-keyboard keys for actuating the respective key-operating members when said members are in position to operate the respective keys of said other keyboard.

1,394,603. LIQUID-FUEL BURNER. CLARENCE H. ALLISON, Chicago, Ill. Filed Mar. 10, 1921. Serial No. 451,355. 1 Claim. (Cl. 158—91.)



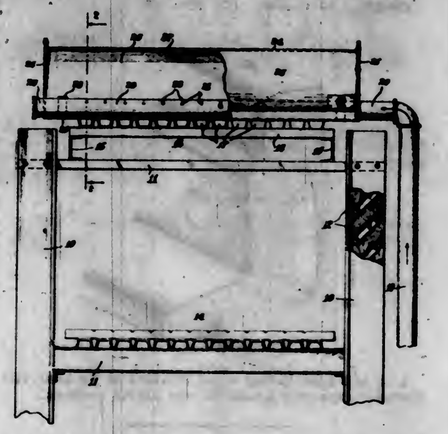
A liquid fuel burner comprising a base plate having air inlet openings and carrying a burner nozzle, an arched air tube having its ends open and seating over the air inlet openings of the base plate, the burner nozzle being located beneath the tube, and the latter having a bottom air outlet opening in line with the burner nozzle, air-controlling valves in the tube between its ends and the outlet opening, and a partition in the tube above the air-outlet opening, the valves being located on opposite sides of the partition.

1,394,604. METHOD OF MANUFACTURING RAIL-BONDS. WILLIAM P. BOYARD, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Feb. 10, 1921. Serial No. 443,764. 11 Claims. (Cl. 219—41.)



1. The method of manufacturing a rail bond consisting of a ferrous member and a high conductivity cable united thereto comprising the steps of forming up a ferrous member with a recess and having a channel opening into the recess to receive the cable and having projecting lugs adjacent the channel to engage the cable, then inserting the cable into the channel, then securing the cable in position in the channel by bringing the lugs into strong engagement with the cable, then uniting the cable to the member and filling the recess by electro-thermo-deposition of a metal similar to that of the cable and fused to the cable and member.

1,394,605. COOLING-TOWER. EDWIN BUEHLER, Hoboken, N. J. Filed May 3, 1919. Serial No. 294,851. 4 Claims. (Cl. 261—111.)



1. In a cooling tower wherein the descending water is subject to direct contact with natural currents of air, the combination with a tower framework, a series of distributing decks spaced vertically apart, a distributer operating above the upper deck to produce a plurality of lateral water jets directed upon the upper deck, and shielding means arranged to protect such jets against lateral deflection by the wind.

1,394,606. NECKTIE FORM AND HOLDER. JOHN BUTTRAMO, Elgin, Ill. Filed Oct. 19, 1920. Serial No. 417,903. 1 Claim. (Cl. 2—84.)

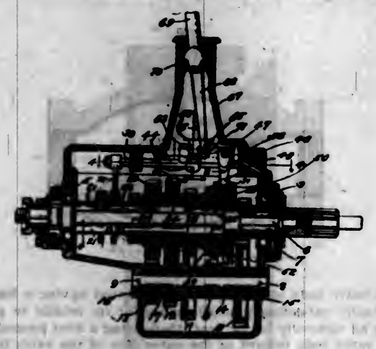


A tie form comprising a body formed of sheet material and having its intermediate portion of trapezoidal shape with the edges thereof rolled backwardly, the body having its upper corners formed with elongated tongues bent backwardly upon themselves and formed with openings adapted to receive securing means, said body having its lower end formed with a laterally elongated tab provided with an elongated slot.

1,394,607. VARIABLE-SPEED-TRANSMISSION MECHANISM. LEON J. CAMPBELL, Buchanan, Mich. Filed Dec. 8, 1919. Serial No. 343,343. 10 Claims. (Cl. 74—59.)

1. A variable speed transmission mechanism, comprising a plurality of gear wheels constantly in mesh, with the speed gear wheels loosely mounted on the driven shaft and the drive gear wheel loosely mounted on the driving shaft, means for selectively connecting the speed gear wheels to the driven shaft and for directly connecting the driving and driven shafts together, and means actuated

with said first named means for disconnecting the drive gear wheel from the driving shaft each time the speed



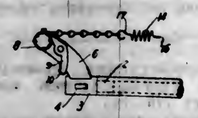
gear wheels are disconnected from the driven shaft and also when the driving and driven shafts are directly connected together.

1,394,608. TOOL. STEPHEN A. DAVIES, Cleveland, Ohio, assignor of one-half to Frederick E. Buchser, Cleveland, Ohio. Filed Apr. 29, 1920. Serial No. 377,490. 8 Claims. (Cl. 66—1.)



1. A tool comprising the combination of a bolt and a member having a tongue and groove end to end connection, said member not exceeding in cross dimension the diameter of the shank of said bolt, the free end of said member being of reduced size and fashioned with an opening purposed for the insertion of an element whereby to effect the turning of said bolt when its head is inaccessible.

1,394,609. COLLAPSIBLE BED-SPRING. DAVID J. DAVIS and WILLIAM C. DAVIS, Columbus, Ohio; said William C. Davis assignor of forty per cent. to George Davis, Columbus, Ohio. Filed Sept. 20, 1915. Serial No. 51,587. 2 Claims. (Cl. 5—68.)



2. A bed spring comprising a frame-work, a web structure, a winding roller, chains on and directly connected to said web structure, and T-heads on said winding roller for the retention of any link of any chain.

1,394,610. ROSIN PRODUCT. JUDSON A. DE CEW, Mount Vernon, N. Y., assignor to Process Engineers, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 6, 1920. Serial No. 415,149. 5 Claims. (Cl. 134—21.)

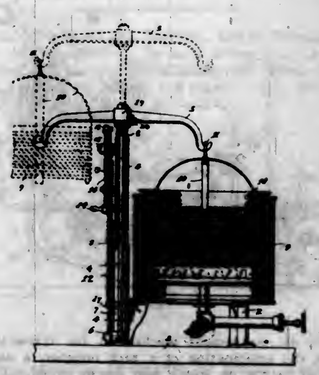
1. A method of imparting more water repellent characteristics to rosin and its precipitates which consists in mixing a melted wax with a melted rosin.

1,394,611. PUMP. PETAR DELICH, Duluth, Minn. Filed Mar. 24, 1921. Serial No. 455,286. 3 Claims. (Cl. 221—1.)



1. A combination device of the character described comprising a receptacle, a rubber bulb attached to the upper end of the receptacle and communicating with the interior thereof, a suction pipe normally communicating with the upper end of the receptacle, and a pet cock communicating with the interior of the receptacle for the purpose described.

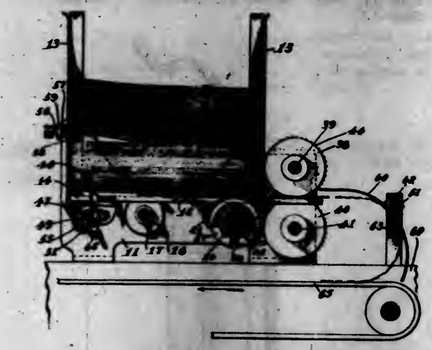
1,394,612. APPARATUS FOR DIPPING VEGETABLES. WILLIAM DERNELL, Chicago, Ill., assignor to Dernell Potato Products Co., Chicago, Ill., a Corporation of Delaware. Filed July 28, 1919. Serial No. 313,722. 7 Claims. (Cl. 53—7.)



6. In an apparatus for treating vegetables, the combination with a container for heated liquid, of a rotatable

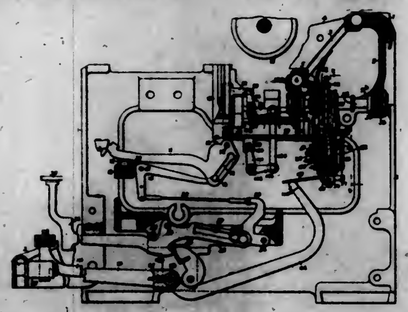
cross arm arrangement pivoted on a slidable vertical shaft member operable to lower and raise the carriers in and out of the container and rotatable to interchange the position of the carriers.

1,394,613. SHEET-FEEDING APPARATUS. FREDERICK A. DRURY, Jersey City, N. J., assignor to P. Lorillard Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 26, 1920. Serial No. 376,794. 12 Claims. (Cl. 271—41.)



1. In sheet feeding apparatus, a substantially horizontal, flat support for a stack of sheets; vertical guides for the stack, means for supporting the rear end of an upper portion of the stack, a sheet restraining member engaging below the stack near its rear end, a rotary feed member having a surface in the form of a segment of a cylinder engaging below the bottom of the stack near its front end, means supporting the feed member on a fixed axis of rotation and additional sheet gripping and feeding means for seising and withdrawing from the stack a sheet started from the stack by the feed member.

1,394,614. TYPEWRITING-MACHINE. ARTHUR J. DUDLEY, Jersey City, N. J., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Nov. 16, 1920. Serial No. 424,523. 21 Claims. (Cl. 197—82.)



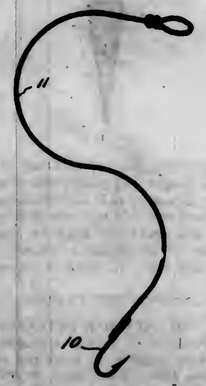
1. In an escapement mechanism for typewriting machines, the combination of a rack member, a dog, a key actuated carrier on which said dog is supported, another dog, a key actuated carrier for said last named dog, and a key which when actuated moves one of said carriers relatively to the other.

1,394,615. GAS-CONTROLLING VALVE. LOUISE E. BEWIS, Covington, Okla. Filed Apr. 2, 1921. Serial No. 457,940. 1 Claim. (Cl. 277—53.)



A valve body of the character described having a longitudinally extending passage formed at its middle to provide an upwardly facing seat, there being a duct formed in the valve body inward of the outer face of the valve body and extending beneath the seat and opening into the passage adjacent the opposite ends of the passage and on opposite sides of the seat, the duct being bowed away from said seat, a valve having a screwthreaded stem extending through the valve body whereby the valve may be raised and lowered, and a rotatable valve extending through the valve body and intersecting the by-pass duct and having a diametrically extending bore, the rotatable valve having an exterior handle and a pointer, the duct being of less diameter than the diameter of the passage extending through the valve body.

1,394,616. FISHING-TACKLE. CHARLES FREDERICKS, Brooklyn, N. Y. Filed Nov. 1, 1920. Serial No. 421,051. 3 Claims. (Cl. 43—28.)



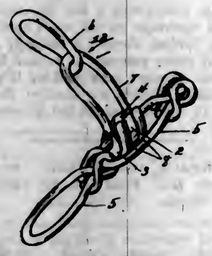
1. A fish hook in combination with a leader or lure having a glinting red appearance, substantially as described.

1,394,617. STOCK-WATERER. HENRY B. GOODRTY, Des Moines, Iowa. Filed Sept. 14, 1920. Serial No. 410,192. 2 Claims. (Cl. 119—73.)

1. In a waterer a casing, a tank in the upper part thereof spaced from the wall of said casing, a cover for said tank and casing, said casing having an opening in its wall below said tank, a trough having at its forward end means for co-acting with said casing for supporting said trough, a supporting member on said casing below the rear end of said trough, said trough being of less length than the diameter of said casing, a tube leading from said tank into said trough, the parts being so arranged that the trough may be raised at the forward end, slid off said support and then lowered into the lower part of said casing.



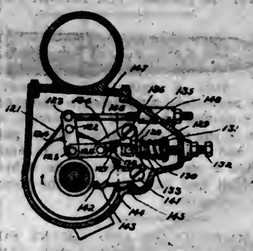
1,394,618. CHAIN CONNECTION. ALBERT P. GRIFFIN, Troy, N. Y. Filed Apr. 7, 1921. Serial No. 459,382. 4 Claims. (Cl. 24—232.)



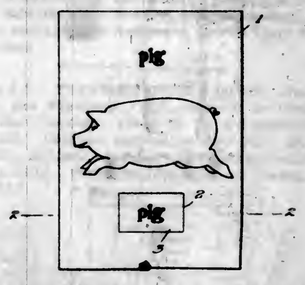
1. A chain-connection comprising in combination a core-piece having a pair of trunnions on opposite sides of a circumferential flange, and provided with an open link-receiving slot along one side of said flange and trunnions; and a U-shaped link having terminals rotatively engaging the respective trunnions and severally provided with link-receiving openings adapted to register with said open slot in one rotative position of said U-shaped link relatively to said core-piece.

1,394,619. ENGINE-STARTER. ALBERT J. HANSON, Portland, Me., assignor to Tidewater Equipment Corporation, Portland, Me., a Corporation of Maine. Filed Apr. 15, 1918. Serial No. 228,528. 10 Claims. (Cl. 290—36.)

1. An engine starter comprising a starting spring, transmission mechanism arranged to be driven thereby, brake mechanism arranged to restrain said transmission mechanism, said brake mechanism including a means arranged to set the mechanism in braking position, means arranged to move said brake mechanism to release said transmission mechanism, means arranged to act automatically to lock said brake mechanism in release position, and means controlled by said starting spring and arranged automatically to move said locking means to unlock said brake mechanism.



1,394,620. EDUCATIONAL APPARATUS. MARY ALDEN MORGAN HAUPT, Chicago, Ill. Filed June 4, 1920. Serial No. 386,576. 5 Claims. (Cl. 35—9.)



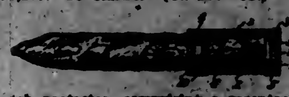
4. An educational toy comprising a board having a word thereon, and a recess; a plurality of blocks each containing a word, including said first mentioned word and others and each adapted to fit into the recess.

1,394,621. DOOR-SHAFT LEVER. DAVID HINDAHL, Chicago, Ill., assignor to National Dump Car Company, Chicago, Ill., a Corporation of Maine. Filed Apr. 30, 1921. Serial No. 465,652. 9 Claims. (Cl. 105—309.)



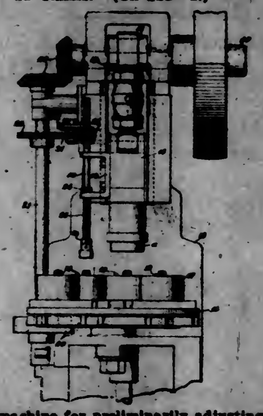
8. Door operating mechanism for general service cars, comprising a shaft, a lever rigidly attached to said shaft, having arms in angular relation to each other, each of said arms being provided with means for its prolongation.

1,394,622. ASH-PROTECTOR AND CUTTER ADAPTABLE TO CIGARS AND CIGARETTES. Benjamin A. Hoffmann, New York, N. Y. Filed May 6, 1919. Serial No. 295,119. 10 Claims. (Cl. 131—61.)



1. An ash protector, comprising a receptacle, adapted to surround a portion of a cigar or cigarette, substantially closed except at the tip end, having an air passage to the lighted end, and constructed of light-transmitting material to provide a visual control of the lighted end, and means to attach and hold in place the receptacle upon the cigar or cigarette.

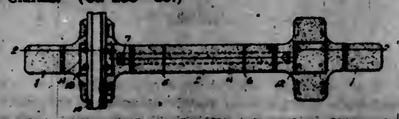
1,394,623. METHOD OF AND MEANS FOR ASSEMBLING SIFTER-TOP MEMBERS FOR CANS. George Holthaus, Baltimore, Md., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md., a Corporation of New Jersey. Filed June 26, 1919. Serial No. 307,261. 22 Claims. (Cl. 113—1.)



1. In a machine for preliminarily adjusting a rotatable cap on a can top prior to the crimping thereof, the cap and top having means adapted for registration and interengagement so as to limit the movement of the cap on the top in opposite directions, means for supporting the top and means for rotating the cap to bring the interengaging means into operative relation whereby an assembled top and cap in registry is provided ready for crimping.

16. In the art of assembling and crimping caps on can tops, in which the top and cap have means adapted for registration and interengagement so as to limit the movement of the cap on the top in opposite directions, the steps of placing the cap on the can top, stationarily supporting the can top while moving a continuous rotating element into contact with the cap for the rotation thereof on the can top until the means on the top and cap interengage, whereby an assembled can and top in proper registry is obtained, and in then crimping the cap on the top while the parts are thus in interengaged position.

1,394,624. RAILROAD-TIE. Perma C. Bemis, Chanute, Kans. Filed Aug. 6, 1920. Serial No. 401,624. 4 Claims. (Cl. 238—35.)



1. In a railroad tie, a plurality of sections disposed end to end adapted for limited vertical movement relatively to each other, means connecting the sections for holding them in operating position, and against endwise or tilting movement and rigid wear plates interposed between the sections, substantially as set forth.

1,394,625. FOLDING CRIB. John W. Kenney, Seneca Falls, N. Y., assignor to Kiddie-Town Products, Inc., Rochester, N. Y., a Corporation of New York. Filed Mar. 2, 1921. Serial No. 449,180. 3 Claims. (Cl. 5—58.)

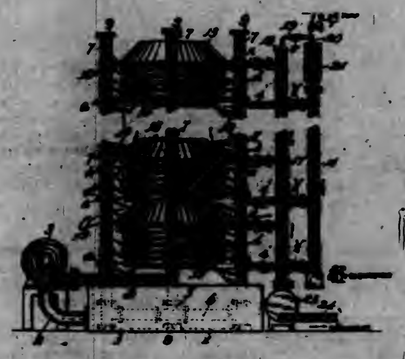
1. In a folding crib, the combination with a pair of opposite side frames, of a pair of parallel links pivotally connecting each end of each side frame with the corresponding end of the other side frame, and end frames pivoted to the respective pairs of links to fold therewith against the side frames.

1,394,626. INSECT-TRAP. Reinhold G. Koch, New York, N. Y. Filed Apr. 29, 1920. Serial No. 377,597. 1 Claim. (Cl. 43—121.)



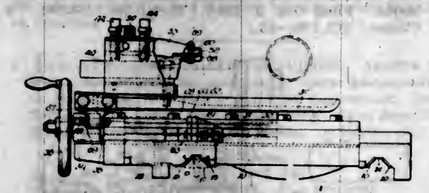
An insect trap, comprising a box provided with a plurality of spaced openings in its wall, each of the said openings having applied thereto a piece of material, and the said material being punched or broken inwardly with respect to the box whereby each opening is provided with converging irregular shaped portions of the broken material allowing an insect to enter but preventing its exit.

1,394,627. SURFACE CONDENSER. William Kondino, St. Louis, Mo. Filed Oct. 20, 1920. Serial No. 418,167. 12 Claims. (Cl. 257—37.)



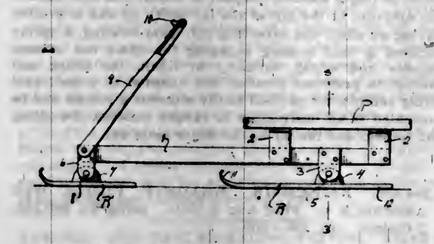
1. In combination with a surface condenser, a liquid spraying member positioned in proximity thereto and operating to induce a flow of atmospheric air toward the condenser and into the path of projection of the sprayed particles for cooling the latter, a deflector for intercepting the cooled liquid particles, means for collecting the particles so intercepted, and means for discharging the cooled liquid over the surface of the condenser.

1,394,628. LATHE-TOOL HOLDER. Le Roy Kramer and Alexander Boome, Chicago, Ill. Filed Feb. 28, 1918. Serial No. 219,551. 17 Claims. (Cl. 82—24.)



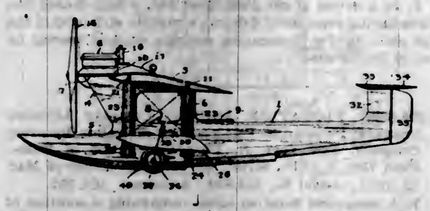
1. In a lathe tool holder, the combination with a cross slide, of a gang-tool holder associated therewith, means associated with said gang-tool holder for positioning the tools therein in predetermined relation to the line of cut and to the center line of the work when presented to the work, and means for arresting movement of the tool holder at a predetermined point in the advance thereof with respect to the work whereby to effect in cooperation with said tool-positioning means a correctly proportioned final shaping of that portion of the work thus cut.

1,394,629. SLED. John Leicht, Jr., Burlington, Iowa. Filed Feb. 9, 1920. Serial No. 357,164. 2 Claims. (Cl. 280—16.)



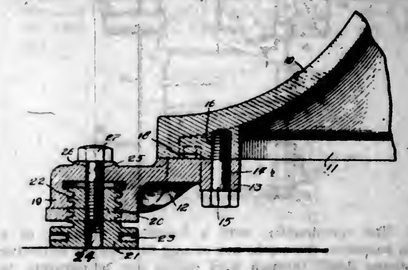
1. A vehicle of the class described comprising an elongated resilient bar, a platform supported by the rear end portion of the bar, a handle member engaged with the forward end portion of the bar, and fore and aft runners secured to the opposite end portions of the bar and underlying the same, turning movement of the handle flexing the forward end portion of the bar laterally.

1,394,630. AIRPLANE. Grover C. Loening, New York, N. Y. Filed May 13, 1919. Serial No. 296,802. 20 Claims. (Cl. 244—2.)



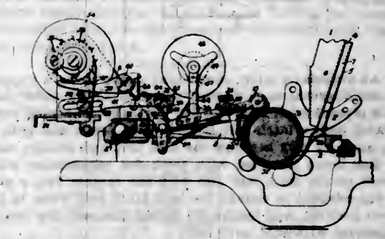
5. In a seaplane, the combination of a unit hull and superstructure, the latter formed by integral upward extensions of the sides of the hull, an engine bed on the top of the superstructure, and a pair of monoplane wings joined with the top of the superstructure at the sides of the engine-bed.

1,394,631. ADJUSTABLE SUPPORT. August E. Luschka and Joseph Folk, Laporte, Ind., assignors to U. S. Slicing Machine Company, Laporte, Ind., a Corporation of Indiana. Filed Sept. 8, 1919. Serial No. 322,357. 7 Claims. (Cl. 248—3.)



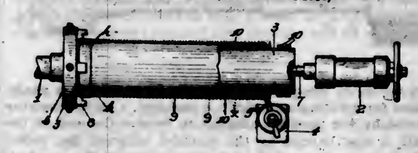
1. An adjustable support, comprising a threaded member for shifting the height of an object carried thereby, and means for locking said threaded member in various positions of adjustment, and a device for supporting said object on said threaded member, said device being offset relative to said threaded member to provide space for said locking means.

1,394,632. TYPEWRITING-MACHINE. Henry N. McKay, San Francisco, Calif., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Original application filed Apr. 25, 1919, Serial No. 292,586. Divided and this application filed Nov. 20, 1919. Serial No. 339,287. 36 Claims. (Cl. 197—153.)



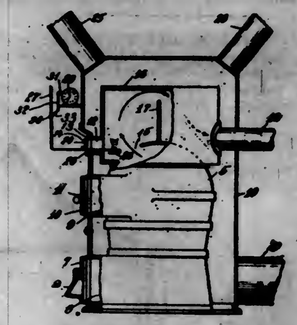
1. In a typewriting machine, the combination of a carriage, an auxiliary ribbon carrying bail or member carried by said carriage, and means for automatically lifting said bail or member at a predetermined point in the movement of the carriage.

1,394,633. PISTON-RING POT-CASTING AND METHOD OF MAKING PISTON-RINGS THEREFROM. Charles A. Marien, St. Louis, Mo. Filed Apr. 15, 1920. Serial No. 374,094. 6 Claims. (Cl. 29—156.6.)



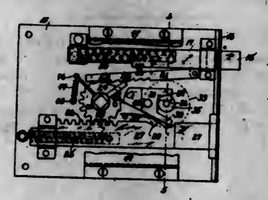
1. A piston-ring pot casting comprising a tubular shell, and a series of ring formations disposed circularly about the axis of the shell and spaced apart.

1,394,634. FURNACE ATTACHMENT. EDWIN COLE MASON, Madison, Wis. Filed July 15, 1920. Serial No. 396,369. 6 Claims. (Cl. 126—116.)



1. The combination with a household furnace, of a fluid burner in the smoke box of said furnace for initiating a strong draft through said smoke box preparatory to stoking the furnace.

1,394,635. AUTOMATIC LATCH. PASQUALE MATURO, New Haven, Conn. Filed Nov. 19, 1920. Serial No. 425,079. 3 Claims. (Cl. 292—181.)



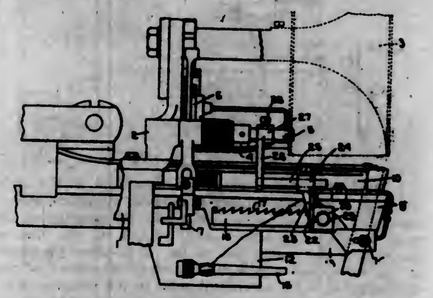
1. An automatic latch, comprising a case plate, a tripper mounted thereon, said tripper provided at its outer end with a pivotal nose, a ratchet bar pivotally connected with the latch bolt, a latch bolt formed with a rack and with a latch notch, a disk between the lock bolt and ratchet bar, said disk being provided with teeth for engagement with the rack on the latch bolt and with the ratchet bar, a pivotal dog adapted to engage the said latch bolt when in its thrown position, and means for lifting the said dog out of engagement with said latch bolt.

1,394,636. SHOE-POLISHING DEVICE. JOHN O. MURRAY, Wenatchee, Wash. Filed Dec. 29, 1920. Serial No. 433,851. 1 Claim. (Cl. 15—37.)



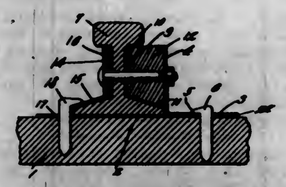
A device of the character described comprising a shaft, means for rotating said shaft, a mandrel, a socket member carried by the mandrel adapted to receive the end of the shaft, a stop carried by the mandrel adjacent the socket and projecting beyond the exterior surface of the mandrel, said mandrel having resilient arms struck therefrom, the ends of said arms being extended at right angles to form catches exteriorly of the mandrel, a cleaning and polishing implement including a hub, said hub having opposed recesses in one end thereof, and adapted to engage the mandrel, the catches of the mandrel being adapted to extend into the recesses when the opposite end of the hub is moved into engagement with the stop of the mandrel.

1,394,637. FILLING-END CATCHER FOR LOOMS. CHARLES E. NUTTING, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Oct. 2, 1918. Serial No. 256,581. 3 Claims. (Cl. 139—85.)



1. In a filling replenishing loom comprising a lay having an aperture therethrough to permit the discharge of an abandoned filling carrier and having a stand provided with a transferrer stud and a transferrer mounted thereon, a bracket carried by said transferred stud comprising complementary members forming a closed housing, a filling end catcher comprising a flexible plate formed of resilient material having a member adapted to engage the rear wall of the aperture in the lay as the lay beats up and a member having an offset end extending into said housing, a spring inclosed in said housing engaging the offset end of said member and acting normally to retain the filling end catcher in projected position but adapted to permit said filling end catcher to yield bodily whereby a smash will be prevented if an obstruction is caught between the filling end catcher and the lay as the latter beats up.

1,394,638. RAIL-CHAIR. WILLIAM F. PARHAM, West Asheville, N. C. Filed Aug. 2, 1921. Serial No. 489,236. 2 Claims. (Cl. 238—200.)



1. In a device of the class described, a loop-shaped fish plate having superposed flanges; a cushion strip within the fish plate; and a tie-engaging securing element bearing on one of the flanges.

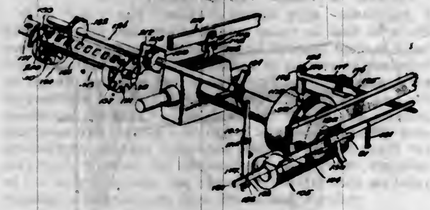
1,394,639. FLOTATION AGENT. CLEMENT LINWOOD PERKINS, Pittsburgh, Pa., assignor to Metals Recovery Company, New York, N. Y., a Corporation of Maine. Filed Dec. 3, 1918, Serial No. 265,164. Renewed Mar. 12, 1921. Serial No. 451,839. 6 Claims. (Cl. 252.)

1. A compound flotation agent comprising a solution of a solid amino compound in a liquid amino compound readily miscible with water.

1,394,640. CONCENTRATION OF MINERALS. CLEMENT LINWOOD PERKINS, Pittsburgh, Pa., assignor to Metals Recovery Company, New York, N. Y., a Corporation of Maine. Filed Dec. 3, 1918, Serial No. 265,165. Renewed Mar. 12, 1921. Serial No. 451,840. 10 Claims. (Cl. 83—85.)

1. The method of effecting the concentration of minerals by flotation, which comprises adding to the mineral pulp a small amount of a compound flotation agent comprising a mixture of a plurality of amino compounds, and subjecting the resulting mixture to a flotation operation, substantially as described.

1,394,641. CALCULATING-MACHINE. ARTHUR F. POOLE, Kenilworth, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 15, 1916. Serial No. 120,233. 17 Claims. (Cl. 235—60.)

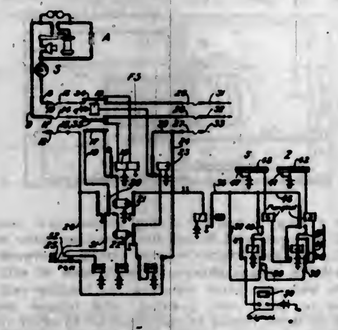


1. In a calculating machine, the combination of a set of totaliser wheels, a shaft having teeth mounted thereon, said teeth being adapted to actuate said totaliser wheels successively to carry said elements, a source of power, means to connect intermittently said source of power to said shaft, and means governed by said totaliser to cause said shaft to go through two complete cycles of carrying.

9. In a calculating machine, the combination of computing mechanism including carrying mechanism, operating mechanism, and means whereby an operation of said carrying mechanism through a cycle may, if necessary, cause an actuation of said operating mechanism through a second cycle to complete the carrying operation.

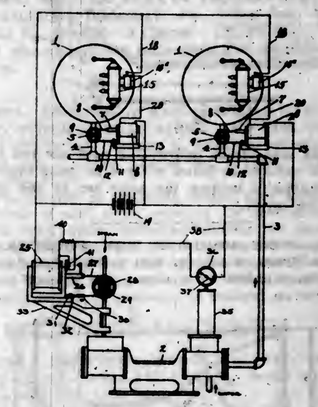
13. In a calculating machine, the combination with totaliser wheels, and carrying means capable of algebraic calculation, of means brought into action by the act of passing through zero for assuring an operation of the carrying mechanism through a second cycle.

1,394,642. ELECTRIC SIGNALING SYSTEM. RALPH L. QUASS, Hawthorne, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 12, 1919. Serial No. 337,594. 3 Claims. (Cl. 177—311.)



3. In a signaling system, a signal, a circuit, a heat relay and a marginal relay included therein, a resistance short circuited by the operation of the heat relay, a second heat relay and marginal relay, means operated by said first marginal relay in operating for disconnecting the marginal relay and heat relay from said circuit and substituting said second heat relay and marginal relay, said latter relay operating upon the operation of the associated heat relay, and means actuated thereby for operating said signal.

1,394,643. ELECTRIC FEED-WATER REGULATOR. WILLIAM M. REICHART, Cleveland, Ohio. Filed Feb. 27, 1919. Serial No. 279,480. 5 Claims. (Cl. 137—101.)



1. An electrical regulator for boilers, comprising a valve; a wheel connected to operate said valve; a chain passing around said wheel; a tension spring connected with one end of said chain and normally retaining said valve open; and an electro-magnet having an armature connected with the other end of said chain and adapted to close said valve.

1,394,644. BUCKLE. GEORGE ROTTMAN, New York, N. Y. Filed Jan. 12, 1920. Serial No. 350,944. 4 Claims. (Cl. 24—194.)

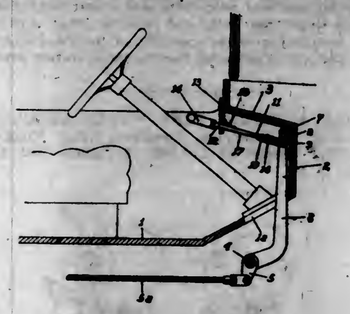


1. A buckle comprising a frame having a forward end, a parallel top and bottom, and a rear end offset from the frame, a channel-shaped brace connecting said top and bottom adjacent said rear end, a catch having its ends slidably engaging said top and bottom to coöperate with said forward end, the extremities of said top and bottom extending beyond said forward end, and said catch having its rear edge bent over to provide a recess to coöperate with the forward end, whereby when the end of a band is passed over said forward end, it may be forced into said recess and secured against said forward end by said catch.

1,394,645. BRAKE-OPERATING MEANS FOR MOTOR-VEHICLES. BENJAMIN F. SCHMIDT, Exeter, Calif. Filed Apr. 8, 1919. Serial No. 288,442. 2 Claims. (Cl. 74—39.)

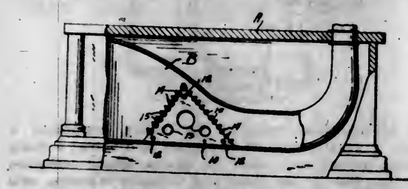
1. The combination with a shaft, and a lever-arm fixed thereto and projecting upwardly therefrom, of a link flexibly connected to the arm to allow relative vertical movement, said link being positioned at an angle to the

arm, a rigid guide bar extending rearwardly of the arm and parallel to the link, a guide strap fixed to the link, and engaging the bar, a pull rod pivoted to the rear end



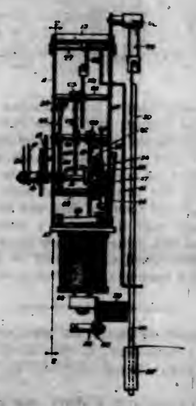
of the link, and means coöperating with the rod for allowing the same to be pulled without its being raised and for automatically holding the same set at any desired point in its travel.

1,394,646. TONE-MODIFIER FOR PHONOGRAPHS. WALTER SCOTT, Sheridan, Wyo. Filed Oct. 23, 1920. Serial No. 418,989. 4 Claims. (Cl. 181—27.)



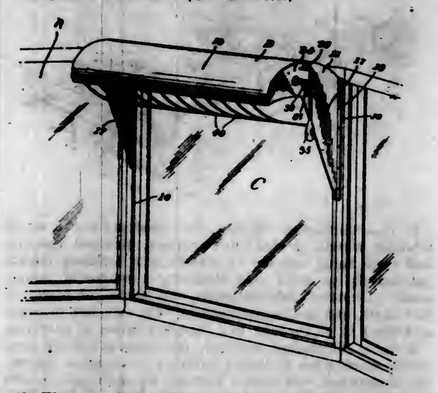
2. A tone modifier for phonographs comprising oppositely disposed, spaced, triangular plates, and a series of coiled contractile springs stretched across the space between said plates and engaged with the edges of the plates on two sides of the triangle.

1,394,647. TIME-INDINDICATING SYSTEM. ALFRED L. SOHM, Chicago, Ill. Filed Feb. 24, 1920. Serial No. 360,926. 6 Claims. (Cl. 58—24.)



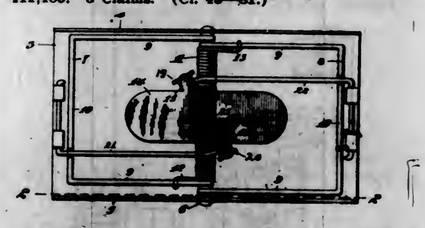
1. In a time indicating system, the combination of a master clock comprising a clock train, a contact wheel connected to be driven by said train, an electro-magnet associated with said clock, a secondary circuit with which said electro-magnet is connected, a main contact lever associated with said contact wheel, means controlled upon engagement of said lever with said wheel for closing said secondary circuit, locking means controlled upon first closure of said circuit for locking said circuit closed independently of said lever and wheel, said magnet being adapted upon closure of such circuit to release said lever from said wheel to thereby open the circuit at such point, a second contact lever associated with said contact wheel, electro-magnetic unlocking means and a circuit therefor, engagement of said second contact lever with said contact wheel causing closure of said unlocking means circuit and actuation of said unlocking means to open said secondary circuit.

1,394,648. ANTIFROST DEVICE. FRANK C. STEWART, Springfield, Mo. Filed Oct. 25, 1920. Serial No. 419,340. 6 Claims. (Cl. 20—40.5.)



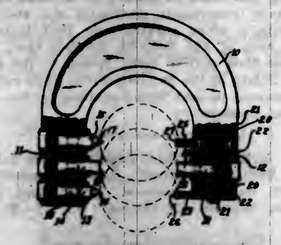
1. The combination with a transparent body, of an anti-frost device therefor comprising a transversely extending arcuate hood arranged at the upper edge of the body, heaters arranged in the hood, reflectors carried by the heaters, spaced guard fingers carried by the hood and arranged in front of the heaters, and means for swinging the heaters and reflectors so as to adjust the position thereof in relation to the body.

1,394,649. TRAP. GEORGE H. THOMPSON, Santa Barbara, Calif., assignor to Homer N. Duffey, Jr., Santa Barbara, Calif. Filed Sept. 20, 1920. Serial No. 411,485. 3 Claims. (Cl. 42—81.)



1. In a trap, a pair of spring pressed jaw members adapted to be extended in opposite directions under spring tension, a rockable trigger member arranged between said jaw members, means engageable with each of said jaw members and said pivot members for holding said jaw members in their open position, said trigger member adapted on being rocked in one direction to effect release of only one of the jaw members, and when rocked in the opposite direction to release the other jaw member.

1,394,650. THREAD-GAGE. MAX H. THOMS, Indianapolis, Ind., assignor to Howard Marmon, Indianapolis, Ind. Filed Aug. 23, 1920. Serial No. 405,876. 10 Claims. (Cl. 33—199.)



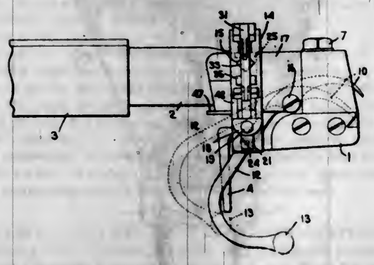
6. A "go" and "no-go" thread gage, comprising a body carrying two sets of gaging members each of which comprises a pointed member and an opposed toothed member which has teeth corresponding in spacing to the pitch of the thread, said two members of said two sets being respectively spaced apart the minimum distance and the maximum distance the tolerance of the thread permits, said gage also having a third set of gaging members comprising two opposed flat-ended members spaced apart the maximum distance the tolerance of the outside diameter of the thread permits, one gaging member of each set being adjustable toward and from its mating member.

1,394,651. AGRICULTURAL IMPLEMENT. GILBERT TOMPKINS, Thompson, Conn. Filed Dec. 30, 1919. Serial No. 348,258. 10 Claims. (Cl. 104—169.)



1. In a device of the character described the combination with a smooth runway, a support wheel mounted on said runway, a revoluble table secured to said wheel, and means operated by a side thrust of said wheel when it becomes at an angle to the line of draft to indicate such angular position of the support wheel and correct it.

1,394,652. TEMPLE-THREAD PARTER FOR LOOMS. ULYSSE N. TREMBLEY, South Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Feb. 14, 1921. Serial No. 444,675. 7 Claims. (Cl. 139—85.)



1. A loom temple provided with a thread parter, a detent operable to lock said thread parter in inoperative position, means tending normally to withhold said detent from locking position, means operable upon a predetermined number of movements of said thread parter to force and to hold said detent in locking position and means for releasing said detent.

1,394,653. MANUFACTURE OF LIQUID GLUE. DONALD K. TRESSLER, Pittsburgh, Pa., assignor to William A. Hamor, Pittsburgh, Pa. Filed Dec. 6, 1920. Serial No. 428,482. 6 Claims. (Cl. 87—17.)

1. A liquid glue, comprising glue compounded with an alkaline earth salicylate.

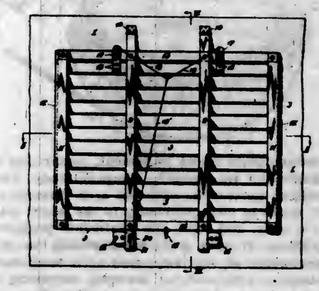
1,394,654. MANUFACTURE OF LIQUID GLUE. DONALD K. TRESSLER, Pittsburgh, Pa. Filed Dec. 27, 1920. Serial No. 433,504. 3 Claims. (Cl. 87—7.)

1. A glue composition comprising glue compounded with thiourea.

1,394,655. PROCESS OF MINERALIZING HAIR, WOOL, AND OTHER ANIMAL FIBER, AND THE PRODUCT SO PRODUCED. ALBERT O. TROSTEL, Milwaukee, Wis. Filed Dec. 1, 1919. Serial No. 341,695. 12 Claims. (Cl. 38—12.)

1. The process of rendering animal fiber shrinkable by the action of heat while resisting the destructive action of such heat, which comprises making the animal fiber porous by chemical reagents, removing the reagents and any byproducts formed thereby, and mineralizing the so-prepared fiber by treatment with solutions adapted to deliver relatively large amounts of mineral matter to such fiber.

1,394,656. SHUTTER. GEORGE IRA VAIL, Cleveland Heights, Ohio. Filed Aug. 16, 1920. Serial No. 403,830. 4 Claims. (Cl. 156—43.)

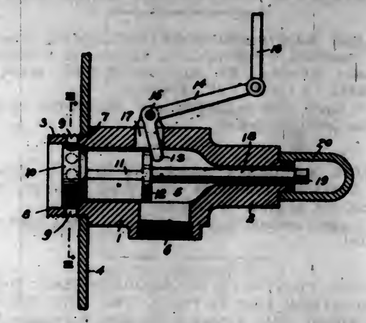


2. A shutter comprising, connected vertical and horizontal frame members; a plurality of horizontal overlapping blades pivotally connected at their inner edges to said vertical frame members; stampings formed with eyes and respectively secured to the outer edges of said blades; a vertically disposed chain whose links interlock with said eyes; and means for actuating said chain.

1,394,657. BLOW-OFF VALVE. PETER WERTZ, Pittsburgh, Pa. Filed Feb. 17, 1919. Serial No. 277,583. 1 Claim. (Cl. 251—133.)

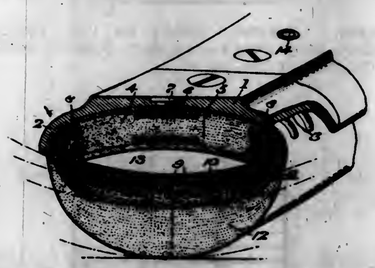
A valve for the purpose described, comprising a casing provided with a continuous passage therethrough from end-to-end thereof, a valve seat formed in the casing adjacent to its inner end, a disk valve coöperating with said seat, a stem secured to said valve and extending beyond the outer end of said passage and provided with a laterally projecting shoulder, an operating lever pivotally connected to the casing and having an arm engaging said shoulder, a

portion of the casing projecting inwardly beyond the valve seat and surrounding the valve and provided with transverse inlet openings; the inner end of the casing being



open and placing the rear end of the valve in communication with the pressure fluid controlled by the valve, and a member closing the outer end of the casing.

1,394,658. DEMOUNTABLE WHEEL EQUIPMENT. JOSEPH S. WILLIAMS, Riverton, N. J. Original application filed Jan. 19, 1911, Serial No. 603,552. Divided and this application filed Dec. 15, 1917. Serial No. 207,232. 13 Claims. (Cl. 152—10.)



8. A demountable wheel equipment, comprising an endless, annular and transversely elongated body, having an outer resilient portion in flattened arch formation across its major width in close proximity to the major transverse axis of the body, and with side abutments projected from the curvatures of said arch, substantially on said axis within the width of the body, said arch being formed of flexible tension and resilient material extending to said abutments and a tread supported by said arch.

1,394,659. LATCH. ERNEST APPLEGATE, Rushville, Ind. Filed Sept. 7, 1920. Serial No. 408,604. 1 Claim. (Cl. 292—95.)



A latching member for two relatively movable members, each having an eye, said eyes being positioned substantially at right angles to each other, comprising an eye-supporting portion secured to one of said eyes to provide a swivel connection between the moving member and the latching member, a looped handle portion lying in substantially the same plane as the latching member eye portion, and a partially closed hook portion receivable by the other eye and connected to the handle portion and lying in a plane substantially at right angles to the eye-supporting portion, said latching member being revoluble about an axis substantially that including the swivel eye-forming axis to position the free end of the hook in the other transversely positioned eye when in a plane above that including said transversely positioned eye, and being returnable into a plane substantially that including the transverse axes of the movable member eyes, said partially closed hook portion being locked to the associated eye by the weight of the handle portion when released and being maintained in said locked position by the weight of the latching member.

1,394,660. DIFFERENTIAL-GAGE. ABRAM T. BALDWIN, Detroit, Mich.; Catherine P. Baldwin executrix of said Abram T. Baldwin, deceased. Filed Sept. 24, 1917. Serial No. 193,046. 11 Claims. (Cl. 73—31.)



1. In a device of the character stated, the combination of a closed oscillatory annular member, having a liquid therein, a partition in the upper portion of said member, a liquid seal, connections from said seal to conduct pressures to said liquid at opposite sides of said partition, and means for conveying pressures to said seal.

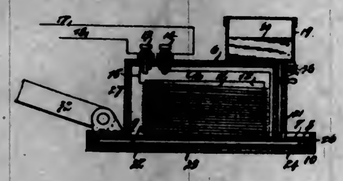
1,394,661. DIFFERENTIAL-GAGE. ABRAM T. BALDWIN, Detroit, Mich.; Catherine P. Baldwin executrix of said Abram T. Baldwin, deceased. Filed Sept. 24, 1917. Serial No. 193,047. 13 Claims. (Cl. 73—31.)



1. In a device of the character stated, an annular closed tube adapted to contain a liquid and having a partition

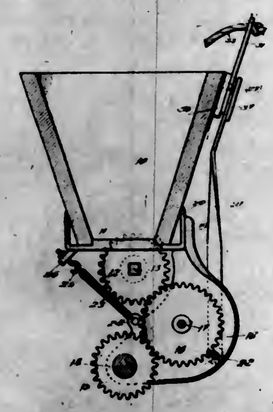
in the upper portion thereof, pivotal supports for said annular tube, a liquid seal having a movable top member, and pipes leading from said top member to said annular tube at either side of said partition, said top member, pipes and annular member being movable as a unit.

1,394,662. FLOOR WAXING AND POLISHING DEVICE. ERNEST O. E. BLOMQUIST, Woodside, N. Y. Filed Mar. 11, 1921. Serial No. 451,490. 5 Claims. (Cl. 91—30.)



5. In a wax applying device, a heating element, a reservoir for wax carried thereby and arranged to be heated by said element, a recessed plate carried by the heating element, a duct connecting the reservoir and recess in the plate, and a covering of absorbent material for said recess.

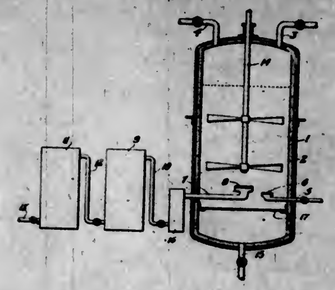
1,394,663. AUTOMATIC GEAR-THROW-OUT MECHANISM FOR GRAIN-DRILLS OR THE LIKE. THOMAS BRENNAN, Jr., Moline, Ill., assignor to Moline Plow Company, Moline, Ill., a Corporation of Illinois. Filed Sept. 22, 1919. Serial No. 325,435. 15 Claims. (Cl. 74—7.)



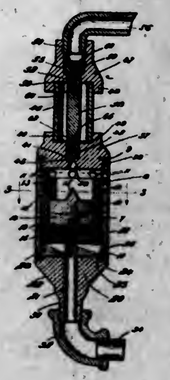
1. In an automatic gear throwout, the combination of a driven gear, a second gear adjustably mounted to be thrown into and out of mesh with the driven gear, a connection for adjusting the second gear to meshed or unmeshed position, controlling means for imparting movements to the adjusting connection and a guide for directing the path of said movements, said guide being configured to lock the adjusting connection out of normal on its first actuation by the controlling means, and to release the adjusting connection from locked position and allow it to return to normal position on the second operation of the controlling means, substantially as described.

1,394,664. PROCESS OF MAKING CHLORHYDRINS. BENJAMIN T. BROOKS, Bayside, N. Y., assignor to Chadeloid Chemical Company, a Corporation of West Virginia. Filed Sept. 24, 1919. Serial No. 325,971. 2 Claims. (Cl. 23—24.)

1. The process of making chlorhydrins which comprises passing chlorin and petroleum still gases into an emulsion of a solvent immiscible in water and an aqueous saline extraction medium, the chlorin and still gas being introduced in approximately equivalent quantities to form chlorhydrins and hydrochloric acid, in removing the oil charged with chlorhydrins from the field of reaction prior to chlorination of such chlorhydrins and in separating the chlorhydrin material from the solvent vehicle.

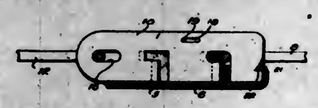


1,394,665. DECARBONIZING DEVICE. HUDSON BRUNEAU, Woonsocket, R. I. Filed Aug. 27, 1921. Serial No. 496,089. 2 Claims. (Cl. 277—42.)



1. In a decarbonizing device, a casing wall inclosing a piston chamber and provided with air holes near one end and with ports adjacent the holes extending to the other end of the wall, a closure member in the wall adjacent the holes provided with a valve seat and with a moisture opening communicating with the seat, a closure member in the other end of the casing wall provided with a suction opening, and with passages extending from the ports to the opening, a piston in the chamber movable across the ports, a valve on the piston registerable in the valve seat, and a spring on the second closure engaging the piston.

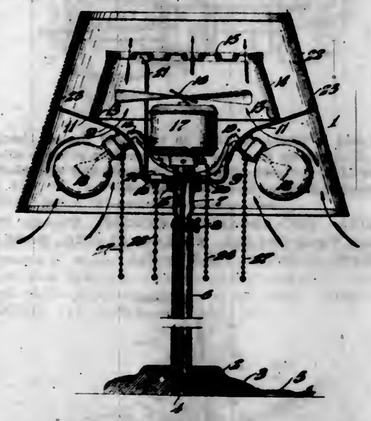
1,394,666. CHAIN-FASTENER. CLARENCE W. BURGE, Parkersburg, W. Va. Filed Apr. 27, 1921. Serial No. 464,943. 3 Claims. (Cl. 24—241.)



3. A terminal link comprising a casing, a pair of lock bars pivotally carried thereby and provided with bayonet

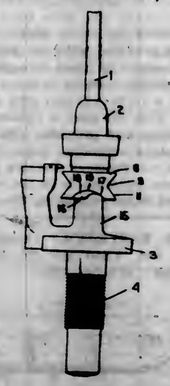
slots having longitudinal branches, one of said bars being slidable with relation to the other bar, and having its forward end formed with a notch, and a rearwardly directed bill carried by the casing and adapted to be received within said notch and means limiting the sliding movement of said sliding lock bar, said means consisting of a stop pin carried by one of the bars and a slot formed in the other bar and receiving the stop pin.

1,394,667. ELECTRIC LAMP AND HEATER. ELBERT A. CORBIN, Jr., Swarthmore, Pa. Filed May 25, 1921. Serial No. 472,505. 6 Claims. (Cl. 219—39.)



1. In a combined electric lamp and heater, a standard, a frame carried thereby and having arms adapted to support electric lights, an electric fan supported above said lights, an open-ended guard for said fan supported on said arms, an electric heater supported within said guard and in proximity to said fan, and a lamp shade surrounding said arms, heater and guard.

1,394,668. SPINDLE. EDWARD A. CUNNIFF, Fall River, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Mar. 4, 1920. Serial No. 363,153. 4 Claims. (Cl. 118—66.)



4. A whirl for vertical spindles having an annular V-shaped groove for a driving band, the lower wall of said groove being provided with a cam having its end extending in the direction of rotation of said whirl and adapted to engage a sagging driving band and ship the same from said whirl.

1,394,669. TOY. ARTHUR V. DA COSTA, Providence, R. I. Filed Feb. 18, 1921. Serial No. 446,128. 2 Claims. (Cl. 46—40.)



1. An animated toy comprising a bulbous body member having a head member mounted to roll about upon its upper surface, a balancing rod fixed in said head member and extending into said body to swing freely therein, said rod being weighted on its lower end to return said head member when moved from upright position, and a weight also in said body for returning it with its head member to upright position when moved therefrom.

1,394,670. SWINGING FIGURE TOY. ARTHUR V. DA COSTA, Providence, R. I. Filed Feb. 25, 1921. Serial No. 447,632. 3 Claims. (Cl. 46—46.)



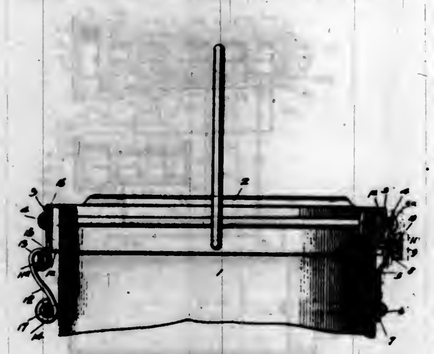
1. An animated toy comprising a bulbous transparent hollow body, a flexible stem having one end connected to one of the walls of said body and arranged to extend outward thereinto, and an object mounted on the free end of said stem within the body to vibrate and strike the inner walls of the body when the latter is agitated from side to side.

1,394,671. APPARATUS FOR THE AUTOMATIC MANIPULATION OF METAL INGOTS AT ROLLING-MILLS. EVAN WALTER DAVIES, Dowlais, Wales. Filed July 7, 1919. Serial No. 309,131. 5 Claims. (Cl. 80—48.)



5. An apparatus of the type described, including cross head and ingot turning and receiving elements, the turning element being slotted and pivotally mounted in position in its respective cross heads, said turning and receiving elements adapted to receive means for effecting cooperative action therebetween, whereby said turning element is adapted to have a plurality of separate turning movements successively about its pivots.

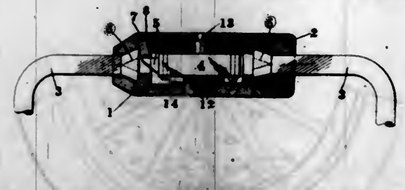
1,394,672. FASTENER FOR COVERS. CORTLAND W. DAVIS, Chicago, Ill., assignor to The Mantle Lamp Company of America, Chicago, Ill., a Corporation of Illinois. Filed Mar. 6, 1919. Serial No. 280,979. 14 Claims. (Cl. 220—55.)



1. An article of manufacture, comprising a clamping element having a pivot hole, a clamping end, and an opening for a securing device disposed between said hole and said end.

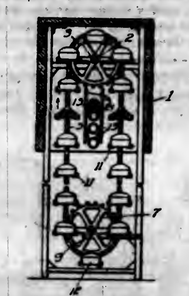
10. The combination with a vessel and a cover therefor, of a flexibly mounted clamp for said cover provided with means to interlock with said cover, and an adjustable securing device for said clamp.

1,394,673. CONNECTING DEVICE. MERRILL W. DOYLE, St. Louis, Mo. Filed Jan. 6, 1919. Serial No. 269,781. 7 Claims. (Cl. 70—90.)



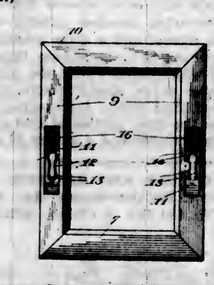
6. A connecting device comprising two members each having one end attached to one of the parts to be connected, one of said members having a lateral socket into which the other member is adapted to be inserted and a lateral opening communicating with said socket to receive the part attached to the inserted connecting member, said socket being adapted to prevent longitudinal movement of the other member in either direction, and said members being provided with coöperating locking surfaces at one end to prevent separation of said ends by relative lateral movement, and locking means preventing relative lateral movement of the other ends of said members.

1,394,674. METHOD OF AND APPARATUS FOR BAKING. SAMUEL D. FLOOD, Kenilworth, Ill. Filed Sept. 5, 1919. Serial No. 321,841. 8 Claims. (Cl. 107—57.)



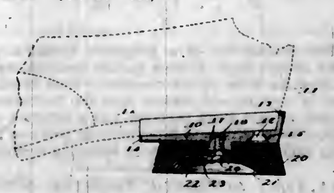
8. In an apparatus of the character described, an oven open at the bottom at opposite sides, a heater located in and supported by the oven between said sides and lying wholly above said bottom.

1,394,675. PICTURE-FRAME. JOSEPH EDOUARD FRECHETTE and LOUIS HACHEZ, Lowell, Mass. Filed May 14, 1921. Serial No. 469,622. 2 Claims. (Cl. 40—152.)



1. A picture frame comprising a pair of sections, one of which has grooves therein, fastening devices mounted in the grooves, and staples carried by the other section, for engagement with the fastening devices, for securing said sections together.

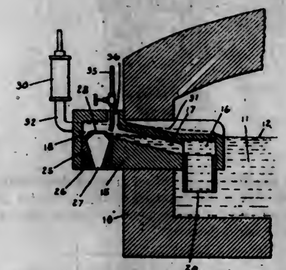
1,394,676. REVOLVING HEEL. TOWNSON HAND, New Haven, Conn. Filed Sept. 28, 1920. Serial No. 413,295. 3 Claims. (Cl. 36—39.)



1. A revolving heel comprising a plate adapted to conform to the heel of the shoe and provided with a raised edge portion at the sides and back extending in a continuous unbroken line, said plate having a plurality of openings therethrough to receive securing means for securing the same against the bottom of the shoe, said plate having a central circular boss projecting therefrom provided with end depressions and a threaded aperture, a cushion heel tread of circular outline having a reinforcing plate and a central aperture in which said plate is

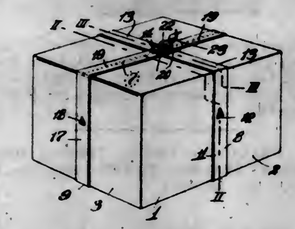
extended and bent into conical form to engage the bottom of the boss, a washer fitted into such conical portion and aperture and having projections engaging said depressions on the boss, and a screw having its head embedded in the washer and engaging the threaded aperture of the boss and plate to detachably secure the tread in position.

1,394,677. GLASS-DISCHARGING MECHANISM. EDWARD S. HUTTON, Lapel, Ind. Filed July 6, 1920. Serial No. 394,241. 6 Claims. (Cl. 49—55.)



1. The combination of a glass tank, a glass discharge member extending through the wall thereof with its end projecting beyond said wall, said member having a relatively large glass receiving chamber opening downward in the inner portion thereof and a glass conduit of relatively smaller dimensions in cross section than said receiving chamber and which extends from the upper end of said receiving chamber at an upward inclination to the discharge end thereof, and means for causing a sudden rising of the glass in the outer portion of said conduit for causing the discharge therefrom of a gather of glass.

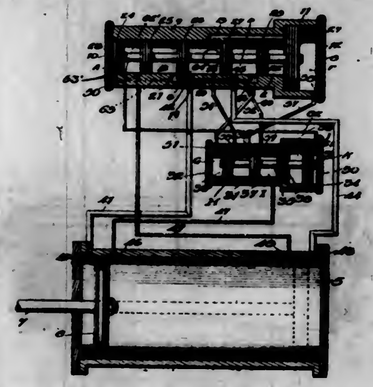
1,394,678. REINFORCING AND SEALING DEVICE. JOHN JANUCHOWSKY, Webster Groves, Mo. Filed Feb. 12, 1921. Serial No. 444,333. 9 Claims. (Cl. 229—47.)



7. The combination of a receptacle having a pair of foldable closure flaps, a strap portion extended upwardly from opposing walls of the receptacle, there being means carried by each of said closure flaps for interengagement with each of said strap portions, and a securing element for coöperation with said interengaging portions for preventing said strap portions from becoming separated.

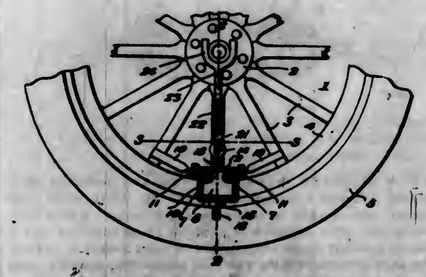
1,394,679. AUTOMATIC PRESSURE-OPERATED VALVE FOR ENGINES OR PUMPS. MORGAN JEFFERSON JOHNS, Miles City, Mont. Filed July 24, 1919. Serial No. 312,930. 1 Claim. (Cl. 121—158.)

An apparatus of the character described and comprising a main cylinder provided with main and auxiliary ports spaced apart, the auxiliary ports of less area than the main ports, a main piston mounted to reciprocate in said main cylinder, a pilot valve mechanism including a cylinder having an enlarged chamber at one end, a piston rod mounted to reciprocate in said cylinder and carrying a plurality of pistons of uniform diameter adapted to reciprocate in the body of said cylinder and a piston of greater diameter for the enlarged chamber, said pistons defining with the cylinder chambers of differential areas, conduits between one auxiliary port of the aforesaid main cylinder and the enlarged chamber of the pilot valve cylinder, conduits between the other auxiliary port of the main cylinder and the opposite end of the pilot valve, a main valve assembly comprising a cylinder having a body portion of uniform diameter and an enlarged chamber at one end, said main valve cylinder having an inlet chamber and a constant pressure port leading from the inlet chamber to the inner end of said enlarged chamber, an exhaust passage, a piston rod mounted to reciprocate in said main valve cylinder and carrying a plurality of uniform diame-



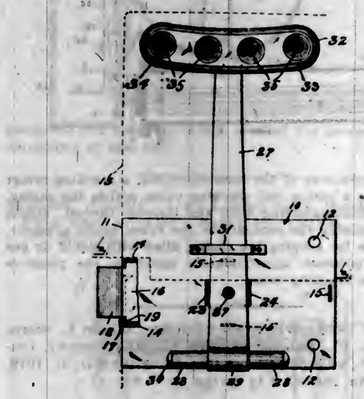
tered pistons to reciprocate in the body of the main valve cylinder and a piston of greater diameter within the enlarged chamber thereof, said differential areas pistons defining chambers including the before mentioned inlet chamber, ports leading from said chambers, conduits connecting the ports of the main valve with the ports of the pilot valve, conduits connecting the main ports of the main cylinder with the exhaust of the main valve, the inlet chamber of the main valve being in communication with the chamber at the inner side of the enlarged piston, valve means connected with the main valve piston to control the passage of fluid pressure to the main ports of the main cylinder, and means for balancing the pistons of the pilot valve with respect to the exhaust pressure.

1,394,680. WHEEL ATTACHMENT. GUSTAVE P. KNUDSON, Hurley, S. D. Filed Aug. 6, 1920. Serial No. 401,631. 4 Claims. (Cl. 301—44.)



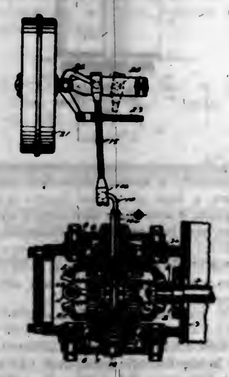
4. In combination with a vehicle wheel, of a mud hook therefor, including a block which is arranged against one side of the felly of a wheel, reinforcing means surrounding the ends of the block, a U-bolt passing therethrough and engaging one of the spokes of the wheel, nuts on the arms of the U-bolt contacting the outer end of the block, a clip surrounding the bottom of the block, a plate on the top of the block, a bolt passing through the plate and clip, a nut on the lower end thereof, an eye on the upper end thereof, brace members pivotally secured between the plate and clip, and extending from the opposite sides of the block, said brace members having hooked ends to engage spokes of the wheel, a yoke member engaging the hub cap of the wheel, and having a shank which is swiveled to the eye end of the bolt.

1,394,681. AUTOMOBILE-DOOR LATCH. DUFFA B. LAUSON, Grand Rapids, Minn. Filed June 9, 1920. Serial No. 387,659. 6 Claims. (Cl. 292—170.)



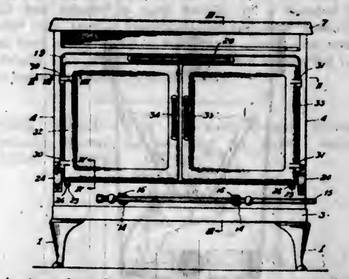
1. A door latch comprising a casing having an attaching plate, a bolt slidable in the casing, a spring normally projecting the bolt and adapted to permit retraction thereof, and an operating lever pivotally carried by the plate and movably engageable with the latch bolt to retract the same by movement in a plane at right angles to the bolt and door, said lever being pivoted at its lower end and being accommodated in the door.

1,394,682. POWER STEERING DEVICE FOR TRACTORS. OTTO LEROY LEWIS, Houston, Tex. Filed Nov. 12, 1920. Serial No. 423,621. 6 Claims. (Cl. 180—80.)



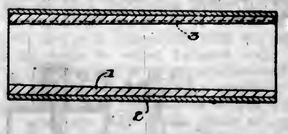
1. In a power steering device for power propelled vehicles having steering wheels and steering wheel connections, an axially shiftable shaft having universally movable members uniting the same at one end with the steering wheel connections, a pair of spaced gears, a driven shaft, a pinion carried by the driven shaft and engaging said gears, a sleeve rotatably mounted through the gears and held against lengthwise movement, through which the axially shiftable shaft is threaded, means to prevent rotation of said axially shiftable shaft, a clutch member splined on the sleeve and having manual means for shifting the same toward and in engagement with the said spaced gears, and means to limit axially shifting movements of the said shaft in relatively opposite directions.

1,394,683. STOVE-DOOR FITTING. THOMAS J. MCWILLIAMS, Cleveland, Ohio, assignor to Herman J. Trenkamp, Cleveland, Ohio. Filed Feb. 24, 1920. Serial No. 361,037. 9 Claims. (Cl. 126—190.)



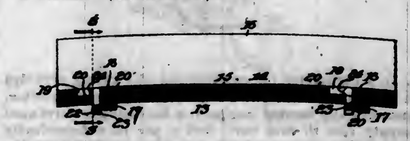
1. A stove door fitting comprising the combination with a stove having an oven compartment, of a door adapted to afford access to one entire side of said compartment and to have its inside wall rest level with the bottom of said compartment, another door carried by said first mentioned door and adapted to afford direct access to only a part of said compartment, a stationary part of said larger door resting level with the bottom of said oven compartment to form a continuous smooth surface when said smaller door is opened.

1,394,684. GLASS ROLL. KENJI MATSUO, Tokyo, Japan. Filed Sept. 22, 1920. Serial No. 411,976. 2 Claims. (Cl. 101—375.)



1. A roll consisting of a steel pipe the outer surface of which is perfectly smoothed and covered with a layer of milk glass which is rich in metallic constituents, substantially as and for the purposes hereinbefore set forth.

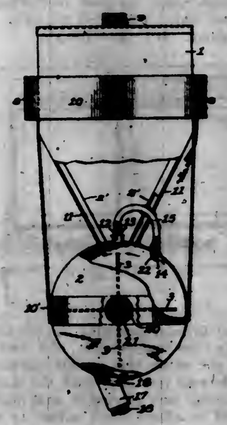
1,394,685. LUG-EQUIPPED TRACTION-WHEEL. GEORGE C. PLUMMER, Chicago, Ill., assignor to Thomas J. Hruby, Cicero, Ill. Filed Sept. 13, 1919. Serial No. 323,531. 2 Claims. (Cl. 301—44.)



1. The combination of a wheel rim containing apertures, a traction lug positioned on said rim and having ears

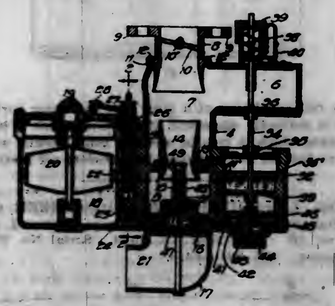
formed by deflecting the metal of said lug with the base of the lug apertured adjacent said cam, said cam being adapted to enter the apertures in said rim and interlock with the latter upon shifting said lug, and locking means extending into apertures in said lug and rim for holding the lug against shifting.

1,394,686. POWDER-BLOWER. CLAUDE F. REDMON, LILLARD K. REDMON, CLAUDE G. REDMON, and JOHN T. REDMON, Paris, Ky., assignors of one-fifth to Wade Hampton Whitley, Paris, Ky. Filed Jan. 7, 1921. Serial No. 435,711. 5 Claims. (Cl. 43—148.)



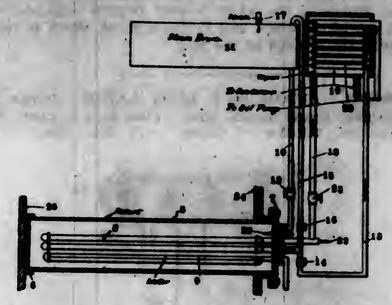
1. A powder blower comprising a container, a rotary blower in communication with said container, and means for diverting a portion of the blast from said blower into said container to force the contents thereof into the blower.

1,394,687. CARBURETER. WILLIAM REID, Chicago, Ill. Filed Sept. 2, 1919. Serial No. 321,137. 7 Claims. (Cl. 261—67.)



2. In a carbureter the combination of a casing provided with a mixing chamber, an air inlet valve for said chamber, a symmetrically located fuel port, a float chamber arranged to supply fuel to said port, and a pair of independently operating valves for controlling the flow of fuel from the fuel chamber to the port, one of said valves being controlled and operated by said air inlet valve.

1,394,688. APPARATUS FOR TREATING HYDROCARBON OILS. ROBERT BENNER, St. Louis, Mo., assignor to New Process Oil Company, a Corporation of Minnesota. Filed Sept. 18, 1917. Serial No. 191,536. 2 Claims. (Cl. 196—25.)



1. In apparatus of the class described, a cracking retort comprising a casing and cracking tubes within the casing, but not communicating with the interior thereof, means for maintaining the contents of the tubes under pressure, and means for keeping the casing filled with liquid or gas under a pressure approximately equal to the pressure within the cracking tubes.

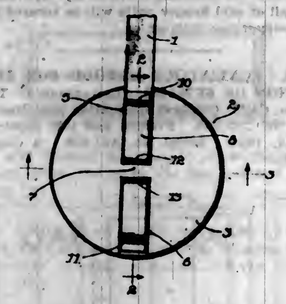
1,394,689. SELF-WINDING CLOCK. ALFRED L. SOHM, Chicago, Ill., assignor to Sohm Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 31, 1919. Serial No. 286,533. 14 Claims. (Cl. 58—41.)



1. In combination, a spring controlled clock mechanism having a frame, a base plate, an electro-magnet mounted on said base plate, a relatively stationary contact mounted on said frame, moving contact mechanism controlled by said spring motor, and adapted for coöperation with said first contact for closing the circuit of said electro-magnet, said first contact being actuated by said electro-magnet to break said circuit.

1,394,690. PENDULUM. ALFRED L. SOHM, Chicago, Ill., assignor to Sohm Electric Company, Chicago, Ill., a Corporation of Illinois. Filed May 5, 1919. Serial No. 294,783. 3 Claims. (Cl. 58—135.)

1. In combination, a pendulum rod, a bob having a groove therein, adapted for the reception of said pendulum rod, a bridge member extending across said groove and a spring retaining member yieldingly engaged between the



pendulum rod and said bridge member for preventing free movement of said bob.

1,394,691. CLAMP. JOHN L. SPENCE, Jr., Brooklyn, N. Y. Filed Mar. 19, 1921. Serial No. 453,835. 4 Claims. (Cl. 248—43.)



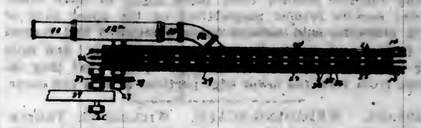
1. In combination, a pair of relatively movable members, a second pair of similar members, spaced from the first-mentioned pair, screw-threaded members one of which is secured to a member of one pair of relatively movable members and the other to the other pair of relatively movable members, a screw-threaded member received by the first-mentioned screw-threaded members for shortening the distance between the two pairs of relatively movable members, and a compensating rod for engaging a member of each pair when the space between the two pairs of relatively movable members is varied whereby the relatively movable members are clamped.

1,394,692. HEATING-TANK. JAMES M. STOCKER, Atlanta, Ga. Filed Aug. 2, 1919. Serial No. 314,990. 4 Claims. (Cl. 257—240.)



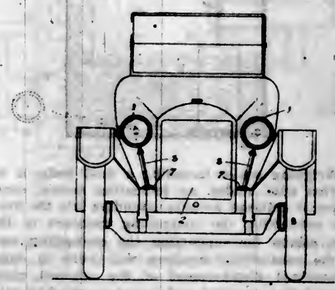
2. In combination, a tank, a plurality of steam coils in said tank extending longitudinally and arranged adjacent the sides and bottom thereof, each coil having independent means for controlling the supply of steam at one end and independent means for controlling the exhaust of steam at the other end, the lower coils being constructed to offer less resistance to the steam than the upper coils.

1,394,698. TRAVELING SCREEN FOR SUCTION-NOZZLES. MARTIN SWINTEK, Eddyville, Iowa. Filed Feb. 28, 1920. Serial No. 361,956. 2 Claims. (Cl. 37—9.)



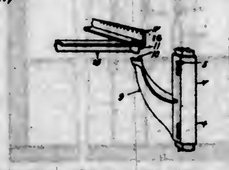
1. The combination with a suction nozzle adapted to be raised and lowered and formed with wings having curved outer margins beyond the mouth of said nozzle, track members being carried by inner faces of said wings around the mouth of said nozzle, of a flexible screen mounted for travel longitudinally of said nozzle, said screen also being directed for travel across the mouth of said nozzle and between said wings and supported in such travel solely by said track members.

1,394,694. HEADLIGHT. EDWARD GOMES SYLVESTER, Honolulu, Hawaii. Filed Sept. 30, 1920. Serial No. 413,710. 6 Claims. (Cl. 240—7.)



1. In combination with the head light of a motor vehicle, of means for supporting said light for vertical adjustment with respect to the vehicle, means in connection with the said supporting means for permitting the lamp to be turned angularly to reflect the rays in any direction, means in connection with the support for permitting the lamp to swing outward away from the vehicle when the support is in a predetermined position, said first named means comprising a standard composed of telescoping sections, a foot for the standard of greater thickness at one edge than at the other to support the standard in an outwardly inclined position, and means for holding said sections in adjusted position extended or collapsed, said third named means comprising a hinge interposed in the length of one of the sections.

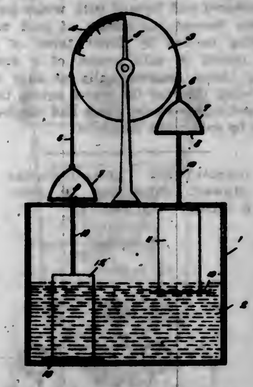
1,394,695. BEDSTEAD. HENRY H. TALBOT, St. Joseph, Mo. Filed Jan. 2, 1920. Serial No. 348,741. 1 Claim. (Cl. 5—4.)



The combination of bed posts for supporting a bed; brackets formed with said posts respectively, said brackets being extended inward and upward from said posts form-

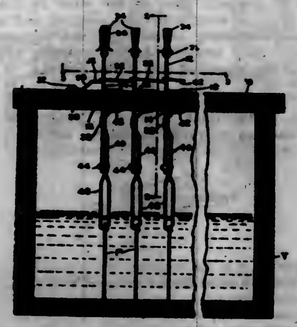
ing tucking spaces between said posts and the upper portions of said brackets for the reception of the lower edge portions of a bed cover; a spring frame; lugs secured on the respective corners of said spring frame said lugs being tapered smaller from their upper to their lower ends; sockets formed respectively on the upper ends of said brackets, said sockets being positioned and formed to receive and snugly fit said lugs respectively; and rails for said bed, said rails being so positioned that they obscure from view the lower edge portions of said bed cover.

1,394,696. WEIGHING-SCALE. WILLIAM G. TEMPLETON, Colorado Springs, Colo. Filed Sept. 24, 1919. Serial No. 325,880. 9 Claims. (Cl. 265—43.)



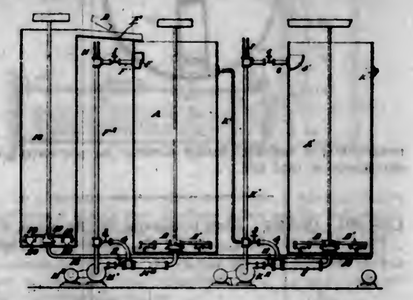
1. Weighing scales including a fluid body, a movably supported bulk holder, an indicating means, controlling members of different weights extending into the fluid body, means connecting the controlling members to the bulk holder, means for supporting the connecting means so that the controlling members will work in opposition, the combined displacement of the opposed controlling members being constant, and means operated by said members for actuating the indicating means, said members being normally balanced in the fluid to maintain the indicating means normally at a point of starting, said members being shiftable to readjust their balance within the fluid when a material is applied to the bulk holder.

1,394,697. FILM-HANGING DEVICE. GUSTAF E. TORNSJO, St. Paul, Minn., assignor to Rao Manufacturing Company, Minneapolis, Minn. Filed Mar. 11, 1921. Serial No. 451,617. 9 Claims. (Cl. 95—100.)



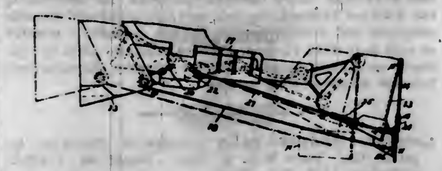
1. A film hanging device comprising a supporting member, a plurality of hanger units adapted to be supported by said member, interengaging means on said hanger units for locking them together, and means on the last one of said units for securing it to said supporting member whereby all of said hanger units will be secured in position on said supporting member.

1,394,698. CONTINUOUS METHOD FOR THE PURIFICATION OF SEWAGE. LAMARTINE C. TRENT, Los Angeles, Calif. Original application filed Mar. 26, 1919, Serial No. 285,286. Divided and this application filed Feb. 14, 1921. Serial No. 444,628. 6 Claims. (Cl. 210—8.)



1. The method of purifying sewage which resides in causing a flow thereof through a plurality of connected oxidation vessels, maintaining the liquid within said vessels under agitation, withdrawing liquid from the upper portion of each vessel and discharging the same through the bottom portion thereof under circulation in excess of the normal flow of liquid into and out of the said vessels, admitting air into the liquid as withdrawn from said vessels and finally delivering the liquid from the last of said vessels into a sludge thickening vessel.

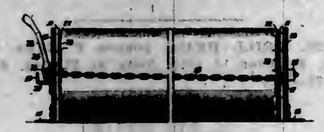
1,394,699. SCRAPER ATTACHMENT FOR UNLOADER-BUCKETS. CECIL E. VAN SICKLE, Lakewood, Ohio, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 17, 1920. Serial No. 381,844. 8 Claims. (Cl. 37—14.)



1. In combination with a bucket of a boat unloader, a scraper adapted to be applied to one of the jaws of the bucket for scraping into a pile the material at the bottom of a boat hatch by shifting the bucket with the scraper attached thereto, and means for attaching the scraper to one of the bucket jaws.

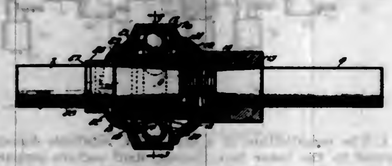
1,394,700. APPARATUS FOR HEADING ROLLS OF PAPER. JOHN B. WEST and LOUIS J. WALS, Brooklyn, N. Y., assignors to Tidewater Paper Mills Company, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 8, 1921. Serial No. 450,623. 4 Claims. (Cl. 216—9.)

1. An apparatus for heading rolls of paper, comprising a pair of upright abutments movable toward and from each other to receive a roll lengthwise between them, binding members extending from one abutment to the other at the sides thereof, means for suspending on the inner faces of the abutments the heads which are to be applied to the ends of the roll, and means coöperating



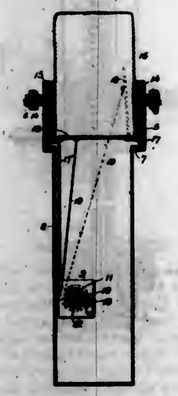
with the said binding members to draw the abutments toward each other and press the heads firmly upon the ends of the roll.

1,394,701. UNIVERSAL JOINT. WILLIAM A. WHITNEY, Rockford, Ill., assignor to Towner K. Webster, Evanston, Ill. Filed Oct. 9, 1919. Serial No. 329,434. 11 Claims. (Cl. 64—91.)



10. A universal joint comprising a ball member, an annular flange projecting outwardly from the ball member, said flange being provided with grooves extending transversely therethrough, the walls of the grooves forming planes and converging inwardly, a socket member provided with slots registering with said grooves, the walls of said slots forming planes converging outwardly, balls in said grooves and slots forming a driving connection between the ball and socket members and a ball retainer ring interposed between the ball and socket members.

1,394,702. SAFETY-VENT. MARIO WIGET, New York, N. Y. Filed May 24, 1919. Serial No. 299,643. 1 Claim. (Cl. 220—88.)



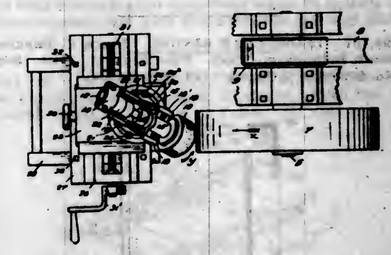
In safety vents the combination of a tank, a sleeve fitted in a wall thereof and providing a vent opening, a perforated cap above the sleeve, a valve beneath the outlet opening of the vent, a strainer below the valve, a spring carried by the sleeve and located within the tank, a connection between the spring and the valve, and means for adjusting the tension of the spring.

1,394,703. AUTOMOBILE-PULLER. JOSEPH H. WRIGHT, Henderson, Tex. Filed Jan. 27, 1920. Serial No. 354,276. 1 Claim. (Cl. 242—95.)



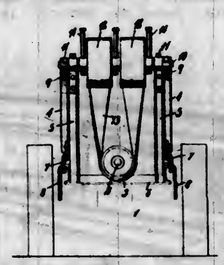
In combination with an automobile wheel having an exteriorly threaded hub, an interiorly threaded sleeve adapted to be received upon the hub, said sleeve having alining openings adjacent one end, a cable adapted to be wound upon the sleeve, a hook secured to one end of the cable and adapted to engage one of the wheel spokes, and a rod adapted to pass through the alining openings of the sleeve for rotating the same.

1,394,704. PULLEY-GRINDING MACHINE. WALTER C. BARNHART, Seattle, Wash. Filed Dec. 10, 1918. Serial No. 266,031. 1 Claim. (Cl. 51—35.)



In a machine for grinding the face of a pulley, an abrasive wheel, a shaft for said wheel, a holder provided with journal bearings for said shaft, a base plate provided with upwardly extending lugs and standard elements, having arcuate slots therein centering on said lugs, means provided adjacent the forward end of said holder for tiltably connecting the same to said lugs, means carried by the holder extending through said standard slots for securing the holder in adjusted angular positions, a carriage moveable parallel to the axis of the pulley, and means for connecting the base plate to the carriage for both rotary and rectilineal movements.

1,394,705. BELT PULLEY AND TIGHTENER. BEN D. BARTON, Lansing, Mich. Filed Jan. 24, 1920. Serial No. 353,843. 3 Claims. (Cl. 74—51.)



3. A belt guide attachment of the character specified comprising a plurality of members, a shaft carried by the outer ends of said members, pulleys loosely mounted upon

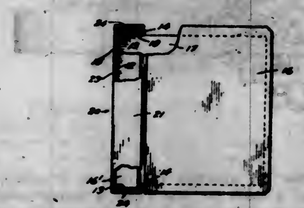
said shaft, vertically arranged rollers mounted upon said shaft between and to the side of said pulleys for facilitating the retaining of a belt upon said pulleys and means for detachably securing said members to a tractor or analogous motive power.

1,394,706. BAKING-OVEN. WARWICK HENRY BRANES, Peterborough, England. Filed Aug. 24, 1920. Serial No. 405,733. 1 Claim. (Cl. 107—37.)



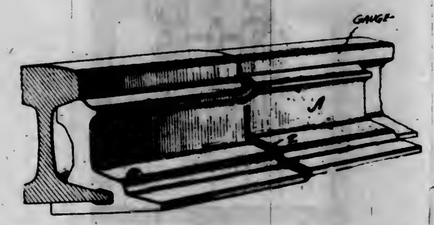
In baking ovens, the combination with a continuous baking chamber and an endless conveyer extending through said chamber, of means for imparting differential heating effects in different zones of the said chamber, said means comprising a series of independent furnaces ranged along the chamber and tubular elements projecting into said furnaces and disposed in groups of varying heating capacities in the respective zones of the chamber, as set forth.

1,394,707. LOOSE-LEAF BINDER. DIRCK C. BENEDICT, South Bellingham, Wash. Filed Sept. 11, 1919. Serial No. 323,082. 2 Claims. (Cl. 129—18.)



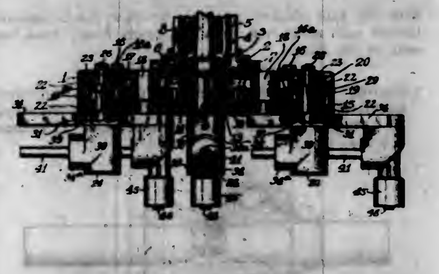
1. In devices of the class described, a binder comprising a hollow holding member open at the top and having an opening at the front of a length less than the width of the member, cover carrying strips adapted to be inserted within said member through the top opening thereof, and a casing member having an opening at its front side to receive the aforesaid holding member and afford a closure for the opening in the top thereof.

1,394,708. PROCESS FOR MAKING STEP-JOINTS. BANCROFT G. BRAINE, New York, N. Y., assignor to The Rail Joint Company, a Corporation of New York. Filed Nov. 5, 1919. Serial No. 335,872. 15 Claims. (Cl. 29—169.)



1. The process for making a stepped bar for rail joints which consists first in slotting a part of the bar producing along the line of the slot a bending easement, and subsequently pressing into stepped relation the portion of the bar at opposite sides of the slot.

1,394,709. DRILL-HEAD. JOSEPH F. BUHR, Detroit, Mich. Filed Jan. 11, 1919. Serial No. 270,846. 8 Claims. (Cl. 77—24.)



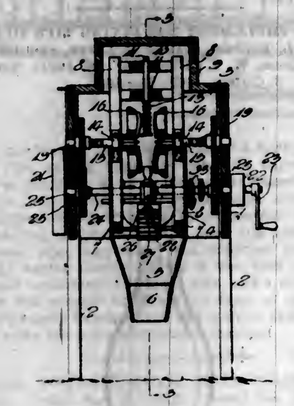
1. The combination of a drill head, rotatable housings carried by the lower face thereof, drill sockets supported from said housings and adjustable circumferentially and to and from said housings, and means including elements slidable through said housings adapted to transmit power through said head and housings for operating said drill sockets.

1,394,710. TEMPER-SCREW. JOSEPH BURNS, Okmulgee, Okla. Filed Jan. 9, 1919. Serial No. 270,322. 1 Claim. (Cl. 287—61.)



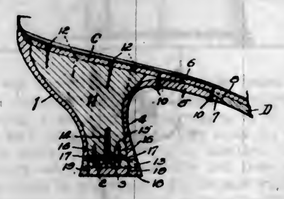
In an arrangement of the character described, a tubular temper screw, a swivel bar with which the lower end of the temper screw has a rotatable connection, and a rod extending through the temper screw and below the lower end thereof and having an integral cross piece at its lower extremity, said cross piece being secured to the swivel bar.

1,394,711. AUTOMATIC FISH-CLEANER. CHARLES H. CARTER, Farmers Fork, Va. Filed Apr. 11, 1921. Serial No. 460,299. 8 Claims. (Cl. 17—10.)



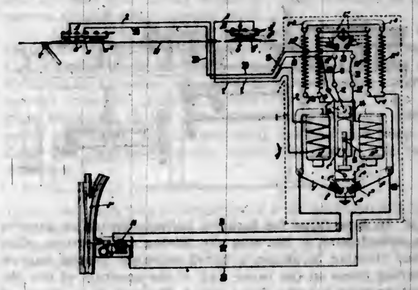
1. A fish scaling and cleaning machine comprising means for scaling a fish, a rotary shaft having radiating arms provided with blades adapted to slit the belly of the fish, and scrapers associated with said arms and blades for removing the offals as the fish is scraped.

1,394,712. SHOE-HEEL. ABRAHAM COHEN, St. Louis, Mo. Filed Nov. 10, 1919. Serial No. 336,830. 1 Claim. (Cl. 36—40.)



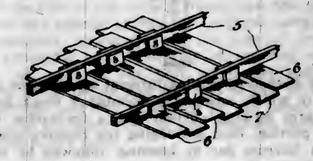
A heel for ladies' shoes comprising an aluminum shell having an open top and a closed tread end provided with a plurality of openings, a fibrous plug of the same contour as the shell cavity frictionally held within the cavity and filling the same with its lower face in contact with the inner face of the closed tread end of the shell, an inner lift in contact with the lower face of the closed tread end of the shell, a screw threaded fastener passing through the inner lift, one of the openings in the closed tread portion of the shell and embedded in the lower end of the fibrous plug, nails passing through the inner lift, the remaining openings in the closed tread end of the shell and embedded in the fibrous plug, an outer lift engaging the inner lift and nails driven through the outer and inner lifts and clenched against the lower face of the closed tread end of the shell.

1,394,713. SWITCH-OPERATING MECHANISM. ROY VINSON COLLINS, West Newton, Mass. Filed July 21, 1915. Serial No. 41,064. 51 Claims. (Cl. 246—242.)



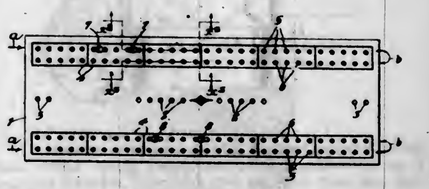
4. In combination, a switch, a motor, connections between said switch and said motor, a main feed conductor, and means to control a circuit to operate said motor from said main feed conductor comprising means to regulate the voltage between said main feed conductor and said motor.

1,394,714. CONSTRUCTION OF CEILINGS. THOMAS CULSHAW, Malvern, Victoria, Australia. Filed Oct. 13, 1919. Serial No. 330,318. 1 Claim. (Cl. 20—6.)



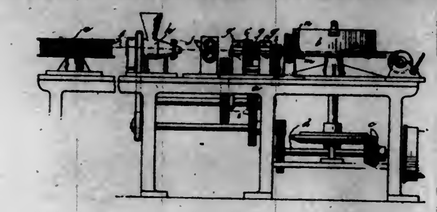
A ceiling structure comprising joists, hangers secured to the joists at spaced intervals and projecting below the joists, panels secured to the joists at points between the hangers, and panels secured to the lower ends of the hangers and thereby arranged between and in a plane below the first named panels and forming spaces therebetween, said second named panels slightly overlapping the first named panels.

1,394,715. SCORING DEVICE. JOHN F. CULVER, Los Angeles, Calif. Filed June 9, 1920. Serial No. 387,627. 2 Claims. (Cl. 235—90.)



1. A scoring device comprising a board having recesses angled in the direction of scoring, and a score indicating element adapted to be positioned in the recesses to tilt in the direction of scoring.

1,394,716. MACHINE FOR SPIRALLY THREADING OR GROOVING WIRE. JOSEPH BARTLETT DAVIES, Melbourne, Victoria, Australia. Filed Aug. 7, 1919. Serial No. 315,956. 5 Claims. (Cl. 29—33.)



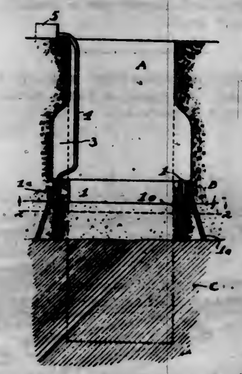
2. In a machine for forming helical threads or grooves on round wire, a drawing die having an aperture other than circular in shape, a flared entrance to and narrow bearing faces on the inner wall of the aperture of the die, said narrow bearing faces being disposed in a plane at right angles to the axis of the die, gearing for imparting rotation to the die, and a rotatable drawing block operated synchronously with the die to draw the wire therethrough substantially as described.

1,394,717. METHOD FOR SWAGING NEEDLE-ARMS AND FULCRUM-BARS. FRED H. DOSER, Grand Rapids, Mich., assignor to Cheney Talking Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 29, 1919. Serial No. 334,254. 2 Claims. (Cl. 29—148.)



1. The method of making integral needle arms and fulcrum bars which consists in forming a blank having a narrow arm forming portion and a transverse fulcrum forming portion, then developing the relative relation of arm and fulcrum bar by bending, followed by swaging, then flattening the arm, then trimming said blank away to the required shape and size, and then bending the arm to the ultimate arrangement of form and parts desired.

1,394,718. PROCESS FOR SEALING SHAFTS OR WELLS. WALTER E. EMERY, Peoria, Ill. Filed Sept. 19, 1918. Serial No. 254,714. 2 Claims. (Cl. 61—36.)



1. In the art of sinking wells, the process of sealing off a water bearing strata which consists in boring a series of holes which extend downwardly through the strata and are arranged in a series around the shaft, the upper ends of the holes being in communication with the shaft, filling the holes with a cement grout, and subjecting the grout to pressure whereby it is caused to percolate into the surrounding earth and to coöperate therewith to form a cement barrier around the periphery of the shaft.

1,394,719. IMPLEMENT FOR FIXING TIPS TO LACES. ALFRED L. EVENDEN, JAMES D. CASEY, and JOSEPH A. CASEY, Rome, N. Y. Filed Mar. 28, 1921. Serial No. 456,373. 3 Claims. (Cl. 81—15.)



1. A pair of pincers of the type described, one jaw of which being grooved in semi-circular fashion forming a die, the other jaw provided with a flange, forming a part thereof and bent in semicircular fashion forming a die, the space between said dies gradually decreasing from the end of the jaw to the rear, and in a direction toward the pivot, substantially as herein shown and described.

1,394,720. GARMENT-SUPPORTER. CHARLES L. FELTMAN, Brooklyn, N. Y. Filed Nov. 19, 1919. Serial No. 339,184. 2 Claims. (Cl. 241—6.)



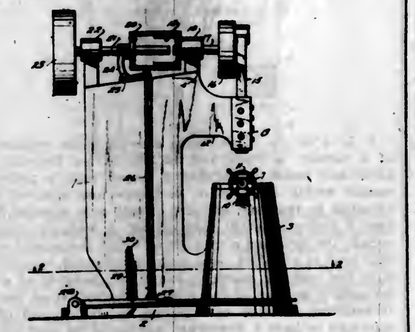
1. A garment supporter comprising a member adapted to engage and hold the garment to be supported, said member being provided with a garter-receiving slot, a portion of said slot being provided with teeth for holding the garter in adjusted position, the remaining portion of the slot being free of teeth whereby the garter may be adjusted in either direction in said slot.

1,394,721. GAS-BURNER. JOHN FESTA, Brooklyn, N. Y. Filed Apr. 27, 1920. Serial No. 376,997. 1 Claim. (Cl. 158—104.)



In a gas burner, the combination of a horisontal cylindrical pipe having openings along its upper side and closed at its ends, a mixing chamber integral with the said pipe, and having at its separate ends a communicating opening, a vapor supply pipe beneath the mixing chamber and parallel with the same and the horisontal cylindrical pipe, nipples for the openings in the latter pipe and having slotted orifices in line with and parallel with said horizontal cylindrical pipe, and a dividing plate in each slot adapted to divide the flame so that the nipples will supply two separate and distinct and continuous flames along the pipes and mixing chamber.

1,394,722. POWER-HAMMER. GUSTAV FOODE, Hoquiam, Wash. Filed Jan. 2, 1920. Serial No. 348,983. 1 Claim. (Cl. 78—17.)



In a power hammer, a frame, a guide bearing carried thereby, a reciprocating recessed head arranged in said guide bearing, a die removably arranged in the recessed portion of said head, a removable face block for said head adapted to cover said die when in position, means for actuating said head, a longitudinally and transversely recessed base block in alinement with the said guide bearing and beneath the same, the said recesses registering one with the other, clamping dies arranged in the transversely recessed portion of said base block, said dies being normally spaced apart in the plane of the said longitudinal recess, and manually operable means for operating said clamping dies.

1,394,723. TOLL-TELEPHONE SWITCHING APPARATUS. HERBERT M. FRIENDLY and ARCHIBALD E. BURNS, Portland, Oreg.; said Burns assignor to said Friendly. Filed June 7, 1915, Serial No. 32,767. Renewed Mar. 1, 1921. Serial No. 448,869. 47 Claims. (Cl. 179—43.)



4. In a telephone system, a first and a second line, a first station on the first line, a second station common to said lines, a polarized relay at the second station, means at the first station for controlling said polarized relay, a second relay under control of said polarized relay for interconnecting said lines, and a third relay operative over the first line having normally closed contacts in the control circuit of the second relay.

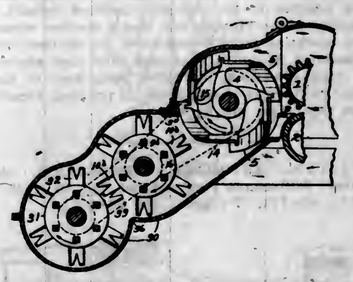
13. A telephone system comprising a telephone line, an operator's station on said line, a sending station on said line, a signal device at the operator's station, a relay at the operator's station responsive to code signaling ringing current from the sending station causing said lamp to glow according to the code signal and thereafter extinguish, and means for automatically causing said lamp to light and glow continuously upon cessation of the code signaling.

1,394,724. SPRING SUSPENSION FOR AUTOMOBILES. CHRISTIAN FREDRIKSEN, Croydon, near Sydney, New South Wales, Australia. Filed Oct. 14, 1919. Serial No. 330,554. 5 Claims. (Cl. 267—41.)



4. The combination with a vehicle frame and its axles, of an inverted longitudinally disposed suspension leaf spring rigidly fixed at its crown to an intermediate portion of the side of the vehicle frame, and two oscillating platform leaf springs having their central portions pivotally connected respectively to the side of the vehicle frame forwardly and rearwardly of the first mentioned spring, the ends of the first mentioned spring being pivotally connected to the rear end of one of said platform springs and the front end of the other platform spring, and the other ends of said platform springs being connected to the axles.

1,394,725. COMMINUTING ATTACHMENT FOR FEED-CUTTERS. ORLANDO C. FRICK, Manitowoc, Wis., assignor to Smalley Manufacturing Company, Manitowoc, Wis., a Corporation of Wisconsin. Filed Aug. 23, 1918. Serial No. 251,105. 6 Claims. (Cl. 146—29.)



1. A comminuting attachment for feed cutters having feed cutter heads, comprising the combination of a chamber adapted to receive cut material from the feed cutter head, and provided with a perforate wall, and a comminuting head located in said chamber and provided with a set of segmental shredding blades provided with forked extremities adapted to engage and sweep the material in a succession of agitating movements along said perforate wall surfaces, together with an auxiliary com-

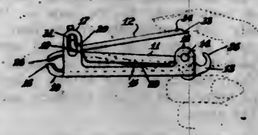
mounting head located in said chamber and provided with blades adapted to revolve in proximity to the blades of the first mentioned comminuting head, and co-acting therewith in the comminution of the material.

1,394,726. AIRPLANE-FUSELAGE. WILLIAM L. GILMORE, Port Washington, N. Y., assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y., a Corporation of New York. Original application filed June 11, 1919, Serial No. 303,501. Divided and this application filed Dec. 27, 1920. Serial No. 433,090. 8 Claims. (Cl. 244—30.)



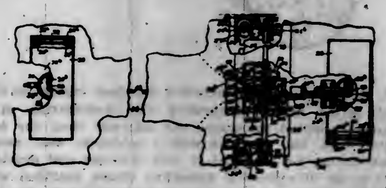
1. The method of assembling airplane bodies of the monocoque type which consists in first providing a suitable jig or stand, next placing thereon a given section of the outer shell of the body, next inserting within the open side of the shell section a substantial portion of the interior equipment of the body and thereafter placing over and upon the exposed equipment of the body a second shell section, which, in conjunction with the first mentioned shell section completes the outer shell of the body.

1,394,727. NAIL-CLIP. CHRISTIAN E. A. GRONBECH, Keene, N. H. Filed May 17, 1921. Serial No. 470,226. 6 Claims. (Cl. 30—28.)



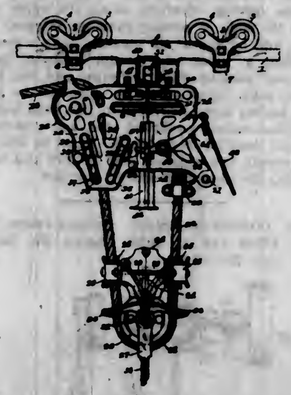
2. In a nail clip, the combination of upper and lower cutting members having coacting cutting edges at their forward ends, said lower member having upwardly extending front and rear lugs, said front lugs being slotted and said rear lugs having a pivot pin extending between the same, and said upper member having a curved bearing portion adapted to be removably inserted beneath said pin, spring means pressing said upper member upwardly, and an operating lever having pivot pin portions removably mounted in the slots of said front lugs above said upper cutting member, said lever being bent to form a shoulder to the rear of said pivot pin portions, adapted to bear on said upper cutting member.

1,394,728. AUTOMATIC GARAGE-DOOR. HARRY GROVES, Bellingham, Wash. Filed Nov. 15, 1920. Serial No. 424,174. 7 Claims. (Cl. 268—9.)



1. In an automatic, door-operating device in combination, a swingable door, two depressible platforms in the way closed by said door, one of said platforms on each side of said door, automatic means to raise said platforms after being depressed, and means adapted to swing said door a predetermined part of a rotation once forward and once backward for each four consecutive times either or alternately both of said platforms are depressed, said first depressing adapted to cause said door to swing open, said second and third depressings adapted to have no operable effect on said door, and said fourth depressing adapted to close said door.

1,394,729. HAY-CARRIER. WILLIAM GUTENKUNST, Milwaukee, Wis. Filed June 3, 1920. Serial No. 386,170. 6 Claims. (Cl. 212—112.)



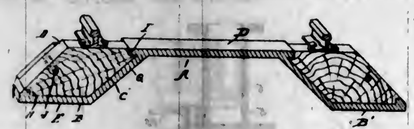
1. In a device of the class described, the combination of a carrier, a block and tackle carried thereby, said block and tackle comprising a looped rope, a pulley arranged within the loop of said rope and adapted to be attached to the load, one end of said rope passing freely over a pulley adjacent said carrier, a wedging clamp to engage the rope and a member to which the second end of said rope is attached, said member arranged to coöperate with the wedging clamp to cause the clamping of an intermediate portion of the rope by the weight of the load transmitted through said second mentioned end of the rope and to have a downward motion of its working portion during the clamping action.

1,394,730. JAM-NUT. WILBUR O. HATTER, Klamath Falls, Oreg., and GUST A. FRISK, Gridley, Calif. Filed Aug. 31, 1920. Serial No. 407,118. 1 Claim. (Cl. 151—30.)



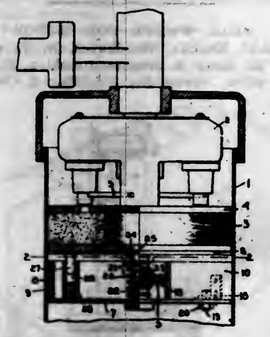
A locking nut comprising a flat polygonal body having a screw threaded opening extending therethrough, said nut having a slit extending in a plane diagonal to the axis of the opening to provide overlapping acute angled outer and under portions, the said portions being displaced longitudinally of the axis of the opening with respect to each other, the under portion having a recess extending from the side of the nut inward toward the opening whereby one jaw of a clamping tool may be inserted in said recess and the other jaw applied to the face of the outer overlapping portion to draw said portions toward each other.

1,394,731. RAILWAY-TIE. JOHN G. HOGAN, Detroit, Mich. Filed June 11, 1921. Serial No. 476,688. 5 Claims. (Cl. 238—30.)



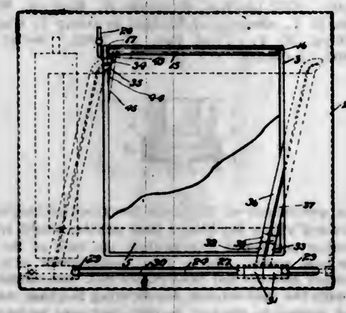
1. A railway tie comprising a metallic member having recessed end portions open at the top and the outer end thereof, and a flat connecting tie portion between said end portions in the plane of the top and wooden inserts filling the recesses.

1,394,732. WINDING-MACHINE. CHARLES W. HUBBARD, Weston, Mass. Filed Sept. 25, 1919. Serial No. 326,177. 5 Claims. (Cl. 118—49.)



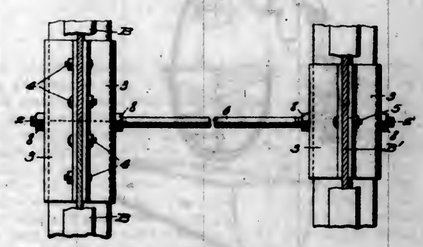
1. In a device of the class described, the combination with a yarn container, of means to wind a yarn mass therein in transverse layers, and a yarn support for the yarn mass, said yarn support comprising a plate on which the yarn rests, a friction member having frictional engagement with the yarn container, and a yielding connection between said plate and friction member.

1,394,733. RECORDING APPARATUS. HARRY H. HUBBARD, Grand Rapids, Mich. Filed Apr. 1, 1919. Serial No. 286,752. 22 Claims. (Cl. 282—1.)



1. In a device of the character described, a supporting table for carrying flat sheets of paper, and means mounted to move across the table and draw carbon or like reproducing paper over the table and between the sheets, said means being also movable in the opposite direction to disassociate the carbon entirely from the paper substantially as described.

1,394,734. ANTISPREADING DEVICE FOR RAILWAY-RAILS. MATHEW JICHA, Bridgeport, Ohio. Filed June 21, 1921. Serial No. 479,364. 3 Claims. (Cl. 238—53.)



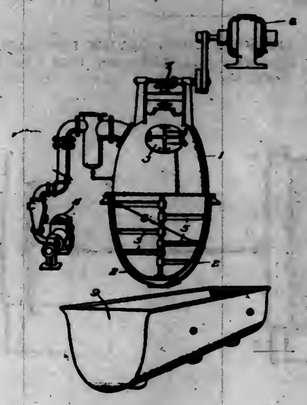
1. An anti-spreading device for railway rails, comprising a pair of oppositely arranged anchoring devices; each of said devices consisting of a pair of bars of angle-bar form for mounting in embracing relation to opposite sides of a rail, and apron-like anchor members formed integral with and depending vertically from said bars; each of said members having inturned vertically disposed wings adapted to have their upper edges disposed in underlying seated relation to a rail, and a transverse rod for connecting said anchoring devices and maintaining the latter in spaced relation.

1,394,735. VENTILATOR APPARATUS. PAUL R. JORDAN, Indianapolis, Ind. Filed Aug. 31, 1918. Serial No. 252,246. 3 Claims. (Cl. 236—45.)



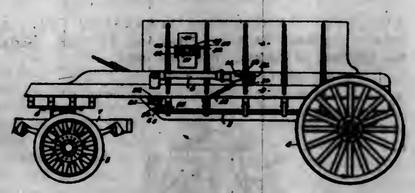
1. A ventilator apparatus including a vertical draft flue, two separate baffle plates horizontally arranged stationarily in the flue on one and the same plane at its opposite sides respectively, and two regulating valves spaced apart and pivotally supported in the flue at two other side portions thereof and below the plane of the baffle plates, the valves being adapted to automatically cooperate each with the other and with the baffle plates respectively to variably limit the draft area between the valves and also between the valves and the respective baffle plates.

1,394,730. PROCESS OF RENDERING FATS AND OILS. CHARLES FREDERICK KAMRATH, Omaha, Nebr. Filed Nov. 15, 1919. Serial No. 338,249. 2 Claims. (Cl. 87—13.)



1. The herein described process of rendering animal and vegetable fats to produce edible neutral products that consists in simultaneously heating the fats to a temperature of substantially 145°–170° F., agitating the fats, and subjecting the fats to a vacuum of from 12 to 20 inches.

1,394,737. TRAILER-SUPPORTING MEANS. CLYDE C. KESSLER, Canastota, N. Y., assignor to Watson Wagon Company, Canastota, N. Y., a Corporation of New York. Filed Dec. 22, 1916. Serial No. 138,352. 3 Claims. (Cl. 254—86.)



1. The combination with a semi-trailer having a fifth wheel section at its front end for engagement with the tractor, of a leg for supporting the front end of the body of the semi-trailer and a socket on the body of the semi-trailer alined with said joint for receiving a portion of the leg when in its upright position, substantially as and for the purpose specified.

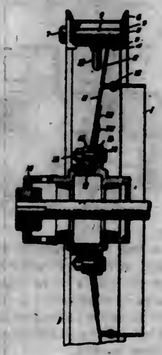
1,394,738. SWITCHING-VALVE. CHARLES WILLIS KINTNER, Wellsburg, and GEORGE Z. SMITH, Follansbee, W. Va., assignors to Fuller-Lehigh Company, Fullerton, Pa., a Corporation of Pennsylvania. Filed Feb. 14, 1919. Serial No. 276,953. 4 Claims. (Cl. 251—13.)

1. In a valve structure, a member provided with a valve seat and a plurality of outlets, a disk valve, a pivot pin carried by the disk valve and extending in a plane approximately parallel to the plane of the disk valve, an arm having an eye receiving the pin, the eye having its opposite ends flared outwardly to allow the pin and thereby the valve to have rocking movement relative to the arm, a shaft to support the arm to allow the latter to oscillate substantially parallel to the plane of the valve, means to operate the shaft to open or close a selected outlet, said valve having its periphery beveled to a knife edge so as to have a shearing action on the valve seat and to



cut through any matter adhering to the seat, and a set screw impinged against the shaft to adjustably hold the valve to its seat.

1,394,739. REAR WHEEL FOR MOTOR-VEHICLES. WILLIAM H. KLOCKE, Woodhaven, N. Y., assignor of one-half to Harry F. Hughes, Brooklyn, N. Y. Filed Feb. 2, 1920. Serial No. 355,729. 5 Claims. (Cl. 301—6.)



2. A disk wheel embodying a rim, a hub, a brake drum rigidly mounted on the rim, and a disk secured to the hub and extending to and secured to the brake drum.

1,394,740. NUT-LOCK. WILLIAM H. KLOCKE, Woodhaven, N. Y., assignor of one-half to Harry F. Hughes, Brooklyn, N. Y. Filed Feb. 27, 1920. Serial No. 361,802. 6 Claims. (Cl. 151—38.)



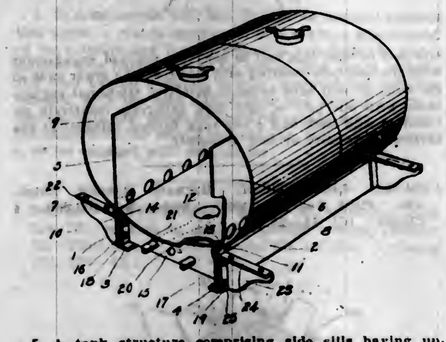
1. An assemblage of the class described embodying a nut provided with a flat base, a base washer, a split spring lock washer positioned intermediate the base of the nut and the base washer and in direct engagement with the base washer and the flat base of the nut, and means, integral with the base washer, for securing the base washer and lock washer to the nut, so that they may be handled as a unit, while permitting of manual rotation between the parts.

1,394,741. NUT-LOCK. WILLIAM H. KLOCKE, Woodhaven, N. Y., assignor of one-half to Harry F. Hughes, Brooklyn, N. Y. Filed June 8, 1920. Serial No. 387,297. 4 Claims. (Cl. 151—38.)



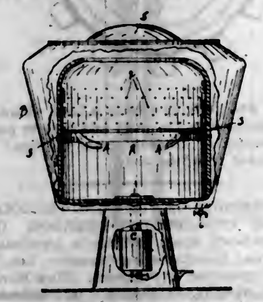
1. An assemblage of the class described embodying a nut provided on a plurality of its faces with grooves or channels, a spring lock washer positioned adjacent the base of the nut and a base washer positioned adjacent the distant face of the lock washer, in combination with a plurality of arms bent in the direction of the nut and flanged over the distant face thereof, said arms occupying the channels or grooves in the faces of the nut, and a plurality of fingers associated with the base washer and extending in a direction of the lock washer and overlying the outer circumference thereof, said fingers coöperating with the arms to maintain the lock washer and nut in associated alined relation.

1,394,742. VEHICLE-TANK STRUCTURE. ANDREW A. KRAMER, Kansas City, Mo. Filed Apr. 14, 1920. Serial No. 373,977. 5 Claims. (Cl. 280—5.)



5. A tank structure comprising side sills having upwardly extending integral surge sheets, and a tank secured to the side sills below the surge sheets.

1,394,743. CENTRIFUGAL BASKET. EMERY E. LA DUKE, Salt Lake City, Utah. Filed Aug. 2, 1921. Serial No. 489,242. 4 Claims. (Cl. 233—2.)



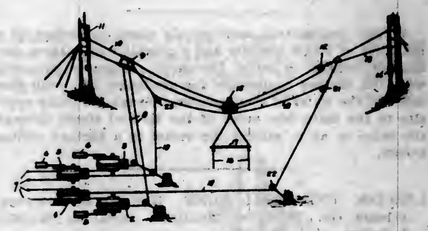
1. In a centrifugal basket the combination with a stationary casing of a cup-shaped metal basket having perforation in the upper portion of its side wall; and a flange member secured on the inner wall of said basket adjacent the lower of said perforations.

1,394,744. GRAVITY LABELING-MACHINE. ANTONIO LAPATA, Harbor City, Calif. Filed Aug. 23, 1920. Serial No. 405,831. 1 Claim. (Cl. 216—58.)



A labeling machine for cylindrical containers comprising an inclined way, a paste reservoir, spaced rollers in said reservoir with their surfaces tangential to said way, an impeller having arms disposed in the path of travel of said containers so that movement of the containers will rotate said impeller, said impeller being geared to said rollers so as to rotate the latter and carry paste to the surface of the container, a label holder disposed so that said containers will roll over and in contact with the top of a stack of labels therein, and pick up labels, and means on said holder to advance said stack, said means being actuated by the travel of said container.

1,394,745. LOGGING APPARATUS. DAVENPORT LAWSON, Elk, Calif., assignor to Goodyear Redwood Co., Elk, Calif., a Corporation of Maine. Filed Jan. 17, 1921. Serial No. 437,692. 10 Claims. (Cl. 212—90.)



1. A logging apparatus comprising a pair of drums, means for operating the drums, a tail block removed from the drums, a lifting line passing around the tail block and with an end wound on each drum, and a traveler supported on both spans of the lifting line.

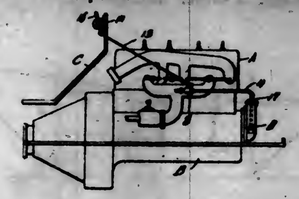
1,394,746. PROCESS OF MANUFACTURE OF A PLASTIC PRODUCT. CHARLES EMILE HENRI LEROY and FÉLIX MARIE JOSEPH ANTOINE CLAIRBEAUX, Versailles, France. Filed July 18, 1919. Serial No. 311,750. 2 Claims. (Cl. 18—48.)

1. A process of manufacturing a plastic product comprising: melting gelatin or glue, mixing it during fusion, with glycerin or complementary product, casting the mass in plates or blocks which are cut in small pieces, drying these pieces, transforming the mass in plates, dipping it in formol and drying it thoroughly.

1,394,747. ATTACHMENT FOR INTERNAL-COMBUSTION ENGINES. BERT M. LITTLE, Hamilton, Ontario, Canada. Filed Dec. 2, 1920. Serial No. 427,900. 2 Claims. (Cl. 123—119.)

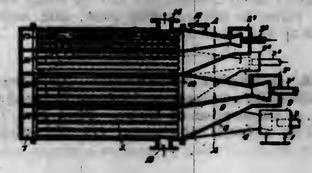
1. An attachment for internal combustion engines including an induction pipe, one end of which is extended into the breather pipe of the engine and equipped with a

funnel-shaped head to direct the hydro-carbon fumes from said breather pipe into said induction pipe, the opposite



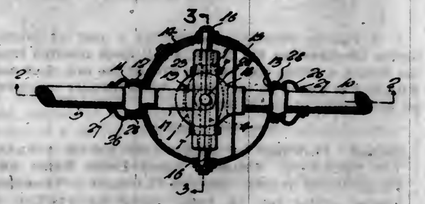
end of said induction pipe being extended into the intake manifold of the engine substantially as described.

1,394,748. AIR-PUMP FOR CONDENSERS. FREDRIK LJUNGSTRÖM, Brevik, Lidingön, Sweden, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden, a Corporation. Filed May 28, 1919. Serial No. 300,295. 3 Claims. (Cl. 230—13.)



1. The combination with an air pump consisting of a plurality of steam ejectors and a plurality of surface condensers coupled in series therewith, of means connected with the surface condensers for rendering the main flow order of the water of condensation through the pump opposite to the main flow order of the air and steam through the same so as to subject the steam to a further cooling action.

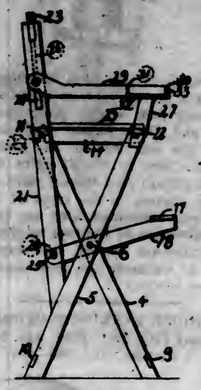
1,394,749. UNIVERSAL JOINT. RICHARD H. LOWNDES, Atlanta, Ga. Filed Dec. 20, 1920. Serial No. 431,952. 6 Claims. (Cl. 64—95.)



6. A universal joint comprising a casing or guide having end sections positioned in overlapping relation and having neck extensions, a securing pin pivotally connecting said end sections, shaft sections extending through and fulcrumed in the neck extensions, a yoke bar rotatably and slidably mounted upon said yoke bar, and heads at the inner ends of the shaft sections having arms pivotally connected with the ring and yoke bar.

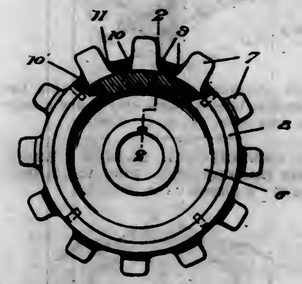
1,394,750. FURNITURE. ARTHUR H. LUEDDE, St. Louis, Mo. Filed May 16, 1921. Serial No. 470,171. 1 Claim. (Cl. 155—145.)

A chair having two pairs of legs, each pair rotatively secured to each other and to a rod which rod holds each pair of legs in constant spaced relationship, a seat rotatively secured to one pair of said legs and in selective notching engagement with the other pair of said legs, a foot-rest secured together by two members in rotative engagement on the rod, on which said pair of legs are rotatively secured, a back, said back rotatively secured to



one pair of said legs and in selective notched engagement with the members securing said foot-rest, the lower ends of the rails of said back being in selective frictional engagement with one pair of said legs, arm-rests rotatively secured to said back and a toy rack formed integral at the external extremity of said arm-rests.

1,394,751. GEAR-WHEEL. RICHARD MARLOW, Ralph, Ala. Filed Aug. 10, 1920. Serial No. 402,659. 4 Claims. (Cl. 74—28.)

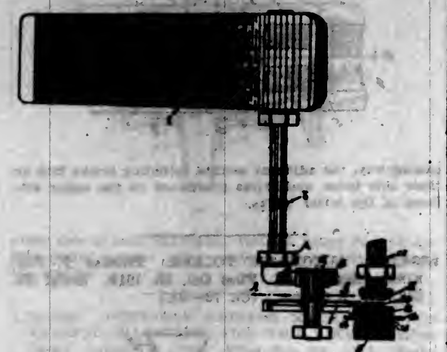


1. A gear wheel having a body, a band embracing same, and teeth anchored in the band and held in place by the body and removable inwardly from the band when the band is removed from the body.

1,394,752. METHOD OF TREATING CELLULOSE ACETATE AND THE PRODUCT THEREOF. GEORGE W. MILES, Sandwich, Mass., assignor to American Cellulose and Chemical Manufacturing Company, Ltd. New York, N. Y., a Corporation of Delaware. Filed Nov. 14, 1919. Serial No. 338,131. 4 Claims. (Cl. 106—40.)

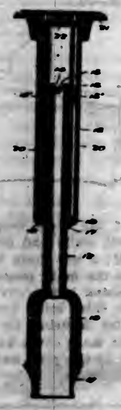
1. The method of rendering cellulose-acetate receptive to uniform distribution of glycerin in small quantities throughout the acetate, which consists in first heating cellulose acetate in admixture with an abundance of glycerin, then eliminating glycerin by washing with water.

1,394,753. MOTORCYCLE-ENGINE STARTER. ANTOINE DIDIER MOULIN, Paris, France. Filed Aug. 26, 1920. Serial No. 406,261. 2 Claims. (Cl. 74—54.)



1. In combination with the shaft of an internal combustion motor, a clutch member on said shaft, a gear mounted for rotation and for movement to and from the clutch member and having means to engage said clutch member and also having a flange, a gear mounted for rotation, engaged with the first named gear and having a cam to contact with the flange of the first named gear, a pinion revoluble with the second named gear, and a lever having a sector engaged with said pinion.

1,394,754. SERVICE-BOX. ROBERT H. MUELLER, Decatur, Ill., assignor to Adolph Mueller, trustee, Decatur, Ill. Filed May 11, 1917. Serial No. 167,950. 2 Claims. (Cl. 137—13.)



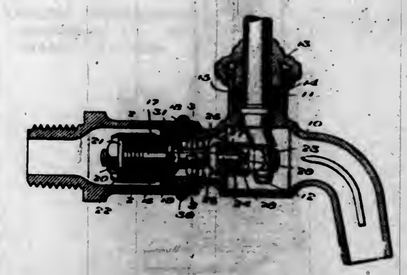
1. The combination, in a service box, of a lower member having an enlarged housing at its lower end and a reduced section extending therefrom, an upper member of larger diameter than said reduced section, which upper member has an unobstructed interior to permit free longitudinal adjustment of that member relative to said reduced section, an annularly grooved head at the lower end of said upper section closely embracing said reduced section to make a snug joint therewith, a friction ring seated in the annular groove of said head to grip said reduced section and maintain the parts in adjusted position, and a head carried at the upper end of said reduced section and interlocked with said upper section against rotation but free to move longitudinally therein.

1,394,755. COMBINED FOUNDATION-PLATE AND TEMPLET. PHILIP MUELLER and ANTON C. SCHUERMANN, Decatur, Ill., assignors to Adolph Mueller, trustee, Decatur, Ill. Filed Aug. 27, 1919. Serial No. 320,187. 13 Claims. (Cl. 269—8.)



1. A combined foundation plate and templet comprising a body portion having the required gage opening therein and supporting lugs rising from said plate.

1,394,756. ELASTIC-VALVE STEM. PHILIP MUELLER and ANTON C. SCHUERMANN, Decatur, Ill., assignors to Adolph Mueller, trustee, Decatur, Ill. Filed Aug. 27, 1919. Serial No. 320,256. 5 Claims. (Cl. 251—40.)

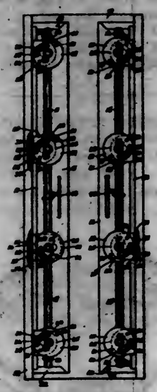


3. In a cock or faucet of the Fuller ball type, the combination of a cock body having a valve seat, an elastic ball valve, an eccentric valve operating stem, an eccentric strap on said stem, a telescope connection between said valve and strap, and a spring in said connection to permit said valve to be brought yieldingly against its seat.

1,394,757. EMERY-CLOTH HOLDER. HENRY MÜLLER, Waterbury, Conn. Filed Mar. 17, 1921. Serial No. 453,106. 4 Claims. (Cl. 51—187.)

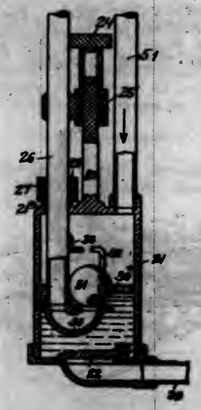
1. An emery-cloth holder, consisting of two uniform block-members, each formed with a centrally-arranged longitudinal groove, clamps mounted in each member and adapted to clamp the opposite edges of a strip of abrasive

material, eyes mounted on the respective members, a spindle adapted to pass through said eyes, whereby the two



block-members are connected together and a handle applied to said spindle.

1,394,758. LIQUID-DISPENSING APPARATUS. EDWARD E. MURPHY, Winchester, Mass. Filed July 28, 1916. Serial No. 111,827. 11 Claims. (Cl. 225—21.)



1. In apparatus of the class described, a measuring chamber provided with an outlet arranged to be raised and lowered relatively to said chamber, a valve arranged to seat on said outlet, said valve being movable from its seat by the rise of liquid in said chamber, and guiding means for insuring the return of said valve to its seat when the valve is permitted to descend.

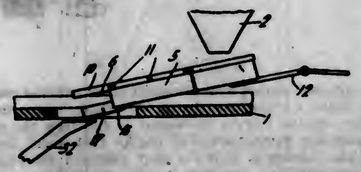
1,394,759. BRICK. JAMES ALEXANDER PAPOT, Tucson, Ariz. Filed Dec. 11, 1920. Serial No. 429,991. 2 Claims. (Cl. 72—102.)

1. In a wall construction, bricks arranged to provide opposed stretcher rows, alternate built-up sections disposed between the stretcher rows, one of said sections including bricks laid on their side faces and having their adjacent edges disposed in spaced relation to provide a



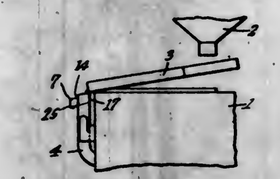
passageway, the adjacent section including bricks laid on their side faces, and bricks positioned on the upper side faces of the latter bricks.

1,394,760. AUTOMATIC TOLLER. THOMAS F. PERKINS, Atlanta, Tex. Filed Oct. 28, 1919. Serial No. 332,787. 3 Claims. (Cl. 73—21.)



1. In a grinding mill, a main chute; a reduced toll chute receiving material from the main chute; means for regulating the amount of material received by the toll chute; and means independent of said regulating means, for closing the toll chute completely with respect to the main chute, at the will of an operator.

1,394,761. GRAIN-TOLLER. THOMAS F. PERKINS, Atlanta, Tex. Filed Nov. 1, 1919. Serial No. 335,055. 3 Claims. (Cl. 73—21.)

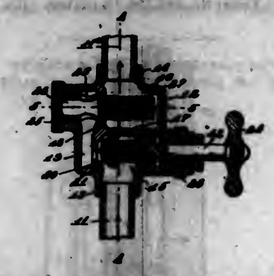


1. In a device of the class described, a main chute having front and rear walls and provided with an opening in the front wall; a toll chute located in the opening and extended across the main chute, the toll chute comprising members having sides, overlapped bottoms and overlapped ends, the sides being provided with outstanding wings; means for securing the wings adjustably to the front wall of the main chute and means for securing the ends adjustably to the rear wall to permit a change in the width of the chute.

1,394,762. COMBINED STOPCOCK AND STRAINER. ANTON C. SCHUMMANN, Decatur, Ill., assignor to Adolph Mueller, trustee, Decatur, Ill. Filed May 21, 1918. Serial No. 235,796. 10 Claims. (Cl. 210—166.)

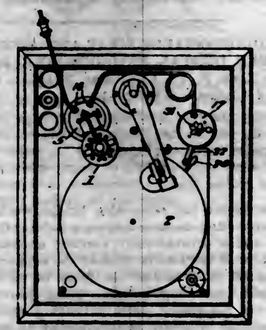
1. A fitting of the class described, comprised a casing having inlet and outlet ports, a diaphragm dividing said casing into inlet and outlet chambers, a valve controlling

flow through one of said chambers, a strainer on one side of said diaphragm, and a hollow ported member on the



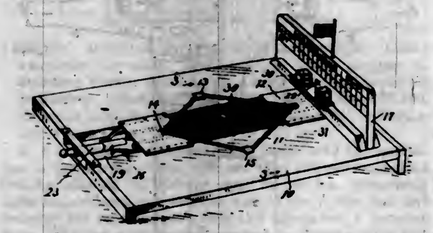
other side of said diaphragm, through which flow passes, said ported member being removable to permit access to the strainer.

1,394,763. PORTABLE DRIVING MECHANISM FOR TALKING-MACHINES AND THE LIKE. WALTER SCOTT, Lakewood, Ohio. Filed Feb. 19, 1921. Serial No. 446,232. 8 Claims. (Cl. 172—179.)



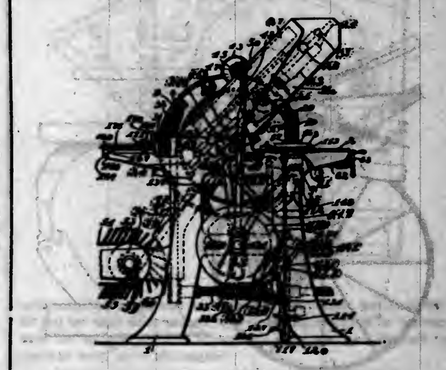
1. In an independent operating unit for talking machines and the like, the combination with a turntable and the usual hand lever for starting and stopping said turntable, of a portable motor adapted to be mounted to drive said turntable, and a portable switch mechanism for said motor, positioned adjacent to and adapted to be controlled by the aforesaid hand lever.

1,394,764. BASEBALL GAME. NICHOLAS I. SHEEHAN, Lakewood, Ohio. Filed Dec. 29, 1919. Serial No. 347,982. 16 Claims. (Cl. 46—61.)



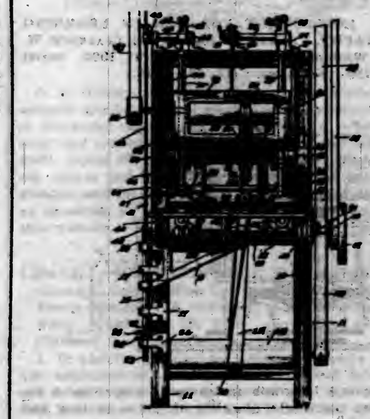
1. A game comprising a playing board having a course for a projectile, impelling means for the projectile located adjacent one end of the course, a movable indicating device, and means for shifting the same comprising a movable element supported adjacent the other end of the course and having a part thereof in the plane of movement of the projectile so that it may be actuated thereby.

1,394,765. PRINTING-PLATE-TRIMMING MACHINE. JACOB SIMPSON, Washington, D. C. Filed Feb. 20, 1919. Serial No. 278,228. 69 Claims. (Cl. 29—21.)



1. A machine for trimming plates, including a carrier, means for centering a plate upon the carrier at one position of the carrier, and cutters for trimming the plate at another position of the carrier, said cutters being adjustably mounted and being operatively connected with the centering means so as to be automatically positioned in the proper manner for cutting when the plate is centered upon the carrier.

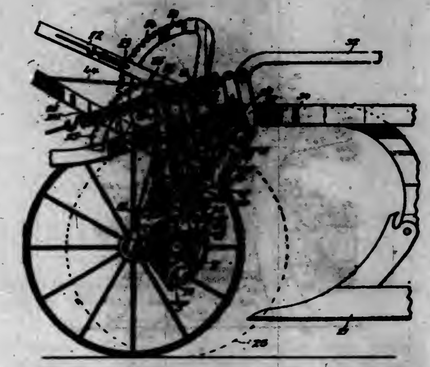
1,394,766. BORING-MACHINE. CHARLES ALVAH SMITH, Brattleboro, Vt. Filed July 15, 1919. Serial No. 310,923. 7 Claims. (Cl. 144—93.)



1. A boring machine comprising a tool supporting frame, a table swingingly connected at one end to said tool supporting frame for movement about a vertical axis to and from the same, a reciprocating platform mounted

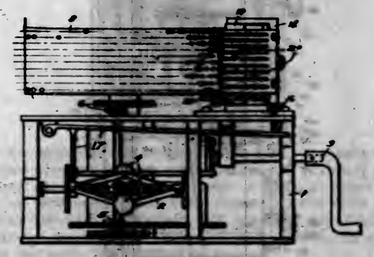
on said table, and a platform counterbalancing device mounted in part on said table and in part on said frame and having means whereby the same is operative regardless of the position of said table.

1,394,767. PLOW-LIFT. Henry S. Smith, Dixon, Ill., assignor, by mesne assignments, to J. I. Case Threshing Machine Company, Racine, Wis., a Corporation of Wisconsin. Filed Dec. 14, 1918. Serial No. 266,690. 7 Claims. (Cl. 97—54.)



1. Power lift mechanism for agricultural implements, comprising a main frame, an earth-turning body mounted on said frame, a ground wheel for supporting said frame, an arm having one end pivotally mounted in said frame and having the other end provided with means rotatably securing said ground wheel, a link pivotally connected at one of its ends to said frame, a second link pivotally connected at one of its ends to said arm, the other ends of said links being pivotally connected together, and means actuated by said ground wheel for applying force to said links for rocking said arm in said frame to elevate the latter.

1,394,768. INSTRUMENT FOR USE IN LEARNING TELEGRAPHY. James B. Smith and Clarence W. Burgess, Washington, D. C. Filed May 21, 1920. Serial No. 383,189. 8 Claims. (Cl. 178—115.)



1. A learner's telegraph instrument, comprising a rotatable drum carrying a plurality of circles of long and short contacts, an equal number of contact arms arranged to bear on said contacts, means engaging all of said arms and shaped to allow only one of them to occupy operative position at any one time, and connections between said drum and means whereby the latter is moved from time to time to bring another arm into operative position.

1,394,769. DRILL-HEAD FOR OIL-WELLS. Geo Stevenson, Houston, Tex., assignor to C. B. Reed. Filed May 18, 1920. Serial No. 382,256. 6 Claims. (Cl. 255—61.)



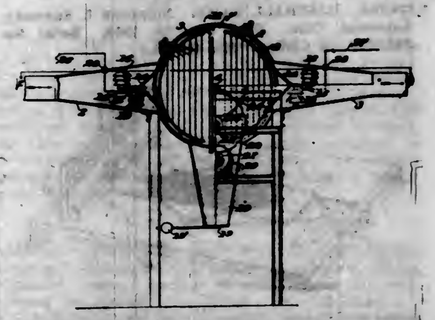
1. A deep well rotary drilling apparatus comprising a head, roller cutting means mounted thereon, and a cutter pivotingly mounted on the head and normally cutting at a point beyond the roller cutting means and receding to bring said roller cutting means into action on encountering hard material, substantially as described.

1,394,770. HORIZONTALLY-SPLIT ATTACHMENT FOR REMOVABLE DENTAL BRIDGEWORK. John Yerkian, New York, N. Y. Filed Mar. 2, 1921. Serial No. 449,026. 4 Claims. (Cl. 32—12.)



1. An attachment for removable bridge work comprising a solid supporting member having a substantially vertical portion, and a substantially vertical anchoring member secured to said vertical portion of the supporting member and adapted to fit within an inlay of an anchoring abutment, said anchoring member being provided with a substantially horizontal split extending through said anchoring member whereby it is adapted to engage the inlay in which it is adapted to fit with an adjustable frictional engagement.

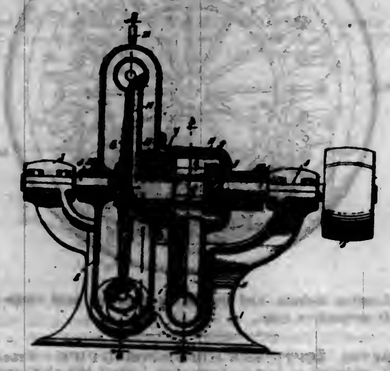
1,394,771. APPARATUS FOR THE ELECTRICAL TREATMENT OF GASES. Harold J. Ehrhard, Easton, Pa., assignor to Research Corporation, New York, N. Y., a Corporation of New York. Filed May 7, 1918. Serial No. 233,101. 10 Claims. (Cl. 183—7.)



1. Apparatus for the electrical treatment of gases, comprising a movably mounted disk-shaped electrode, a

stationary filamentary electrode substantially parallel to the side of the disk and means for passing the gas to be treated through the space intermediate the said electrodes.

1,394,772. TURBINE. Frederick Ernest Kuhn, Clinton, Iowa. Filed June 28, 1920. Serial No. 392,157. 2 Claims. (Cl. 253—53.)



1. A turbine, comprising a stator, a rotor in the stator having a circumferential passage discharging into the stator and having an axial inlet passage and a radial passage connecting the axial inlet with the inlet end of the circumferential passage, abutments in the circumferential passage, valves in the circumferential passage adapted when in closed position to but partially close the passage, and governor arms connected to said valves and operated b ythe rotary motion of the rotor.

1,394,773. ANTIDIMMING COMPOSITION. Harry A. Kuhn, Edgewood, Md. Filed Jan. 24, 1921. Serial No. 439,665. 11 Claims. (Cl. 134—27.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

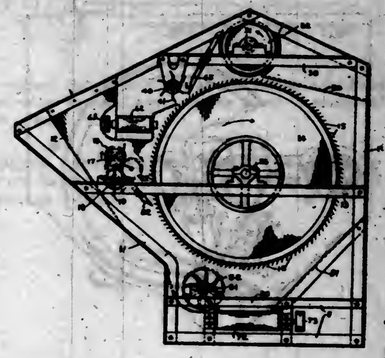
5. An anti-dimming composition comprising the reaction products of a salt of sulfonated rape oil, an alkali, a mineral oil and a binder.

1,394,774. ANTIDIMMING COMPOSITION. Harry A. Kuhn, Edgewood, Md. Original application filed Jan. 24, 1921, Serial No. 439,665. Divided and this application filed May 13, 1921. Serial No. 469,394. 4 Claims. (Cl. 134—27.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. An anti-dimming composition comprising the reaction products of a salt of sulfonated cotton seed oil, an alkali, a mineral oil and a binder.

1,394,775. MACHINE FOR TREATING COTTON. James Franklin Leverino, Atlantic City, N. J., assignor to Standard Cotton Company of America, a Corporation of Delaware. Filed Nov. 12, 1919, Serial No. 337,390. Renewed July 22, 1921. Serial No. 486,805. 3 Claims. (Cl. 19—0.)

3. A machine for treating cotton comprising in combination a supporting frame and movable devices supported thereby adapted to operate upon the cotton, comprising agitators adapted to break the hull of the cotton boll and transfer the same onward into the apparatus, a rotating drum provided with fingers adapted to receive same and carry same onward, a knife adapted to scrape the fragments of hull and trash from the cotton as the same is carried onward by said rotating drum, rotating fingers adapted to take up said trash, a traveling apron adapted to receive said trash and convey the same out of the apparatus, a doffer brush adapted to remove said cotton from said rotating drum, a second knife adapted to remove from



said rotating drum any trash which may have not been removed by said first named knife, means adapted to convey said cotton out of the apparatus, and means adapted to operate said movable parts.

1,394,776. AUTOMATIC STOP MECHANISM FOR PHONOGRAPHS. Frank D. Lewis, West Orange, N. J., assignor to Pathe Freres Phonograph Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 30, 1919. Serial No. 348,880. 10 Claims. (Cl. 192—116.)

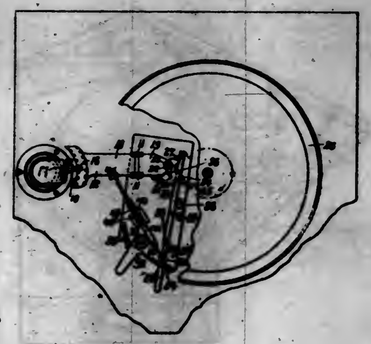


6. In automatic stop mechanism for phonographs, a movable member, control means therefor actuated by travel of the sound reproducing means across a record, a brake lever and retaining means therefor, a motor actuated element, means for releasing said brake lever from its retaining means interposable by movement of said movable member into the path of said motor actuated element, and an extension on said brake lever for operating said movable member.

1,394,777. AUTOMATIC STOP FOR PHONOGRAPHS. Frank D. Lewis, West Orange, N. J., assignor to Pathe Freres Phonograph Company, a Corporation of Delaware. Filed Apr. 26, 1919. Serial No. 293,013. 11 Claims. (Cl. 192—116.)

1. In phonograph stop mechanism, a gravity arm pivotally supported so as to turn in a vertical direction, one end of said arm being adjacent to the base of the tone arm, a member frictionally attached to and turning with the tone arm and having a portion projecting beneath the adjacent end of said gravity arm, said gravity arm having a notch therein for reception of the projecting portion of said member, a bell-crank on the opposite end of said gravity arm, a pin projecting downwardly from the turntable and adapted to turn said bell-crank on its pivot when

that end of the gravity arm is raised bringing the bell-crank into the path of movement of said pin, a notched lever adapted to be operated by the bell-crank when the



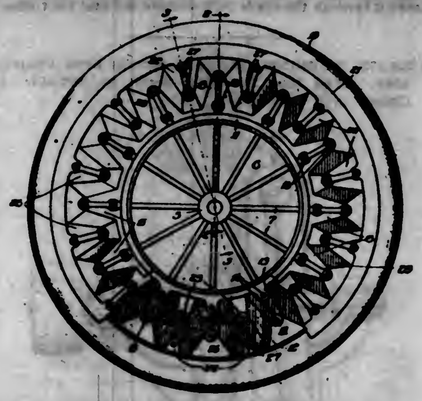
same is turned and a spring actuated brake having means adapted to enter and be releasably held by the notch of said lever.

1,394,778. NUT-LOCK. Joseph Menchen and Axel G. Bergman, New York, N. Y., assignors, by direct and mesne assignments, to Thomas Gordon Hoagland, Rockaway, N. J. Filed Aug. 14, 1920. Serial No. 403,470. 4 Claims. (Cl. 151—25.)

1. A nut-lock comprising a nut having a longitudinal notch in the side of its threaded bolt-opening, and a locking device of resilient strip material substantially loose in said notch canted edgewise to the bolt and prebent to bear against one side of the notch and the threads of the bolt, and acting bodily transversely to itself as a tilting strut between the threads of the bolt and the back or apex of the notch to block relative turning movement in one direction.

1,394,779. CUSHION-WHEEL. John Nelson, Chicago, Ill. Filed May 27, 1920. Serial No. 384,523. 4 Claims. (Cl. 152—36.)

8. A cushion wheel comprising inner and outer rims provided with overlapping sockets arranged in alternation and in spaced relation around the wheel, each of said sockets being open at one side, a zig-zag shaped resilient member seated in said sockets and connecting the rims together, an inner ring having outward projections for closing the open sides of said inner sockets, an outer ring having inward projections for closing the open sides of

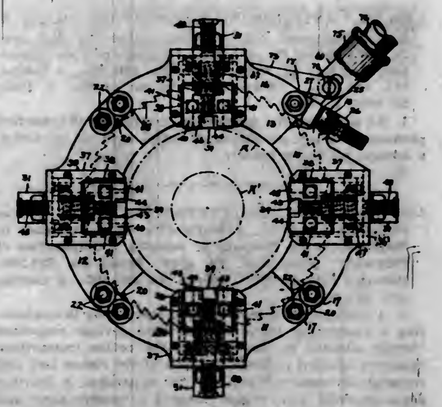


said outer sockets, and means for securing said rings to their respective rims.

1,394,780. SEPTIC-SEWAGE-DISPOSAL PIPE. Wilbur H. Nicholas, Indianapolis, Ind. Filed Feb. 16, 1921. Serial No. 445,306. 3 Claims. (Cl. 210—6.)

1. A baffle plate for pipe lines having a marginal channel to receive a cementitious agent and being perforate between the channel and center of the plate in one semi-circular area only.

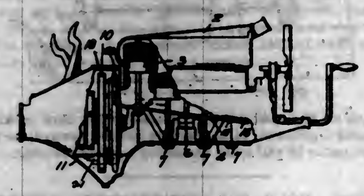
1,394,781. PIPE-CUTTER. Ira W. Nonneman, Warren, Ohio, assignor to The Borden Company, Warren, Ohio, a Corporation of Ohio. Filed Dec. 2, 1918. Serial No. 264,917. 7 Claims. (Cl. 81—190.)



1. The combination of a set of arcuate sections all of them except the extreme sections hinged together to make

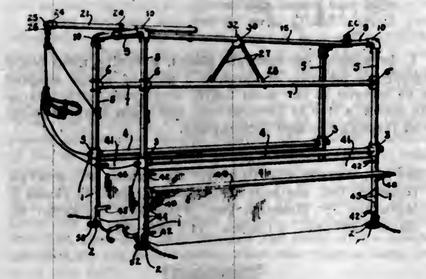
an openable frame, means for removably securing the extreme sections together to make the frame continuously annular, radial guideways carried by the sections, housings having ribs occupying the guideways, ratchet teeth on said ribs, pawls therefor carried by the sections, slidable blocks in the housings, knives carried by said blocks, and springs pressing the blocks inwardly.

1,394,782. OILING SYSTEM FOR ENGINES. George F. Nutting, San Francisco, Calif. Filed Apr. 29, 1920. Serial No. 377,494. 5 Claims. (Cl. 184—11.)



3. An oiling system for internal combustion engines in which oil is centrifugally thrown by a rotary part, including a distributer having an intake disposed adjacent to the said rotary part, and a barrier longitudinally arranged obliquely to the line of movement of and to intercept the moving oil and project it into the said intake.

1,394,783. ANIMAL-STOCK. Thomas Olinger, Holland, Mich., assignor to Holland Lighting and Specialty Co., Holland, Mich., a Corporation of Michigan. Filed Nov. 13, 1918. Serial No. 262,381. 9 Claims. (Cl. 119—106.)



1. A construction of the character described, including a frame having spaced sides and a connecting top portion and provided at the top with a central, longitudinal frame member, and a longitudinally adjustable rod extending along the central frame member and provided with means for adjustably securing it to the same, said rod being adjustable inwardly and outwardly and being extended beyond the frame and provided with means for holding a halter to maintain the head of the animal in a projecting position beyond the frame.

1,394,784. PITMAN CONNECTION. Charles Pearson, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Feb. 27, 1919. Serial No. 279,629. 2 Claims. (Cl. 74—17.)

1. A pitman connection including a body member, a bearing box, and a flexible connection therebetween, said bearing box positioned in close proximity to said body member, said connection formed of a flat steel strip having its sides gradually increasing in width and terminating in a wide straight portion thereby distributing the resiliency



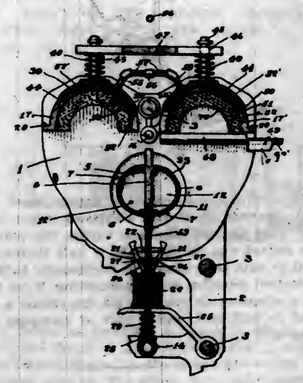
throughout the entire length of said flexible connection in a direction at right angles to the plane of movement of said pitman.

1,394,785. AUTOGRAPHIC REGISTER. Albert P. F. Pico, Kansas City, Mo. Filed June 24, 1918. Serial No. 241,538. 1 Claim. (Cl. 242—68.)



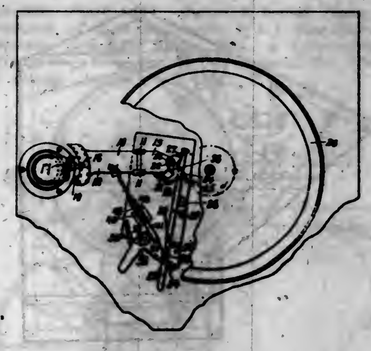
In an autographic register, a housing comprising side walls, having openings at oppositely disposed points therein, a winding shaft revolubly supported at its opposite ends in said openings and having a longitudinally extending slot therein opening at one end of the shaft, and an annular channel adjacent the open end of the shaft and a notched surface adjacent the channel, the said shaft being movable to and from said housing through said openings, a crank fixed at the end of the shaft opposite the annular channel, an arm pivotally mounted to the housing wall and having a latch head adapted to fit about the channel portion to retain the shaft in functional position, and an arm pivotally mounted on the housing wall having a tooth adapted to engage the notched surface of the shaft to prevent unwinding of the same.

1,394,786. APPARATUS FOR MOLDING ARTICLES FROM PLASTIC MATERIALS. Robert D. Pike, San Francisco, Calif. Filed Mar. 8, 1920. Serial No. 364,125. 19 Claims. (Cl. 92—54.)



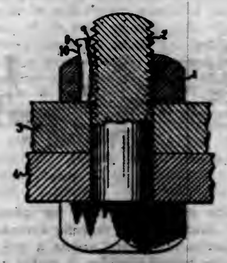
1. A molding apparatus comprising a horizontal support, a core associated therewith, a mold plate associated with the core and between which and the core is formed a molding chamber, a horizontal fulcrum for said molding plate, means for swinging the molding plate on its ful-

that end of the gravity arm is raised bringing the bell-crank into the path of movement of said pin, a notched lever adapted to be operated by the bell-crank when the



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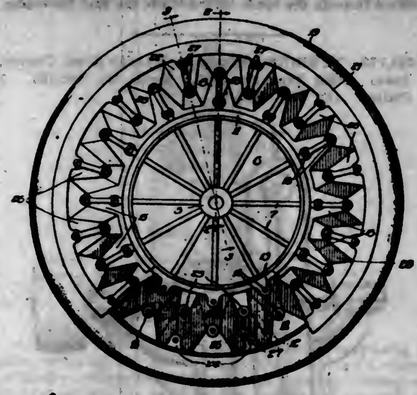
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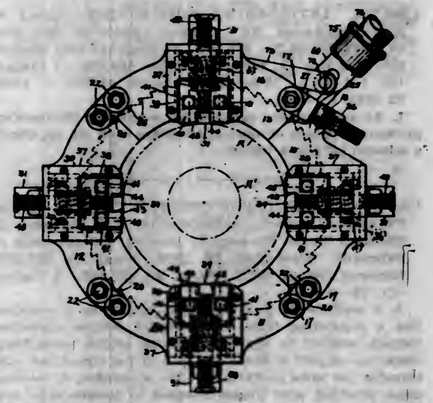
said outer sockets, and means for securing said rings to their respective rims.

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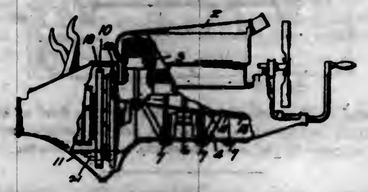
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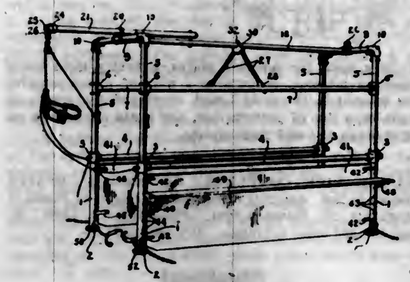
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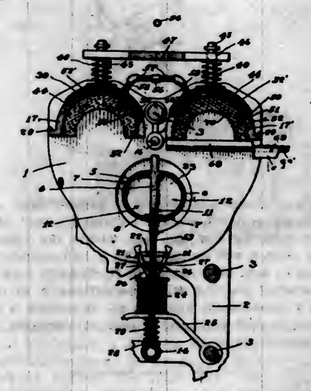
throughout the entire length of said flexible connection in a direction at right angles to the plane of movement of said pitman.

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In an autographic register, a housing comprising side walls, having openings at oppositely disposed points therein, a winding shaft revolubly supported at its opposite ends in said openings and having a longitudinally extending slot therein opening at one end of the shaft, and an annular channel adjacent the open end of the shaft and a notched surface adjacent the channel, the said shaft being movable to and from said housing through said openings, a crank fixed at the end of the shaft opposite the annular channel, an arm pivotally mounted to the housing wall and having a latch head adapted to fit about the channel portion to retain the shaft in functional position, and an arm pivotally mounted on the housing wall having a tooth adapted to engage the notched surface of the shaft to prevent unwinding of the same.

1,394,786. APPARATUS FOR MOLDING ARTICLES FROM PLASTIC MATERIALS. ROBERT D. PIKE, San Francisco, Calif. Filed Mar. 8, 1920. Serial No. 364,125. 19 Claims. (Cl. 92—54.)



1. A molding apparatus comprising a horizontal support, a core associated therewith, a mold plate associated with the core and between which and the core is formed a molding chamber, a horizontal fulcrum for said molding plate, means for swinging the molding plate on its ful-

other to open and close the mold, means for retaining the mold plate in closed position, means for supplying flowing material under pressure to the molding chamber to fill the same to its capacity under said filling pressure, a second chamber communicating with the molding chamber and for receiving material overflowing from said molding chamber, and means within said latter chamber for forcing the material contained therein into the molding chamber, and for compressing the flowing material contained within the molding chamber to express the fluid therefrom and to compress the material within the molding chamber.

1,394,787. PNEUMATIC TIRE. WINFIELD P. PORTER, New York, N. Y. Filed Sept. 25, 1919. Serial No. 326,180. 12 Claims. (Cl. 152—15.)



1. In a pneumatic tire, a tube having an elastic wall and a series of separate strips of relatively inelastic material, an intermediate portion of each strip lying in the belly portion of the tube and with the terminal portion inclined diagonally of the tube in the same direction on opposite sides thereof.

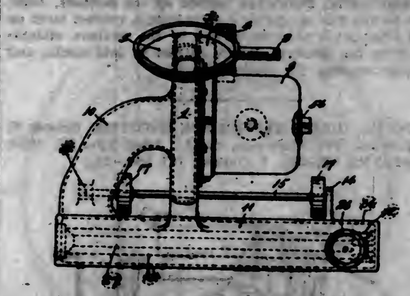
1,394,788. DISPLAY-CLAMP. GEORGE POTSTADA, Oakland, Calif. Filed Nov. 22, 1919. Serial No. 339,788. 1 Claim. (Cl. 248—20.)



An object holder comprising a flanged base, a spring clamp for securing the base to a suitable object, the clamp normally lying against the base within the plane of the flange, a slotted nut on said base, a ball therein, an arm connected to said ball, means to frictionally hold the ball in any desired position while permitting it to be moved through a considerable angle in all directions, a standard connected to said ball, and a pair of clamping members carried by said standard.

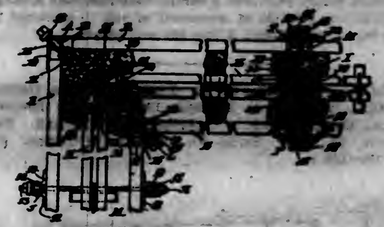
1,394,789. CLEANER. HENRY PRELL, Cleveland, Ohio. Filed Nov. 4, 1916. Serial No. 129,512. 5 Claims. (Cl. 15—60.)

3. A vacuum cleaner, comprising a casing having a suction chamber and an elongated nozzle portion having a mouth and communicating at one point in its length with said chamber, said nozzle portion being also provided at another point in its length and above said mouth with an



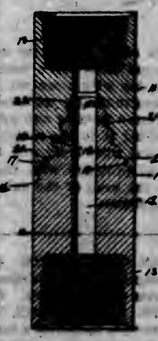
opening to the atmosphere, whereby a free flow of air is produced lengthwise in said nozzle portion toward the suction chamber in the space above the suction covering.

1,394,790. MOLD FOR CONSTRUCTING CONCRETE HOUSES AND OTHER BUILDINGS. WILLIAM HENRY ROSENMEYER, Ottawa, Canada. Filed June 2, 1920. Serial No. 386,913. 3 Claims. (Cl. 25—131.)



1. In a mold for concrete plates, a cavity mold board supporting member, comprising a pair of plates adapted to be secured to the mold board, overlapping brackets on the plates, a line of perforations, and a pin adapted to extend through the said perforations.

1,394,791. PIPE-COUPLING. BENJAMIN F. BUNYAN, Houston, Tex., assignor of fifty-one per cent. to James P. Markham, Jr., Houston, Tex. Filed July 21, 1920. Serial No. 397,935. 2 Claims. (Cl. 285—151.)



2. A coupling for interconnecting implements comprising two sections, one of said sections being tubular and being

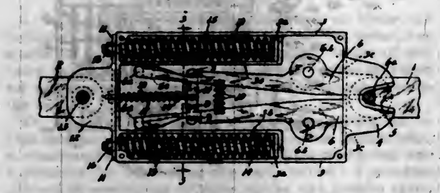
formed with a substantially conical socket, said socket adjacent its outer end being formed with a centrally and longitudinally inclined, annular seat, and then being formed with a plurality of relatively coarse screw-threads, the socket terminating at its inner end in an annular, beveled seat, extending to and intersecting the bore of the tubular section, the other section having a substantially conoidal prolongation adapted to be inserted in the socket, said prolongation at its base being formed with a longitudinally and axially inclined seat to confront the first named seat on the other section and longer than the said first named seat, and beyond this seat being formed with a plurality of relatively coarse threads engaging the screw-threads of the other section and at its extremity being formed with an annular, beveled seat to confront the second named seat on the first named section and extending to the extremity of the second named section, said screw-threads being rounded in cross section.

1,394,792. COMBINATION-LOCK. WILLIAM J. H. RUSCHMEYER, Toledo, Ohio. Filed Apr. 12, 1920. Serial No. 373,068. 1 Claim. (Cl. 70—53.)



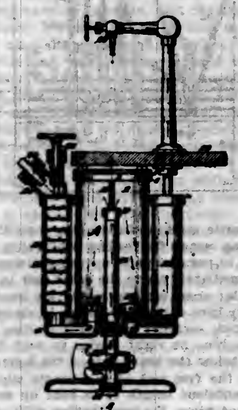
In a combination lock, a cylindrical shell having a slot, a plurality of cylinders having corrugated inner surfaces formed by substantially convex semi-cylindrical surfaces forming corners between adjoining convex surfaces and having designated indicia located around the outside of the cylinders and so that one or the other of the indicia may register with the slot of the shell, a plurality of disks; each disk having a thickness less than the height of a cylinder, the disks located at the ends of the cylinders and so that the disks of adjoining cylinders will be located in spaced relation, one end of each cylinder being provided with projecting flanges located between adjoining convex surfaces of the cylinder, each disk having a corrugated surface corresponding to the corrugated surface of the cylinders and formed by a plurality of adjoining semicylindrical concave surfaces, the points formed between the adjoining concave surfaces at one end thereof placed against the flanges between the concave surfaces of the cylinder, each disk being provided with an axial opening and a slot extending therefrom, the cylinders being rabbeted at their ends so as to fit adjoining cylinders, a key member located in the axial openings of the disks and having projecting tongues adapted to register with the slots and pass through the slots, and a means operated by the key member when the tongues have entered the slots.

1,394,793. AUTOMATIC SAFETY ADJUSTABLE TRACTOR-COUPLING. FRANK M. RUTTEN, Grand Forks, N. D., assignor to Albert R. Hilsabeck, Grand Forks, N. D. Filed Mar. 24, 1921. Serial No. 454,966. 6 Claims. (Cl. 213—67.)



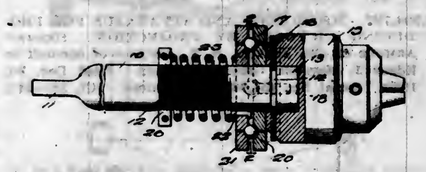
1. A tractor hitch having in combination two pivoted members having their front ends held in engagement and recessed to provide an opening for receiving a draft pin, a casing member carrying said pivoted members, a member yieldingly connected to said casing member and cam means connected to said last mentioned member and adapted to move the rear ends of the pivoted members together to separate the front ends thereof and release the draft pin.

1,394,794. COMBINATION CARBONATOR AND FILLER. ELI E. SAGER and OSCAR L. KING, San Francisco, Calif. Filed Mar. 20, 1919. Serial No. 283,883. 2 Claims. (Cl. 261—19.)



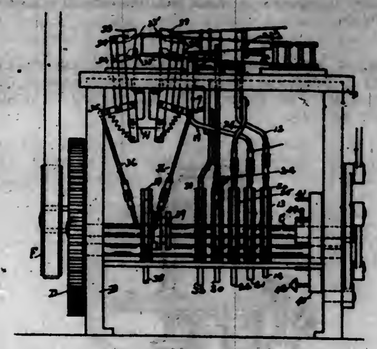
2. In a device of the character described, a tank having a base, a pair of pipes supported on the base on opposite sides of the tank and extending alongside the latter, conduits connecting the lower ends of the pipes to the tanks, means within the pipes for mixing the liquid and gas passing therethrough, and dispensing means connected to the upper ends of the pipes.

1,394,795. DRILL OR TAP HOLDER. PATRICK SAUVE, Flint, Mich. Filed Oct. 2, 1919. Serial No. 327,902. 2 Claims. (Cl. 10—135.)



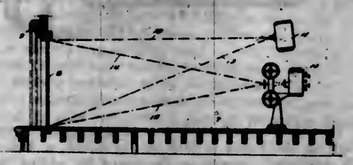
2. In a device as specified, a shank, a chuck mounted to turn on the shank, a disk on the chuck, a disk on the shank, adjustable means on the shank for urging the disk on the shank against the other disk, said disks having corresponding ball seats formed in their adjacent faces and one disk having cam faces leading from the ball seats, and balls interposed between the disks adapted to normally rest in said seats to interlock the disks for turning as a unit and adapted to ride over said cam faces when undue resistance to turning is offered one of the disks.

1,394,796. AUTOMATIC MACHINE FOR MAKING METALLIC FRAMES FOR WREATHS. CHARLES SMITH, Providence, R. I. Filed Sept. 2, 1920. Serial No. 407,731. 5 Claims. (Cl. 140—71.)



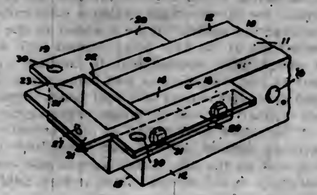
1. In an automatic machine for making metallic frames for wreaths having means for feeding a plurality of wires into the machine in parallel pairs spaced a distance apart with one pair immediately above the other pair in skeleton form of rectangular cross section, means for bending said wires concurrently into concentric circles in skeleton form of rectangular cross section; means for feeding a single wire into the machine at right angles to said first mentioned wires and below the lower pair of the latter; means for cutting from the free end of said single wire successively pieces of sufficient length to be bent up around all said first mentioned wires, the combination with said parts of a vertically reciprocating arbor arranged and adapted on its upward movement to bend said cut off pieces into inverted V-shape midway of their length; oppositely disposed pliers alined with each other and each having a straight jaw and a curved jaw, each jaw separately operatively connected to a common shaft whereby said jaws are actuated in unison to restore said cut off pieces to their normal straight form, bend said pieces around the lower pair of the first mentioned wires and turn the ends of said pieces up against the upper pair of said first mentioned wires; means for bending the upturned ends of said pieces around the upper pair of said first mentioned wires, means for cutting all said first mentioned wires simultaneously at a common point, means for actuating the whole from a common shaft, and supporting means for the whole.

1,394,797. METHOD OF AND APPARATUS FOR PRODUCING PICTURES BY PROJECTION. HERMAN ARMOUR SMITH, Yonkers, N. Y., assignor of one-half to Edgar J. Marston, Greenwich, Conn. Filed Dec. 30, 1920. Serial No. 434,037. 23 Claims. (Cl. 88—24.)



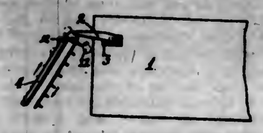
1. The method of producing the appearance of solidity or relief in projected pictures, wherein the images of a plurality of sharply focused photographs, each representing subject-matter unlike to that of the other disposed in a distinct zone and having a different focal distance, are superposed upon a screen.

1,394,798. WAGON-BODY. JOHN STRAW, New York, N. Y., assignor of one-third to James McDermott and one-third to Walter Roberts, Richmond Hill, N. Y. Filed Aug. 14, 1919. Serial No. 317,497. 3 Claims. (Cl. 296—48.)



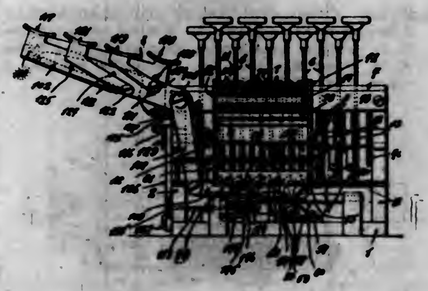
1. In a wagon body construction, a sill having a flat upper surface, a U-shaped stake socket member comprising side legs embracing the sides of the sill and an end piece integral with one another, the legs and end piece comprising horizontal flange members flush with the top surface of the sill, said end piece being spaced from the end of the sill forming a stake socket, and means passing through said legs to lock the socket member to the end of the sill.

1,394,799. SAFETY CAN-FEED CHUTE. ALBERT R. THOMPSON, San Jose, Calif., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif., a Corporation of California. Filed Apr. 3, 1920. Serial No. 370,936. 3 Claims. (Cl. 193—29.)



1. A can-feed chute having in one section of its length an opening in its floor of a width greater than the diameter and but little less than the length of the cans to be fed and said chute having an approach section to said open-floor section adapted to direct a can rolling true therein to bridge said floor opening, the floor of said approach section rising to a plane above that of the open-floor section and terminating in a drop to said open-floor section.

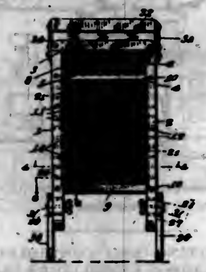
1,394,800. CALCULATING-MACHINE. FERDINAND J. TILLMAN, St. Louis, Mo. Filed May 15, 1916. Serial No. 97,641. 27 Claims. (Cl. 235—63.)



2. In a calculating machine, an accumulator having total wheels, a traveling carriage movable step by step

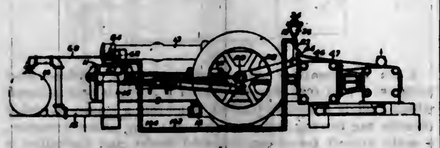
to provide for the transmission of movement to the different total wheels, keys, key controlled devices for operating said total wheels, an escapement device adapted to move said carriage one step in response to each key movement, a latch device for locking said escapement device in an inoperative condition during several key operations to provide for the consecutive addition of said several numbers of the same order, and means for retaining said latch device in an inoperative position to allow said carriage to advance one step in response to each key operation.

1,394,801. WASHBOARD. GEORGE BERNARD WHEELER, New York, N. Y. Filed Sept. 11, 1920. Serial No. 409,704. 3 Claims. (Cl. 68—29.)



2. In a washboard of the character described, a frame provided with grooves, and having apertures therethrough, metallic strips provided with apertures acting as bearings fixed in said grooves, grooved rollers, each having a metallic pin rigidly fixed to one end, said rollers provided at the opposite end with a movable bearing pin having a flat head at one end, said pin loosely positioned by means of a sleeve through which said pin may extend so as to engage a corresponding aperture in the bearing strip to allow a revolving movement of the roller, the flat head of said bearing pin engaging and acting upon a spiral spring loosely fixed in a socket in the end of the roller.

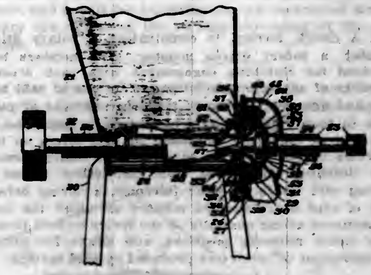
1,394,802. UNLOADING APPARATUS FOR COMPRESSORS. WADE H. WINEMAN, Chicago, Ill., assignor to Sullivan Machinery Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 12, 1915. Serial No. 1,875. 64 Claims. (Cl. 230—24.)



1. In combination, a compressor having an intake, an unloading valve therein, a compressor driving motor, and means for utilizing a vacuum formed upon closure of said valve to control said motor, said means having provision for relieving said motor of said vacuum control prior to the opening of said valve.

44. The combination with a compressor having an intake and an unloading valve for controlling said intake; a compressor-driving engine having valve mechanism and a governor for controlling the valve cut-off; a governor and cut-off controlling cylinder having two pistons therein, one connected to the governor to modify its action and the other connected to the valve-mechanism to change its cut-off, said pistons having a space therebetween communicating with said intake, one end of said cylinder being closed to form a chamber between the closed end and the first-mentioned piston, and the other end of said cylinder being in communication with the atmosphere; yielding means tending to open said unloading valve; pressure fluid means for closing said unloading valve, including a pressure cylinder having a piston working therein and a vacuum cylinder having a piston working therein, the last two mentioned pistons being connected to each other and to said unloading valve; a controlling valve for controlling communication between said vacuum cylinder, said chamber and the atmosphere; a second controlling valve for controlling communication between said vacuum cylinder, said chamber and the compressor intake; yielding means tending to open the first-mentioned controlling valve and to close the second-mentioned controlling valve; pressure fluid means including a controlling cylinder and piston working therein for closing the first-mentioned controlling valve and opening the second-mentioned controlling valve; a valve for controlling the admission of fluid at terminal pressure to said pressure cylinder and to said controlling cylinder; a valve for placing said pressure cylinder and said controlling cylinder in communication with the atmosphere, the last two mentioned valves being connected whereby when one is opened the other is closed; yielding means tending to hold the last two mentioned valves in position, the one cutting off the admission of terminal pressure fluid to said pressure cylinder and to said controlling cylinder and the other admitting atmospheric air to said pressure cylinder and said controlling cylinder; and pressure fluid means including a cylinder and a piston working therein for varying the action of the last-mentioned yeilding means, one end of the last-mentioned piston being subject to atmospheric pressure, and the other end being subject to intake pressure.

1,394,803. FEED-MILL. WILLIAM L. BRALL, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Jan. 27, 1919. Serial No. 273,411. 21 Claims. (Cl. 83—8.)

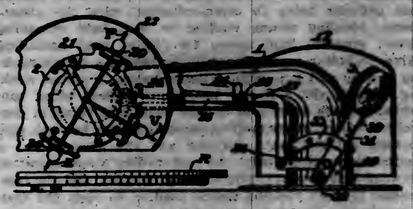


1. In a feed grinding machine, a plate holder, an auger plate having ribs thereon, a grinding plate having ribs thereon, and means for so positioninng the auger plate and the grinding plate on said plate holder that said ribs are disposed in alinement with each other.

1,394,804. AUTOMATIC UNIVERSAL REPRODUCER AND TONE-ARM. CHRISTIAN C. BENDER, Seattle, Wash. Filed Feb. 9, 1920. Serial No. 357,433. 11 Claims. (Cl. 274—23.)

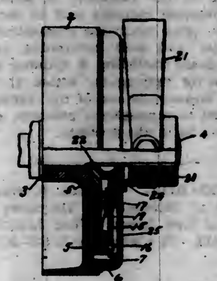
1. In a phonograph, a reproducer having a single diaphragm and adapted to receive simultaneously three inde-

pendent needles therein, said reproducer being movable to bring any one of said needles into operable position, and



means operable through the movement of said reproducer when the latter is connected thereto for changing the pressure of said needles upon the record.

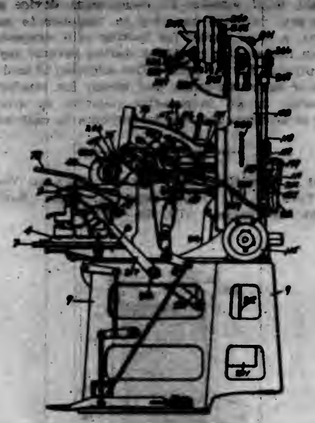
1,394,805. CLUTCH. CHARLES C. BLAKE, Brookline, Mass. Filed Sept. 1, 1917. Serial No. 189,353. 2 Claims. (Cl. 192—70.)



2. A clutch, having, in combination, a rotary driving member, a rotary driven member, said members being mounted for clutching engagement with each other, a plurality of spring levers fulcrumed on one of said members and arranged to engage the other member at points close to their fulcrums, said parts being constructed and arranged to cause the movement of said levers on their fulcrums in one direction to force said rotary members into clutching engagement with each other, means for moving said levers on their fulcrums, a spring between each of said levers and the member on which the levers are mounted acting normally on the levers to hold them in their clutch releasing positions, and means for limiting the movement of the levers produced by said springs.

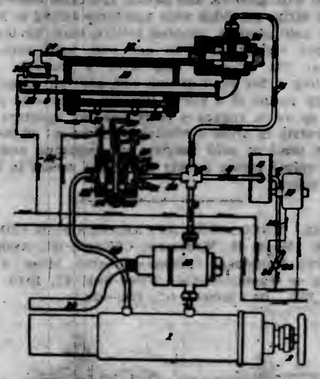
1,394,806. MACHINE FOR INSERTING FASTENINGS. CHARLES C. BLAKE, Brookline, Mass. Original application filed Mar. 27, 1916, Serial No. 86,958. Divided and this application filed Sept. 27, 1917. Serial No. 193,442. 35 Claims. (Cl. 1—18.)

23. A shoe machine, having, in combination, means for inserting fastenings, means for feeding the inserting means, a main driving shaft, a shaft driven therefrom for driving the inserting means, a shaft driven from the driving shaft for driving the feeding means, a clutch for clutching the inserting means shaft to the driving shaft, a pair of clutches for clutching the feeding means shaft to the driving shaft, mechanism for operating one of the pairs of clutches at a time to throw in the feeding means and automatically from said mechanism as the fastening obtain for inserting in the fastening means when either



of the pairs of clutches is operated to drive the feeding means, substantially as described.

1,394,807. IGNITING AND CONTROLLING DEVICE FOR HYDROCARBON GENERATORS AND BURNERS. GEORGE N. BLANCHARD, San Francisco, Calif. Filed Dec. 4, 1920. Serial No. 428,276. 19 Claims. (Cl. 158—81.)

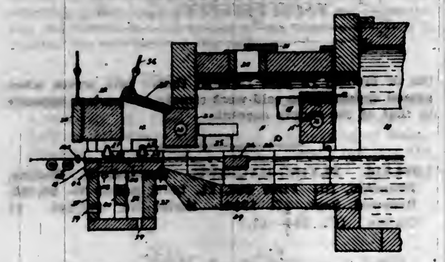


1. In combination with a generator for hydrocarbon burners, a fuel feed line connected therewith and through which fuel is supplied thereto, a motor, a pump operated thereby for forcing fuel through said line under pressure, a main circuit for operating said motor and including a main switch, a thermostatic valve for controlling the admission of fuel from the line to the generator dependent on the temperature of the generator, a pilot burner associated with the generator for initially heating the same and connected with said fuel feed line, a thermostatic valve for controlling the fuel feed to the pilot burner, a secondary circuit connected with said main circuit, an electric heater associated with the pilot burner and its thermostatic valve, an electric igniter associated with said pilot burner, said heater and igniter being connected in series in said secondary circuit, a switch in said secondary circuit, and means connected with said switch and operated by the fuel feed pressure for opening and closing the switch.

1,394,809. COMPOSITION FOR REFINISHING BLEMISHED VARNISHED WOOD SURFACES. BOB BAY BARNES, Cameron, W. Va. Filed Apr. 12, 1920. Serial No. 373,093. 2 Claims. (Cl. 134—24.)

1. The herein-described composition for refinishing blemished varnished wood surfaces, consisting of burnt umber, turpentine drier and crude petroleum, combined in substantially the proportions set forth.

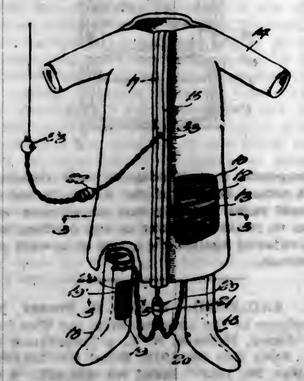
1,394,809. PROCESS AND APPARATUS FOR DRAWING SHEET-GLASS. IRVING W. COLBURN, Toledo, Ohio, assignor, by mesne assignments, to The Libbey-Owens Sheet Glass Company. Filed Oct. 8, 1915. Serial No. 54,714. 22 Claims. (Cl. 49—17.)



11. The method of forming sheet glass, consisting in providing a slab within a heated chamber and projecting the discharge end thereof into a temperature which is less than that of the chamber, and causing molten glass to flow onto the slab within the chamber and to be drawn from the discharge end thereof.

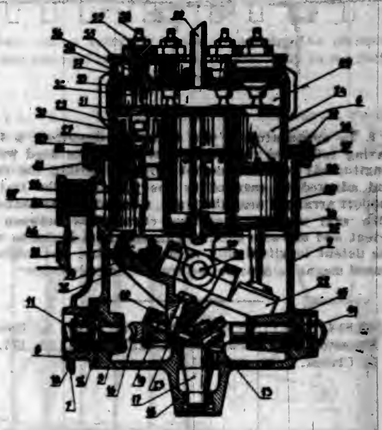
18. In an apparatus of the class described, a heated chamber having an opening therein, a slab within the chamber and onto which the molten material may flow and be drawn therefrom in a continuous sheet form through said opening, and means for varying the size of the opening to regulate the temperature in the chamber.

1,394,810. ELECTROTHERMAL GARMENT. JOEL E. CRADDICK, Denver, Colo. Filed Apr. 3, 1919. Serial No. 287,184. 3 Claims. (Cl. 219—38.)



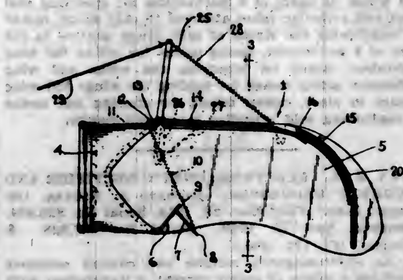
1. In a device of the character described, a body garment having inner and outer fabrics, said outer fabric having edge portions that are secured along two lines up and down the front part of the garment to form a conduit, and an electric circuit comprising a series of turns of conducting wire secured between said inner and outer fabrics, said series extending from the upper part of the garment to the lower part thereof and having upper and lower terminals meeting within said conduit and extending outward laterally of the conduit and terminating in an attaching plug.

1,394,811. COMPRESSOR. GASTON JULES DARCH, Courbevoie, France. Filed Dec. 27, 1919. Serial No. 347,851. 3 Claims. (Cl. 230—27.)



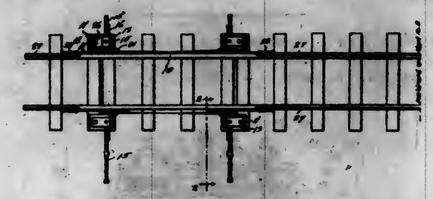
1. A device of the type described comprising an annular group of cylinders, pistons reciprocally mounted therein, a cap member mounted for universal movement, a member rotatable in a plane perpendicular to the axis of the cylinder, means connecting said rotatable member with said cap member whereby rocking movement is imparted to the latter to effect reciprocation of said pistons, and means for adjusting the last mentioned means to vary the extent of the rocking movement of the cap member.

1,394,812. PNEUMATIC-STACKER HOOD. AUGUST P. DETERMANN, Lyons, Iowa. Filed Jan. 26, 1920. Serial No. 354,091. 5 Claims. (Cl. 302—10.)



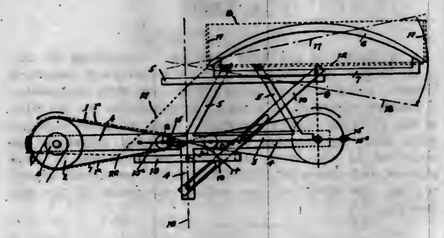
1. A stacker hood having side plates, a throat plate arranged between said side plates, hook members secured to said throat-plate and extending outwardly of the side plates, and springs fixed to said side plates and to said hook members.

1,394,813. AUTOMATIC SAFETY-GATE FOR RAILWAY-CROSSINGS. COCIU ENACHE, Dallas, Tex., assignor of one-tenth to George P. Risa, Dallas, Tex. Filed Nov. 26, 1920. Serial No. 426,346. 7 Claims. (Cl. 246—298.)



1. In appparatus of the character described, a track having rails, one rail being provided in its head with a longitudinal recess, a detent arranged within the recess and adapted to engaged by the wheels of the train, a support arranged near the track, a movable gate connected with said support, operative connections between the detent and movable gate, a train operated device to move the detent longitudinally in one direction, and train operated means to depress the train operated device.

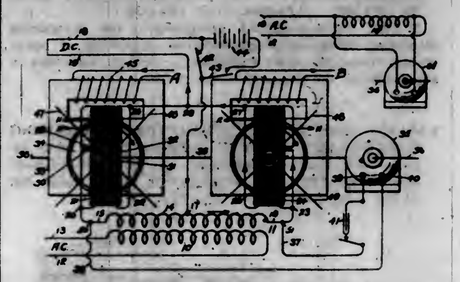
1,394,814. FLYING-MACHINE. RICHARD A. ENGLER, Evanston, Ill. Filed June 29, 1917. Serial No. 177,660. 12 Claims. (Cl. 244—11.)



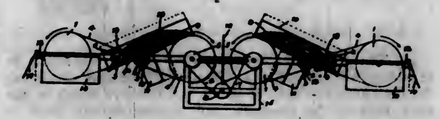
1. In a flying machine, the combination with a central body and wing arms extending from the same and provided with wings, of figure of 8 mechanisms for operating said wings and propeller vanes attached to said wings, means for lengthening the stroke of said wings relative to the figure of 8 mechanism, spring means for aiding the wing mechanism, means for steadying the wings and wing mechanism, safety means for holding the wings and wing carriage in place, rudder means for steering and means for controlling said propeller vanes and rudder.

1,394,815. ELECTROMAGNETIC RECTIFIER AND CURRENT REDRESSER. RICHARD A. ENGLER, Dubuque, Iowa. Filed Mar. 23, 1914, Serial No. 826,484. Renewed Nov. 12, 1919. Serial No. 337,628. 6 Claims. (Cl. 175—363.)

1. An electromagnetic rectifier and current redresser comprising a source of supply current, a transformer with a split secondary, two current throttling units, and a work circuit; said units provided with means for causing said throttling action and providing two paths of flow for said supply current, each of said units consisting of a magnetic path and two coils, one of said coils being wound or placed over the other and both surrounding said magnetic path; said throttling means of said units operating in synchronism with the waves of current passing or tending to pass through them; said waves when passed appearing on said work circuit of a nature opposite to that of the supply current.

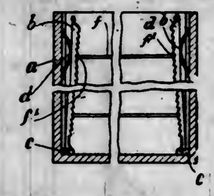


1,394,816. FLYING-MACHINE. RICHARD A. ENGLER, Evanston, Ill. Filed Oct. 11, 1915, Serial No. 55,355. Renewed Sept. 27, 1920. Serial No. 413,249. 11 Claims. (Cl. 244—11.)



7. For aerial locomotion, a system of mechanism partaking of the form of a figure of 8, said mechanism carrying means for attaching the air, said means consisting of horizontal and vertical wings, said wings elevating, sustaining, propelling and stabilizing.

1,394,817. RECEPTACLE. WINIFRED MABEL FAUSSET, Newtownards, Ireland. Filed June 18, 1920. Serial No. 390,051. 2 Claims. (Cl. 217—64.)



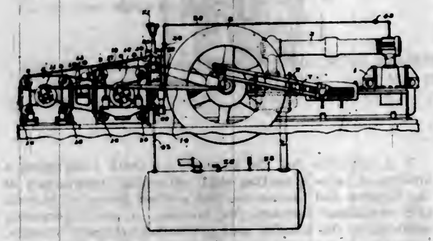
1. A receptacle, a shelf adapted to fit therein, racks pivoted at bottom corners of the receptacle and springs pressing said racks inwardly into engagement with the shelf so as to retain the latter in any position to which it may be adjusted against the action of upward pressure exerted thereon.

1,394,818. RAIL-BOND. HAROLD H. FREBEY, Newark, N. J., assignor to The American Steel and Wire Company of New Jersey, Hoboken, N. J., a Corporation of New Jersey. Filed May 28, 1918, Serial No. 237,006. Renewed Mar. 24, 1921. Serial No. 455,323. 8 Claims. (Cl. 173—278.)

1. A rail bond adapted for welding to the side surfaces of the rails and comprising a flexible conductor, having terminals on the ends thereof extending lengthwise parallel with the length of the conductor, said terminals having opposite lugs on one side arranged to bend into holding engagement with the conductor ends, to thereby mechanically connect the terminals to said conductor, and having a transverse notch in one side forming a metal receiving pocket arranged to permit the rail, the conductor and the terminals to be united by the fused metal used in welding the rail bond to the rail.



1,394,819. COMPRESSOR-CONTROLLING MECHANISM. ALEXANDER D. FERGUSON, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed June 1, 1917. Serial No. 172,816. 37 Claims. (Cl. 230—24.)



1. In combination, a compressor, and driving means therefor of the expansible chamber type, comprising motive fluid distributing mechanism and a plurality of means sequentially controlling said distributing mechanism and controlled by compressor discharge pressure at different intensities thereof to vary the speed of said compressor.

18. In an apparatus of the character described, the combination comprising a compressor having an intake, an intake controlling valve, controlling means for said valve, a compressor driving engine, cut-off mechanism therefor, and a plurality of means responsive respectively to the pressure developed by said compressor, and to changes in pressure conditions therein after closure of said valve each controlling the operation of said cut-off mechanism.

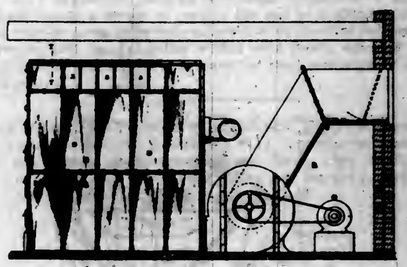
32. In an apparatus of the character described, the combination comprising a multistage compressor having an intercooler and an intake, an intake controlling valve, a compressor driving engine, and means connected to said intercooler responsive to changes in pressure conditions in said compressor upon closure of said intake controlling valve for effecting a delayed controlling of the speed of said engine.

1,394,820. MIXING DEVICE FOR EXPLOSIVE-ENGINES. JOHN H. FRITS, Kansas City, Mo., assignor to J. R. Green, Jasper county, Mo. Filed July 23, 1920. Serial No. 398,853. 1 Claim. (Cl. 123—141.)

In a mixing device for explosive engines, a ring member having a bridge portion, three screens superposed one on the other, extending across said ring member, the intermediate screen being relatively fine, and the other screens being relatively coarse, a perforated clamping member bearing against the center and edges of the screens, and a securing device connecting the clamping member and said bridge portion, substantially as set forth.

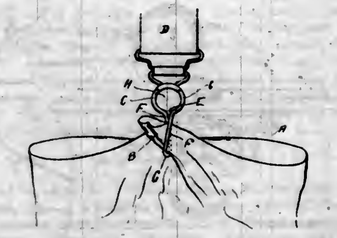


1,394,821. FURNACE-CASING. NATHANIEL FROST, Bloomington, Ill., assignor to American Foundry & Furnace Company, Bloomington, Ill. Filed Dec. 16, 1920. Serial No. 431,190. 2 Claims. (Cl. 126—114.)



1. A panel for sectional furnace casings consisting of a pair of steel sheets spaced apart constituting inner and outer walls, and having a heat insulating filling therebetween, angle irons welded within the panels at each end to the outer walls and projecting outwardly and provided with bolt openings, a strip of sheet steel welded to the outer face of the inner wall of each panel extending across the space between the inner and outer walls of the panels at each end, said strips crimped or corrugated to form complementary V-tongues and grooves at opposite ends, said strips welded to the aforesaid angle irons and coextensive therewith.

1,394,822. STOCKING-SUSPENDER. EMILY ANN GOVER, Epping, near Sydney, New South Wales, Australia. Filed May 14, 1920. Serial No. 381,236. 1 Claim. (Cl. 24—264.)



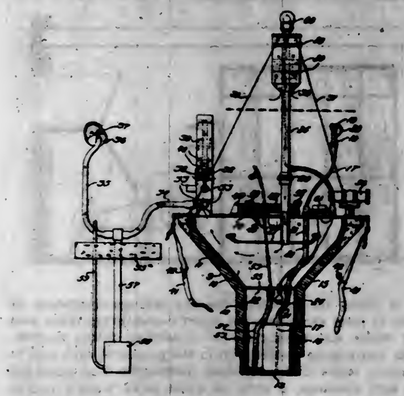
A stocking suspender, comprising a single pear-shaped loop of steel spring wire having a stalk portion and a resilient bow portion, the arms of the stalk portion being twisted vertically slightly more than a quarter turn with

relation to the bow portion, whereby said resilient bow portion is brought into a plane approximately at right-angles to the plane of the larger portion of the loop.

1,394,823. GREEN ACID DYESTUFFS CONTAINING CHROMIUM AND PROCESS OF MAKING SAME. ARMIN GROB, Basel, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Filed Aug. 17, 1918. Serial No. 250,373. 4 Claims. (Cl. 8—1.)

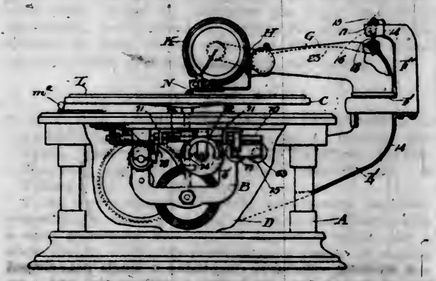
1. The herein described process for the manufacture of green acid dyestuffs containing chromium, consisting in treating with chromating agents the orthooxyazo-dyestuffs derived from aromatic mononitro-orthooxydiazo-compounds and 2-amino-naphthalene-compounds which are not substituted in their 1-position and are capable of combining with a diazo-group in an acid medium at their said non-substituted 1-position chroming agents which are Cr_2O_3 compounds.

1,394,824. LIFE-SUSTAINING APPARATUS. PETAR HABRICH, Philadelphia, Pa. Filed Nov. 1, 1920. Serial No. 421,011. 8 Claims. (Cl. 9—14.)



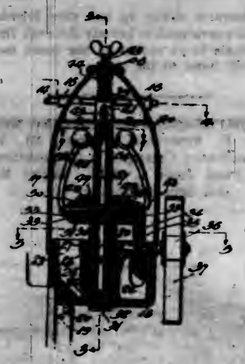
1. Apparatus of the character described including means providing an air reservoir; a breathing tube leading from said reservoir an upright pipe leading upwardly from said reservoir; and a housing surrounding said pipe and open at its bottom, said pipe being in open communication with the interior of said housing above said open bottom; substantially as described.

1,394,825. AUXILIARY DEVICE FOR TALKING-MACHINES. FRANCIS C. HANN, Newton, Mass. Filed May 6, 1918. Serial No. 232,862. 20 Claims. (Cl. 192—116.)



1. A stop-motion for motor-driven talking machines having therein a detector mounted in predetermined relation to the reproducing needle and comprising a part adapted to bear frictionally on the sound record, said detector being displaceable in respect to the record and its mounting by the energy of relative motion of the record and detector whenever the detector is encountered by a part of the record of different character from the sound record proper, in combination with means for stopping the motion as a consequence of the displacement of the detector.

1,394,826. GOVERNOR FOR GAS-ENGINES. CHARLES P. HALL, near Highland Springs, Va. Filed Sept. 13, 1920. Serial No. 410,080. 6 Claims. (Cl. 264—8.)



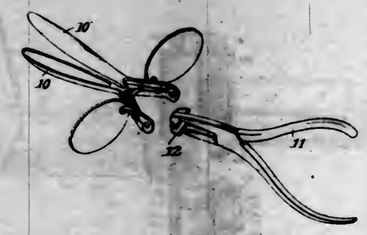
1. A governor for the purpose set forth comprising a housing, a valve actuating shaft extending transversely of the housing and having one end portion journaled therein and extending through the housing, a shaft rotatably mounted in the housing and positioned vertically therein, a gear carried by the vertical shaft, a drive shaft having a gear meshing with the gear of the vertical shaft, a sleeve slidably mounted upon the vertical shaft, a disk slidably mounted upon the vertical shaft between the gear thereof and the lower end of said sleeve and held against rotation upon the vertical shaft, a head carried by the sleeve and having a slot formed therein, an arm extending from the first mentioned shaft and extending into the slot of said head, a shaft carried by the head and extending through a slot in said arm, bell crank levers pivotally connected with the gear of the vertical shaft and having lower arms extending between the gear and disk mounted upon the vertical shaft, the bell crank levers having weighted upper arms swung outwardly to raise the lower arms by centrifugal force, and resilient means yieldably holding the upper arms against outward movement.

1,394,827. SAFETY-RAZOR. RUSSELL P. HARRINGTON, Chicago, Ill. Filed Jan. 22, 1917. Serial No. 143,816. 7 Claims. (Cl. 30—12.)



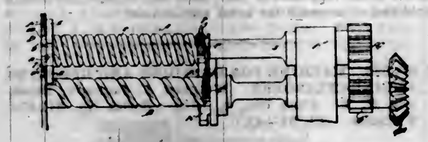
1. In a safety razor a casing, a blade slidably mounted outside of said casing, a member journaled in the wall of said casing and having an eccentric portion operatively connected with said blade, and means in said casing for rocking said member.

1,394,828. CLAMP FOR ADJUSTING SPECTACLE-FRAMES. CHARLES M. HAYNES, Chillicothe, Ohio. Filed Feb. 11, 1920. Serial No. 357,795. 4 Claims. (Cl. 81—3.)



1. A clamp for the purpose described, comprising a pair of manually actuated members each having at an end a forked clamping jaw composed of laterally thin prongs rigid in the line of pressure, said members being pivoted together with the thin edges of the forks coöperating in the same planes, to grip and hold rigidly between such thin edges a spectacle frame at points between the bridge and the lenses, leaving the bridge itself exposed for bending or other adjustment.

1,394,829. TOP SCREW FOR GILL-DRAWING FRAMES. WILLIE HOLDSWORTH, Providence, R. I. Filed May 23, 1921. Serial No. 471,677. 2 Claims. (Cl. 19—6.)



2. In a gill-drawing frame, the combination with the end-bearing member thereof, of a top-screw having screw-threads on its exterior and a stud projecting from its end, a faller-cam mounted on said stud to adapt it to turn with the screw, and an enlarged collar screwed onto the end of the stud to secure the cam against the end of the screw, said collar adapted to be received within a bore in the bearing-member to adapt the screw to turn therein.

1,394,830. INTAKE-MANIFOLD-HEATING DEVICE. HALBERT H. HOLLOWAY, San Francisco, Calif. Filed Feb. 25, 1920. Serial No. 361,286. 7 Claims. (Cl. 263—5.)



1. In combination with the intake and exhaust manifolds of an internal combustion engine, a metal heat conductor arranged between and in contact with each manifold, said exhaust manifold having depending portions and said conductor having pockets therein for reception of said depending portions.

1,394,831. KEY DEVICE FOR REGISTERS. RICHARD M. HOPKINS, Rutherford, N. J., assignor to American District Telegraph Company, Jersey City, N. J., a Corporation of New Jersey. Filed June 12, 1919. Serial No. 303,633. 6 Claims. (Cl. 234—37.)



2. A key-device such as described, comprising a fixed base having a recess to receive the end of a spindle, and a tumbler-carrying spindle adapted to be inserted into said recess, and spring means within said recess adapted to grip said spindle when so inserted and permanently retain it.

1,394,832. WATCHMAN'S REGISTRY SYSTEM. RICHARD M. HOPKINS, Rutherford, N. J., assignor to American District Telegraph Company, Jersey City, N. J., a Corporation of New Jersey. Filed Oct. 10, 1919. Serial No. 329,729. 21 Claims. (Cl. 234—39.)

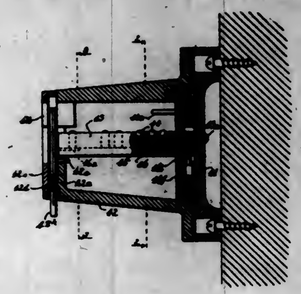


5. A registry system comprising a plurality of stations at one of which is a transmitter provided with driving means, and at others of which are register-actuating means, and a portable register having means, normally concealed, for operating the driving mechanism of said transmittter, together with controlling means for said register-actuating means, said controlling means arranged to be conditioned by application to the various register-actuating means to expose said transmitter-actuating means only when the register has been properly actuated at previous stations.

1,394,833. KEY DEVICE. RICHARD M. HOPKINS, Rutherford, N. J., assignor to American District Telegraph Company, Jersey City, N. J., a Corporation of New Jersey. Filed Jan. 22, 1920. Serial No. 353,458. 6 Claims. (Cl. 234—37.)

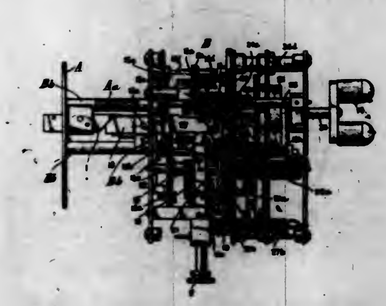
4. A key device such as described comprising in combination a base, a tumbler-stem secured to said base and projecting therefrom, and provided with a plurality of

tumbler-pockets open at both ends, a shell surrounding and serving to protect the said stem, and a tumbler re-



tainer closing the rear ends of said tumbler-pockets and arranged to be separated from said stem by short longitudinal motion of the shell with respect to said stem.

1,394,834. REGISTRY SYSTEM AND REGISTER THEREFOR. RICHARD M. HOPKINS, Rutherford, N. J., assignor to American District Telegraph Company, Jersey City, N. J., a Corporation of New Jersey. Filed June 12, 1919, Serial No. 303,632. Renewed Apr. 28, 1921. Serial No. 465,249. 26 Claims. (Cl. 234—39.)



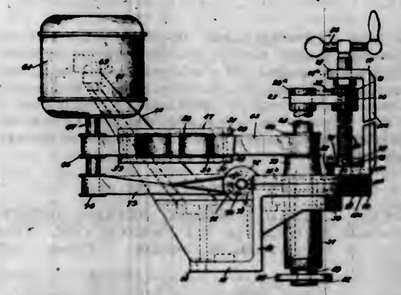
14. A watchman's box comprising registering means adapted to be advanced progressively together with locking means therefor and control means adapted to be applied to one or another of a series of external conditioning devices and thereby conditioned for operation of said registering means, said locking means comprising a plurality of differentiating means adapted to correspond to means differentiating the several conditioning devices of a group of such devices, one from the other, and comprising further group differentiating means, whereby there may be a plurality of groups of such conditioning devices, wherein individual conditioning devices of one group correspond to individual conditioning devices of another group except for group differentiation and whereby after a complete round of operation of the registering means of the box at the several conditioning devices of one group such registering means may be restored, except as to the group differentiation, and operated again at the several conditioning devices of another group.

1,394,835. FLUID-COMPRESSOR FOR MOTOR-VEHICLES. OSMOND B. HUNT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 30, 1918. Serial No. 256,265. 6 Claims. (Cl. 230—27.)



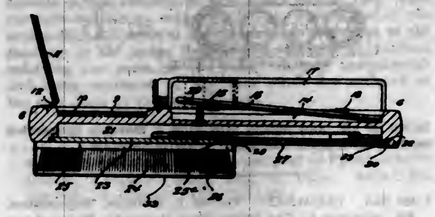
1. In a machine of the character described, in combination, a hollow cylinder, a piston fitted to reciprocate therein, a head closing one end of the cylinder having a sleeve projecting toward the piston and a partition within said sleeve mounted for axial adjustment.

1,394,836. MACHINE FOR GRINDING AND REBORING ENGINE-CYLINDERS. WILLIAM J. JACKSON, Brooklyn, N. Y. Filed Dec. 1, 1919. Serial No. 341,671. 6 Claims. (Cl. 51—43.)



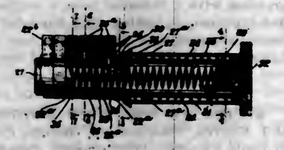
1. The combination, in a machine of the class described, of a hollow stationary head with registered openings leading from its interior, an annular guide element rotatable in the head, a shaft for being disposed interiorly of an engine cylinder and the shaft being eccentrically journaled within the guide as well as being also adjustable and slidable in the guide, mechanism for driving the shaft, mechanism operable in unison with the operation of the driving mechanism whereby the guide element will be revolved for moving the shaft in the radius of a circle while being rotated, and an adjusting device operable with the driving of the shaft for causing the shaft to move lengthwise of the engine cylinder at intervals during their rotation.

1,394,837. COMBINATION TOILET-BOX. CHARLES A. JAMES, Philadelphia, Pa. Filed Nov. 18, 1920. Serial No. 423,865. 2 Claims. (Cl. 132—87.)



1. A toilet device of the character described including a body portion providing a cavity and having a bottom plate forming a partial closure for said cavity, said body portion having a part extended beyond said plate and providing a handle; a brush having a head secured to said plate, a part of the head of the brush projecting beyond one end of the plate, said end of the plate being beveled inwardly, said cavity having an opening extending from said end of the plate to a position stopping short of the outer end of the handle, said end of the plate being undercut; and a strip for closing said opening and having a part adapted to be projected in between the head of the brush and said end of the plate; substantially as described.

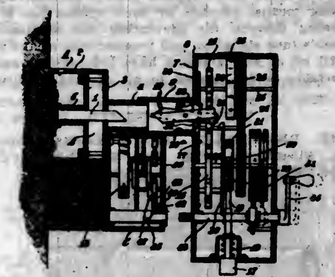
1,394,838. REGISTRY SYSTEM AND REGISTER THEREFOR. CLARENCE C. JOHNSON, Mount Vernon, N. Y., and RICHARD M. HOPKINS, Rutherford, N. J., assignors to American District Telegraph Company, Jersey City, N. J., a Corporation of New Jersey. Filed June 12, 1919. Serial No. 303,593. 32 Claims. (Cl. 234—37.5.)



1. In a registry system, the combination of a register comprising registering means and tumbler-carrying means and tumblers carried thereby and arranged to coact with said registering means, a plurality of said tumblers normally rendering the registering means inoperative, and one or more key-devices each adapted to coact with said register and each comprising a plurality of tumblers each adapted to coact with a corresponding tumbler of the register when a proper key-device is in engagement with the register and when the latter is set for engagement with that key-device, the engagement of proper tumblers of the register and key-device rendering the registering means operative.

1,394,839. REGISTRY SYSTEM. CLARENCE C. JOHNSON, Mount Vernon, N. Y., assignor to American District Telegraph Company, Jersey City, N. J., a Corporation of New Jersey. Original application filed Dec. 28, 1917. Serial No. 209,279. Divided and this application filed June 12, 1919. Serial No. 303,594. 14 Claims. (Cl. 234—39.)

1. A registry system comprising a plurality of stations each provided with a register conditioning device, a signal transmitter at one or more of said stations, and a portable register adapted to coact with each such conditioning device and arranged to be conditioned by actuation at one conditioning device, for coaction with and actuation at



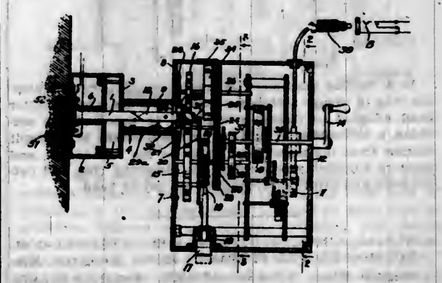
another conditioning device of the series, said register comprising means controlling the transmission of signals by said transmitter or transmitters.

1,394,840. REGISTRY APPARATUS. CLARENCE C. JOHNSON, Metuchen, and RICHARD M. HOPKINS, Rutherford, N. J., assignors to American District Telegraph Company, Jersey City, N. J., a Corporation of New Jersey. Filed Jan. 23, 1920. Serial No. 353,601. 26 Claims. (Cl. 234—37.5.)



15. In a registry system, the combination of a register and combined key device and signal transmitter for that register, said signal transmitter comprising key-operated windable signal transmitting means, the register comprising registering means and controlling tumblers therefor adapted to be actuated in various combinations, the key device comprising means for actuating a proper tumbler-combination of the register, the register adapted to serve as a winding means for said transmitter when its registering means has been released by the action of said key device.

1,394,841. WATCHMAN'S TOUR SIGNAL SYSTEM. CLARENCE C. JOHNSON, New York, N. Y., assignor to American District Telegraph Company, Jersey City, N. J., a Corporation of New Jersey. Filed Dec. 28, 1917, Serial No. 209,279. Renewed Apr. 28, 1921. Serial No. 465,248. 27 Claims. (Cl. 177—360.)



1. A watchman's signal system comprising a plurality of stations each having a conditioning device, signal trans-

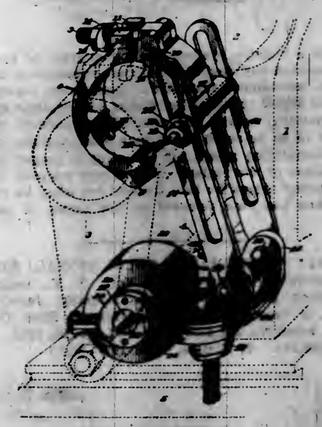
mitting means adapted to send a watchman's tour signal, and a portable device separate from said conditioning devices but adapted to be applied thereto successively and comprising means, affected by such application to said conditioning devices, for preventing the sending of a watchman's tour signal by said transmitting means unless and until all of said stations have been visited and the said portable device applied to all of said conditioning devices.

1,394,842. REAR AXLE. JOHN V. KAMMERER, Sprague, Wash. Filed Mar. 4, 1920. Serial No. 363,267. 1 Claim. (Cl. 64—27.)



The combination with an automobile rear axle tubular housing including the differential casing, of a sectional hollow shaft journaled in the tubular housing, each section of the shaft fashioned with an integral spiral rib extending throughout its length and on the exterior thereof for returning interesting material toward the differential casing.

1,394,843. VERTICAL-MILLING-MACHINE ATTACHMENT. HENRY H. KEYES, Philadelphia, Pa. Filed Mar. 3, 1919. Serial No. 280,260. 6 Claims. (Cl. 90—17.)



1. A milling machine attachment, comprising a clamping ring to engage a steady rest bar of a machine, a cutter head adapted to engage a mandrel or arbor of the machine, a tool socket in said cutter head, means to transmit motion from the mandrel or arbor to the tool socket, and hangers adjustably connecting the clamping ring and cutter head and pivotally applied to the cutter head.

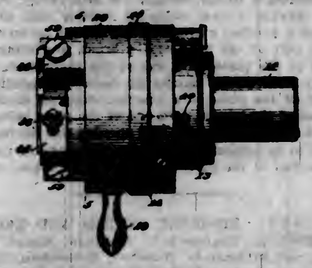
1,394,844. COOLING SYSTEM FOR INTERNAL-COMBUSTION-ENGINE PISTONS. EDWIN KJOELSEN, Minneapolis, Minn. Filed Jan. 16, 1920. Serial No. 351,872. 2 Claims. (Cl. 123—171.)

1. In an internal combustion engine, a piston having an air chamber therein, ports opening from said chamber on a side away from the combustion face of the piston, means adapted to circulate air, means for controlling the circu-



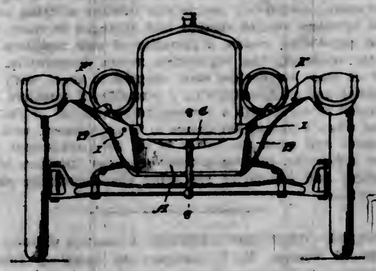
lation of air, and means providing a movable connection between said ports and said circulating means.

1,394,845. DIE-HEAD. VICTOR R. KOONTZ, Waynesboro, Pa., assignor to The Victor Tool Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed Nov. 15, 1919. Serial No. 338,260. 11 Claims. (Cl. 10—100.)



11. In mechanism of the character set forth, the combination with relatively rotatable members of a cutter holder having a pintle rotatably mounted in one of the members, said pintle having a split externally threaded terminal provided with a threaded bore, a holding nut on the threaded terminal, a locking plug threaded into the bore, and means engaged with the other member and with the holder to effect the pivotal movement of the latter.

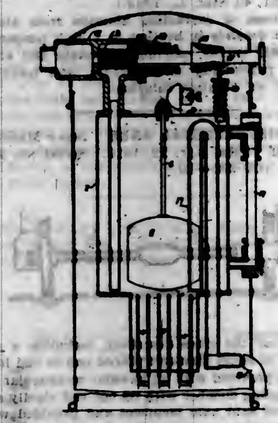
1,394,846. ACCESSORY FOR FORD AUTOMOBILES. WILLIAM J. KOSTER, Peterborough, Ontario, Canada, assignor to Louis Florence, Peterborough, Canada. Filed Mar. 10, 1919. Serial No. 281,898. 1 Claim. (Cl. 280—158.)



In combination with the front of an automobile, having a starting crank, headlights, a radiator, a channeled member on the front of the frame below the radiator to which the front springs are bolted; of a protective device for the pan of the engine including a plate having its upper edge flanged forwardly to underlie and to rest against the radiator and the said channeled member, said plate having a central slot to receive therein the starting crank, an

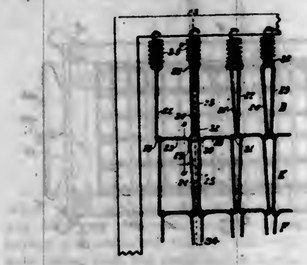
angle slotted tongue on the lower edge of the plate receiving the bolt that connects the spring to the channeled member and contacted by a nut which engages the bolt, outwardly rounded upwardly projecting wings on the ends of the plate underlying and secured to the front fenders of the automobile, said wings having their front portions serving as reflectors for the headlamps of the automobile, and twisted links secured to the plate at the junctures of the wings therewith having slotted portions receiving the posts of the lamp brackets therethrough and being contacted by the nuts which are screwed on the said posts of the said brackets.

1,394,847. ELECTRIC WATER-HEATER. CHARLES ABATT, Nottingham, England, assignor to Fluar Electric Heater, Limited. Filed Jan. 4, 1921. Serial No. 435,005. 3 Claims. (Cl. 219—38.)



1. An electric heater for heating and causing the delivery of a hot liquid including a tank connected with a supply pipe for the said liquid, a valve adapted to control the supply of the said liquid, an electric heating means associated with the said tank, a float within the said tank, means associated with the said float and adapted to switch on and off the current to the said electric heating means when the said float is moved, and means associated with the said controlling valve for enabling the outlet of air from the tank when the said controlling valve is opened.

1,394,848. WIRE MATTRESS FABRIC. JACOB LIBOW, Springfield, Mass., assignor to Frida Libow, Hampden county, Mass. Filed Oct. 26, 1920. Serial No. 419,709. 5 Claims. (Cl. 245—5.)



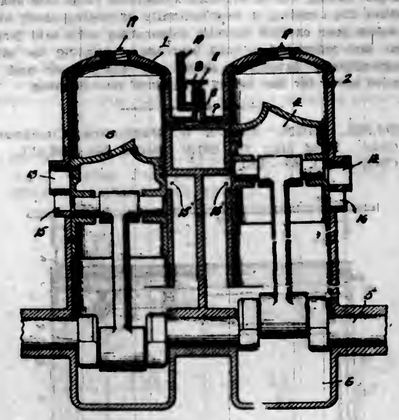
3. A wire fabric comprising a plurality of individual unit members having offsets therein, end portions extending from the offsets and formed with hooks at their ends, longest portions intermediate said portions and having only a single bend at their intermediate portions, said hooks and looped portions serving to connect the unit members together, the line of connection being in substantially straight lines from end to end of the fabric to prevent sagging.

1,394,849. SPRING-MATTRESS SUPPORT. HARRY LITVAK, New York, N. Y. Filed July 22, 1920. Serial No. 398,676. 1 Claim. (Cl. 5—65.)



A spring mattress support comprising a spring receiving frame and a bed spring therefor, said frame comprising two part hinged end rails and longitudinally adjustable side rails secured thereto; said spring comprising two longitudinally hinged sections secured to two part hinged end attaching members, and means for detachably securing the latter to said end rails in parallel relation thereto whereby said end rails, spring sections and attaching members may be folded together, said means serving also to adjust the tension in said spring sections.

1,394,850. INTERNAL-COMBUSTION ENGINE. ALBERT R. LONG, Ballston, Va. Filed Sept. 24, 1919. Serial No. 325,977. 6 Claims. (Cl. 123—59.)



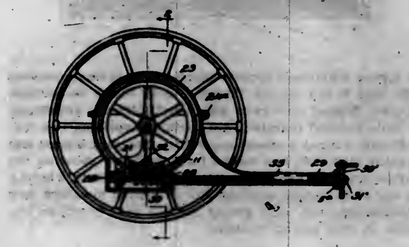
1. In a two cycle multiple cylinder engine, an unobstructed valveless fuel conduit connecting each pair of cylinders, a fuel supply means common to each pair of cylinders, exhaust means for the cylinders, and means in proximity to said exhaust means for supplying a scavenging current of air to said cylinders and partially exhausting the same therefrom, the fuel supply means and fuel conduit being so arranged and the pistons so timed in their cycle of operation that the pressure created by

the explosion in one cylinder will act as the injection means for the fuel through said conduit into the other cylinder, when the pressure within the latter is near its minimum.

1,394,851. MANUFACTURE OF ANTHRAQUINONE DERIVATIVES AND NEW PRODUCTS RESULTING THEREFROM. ARTHUR LÖTTRINGHAUS, Mannheim, and LUDWIG NIEFFLANDER, Ludwigshafen-on-the-Rhine, Germany, assignors to Adolf Kuttroff, New York, N. Y. Filed Nov. 3, 1920. Serial No. 421,540. 9 Claims. (Cl. 23—24.)

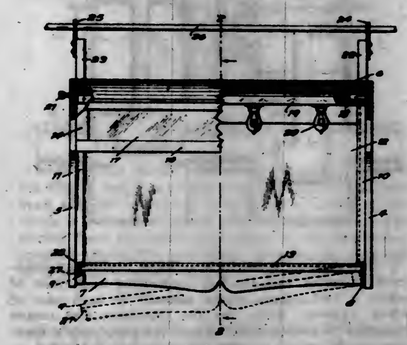
1. The process of manufacturing anthraquinone derivatives substituted by at least one aryl-amino group which consists in treating an amino-anthraquinone compound with a metal aryild in the presence of a primary aromatic amino compound.

1,394,852. WORM-GEAR. CLAUDE H. MCCLURE, Oaktown, Ind. Filed Feb. 9, 1921. Serial No. 443,690. 2 Claims. (Cl. 74—96.)



1. The combination of a drive shaft and supporting wheels therefor, a large toothed gear positioned in proximity to one of said wheels and rotatable by said shaft, an integral housing for said shaft and toothed gear, a hanger having alined bearings suspended from said shaft within the housing, a longitudinally extending shaft and a worm gear carried thereby coöperating with said large gear and journaled in said bearings, a housing for said longitudinally extending shaft and worm gear and a hinged cover for the top of said large gear housing.

1,394,853. SIGN. ADOLPH W. MARGILETH, Cincinnati, Ohio. Filed May 10, 1919. Serial No. 296,111. 1 Claim. (Cl. 40—130.)

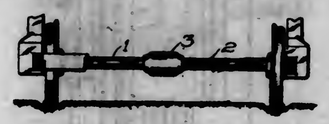


In a display sign the combination of sides, a roof connecting the sides at their upper ends, coöperating guide stripe mounted on each side, each guide strip having a longitudinal slot parallel with the sides, a bottom strip pivotally mounted on one of the sides and having a groove in alinement with the slots in the guide strips and registering therewith, a catch on the free end of the bottom strip adapted to engage the guide strip on the other side, a sign board engaging in the slots in the guide strips and bottom strips, a frame depending from the roof on each side of the guide strips and secured upon the sides, transparencies mounted on the frames, a lamp holder mounted between the frames and the guide strips, and lamps mounted on the lamp holders adapted to illuminate the sign board and the transparencies.

1,394,854. PROCESS OF MANUFACTURE OF PURE ALUMINA. BENNET MARTIN, Marseille, France. Filed Aug. 19, 1919. Serial No. 318,003. 4 Claims. (Cl. 23—13.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

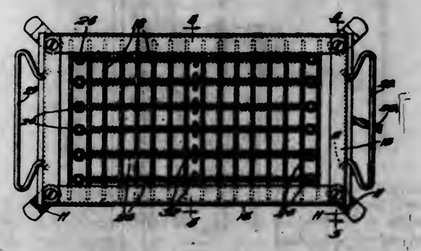
2. The process of extracting alumina from aluminous earths, which consists in heating to a high temperature a mixture of said earths, calcium carbonate and an alkali metal salts, pulverizing said mixture, and leaching the mixture with an alkaline solution.

1,394,855. DIFFERENTIAL AXLE. ISAAC MARTIN, San Diego, Calif. Filed Apr. 22, 1919. Serial No. 291,832. 3 Claims. (Cl. 295—39.)



1. An axle of the class described, including a pair of axle members of equal diameter placed end to end in alinement, the one provided with an annular rectangular groove therein, a coupling member with its one end rigidly secured to the other of said axle members and provided with an annular rectangular groove registering with the annular rectangular groove in said axle member and with a rectangularly shaped inwardly converging walled aperture therein extending from the outside to said groove for admitting a key in sections and an annular rectangular key formed of a plurality of sections so shaped as to completely fill the space formed by the annular rectangular grooves in said axle and said coupling for preventing longitudinal movement of said axle members relatively to each other but permitting revoluble movement, each section provided with a threaded hole therein to facilitate its removal.

1,394,856. ELECTRIC TOASTER. IRWIN J. MENDELS, Chicago, Ill., assignor to Empire Transformer Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 31, 1920. Serial No. 355,476. 9 Claims. (Cl. 219—19.)



1. An electric toaster heating unit comprising elements constituting fractional lengths of the unit having means

to connect them to a source of electrical energy, and means at each end of each length to permit separate removal of said length from and its replacement in said unit.

1,394,857. RADIATOR-CORE. JACOB W. MILLER, Hanover, Pa. Filed Aug. 18, 1920. Serial No. 403,244. 5 Claims. (Cl. 257—128.)



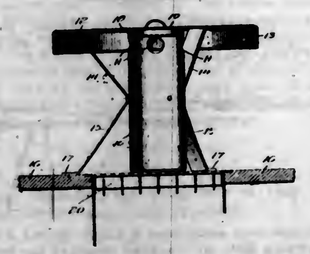
1. A radiator core including horisontal triangular cells connected at their ends and having their body portions spaced apart to form intervening circulating spaces, said triangular cells each having one of their sides arranged vertically and their other sides at an inclination to form only vertical and inclined intervening water circulating spaces to produce a positive gravity flow of the water from the top to the bottom of the radiator throughut the entire water spaces.

1,394,858. DRAFT APPLIANCE. JOHN R. MOORE, Plains, Kans. Filed Feb. 24, 1921. Serial No. 447,473. 3 Claims. (Cl. 278—98.)



2. A draft-tree comprising a main bar, longitudinally adjustable end sections carried thereby, means for locking the end sections to the main bar, and a truss having adjustable connections at its ends with the end sections.

1,394,859. AIR MOISTENING AND DISTRIBUTING DEVICE. CHARLES W. MOSHER, Cattaraugus, N. Y. Filed Dec. 18, 1920. Serial No. 431,689. 2 Claims. (Cl. 98—51.)



2. A device of the class described comprising a container for a moisture disseminating fluid, a distributing and deflecting member extending over the container and having a downturned margin, and with an opening communicating with the container, a closure for the opening, braces between said container and distributing and deflecting member, and supports carried by said container to engage the floor upon which the container rests.

1,394,860. GASOLENE-FLOW-LINE LOCK. CHESS S. NEVILLE, Kansas City, Mo., assignor of one-half to Clarence D. Armstrong, Los Angeles, Calif. Filed Mar. 10, 1921. Serial No. 451,840. 3 Claims. (Cl. 251—6.)



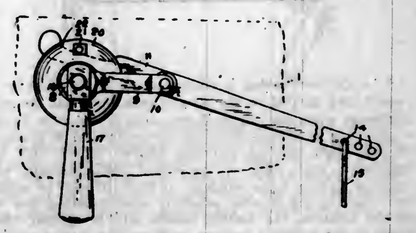
1. A device of the character described, comprising a casing provided with inlet and outlet ports, a rotary valve in said casing, adapted to control said ports, a stem for said valve, friction means for opposing movement of the valve on its seat, a cam mounted on the stem of said valve, a manually operable lever adapted to contact with said cam for moving the valve in one direction, and key operable mechanism for moving said valve in the opposite direction through contact with said cam.

1,394,861. PUMP OR MOTOR. FRANK REAUGH, Oakcliff, Tex. Filed Aug. 26, 1919. Serial No. 320,005. 8 Claims. (Cl. 103—44.)



1. The combination with a casing having a stationary core together forming an angular passage with inlet and outlet ports, a rotor, pistons mounted thereon to revolve through said annular passage, separate gears for said pistons, a stationary gear of one half the pitch diameter of said piston gears, and a plurality of intermediate gears, each intermediate gear meshing with said stationary gear and with two separate piston gears to effect the rotation of said pistons on their own axes at half the speed of revolution of the rotor and in the opposite direction thereto.

1,394,862. LIFT FOR FLUSH-VALVES. MILTON C. RENO, Corliss, Pa. Filed Feb. 3, 1920. Serial No. 355,911. 1 Claim. (Cl. 74—5.)



A lift for the purpose set forth comprising a sleeve adapted to be extended through the wall of a flushing tank and provided on its inner end with a shoulder and its outer portion with peripheral threads and a squared portion between the threads and the shoulder, a shaft extending through the sleeve, a nut on the shaft, a nut inclosing the threaded portion of the sleeve and co-acting with the nut on the shaft to secure the sleeve to the wall, a pin carrying member on the inner end of the shaft, an elongated pin

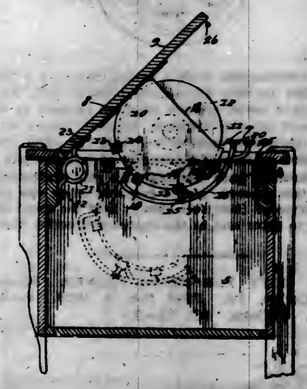
extended from said member, a bracket integral with said shoulder and extended inwardly, a shaft secured to the bracket, a lift lever extending in the same plane throughout and pivoted on the shaft secured to the bracket and having its top edge depressed to provide a recess in which said pin operates to tilt the lever, and a weighted handle on the outer end of said shaft.

1,394,863. REVERSIBLE TEMPLE MEMBER FOR SPECTACLES. EDWIN REYNOLDS, Vineland, N. J. Filed June 4, 1921. Serial No. 475,125. 7 Claims. (Cl. 88—53.)



1. In combination with a spectacle frame including an angularly directed stop ledge, a reversible temple eccentrically fulcrumed on said frame.

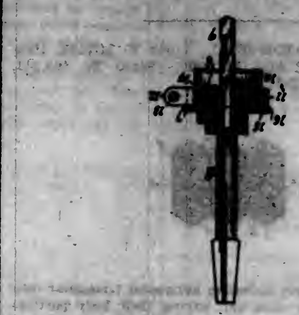
1,394,864. RECORD-RACK CABINET. GEORGE G. ROSS, South Greensburg, Pa. Filed Sept. 27, 1920. Serial No. 412,921. 3 Claims. (Cl. 211—16.)



1. A cabinet having a compartment, a lid therefor, a record rack carried by the lid and extending into the compartment when the lid is closed, said record rack having a plurality of record receiving compartments, a plurality of individual ejectors pivotally carried by the rack and concentric with each of the record compartments, said ejectors having arms tangent to and adapted to engage the edges of the records, whereby upon pressing any one of the ejectors, the desired record may be ejected, abutment to act as stops for the ejectors, and spring tensioning means for holding the ejectors in contact with the abutments.

1,394,865. METAL-DRILL. HERMAN SAUCKE, New York, N. Y. Filed Sept. 26, 1919. Serial No. 326,507. 3 Claims. (Cl. 77—69.)

2. A metal drill comprising a cylindrical holder having a rim surrounding the top, a segmental saw arranged about the holder to abut against the rim, an adjustable band embracing the saw, and a ledge formed on the holder coacting with the ends of the saw for eliminating circumferential shift of the saw.



1,394,866. BICYCLE. CURT E. G. SCHOENKNECHT, Newark, N. J. Filed Jan. 11, 1921. Serial No. 436,412. 3 Claims. (Cl. 208—95.)



1. A bicycle comprising a rear frame member including a main post, a top tube, a lower tube, said tubes being parallel their entire length, the lower tube having its rear end free, a brace connecting the tubes adjacent their front ends, a truss connecting the bottom part of the main post with the bottom tube beneath the brace, a front frame member including a steering head, and rods rigidly secured to the steering head and alined with said tubes, and means for adjustably securing the rods in the tubes.

1,394,867. TONSILOTOME. JOHN SKLAR, Brooklyn, N. Y. Filed Aug. 5, 1920. Serial No. 401,295. 5 Claims. (Cl. 128—320.)

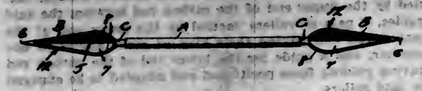


1. A tonsilotome comprising a holder having a rack, a cutter carrying slide with a pawl engaging the rack, and means connected to the slide for moving the pawl out of action to actuate the slide.

1,394,868. SCRAPER. ALBERT SMITH, Leetonia, Ohio. Filed May 8, 1920. Serial No. 380,015. 1 Claim. (Cl. 145—47.)

A scraper having a blade with angularly disposed leaves, said leaves tapering to a point, the lower or free edges

of said leaves having a substantially straight portion, a curved portion leading therefrom to the point, a second



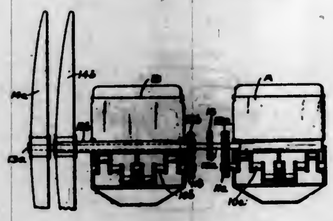
curved portion leading from the straight portion, a handle, and a reduced connecting means between the blade and handle to reduce chattering.

1,394,869. ART OF RUG-WEAVING AND THE PRODUCT RESULTING THEREFROM. DAVID H. STROUD, Jr., Philadelphia, Pa. Filed Jan. 25, 1919. Serial No. 273,019. 7 Claims. (Cl. 139—71.)



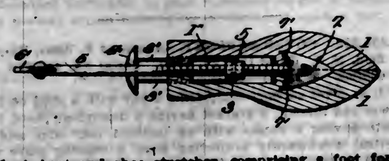
1. A rug having a woven body portion comprising interwoven series of wefts and binder warps with stuffer warps inlaid therein coextensively with said binder warps, and a woven edging comprising wefts interwoven with one class of the aforesaid warps to the exclusion of the rest.

1,394,870. DRIVING CONNECTIONS FOR AIRPLANE-ENGINES. BENJAMIN DOUGLAS THOMAS, Ithaca, N. Y., assignor of one-tenth to Thomas-Morse Aircraft Corporation, Ithaca, N. Y., a Corporation of New York. Filed Feb. 28, 1920. Serial No. 361,947. 4 Claims. (Cl. 244—25.)



1. In an airplane, the combination of a plurality of engines, a hollow shaft mounted on the engine frame and having a driving gear at the rear thereof, a propeller fixed on the front end of said shaft, another shaft rotatably mounted within and extending through said hollow shaft, another propeller fixed on the front end of the inner shaft, a driving gear at the rear end of said inner shaft, and driving connections from the respective engines to said gears on the outer and inner shafts.

1,394,871. BOOT AND SHOE STRETCHER. LEWIS WALKER, Richmond, Va. Filed July 29, 1920. Serial No. 399,755. 4 Claims. (Cl. 12—128.3.)



1. A boot and shoe stretcher, comprising a foot form composed of two side parts and a heel part, each of said side parts having two longitudinally extending recesses, one forward of the other, the rear wall of the forward recess being provided with an opening which registers with a similar opening extending through the rear wall of the other recess, a wedge substantially arrow-shaped, adapted to engage the forward recess, a screw threaded lug mounted in the other recess, a longitudinally extending rod, screw threaded at a portion of its length, mounted in the openings in the rear walls of said recesses, said rod engaging the screw threaded lug and being swiveled to the wedge, and means for manually rotating said rod.

1,394,872. LOCKING DEVICE FOR AUTOMOBILES. JESSEE MERCER WHITE, Philadelphia, Pa. Filed June 17, 1920. Serial No. 389,562. 11 Claims. (Cl. 70—9.0.)



1. In a device of the character described, the combination of a member normally rotatable in either direction; a selective lock; and means having portions optionally operative and controlled through the medium of said lock to effect the locking of said member against movement in either direction or the locking of said member against movement in one direction only; substantially as described.

1,394,873. ARCH AND ARCH-BRICK. ALFRED H. WILLETT, West New York, N. J., assignor to American Arch Company, New York, N. Y., a Corporation of New York. Filed July 10, 1916. Serial No. 108,806. 9 Claims. (Cl. 110—37.)

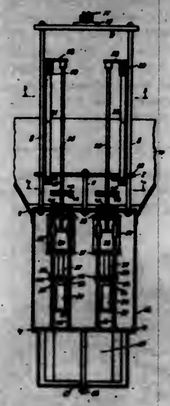


9. A locomotive arch composed of a plurality of baffle units spanning the distance between supporting members, said units being so constructed that when they are all arranged in one position they form an arch of unbroken continuity but when certain of said units are arranged in another position openings are afforded through the arch.

1,394,874. METHOD OF TREATING BITUMINOUS SUBSTANCES. GEORGE A. WILSON, Jr., Boston, Mass., assignor to Carolina Pavement Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 21, 1920. Serial No. 353,096. 4 Claims. (Cl. 106—31.)

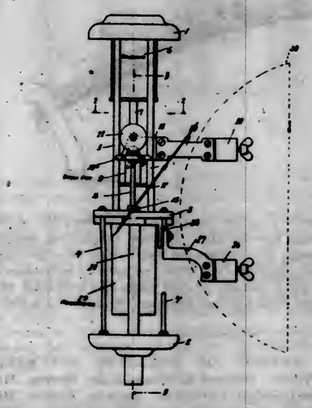
2. A bituminous cement comprising bitumen and substantially less than one per cent. of anhydrous borax.

1,394,875. ARC-LAMP. MAURICE J. WOHL, Brooklyn, N. Y. Filed Jan. 14, 1918. Serial No. 211,786. 2 Claims. (Cl. 176—59.)



1. An arc lamp having a frame consisting of a pair of horizontally disposed and vertically spaced disks, a solenoid located under and secured to the lower disk and having its core extending upward through the latter, a clutch disposed above and adjacent the lower disk, an operative connection between said clutch and the said core, a pair of rods extending rigidly downward from the lower disk, a crosshead slidable on said rods, a dummy carbon fixed at its lower end to said crosshead and extending upward through the said disks and being guided by the upper disk, said dummy carbon being in engagement with the said clutch, and a pair of carbon sockets carried respectively by the upper end of said dummy carbon and by one of said disks.

1,394,876. ARC-LAMP. MAURICE J. WOHL and HARRY HERTZBERG, New York, N. Y., assignors to M. J. Wohl and Company, Inc., a Corporation of New York. Filed June 14, 1918. Serial No. 239,947. 3 Claims. (Cl. 176—51.)



2. In an arc lamp, the combination with control mechanism including a clutch, of a carbon rod engaged by said clutch, a pair of guide members for the upper end of said carbon rod disposed on opposite sides thereof, a roller carried by the upper end of the carbon rod between the said guides, a pair of rollers carried by the lower end of the carbon rod and having their axes at right angles to one another, and a guide for the lower end of the carbon rod having guiding faces positioned and adapted to be engaged by said rollers.

1,394,877. BRACELET AND THE LIKE. WALTER C. WOOD, Cranston, R. I. Filed Jan. 15, 1921. Serial No. 437,546. 2 Claims. (Cl. 59—80.)



1. An article of the character described comprising a plurality of links, each having a shallow concaved body constructed of a sheet metal plate with oppositely projecting extensions integral with the outer edge of said body both of said extensions being offset inwardly and one of the extensions being folded to loosely engage the opposite extension of the next adjacent link to hingedly connect the links together.

1,394,878. SHUTTLE. CHARLES S. WRIGHT, West Stoughton, Mass. Filed Dec. 18, 1920. Serial No. 431,734. 2 Claims. (Cl. 139—27.)



1. A shuttle having a bobbin-receiving recess and a forked bobbin-holding spring, the arms of the spring having relatively wide ends, the upper edges whereof are only slightly below the top of the shuttle, said arms being provided with notches to receive the rings on the bobbin heel and being curved inwardly from the notches to the upper edges, each arm having a beveled top edge which forms with the inward curvature a ridge or shoulder closely adjacent the top edge of the arm whereby when a bobbin has been carried into a shuttle sufficiently so that the horizontal diameter of the heel is below the shoulder or ridge, the resiliency of the spring arms together with the curvature thereof will force the bobbin heel into the notches.

1,394,879. COVER-SUPPORT. ANTHONY F. ZEGA, Bloomfield, N. J. Filed Oct. 27, 1920. Serial No. 419,816. 3 Claims. (Cl. 217—69.)

1. A cover support comprising a bar with a stud on the lower end thereof, a bracket having a dependent plate, the plate having a recess with an inclined rear edge and a central downwardly projecting nose, a bearing plate secured to said plate and formed into a channeled part adjacent to said rear edge of the recess and then extending upwardly to form a wing substantially in line with the plate and recessed on its top edge to receive the stud, and



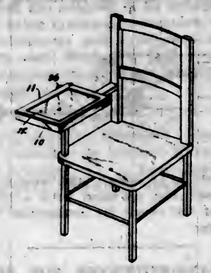
a pawl pivoted to said wing with its end resting by gravity on the bottom part of the rear edge of the recess.

1,394,880. LOCK-SCREW. LOUIS BADOIS and DOLPHY KAHN, Paris, France. Filed Jan. 29, 1921. Serial No. 440,830. 2 Claims. (Cl. 151—18.)

1. An arrangement of lock screw including a cylindrical bearing provided on those parts of the nut and of the threaded piece receiving the screw to be locked in position which are opposite to each other, said bearings being intended to act together with a metallic ring or washer arranged between the said nut and the said threaded piece and having a slightly smaller diameter, in such a manner that the combined action of the said two bearings shall subject it to an embossing altering slightly its shape, whereby a very strong connection between the nut and the threaded piece receiving the screw to be locked in position is insured, the height of the said washer being determined preferably in such a manner as not to hamper the normal action exerted by a check-nut upon a nut.

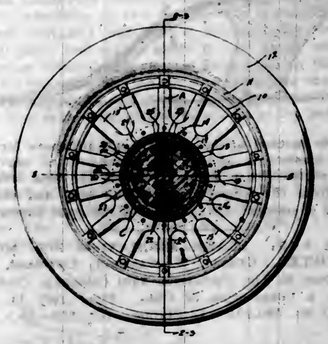
1,394,881. ADVERTISING DEVICE. JOSE MARTINEZ BARDERA, New York, N. Y. Filed June 5, 1920. Serial No. 386,749. 1 Claim. (Cl. 40—96.)

In combination with the arm of a chair or the like support, a casing adapted to be secured to said arm having a display opening in the top face thereof, another casing mounted on the interior of said first mentioned casing, guide rollers journaled in the sides of said inner casing, sprocket wheels, a tape bearing advertising matter hav-



ing openings adapted to engage with said sprocket wheels, said inner casing having one of said sides split as and for the purpose described and specified.

1,394,882. VEHICLE-WHEEL. EDWARD D. BEAUMONT, Phoenix, Ariz., assignor of one-half to Jeang Ying Hung, Phoenix, Ariz. Filed Feb. 12, 1920. Serial No. 358,280. 1 Claim. (Cl. 301—136.)



In combination with a vehicle axle, of a resilient wheel including an inner hub, an outer hub rotatably mounted on the inner hub, a block non-rotatably mounted in the inner hub having a vertical slot therein arranged to slidably receive the axle, the opposite walls of the slot being provided with vertically disposed guide ways having inclined upper and lower stop shoulders, a rigid collar carried by the axle slidably mounted in the guide way, the collar including upper and lower inclined stop shoulders for engaging the shoulders formed on the guide ways to limit the sliding movement of the inner hub and axle in relation to each other, the side faces of the collar engaging the inner faces of the guide ways to prevent lateral movement of the axle in relation to the inner hub, and expansion springs disposed in the slots engaging the end walls of the slots and the opposite faces of the axles.

1,394,883. TRACTOR-PLATFORM. WILLY JOHN BERNARD, New Iberia, La., assignor to A. M. Bernard Wagon Works, New Iberia, La., a Corporation of Louisiana. Filed July 30, 1920. Serial No. 400,144. 2 Claims. (Cl. 280—165.)

1. A device of the character specified, comprising a plate having its side edges upturned to form guards, said plate having at opposite ends of its front edge an upwardly and forwardly offset extension provided with attaching

cilge for connecting said extensions to the rear axle housing of a tractor, said plate having intermediate the ends of its rear edge a tongue for connection with the draw



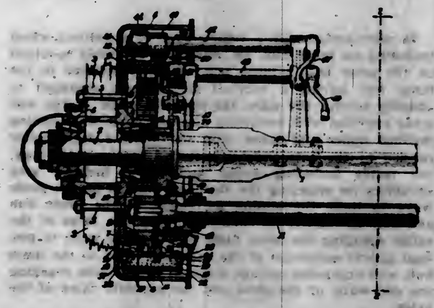
bar of the article to be drawn, and having its front edge centrally recessed and provided with a hitching tongue at the center of the recess for connection with the draw bar of the tractor.

1,394,884. SHANK-STIFFENER FOR SHOES. MARK CANOMS, Brooklyn, N. Y. Filed Jan. 26, 1919. Serial No. 273,550. 2 Claims. (Cl. 12—146.)



1. The method of preparing shank stiffeners for shoes which consists in skiving the inner-sole to convex its under surface, then partly splitting the sole longitudinally from the forward end to the heel, and then arranging a resilient shank between the split portions.

1,394,885. BRAKE MECHANISM FOR MOTOR-VEHICLES. GUSTAV W. CARLSON, Cleveland, Ohio, assignor to The Torbensen Axle Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 14, 1920. Serial No. 396,221. 13 Claims. (Cl. 188—79.)



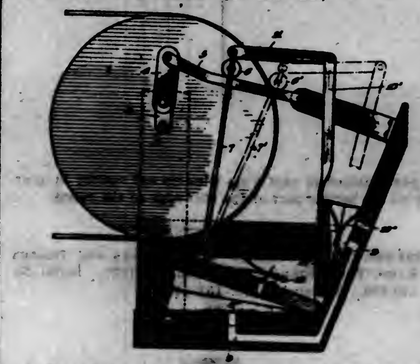
13. In apparatus of the character described, the combination of a rotatable wheel and its axle, a brake drum secured to the wheel, a stationary spider, two separate and independent brakes arranged adjacent each other side by side within the drum to operate thereon, each brake comprising two sections pivotally supported on the spider at adjacent points, and means on the spider slidingly engaging the sections of the brakes at points remote from their pivot ends, to keep adjacent sections of the two brakes properly spaced one from the other.

1,394,886. SAFETY-RAZOR. JOHN J. CARSON, Bonham, Tex. Filed Apr. 12, 1920. Serial No. 373,681. 5 Claims. (Cl. 30—12.)



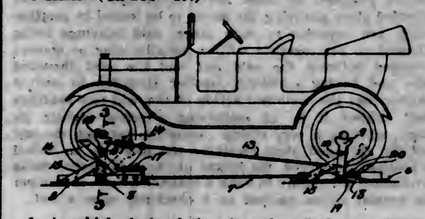
1. In a razor, a support, a blade carriage reciprocating on the support and removable therefrom, a blade mounted in the carriage and movable therewith, means on the support and blade to retain the carriage on the support, a handle carrying the support, and an operating member carried by the handle and having connection with the carriage for reciprocating the same.

1,394,887. PUMP GOVERNOR MECHANISM. WILLIAM F. COORPS, Norwalk, Ohio. Filed May 24, 1917. Serial No. 170,579. 5 Claims. (Cl. 230—24.)



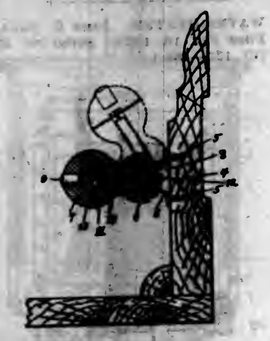
1. In a player piano, the combination of a suction pump for producing a suction in said player piano, an electric motor for driving said suction pump, said suction pump comprising a feeder bellows and a driving wheel therefor, said driving wheel being connected to said electric motor, a system of links connecting said driving wheel with said feeder bellows, and a regulating bellows having connection with said system of links to govern the stroke of said feeder bellows.

1,394,888. AUTOMOBILE-JACK. RICHARD F. DOWNEY, Milwaukee, Wis., assignor to Automatic Auto Jack Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 19, 1920. Serial No. 404,553. 5 Claims. (Cl. 254—89.)



1. A vehicle jack of the class described comprising a front frame, a rear frame, said frames being adapted to lie flat on a supporting surface, substantially nonflexible connecting links extending from the rear frame and pivotally connected with a front frame, front axle support members pivoted to and upstanding from the front frame, rear axle support members pivoted to and upstanding from the rear frame and means for holding said members in raised position.

1,394,889. DOOR-STOP. CHARLES O. FOUNTOCK and ROY J. FOUNTOCK, Chicago, Ill. Filed Aug. 16, 1920. Serial No. 403,807. 2 Claims. (Cl. 16—84.)

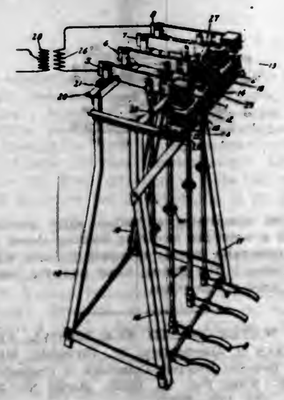


1. In a door stop, the combination with a base adapted to be attached to woodwork, a stop member having a rigid body and an elastic member secured therein, a spring disposed in said body and connected thereto and to the base, the base and body being provided with bearing surfaces which permit the body to be swung relatively to the base while preventing longitudinal movement of the stop member when it is struck by a door.

1,394,890. PROCESS OF APPLYING COATED FABRICS TO OBJECTS. HENRY GAULT, Strassburg, France, assignor of one-half to Philip Drinker, Bethlehem, Pa. Filed Mar. 13, 1920. Serial No. 365,622. 11 Claims. (Cl. 91—68.)

1. The process which comprises applying a coating of a cellulose ester to a fabric, drying it, then moistening the fabric, attaching it to an object, drying it, and applying a solvent wash.

1,394,891. ELECTRIC HEATING APPARATUS. HENRY GRISSINGER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 21, 1920. Serial No. 390,506. 8 Claims. (Cl. 219—11.)



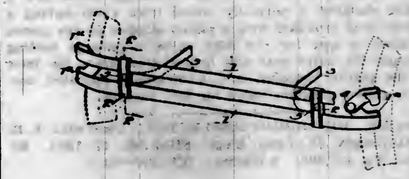
1. An electric heating apparatus of the class described comprising a plurality of independently movable conducting bars, electrodes mounted on said bars and conducting means between which and the movable electrodes the articles to be heated are adapted to be interposed, said conducting means being arranged to complete a series circuit through said electrodes and articles to be heated, and means whereby said electrodes and conducting means coöperate to complete the circuit whenever an interposed article is removed.

1,394,892. AUTOMOBILE-BUMPER. OSCAR H. GOETZ, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Aug. 6, 1921. Serial No. 490,298. 3 Claims. (Cl. 293—55.)



1. An automobile bumper comprising a duplex impact member consisting of two transversely extending spring bars set vertically edgewise in substantially the same vertical plane and spaced apart in that plane, both said bars being reflexed rearward at both ends to form end loops for guarding the vehicle wheel, the two bars being integral throughout said loops, being flexed vertically to merge with each other at the inner ends of the loops.

1,394,893. AUTOMOBILE-BUMPER. OSCAR H. GOETZ, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Aug. 6, 1921. Serial No. 490,299. 3 Claims. (Cl. 293—55.)

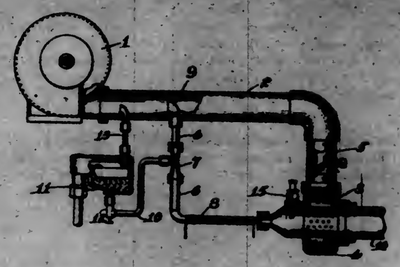


1. An automobile bumper comprising an impact member having two horizontal transversely extending bars, set vertically edgewise in substantially the same vertical plane, both being similarly reflexed rearward at both ends, and having the reflexed parts at each end flexed vertically toward each other and united, whereby there are formed double-barred hooks for guarding the wheels; and supporting arms secured to both said impact bars at points inward from the end loops respectively.

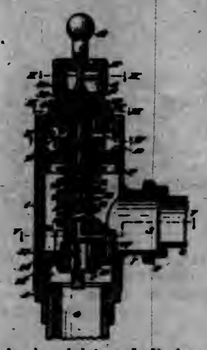
1,394,894. INCLOSED VAPOR-BURNER. JOHN GOOD, Brooklyn, N. Y., assignor to Good Inventions Co., Brooklyn, N. Y., a Corporation of New York. Filed Aug. 18, 1917. Serial No. 186,881. 24 Claims. (Cl. 158—28.)

1. Electrically-ignited vapor burner apparatus comprising an ignition space containing an electric igniter, electrically heated means for supplying a rich mixture of vaporous fuel and air, an entrance for conducting such mixture into igniting relation to the igniter in said space,

means for admitting air to sustain the flame resulting from the ignition of said mixture and means for coincidently causing said mixture and air to flow into said ignition space.

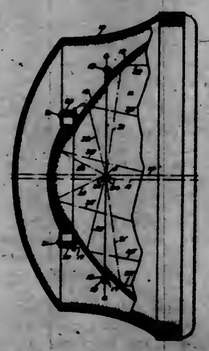


1,394,895. VALVE. BARTH J. GRIFFIN, Springfield, Mass. Filed Feb. 24, 1920. Serial No. 360,677. 11 Claims. (Cl. 137—93.)



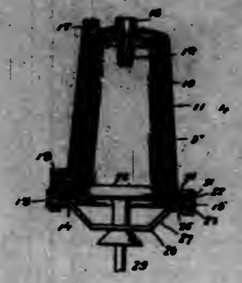
1. A casing having inlet and discharge ports and a piston chamber, a normally closed inlet valve having a hollow stem provided with a piston slidable in the piston chamber, a seat for the inlet valve, a passage leading through the valve seat and hollow stem from the inlet to the piston chamber, and a manually operated normally closed auxiliary valve for said passage.

1,394,896. HEADLIGHT-REFLECTOR. CROMWELL A. B. HALVORSON, Jr., Lynn, Mass. Filed Jan. 17, 1921. Serial No. 437,696. 6 Claims. (Cl. 240—41.)



2. A reflector comprising two transversely truncated reflecting surfaces of revolution secured together with their axes displaced but parallel, and with their focal planes coincident, in combination with a source of light in the focus of the surface forming the front part of the reflector.

1,394,897. WATER-HEATER. JOHN G. HAUS, Weirton, W. Va. Filed Feb. 16, 1920. Serial No. 359,119. 2 Claims. (Cl. 122—156.)



1. A water heater comprising an outer shell provided in its upper portion at one side with an outlet nipple for connection of an outlet pipe, said outer shell being formed at one side in its lower portion with a nipple for connection of an inlet pipe, an inner shell disposed within and spaced from said outer shell whereby to provide an annular water chamber, a transverse bracket secured beneath said superposed shell, a burner carried by said bracket, said outer shell being formed centrally of its top with a tubular upward extension and the inner shell being provided with a tubular downward extension registering with the first named extension, and means cutting off communication between said chamber and the bores of said extensions.

1,394,898. PISTON. GEORGE V. HARRIMAN, New York, N. Y. Filed May 23, 1918. Serial No. 236,109. 16 Claims. (Cl. 74—108.)

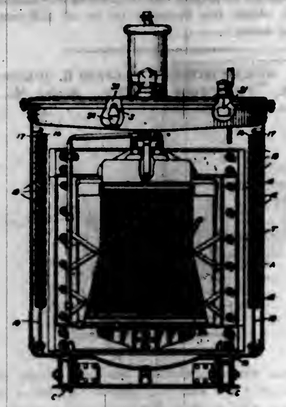


1. A piston comprising a hollow skirt provided interiorly with a wrist-pin receiving bearing closed at both ends; and removable means disposed in said skirt and removable through the piston head and for removably holding the wrist-pin in place.

1,394,899. WATER-COOLED ELECTRICAL APPARATUS. ALLAN B. HENDRICKS, Jr., Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Feb. 24, 1920. Serial No. 360,912. 8 Claims. (Cl. 175—361.)

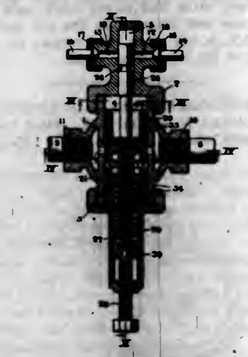
1. In inclosed electrical apparatus having main and auxiliary cooling mediums, the combination with cooling

coils, of a winding arranged in close proximity thereto having means arranged to deflect laterally the vertically



rising streams of the main medium against said coils in a plurality of parallel streams.

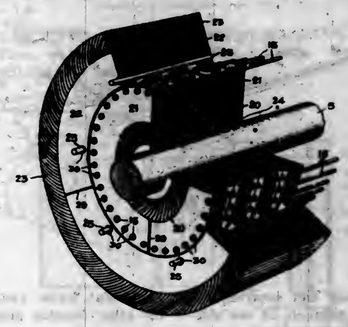
1,394,900. VALVE. PHILIP D. HIBNER, Seattle, Wash. Filed Jan. 18, 1919. Serial No. 271,857. 1 Claim. (Cl. 158—36.)



A valve comprising alined larger and smaller cylinders having their respective inlet and outlet ports, a piston valve having a member working in the larger cylinder and a member working in the smaller cylinder, spring means for moving the valve in one direction to open the ports, and a separate fluid pressure source for moving the valve in the other direction to close the ports, the valve being moved by the overbalancing of the two pressures.

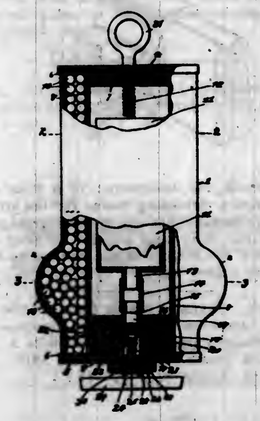
1,394,901. ELECTRICITY TRANSFORMER AND TRANSFORMING AND CONVERTING APPARATUS. HENRY M. HOBART, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 4, 1917. Serial No. 189,504. 6 Claims. (Cl. 175—356.)

4. A transformer comprising in combination, a magnetic core made up of a plurality of annular laminations spaced apart in groups to divide circumferential winding windows and forming an annular core member having inner and outer cylindrical surfaces, two solid annular core members made up of a plurality of laminations bent in the form of involutes arranged in contact with the inner and outer cylindrical surfaces of the annular core



member made up of said annular laminations and adapted to complete the magnetic circuit at the outer and inner surfaces thereof, and windings assembled in said winding windows.

1,394,902. AERIAL BOMB. SAMUEL HOUGH, Atco, N. J. Filed July 9, 1919. Serial No. 309,761. 5 Claims. (Cl. 102—2.)

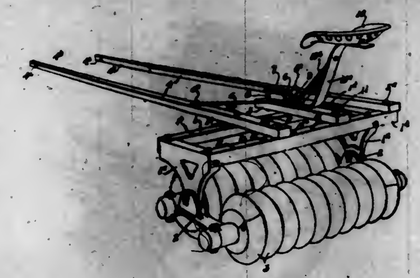


5. In a device of the character stated, a casing, a head for each end of said casing, a tube within said casing concentric therewith, the ends of said tube being attached to the heads, a partition within said tube adjacent one end thereof, and an explosive container suspended within the tube with its walls normally spaced from the walls of the tube.

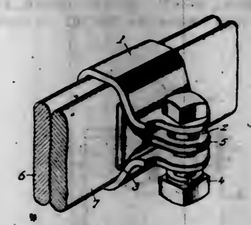
1,394,903. IMPLEMENT DRAFT APPLIANCE. ROBERT M. HUNTER, Lexington, Ky., assignor to The Dunham Company, Berea, Ohio, a Corporation of Ohio. Filed Nov. 10, 1919. Serial No. 336,783. 2 Claims. (Cl. 278—33.)

1. In an agricultural implement, an implement frame, a seat supporting member detachably mounted on said frame, brace members on said seat supporting member, draft pole members detachably secured in predetermined forwardly converging relation to each other in a centrally

arranged abutting position forming a two-pole tongue on opposite sides of said seat supporting member, and means whereby either pole member may be shifted to its respective side and secured to the implement frame and said brace members at one side or the other forming properly spaced off-set shaft members.

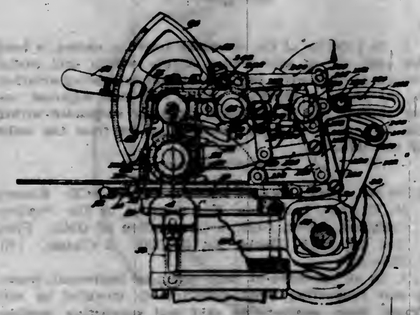


1,394,904. CLAMP. WALTER V. ISGRIG, Milwaukee, Wis., assignor to Badger Manufacturing Corporation, Milwaukee, Wis., a Corporation of Delaware. Filed July 9, 1920. Serial No. 395,096. 8 Claims. (Cl. 293—55.)



5. In a clamp, the combination of a strap adapted to receive an object, tightening means for the strap, and an independently movable spacing member arranged between the ends of the strap, and adapted to exert a gripping action between the strap and the member as the ends of the strap are drawn together.

1,394,905. MACHINE FOR PREPARING INSOLES. ALBERT E. JOHNSON, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 24, 1918. Serial No. 259,570. 26 Claims. (Cl. 12—17.)



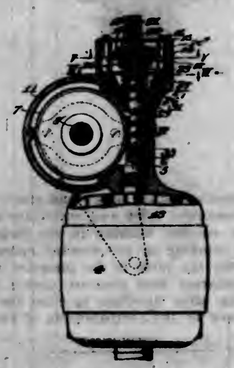
1. A machine for preparing soles having, in combination, a sole support, cutters to form oppositely disposed recesses in a sole placed on the support, mechanism for actuating the support to cause the cutters to act on the sole, and means to adjust the actuating mechanism for the support to cause the recesses to be of different lengths in different soles.

1,394,906. STRAP-HOLDER. ALFRED R. JOHNSON, Reedsville, Pa. Filed June 1, 1921. Serial No. 474,126. 2 Claims. (Cl. 139—48.)



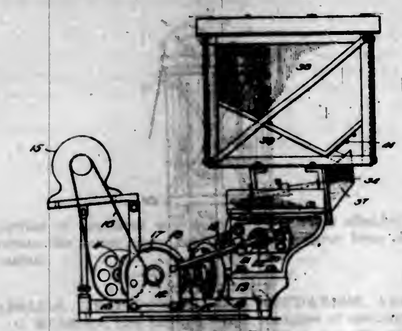
1. In combination with a picker stick and sweep stick operating the same, a power stick having a head formed at one end thereof and having a cut out portion disposed adjacent to the head, a connecting strap positioned between the power stick and picker stick, said connecting strap having one end disposed in the cut out portion of the power stick, a lug strap, and means for connecting the lug strap to the connecting strap.

1,394,907. WINDING DEVICE FOR SPRING-MOTORS. JOSEPH W. JONES, New York, N. Y. Filed Apr. 12, 1919. Serial No. 289,705. 11 Claims. (Cl. 185—40.)



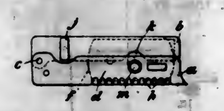
1. In a winding device for spring motors, a winding motor, and means for controlling the stopping and starting of the winding motor including two separable elements, the first element being movable in one direction by an increased resistance of the spring motor spring for moving the second element to stop the winding motor, the first element being movable away from the second element by a decreased resistance of the spring motor spring, whereby the second element may be manually moved only, to start the winding motor.

1,394,908. FEEDING MECHANISM. GUSTAVE C. KELLING, Chicago, Ill. Filed Feb. 7, 1921. Serial No. 442,977. 8 Claims. (Cl. 146—14.)



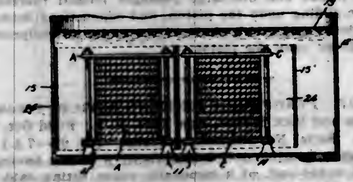
1. In mechanism for feeding peanuts and the like, a hopper, a tubular member, means for rotating said member, a chute connecting the hopper and rear end of the tubular member, and means for regulating the feed of peanuts from the hopper to the tubular member, whereby the peanuts will be fed therefrom one at a time.

1,394,909. RAZOR-BLADE HOLDER. ERNEST NORBERT KENNEDY, Birchwood, Sunningdale, England. Filed Jan. 26, 1920. Serial No. 354,049. 4 Claims. (Cl. 30—12.)



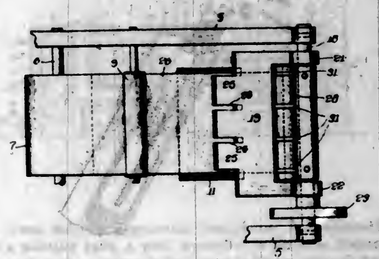
1. A device for enabling safety razor blades to be used for various other purposes besides shaving, comprising in combination, a handle portion formed of two flat strips of material connected together at their ends so as to leave a space between them, a blade holder connected to one end of said handle portion and formed of two flat strips of metal arranged side by side and connected together at their ends so as to form a wedge shaped slot between them, a safety razor blade in said slot, and means for clamping the sides of the blade holder to grip said blade in any adjusted position therein.

1,394,910. REACTOR IN TANKS. FRIEND H. KIERSTEAD, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Feb. 3, 1920. Serial No. 356,081. 3 Claims. (Cl. 175—360.)



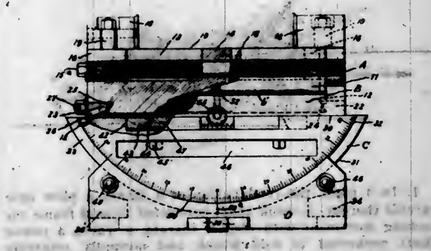
1. In air core type reactors and the like, the combination with windings, of a container adapted to hold a cooling and insulating medium in contact with said windings, and continuous conducting non-magnetic means disposed about the walls of said container and arranged to confine the main flux emanating from said windings within predetermined limits.

1,394,911. SHINGLE-CUTTING MACHINE. ROY D. KING, Chicago, Ill. Filed Nov. 1, 1920. Serial No. 420,936. 6 Claims. (Cl. 164—66.)



1. A shingle cutting machine, comprising a stationary block having alternately disposed recesses and projections over which the sheet of material to be cut is fed, a movable cutter having complemental recesses and projections cooperating with said block to sever the lower edge of a shingle strip from said sheet, and means for subsequently removing the waste projecting from the upper edge of said severed shingle strip.

1,394,912. VISE. STANISLAW J. KORKOSZ, Schenectady, N. Y. Filed July 1, 1919. Serial No. 307,940. 6 Claims. (Cl. 81—41.)



1. A vise comprising upper and lower halves which are fastened to each other and arranged for adjustment in a horizontal plane, and clamping elements carried by the upper half which are adjustable toward and away from each other, said upper half comprising two members having curved engaging surfaces which are adapted to stand in one plane and said lower half comprising two members having curved engaging surfaces which are adapted to stand in a plane at an angle to the first named plane whereby said clamping elements can be adjusted in a horizontal plane and in either of two vertical planes.

1,394,913. HEADREST FOR BARBER OR LIKE CHAIRS. GIUSEPPE CARMELO LABALA, New York, N. Y. Filed June 28, 1918. Serial No. 242,406. 19 Claims. (Cl. 155—176.)

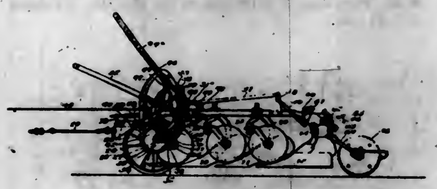
1. A barber or like chair head rest, comprising a paper roll, and a paper clamp, and a plate bearing upon said roll and forming a friction clamp and shield for com-

pletely covering one side of said paper roll, and means for removably holding said roll, said plate having means



adapted to strike against a stop to limit the inward movement when the roll is removed.

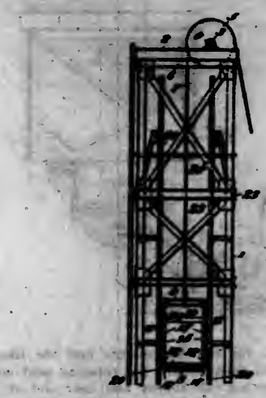
1,894,914. POWER-LIFT PLOW. ALEXUS C. LINDGREN and ROY B. JOHNSTON, Hamilton, Ontario, Canada, assignors, by mesne assignments, to Fred Gerisch and Arnold B. Keller, trustees, Chicago, Ill. Filed Nov. 19, 1917. Serial No. 202,782. 4 Claims. (Cl. 97—55.)



1. In a plow, the combination of a frame, a plow base carried thereby, a crank shaft connected to said frame for rocking movement with respect thereto, a wheel, a power shaft connected to said wheel, and normally rotatable therewith, a bearing for the power shaft mounted on said crank shaft, a rotatable clutch member secured to said power shaft and a normally stationary clutch member coöperating with said rotatable clutch member and operatively connected to the frame and control means for said clutch whereby the frame may be raised.

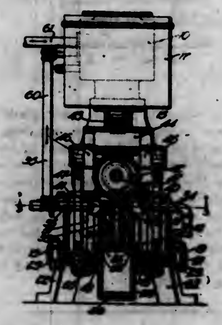
1,894,915. HOISTING APPARATUS. MICHAEL EARL LOEB, Westmont borough, Pa. Filed Nov. 6, 1920. Serial No. 422,131. 5 Claims. (Cl. 214—120.)

1. A hoisting apparatus comprising a dumping bucket provided with upper and lower guide wheels rotatably secured thereto, upright guideways coöperating with the lower guide wheels and extending above the upper limit of travel of said bucket, guideways coöperating with the upper guide wheels and provided with curved portions adapted to over-turn said bucket, the lower curved portions of the last mentioned guideways being connected with upwardly extending curved portions which merge into a further upright extension of same, a guide roller mounted on the frame-work, and a contact finger secured to the



bucket and adapted to coöperate with said guide roller, whereby the guide wheels of the bucket are constrained to move within their respective guides.

1,894,916. PUMPING UNIT. GEORGE D. LOUD, Boston, Mass. Filed Aug. 8, 1917. Serial No. 185,162. 4 Claims. (Cl. 103—67.)



1. A pumping unit comprising a motor having a crank case and crank shaft journaled therein, a pump piston rigidly secured to the under side of the crank case and having intake and discharge passages formed therein, a cylinder sliding upon the piston, and connections between the cylinder and crank shaft of the motor to reciprocate the cylinder upon the piston.

1,894,917. PYROPHORIC IGNITING DEVICE. SOLOMON LUMEN and MAX EISNER, New York, N. Y. Filed Oct. 25, 1919. Serial No. 333,264. 1 Claim. (Cl. 67—7.1.)

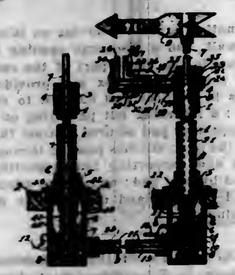
A pocket igniting device comprising a casing having a reduced upper end, of a removable cover fitting said reduced end, a wick tube in said casing adapted to expose a wick at its upper end, a friction disk mounted to rotate in a plane passing longitudinally through the wick tube and located adjacent the end of the wick tube, a sparking

element held in engagement with said friction disk, and a spring attached to said cover having a roughened surface



portion in abutment with said friction wheel adapted to rotate the latter upon removal of said cover from said casing.

1,894,918. TRAFFIC-SIGNALING MECHANISM. LEWIS C. MCADAMS, Los Angeles, Calif., assignor of one-half to J. M. Benedict, Glendale, Calif. Filed Jan. 26, 1920. Serial No. 354,268. 2 Claims. (Cl. 116—63.)



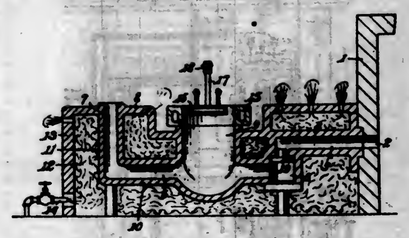
1. A traffic signaling system, comprising standards at the corner of the intersection, vertically disposed shafts in said standards, signal vanes on the upper ends of said shafts, pulleys on the lower ends of said shafts, a hollow shaft in one of said standards, surrounding the signal shaft therein, a pulley on the lower end of said shaft, cables connecting said shafts together for operation, and means connected with said hollow shaft and with the signal shaft therein, on one of said standards for operating all of said signals together at will.

1,894,919. PRAYER-RAIL. JOHN JAMES MCCANN, Toronto, Ontario, Canada. Filed Jan. 28, 1920. Serial No. 354,548. 2 Claims. (Cl. 155—166.)



1. A prayer rail, comprising, a pair of end brackets adapted to rest upon the floor and each having a vertical socket, a rail having vertical posts adapted to be inserted in said sockets and to form a rigid connection between the brackets, and a bench resting upon and extending between said end brackets.

1,894,920. GLASS-DELIVERY APPARATUS. RICHARD T. MCGEE, Wheeling, W. Va. Filed May 22, 1919. Serial No. 298,008. 4 Claims. (Cl. 49—55.)

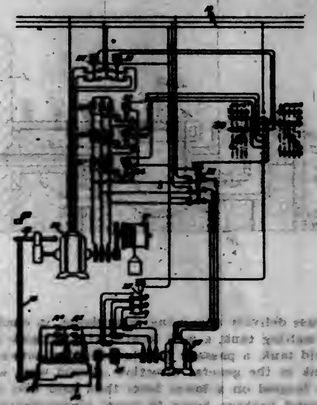


3. Glass delivery apparatus, comprising, in combination with a melting tank, a well located at a suitable distance from said tank, a passage for glass leading outward from said tank in the general direction of said well, a second passage located on a lower level than said first passage, said second passage being in open communication with said well and being adapted to receive glass by gravitation from said first passage, and means for producing glass displacement within said second passage for ejecting glass from the mouth of said well.

1,894,921. PRIMING DEVICE. EDWARD C. MCKENZIE-MARTIN and FRANK A. HOWARD, Elizabeth, N. J., assignors to Standard Oil Company, Bayonne, N. J., a Corporation of New Jersey. Filed Oct. 22, 1920. Serial No. 418,831. 15 Claims. (Cl. 123—180.)

1. The combination with an internal combustion engine, intake manifold, carbureter and throttle, of a priming device comprising an auxiliary fuel reservoir containing fuel, a mixture passage connected at one end to the manifold and having its other end provided with an air inlet and a fuel jet receiving fuel from the reservoir, and manually operated means for completely closing off flow through the mixture passage below the fuel jet.

1,394,912. MOTOR-CONTROL SYSTEM. Bowen H. McLaren, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 14, 1921. Serial No. 469,592. 6 Claims. (Cl. 172—179.)



1. The combination with a main electric motor, of means for controlling the same comprising a normally applied brake, a motor for relieving the brake, and means whereby the said motor is energized to deliver a torque which decreases as the main motor speeds up.

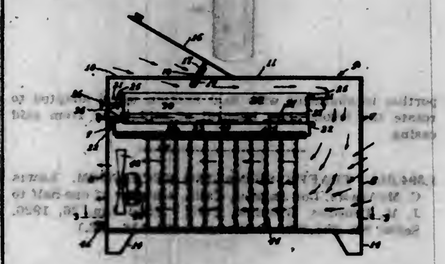
1,394,923. SHEET-METAL BARREL. James W. McNeil, Newark, N. J. Filed June 4, 1920. Serial No. 386,564. 9 Claims. (Cl. 220—72.)



1. A sheet metal barrel comprising a bilged body having smooth non-ribbed chimes split longitudinally of the barrel at intervals and longitudinally extending double-walled ribs between the chimes projecting radially into the interior of the body and terminating at the inner ends of the lines of division in the split chimes, the walls of each rib being of uniform width from end to end and being divided along their inner edges at each end of the rib and integral with each other along the inner edge of the central portion of the rib, the inner edges of the abutting divided portions of the walls of each rib being provided with relatively staggered tongues and the tongues on each wall being bent laterally around the abutting wall.

9. A sheet-metal barrel comprising a bilged body having chimes split longitudinally of the body at intervals, portions of the body being folded to provide longitudinally-extending double-walled ribs between the chimes projecting radially inwardly from the body-wall, the inner edges of the walls of said ribs being substantially parallel with the bilged body from end to end, and said inner edges of the walls of each rib being in equal along the central portion of the rib and divided from each other throughout the remaining end-portions of the rib, means being provided for clamping together the aforesaid divided walls of the ribs.

1,394,924. PORTABLE AIR COOLER, MOISTENER, AND PURIFIER. Bernard Macfadden, New York, N. Y. Filed Dec. 2, 1919. Serial No. 341,998. 2 Claims. (Cl. 62—138.)



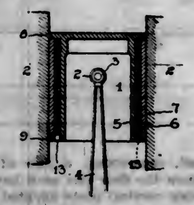
2. In combination, a cabinet having an inlet opening in its rear end wall, and a discharge opening in the front wall; an ice box in the upper part of the cabinet; a distributing pan beneath said box and provided with distributing holes in its floor and adapted to receive water from said box; a retarding felt pad lying on the floor of the pan; a supporting pad secured against the lower face of the floor of the pan; stitches passing through said holes and said pads and supporting the supporting pad; curtains supported by said pad; and means adapted to draw air across said curtains and discharge it through said discharge opening.

1,394,925. EXPANSION-SHIELD. Ernest W. Marshall, Yonkers, N. Y., assignor to J. Edward Ogden, Mountainville, N. Y. Filed Aug. 15, 1919. Serial No. 317,726. 15 Claims. (Cl. 85—2.4.)



1. An expansion shield comprising a tubular member having between its ends a plurality of spaced straight parallel strips inclined to the axis of the tube.

1,394,926. PISTON. Alfred N. Martin, New Dorp, N. Y. Filed Aug. 22, 1919. Serial No. 319,171. 2 Claims. (Cl. 74—108.)



1. The combination, with a trunk piston, of annular flanges extending respectively from its upper and lower ends, and packing comprising a number of spring-like divided metallic sleeves, in engagement relation around the piston to exert inherent radial tension therefrom, said sleeves including substantially the entire length of said piston, and being restrained by said flanges from vertical movement relatively to said piston, the lower flange having vertical apertures therethrough for the passage of lubricant to said sleeves.

1,394,927. STEEL FOR SHARPENING CUTLERY. Ernest C. Martin, Antrim, N. H. Filed Mar. 2, 1920. Serial No. 362,768. 1 Claim. (Cl. 76—84.)



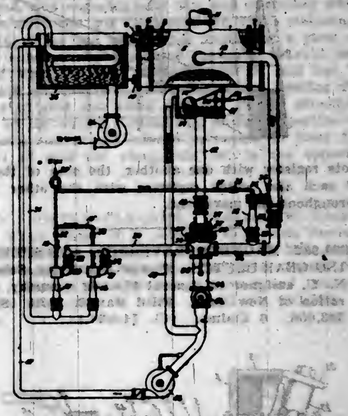
A steel for sharpening cutlery having a knurled sharpening surface provided with grooves which extend longitudinally thereof and are separated to provide knurled surfaces of substantial width between the grooves on which a knife may be sharpened, the edges of the grooves constituting sharpening edges which have a greater abrasive action than said knurled surfaces between the grooves.

1,394,928. TREATMENT OF RUBBER ARTICLES. Thomas Midgley, Hampden, and Ralph B. Naylor, Springfield, Mass., assignors to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Oct. 21, 1920. Serial No. 418,520. 12 Claims. (Cl. 18—53.)



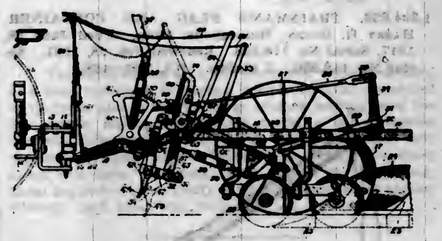
1. The method of treating a tire casing comprising assembling the carcass and tread portions thereof, applying heat regionally to the assembled casing in such a manner as to augment the difference between the resistances to flow of the tread and the carcass whereby the tread is enabled to conform to a molding pressure when applied without displacing the carcass, and then applying molding pressure to the casing and vulcanizing it.

1,394,929. CONDENSER APPARATUS. Samuel A. Moss, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Oct. 8, 1919. Serial No. 329,379. 7 Claims. (Cl. 257—24.)



1. In combination, a condenser, a multi-stage ejector pump connected therewith, an intercooler for said pump, said intercooler being located below said condenser, a conduit for conveying condensate from said condenser to said intercooler, said conduit being of such length that liquid will flow by gravity from the condenser through the intercooler, and automatic means for supplying liquid to said intercooler in case the condensate supply is insufficient.

1,394,930. POWER-OPERATED PLOW. Carl W. Mott, Chicago, Ill., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Nov. 6, 1916. Serial No. 129,810. 15 Claims. (Cl. 97—59.)

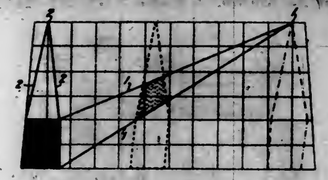


1. In combination, a frame, a ground wheel vertically adjustable with respect thereto, a lift operating device carried by the frame and adapted to be thrown into engagement with the ground during travel and means for lowering the ground wheel through the action of said device when engaged with the ground.

1,394,931. VALVE. William Edgar Muntz, London, England. Filed May 8, 1919. Serial No. 296,743. 6 Claims. (Cl. 251—92.)

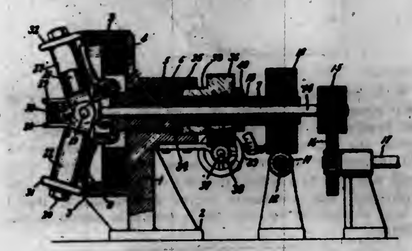
1. In a device of the character described, the combination of two members, means for holding the two members in fluid tight contact, and means for moving one member relatively to the other, each member having in it a slot that tapers to a point, the center lines of the two slots

being inclined to one another and the slots being so arranged that, as the one member is moved relatively to the other from the position in which the points of the two



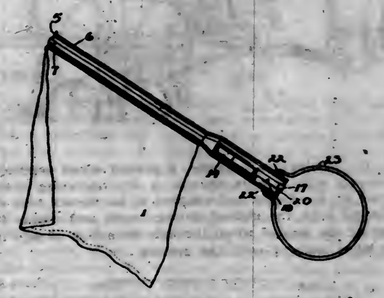
slots register with one another, the area of the portion of each slot which registers with the other increases throughout the movement.

1,394,932. MAGNETIC REVERSING AND SPEED-VARYING GEAR CLUTCH. EDWIN J. MURPHY, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 3, 1920. Serial No. 363,056. 6 Claims. (Cl. 74—34.)



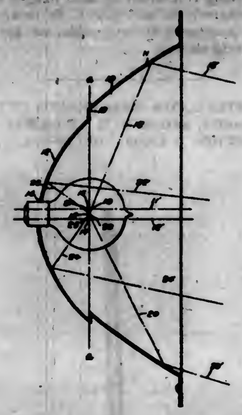
1. The combination of a magnetic annular toroid and a driven shaft connected therewith, of a driving shaft and a system of magnetic rollers carried by the same, and an electromagnet coil in position to magnetically clutch the rollers to the toroid.

1,394,933. TRAINMAN'S FLAG AND CONTAINER. HARRY H. OLSEN, Minneapolis, Minn. Filed June 18, 1917, Serial No. 176,638. Renewed Feb. 28, 1921. Serial No. 448,336. 3 Claims. (Cl. 246—488.)



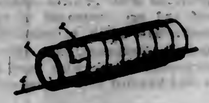
1. A container having a compartment for fusees, a compartment for signal torpedoes concentric therewith and carried thereby, a closure for the inner end of said fuse compartment closing also said signal torpedo compartment, forming on one side of said closure an annular space for matches and on the other side a chamber for signal torpedoes.

1,394,934. HEADLIGHT-REFLECTOR. JAMES A. O'NEIL, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Dec. 30, 1920. Serial No. 434,101. 4 Claims. (Cl. 240—41.)



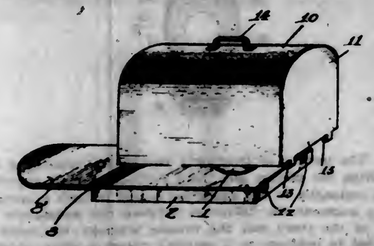
1. A reflector comprising a parabolic reflecting surface cut into two parts on a line perpendicular to its axis through its focus, and the cut parts relatively displaced with their axes parallel, in combination with a source of light located substantially in the focal plane and between the axes of said parts.

1,394,935. METHOD OF MAKING TUBES. ROBERT PALMER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 5, 1920. Serial No. 349,605. 2 Claims. (Cl. 113—112.)



1. The process of making tubes of ferrous metal which consists in shaping sheet metal into tubular form with the edges thereof making a butt contact, holding said metal in this form by a refractory bonding material not wetted by molten copper, and uniting the abutting edges by molten copper in a reducing atmosphere.

1,394,936. HAND PORTABLE SEWING-MACHINE. MAUD PRATT, Chicago, Ill. Filed Dec. 17, 1920. Serial No. 431,254. 8 Claims. (Cl. 45—120.)



5. In the herein described improvements in hand portable sewing machines embodying therein a base having a sewing machine head thereon, a two part cover for said head and connecting parts, one part being a combined drop leaf and cover end being hinged to the base and being swingable to a horizontal position to form an extension of the base and being swingable to a vertical position to coact and form an end closure wall for the other cover part, and means for detachably connecting said other cover part to the base and detachable coupling means between said other cover part and the drop leaf.

1,394,937. RESISTANCE UNIT. LUDWIG EMCHOLD, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Mar. 28, 1919. Serial No. 285,743. 13 Claims. (Cl. 219—66.)



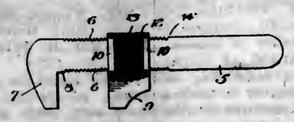
1. The method of making electric heating units which consists in mounting a helical resistance conductor on a support, inclosing the same in a metallic tube, filling the tube with powdered insulating material and then compacting the insulating material by reducing the diameter of the tube.

1,394,938. METHOD OF MANUFACTURING SHOES AND A SHOE MADE BY SUCH METHOD. IGNAS RICKEY, Rochester, N. Y. Filed Nov. 13, 1920. Serial No. 423,959. 5 Claims. (Cl. 36—17.)



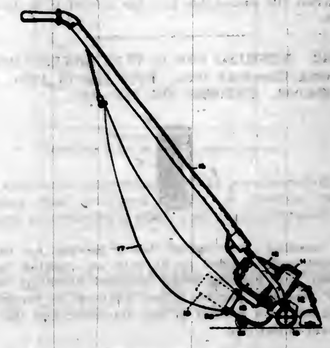
2. A shoe comprising an upper having an inturned edge the extremity of which is projected in a plane substantially parallel with the plane of the inner sole, a welt stitched to the under side of the inturned edge with its inner edge projecting in a plane substantially parallel with the inturned edge and the inner sole, an inner sole having its entire under face arranged above and unsecured to the inturned edge, securing means for the inner sole projecting from said inner sole, extending around the adjacent edges of the upper and welt and adhesively secured to the under face of the welt, and an outer sole secured to the welt against such securing means on the inner sole.

1,394,939. WRENCH. HENRY T. ROBERTS, New York, N. Y. Original application filed May 21, 1919, Serial No. 298,612. Divided and this application filed Feb. 7, 1920. Serial No. 357,050. 1 Claim. (Cl. 81—161.)



A wrench formed of a flat bar of metal with a thread cut on one end at opposite edges, the end thereof opposite that containing said threads forming a handle-portion presenting a stop-surface at the end of said thread, a jaw surrounding said bar and shiftable thereon lengthwise of the latter and held against rotation thereon by engagement with said bar, a nut surrounding said bar and engaging said thread, and engaging said jaw and operating when rotated to shift said jaw along said bar, and a stationary jaw on the other end of said bar formed of a piece of metal of substantially the same thickness as said bar, connected with the outer threaded end of said bar to oppose said movable jaw, said stop-surface limiting the movement of said nut along said bar in one direction, the part of the wrench beyond said threaded portion at the opposite end of the wrench operating to limit the movement of said nut along said bar in the opposite direction.

1,394,940. SUCTION-CLEANER. WILLIAM W. ROSENFIELD, White Plains, N. Y., assignor to Electric Vacuum Cleaner Company, Inc., a Corporation of New York. Original application filed May 24, 1915, Serial No. 29,968. Patent No. 1,348,582. Divided and this application filed June 25, 1920. Serial No. 391,778. 4 Claims. (Cl. 183—36.)



1. The combination in a self-contained suction cleaner, of a dust receptacle of porous, flexible material connected at its lower end to the discharge conduit leading from the fan casing, and a flexible and normally non-collapsing discharge tube extending from the discharge conduit into the dust receptacle so as to leave a space for dirt to collect about said tube, said tube being formed of flexible material supported by an easily flexible metallic spring means, whereby said tube will bend without collapsing.

1,394,941. FARE-COLLECTING BOX. ALBERT RUEBSAMEN and WALTER L. DENNIS, Decatur, Ill., assignors to Albert Ruebsamen, Walter L. Dennis, and Moses W. Randolph, a Copartnership doing business under the name of The R. D. R. Manufacturing Co., Decatur, Ill. Filed Mar. 13, 1919. Serial No. 282,807. 15 Claims. (Cl. 232—15.)

1. A mechanism of the character described, including in combination, a main casing or body having a hopper and provided with an opening leading into an interemdiate part, a tilting lid or tray for opening and closing said opening, an article-receiving till adapted to be inserted in said main body or casing below said intermediate portion thereof, said till having a sliding cover and means for locking said cover in its closed position when the till is outside of the casing; a key insertible in the casing

to slide the lid or cover to open position, after the slit is within the casing, and means to automatically lock the



cover when the removable key has moved it to full open position.

1,394,942. BUSHING FOR OUTLET-BOXES. PETER E. C. SATER, Cleveland, Ohio. Filed Aug. 16, 1920. Serial No. 404,006. 3 Claims. (Cl. 247—25.)



1. A bushing for outlet boxes having an exterior shouldered end adapted to fit into an opening in said outlet box, said bushing being threaded internally, said internally threaded portion being adapted to receive the threaded end of a conduit of less diameter than the opening in said outlet box.

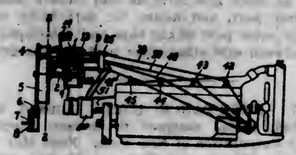
1,394,943. HAIR-DRESSING APPLIANCE. RUTH S. M. SCHROEDER, Chicago, Ill. Filed May 31, 1921. Serial No. 473,579. 3 Claims. (Cl. 132—33.)



1. In a device of the class described, the combination with an expansible and contractible spring loop, of a pair of arms or levers normally in angular relation to each other which when brought together expand said loop, and means for holding together said arms or levers.

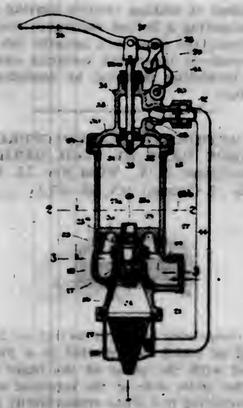
1,394,944. AUXILIARY IGNITION SYSTEM FOR GAS-ENGINES. RICHARD R. SHAW, Fresno, Calif. Filed Dec. 1, 1919. Serial No. 341,836. 2 Claims. (Cl. 123—148.)

1. An auxiliary ignition system for gas engines including a shaft, a spring for rotating said shaft, a plurality of gears on said shaft, a second shaft, a plurality of gears on said second shaft, means for causing the gears



on the second shaft to mesh respectively with companion gears on said first shaft and a distributer on said second shaft.

1,394,945. FLUSH-VALVE. GEORGE DOUGHMAN SHOWERS, Altoona, Pa. Filed July 6, 1920. Serial No. 394,147. 8 Claims. (Cl. 137—93.)

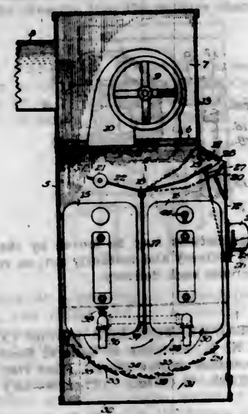


2. A flush valve comprising, a cylinder having an inlet port and two communicating outlet ports, a manually operable valve controlling one of the outlet ports, a piston within the cylinder having a port therein, a gravity valve having a port therein, said gravity valve being within the piston and controlling the piston port, a valve carried by the first valve and controlling said gravity valve port, and an outlet valve carried by the piston and controlling the other of said outlet ports.

1,394,946. VENTILATING UNIT. WILFRED SHURTLEFF, Moline, Ill., assignor to Moline Heat, Moline, Ill., a Corporation of Illinois. Filed Mar. 10, 1919. Serial No. 281,800. 3 Claims. (Cl. 257—137.)

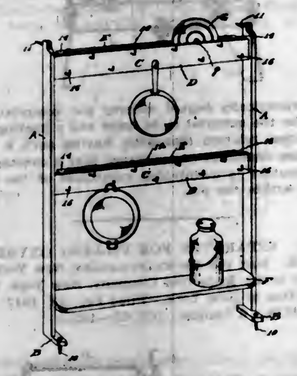
2. In a ventilating unit of the class described the combination of a housing having an air inlet and an outlet, a partition dividing the housing below said outlet into rear and front passageways connected at their lower ends, a radiator structure in each passageway, said radiator structures being connected serially for the flow of

steam therethrough, a damper hinged at the upper end of said partition and adapted to swing in said outlet to



control the connection of said outlet with said front passageway and with said air inlet.

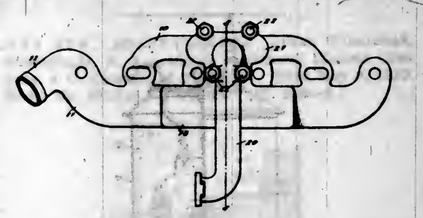
1,394,947. PAN-RACK. JULIUS SINGER, New York, N. Y. Filed Nov. 24, 1919. Serial No. 340,300. 2 Claims. (Cl. 65—65.)



1. A rack comprising a pair of uprights, and a plurality of transverse slats for spacing the uprights apart; each transverse slat consisting of a face portion and a rear portion, the ends of the face portion being separably secured to the inner sides of the uprights; the rear portion of each slat having forwardly projecting ends located between the uprights and bearing against and secured to the rear surface of the face portion for providing space between the rear surface of the face portion and the front surface of the rear portion for supporting non-suspendible utensils therein.

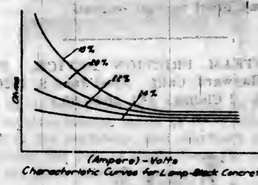
1,394,948. CARBURETED-FUEL SEPARATOR AND FUEL-VAPORIZER. CARLISLE FORREST SMITH, Kokomo, Ind. Filed Nov. 20, 1919. Serial No. 339,382. 4 Claims. (Cl. 123—122.)

1. A manifold having an intake opening, a baffle opposite the intake opening, means forming a vaporizing well below and into which the baffle drains, provided with an exhaust heated wall, a fuel feed pipe attached to the manifold and a fuel intake tube extending from



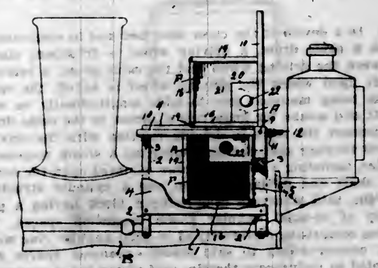
the adjacent end of the pipe and projecting into the intake opening of the manifold toward and at right angles to the said baffle.

1,394,949. RESISTANCE MATERIAL. RALPH W. STEARNS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 19, 1920. Serial No. 359,953. 4 Claims. (Cl. 219—76.)



1. A resistance material comprising a substantially non-conducting base composed mainly of concrete and an admixture of a relatively small amount of lampblack.

1,394,950. SIGNAL APPARATUS. ROBERT P. STEPHENS, Raton, N. Mex. Filed Mar. 26, 1921. Serial No. 455,799. 5 Claims. (Cl. 116—30).

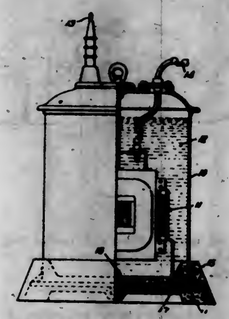


1. A signal apparatus of the class described comprising a member provided with a socket, a staff supported by said member for both swinging and endwise movement, said staff having an extension seating within the socket when the staff is in one position, a flag carried by the staff, and an illuminated signal carried by the staff and exposed through the flag.

1,394,951. ELECTRICAL APPARATUS. NOBUCHIKA SUGIMURA, Tokyo, Japan, assignor to General Electric Company, a Corporation of New York. Filed June 5, 1919. Serial No. 301,959. 2 Claims. (Cl. 72—14.)

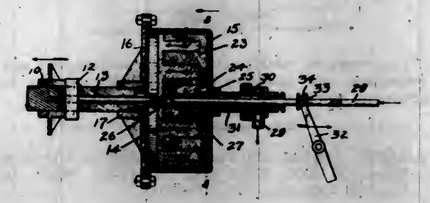
2. In a casing for liquid submerged electrical apparatus, the combination with a trunk constructed of sheet metal,

of a plastic base formed to engage with a rim of said trunk, reinforcing material embodied in said base, and a



liquid tight surface material intimately associated with said plastic for making its interior surface and the rim about said tank proof against osmosis.

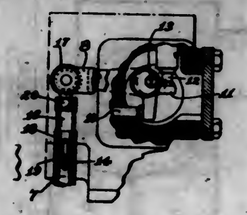
1,394,952. STEAM FRICTION DEVICE. FRANK T. SWANSON, Hayward, Calif. Filed June 8, 1920. Serial No. 387,498. 2 Claims. (Cl. 192—85.)



1. In a device of the class described and in combination with a cable drum, a driving wheel, a frictional clutch between the driving wheel and the cable drum, a rotating shaft upon which the driving wheel is keyed, the cable drum being mounted free to slide longitudinally on said shaft and means for imparting a thrust to the cable drum to connect the same in driving relation with the driving wheel through said clutch, comprising a steam responsive device, including a steam chamber mounted upon the rotating shaft and having a piston and a cylinder structure therein, said structure comprising a block having a plurality of co-axial annular steam expansion spaces, the piston comprising a plurality of co-axial annular ring members corresponding to said steam expansion spaces and adapted to reciprocate therein, said piston being connected to said cable drum, and means for progressively introducing steam to said steam expansion spaces to actuate said piston.

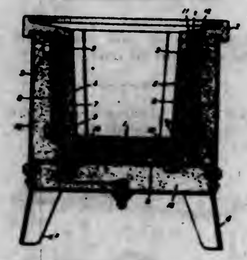
1,394,953. GOVERNOR-CONTROLLED COMBUSTION-ENGINE. ADOLF TACCHELLA, St. Louis, Mo., assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed Oct. 5, 1917. Serial No. 194,910. 1 Claim. (Cl. 123—140.)

In a governor controlled internal combustion engine of the fuel-injected class, means connecting the governor to the fuel injecting means to vary the fuel delivery, comprising two relatively movable telescopic parts, and a spring housed therein and normally holding said parts in a non-changing relation for positively transmitting the governor motion to said means, said spring being arranged to urge said parts in the direction to decrease the fuel delivery,



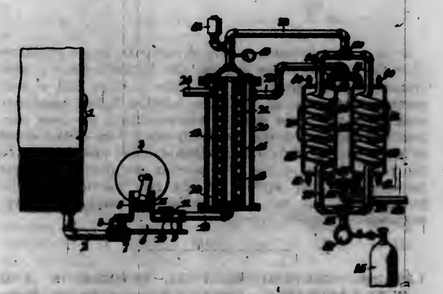
whereby said connections may be moved by the hand to increase the fuel delivery and instantly act, on removal of the hand, to decrease such delivery.

1,394,954. METAL-MELTING POT. TYCHO VAN ALLEN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 4, 1919. Serial No. 342,825. 5 Claims. (Cl. 219—43.)



1. An electrically heated melting pot, comprising a receptacle for the material to be fused and a heating unit in good thermal relation therewith, having such a positive temperature coefficient of resistance that a constant working temperature is maintained regardless of the working condition within the pot.

1,394,955. APPARATUS FOR FILLING OXYGEN-CYLINDERS. MAX VON RECKLINGHAUSEN, New York, N. Y., assignor to Air Reduction Company, New York, N. Y., a Corporation of New York. Filed Feb. 23, 1917. Serial No. 150,319. 6 Claims. (Cl. 62—122.)



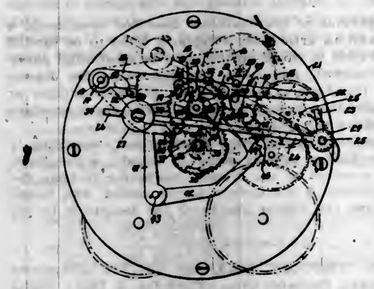
1. In an apparatus of the character described, the combination of heat interchanging means having separate passages for liquefied gases and the evaporation products thereof and for the circulation of the heating agent, controllable means for restricting the discharge of said evaporation products whereby pressure developed by evaporation is maintained, and means for positively forcing liquefied gases under pressure into the passage therefor.

1,394,956. TANK-CAR. ROBERT R. WEAVER, Chicago, Ill., assignor to General American Tank Car Corporation, Chicago, Ill., a Corporation of West Virginia. Filed July 1, 1921. Serial No. 481,744. 6 Claims. (Cl. 105—362.)



1. A tank-car comprising an under-frame, a tank surmounting said frame, and an anchorage for preventing lengthwise movement of said tank and under-frame relative to each other at one portion of the tank formed of a seating member having depending flanges at the opposite sides of the center of the tank, the lower edges of said flanges being spaced from the structure beneath them, flanged members on the tank the flanges of which extend downwardly at the outer sides of the flanges on said seating member and means connecting adjacent ones of said flanges together, said tank bearing directly on said seating member between said flanged member.

1,394,957. SHIP'S-BELLS CLOCK. FRANK X. WEHRLE, Thomaston, Conn., assignor to The Seth Thomas Clock Co., Thomaston, Conn., a Corporation. Filed May 4, 1921. Serial No. 466,777. 3 Claims. (Cl. 58—8.)

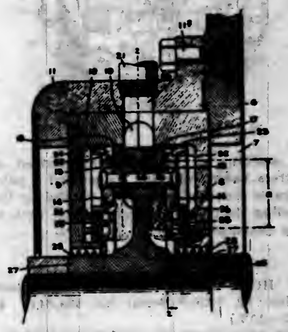


1. A rack-and-snail ship's bells clock in which the bells are struck in pairs, having a rack-lever, a substantially horizontal ship's bells-lever pivotally mounted between its ends thereupon in line therewith, a hammer controlled by the ship's bells-lever, and a ship's bells-cam timed and arranged to nullify one stroke of the hammer at the half hours.

1,394,958. CONCENTRATION OF ORES AND THE LIKE. ALFRED SCHWARZ, Joplin, Mo., assignor to Metals Recovery Company, New York, N. Y., a Corporation of Maine. Filed Mar. 6, 1917, Serial No. 152,585. Renewed May 6, 1921. Serial No. 467,318. 8 Claims. (Cl. 82—85.)

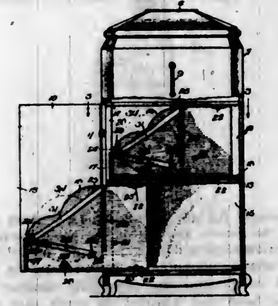
1. The method of concentrating ores by the action of selective agents and by flotation which comprises disintegrating by extraction selective agent substances containing soluble and insoluble constituents, separating such soluble constituents from the insoluble constituents, adding predetermined proportions, differing from the original of such soluble constituents and the insoluble constituents to the ore to be concentrated, and then subjecting the ore to a flotation operation; substantially as described.

1,394,959. SHAFT-PACKING. JAMES WILKINSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 9, 1919. Serial No. 295,980. 6 Claims. (Cl. 286—9.)



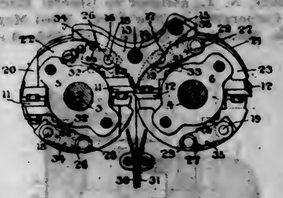
5. In a liquid seal packing, a housing, an impeller therein which receives sealing liquid at its central portion and delivers it at the periphery, and labyrinth packing means which impedes the flow of liquid from the exit of the impeller to the inlet thereof.

1,394,960. PHONOGRAPH-CABINET. JOHN BACHAR, Chicago, Ill. Filed Apr. 10, 1920, Serial No. 372,852. Renewed June 23, 1921. Serial No. 479,963. 2 Claims. (Cl. 211—16.)



1. A cabinet comprising a casing, said casing having a chamber for phonographic records, and a drawer slidably disposed within the chamber, said drawer consisting of parallel side walls and a front wall, said front wall having a height less than that of the side walls, a cross bar disposed between the top edges of said side walls intermediate their length, a depending panel secured at its upper edge to said cross bar and disposed parallel with the front wall, and a plurality of diagonal strip partitions disposed between said cross bar and the front wall of said drawer to provide individual compartments adapted to receive disk records.

1,394,961. WEB-GUIDE FOR ROTARY CUTTERS. Howard M. Hanna, Stockton, Conn., assignor to C. H. Cottrell & Sons Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 22, 1919. Serial No. 291,938. 9 Claims. (Cl. 164—61.)



1. In a machine of the character described, a pair of rotary cutters having coacting knives and a pair of relatively movable coacting web guides carried by the cutters for controlling the leading end of the web, each web guide comprising slitted sections.

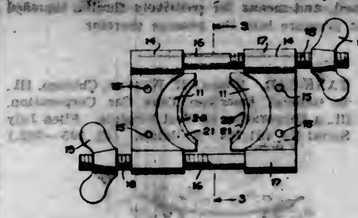
1,394,962. HOOD-CLAMP. John W. Barr, Racine, Wis. Filed Mar. 10, 1920. Serial No. 364,641. 4 Claims. (Cl. 292—113.)



2. In a clamp for automobile hoods, a fixed clamping element on the chassis and within the hood, having an angular projection sloping downwardly and toward the hood, a reversely sloping clamping element carried by the hood and means comprising an operating member passing through the hood and adapted to lower said reversely sloping clamping element so as to place it under the fixed clamping element when the hood is lowered and to raise said reversely sloping clamping element to lock said hood.

1,394,963. GEAR-PULLER ATTACHMENT. Charles P. Beach, Littleton, N. H. Filed Aug. 21, 1919. Serial No. 318,900. 2 Claims. (Cl. 29—96.)

1. A gear puller attachment comprising a pair of opposed plates each having a concave front edge and each provided at said front edge with a bevel on the upper side thereof, a pair of blocks each provided with a recess on the lower face thereof to receive one of said plates, means holding each plate to the corresponding block, a screw threaded rod projecting from one end of each block through the plate block, said rods carried by said rods and



coöperating therewith to cause relative approachment of said blocks.

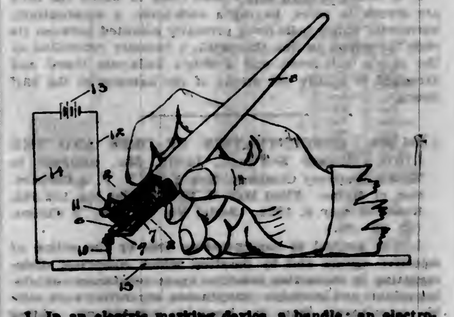
1,394,964. CABINET FOR TALKING-MACHINE RECORDS. Edward Blaise, Brooklyn, N. Y. Filed Sept. 18, 1919. Serial No. 324,422. 11 Claims. (Cl. 48—96.)



1. Apparatus of the character described comprising, a drawer and an articulated receptacle fitted to be carried by the drawer in closed position and in substantial parallelism therewith, and to be also carried by the drawer pendant therefrom in open position and substantially at right angles thereto, said receptacle having its upper edges connected to the drawer.

7. Apparatus of the character described comprising, a casing, a drawer slidably mounted therein, a receptacle slidably mounted in the drawer, means for limiting the sliding motion of the drawer in the casing, and means for limiting the sliding motion of the receptacle in the drawer.

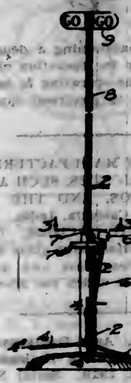
1,394,965. ELECTRIC MARKING DEVICE. Clifford A. Bourne, Portland, Oreg. Filed Jan. 5, 1921. Serial No. 435,056. 3 Claims. (Cl. 175—265.)



1. In an electric marking device, a handle; an electromagnet mounted within said handle and having a core

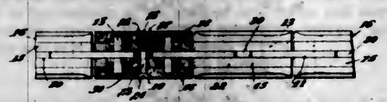
projecting from one end of said handle, the projecting end of said core being beveled; a vibrating member mounted to said handle, a portion thereof being disposed adjacent said magnet core and parallel to the bevel surface thereof; and a contact point secured to said vibrating member.

1,394,966. STREET-TRAFFIC-DIRECTION-SIGNALING DEVICE. Joseph W. Bernkrer, San Diego, Calif. Filed Mar. 27, 1920. Serial No. 369,218. 3 Claims. (Cl. 116—63.)



1. A street crossing traffic direction signal, including a base member, a staff revolubly mounted thereon, provided with a laterally extending side portion, an over center weighted arm pivotally mounted on said base member adapted to engage said side portion, operated by the traffic officer for revolving said staff, means for stopping its revolution at a certain pre-determined point and a traffic signal member secured on the upper end of said staff.

1,394,967. DRIVING-BELT. Ralph P. Champney, Worcester, Mass., assignor to Mitchell and Smith, Incorporated, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 2, 1920. Serial No. 407,735. 3 Claims. (Cl. 74—64.)



1. A link belt comprising a series of metal connector links each having metal pivot pins at its opposite ends, friction links alternately connected therewith, and each having oppositely disposed plates faced with friction material, and apertures lined with non-metallic bushings adapted to receive the pivot pins, spacer members located between the ends of the metal connector links, and a fastener member extending through the spacer and metal plates and adapted to retain the friction links and the metal connector links in assembled position.

1,394,968. DISCONNECTING-SWITCH. Christen Christensen, Chicago, Ill., assignor to Electrical Engineers Equipment Co., Chicago, Ill., a Corporation of Illinois. Filed June 4, 1919. Serial No. 301,718. 28 Claims. (Cl. 200—48.)

12. In combination, a movable switch member, a contact terminal for said member, a pivoted operating lever for actuating said switch member, said operating lever being movable into or over its dead center positions for automatically locking said lever and said switch member against accidental opening or closing of said switch member.



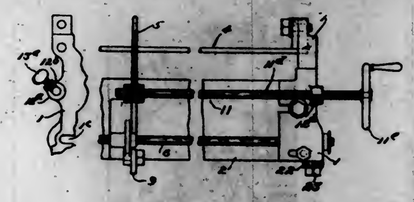
24. In an electrical switch, the combination of a contact terminal, a movable switch element coöperating therewith, and switch operating mechanism comprising means exerting a relatively large force upon said movable switch element during the initial part of this motion, and a relatively large velocity during the remaining part of its motion, said switch operating mechanism imparting a high velocity motion to said movable switch element through a radius arm of increasing radius.

1,394,969. STEAM-BOILER. James M. Colvin, Yonkers, N. Y., assignor to New York Engineering Company, a Corporation of New York. Filed June 26, 1918. Serial No. 241,918. 3 Claims. (Cl. 110—98.)



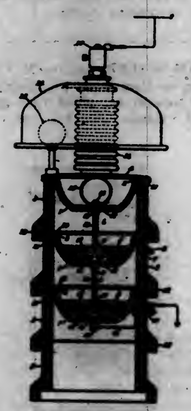
2. In combination with a boiler having upper and lower drums and having a bank of tubes connecting said drums, baffling means extending from the upper toward the lower drum comprising a plurality of baffles adjacent a row of tubes and independently slidable transversely of the tubes, said baffles having rows of perforations spaced so as to register with the tubes when the respective baffles are in one position and to register with the spaces between the tubes when the respective baffles are in another position.

1,394,970. WARP STOP-MOTION FOR LOOMS. ARTHUR S. COWAN, Boston, Mass., assignor, by mesne assignments, to The Stafford Company, Readville, Boston, Mass., a Corporation of Massachusetts. Filed July 16, 1921. Serial No. 485,179. 9 Claims. (Cl. 139—62.)



1. In a warp-stop-motion mechanism for looms, the combination with one or more reciprocating feeler-rods, the back-stop-bars, and transversely-extending elements above said bars, of an intermediate bridge or brace comprising an upper section engaging and supported by the latter elements, and a lower section supported by said upper section, having recessed seats receiving the back-stop-bars, and having adjacent such seat surfaces which conjointly with the tops of the back-stop-bars constitute a race or guideway for the feeler-rod or rods.

1,394,971. PROTECTIVE DEVICE. ELMER E. F. CREIGHTON and FREDERICK R. SHAVER, Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York. Filed Jan. 10, 1918. Serial No. 211,113. 24 Claims. (Cl. 175—30.)



1. In a device of the class described, a container, a conducting fluid within the container, an electrode in series circuit relation with said fluid and means operative upon a discharge through said circuit and the occurrence of an arc between said electrode and fluid for directing said fluid away from said electrode.

1,394,972. ELECTRIC REGULATION. JOHN L. CHEVALIER, Auburn, N. Y. Filed Oct. 24, 1914. Serial No. 868,404. 10 Claims. (Cl. 171—229.)

1. Means for regulating an electric circuit comprehending in combination therewith, a regulating element the effect of which depends upon pressure applied thereto, means for applying said pressure at varying rates comprehending a toggle-joint, and electromagnetic means co-operating therewith for moving the knuckle of said joint com-

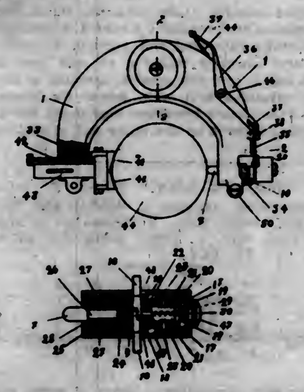


prehending means for maintaining a dense and confined magnetic field affected by the operation of the regulating means and movable means operating in said field and responding to fluctuations in electrical conditions of said circuit.

1,394,973. PROCESS OF MANUFACTURE OF A GLASS USING NATURAL SILICATES, SUCH AS MICACEOUS MINERALS, ASBESTOS, AND THE LIKE. PERCY BROADBENT CROSSLEY, Calcutta, India. Filed Sept. 27, 1919. Serial No. 326,917. 7 Claims. (Cl. 106—38.1.)

7. The method of manufacturing glass which comprises dissolving mica in molten glass and maintaining the temperature below that at which the mica effloresces.

1,394,974. LIMIT-GAGE. AXEL DANIELSSON, Gottenborg, Sweden, assignor to Nordiska Kullager Aktiebolaget, Sweden. Filed Dec. 5, 1919. Serial No. 342,798. 4 Claims. (Cl. 33—143.)

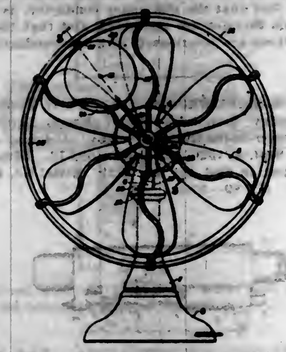


1. In a limit gage of the class specified, a body, an object contacting and supporting element on one end of the body, a longitudinally movable stud on the opposite end of the body for contacting with the object and two indicators pivotally and yieldably mounted rearwardly and centrally of the stud for coacting with the stud for indicating the size of the object to the gage.

1,394,975. OSCILLATING FAN. PHILIPPE DE CLAMECY, Boston, Mass., assignor to B. F. Sturtevant Company, Hyde Park, Mass., a Corporation of Massachusetts. Filed Mar. 9, 1920. Serial No. 364,422. 11 Claims. (Cl. 230—2.)

1. An oscillating fan having, in combination, a motor, a fan wheel, a support upon which the motor and fan wheel are arranged to oscillate, a current obstructing device adapted to be rotated about the axis of the fan wheel to cause the fan to oscillate alternately in opposite

directions as it rotates, a guard frame carried by the motor and inclosing the fan wheel, a track supported by the



guard frame, and a bearing member carried by the current obstructing device for engaging with the track as said device rotates.

1,394,976. ELECTRIC SWITCH. FRANK C. DE RAMER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 18, 1918. Serial No. 245,478. 4 Claims. (Cl. 200—67.)



1. A switch comprising, a base, stationary contacts thereon, a trough-shaped frame of sheet metal having apertures formed in its side members, an actuating rocker comprising a flat metal bar provided with side projections pivoted in said frame apertures, a U-shaped member pivoted to the exterior of the sides of said frame and below the rocker pivots, and a spring connection between said rocker and said U-shaped member.

1,394,977. BADGE. CHARLES J. DIEGES, New York, N. Y., assignor to Dieges & Clust, New York, N. Y., a Corporation. Filed Aug. 1, 1921. Serial No. 488,998. 2 Claims. (Cl. 40—1.5.)



1. In combination of a badge, formed with a cross bar having overlapping flanges integral therewith, said cross bar, two serrated plates independent of each other and formed on one edge with saw teeth, said saw teeth being slightly bent and opposed to each other, said serrated plates held upon said cross bar and between the flanges formed thereon, the teeth formed on the edges of said serrated plates penetrating a ribbon held between them, for the purpose described.

1,394,978. PROCESS FOR RECOVERING POTASSIUM COMPOUNDS FROM BRINES CONTAINING THE SAME IN ASSOCIATION WITH OTHER CHEMICAL COMPOUNDS. CLINTON B. DOLBEAR, Los Angeles, Calif., assignor, by direct and mesne assignments, of three-fourths to David C. Norcross and one-fourth to John H. Miller and George J. Henry, San Francisco, Calif. Filed Mar. 10, 1919. Serial No. 281,650. 9 Claims. (Cl. 23—22.)

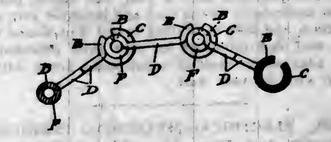
4. The process of recovering potassium salts from an alkaline solution containing potassium salts and carbonates or borates, or both by adding calcium sulfate.

1,394,979. LINK FOR CHAIN BELTS. RAYMOND W. DULL, La Grange, Ill., assignor to Link Belt Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 22, 1920. Serial No. 367,653. 9 Claims. (Cl. 74—43.)



7. An integral single thickness sheet metal chain link having two side bars and two ends, the pintle end having an external diameter approximately the same as the internal diameter of the hook end and consisting of the bent ends of the side bar and bent end bar and a projection therefrom which passes between said side bars.

1,394,980. LINK FOR CHAIN BELTS. RAYMOND W. DULL, La Grange, Ill., assignor to Link Belt Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 22, 1920. Serial No. 367,654. 12 Claims. (Cl. 74—43.)



10. An integral single thickness sheet metal chain link comprising two side and two end bars and two substantially tubular ends, the pintle end having an external diameter approximately the same as the internal diameter of the hook, the link adapted to be struck from an imperforate link blank, the pintle end being formed in part from an outward projection from one end of said blank.

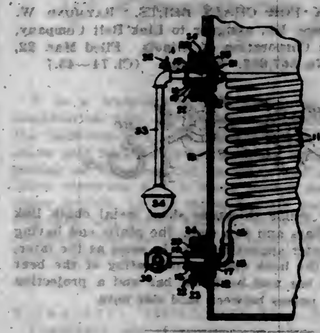
1,394,981. SECURITY BOX OR CASE. ROBERT HENDERSON DUNCAN, Epping, near Sydney, New South Wales, Australia. Filed Jan. 29, 1919. Serial No. 273,848. 3 Claims. (Cl. 217—56.)



1. In a guarantee case or box, case and lid attachment interlocking parts, coincidently arranged on the separable parts thereof; the lid part having transverse end pieces, angularly disposed corner clips clenched on the under surface of the lid for securing the end pieces, one such end piece—located adjacently to the lid locking attachment—having a cord secreting channel thereunder and which is continued downwardly to the sealing formation, a bolt, the lid having a channel for bolt stem to slide in, the end piece being cut away for said stem, a spindle, a gapped

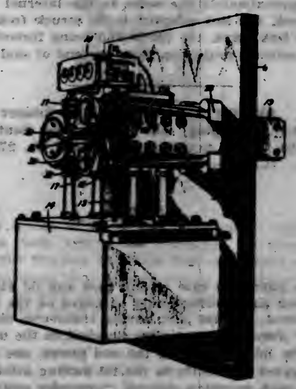
lever attached centrally to the spindle, the spindle located downwardly in the lid, a hook shaped contacting plate secured to underside of lid, a combined barrel and catch attached to spindle and operated by the said lever, grooved companion plates attached to underside of lid, and securing angle plates attached to the box parts contiguous thereto, and engaged by the companion plates.

1,394,982. CASING FOR ELECTRICAL APPARATUS. MATTHEW L. ELDER, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Aug. 25, 1919. Serial No. 319,694. 7 Claims. (Cl. 257—205.)



5. In casings for transformers and the like, the combination with a wall, of a cooling coil provided with end couplings adapted to protrude through said wall, an exterior portion of said coil being made the highest part thereof and provided with a vent, the lowest part also being on the exterior of the tank and provided with a combined drain and flow regulating device, and means for securing said end couplings to said tank provided with sleeves adapted for making independent joints with said coil and with the tank wall.

1,394,983. ELECTRICAL MEASURING INSTRUMENT. ALEXANDER J. R. FIGGO, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Nov. 24, 1920. Serial No. 426,144. 4 Claims. (Cl. 171—295.)



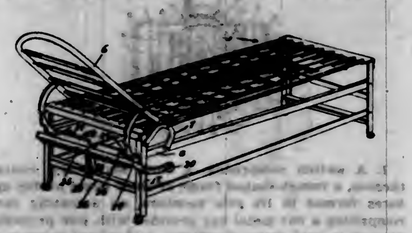
1. An electrical watthour meter of the commutator type, comprising a rotatably mounted potential coil, a stationary conductor disposed to carry a current proportional to that being metered, arranged to influence said rotatably mounted coil, and terminals for said conductor characterized by the fact that the stationary conductor, as well as the terminals therefor are laminated, and that the terminal laminations are interleaved with the conductor laminations.

1,394,984. BARREL-RECOIL GUN. FRITZ FINCKH, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Original application filed Sept. 4, 1920, Serial No. 408,876. Divided and this application filed Apr. 20, 1921. Serial No. 464,683. 2 Claims. (Cl. 89—37.)



1. A barrel recoil gun which comprises a gun barrel, a cradle therefor, a pair of trunnions carried by said cradle, said cradle being reversible to vary the distance between the trunnions and the breech end of the gun barrel.

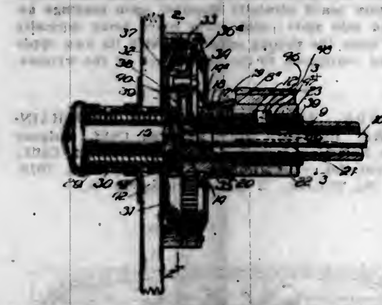
1,394,985. DAY-BED WITH ADJUSTABLE FOLDING HEADPIECE. JOSEPH R. FISCHER, Brooklyn, N. Y., assignor to Eureka Bedding Manufacturing Company, Brooklyn, N. Y., a Corporation of New York. Filed Dec. 22, 1920. Serial No. 432,496. 7 Claims. (Cl. 155—118.)



1. In combination, a bed frame comprising legs; a head piece pivotally movable on the frame; means pivotally attached to the head piece and movable by increments for changing the inclination of the head piece; a stop member attached to the legs at one end of the frame transversely of the frame and engageable with said means for retaining the head piece at a desired incline; and means pivotally attached to said legs adjacent to the stop member having ends for receiving pressure thereon; the last mentioned means being normally inoperative and being movable by pressure on the ends thereof for engagement with the first mentioned means for releasing the same from engagement with the stop member to permit said means to move for an increment, and upon relief of pressure on said ends permitting further movement of the first mentioned means for engagement thereof with the stop member for changing the inclination of the head piece.

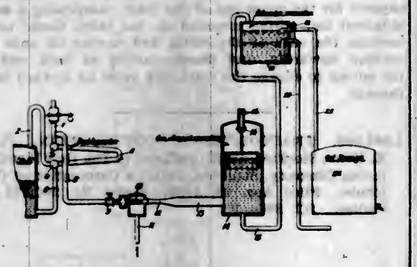
1,394,986. DRIVING MECHANISM. HARVEY L. FISHER, Chicago, Ill., assignor to The Donaldson & Fisher Company, Chicago, Ill., a Corporation of Arizona. Filed July 22, 1918. Serial No. 246,080. 5 Claims. (Cl. 74—7.)

1. In a device of the class described, an axle forging comprising a reduced wheel bearing, at one end, a tubular portion at the other end, a drive shaft and pinion within the tubular portion, a wheel journaled on the forging,



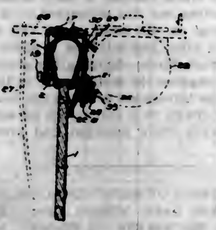
an internal gear carried by the wheel and an idler between the internal gear and the pinion.

1,394,987. APPARATUS FOR CONDENSING AND TREATING DISTILLATES. RICHARD FLEMING, Westfield, N. J., assignor to The Richard Fleming Company, a Corporation of Delaware. Original application filed Mar. 23, 1918, Serial No. 224,433. Divided and this application filed Dec. 6, 1919. Serial No. 343,051. 21 Claims. (Cl. 196—25.)



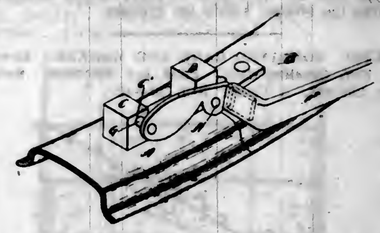
1. The combination with a pressure oil cracking still, of a vapor line for conducting the vapors away from the still, means in said line for discharging vapors at high velocity while maintaining the still pressure, and means for supplying condensing liquid in sufficient volume to envelop and condense the discharging expanding vapors.

1,394,988. BRACKET. WILLIAM MITCHEL FOLBERTH, Cleveland, Ohio. Filed Jan. 15, 1921. Serial No. 437,507. 6 Claims. (Cl. 248—20.)



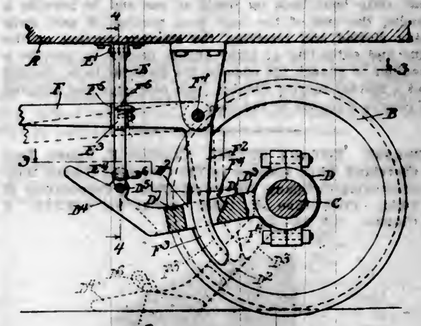
2. A bracket for windshield cleaners comprising a pair of angular plates, one portion of each of said plates being arranged upon the other and adjustably secured thereto, the other portions of the plates being spaced from each other and adapted to be arranged on opposite sides of a windshield frame, and means for securing a windshield cleaner to one of said members.

1,394,989. DEMOUNTABLE-RIM-OPERATING LEVER. EMORY M. FOSTER, Cleveland, Ohio, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 15, 1918. Serial No. 244,951. 3 Claims. (Cl. 157—1.)



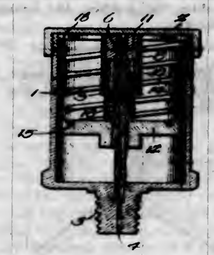
1. A device of the kind described comprising a head portion having a notch in one side thereof, and provided with spaced laterally projecting studs, and a handle detachably connected to said head portion.

1,394,990. CAR-BRAKE. FRELING C. FOSTER, Chicago, Ill. Filed Sept. 2, 1919. Serial No. 321,067. 3 Claims. (Cl. 188—41.)



1. A railroad vehicle brake comprising a brake member pivoted on the axle of a vehicle and adapted when in operative position to bear upon the rail beneath said vehicle, and additional pneumatic means for increasing the pressure of said brake member upon said road surface.

1,394,991. OILER. ROBERT FRICK, Chicago, Ill. Filed Jan. 3, 1921. Serial No. 434,600. 5 Claims. (Cl. 184—70.)



1. In an oiler for the bearings of variable speed objects, a reservoir having a head at the outer end, a dis-

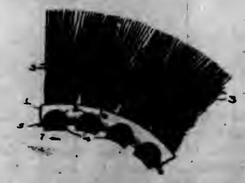
charge tube having an inlet slightly spaced from the head of the reservoir, a movable, open ended cylinder within the reservoir adapted to engage the head of the reservoir, for closing the open end of the cylinder, the inlet of the tube being within the cylinder, a plunger slidable within the cylinder for pumping oil into the tube when the cylinder is in contact with the head of the reservoir, and means subject to centrifugal action for moving the cylinder into contact with the reservoir head and reciprocating the plunger within the cylinder.

1,394,992. COMBINED GAGE AND MARKER. EDWIN B. FRY, Oroville, Calif. Filed Apr. 26, 1919. Serial No. 292,888. 1 Claim. (Cl. 33—42.)



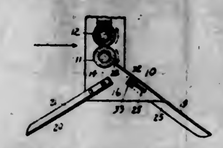
A device of the character described comprising a straight gage strip bent back on itself at one end to provide a handle, the end of the bent back portion of said strip being slotted and receiving the straight portion of the gage and extending at right angles thereto to provide a shoulder to engage the edge of the material to be marked and a marker carrier slidable upon said gage and adapted to receive a crayon or the like.

1,394,993. ROTARY BRUSH. CLINTON E. FROST, East Cleveland, Ohio, assignor to The Cleveland Osborn Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 22, 1918. Serial No. 241,372. 3 Claims. (Cl. 15—37.)



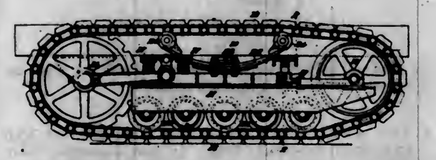
1. A circular brush unit, comprising an annular base ring, a series of sections of brush material looped over said ring, a clamping member comprising an apertured base for holding said loops firmly upon said ring and spaced parallel sides for holding the brush sections in radial relation thereto.

1,394,994. DRAIN-BOARD. HANS HANSEN, Kansas City, Mo. Filed May 19, 1921. Serial No. 470,897. 2 Claims. (Cl. 68—32.)



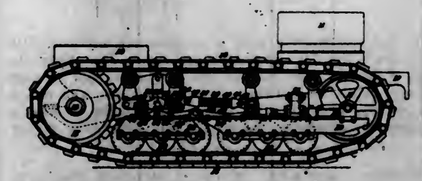
1. In a wringer, side housing members and wringer rolls in operative arrangement therein, each side housing member having an extended base portion provided with a slot therein and a downwardly sloping upper edge thereon; a drain board pivotally mounted upon bearings arranged in said slots; said drain board being normally disposed upon the sloping edges and with its own upper edge lying contiguous to the bottom roll of the wringer.

1,394,995. UPPER-RUN SUPPORT FOR CHAIN-TRACKS. BENJAMIN HOLT, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Sept. 16, 1919. Serial No. 324,152. 2 Claims. (Cl. 305—9.)



1. In a tractor truck mechanism of the self-laying track type, a truck frame, a pair of sprocket wheels, an endless chain track carried by the sprocket wheels, and a support for the upper run of the track, comprising a semi-elliptical leaf spring mounted on the truck frame intermediate the ends of the latter and having its ends extending upwardly, and means carried at each end of the spring to engage the track and exert an upward force thereon.

1,394,996. TRACTOR-TRUCK CONSTRUCTION. PLINY E. HOLT, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Apr. 16, 1919. Serial No. 290,431. 7 Claims. (Cl. 305—9.)



3. In a chain track tractor, a main frame, an endless flexible track having one end supported on a track driving sprocket journaled on the main frame and the other end supported on an idler journaled on a roller truck frame, rollers on the truck frame engaging the ground run of the track, means to support the main frame on the roller truck frame, and means interposed between the main frame and the roller truck frame in a manner to permit the idler to approach the track drive sprocket and produce slack in the track.

1,394,997. METHOD OF ERECTING CONCRETE STRUCTURES. SIMON LAKE, Milford, Conn. Filed July 15, 1918. Serial No. 244,978. 4 Claims. (Cl. 25—131.)

1. The method of erecting a concrete structure without the intervention of molds, which consists in providing a metallic framework of suitable form and dimensions to produce the whole or a definite part of the structure, then arranging within the framework a core composed of a fusible compound, then surrounding the framework and core with plastic concrete, and then applying a melting



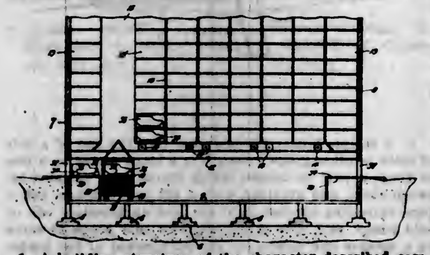
heat to the core and allowing its fusible constituents to be absorbed in and by the concrete.

1,394,998. SADIRON-HOLDER. IRA LEE, Seattle, Wash., assignor to William J. Lee, Seattle, Wash. Filed Feb. 2, 1921. Serial No. 441,794. 4 Claims. (Cl. 68—27.)



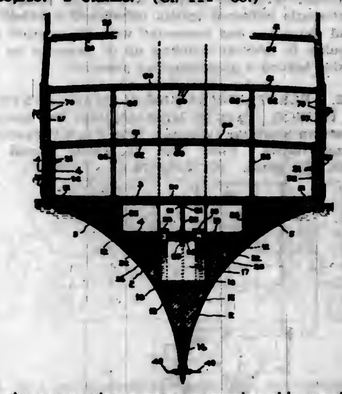
1. A sad-iron holder comprising a hollow body portion, wing devices extending therefrom and coöperating with said body to support a sad-iron in either an upright or horizontal position, and resilient means provided interiorly of said body and serving to connect said wing devices with each other for relative movements with respect to each other and laterally of said body portion.

1,394,999. OVERHEAD AND UNDERGROUND STORAGE FOR AUTOMOBILES. FRANK Y. MCKINSTRY, Chicago Ill. Filed Jan. 17, 1921. Serial No. 437,811. 6 Claims. (Cl. 20—1.13.)



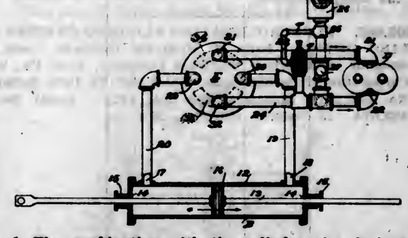
1. A building structure of the character described comprising a plurality of sections, each of said sections comprising a plurality of structural units arranged in a row, the end ones of said units being fixed and the intermediate ones of said units being movable to provide a space between adjacent units, each of said units comprising a vertical tier of individual storage compartments, and means for moving vehicles to any one of said compartments.

1,395,000. OCEAN-GOING VESSEL. FINLAY A. MCRAE, Montreal, Quebec, Canada. Filed Nov. 25, 1918, Serial No. 264,119. Renewed Apr. 28, 1921. Serial No. 465,245. 2 Claims. (Cl. 114—65.)



1. An ocean-going passenger-carrying ship consisting of a relatively wide and substantially flat passenger-, baggage- and freight-carrying portion; and a lower hull portion filled with a cementitious substance and containing a reinforced hold for boiler, engine and coal bunkers.

1,395,001. HYDRAULIC-RAM CONTROL. WILLIAM W. MACDONALD, San Francisco, Calif. Filed Sept. 3, 1919. Serial No. 321,493. 12 Claims. (Cl. 60—52.)

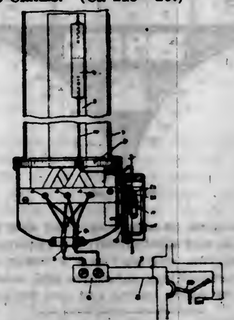


1. The combination with the cylinder of a hydraulic ram, of a piston reciprocally mounted in the cylinder dividing the cylinder into two chambers, a continuously operated pump adapted to maintain a body of liquid in constant circulation, a valve casing interposed between the pump and the cylinder of the hydraulic ram, a pair of ports formed in said casing, one communicating with the discharge side of the pump, and one communicating with the suction side of the pump, a second pair of ports formed in the casing, one communicating with one end of the ram cylinder and the other with the opposite end of the ram cylinder, a valve turnably mounted within the casing adapted to form communication between the discharge and the suction side of the pump to permit a continuous circulation of the liquid through the pump and the valve, said valve also adapted to be turned so as to form communication between the discharge side of the pump and either end of the cylinder and between the suction side of the pump and either end of the cylinder, means permitting the building up of pressure on the discharge side of the pump,

and means interposed between the valve and the pump for automatically unloading said pressure.

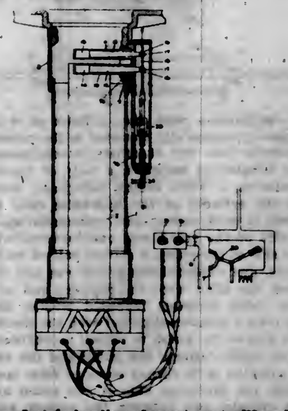
12. The combination with a double ended ram and a pump for delivering liquid under pressure thereto, of a valve interposed between the ram and the pump, said valve adapted to form a circulating connection between the discharge and the suction side of the pump, and also adapted to direct the liquid under pressure to either end of the ram and to return the liquid to the suction of the pump from either end of the ram, an automatic priming tank interposed between the valve and the pump and in constant communication with the suction side of the pump, and other automatic actuated means interposed between the valve and the pump and connected with the suction side of the pump to prevent building up of pressure on the suction side beyond a predetermined pressure.

1,395,002. ELECTRIC-HEATING-ELEMENT-CONTROLLING DEVICE. PAUL M. MUELLER, Erie, Pa., assignor to American Sterilizer Company, Erie, Pa., a Corporation of Pennsylvania. Filed Mar. 24, 1920. Serial No. 368,248. 5 Claims. (Cl. 219—20.)



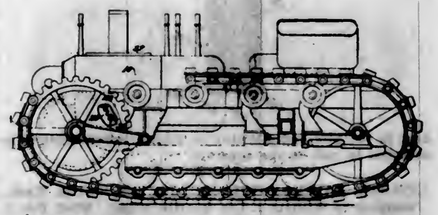
1. In an electric heating element controlling device, the combination of a heating element; a pressure generator in contact with the heating element; and devices actuated by the pressure from the generator controlling the current of the heating element.

1,395,003. ELECTRIC-HEATING-ELEMENT-CONTROLLING DEVICE. PAUL M. MUELLER, Hartford, Conn., assignor to American Sterilizer Company, Erie, Pa., a Corporation of Pennsylvania. Filed Mar. 24, 1920, Serial No. 368,247. Renewed Apr. 22, 1921. Serial No. 463,574. 15 Claims. (Cl. 219—20.)



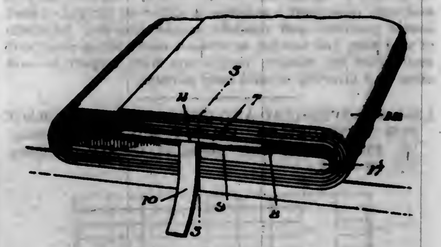
1. In an electric heating element controlling device, the combination of a heating element; two thermally sensitive elements positioned relatively to the heating element to receive different degrees of heat therefrom and producing different responses under certain conditions; and a device controlled by the difference in response of the thermally sensitive elements controlling the current of the heating element.

1,395,004. TRACTOR TRANSMISSION. EMIL F. NORELIUS, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Sept. 17, 1918. Serial No. 254,443. 15 Claims. (Cl. 180—9.2.)



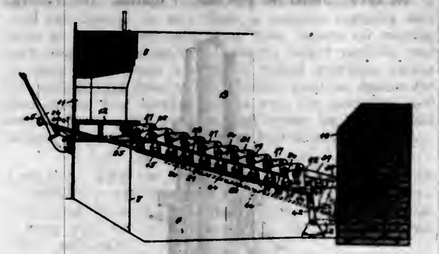
1. The combination of a pair of driven members, a drive member, planetary gearing between the drive member and each driven member, rotatable means interposed between opposite planetary gear sets and connected to a speed changing element in each of the latter for controlling the same, and power operated means for actuating said last mentioned control means in either direction whereby to produce a differential rotation of said planetary gear sets.

1,395,005. SAMPLE-HOLDER. THEODORE H. OLLESHEIMER, Rockford, Ill. Filed Sept. 30, 1920. Serial No. 413,815. 2 Claims. (Cl. 206—50.)



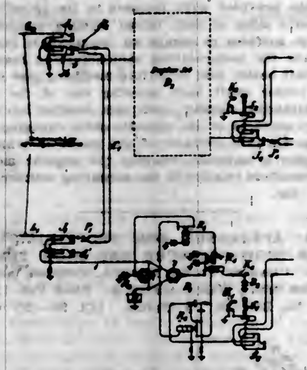
1. A sample holder for insertion into the end of a bolt of cloth or other goods, comprising a blank folded on a line to form a pair of hinged wings for holding samples between them, and provided with a slit at the hinge, and a tape extending through said slit and anchored to one of said wings, said tape extending from said hinge to serve as a marker and means for the withdrawal of the holder from a bolt of cloth in which it is inserted and leaving said wings free to swing apart.

1,395,006. STOKER-GRATE. GEORGE F. PATTERSON, Baltimore, Md. Filed Aug. 13, 1918. Serial No. 249,617. 4 Claims. (Cl. 110—39.)



2. A stoker-bar section for grates comprising a plurality of short bars with slots between the latter and said section having a concave bearing recess extending continuously in a direction crosswise of the bars and at the under side thereof.

1,395,007. TELEGRAPH SYSTEM. ARTHUR W. POST, Westbury, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Mar. 20, 1920. Serial No. 367,572. 5 Claims. (Cl. 178—75.)



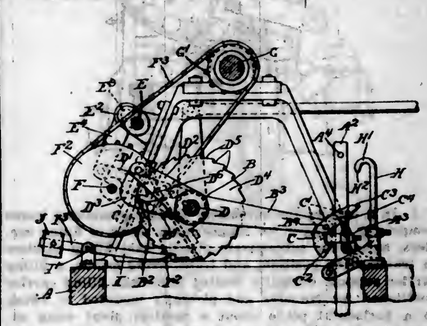
1. In a telegraph signaling system the combination of a duplex set having signaling apparatus associated therewith, a Morse line terminal having a relay associated therewith, a subscriber's loop circuit, and means associated with the said loop circuit to effect the operation of the said relay and thereby to cause the operation of the said signaling apparatus associated with the duplex set.

1,395,008. BANK. ARTHUR C. PRINCE, Chicago, Ill. Filed Oct. 4, 1920. Serial No. 414,401. 5 Claims. (Cl. 232—6.)



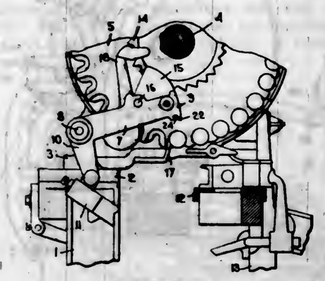
1. A bank comprising a bank body, a bar extending longitudinally through the interior of the body, a lid adapted to close the end of the body, said lid apertured to receive the end of said rod, a screw in said lid, adapted to engage and secure said rod, said screw lying entirely within the bank body, but adapted to be rotated from without said body, the bank body being apertured opposite said screw.

1,395,009. HUTCH-VALVE-OPERATING MECHANISM. AXEL G. J. RAPP, Chicago, Ill., and LAURENCE M. EWELL, Pittsburgh, Pa., assignors to Link-Belt Company, a Corporation of Illinois. Filed Mar. 8, 1919. Serial No. 281,418. 16 Claims. (Cl. 137—145.)



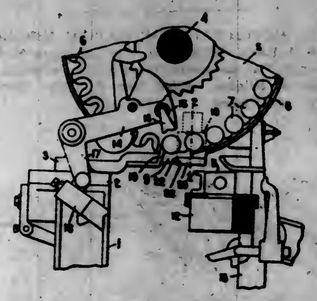
1. In a valve operating mechanism, the combination of a driving part, a power transmitting part, means for intermittently connecting them, a valve, a connection between it and said power transmitting part, and means for terminating said connection after a predetermined travel of said valve.

1,395,010. TRANSFERRING MECHANISM FOR AUTOMATIC FILLING-REPLENISHING LOOMS. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Aug. 5, 1920. Serial No. 401,490. 8 Claims. (Cl. 139—85.)



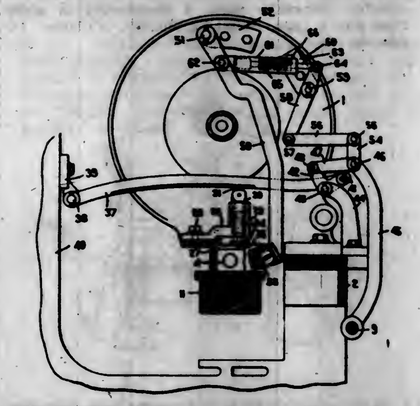
1. In an automatic filling replenishing loom comprising a hopper to support a supply of filling carriers, a transferrer for forcing a filling carrier from the hopper into the active shuttle, and means for positioning said filling carriers successively in the path of said transferrer, filling carrier engaging means partaking the movement of said transferrer automatically operable upon actuation of the transferrer selectively to force a properly positioned filling carrier from the hopper into the shuttle and to remove an improperly positioned filling carrier from transferring position.

1,395,011. BATTERY MECHANISM FOR AUTOMATIC FILLING-REPLENISHING LOOMS. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Aug. 5, 1920. Serial No. 401,491. 3 Claims. (Cl. 139—85.)



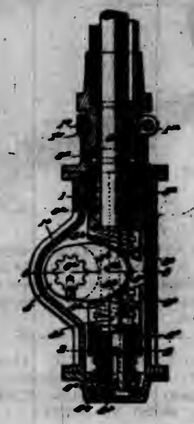
1. In a battery for automatic filling replenishing looms comprising a hopper for supporting a series of filling carriers, means for successively placing said filling carriers in transferring position, and transferring means, a filling carrier support normally located below the filling carrier positioned for transfer and pivotally mounted to swing in a horisontal plane about a vertical pivot when engaged by the filling carrier during its transfer from the hopper to the shuttle, and resilient means for restoring said filling carrier support to normal position.

1,395,012. FILLING-SEVERING MEANS FOR AUTOMATIC FILLING-REPLENISHING LOOMS. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Aug. 5, 1920. Serial No. 401,493. 13 Claims. (Cl. 139—85.)



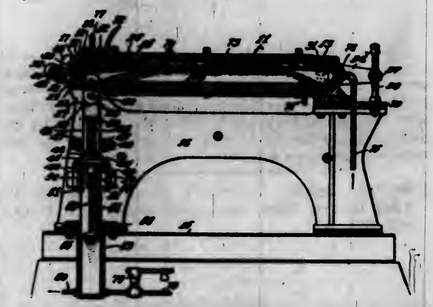
1. An automatic filling replenishing loom comprising a lay and a shuttle reciprocable thereon, means for replenishing the shuttle with a fresh filling carrier and discharging from the shuttle the exhausted filling carried upon the occurrence of substantial exhaustion of the running filling, a filling cutter mounted in the shuttle, and means operated by the movement of the shuttle and controlled by the replenishing means for actuating the cutter to sever the filling in the shuttle.

1,395,012. STEERING-GEAR. DAVID H. ROSS, La Fayette, Ind., assignor to Ross Gear and Tool Company, La Fayette, Ind., a Corporation of Indiana. Filed Feb. 20, 1919. Serial No. 278,250. 7 Claims. (Cl. 74—79.)



1. In combination a casing; a sliding actuating member therein provided with recesses in its opposite sides, the opposite sides of each recess forming oppositely inclined cam surfaces to engage an intermediate cam member; means for reciprocating said actuating member; a rocker shaft beside said actuating member; cam members on said rocker shaft each entering one of the recesses in said actuating member, each cam member having gear tooth cam surfaces on its opposite sides engaging the related opposite cam surfaces of the recess in which each cam member is entered; whereby the angular motion of the cam members relative to the actuating member is compensated for.

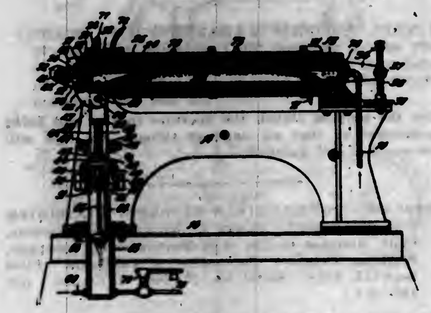
1,395,014. APPARATUS FOR PROCESSING GRAIN UNDER HIGH PRESSURE AND HIGH TEMPERATURE. CHARLES VICTOR ROWELL, Croydon, near Sydney, New South Wales, Australia. Filed Feb. 12, 1920. Serial No. 358,136. 5 Claims. (Cl. 99—2.)



1. Apparatus for the processing of grain under high temperature and high pressure consisting of a barrel-like chamber open at one end, a closure disk coacting with a soft metal ring to seal the open end of said chamber, a hinged ramp-back carrier holding said disk in an accommodating, seating, a pair of links hung at one end on eccentric sleeves rotatably fitted on fixed trunnions, a yoke

connecting the outer ends of said links and adapted to take against the carrier ramp thereby to press the closure disk home on the chamber mouth, lever arms on said eccentric sleeves with means for moving said levers to vary the tension on said links, a member carrying said links at points near said ramp yoke, means for moving said member to bring said links to locked position and to force the closure carrier to locked position, means for holding said links in such locked position, means for disengaging said locking means and for releasing said member from locked position, and means for heating said chamber and for supplying superheated steam thereto.

1,395,015. ART OF TREATING WHEAT-GRAINS AND PRODUCT THEREFROM. CHARLES VICTOR ROWELL, Croydon, near Sydney, New South Wales, Australia. Filed Feb. 12, 1920. Serial No. 358,137. 8 Claims. (Cl. 99—10.)

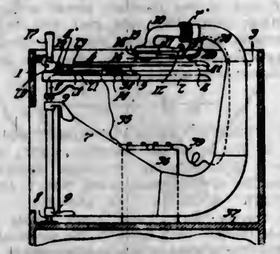


1. A completely cooked food product substantially dry but liquescent in water and free from light polarising characteristics, consisting of unmilled wheat grains, expanded to irregular shapeless masses and having the cells burst and the cell structure shattered.

1,395,016. OILPROOF IMPREGNATING AGENT OR COATING AND PROCESS. ANDREW J. ROWLAND, Cincinnati, Ohio, assignor to The Federal Products Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 10, 1920. Serial No. 395,348. 6 Claims. (Cl. 134—16.)

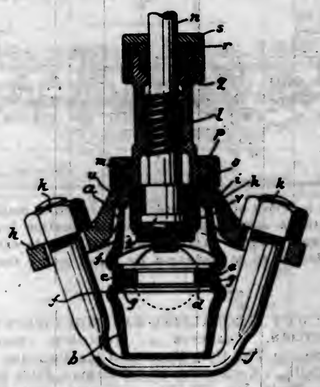
1. A composition of matter consisting of one part of metallic salts of alginic acid to about one and one-half parts of concentrated ammonium hydroxid of a specific gravity of about .898 or 26° Baumé, or its equivalent.

1,395,017. STOP MECHANISM FOR PHONOGRAPHS. SAMUEL SHELLY, Philadelphia, Pa., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a Corporation of New Jersey. Filed Apr. 5, 1916. Serial No. 89,009. 8 Claims. (Cl. 192—116.)



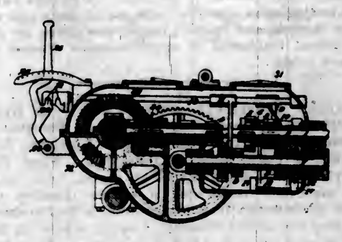
1. In a device of the class described, a movable member, a brake therefor, means for engaging and holding said brake in inoperative position, and unitary means separate from said holding means for moving said brake to inoperative position to be engaged by said holding means and for releasing said holding means, substantially as described.

1,395,018. VALVE. KARL A. SODERSTROM, Philadelphia, Pa. Filed May 11, 1920. Serial No. 380,512. 8 Claims. (Cl. 251—157.)



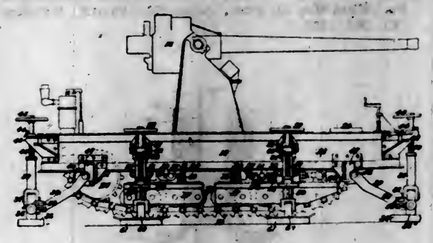
1. A valve comprising, in combination, a body formed in two sections, each of said sections being adapted for connection with an end pipe, a valve proper carried by one of the sections, a valve seat positioned between the sections, said sections being movable laterally relative to each other, and means adapted to secure the sections together.

1,395,019. TRACTION-ENGINE MECHANISM. WILLIAM TURNBULL, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Original application filed Feb. 10, 1916, Serial No. 77,382. Divided and this application filed Jan. 15, 1917. Serial No. 142,535. 7 Claims. (Cl. 74—58.)



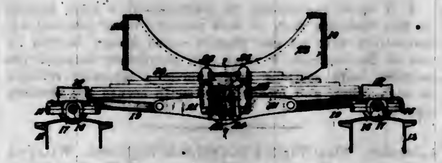
7. In a power transmission mechanism, a shiftable driving member, a shiftable step gear, a reversing gear adapted to be swung into and out of operative position, operating members for each of said gears and a single control lever adapted to selectively operate said gears to shift the driving gear and the step gear in alternate directions or to swing the reversing gear.

1,395,020. ANTI-AIRCRAFT-GUN MOUNT. WILLIAM TURNBULL and EMIL F. NORELIUS, Peoria, Ill., assignors to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Sept. 1, 1917. Serial No. 189,371. 9 Claims. (Cl. 89—40.)



2. In a device of the character described, a main frame comprising a casting having a central portion for a gun mount and integral parallel fore and aft side extensions each adapted to be embraced by a self-laying track.

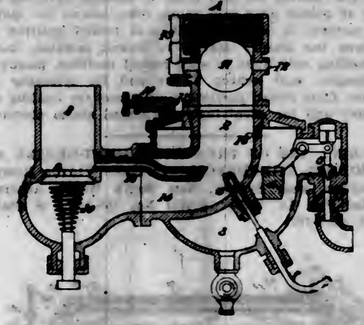
1,395,021. EQUALIZER-BAR FOR CHAIN-TRACK TRACTORS. CLARENCE A. WHITNALL, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Sept. 16, 1919. Serial No. 324,194. 4 Claims. (Cl. 305—9.)



1. In a vehicle, a main frame, a truck mechanism of the endless self-laying track type at each side of the main frame for supporting the latter and load-supporting connections for the main frame, one of said connections comprising a transversely extending leaf spring connected pivotally at its center to the main frame, and having its ends resting upon opposite truck mechanisms and movable freely thereon, and means adjacent the spring for preventing lateral movement of opposite truck frames relative to each other.

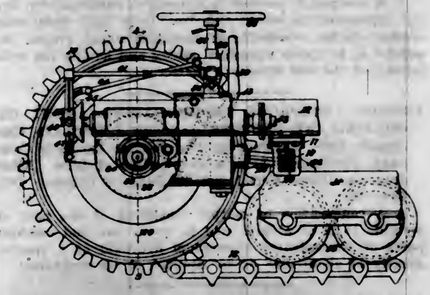
1,395,022. AUTOMATIC FUEL FEED AND MIXTURE CONTROL. ELMER E. WICKERSHAM, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Feb. 12, 1917. Serial No. 148,085. 1 Claim. (Cl. 261—73.)

A carbureter comprising a mixing chamber through which air is drawn from the exterior, a float chamber surrounding the mixing chamber, a spray nozzle for the mixing chamber through which fuel is drawn from the float chamber, a valve controlled orifice opening into the float chamber from the exterior for supplying air thereto above the normal level of the fuel, the wall between the float and mixing chambers being provided with an aperture positioned above the normal level of the fuel in the float chamber for applying suction to the latter to assist in drawing fuel into the same, a spring pressed valve for maintaining the entrance to the mixing chamber closed under periods of low suction, and an open tube extending from the exterior of the mixing chamber to a point adjacent the spray nozzle for supplying air to the latter



for the purpose stated, the aperture in the wall being positioned so that air entering through the tube will sweep past said aperture.

1,395,023. POWER-DRIVEN STEERING MECHANISM FOR TRACTORS. ELMER E. WICKERSHAM, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Sept. 18, 1918. Serial No. 254,600. 6 Claims. (Cl. 180—9.2.)

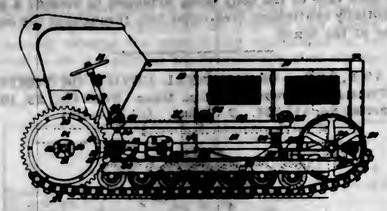


1. A transmission mechanism for tractors comprising a driving shaft, a pair of driven members operatively connected thereto, a planetary gear set between the driving shaft and each driven member, power actuated means for separately controlling said gear sets to vary their effective speeds and to reverse their direction of travel, and a single control element to effect the operation of said power actuated means.

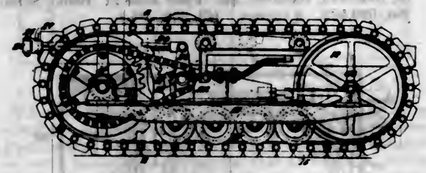
1,395,024. CONSTRUCTION FOR TRACTION-ENGINES. ELMER E. WICKERSHAM, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Nov. 5, 1918. Serial No. 261,176. 8 Claims. (Cl. 180—9.1.)

1. In a tractor, main frame, track laying mechanism at each side thereof, each track laying mechanism including a roller truck frame, a stabiliser shaft connecting the rear ends of opposite truck frames together for relative pivotal movement in parallel vertical planes, a sprocket

driving wheel for each truck mechanism journaled on the main frame, thrust links extending forwardly and downwardly from journal bearings of the sprocket wheels to said stabilizer shaft and a draw bar connected to said thrust links for the purpose stated.

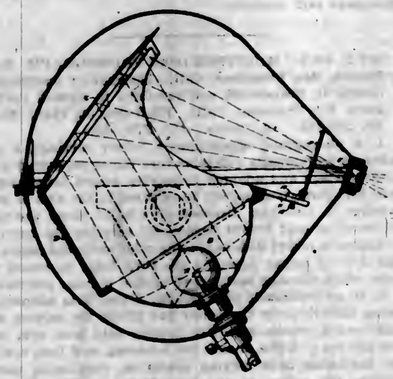


1,395,025. TRACTOR-FRAME SUSPENSION. ELMER E. WICKERSHAM, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Sept. 29, 1919. Serial No. 327,285. 5 Claims. (Cl. 305—9.)



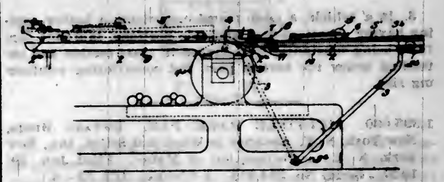
1. In a tractor, a main frame, a chain track truck mechanism at each side thereof, a driving axle for the chain track, a housing for the axle serving to support the entire weight of the main frame on the truck mechanisms, said truck mechanisms being free to rock about their connection with the main frame and resilient means to stabilise the main frame.

1,395,026. HEADLIGHT. WILLIAM G. WOOD, San Francisco, Calif., assignor to Berkeley Light Corporation, San Francisco, Calif., a Corporation of Nevada. Filed Dec. 24, 1919. Serial No. 347,180. 3 Claims. (Cl. 240—41.)



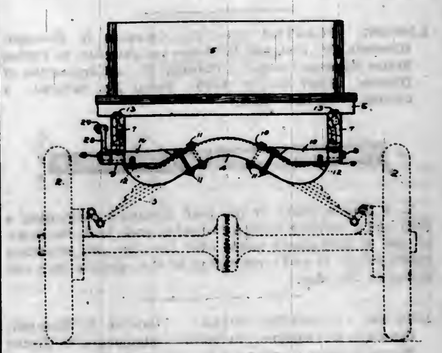
1. In a headlight, a lamp housing having a reduced light emitting aperture, a source of light in said housing, means coöperating with the source of light for forming a cone-shaped beam, an objective lens positioned in the light emitting aperture where the rays of the beam cross, and a diaphragm positioned at the principal focal point of the objective lens, said diaphragm having an aperture whose greatest dimension is less than the diameter of the cone-shaped beam at that point, whereby stray and faint rays at the margin of the cone-shaped beam will be cut out and the field of light projected will be an image of the aperture in said diaphragm, the shape of the aperture in said diaphragm being such as to produce a beam of light having its upper part segmental in form and extending parallel to the field to be illuminated.

1,395,027. ADJUSTABLE FEEDING-TABLE. FRANK R. BELLUCHE, Mansfield, Mass., assignor to United Printing Machinery Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 13, 1920. Serial No. 358,348. 15 Claims. (Cl. 271—8.)



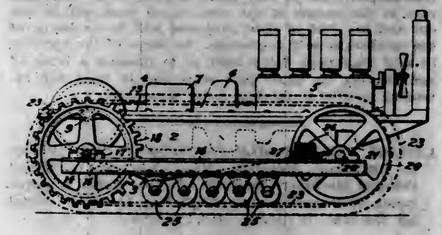
4. In a printing press having an impression cylinder; a movable feed board, means for normally supporting said board in operative position at the feed side of the cylinder; and means for supporting said feed board in out of the way position at the delivery side of the cylinder.

1,395,028. BODY FOR DUMPING-TRUCKS. JOHN P. BEAG and JAMES M. GLEASON, Omaha, Nebr.; said Gleason assignor of all his right to Great Western Commercial Body Company, Omaha, Nebr., a Corporation of Nebraska. Filed June 21, 1920. Serial No. 390,323. 2 Claims. (Cl. 298—23.)



1. In a self-propelled dumping truck having a rear cross member secured on the rear spring of the truck, a tiltable box having a pivoted endgate; a catch provided with a hand-lever and pivoted to the box to engage the endgate; a pair of aligned shafts carried by the cross member and journaled in bearings affixed to the box; a radial arm adjustable rotarily on one of the transverse shafts; and a coupling rod connecting the radial arm with the hand lever.

1,395,029. TRACK-LAYING TRACTOR. CLARENCE LEO BEST, Oakland, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Oct. 8, 1917. Serial No. 195,440. 8 Claims. (Cl. 180—9.1.)



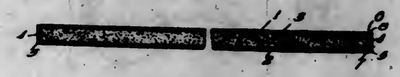
3. In a vehicle, a main frame comprising a hollow casting having a bottom part and side portions, said side portions being substantially U-shaped in cross section and extending below the bottom part and constituting reinforcing ribs.

1,395,030. MULTIPLE BAKE-PAN. EDWARD BIGGS, New York, N. Y., assignor to Wood and Selick, Inc., New York, N. Y., a Corporation of Maine. Filed Jan. 29, 1920. Serial No. 354,918. 8 Claims. (Cl. 53—6.)



1. A multiple bake pan comprising a plurality of individual pans and a connecting bar extending across the latter, the pans being formed with take up folds and a part of each of said folds being raised to embrace the body of the bar to form an attachment therewith.

1,395,031. PLASTER-BOARD. CHARLES R. BIRDSEY, Hinsdale, Ill., assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 2, 1920. Serial No. 348,940. 4 Claims. (Cl. 154—45.9.)



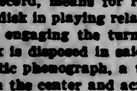
1. A plaster board of the kind described comprising a body and a covering sheet arranged at each face side thereof, one of said sheets folded over the edge and extending substantially to and terminating at the opposite face and inclosing the edge.

1,395,032. PLASTER-BOARD. CHARLES R. BIRDSEY, Hinsdale, Ill., assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 2, 1920. Serial No. 348,942. 3 Claims. (Cl. 154—45.9.)



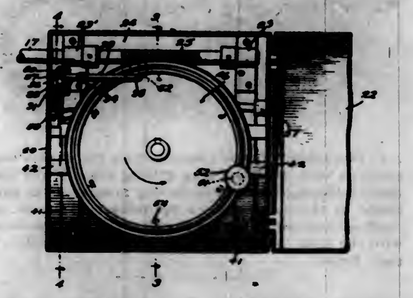
1. A plaster board comprising a suitable body, a cover sheet arranged on each face thereof, and an edge binder strip at one edge of the body folded to overlie the body at each face thereof, the cover sheet and edge binder portion on each face of the body being arranged to present a substantially continuous even outer face throughout the outer face of the board.

1,395,033. ORNAMENTAL DEVICE OR POMPON. THOMAS A. BOWERS, Boston, Mass. Filed Oct. 22, 1920. Serial No. 418,757. 2 Claims. (Cl. 41—10.)



1. An ornamental device of the class described comprising a bundle of parallel silk strands secured together intermediate of their ends by a metallic binder compressed thereupon with sufficient force to cause the gummy constituent of the silk fibers to exude, thereby causing said strands to adhere to one another.

1,395,034. TIMER FOR WASHING-MACHINES. JOSEPH A. BRENNER, Hanover, Pa. Filed June 21, 1920. Serial No. 390,522. 6 Claims. (Cl. 200—35.)



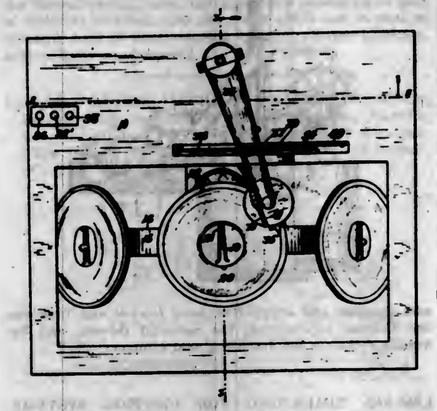
5. In a device of the character described, a wheel provided with a circumferential slot, means for rotating said wheel, a stationary contact, a movable contact, a bolt slidably mounted in said slot, and identical means for clamping said bolt and engaging said movable contact to disengage said contacts.

1,395,035. MULTIPLE-DISK PHONOGRAPH. JOHN BRIGGS, San Francisco, Calif., assignor of one-third to George C. Bornemann and one-third to Russell Berkenkamp, San Francisco, Calif. Filed Dec. 30, 1918. Serial No. 268,883. 40 Claims. (Cl. 274—10.)

1. A phonograph comprising a rotary carriage, a plurality of individually rotatable turn-tables supported upon such carriage and adapted to receive record disks and to hold said disks tangentially in relation to the axis of such carriage, a tone arm disposed at a point along the path of travel of said record, means for rotating the carriage to dispose a record disk in playing relation to the tone-arm, and driving means engaging the turn table to rotate the same when the disk is disposed in said playing position.

9. In an automatic phonograph, a tone arm adapted to swing radially from the center and across the surface of a disk record, means normally holding said tone arm in a non-playing position, means for releasing said tone arm at the beginning of a playing operation, cushioning means against the action of the reproducing needle when the tone arm is lowered onto the record, and means for automatically locking the tone arm control mechanism at the completion of said operation.

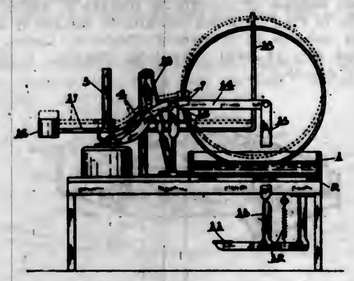
11. In a phonograph, a reproducing mechanism adapted to move across the face of a disk record, means normally holding said reproducer in a non-playing position, means for releasing said reproducer for playing and means for optionally causing the reproducing mechanism to be restored to its non-playing position at any time during the playing operation.



18. In a phonograph, a driving spindle adapted to be vertically disposed and to horisontally support a phonographic disk, a tone arm carrying a reproducer mounted to swing horisontally across the face of said disk, motor driven means for driving the spindle, a main motor circuit, a switch controlling the same, locking means for normally holding the switch in its open position, an auxiliary electrical circuit for the lock means, an operating switch controlling said auxiliary circuit and whereby the closing of said operating switch will act to release the main switch and allow it to automatically close the motor circuit.

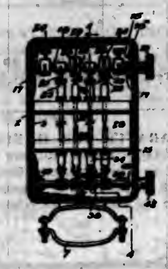
21. In an automatic phonograph, a tone arm adapted to swing across the playing surface of a disk record, a freely pivoted supporting arm extending beneath said tone arm and normally holding it in a non-playing position, a secondary arm normally holding said supporting lever as described, and electric means for moving said secondary arm from its supporting position and thereafter causing the supporting arm to lower the tone arm to its playing position.

1,395,036. APPARATUS FOR SOLUTIONING TIRE-BEADS. THOMAS A. BURNS and DAVID J. HUETHER, Toronto, Ontario, Canada, assignors to Dunlop Tire and Rubber Goods Company, Limited, Toronto, Ontario, Canada. Filed Nov. 29, 1920. Serial No. 426,998. 7 Claims. (Cl. 91—32.)



1. Apparatus for solutioning tire beads comprising a solution tank; a supporting frame for an annular bead mounted so that it may be moved vertically to dip a bead into the solution tank or lift it therefrom; and a suitably supported divided die adapted to be opened to receive and embrace the bead and to remove surplus solution as the bead is drawn through it.

1,395,037. CIRCUIT-TESTING APPARATUS. LEON PERCY CARLE, North Raymond, Me. Filed May 27, 1918. Serial No. 236,889. 8 Claims. (Cl. 175—183.)



8. A device for testing electric ignition circuits of internal combustion engines, comprising relatively adjustable contacts connected to a series of spark plugs and coils respectively, whereby individual spark gaps may be produced for each plug, and short circuiting means comprising a grounded rock shaft, a plurality of wipers thereon adapted to selectively engage the spark plug contacts and ground the same, and indicators mounted on said rock shaft corresponding to said wipers.

1,395,038. TEXTILE SPOOL OR BOBBIN. HARRY DAVIS CLINTON, Whitney Point, N. Y. Filed Mar. 24, 1921. Serial No. 454,979. 4 Claims. (Cl. 242—118.)

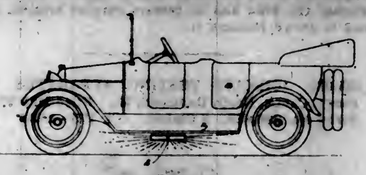


4. In a spool or bobbin, a tubular wooden body having a reduced end portion or tenon with an annular exterior groove therein, a resilient split ring seated in said groove, a head of hard fiber or metal having a tapered hole therethrough in which said tenon is inserted and having an annular groove in the wall surrounding said hole adapted to register with the groove in said tenon, a wooden plug dipped in glue having a tapered end and driven into the end of said tenon and into the end of said tube, whereby said ring is forced into the grooves of both the head and tenon and the several parts immovably secured together.

1,395,039. AUTOMOBILE LIGHTING DEVICE. ANTON J. CHMURSKI, Milwaukee, Wis.; assignor to Frank Rigas, Milwaukee, Wis. Filed Aug. 30, 1920. Serial No. 406,977. 1 Claim. (Cl. 240—7.)

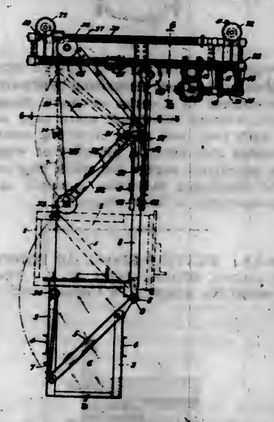
The combination with a vehicle having a running board on the side thereof of a light casing mounted beneath the running board, means in the casing for throwing the major portion of its rays of light laterally of the direction of travel of the vehicle for illuminating the road at the side

thereof when passed by a second vehicle, said running board forming a guard to prevent rays of light being



thrown in the air and also acting as an additional reflecting surface to direct the rays of light in the direction of the road surface.

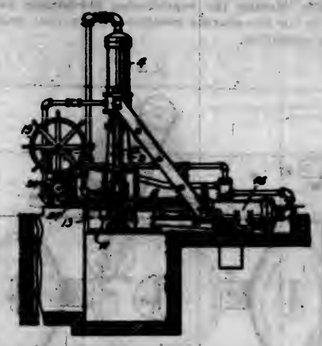
1,395,040. APPARATUS FOR HANDLING CONTAINERS OF LIQUID. JAMES ROBERT COE, Waterbury, Conn., assignor to The American Brass Company, Waterbury, Conn., a Corporation of Connecticut. Filed Aug. 13, 1920. Serial No. 403,268. 9 Claims. (Cl. 212—130.)



1. In an apparatus for lifting and tilting a container having a pouring lip, the combination of means for holding said pouring lip in a definite vertical plane while said container is being tilted, lifting cables connected to the front and rear portions of said container respectively, a frame located above said container and having one end pivotally supported adjacent to said vertical plane and having guides thereon adjacent to its rear end over which said rear cables pass, guides adjacent to said vertical plane beneath which said rear cables pass, said front and rear cables at points above said second guides being adjacent and approximately parallel, a common means located above said frame for drawing both said front and rear cables upward simultaneously, and means for raising and lowering the rear end of said frame.

1,395,041. SCRAP-BUNDLING MACHINE. JAMES ROBERT COE, Waterbury, Conn., assignor to The American Brass Company, Waterbury, Conn., a Corporation of Connecticut. Filed Mar. 29, 1920. Serial No. 369,534. 5 Claims. (Cl. 76—42.)

1. In a bundling machine, the combination of a base having a stationary open-topped compression chamber, a plurality of angularly displaced bottomless containers revolvable about a vertical axis into and out of alinement with said chamber, a vertical plunger adapted to enter any one of said containers when it is in alinement therewith and with said chamber, and force the contents out of the movable container and into the stationary compression chamber, and a horizontal plunger having its axis in line with



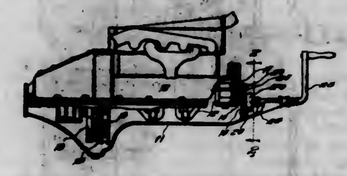
said chamber and adapted to move toward and from one end thereon to compress the material therein, and hydraulic cylinders for actuating said plungers.

1,395,042. TIMER-RING FOR IGNITION SYSTEMS. GOTTLOB HUBBEL and HERMAN SCHMIDT, Brooklyn, N. Y., assignors, by mesne assignments, to Apollo Magneto Corporation, Brooklyn, N. Y., a Corporation of Delaware. Filed Aug. 30, 1919. Serial No. 320,916. 4 Claims. (Cl. 200—19.)



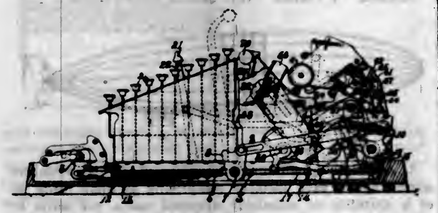
2. A support having a slanting interior shoulder to receive a cam element to be disposed adjacent said shoulder, and a member for mounting said support, said member having a passage leading to the interior of said support to supply a lubricant to said shoulder.

1,395,043. THRUST-BEARING FOR INTERNAL-COMBUSTION ENGINES. CLARENCE C. FULLER, Loxley, Ala., assignor of one-fifth to Howard E. Fuller, one-fifth to Fred C. Griffin, one-fifth to Edward L. Hiles, and one-fifth to William J. Frederick, Loxley, Ala. Filed July 14, 1920. Serial No. 396,224. 3 Claims. (Cl. 64—49.)



3. In a device of the class described, the combination of an engine casing, a crank shaft having its forward end protruding through the engine casing, a fan pulley mounted upon the protruding end of the crank shaft, a thrust bearing plate interposed between the fan pulley and the contiguous forward end of the engine casing, said plate being secured by a lower bolt and an upper cap screw in a manner adapted to permit variations in the positioning of the bearing plate with respect to the engine casing, ball bearing members interposed between the fan pulley and the thrust bearing plate, and a magneto consisting in part of elements rotating with the crank shaft and in part of elements held in fixed relation to said rotating elements, substantially as described.

1,395,044. ADDING-MACHINE. CLAIBORNE W. GOOCH, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 6, 1916. Serial No. 135,454. 18 Claims. (Cl. 235—60.)



1. The combination with driving means, registering mechanism and a dashpot cylinder and piston; of a piston-reciprocating member movable into and out of connection with said driving means, and a key and connections for shifting said piston-reciprocating member.

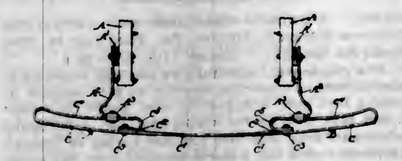
3. The combination with registering mechanism, and driving means therefor including a plurality of springs; of a separable coupling between one such spring and the driving means, and manipulative means for controlling the coupling.

4. The combination with registering mechanism, and driving means therefor including a plurality of springs and a rock shaft; of a pair of crank arms on the latter one fixed thereto and the other loose thereon and connected to one of said springs, a latch connecting the two arms, and manipulative means for operating the latch.

6. The combination with registering mechanism and driving means; of a series of levers connected to the registering mechanism, a series of type-carriers normally latched to said levers respectively, and a key and connections for collectively unlatching said type-carriers.

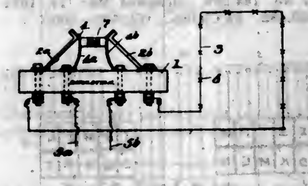
8. The combination with registering mechanism, driving means including a plurality of springs, and a governor imposing restraint upon the driving means; of a separable coupling between one spring and the driving means, a separable coupling between the driving means and the governor, and manipulative means common to said two couplings for simultaneously disabling both of them.

1,395,045. DOUBLE BUMPER-BAR. LEWIS P. HALLADAY, Decatur, Ill. Filed Aug. 18, 1921. Serial No. 493,307. 20 Claims. (Cl. 293—55.)



20. In an automobile bumper a spring impact member having a vertically disposed flat impact face bent at one end to form a spring loop having curved ends, the free end of the loop being located behind the impact surface and being inwardly extended toward the loop, the other end of the spring member being offset from the plane of the loop, extending laterally away from the loop, and having an end inwardly inclined to and terminating in the plane of the loop, the bumper bar made up of two such elements interlocking and arranged so that the free end of each impact member is located between the loop end and the body of the other member, said free ends being riveted together.

1,395,046. AUTOMATIC CIRCUIT-CONTROLLING APPARATUS. LAURENCE M. KLAUBER, San Diego, Calif., assignor of one-half to San Diego Consolidated Gas & Electric Company, San Diego, Calif., a Corporation of California. Filed Mar. 4, 1920. Serial No. 363,308. 13 Claims. (Cl. 175—374.)



1. In an automatic series circuit-controlling apparatus a circuit-loop including electric translating devices and having terminals, a dielectric resistance device located between said terminals and constructed to sustain the normal potential existing between said terminals, and means for holding the circuit closed through the circuit-loop controlled by said dielectric resistance device, said means having a movable part operating to break the connection to the circuit-loop adjacent the terminals when said dielectric resistance device is destroyed.

1,395,047. WINDOW-SASH FASTENER. ROBERT P. LITTLE, Columbus, Ohio. Filed Dec. 22, 1920. Serial No. 432,651. 9 Claims. (Cl. 292—209.)



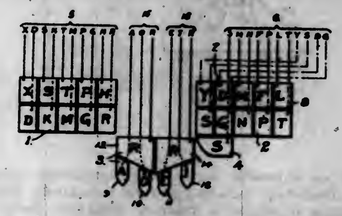
1. A sash fastener comprising a base plate adapted to be carried by the upper surface of the lower, of a pair of window sashes, a fastening arm pivotally connected with said base plate and capable of swinging on a vertical arm, a locking extremity provided upon the outer end of said arm, a keeper plate adapted to be carried by the upper of said sashes, and said keeper plate including an open sided recess capable of receiving and retaining the locking extremity of said arm.

1,395,048. DIPPER-TOOTH. WALTER S. MCKIM, Chicago, Ill., assignor to American Manganese Steel Company, Augusta, Me., a Corporation of Maine. Filed Feb. 18, 1920. Serial No. 359,656. 4 Claims. (Cl. 37—56.)



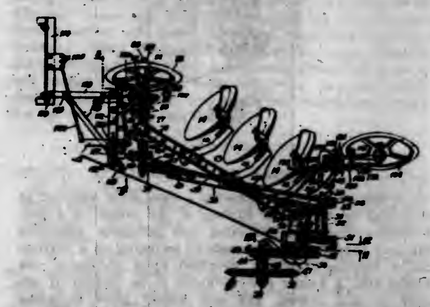
1. A dipper tooth comprising a wedge shaped body with the upper and lower surfaces thereof provided with panels or recesses adapted to cause the tooth to remain sharp during the useful wearing life thereof.

1,395,049. TYPEWRITING-MACHINE. CHARLES E. MCNAMARA, Minneapolis, Minn. Filed Jan. 24, 1917, Serial No. 144,209. Renewed Mar. 18, 1921. Serial No. 453,482. 34 Claims. (Cl. 197—100.)



1. In a typewriting machine of the character described, printing units adapted for printing simultaneously and selectively different combinations of characters in an invariable sequence which approximates the order in which the sounds represented by said characters most frequently occur in speech, said printing units comprising keys for manipulation by one hand having an arrangement different from the printed sequence, in which the keys are disposed so that those which are most frequently operated in making said combinations are in position to be manipulated by a digit which is more dexterous than other digits of the hand, and in which keys which are less frequently used are disposed so as to be manipulated by less dexterous digits.

1,395,050. DISK PLOW. CLEMENT W. MICHAEL, Racine, Wis., assignor to J. I. Case Plow Works, Racine, Wis., a Corporation of Wisconsin. Filed June 17, 1916. Serial No. 104,198. 15 Claims. (Cl. 97—55.)



1. In a device of the class described and in combination with the frame and ground working means carried thereby, furrow wheels mounted at the front and rear end respectively of the frame, a casting mounted at the front and rear end respectively of the frame, a casting mounted at the rear end of the frame, a shaft journaled in the casting, an arm on the shaft, a land wheel journaled at the free end of said arm, a clutch mounted on the shaft, gearing connecting one side of the clutch to the land wheel, a second shaft mounted in the casting, gearing connecting the other side of the clutch and the second said shaft, an arm on the latter, a shaft mounted at the front end of the main beam, means connected to said shaft for raising and lowering the front furrow wheel, an arm on said shaft and connections from said arm to the respective arms on the shafts in said casting.

1,395,051. DIRIGIBLE. ALEXANDER C. MIKANOVICH, Cleveland, Ohio. Filed Nov. 22, 1920. Serial No. 425,992. 4 Claims. (Cl. 244—3.)



1. A dirigible including a plurality of rim-like members spaced apart, each member comprising sections made up of a plurality of angularly disposed units, the units of one section intersecting the corresponding units of the other section and secured thereto, parallel elements connecting the adjacent extremities of the units of each section, a hub, adjustable elements radiating from the hub and connected with the sections of each member, and a flexible covering for said structure, and a passenger carrier supported by said members.

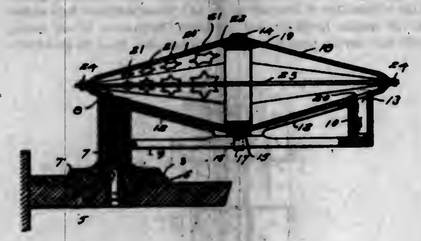
1,395,052. WRENCH. WALTER F. MILLER, Dayton, Ohio. Filed Feb. 1, 1921. Serial No. 441,578. 8 Claims. (Cl. 81—99.)



1. A wrench comprising a handle having a short cam face at one of its ends and located wholly to one side of its longitudinal axis, an open sided jaw pivoted to said end of the handle at the opposite side of said axis, and a tension means for positioning the jaw forwardly beyond its active position when disengaged from a nut, said cam adapted to always engage the nut at one side of the plane transversely bisecting the nut and extending perpendicular to that active face of the jaw that engages the opposite flat of the nut.

1,395,053. COMBINED TONE-ARM AND AMPLIFIER. VINCENZO MINNELLI, Pittston, Pa. Filed July 14, 1920. Serial No. 396,131. 7 Claims. (Cl. 274—16.)

1. In a graphophone structure, an amplifier including an elongated body, a supporting member for said amplifier including a turn post, a supporting base, means for mounting said turn post on the supporting base, a horizontal arm extended from said turn post and having an upstanding forward hollow end, a sleeve extended from said hollow upstanding end and combining therewith to form a sound wave duct to support a reproducer carrying tone arm, angular rest arms extended from the central of said horizontal arm to the turn post and the upstanding end of said horizontal arm, said elongated body of the amplifier resting upon said angular arm and the upper end of said turn post and the upstanding end of said horizontal arm,



said amplifier having a sound wave entrance opening communicating with said duct, said amplifier having sound wave escape openings spaced from the sound wave entrance opening, and means for securing said amplifier upon said support.

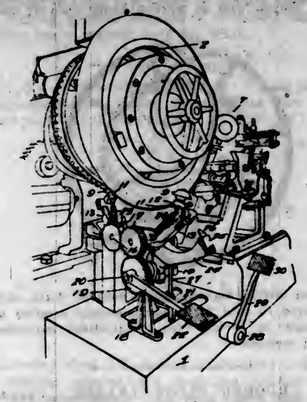
1,395,054. COTTON CLEANING AND SEPARATING MACHINE. JOHN E. MITCHELL, St. Louis, Mo. Filed Jan. 17, 1921. Serial No. 437,651. 4 Claims. (Cl. 19—9.)



3. In a machine of the class described in combination with a saw cylinder, an upper and a lower hull board coöperating therewith and the lower edge of each of which defines the size of an opening past the saw cylinder, and means operating to lower the upper hull board away from the saw cylinder to discharge accumulated products upon the lower hull board while the latter hull board is maintained in a normal operative position, and then to return the upper hull board to normal position and to move the lower hull board to a discharge position, said means operating continuously to effect the alternate movements of the hull boards.

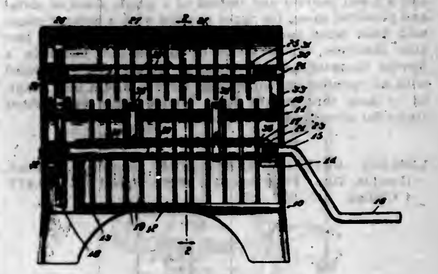
1,395,055. TIRE-MAKING MACHINE. WILLIAM B. HARSEL, Akron, Ohio, and EDWARD NALL, deceased, by Edith Alice Nall, executrix, Akron, Ohio, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Original application filed Nov. 3, 1917, Serial No. 200,185. Divided and this application filed Sept. 25, 1918. Serial No. 255,651. 18 Claims. (Cl. 154—10.)

11. A tire-building machine including a support, a stitcher device associated therewith and including supporting-arms, levers pivoted thereto, axles on which the levers are mounted, gearing associated with the levers, a



foot-lever for operating the gearing, and trimming mechanism associated with the stitcher-device.

1,395,056. DEVICE FOR APPLYING PASTE TO LABELS. ARTHUR F. NELSON, Rogers Park, Ill. Filed Dec. 27, 1919. Serial No. 347,655. 12 Claims. (Cl. 91—51.)



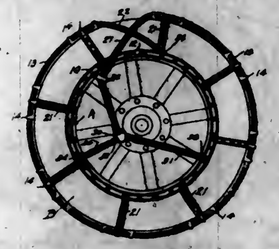
1. A device for applying paste to labels comprising a receptacle for the paste, a cover member for said receptacle, a revoluble paste carrying member mounted in said cover member, and means mounted in said cover member and adapted to press the labels into engagement with said paste carrying member as they are passed through the device.

9. In a device for applying paste to labels comprising a receptacle for the paste, a shaft, revoluble paste applying means mounted on said shaft to dip into said receptacle, pressure means adapted to press the labels into engagement with said paste applying means, and means for mounting said shaft which permits the removal of the shaft and paste applying means as a unit without disturbing the paste applying means.

1,395,057. ANTISKID-CHAIN. NELS H. NELSON, Willmar, Minn. Filed Jan. 22, 1920. Serial No. 353,179. 3 Claims. (Cl. 152—14.)

2. A chain grip for elastic tires, comprising, a pair of separable inner annular chains adapted to be disposed on opposite sides of a tire, a central annular chain adapted to

substantially encircle the outermost portion circumferentially of the tire to reduce side skidding, a plurality of lateral flights at intervals around the tire and attached to said side chains, and an anti-skidding shoe at the junc-



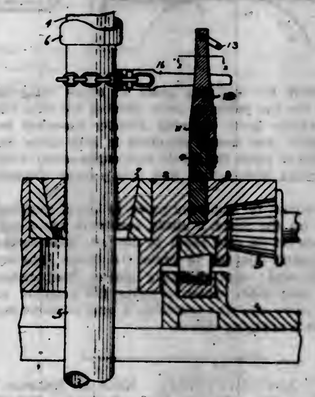
tion of each lateral flight and said central chain; said shoe being secured to said flight and movably coupled to said central chain to permit free longitudinal movement between said members.

1,395,058. RUBBER FLOOR-CLEANER. FRAZIER W. NEVIUS, St. Louis, Mo. Filed Sept. 29, 1920. Serial No. 413,482. 3 Claims. (Cl. 15—13.)



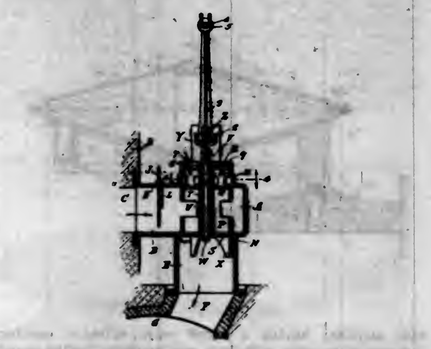
1. A floor cleaner comprising a head having an upper and a lower portion and formed of a single sheet of metal and provided along its upper portion with a scraper edge; said head being provided in its lower portion with parallel channels, rubber strips located in said channels, a ferrule mounted in said head, a ferrule brace provided with an opening carried by said ferrule, and a bolt adapted to pass through the head ferrule brace and rubber strips for securing the same together.

1,395,059. DRILLING APPARATUS. GEORGE G. REEVES, Humble, Tex. Filed Apr. 11, 1921. Serial No. 460,477. 4 Claims. (Cl. 255—35.)



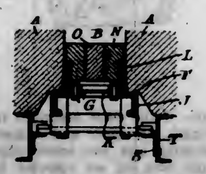
1. A break-out pin formed of two sections, one of which tapers from its lower to its upper end and whose lower end is formed with a socket, and the other of which has its upper end formed to fit into said socket.

1,395,060. AIR-VALVE FOR COKE-OVENS OR THE LIKE. WILLIAM E. ROBERTS, New York, N. Y., assignor, by mesne assignments, to Foundation Oven Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 7, 1919. Serial No. 275,632. 8 Claims. (Cl. 251—76.)



1. An air valve for coke ovens or the like comprising a casing with branches communicating with a regenerator port and an exhaust flue respectively and having a valve chamber with cylindrical bearings or seats at opposite sides and a hollow cylindrical valve body sliding in said bearings, having an end open to the atmosphere and having lateral openings and adapted in one position to admit air from the atmosphere past one of said bearings to the regenerator and in another position to admit gases of combustion from the regenerator past the other bearing to the exhaust flue.

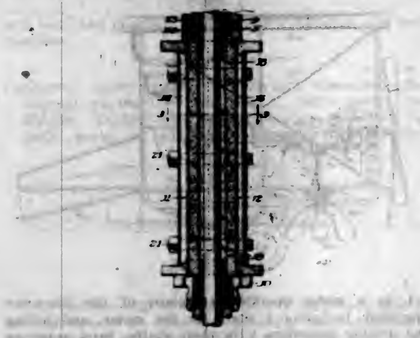
1,395,061. COKE-OVEN DOOR. WILLIAM E. ROBERTS, New York, N. Y., assignor, by mesne assignments, to Foundation Oven Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 28, 1919. Serial No. 320,346. 3 Claims. (Cl. 202—6.)



1. A coke oven door comprising an inner cast frame having inwardly converging flanges, a refractory lining comprising side bricks formed to engage said converging flanges and key bricks to hold said side bricks in engagement with said flanges, an intermediate plate, an outer cast frame and means for permanently securing the several parts together and yet permit independent expansion and contraction of the separate parts.

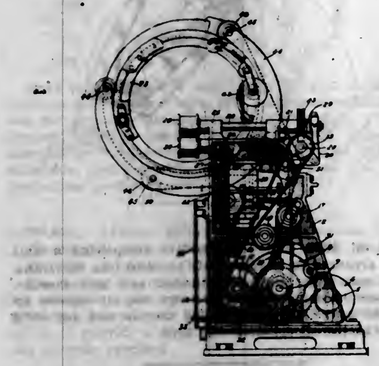
1,395,062. WATER-GAGE. GEORGE H. SARGENT, Chicago, Ill., assignor to Sargent Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 4, 1917. Serial No. 194,663. 1 Claim. (Cl. 73—54.)

A water gage, comprising a metallic member of substantial thickness having an elongated slot disposed therethrough intermediate of its ends, the ends being provided with central openings communicating with the slot and having threaded sockets, the opposite sides of said member, intermediate of its ends, being formed with smooth bearing surfaces, a pair of corresponding metallic side members, slotted intermediate of their ends to an extent corresponding with a slot in the first member, adapted to extend flush with opposite sides and have bearing on the bearing surfaces of said first member intermediate of the ends thereof, the inner sides of said pair of members being each formed with longitudinal channels on opposite sides and lengthwise of the slots therein, a relatively thick glass panel arranged with its longitudinal edges in the channels of each side member and disposed across the slots



of said members, fibrous lining in said channels arranged on opposite sides of the glass panel, regulable means extending through all of said members whereby said side members are forced into abutting relation with the sides of the first member and the fibrous lining with the glass panels clamped therebetween in steam-tight relation to both sides of each glass panel, a water-glass extending lengthwise of the first member through the central openings in the ends thereof, and means whereby the water-glass is maintained in place in fluid-tight relation with the first member.

1,395,063. WRAPPING AND UNWRAPPING MACHINE. WILLIAM C. STEVENS, Summit county, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 19, 1917. Serial No. 202,765. 2 Claims. (Cl. 242—6.)



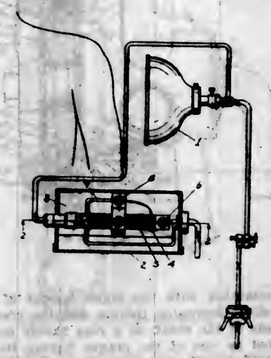
1. In a machine of the character described, the combination of a carrier for an object to be wrapped or unwrapped, means to rotate the object, a shuttle rotating in a plane at right angles to the plane of the object, a bearing plate for said shuttle having a circular track, a pivoted support on the shuttle, a spool holder on said support, a pulley connected with said spool holder, means adapted to rock said support to bring said pulley in contact with the track, and a locking member adapted to hold said support with the pulley out of contact with the track.

1,395,064. VALVE-SILENCER. CHARLES DELBERT STROMGREN, Los Angeles, Calif. Filed Jan. 26, 1921. Serial No. 440,124. 6 Claims. (Cl. 123—90.)



1. A valve stem attachment comprising a flat spring-steel member substantially S-shaped having an upper, lower and intermediate leaf, said upper leaf having an opening therein through which the lower end of the valve stem extends against the intermediate leaf, and a layer of sound deadening material secured to the upper face of the lower leaf.

1,395,065. METHOD OF ADMINISTERING THERAPEUTIC LIGHT TREATMENTS. ROY X. TUTTLE, Battle Creek, Mich. Filed Feb. 14, 1921. Serial No. 444,893. 5 Claims. (Cl. 174—177.)

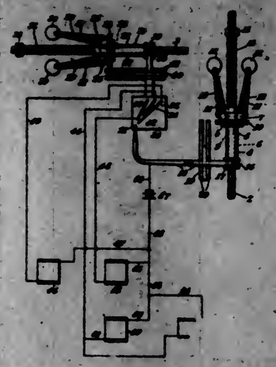


1. The method of administering treatments consisting of directing a lamp against the part to be treated, such lamp being of a heating capacity greater than can be endured on a continuous exposure and automatically interrupting the light at substantially regular intervals and for substantially uniform periods, thereby alternately exposing the part to the light and heat and permitting it to cool, the cooling periods being relatively short.

1,395,066. CONTROLLING MECHANISM. CHARLES B. UNDERHILL, New Haven, Conn. Filed Jan. 18, 1917. Serial No. 142,192. 18 Claims. (Cl. 175—183.)

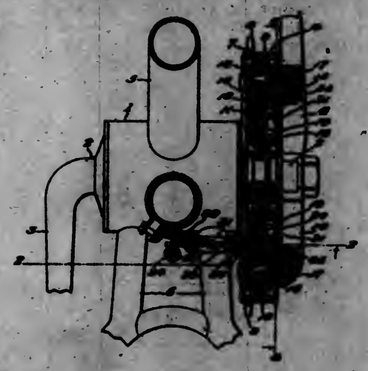
1. Controlling mechanism embodying the combination with two members moving at variable relative speeds, of

mechanism connected therewith which includes two elements movable transversely to each other, effective for



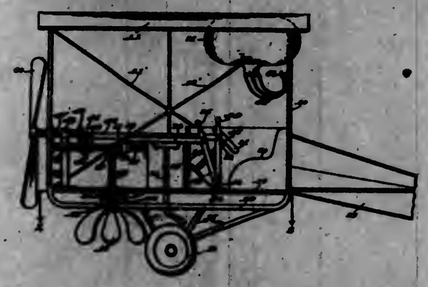
controlling a device to be operated on the attainment of predetermined speed ratios between said moving members.

1,395,067. CHANGEABLE-SPEED GEAR. HERBERT W. WARREN, Osseo, Mich. Filed Dec. 18, 1918. Serial No. 267,262. 1 Claim. (Cl. 74—34.)



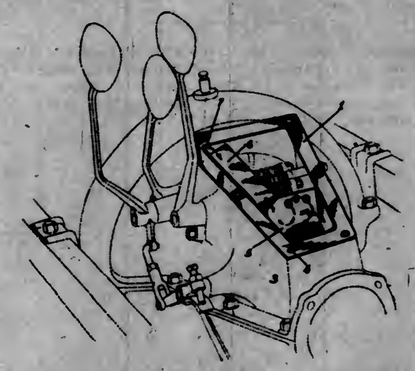
The combination with the crank hanger of a bicycle, the crank shaft journaled therein and the cranks at the opposite ends of the shaft, of a ring fixedly connected to and actuated by one of the cranks having its inner periphery provided with spaced pockets whose longitudinal walls are rounded, a circular series of satellite gears carried by said ring, and said ring having concentrically arranged laterally projecting teeth on the face thereof carrying the satellite gears, a ring gear extending around said series of satellite gears and having an internal gear face to mesh with said satellite gears and an outer sprocket face for the driving sprocket chain of the bicycle, a center gear journaled on the crank shaft provided with a hub portion formed with peripheral pockets whose longitudinal walls are rounded and which are disposed opposite the pockets in the ring or annulus, anti-frictional rollers between the pockets of the said hub and ring, said center gear having a peripheral gear face meshing with the satellite gears and having a pocket on the inner face thereof, a spring influenced dog pivoted in the pocket for engagement with the teeth of the ring, said dog having a lateral extension projecting through the pocket and extending beyond the outer face thereof, a spring influenced bell crank lever pivotally supported on the crank hanger disposed for contacting engagement with the outer end of the projection on the dog with the upper edge of the said projection, and a pull cord for operating the bell crank lever.

1,395,068. AEROPLANE. GEORGE WELSH, Hamilton, Ontario, Canada, assignor of one-half to Maria Kaminska, Hamilton, Ontario, Canada. Filed July 31, 1920. Serial No. 400,388. 2 Claims. (Cl. 244—25.)



1. In a motor operated aeroplane of the character described, including a shaft for the motor, and lifting and driving propellers with their shafts, bevel gears on said shafts, and means for shifting the bevel gears on the motor shaft into and out of engagement with the bevel gears on the shafts for the lifting and driving propellers respectively, substantially as described.

1,395,069. OIL-FILTER FOR GAS-ENGINES. ELMER B. WELLS, Stockton, Calif. Filed July 31, 1920. Serial No. 400,558. 5 Claims. (Cl. 184—11.)



1. An oil filter for vehicle-motors comprising a unit member arranged to be removably inserted into the transmission case under the cover thereof and held thereby, and means in said member whereby the oil thrown up by the fly wheel will be deposited therein and any solid particles in the oil collected and held.

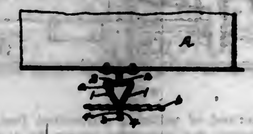
1,395,070. CHANNEL-IRON AND ANCHOR. LEWIS P. WENTZELL, Greensburg, Pa. Filed May 7, 1920. Serial No. 379,626. 4 Claims. (Cl. 72—118.)

1. In a device of the character described, a bar including a body having lateral downwardly converging elements provided at their upper ends with shoulders projecting laterally of the body, and a clip fitting about



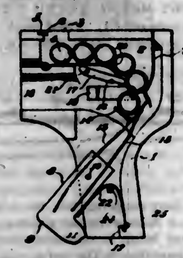
said body and provided with elements engaging over said shoulders.

1,395,071. CLIP. LEWIS P. WENTZELL, Greensburg, Pa. Original application filed May 7, 1920, Serial No. 379,626. Divided and this application filed Dec. 11, 1920. Serial No. 429,983. 3 Claims. (Cl. 72—120.)



1. A resilient clip of substantially V-shape provided at the free ends of its arms with inwardly directed elements and having its arms connected at their lower ends by an enlarged element forming an eye to facilitate manipulation of the clip and twisting together of the lower portion of said arms.

1,395,072. TOY PISTOL. GEORGE A. WILBUR, Lansing, Mich. Filed Feb. 5, 1921. Serial No. 442,729. 6 Claims. (Cl. 124—13.)



1. In a toy pistol, a body provided with a magazine chamber and a barrel bore, said magazine chamber opening out through the upper edge of the body, a pivoted trigger, projector springs carried by said trigger and adapted to receive projectiles, one at a time, from said magazine, and projectile carrying means on one of said projecting springs.

1,395,073. LUBRICANT. CHARLES STILLMAN WILLEY, Washington, Ind. Filed Oct. 18, 1919. Serial No. 331,689. 1 Claim. (Cl. 87—9.)

The herein described lubricant having fire extinguishing qualities consisting of 75% powdered graphite, 20% powdered talcum and 5% powdered borax, thoroughly mixed to provide a fireproofing powder substantially for the purpose specified.

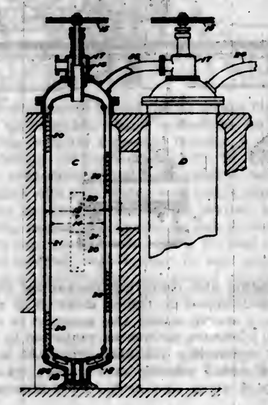
1,395,074. WINDOW. CHARLES BENNETT WING, Cedar Rapids, Iowa. Filed Mar. 24, 1921. Serial No. 454,998. 2 Claims. (Cl. 20—52.)

1. In combination, a window frame or casing, a pair of vertically slidable sashes therein, a pulley mounted in the top of the frame, a cord passing over the pulley and having an end attached to each of the sashes, a plurality of projections extending from the window jamb, the uppermost projection occurring adjacent the upper end of the jamb and the remainder therebelow whereby



with the overlapping of the sashes the surplus cord so made possible may be utilized for holding the sashes in their overlapping positions by passing the cord over the uppermost projection and then securing the same to a projection therebelow.

1,395,075. PROCESS AND APPARATUS FOR TREATING PETROLEUM OILS TO PRODUCE GASOLENE. ROBERT YATES, Passaic, N. J. Filed Aug. 14, 1920. Serial No. 403,459. 4 Claims. (Cl. 196—31.)

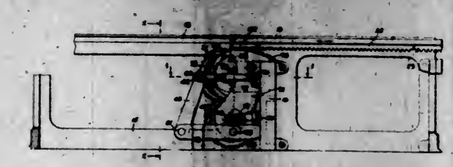


1. In a process for reducing high boiling petroleum oils to lower boiling oils: decomposing the oil by passing it through vertical cylinders having a rotating drum within each cylinder, in which drums the oil and vapors are introduced under vapor pressure, the vapors filling the drum and expelling the oil from an open bottom into an annular space between the drum and shell of the cylinders, circulating the oil around the annular space and subjecting it to a temperature of 650° to 850° F. in contact with the heating surface of the cylinder, also subjecting the vapors within the drum to the same temperature as the oil, while protecting these vapors from overheating by the surrounding sheet of oil in the annular space.

1,395,076. PRINTING-PRESS. ANDERS ANDERSON, Dunellen, N. J. Filed May 14, 1920. Serial No. 381,368. 2 Claims. (Cl. 74—98.)

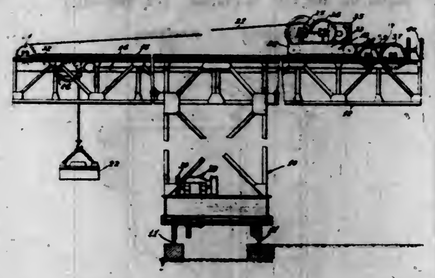
1. A device of the character described comprising a frame, a bed movable longitudinally of said frame, a pair

of racks arranged on the under face of said bed, said racks being parallel one to the other and having their adjacent ends offset, a pair of short racks mounted in alinement one with the other and offset with respect to the first mentioned racks, a power shaft arranged transversely of the frame, a driving pinion carried upon the power shaft, a second shaft mounted in the frame and parallel to the power shaft, a sleeve surrounding the



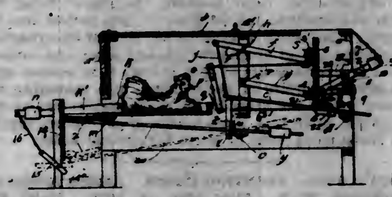
second mentioned shaft and eccentric with respect thereto, a gear carried by said sleeve, an idle pinion engaging said gear and the pinion of the power shaft to reverse the drive of said gear, a gear carried by the second mentioned shaft and meshing with the pinion of the power shaft and with one of the racks on the under face of said bed and the gear carried by the sleeve adapted to mesh with the other of said racks, and means for alternately engaging said gears with their respective racks.

1,395,077. HOISTING AND CONVEYING MACHINERY. CHRISTIAN W. AVELING, Elgin, Ill. Filed Nov. 3, 1919. Serial No. 335,431. 12 Claims. (Cl. 212—15.)



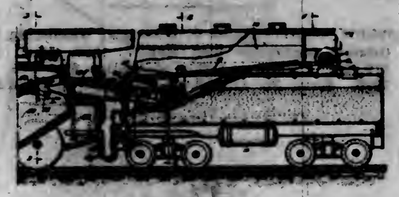
1. A hoisting and conveying mechanism comprising a bridge, a load-supporting trolley mounted to travel along said bridge, a second trolley also mounted to travel along said bridge, a hoisting mechanism supported by said second trolley for controlling the load supported by said first trolley, and means whereby said trolleys travel in opposite directions along said bridge to counterbalance each other.

1,395,078. SEGREGATING-NEST. NATHANIEL M. BAIN, Oak Grove, Oreg. Filed Nov. 9, 1920. Serial No. 422,948. 13 Claims. (Cl. 119—47.)



1. In a segregating nest, a housing, marking means located in the housing, a pigment carrying impinging member and operating means therefor, including a circuit controlling member arranged to be operated by the fowl brushing thereagainst on walking out of said housing.

1,395,079. BURNING PULVERIZED FUEL IN LOCOMOTIVES. HENRY R. BARNHURST, deceased, Catasauqua, Pa., by Henry G. Barnhurst, administrator, Catasauqua, Pa., and Henry R. Collins, Allentown, and Henry G. Barnhurst, Catasauqua, Pa., assignors to Fuller Engineering Company, Allentown, Pa., a Corporation of Pennsylvania. Original application filed Mar. 25, 1914, Serial No. 827,201. Divided and this application filed Sept. 22, 1920. Serial No. 411,481. 5 Claims. (Cl. 110—28.)



1. The method of utilizing pulverized fuel in the furnace of a boiler for supplying steam to a prime mover which consists in delivering the pulverized fuel to the furnace, supplying air to the furnace for combustion with the pulverized fuel in combustion, exhausting the products of combustion from the furnace by utilizing for that purpose the exhaust steam from the prime mover and controlling the rate of feed of the fuel to the furnace, the rate of feed of air to the furnace and the rate at which the products of combustion are exhausted from the furnace, each independently of the other two.

1,395,080. SHEET-METAL PLUSH CAR-DOOR. ALLAN S. BARROWS, Chicago, Ill. Filed Sept. 10, 1917. Serial No. 190,500. 1 Claim. (Cl. 189—46.)

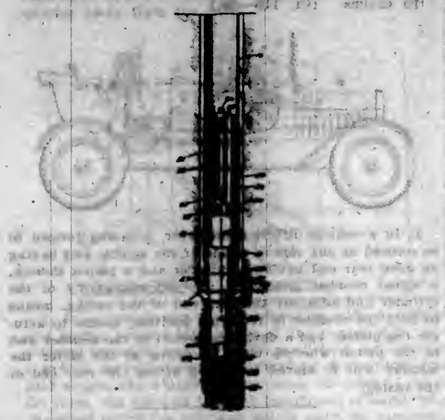


In a flush car door construction, the combination with a car wall having a door opening therein defined by wood framing, the latter being provided with shallow rabbeting around the door opening on the outer side of the car wall; of a sheet metal door composed of relatively thin sheet metal of a single thickness except around the marginal portions which consist of flat multiple-plies of sheet metal of a total thickness corresponding to the depth of said rabbeting, the sheet metal of the door, within said marginal portions, being provided with strengthening indentations to resist transverse thrusts, said indentations producing a door of an effective over-all thickness greater than the thickness of said flat marginal portions, said indented portions of the door being disposed inwardly of the outside plane of said flat marginal portions and extending within the door opening when said flat marginal portions are seated within said shallow rabbeting, whereby the depth of the rabbeting required in the wood framing is less than said effective over-all thickness of the door.

1,395,081. DRILL. CLINTON R. BARRY and MARSHALL L. MCCLELLAND, Fort Smith, Ark., assignors of one-half to The Crowley and Smith Patents Company, Oklahoma, Okla., a Corporation of Delaware. Filed Dec. 1, 1917. Serial No. 204,964. 36 Claims. (Cl. 255—74.)

1. In combination with a stem, a bit, means arranged between the bit and stem whereby the bit may be operated

by the stem or detached therefrom from a point above the well, an under reamer associated with said means and



means independent of the stem for varying the pressure of said bit.

1,395,082. FLUID-ACTUATED MOTOR. LEWIS C. BAYLES, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Feb. 21, 1920. Serial No. 360,309. 3 Claims. (Cl. 121—29.)



1. A fluid actuated reciprocating motor comprising a cylinder and piston operating therein, said cylinder being provided with admission ports communicating with the cylinder near the limits of the piston travel and exhaust ports leading from the cylinder nearer the central portion of the cylinder, separate plate valves for controlling the admission and exhaust ports for each end of the cylinder, a valve casing consisting of a flat plate of substantially the same thickness as the valves and having two rectangular openings extending through it from face to face, the valves fitting said openings in one direction but the openings being of sufficient length in the other direction to permit longitudinal movement of said valves, a flat cover plate over the valve casing to close the top of said rectangular openings, and means extending through an opening in a central section of the valve casing between the rectangular openings for keeping the valves separated by the length of said spacing means.

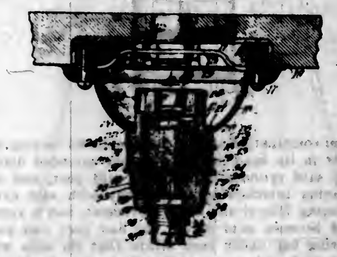
1,395,083. STEERING-WHEEL LOCK. ALFRED E. BRADLEY, Toronto, Ontario, Canada, assignor of one-half to Frank R. Leonard, Los Angeles, Calif. Filed Nov. 3, 1920. Serial No. 421,498. 2 Claims. (Cl. 70—129.)

1. In a device of the character described, the combination of a steering wheel assembly, a divided casting having a projecting stud adapted to enter an opening in the sleeve of the steering wheel column, whereby it may be secured thereto, pins extending through the divided casting whereby the divided portions of the casting may be connected together upon the sleeve of the steering column as a single unit, said pins terminating short of the top



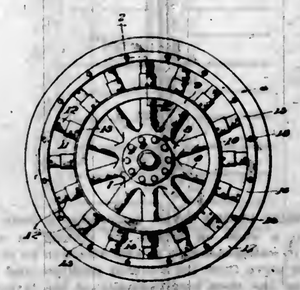
of the casting and thrust plates concealed within the casting and engaged by the upper ends of the pins, and a locking mechanism carried by the divided casting adapted to secure the steering wheel against rotation.

1,395,084. OUTLET-FITTING. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed June 28, 1915. Serial No. 36,819. 10 Claims. (Cl. 173—330.)



2. A connector device provided with means for mounting it adjacent an electrical outlet comprising an insulating base, a wiring terminal supported thereby, a contact also supported thereby for engagement with the contact of a coöperating connector device, said contact being electrically connected with said wiring terminal, a cover for said outlet having an annular connecting portion, and a supporting device having an annular portion for making connection with said first portion, and a portion for holding said base in position with respect to said outlet, a cup-shaped member supported by said second annular portion, and a lamp fixture supported by said cup-shaped member.

1,395,085. RESILIENT WHEEL. ROBERT P. BIBB, Van Buren, Ark. Filed Oct. 23, 1919. Serial No. 332,671. 2 Claims. (Cl. 152—8.)



1. In a resilient wheel, the combination, of a hub structure, spokes, an inner rim rigidly connected to said spokes, an annular band mounted about the periphery of

said inner rim, a plurality of radially extending substantially cylindrical sleeve extensions integrally carried by said annular band, a flexible outer rim structure, comprising a plurality of pivotally connected links, each of said links integrally provided with a plurality of cylindrical sleeve extensions centrally thereof adapted to co-act within said sleeve extensions of said annular band, expansion coil springs maintained within said sleeve extensions and adapted to yieldably maintain said outer and inner rim structures in spaced relation, said links of the outer rim having their longitudinal edges bent outwardly, and pivotally connected to provide a recess circumferentially about said outer rim, and a tire disposed within said recess.

1,395,086. AIR-CHARGING PUMP FOR SPRAYERS. HENRY E. BRANDT, North St. Paul, Minn., assignor to Dobbins Manufacturing Company, North St. Paul, Minn., a Corporation of South Dakota. Filed Aug. 23, 1920. Serial No. 405,338. 5 Claims. (Cl. 230—27.)



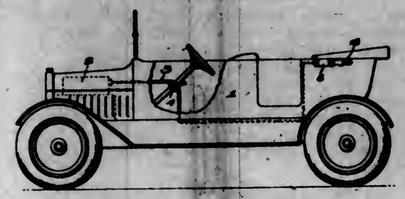
1. The combination with a pump cylinder having a central port in its head, of a spring bar extended diametrically of said cylinder adjacent to said port, and at its ends having interlocking engagement with said cylinder by springing lateral and axial movement, and a valve interposed between said spring bar and port and putting said spring bar under such strain that its ends will be held interlocked between said cylinder, and said spring bar will normally hold said valve in a port closing position.

1,395,087. CENTER-TESTING DEVICE. HARRY O. BARON, Rochester, N. Y., assignor to Alfred G. Cash, Rochester, N. Y. Filed Apr. 12, 1920. Serial No. 373,103. 8 Claims. (Cl. 33—181.)



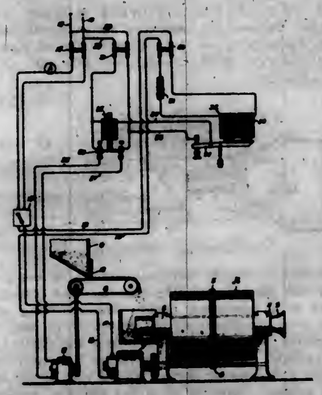
1. A center testing device comprising a body portion, a pointer, a stem on which the pointer is arranged, mounted to swing sidewise in any direction to permit the pointer to move from its centered position, and a device movable on the stem longitudinally of the latter and to one side of the point about which the stem swings, said device coöperating with the body for maintaining the pointer in its centered position.

1,395,088. DIRECTION-INDICATOR. NEWMAN T. BROWN, Seattle, Wash., assignor to Charles A. Spirk, Seattle, Wash. Filed May 4, 1920. Serial No. 378,928. 10 Claims. (Cl. 116—28.)



1. In a vehicle direction indicator, a casing formed to be secured at one side to a side of the vehicle and having an open rear end having a cylinder and a piston therein, a signal member pivoted at one end rearwardly of the cylinder and adjacent the rear end of the casing, means to hold the member in retracted position, means to actuate the piston, and a device connected to the member and to the piston whereby upon operation of the latter the member will be moved to extend across the rear end of the casing.

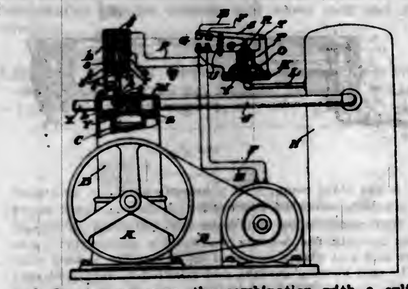
1,395,089. AUTOMATIC BALL-MILL FEEDER. HARRY H. BURHANS, Newark, N. J. Filed May 29, 1920. Serial No. 385,272. 6 Claims. (Cl. 83—44.)



2. The combination with a rotary crushing or grinding device and a motor for driving the same, of a feeder connected with the device adapted to deliver the material to be ground or crushed, a second motor adapted to drive the feeder, circuits for both of said motors, and means in the circuit of the driving motor adapted to control the circuit of the feed motor, said means actuated by the current consumed in the first motor independent of the speed of the first motor for automatically opening or closing the circuit through the second motor.

1,395,090. COMPRESSOR-UNLOADER. ALLAN O. CARPENTER, Corning, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Jan. 6, 1921. Serial No. 435,478. 5 Claims. (Cl. 230—24.)

1. In a compressor, the combination with a cylinder and an inlet valve, of an electro-responsive device having a movable member operatively arranged to control said valve, the said electro-responsive device when energized having insufficient strength to move said member and permit the valve to close until the compressor is at a predetermined speed, whereby the pressure in the compressor cylinder assists the valve to close and enables the electro-responsive device to retract and hold the said movable member away from the valve.



3. In a compressor, the combination with a cylinder and spring pressed inlet valve of the puppet type, of a solenoid mounted over the valve, a solenoid core carrying a weight, an adjustable stud extending downwardly from said weight and adapted to bear upon the stem of the inlet valve, the solenoid being of insufficient strength when energized to lift the core and weight until the compressor has been accelerated to approximately its normal operating speed, whereby the pressure of the fluid in the compressor cylinder gives sufficient lifting impulse to the inlet valve to enable the solenoid to pick up and hold the core and weight and permit the valve to close.

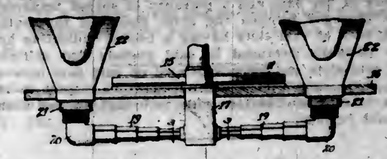
1,395,091. DRILL. RALPH CAVERLY, Chicago, Ill. Filed Nov. 6, 1920. Serial No. 422,289. 5 Claims. (Cl. 255—4.)



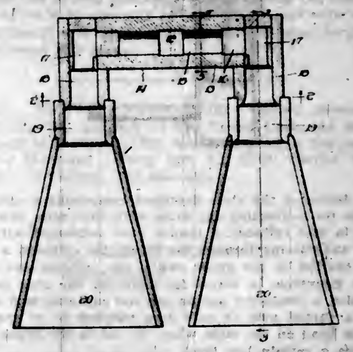
1. In a drilling apparatus, a casing, a rotary drill bit carried by said casing, a prime mover carried by said casing for rotating said drill bit, a plurality of suction pipes in said casing and opening out through the lower end of the drill casing, the upper ends of said suction pipes merging.

1,395,092. SOUND-REPRODUCING MACHINE. FORREST CHENEY, Chicago, Ill., assignor to Cheney Talking Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 11, 1917. Serial No. 185,659. 4 Claims. (Cl. 181—27.)

1. In a talking machine, the combination with a sound producing device, of a tone arm, a sound distributing chamber having an inlet opening and a plurality of outlet openings each of less cross-section than the inlet opening, a sound conduit leading from the tone arm to the inlet of said distributing chamber, and a plurality of sound amplifiers, one communicating with each of said outlet openings.

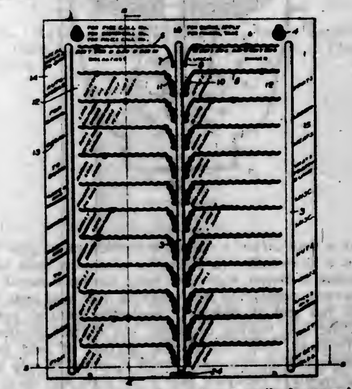


1,395,093. SOUND-REPRODUCING MACHINE. FORREST CHENEY, Chicago, Ill., assignor to Cheney Talking Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 13, 1919. Serial No. 276,712. 6 Claims. (Cl. 181—27.)



1. In a sound reproducing machine, in combination, a substantially cubical distributing chamber, a sound conduit leading to said chamber, a plurality of conduits each connected with said distributing chamber, each conduit having an opening therethrough of a plurality of shapes symmetrically arranged with respect to a transverse plane through the middle of the conduit, and resonators in communication with the ends of the conduits.

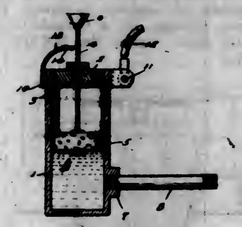
1,395,094. REMINDER. WALTER H. COLLINS, Summit, N. J. Filed Mar. 28, 1921. Serial No. 454,685. 5 Claims. (Cl. 116—135.)



1. A reminder of the character described comprising a metallic base provided with a central pressed up bead, a

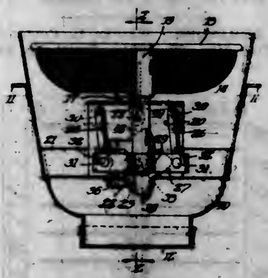
pair of side pressed up beads spaced a short distance from the edges of the base, all of said beads extending longitudinally of the base and a plurality of spaced transverse slots arranged between the outer bead and the central bead, each of said slots having a pocket, indicating buttons normally arranged in said pockets and shiftable into said slots and legends printed on said base between said slots, said legends being located in respect to the slots so that said buttons may be brought opposite any of said legends.

1,395,095. AUTOMATIC-STOP OIL-GAGE. DAVID D. CURETON, Jr., Tallahasse, Fla. Filed May 11, 1920. Serial No. 380,686. 1 Claim. (Cl. 200—84.)



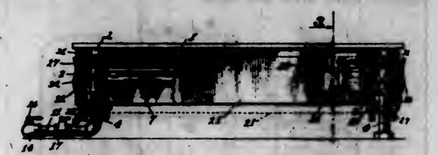
A device of the class described comprising a cylinder, means for connecting the same with the crank casing, a float in said cylinder, a headed stem connected with the float and passing through the top of the cylinder, a split ring carried by the upper end of the cylinder and insulated therefrom, a screw for clamping the ring on the cylinder, a conductor having one end engaging said screw and a curved arm on said ring adapted to be engaged by the head on the stem when the oil in the crank case reaches a certain low level.

1,395,096. FLOUR-SIFTER. JAMES H. BEAN, Chicago, Ill. Filed May 23, 1921. Serial No. 471,690. 15 Claims. (Cl. 83—69.)



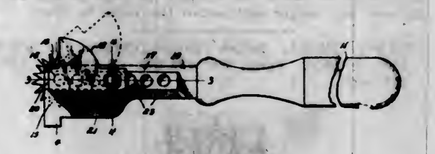
1. In a flour sifter, a casing, a vertical pivot stud fixed therein, a sieve-basket in the upper portion of said casing comprising a dished wire-cloth body having a metal rim, a transverse supporting frame having upturned ends fixed to said rim and an upwardly projecting central portion supporting and bowing upwardly the central portion of the wire-cloth body, the central portion of said frame comprising spaced upper and lower members having axial bearing openings engaging said pivot stud, and means in said casing engaging said supporting frame for oscillating the basket.

1,395,097. GAS-PLATE. LEONCIO DE MENEZES, San Francisco, Calif. Filed July 21, 1920, Serial No. 397,962. Renewed Aug. 20, 1921. Serial No. 496,752. 6 Claims. (Cl. 126—40.)



1. A gas plate comprising a heating surface; apertured fuel conduits mounted thereunder; baffles mounted above said fuel conduits to distribute fuel delivered therefrom evenly beneath the heating surface for combustion; side plates and end plates mounted in adjustable spaced relation to said heating surface and adapted to surround said conduits and baffles for admitting air thereto above; and means for adjusting each of said side and end plates independently, to provide greater or less space between said plates and said heating surface.

1,395,098. EMERY-WHEEL DRESSER. MICHAEL G. DONOHUE, Philadelphia, Pa., assignor of one-half to Frederick H. Shaw, Narberth, Pa. Filed Apr. 30, 1920. Serial No. 377,870. 1 Claim. (Cl. 125—37.)



An emery wheel dresser comprising a body bifurcated at its forward end and having a transverse aperture in rear of said bifurcation and aligned apertures in the walls of the bifurcation and also having longitudinal grooves in its sides, bearing strips with transverse apertures movably arranged in the said grooves of the body, a spindle removably arranged in said apertures in the walls of the bifurcation and in apertures in the bearing strips, a cutter arranged on said spindle and disposed in the bifurcation, a guard straddling the bearing strips and having side walls arranged at the outer sides of said strips to hold the spindle against endwise movement, and a bolt extending through the body aperture in rear of the bifurcation and also through apertures in the bearing strips and apertures in the side walls of the guard.

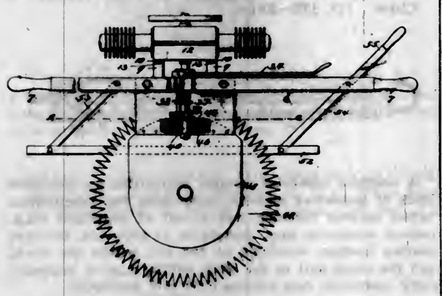
1,395,099. VEHICLE-WHEEL. AXEL E. ELLIS, Boston, Mass. Filed Jan. 9, 1915, Serial No. 1,343. Renewed Mar. 19, 1921. Serial No. 453,708. 8 Claims. (Cl. 152—8.)



2. A wheel comprising a wheel body, a circular series of levers carried thereby, a circular series of floating levers

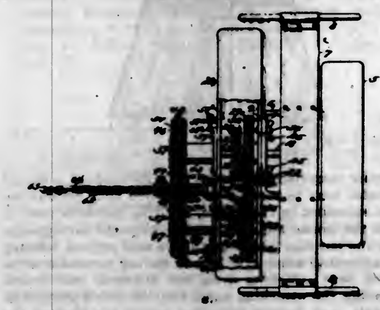
each carried by one of the first-mentioned levers, a circular series of relatively movable rim members carried by said floating levers, and helical tension springs each arranged to coact with one of the first-mentioned levers and with one of said floating levers to sustain radial and circumferential stresses between said wheel body and rim members.

1,395,100. SAWING APPARATUS. CEPHAS V. FITE, Charlotte, N. C. Filed Feb. 12, 1918. Serial No. 216,743. 4 Claims. (Cl. 143—44.)



1. In a sawing apparatus, a circular saw, hanger means for operatively supporting the saw and engaging over one side of the latter to a point beyond the center of the same to hold a bearing for the saw, the hanger and saw having a combined thickness less than the lateral set of the teeth of the saw whereby the saw and the greater portion of the hanger will be free to enter the kerf formed by the saw teeth without obstruction to the cutting action of the saw, a rotary friction driving means engaging one side of the saw near the teeth thereof, and mechanism for sustaining and bracing the saw in operative position and for actuating the driving means.

1,395,101. MANUALLY-PORTABLE SAWING-MACHINE. CEPHAS V. FITE, Charlotte, N. C. Filed Jan. 20, 1919. Serial No. 272,067. 16 Claims. (Cl. 143—44.)



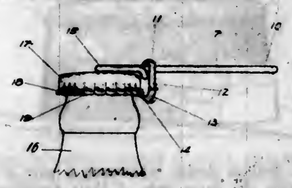
1. In a manually portable sawing machine, a motor frame having a motor carried thereby, a saw supporting frame having saw operating mechanism driven by said motor, and a rotary saw projecting forwardly from the saw supporting frame and having its greater portion clear of the supporting means therefor to permit unobstructed cutting movement thereof through a log, the rotary saw being shiftable to varying angular positions relatively to the supporting frame therefor, and means extending across a portion of the motor frame in rear of the saw supporting frame and provided with devices at opposite ends for permitting a manual grasp and portability and balancing of the complete machine and for holding the saw to its work.

1,395,102. CLASP. OTTO GUENZEL, Winecup, Wash. Filed Feb. 25, 1921. Serial No. 447,767. 5 Claims. (Cl. 24—236.)



4. A clasp, including a body portion formed with an offset end, a post secured to said body portion adjacent said offset end, a spring having one of its ends secured to the upper end of said post, said spring having the major portion of its body normally in intimate contact with the body portion of said clasp, said body portion being formed with upturned side edges.

1,395,103. STOPPER-EXTRACTOR. GEORGE GOSSER, Baltimore, Md., assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed Apr. 12, 1919. Serial No. 289,620. 3 Claims. (Cl. 65—47.)



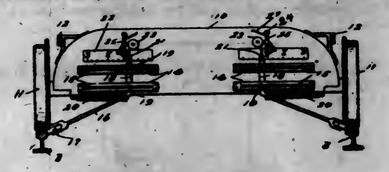
1. An extractor for metallic bottle crowns said extractor being formed of wire which is folded to form a loop at each end said loops and between the two end-loops the wire being looped to tie the strands together and to produce a depending portion which depending portion is provided with a hook that extends laterally toward one of the end-loops but in a plane below the latter whereby said latter end-loop may be seated on top of a bottle crown while the lateral hook on the depending portion may be engaged with the crown flange.

1,395,104. HAIR-CLIPPER. FOREST L. GRAY, Kenmore, Ohio. Filed Apr. 26, 1920. Serial No. 376,740. 1 Claim. (Cl. 30—1.)



The combination with a hair clipping device, of a base plate, a plurality of right angularly disposed spaced blades carried thereby, said blades having convex outer surfaces terminating in a forwardly pointed end which extends from the rear end of the teeth of the clipping device to the rear edge of the base plate and spaced pairs of relatively short curved blades located between the first mentioned blades.

1,395,105. ALARM TRACK-GAGE. WILLIAM DAVID HARPER, Sydenham, Ontario, Canada. Filed Apr. 26, 1920. Serial No. 376,851. 3 Claims. (Cl. 33—144.)



1. A device of the character described comprising a wheeled support adapted to travel upon a track, a pair of outwardly spring-pressed arms slidably mounted at the end portions of the support and carrying grooved rollers engaging against the ball of the adjacent rail, indicating members at the inner ends of said arms, each end portion of the support being provided with a graduated scale over which said indicating members travel, a bell associated with each indicating member, a pivoted spring-pressed striker arm located adjacent each bell and having an end portion hinged by a knee joint connection and disposed in the path of travel of said indicator.

1,395,106. HAT-SHAPING DEVICE. JOSEPH C. HASLAM, San Francisco, Calif. Filed July 21, 1920. Serial No. 397,984. 2 Claims. (Cl. 2—108.)



1. A hat shaping device comprising a pair of spring clamps having the outer ends of their clamping edges prolonged beyond the body thereof to engage the inner sides of a central fold within a hat crown, said projecting edges adapted to engage said fold adjacent the side of the crown to form a point at the outer junction of said fold with the sides of said crown; and means for connecting said clamps.

1,395,107. WIND MUSICAL INSTRUMENT. IVAN O. HAWK, East Cleveland, Ohio, assignor of one-half to Thomas B. Soden, Cleveland, Ohio. Filed Aug. 22, 1919. Serial No. 319,192. 3 Claims. (Cl. 84—380.)



3. A musical instrument comprising a hollow body portion and provided with a blow opening suitable for the production of sound, said body portion being provided with a longitudinally extending slot, a flexible valve adapted to close said slot supported on said body portion above said slot and at an angle to the longitudinal axis of said body portion, said valve having sufficient flexibility to move down and close said slot when pressure is exerted thereon.

1,395,108. MULTIPLE CONNECTOR. JOHN W. HAYWOOD, New York, N. Y., assignor to Horne Manufacturing Company, Brooklyn, N. Y., a Corporation of New York. Filed Feb. 27, 1919. Serial No. 279,548. 1 Claim. (Cl. 173—334.)



A multiple connector member comprising an elongated block of insulating material comprising two longitudinal halves secured together, and a pair of contained longitudinal conductor bars, perforated at intervals, the bars bearing binding terminals at one end within the block, and the cover half of the block having a short independently removable face section over said terminals.

1,395,109. BROOM. HERMANN O. HENNIG, Atlanta, Ga. Filed Mar. 23, 1920. Serial No. 368,141. 1 Claim. (Cl. 15—20.)



A broom comprising a handle, a frame made of a strand of material bent to provide an elongated open reinforcing portion embedded in the broom, securing members passing through the broom and said portion adjacent the opposite ends of the portion, said frame above said portion forming spacel attaching arms, said handle having tapered grooves in which said attaching arms are disposed, said broom surrounding the attaching arms and the lower portion of the handle, and flexible fastening means for binding the broom and arms to the handle.

1,395,110. LUMINOUS PENDANT. DEAN HOLE, Chicago, Ill. Filed Oct. 27, 1919. Serial No. 333,470. 7 Claims. (Cl. 240—1.)

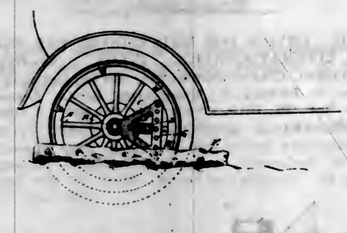
6. A luminous pendant comprising a transparent hollow body to receive a luminous substance and provided with an annular exterior groove and a metal cap having a yieldable marginal portion to be detachably snapped into

and out of engagement with said groove, said cup being provided with a central opening and therearound with



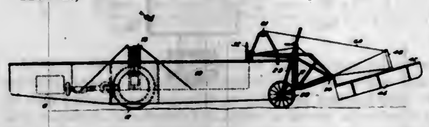
a plurality of radial spring fingers which, upon flexion, enlarges the opening for the passage of an enlargement of a strand or chain therethrough.

1,395,111. ATTACHMENT FOR MOTOR-VEHICLES. HORATIO B. HOLLIFIELD, Washington, D. C. Filed June 23, 1919. Serial No. 306,103. 3 Claims. (Cl. 180—7.)



1. A ground-engaging motor vehicle wheel having between its center and periphery a projection extending laterally beyond its outer face, adjustable in distance from the wheel's center and adapted to strike, as the wheel is forcibly rotated, an unattached bar laid upon the ground in the plane of said projection and less distant than the projection from the wheel's center.

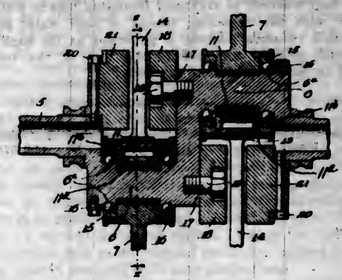
1,395,112. WHEELED BOAT. JOHN A. HOWELL, deceased, Warrenton, Va., by Belle Howell Bohn and Frances A. Neville, executors, Washington, D. C. Filed Jan. 10, 1920. Serial No. 350,625. 5 Claims. (Cl. 115—1.)



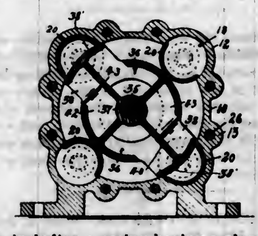
1. The combination with a boat, of a frame mounted directly in the rear of the boat's stern to swing laterally from side to side, and a rudder arranged in the rear of the frame to swing therewith and to swing vertically with respect to the frame.

1,395,113. CRANK-SHAFT. JOHN W. HUDSON, Brooklyn, N. Y. Filed Sept. 23, 1919. Serial No. 325,680. 2 Claims. (Cl. 74—38.)

1. A crank shaft having a crank pin provided with a bushing, a master rod having a clevis encircling said bushing, small rods operatively connected with said clevis, race forming members mounted in the clevis at the sides of said bushing, the crank pin having race-ways formed therein at points beyond the ends of said bushing, antifriction bodies between said race-ways of the pin and said race forming members of the clevis and weights secured to the crank shaft at points diametrically opposite the clevis and to the opposite side of the plane of rotation of the shaft relative to said clevis.



1,395,114. ROTARY PUMP. CHARLES W. JACKMAN, Detroit, Mich., assignor of one-half to Miles M. Jackman, Detroit, Mich. Filed Aug. 11, 1919. Serial No. 316,589. 1 Claim. (Cl. 103—44.)



A pump including a casing having a plurality of chambers in spaced relation and opening into the casing, an abutment rotative in each chamber and each abutment having an unobstructed interior and including a segmental portion projecting into the casing when the abutment is in one position, a rotor comprising a cylindrical central portion having openings in the ends with projections extending laterally from the ends, the projections being connected by continuous segmental portions conforming to the interior of the casing and of greater width than the entrances of the chambers so that they bridge the openings and extend beyond the edges of the same when in one position to cut off the passage for a period of time at each revolution of the rotor and said segmental portions operating against the interior of the casing and the cylindrical central portion rolling upon the segmental portion of the abutment when in another position.

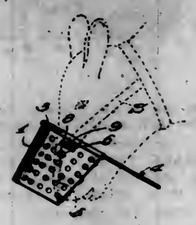
1,395,115. CHILD'S GARMENT. LEAH JASLOW, Brooklyn, N. Y. Filed Jan. 18, 1921. Serial No. 438,097. 3 Claims. (Cl. 2—143.)



1. A child's garment comprising a trousers portion and a waist portion, said waist portion having at its front

waist line fastening means for supporting the trousers portion which trousers portion is provided at its front with a flap whereon is arranged fastening means which cooperate with the fastening means of said waist portion and which trousers portion is provided at its back with an elastic member for holding the rear of the trousers portion in position against the body.

1,395,116. WEANER. FRANK E. JOHNSON, Trinidad, Colo. Filed Sept. 15, 1920. Serial No. 410,518. 1 Claim. (Cl. 119—131.)



In a calf weaner, the combination of a muzzle encircling portion of foraminous material, a bottom wall of foraminous material secured to the muzzle encircling portion, a channel formed in the upper end of the muzzle encircling portion, a bail adapted to rest in the channel and extend rearwardly below the lower jaw of the calf, and a swinging member hinged in the muzzle encircling portion and adapted to rest parallel with the bail when the head of the calf is thrust upwardly.

1,395,117. MEDICAL APPARATUS. BESS E. JOHNSTON, Chicago, Ill. Filed Mar. 22, 1920. Serial No. 367,813. 5 Claims. (Cl. 174—87.)



1. A medical apparatus comprising a casing having one end closed and the other end open, and divided into a water compartment and light chamber, a handle connected to the casing pipes communicating with the water compartment, and a spray device detachably supported at the open end of the casing and having a detachable connection with the pipes.

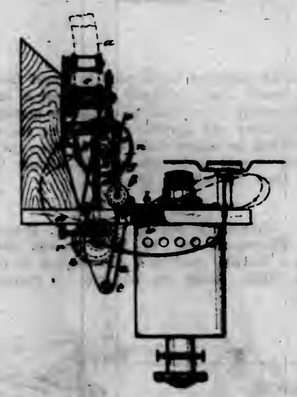
1,395,118. ATTACHMENT FOR FISHING-REELS. GEORGE D. JONES, Winterhaven, Fla. Filed Aug. 26, 1919. Serial No. 319,891. 1 Claim. (Cl. 242—84.5.)

In a fishing reel, a frame comprising a head; a drum journaled in the frame; a shaft rotatable in the head and connected operatively with the drum; a crank on the shaft; telescoped tubular members having their inner ends slidably interengaged and provided at their outer ends with flanges, one flange engaging the head, and the other flange engaging the crank, the telescoped members being



disposed about the shaft, and a helical compression spring within said members and bearing against the flanges, to press the flanges against the head and the crank, said members constituting a housing for the spring.

1,395,119. DEVICE FOR MAINTAINING THE SLACK OF CINEMATOGRAPHIC FILMS. STANISLAUS KUCHARSKI, Charlottenburg, near Berlin, Germany, assignor to Richard A. Hanssmann, Berlin, Germany. Filed Nov. 28, 1919. Serial No. 341,207. 3 Claims. (Cl. 88—18.)

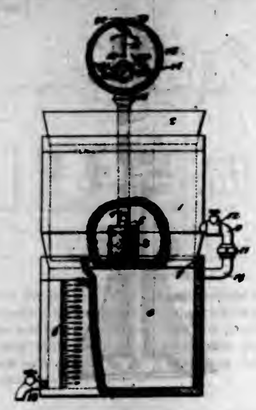


1. In combination with a self-acting apparatus for displaying moving pictures, a film band, a window, means for moving one portion of the film band toward, and another portion away from the said window, while providing a certain amount of entering slack before, and a certain amount of issuing slack beyond, the window, a driving member, and a slack-lengthening member shifted by the issuing slack into engagement with the driving member when the length of the issuing slack is unduly shortened.

1,395,120. RADIUM HYDRO-EMANOMETER. GEORGE KUNKEL, Grand Junction, Colo. Filed Mar. 12, 1917. Serial No. 154,358. 3 Claims. (Cl. 250—84.)

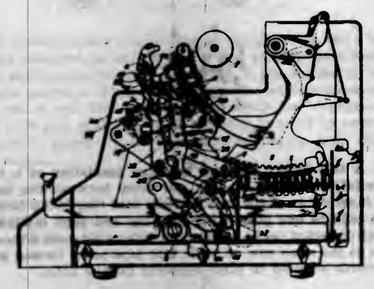
1. A device of the character described, comprising a generation reservoir, a porous cell composed of alundum

clay adapted to contain radium salts seated on the bottom of the reservoir, a removable cover for the reservoir,



and a device supported by the cover and detachably engaging the cell preventing lateral movement of the cell in the reservoir.

1,395,121. RECORDING-MACHINE. HARRY LANDSIEDEL, Norwood, Ohio, assignor to The Dalton Adding Machine Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 11, 1920. Serial No. 357,776. 23 Claims. (Cl. 235—60.)



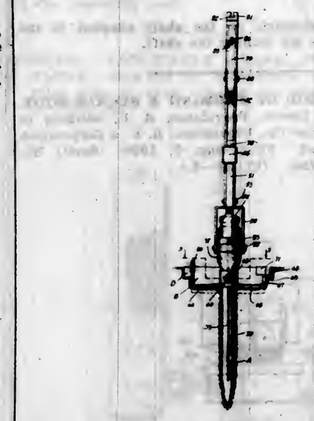
1. In a recording machine, the combination of type-carriers, spring actuated hammers for driving the type on said type-carriers to print, a latch for holding each of said hammers in retracted position, a device for releasing the latches corresponding to the type-carriers in recording positions, springs for moving latches into latching engagement with said device when the corresponding type-carriers move to recording positions, and means controlled directly by the type-carriers preventing release of the latches corresponding to the type-carriers which are out of recording position, and cooperating with said springs to move released latches to their initial positions into engagement with the corresponding hammers when the type-carriers move to their starting positions.

9. In a recording machine, a series of type driving hammers, a number of supports, a series of latches movable longitudinally on said supports into and out of latching engagement with said hammers, a bar, a stationary support to which said bar is pivoted, means for moving selected ones of said latches into position to be engaged by said bar, and a lever for oscillating said bar to release said latches from said hammers.

12. In a recording machine, a series of type driving hammers, a shaft on which said hammers are pivoted, springs for actuating said hammers in type driving operations, devices for guiding said hammers in their movements by said springs, a projection integral with each hammer, supports, latches arranged for pivotal and longitudinal movements on said supports, a bar for moving said latches out of engagement with said projections, springs for moving said latches longitudinally on said supports into engagement with said projections and pivotally into engagement with said bar, a coupling member pivoted on each latch whereby latches in lower orders will be moved out of engagement with said projections by latches in higher orders, and means for latching said couplings in position to prevent release of latches in lower orders by latches in higher orders, leaving the latches in higher orders free to be released while the latches in lower orders remain engaged with said projections.

20. In a recording machine, a series of type-carriers movable to and from recording positions, hammers for driving the type on said type-carriers to record, springs for operating said hammers, latches movable into and out of latched engagement with said hammers, a swinging bar, and means movable by the type-carriers to position to hold said latches out of position to be engaged by said bar.

1,395,122. TRAPPER'S TOOL. WILLIAM R. LAZENBY, Hardin, Mont. Filed Feb. 3, 1921. Serial No. 442,217. 11 Claims. (Cl. 43—1.)

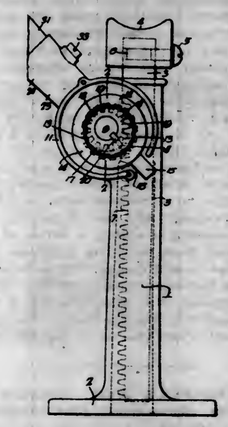


5. A tool for use in connection with a trap and anchor of the character set forth comprising a shank adapted to be driven into the ground to form an anchor receiving well, and means carried by said shank adapted upon rotation of the same to form an excavation concentric with the anchor receiving well for the reception of the trap proper, said means comprising a sleeve adapted to be positioned upon the shank, a pair of radial arms having upturned extremities extending from opposite sides of the sleeve, said arms each having a beveled side providing a cutting edge.

1,395,123. LIFTING-JACK. GEORGE O. LEOPOLD, Philadelphia, Pa., assignor to North Bros. Mf'g. Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 29, 1920. Serial No. 427,000. 4 Claims. (Cl. 254—95.)

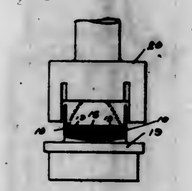
1. The combination in a lifting jack of a standard; a toothed plunger mounted in the standard; a pinion mounted in the standard, the teeth of the pinion meshing with the teeth of the plunger; a sleeve having internal

teeth engaging the pinion; means for limiting the movement of the sleeve; a shaft extending through the pinion



and sleeve; an eccentric on the shaft adapted to the sleeve; and means for turning the shaft.

1,395,124. METHOD OF FORMING A BUCKLE-BODY. FREDERICK W. LEWIS, Providence, R. I., assignor to Chapin & Hollister Co., Providence, R. I., a Corporation of Rhode Island. Filed Aug. 9, 1920. Serial No. 402,324. 6 Claims. (Cl. 29—3.)



1. An improved method of forming a one-piece buckle body having longitudinally curved side edges and rearwardly turned edge flanges, which consists in cutting the blank from sheet stock, drawing up the side edges thereof, turning inwardly the side edges of the body over an arbor, and finally withdrawing the arbor.

1,395,125. PORTABLE FLUSHING DEVICE. WILFRED EMPEY DENSMORE LEWIS, JAMES SCOTT ADAMSON, and MARTIN JAMES MAHON, Ottawa, Ontario, Canada. Filed July 19, 1920. Serial No. 397,245. 2 Claims. (Cl. 285—44.)

2. A flushing device comprising a closing member, a pipe longitudinally mounted with freedom to be adjusted longitudinally in the closing member, a projection extending from the end of the pipe, a pivoted hook pivotally mounted on the projection, an operative wire for the hook extending longitudinally through the pipe, and means for connecting the outer end of the pipe to a tap, the second last mentioned means including a stepped tapered stem, a



coupling connecting the stem with the pipe, a flexible tubular member connected to the coupling at one end and having its opposite end adapted to be connected to a tap.

1,395,126. BALL-HOLDER FOR BALL-BEARINGS. KONRAD WERNER LINDMAN, Stockholm, Sweden, assignor, by mesne assignments, to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden, a Limited Company of Sweden. Filed Apr. 10, 1918. Serial No. 227,619. 4 Claims. (Cl. 64—59.)



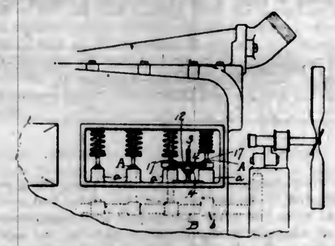
4. A ball holder for ball bearings consisting of a ring of metal, extending in axial direction between the outer and inner rings of the ball bearing, said ring being formed with laps in one piece with the ring and bent inward in radial direction, so as to form partitions between adjacent balls in the same row of balls, said laps being formed with apertures adapted to form supports for the balls.

1,395,127. INTERCHANGEABLE PRICE-CARD SECTION. HARRY L. LOVETT, Nashua, N. H. Filed May 18, 1921. Serial No. 470,731. 4 Claims. (Cl. 40—2.)



4. A price card, comprising a plurality of groups of price card sections, the cards of both groups being oppositely slitted, whereby the cards of one group may be interconnected and interchangeable with the cards of the other group, the price card sections having price marked indicia on either face and on either side of the slit, whereby upon interchanging the sections of one group with the sections of the other group different prices may be produced.

1,395,128. DEVICE FOR LIFTING PUSH-RODS ON FORD MOTORS. WILLIAM T. MCCARLEY, Luling, Tex. Filed Sept. 18, 1920. Serial No. 411,278. 4 Claims. (Cl. 29—84.)



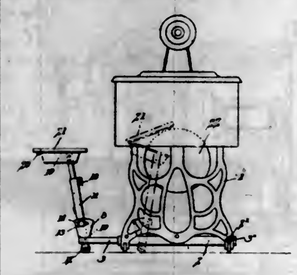
1. A device for lifting valves in automobile motors, comprising a casting formed to provide two oppositely disposed rigidly related jaws, a movable jaw pivotally carried by each of said stationary jaws, means for actuating said movable jaws and means to lift all of said jaw structures as an organized unit.

1,395,129. VEHICLE-TOP. WILLIAM P. MCCORKINDALE, Holyoke, Mass., assignor of one-half to Charles A. Lawrence, Holyoke, Mass. Filed Jan. 21, 1920. Serial No. 353,120. 1 Claim. (Cl. 296—137.)



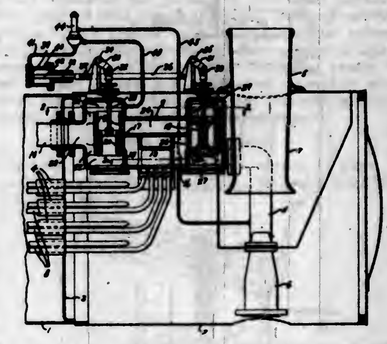
In combination, a vehicle having upright sides and a bed, guides mounted on said sides, a roof slidably interlocked with said guides to shift forwardly, a pin carried by one of said guides, a latch carried by said roof to engage said pin and a rod for releasing said latch for engagement with said pin, said roof being slidably forward to uncover the bed to permit of loading and discharging from above the vehicle.

1,395,130. SEAT CONSTRUCTION FOR SEWING AND OTHER MACHINES. ELBERT B. MCCLURD, Elizabethton, Tenn. Filed Jan. 17, 1921. Serial No. 437,904. 2 Claims. (Cl. 155—81.)



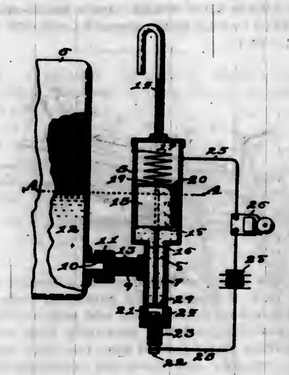
1. In a seat construction for sewing and other machines, the combination of slidable bars, upright supports pivotally connected at intermediate points in their lengths to said bars, wheels carried by the lower arms of said supports, upright braces on the bars and alongside the said supports, and means to adjustably fix the supports to said braces.

1,395,131. SUPERHEATER. NEAL TRIMBLE MCKEE, Yonkers, N. Y., assignor to The Superheater Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 25, 1920. Serial No. 361,306. 8 Claims. (Cl. 122—462.)



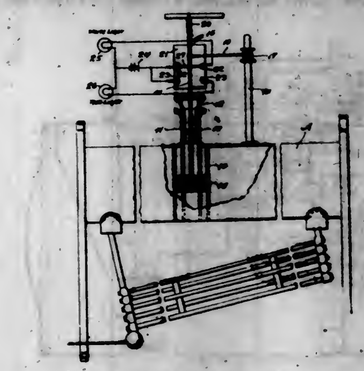
1. In a locomotive, the combination of a superheater comprising a plurality of elements, and means automatically to direct the flow of steam in response to the rate of the flow either directly to all of the elements or first to a number of the elements less than the whole and thereafter to the remaining ones.

1,395,132. LOW-SUPPLY ALARM FOR GASOLENE-TANKS. EDWARD K. MCKISSICK, Oklahoma, Okla. Filed Feb. 6, 1920. Serial No. 356,770. 1 Claim. (Cl. 200—84.)



In a device of the class described, a vented liquid container provided with a depending, integral, tubular extension, a lateral arm having a bore therein establishing communication between said extension and a tank, a cylindrical float within said container, a removable weight carried by said float, a current conducting stem passing through said weight and float extending to the bottom of said tubular extension, a threaded nipple and insulated bushing supported thereby, secured to the lower extremity of the tubular extension, a conducting bolt having an enlarged head carried by said bushing in vertical alinement with said stem, an enlarged head on the lower extremity of said stem constituting a contact point with the conducting bolt when the float is lowered and a flexible conductor secured to the upper terminal of the stem and to the container.

1,395,133. AUTOMATIC BOILER-FEED. MATTHEW F. MCNENNY, Goldfield, Colo. Filed Nov. 4, 1919. Serial No. 335,566. 1 Claim. (Cl. 137—101.)



In combination with a boiler and a water supply pipe leading thereto, a float disposed within the boiler and having a rod extending upwardly therethrough, an indicating device comprising signals of dissimilar nature, a support mounted adjacent the rod, two sets of contacts carried by said support and connected in series with a source of current and said signal devices, and an arm carried by said rod and bridging one set of contacts for energizing one signal when the water level within the boiler is normal, and said arm bridging the other set of contacts for energizing the other signal when the water level is below normal.

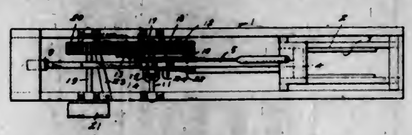
1,395,134. TRACTION-SHOE. JOHN MESSNER, Calumet, Mich. Filed Dec. 18, 1920. Serial No. 431,689. 6 Claims. (Cl. 301—44.)



6. As a new article of manufacture, a traction shoe comprising a pair of substantially pyramidal body sections, gripping extensions formed upon said body sections at one of their ends and projecting outwardly from one surface thereof, binding plates formed upon the outer ends of said gripping extensions and extending transversely thereto, said body sections provided with telescoping portions, said telescoping portions provided with alining openings, a locking key adapted for extending through said alining openings, a transverse lug formed upon said locking key for engagement with the innermost of said telescoping portions, and a locking wedge for driving through said alining openings and wedge engagement with said locking key to securely wedge the locking key in place.

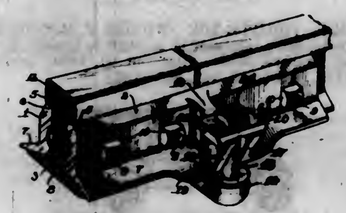
1,395,135. BALING-PRESS. ALVAH PAYNE, Orange, Tex. Filed May 29, 1920. Serial No. 385,225. 4 Claims. (Cl. 100—7.)

2. A baling press comprising a box, a plunger mounted for reciprocity movement therein, a beam attached to the plunger and provided with gear teeth, a pumper member located in the path of movement of the beam, a loop pivotally mounted upon the beam, a lever mechanism having a part extending into the path of movement of the loop, a shaft journaled for rotation adjacent the box, means for rotating the shaft, a disk loosely mounted upon the shaft and having a stud, a pawl pivotally mounted upon the



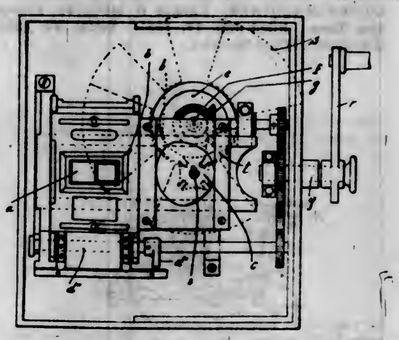
means which rotate the shaft and having an inner end portion adapted to engage the stud, the outer end portion of the pawl when the inner end thereof is in engagement with the stud adapted to encounter a part of the said lever mechanism, and a gear wheel fixed to the disk and meshing with the teeth upon the beam.

1,395,136. RAIL-JOINT. LOUIS PLUETH, Chicago, Ill. Filed Feb. 1, 1921. Serial No. 441,668. 4 Claims. (Cl. 238—172.)



4. A rail joint comprising clamping plates, a pawl rocking upon the base of the rails and having a pivotal connection with one plate and an adjustable connection with the other plate.

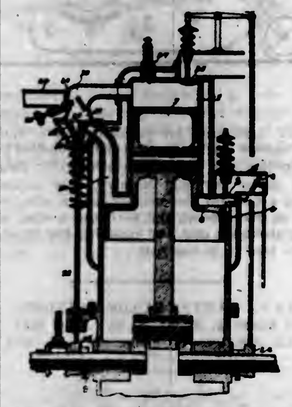
1,395,137. CINEMATOGRAPHIC MACHINE. EBALDO PLUDERI, Turro Milanese, Italy, assignor to Ettore Schieroni and Roberto Frigerio, Milan, Italy. Filed Apr. 4, 1918. Serial No. 226,695. 3 Claims. (Cl. 88—16.)



1. In a cinematographic machine for films having horizontal sets of photograms and a car transversely sliding relatively to a window formed in the machine, a driving shaft actuated by crank handle, a shaft operating the longitudinal displacement of the film and a shaft operating the transverse displacement of the car and the rotation of

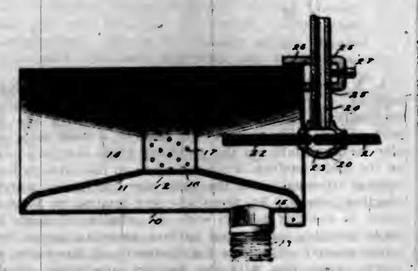
the obturator, both shafts being driven by said driving shaft, a disk keyed on the second named operating shaft fitted with a projecting pin, a gear in shape of a Malta cross coöperating with said pin, an eccentric fast with the Malta cross and revolving within a frame forming an extension of the car and leaning with its periphery in succession against either of two opposed sides of the frame, projecting ribs on the surface of the car to afford a support to the film in correspondence to the separation lines between the photograms, an obturator fitted on the said second named shaft, substantially as and to the purposes set forth.

1,395,138. INTERNAL-COMBUSTION ENGINE. EARL VERNIE PLUSH, Meade, Kans. Filed Mar. 8, 1919. Serial No. 281,334. 6 Claims. (Cl. 123—131.)



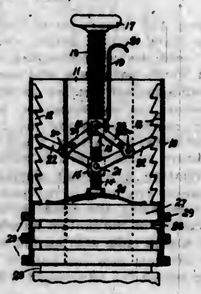
1. An internal combustion engine, comprising working and air compressor cylinders of different diameters, a duct branching from the compressor cylinder, a valve cage in communication with an annular groove, a carbureter casing having a portion covering the valve cage and a channel portion communicating with the working cylinder, the carbureter including a spray nozzle; a valve operating in said cage, arranged to be lifted from said annular groove to enable compressed air from the compressor cylinder to circulate in the annular groove and enter the carbureter casing in a substantially uniform stream, and means embodied in the carbureter coöperating with the spray nozzle to divert the air stream either wholly or in part from the spray nozzle.

1,395,139. FUEL-BURNER. HOLLIS PAINE PORTER, Tulsa, Okla. Filed Mar. 12, 1921. Serial No. 451,890. 4 Claims. (Cl. 158—109.)



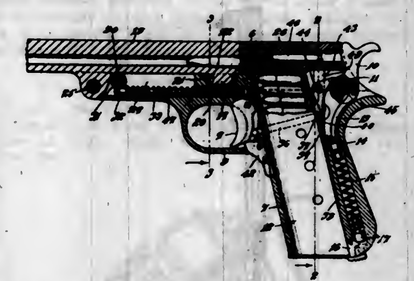
1. A burner of the class described comprising a body of tubular formation, an inner section having its end portions arranged in frusto conical formation and secured to the ends of said tubular body thereby defining an air inlet chamber and a discharge nozzle, said inner section and said body defining an annular gas chamber extending for the entire length of the body and having its intermediate portion thickened, the portion of said inner section between said air inlet chamber and said discharge nozzle defining a narrow tubular throat having openings communicating with the thickened intermediate portion of said annular chamber, and a tubular jet extending axially into said air inlet chamber and terminating rearwardly of said throat for directing a jet of steam through said throat thereby creating a vacuum within the same.

1,395,140. PISTON-RING TOOL. ALBERT F. REED, Wapello, Iowa. Filed Aug. 4, 1920. Serial No. 401,142. 4 Claims. (Cl. 29—86.4.)



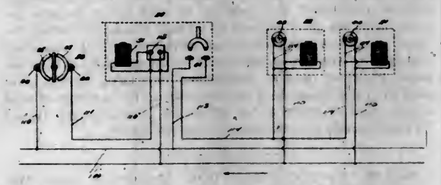
1. An implement of the class described comprising a continuous plate of resilient material bent into cylindrical form with the ends overlapping and adapted to be disposed within a piston ring, and means for expanding the cylindrical plate to correspondingly expand the piston ring to enable it to be disposed upon the piston.

1,395,141. FIREARM. EUGENE G. REISING, East Hartford, Conn. Filed May 3, 1919. Serial No. 294,397. 14 Claims. (Cl. 42—3.)



1. A firearm including a receiver, a barrel secured to the receiver at two points and having shoulders extending laterally beyond the sides of the receiver with their lower edges formed flat and in substantially a horizontal plane, said barrel and receiver being formed to provide a slot between said two points of attachment of the barrel to the receiver, a breech-bolt slidably mounted on the upper edge of the receiver back of the barrel and having forwardly extending retaining bars with flat upper edges to engage the projecting sides of said barrel whereby the breech-bolt is wholly retained in place, a cross piece connecting the ends of said retaining bars and extending through said slot, and a breech-bolt closing spring located in said slot and pressing against said cross piece to close the breech-bolt.

1,395,142. TRAIN STOP AND SIGNAL SYSTEM. JOSEPH W. RENAULT, New Haven, Conn. Filed Oct. 2, 1920. Serial No. 414,177. 7 Claims. (Cl. 246—76.)



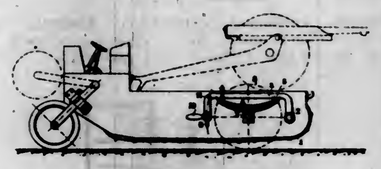
4. A train stop and signal system comprising in combination with a train carried device, electrical connected track devices, said devices embodying a normally open electric switch which includes a stationary contact member and a movable contact member operated by gravity to close said members, an electromagnet, an armature controlled thereby, means connecting the armature and the movable contact member, whereby, when the magnet is energized the contact members will be separated, means for locking the armature to prevent closing of the contact members and means extending in the path of the train carried device for releasing the armature locking means to permit of the closing of the contact members, a signal controlling device spaced from said switch and moved by the closing of the contacts into the path of the train device and a resetting switch for returning the devices to normal position.

1,395,143. DEVICE FOR AUTOMATICALLY TURNING OVER LEAVES OF A BOOK FORMED WITH SEVERAL TURNING-ARMS. ALBERT WERNER RIEBE, Königsberg, Germany. Filed July 2, 1920. Serial No. 393,745. 8 Claims. (Cl. 84—487.)



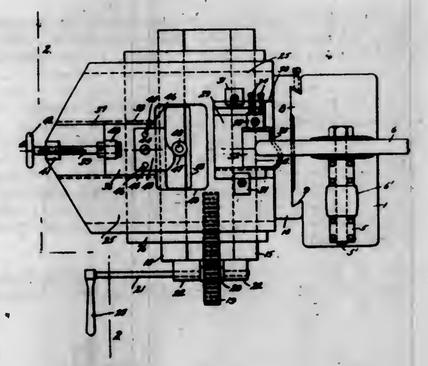
1. A leaf turner, comprising a rotary shaft, a plurality of turning arms carried thereby, radially movable arm actuating members operable by the movement of the shaft, and means for radially moving the actuating members into and out of operative relation with the turning arms during the movement of the shaft.

1,395,144. APPARATUS FOR THROWING THE WHEELS INTO AND OUT OF ACTION OF A VEHICLE HAVING BOTH WHEELS AND ENDLESS TRACKS. EMILE RIMAILHO, Paris, France, assignor to Compagnie des Forges et Acieries de la Marine et d'Homecourt, Paris, France. Original application filed Nov. 22, 1919, Serial No. 339,903. Divided and this application filed Oct. 20, 1920. Serial No. 418,327. 3 Claims. (Cl. 305—1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



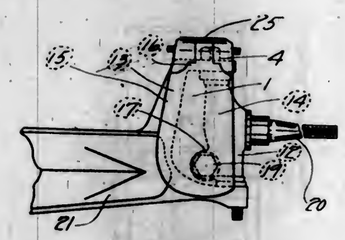
1. In an apparatus for transforming a vehicle propelled on endless tracks into a vehicle propelled on wheels, the combination of a pivoted wheel carrying member, and a locking device for said member, said locking device comprising a seat for the member, and a slidable member arranged at one side of the seat and having a member projecting above the seat and engaging the wheel carrying member to hold it in the seat.

1,395,145. CUTTER-BLADE GRINDER. CHARLES FRANCIS ROBBINS, Keene, N. H. Filed Mar. 18, 1920. Serial No. 366,738. 2 Claims. (Cl. 51—100.)



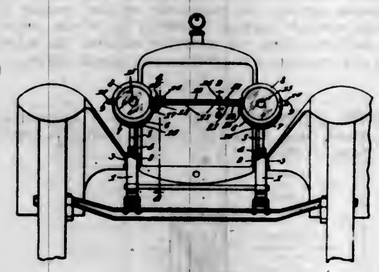
1. A machine of the character stated, comprising a support, a grinding element carried by the support, a vertically adjustable platform associated with the support and movable transversely thereof, a feed table slidable longitudinally on the platform, blade carrying means on the table, pattern carrying means on the table in longitudinal alinement with the blade carrying means, a spring exerting pressure on the table and tending to hold the blade in working contact with the grinding element, said blade carrying means and pattern carrying means being independently adjustable longitudinally of the table, and means engageable with the pattern compelling simultaneous longitudinal movement of both of said means when the table is moved transversely of the platform.

1,395,146. AUTOMOBILE-LOCK. ROBERT B. RUTHERFORD, St. Louis, Mo. Filed Apr. 28, 1921. Serial No. 465,193. 4 Claims. (Cl. 70—90.)



1. An automobile lock, comprising a pair of jaws hinged together at their top ends and adapted to fold down over the top and front and rear sides of one of the frontal steering knuckles and adjacent axle yoke; and means for locking the said jaws in said position.

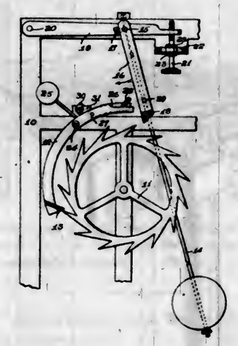
1,395,147. DIRIGIBLE HEADLIGHT. WILLIAM A. RUTHERFORD, Salem, Oreg. Filed Jan. 31, 1921. Serial No. 441,326. 1 Claim. (Cl. 240—61.)



In a device of the class described, supports; lamps mounted to swing on the supports and having shafts; a connector wherewith the shafts are rotatably assembled, to permit an adjustment of each lamp; means for securing the connector to each shaft releasably; a lever adjustable on the connector circumferentially thereof; means for holding the lever in adjusted positions on the connector circumferentially thereof; a torsion spring engaged at its ends with the lever and with one support; a stop finger cooperating with one support under the action of the spring, the stop finger being adjustable circumferentially of the connector; and means for holding the stop finger in adjusted positions circumferentially of the connector.

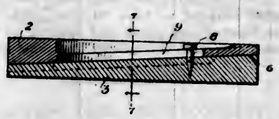
1,395,148. CLOCK-ESCAPEMENT. HENRY C. SAUL, Douglas, Wyo. Filed Feb. 8, 1921. Serial No. 443,403. 4 Claims. (Cl. 58—123.)

2. In a clock escapement, an oscillating impulse device adapted to be engaged by the scape wheel and adapted to impart an impulse to the pendulum, a pallet adapted at one end to intermittently engage and release the scape wheel, and coacting means on the pallet and impulse device engageable in a movement of the impulse device to the left, without affecting the pallet and serving to act



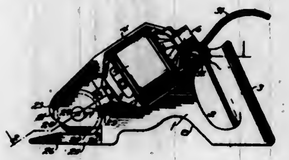
on the pallet for release of the scape wheel in the reverse movement of the impulse device.

1,395,149. PRINTER'S QUOIN. ALFRED SAUTER and LEO SAUTER, Chicago, Ill. Filed Mar. 13, 1920. Serial No. 365,534. 1 Claim. (Cl. 254—42.)



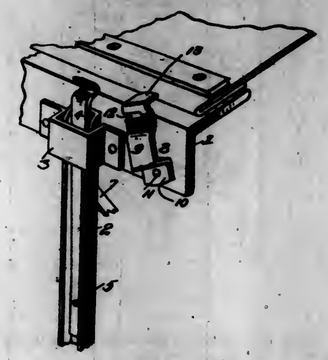
A printer's quoin comprising two wedge shaped members each provided with a rib terminating short of one end and each groove arranged at a different level but extending in the same direction as the rib, the groove of one member slidably receiving the rib of the other member, and projections on each member slidably engaging the side of its associated groove, each member being further provided with tool receiving recesses.

1,395,150. ELECTRIC CLOTH-CUTTER. FRANK A. SCALFARO and JOHN A. MCLEOD, Chicago, Ill. Filed June 21, 1920. Serial No. 390,447. 3 Claims. (Cl. 164—76.)



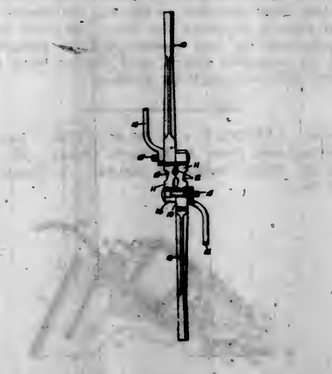
1. A cloth cutting device comprising a substantially triangular frame having its inclined rearward side formed into a handle portion and being adapted to be slidably moved along a flat surface, a rotary cutting blade mounted at the forward end of the frame, an electrically actuated driving mechanism disposed along the inclined upper side of said frame and operatively connected with the cutting blade, and means positioned beneath the cutting blade and extending forwardly thereof for guiding work into position to be cut by the rotary cutting blade.

1,395,151. FASTENING DEVICE FOR AUTO-PORCH BEDS. PETER C. SCHAEFER, Denver, Colo. Filed Feb. 3, 1921. Serial No. 442,128. 1 Claim. (Cl. 5—5.)



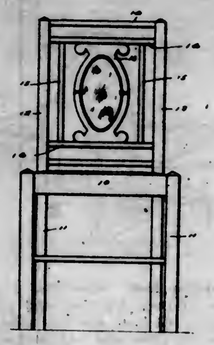
In a device of the class described, the combination with a frame, a bracket secured to said frame, of a leg provided with a spring catch extending into said bracket, said catch engaging the frame, a movably mounted locking device provided with an inner cam end, and said locking device adapted to have the cam end positioned between the bracket and catch and bearing or crowding tightly against the catch for holding the same against the frame.

1,395,152. TWISTING-TOOL. JOHN SCHNEIDER, Elizabeth, N. J. Filed Mar. 31, 1920. Serial No. 370,233. 4 Claims. (Cl. 140—118.)



1. A twisting tool having separable heads to engage a splicing sleeve and wire strands to be joined, and having a pair of clamping bolts to hold the heads together; said tool being formed with an elongated opening for the purpose of permitting one of the clamping bolts to be shifted out of registry with one of the heads to facilitate the application and removal of a twisting tool from the work, and a plurality of various-sized semi-oval shaped depressions made in the separable heads whereby socket ovals of selected size can be formed to adapt the tool for use on splicing sleeves of various sizes.

1,395,153. CHAIR-BACK AND PICTURE-FRAME THEREFOR. BERNARD G. SCHOMACKER, Glendorf, Ohio. Filed May 16, 1921. Serial No. 470,177. 1 Claim. (Cl. 155—188.)



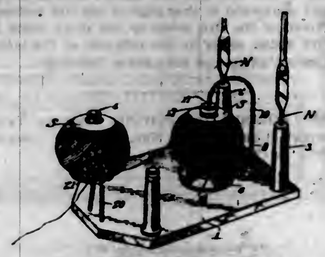
The combination with a chair back having a central opening, of an elongated panel of the same size as the opening and received therein, the edges of the panel presenting a continuous curve, registering apertures in the edge of the panel and in the element first named, a spring held pin operating within said apertures and an enlarged head formed on the outer end of the pin and projecting beyond the outer edge of the element first named, said pin moving outwardly to release position, and the frame being cut away for receiving the enlarged head and providing a recessed portion around the head.

1,395,154. CHRONOMETER. WILLIAM A. SLINGERLAND, Portland, Oreg. Filed Apr. 15, 1919. Serial No. 290,225. 1 Claim. (Cl. 58—2.)



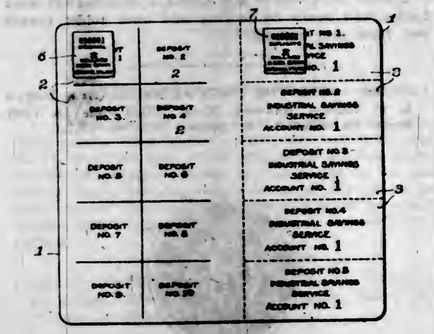
A chronometer comprising an internally toothed hour dial, a pulley rotatable therewith, a minute dial having pinion engagement with the toothed portion of the hour dial, a weighted cord engaging the said pulley, and movement controlling means comprising a tubular annulus of circular cross sectional outline containing mercury in its lower portion and subdivided by centrally perforated concavo-convex partitions facing in the same direction and spaced apart an equal distance.

1,395,155. HOLDER FOR SPOOLS, &c. ADONIRAM J. SMITH, Seattle, Wash., assignor of one-half to Thomas P. Fridan, Seattle, Wash. Filed Oct. 29, 1918. Serial No. 260,114. Renewed Mar. 28, 1921. Serial No. 456,207. 3 Claims. (Cl. 223—57.)



1. The herein described holder for spools comprising a base, a disk fixed thereon, a spur rising rigidly from the center of the disk, a spring rising from said base in rear of the disk, making a coil, and having its upper end bent forward and downward into a point standing above said spur, a rotary spindle adapted to fit the bore of the spool and enlarged at its lower end and having sockets at both extremities within which said point and spur are removably and rotatably mounted, and a thread guide rising from the front end of the base.

1,395,156. AUXILIARY BANKING MEANS. ORLAND V. SMITH, Milford, Conn., assignor, by mesne assignments, of one-half to Edward L. Roberts, Amarillo, Tex. Filed Nov. 25, 1918. Serial No. 263,950. 6 Claims. (Cl. 283—57.)



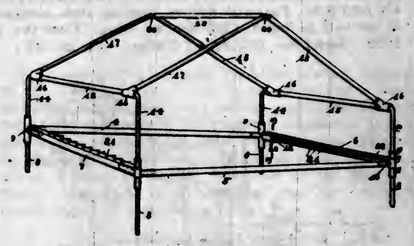
1. A device for evidencing bank deposits and credits including adhesive stamps of definite denominations printed in couplets of progressive serial number, the two stamps of each couplet being of like denomination and serial number, one adapted for attachment to the depositor's pass book and the other to the deposit slip.

1,395,157. SPOOL-STEWARD. RUFUS W. SMITH, Chester, S. C. Filed Mar. 15, 1919. Serial No. 282,818. 1 Claim. (Cl. 242—130.)

In combination, a wooden warping creel spool provided with a longitudinal bore having reduced ends, a metallic spindle extending through the bore of the spool and adapted to be supported horizontally in the creel, and cylindrical metallic journals arranged on the spindle in relatively spaced relation with the reduced ends of the bore and having an altitude considerably less than the corresponding dimensions of the reduced ends of the bore and contacting only at their curved sides with the walls of the reduced ends of the bore.

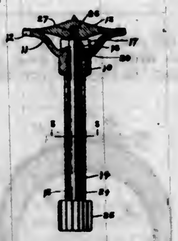


1,395,158. COLLAPSIBLE BED STRUCTURE. SAM A. SMITH, Los Angeles, Calif. Filed Dec. 12, 1919. Serial No. 344,310. 1 Claim. (Cl. 5—5.)



A collapsible bed structure including longitudinal and end members, feet, uprights, and joint members with which the feet and uprights telescope, said joint members having round and angular ends with which the longitudinal and end members of the bed respectively are connected.

1,395,159. SAFETY-RAZOR. ALEXANDER T. STEWART, Philadelphia, Pa. Filed Jan. 24, 1921. Serial No. 439,480. 2 Claims. (Cl. 30—12.)



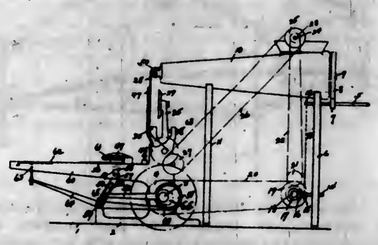
1. A safety razor comprising a tubular handle portion having opposed outwardly curving combed flanges at one end, a flexed flat spring longitudinally disposed between the combed flanges the ends whereof are turned and centrally notched, means for holding said flat spring in place, a razor having opposed hollow-ground blades adapted to seat on the aforesaid combed flanges, ribs central of said razor for coöperation with the centrally notched ends of the flat spring, and means for adjustably connecting the razor and handle portion in operative position.

1,395,160. DAYLIGHT DEVELOPING AND FIXING APPARATUS FOR ROLL-FILMS. MYRON H. STOCKWELL, Geneva, N. Y. Filed Nov. 22, 1920. Serial No. 425,764. 14 Claims. (Cl. 95—90.5.)



1. A roll film developing and fixing apparatus having a casing provided with a revoluble head, a series of independently revoluble nested drums each having a film outlet slot, a central spool seat, means for anchoring the free end of the film to the casing, and means for respectively and consecutively locking the drums to the head.

1,395,161. AUTOMATIC BATTING-OUT AND SLAPPING-ON DEVICE. FRANK P. STROBL, Sebring, Ohio, assignor of one-half to Ray Y. Cliff, Sebring, Ohio. Filed Oct. 6, 1920. Serial No. 415,182. 3 Claims. (Cl. 25—22.)



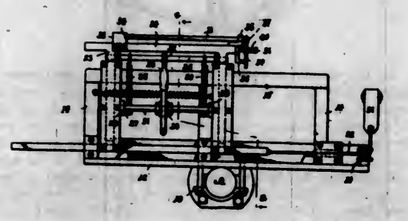
1. In a device of the class described, a machine for cutting out a form from a vertical plastic ribbon formed of pottery clay and placing the same on a mold, means for moving said mold and form to a desired distance from place of putting form on mold, means for releasing said mold and form, means for carrying the scraps remaining after cutting out said forms to a puddling machine, substantially as described.

1,395,162. TIRE-PROTECTING CASING. PEARL E. STROUD, South Heart, N. D. Filed June 16, 1919. Serial No. 304,367. 3 Claims. (Cl. 152—16.)



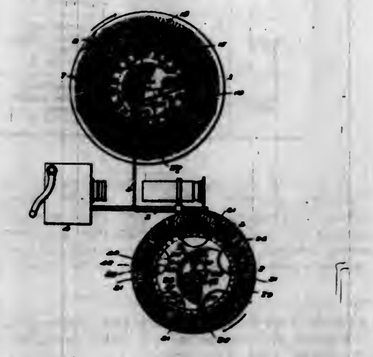
2. The combination with a pneumatic tire casing, of a thin sheet metal protecting casing embracing the outer surface of the tire casing from points adjacent the inner periphery of the tire casing, the sheet-metal casing comprising a wide and a narrow part, each a complete circle and curved to correspond to and tightly fit the outer surface of the tire casing, the wide section extending across the tread of the tire and the narrow casing firmly and detachably connected to that edge of the tire section nearest the tread of the tire, whereby the sheet metal is held to the tire casing solely by the inflation of the latter and is attachable thereto and detachable therefrom.

1,395,163. POLISHING-MACHINE. MARTIN TATOSIAN, Bridgeport, Conn. Filed Nov. 27, 1920. Serial No. 426,697. 5 Claims. (Cl. 51—95.)



1. A machine of the character described, comprising a rotatable polishing wheel and means for supporting work to be polished and for moving said work across the face of said wheel, said means including a reciprocatory carriage, a spring for holding said carriage in normal position, a foot lever for causing longitudinal movement thereof against the action of said spring, a reciprocatory work holder, and means for moving said work holder toward and from said carriage.

1,395,164. REEL FOR PICTURE-MACHINES. JOSEPH K. E. TERVAS, Hancock, Mich. Filed June 18, 1920. Serial No. 389,682. 6 Claims. (Cl. 88—18.7.)



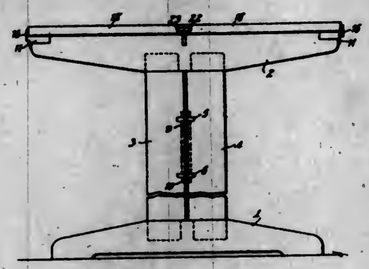
1. In a device of the character described, means for unwinding a coil of film from its center, a receiving reel, and a ring in the receiving reel, said ring adapted to lie on the coil and be lifted with it to the delivery reel.

1,395,165. DYEING-MACHINE. JAMES H. THOMPSON, Trenton, N. J., assignor to Hussong Dyeing Machine Company, Groveville, N. J., a Corporation of New Jersey. Filed Nov. 23, 1918. Serial No. 263,856. 5 Claims. (Cl. 8—19.)



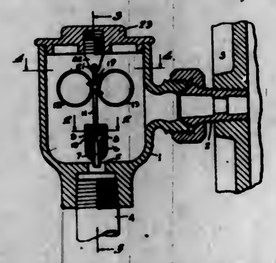
1. The combination in a dyeing machine, of a vat having a solid structure at one end with vertical cylindrical passages of an even diameter throughout and rotating circulating propellers of substantially the same size as the passages and mounted therein.

1,395,166. TABLE. GEORGE E. TOMLINSON, Winchester, Ky. Filed June 8, 1920. Serial No. 387,321. Renewed Sept. 17, 1921. Serial No. 501,423. 6 Claims. (Cl. 45—31.)



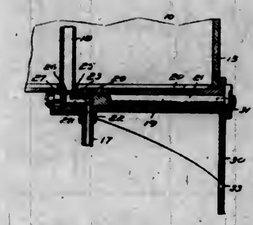
1. A table comprising a top portion having sockets in its edges, a supporting portion, a stationary post in the middle of the upper face of the supporting portion having projections thereon adapted to engage certain of said sockets, and a movable locking means at one end of the upper face of the supporting portion adapted to engage another socket to lock the top portion to the supporting portion.

1,395,167. THERMOSTATIC TRAP. REUBEN N. TRANE, La Crosse, Wis. Filed Jan. 25, 1919. Serial No. 273,085. 6 Claims. (Cl. 236—59.)



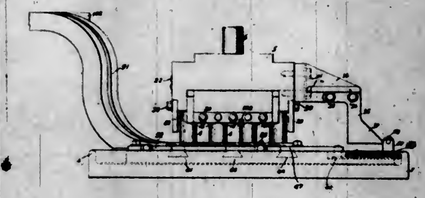
2. A thermostatically controlled device comprising a thermostatic element of substantially the shape of a figure 8, and a controlling member secured to the element at the meeting of the two loops thereof operated by the combined effect of the two loops.

1,395,168. MEASURING AND DISPENSING DEVICE. LOUISE B. TUCKER, York, Pa. Filed June 10, 1920. Serial No. 387,837. 7 Claims. (Cl. 221—100.)



1. In combination, a liquid container, a shaft journaled in the lower portion of the container having a ported extremity, an overflow pipe section communicating with the ported extremity of the shaft, an adjustable overflow pipe section communicating with and carried by the ported extremity of the shaft and arranged to swing in the container incident to turning movement of the shaft, and means independent of the overflow pipe for conducting liquid from the container.

1,395,169. MACHINE FOR CASTELLATING NUTS. WALTER UMBDENSTOCK, Chicago, Ill., assignor to The Hill Pump Valve Company, Chicago, Ill. Filed May 8, 1919. Serial No. 295,689. 123 Claims. (Cl. 10—72.)

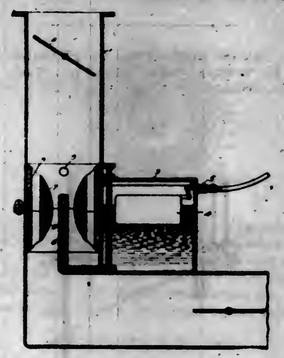


1. In a machine of the class described, means for supporting nut blanks in upright position to provide a stable arrangement thereof, a punch, and means for guiding said punch into the center bore of the nut and outwardly through the nut wall.

1,395,170. CARBURETER. WILLIAM ASHWORTH, North Adams, Mass. Filed Jan. 28, 1920. Serial No. 354,588. 1 Claim. (Cl. 123—123.)

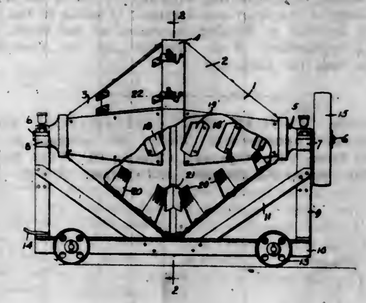
A carbureter, including a venturi, comprising two annular sections fitted together, each of said sections being formed with air by passes, and means for automatically moving one of said sections with respect to the second of

the same for alining the air by passes and regulating the passage of air through the same in direct ratio to the



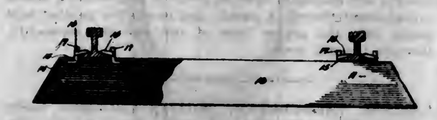
speed of the engine with which the carbureter is associated.

1,395,171. MIXER. GEORGE W. BISHOP, Jr., Lynbrook, N. Y., assignor of one-third to George de V. Gilmore, New York, N. Y. Filed May 6, 1921. Serial No. 467,499. 3 Claims. (Cl. 259—81.)



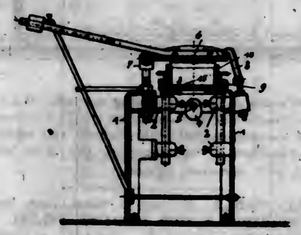
1. In a mixer for fertilizer a casing adapted to receive fertilizer chemicals, a plurality of blades arranged in the casing acting to shift the fertilizer as the casing rotates, and a plurality of stirring fingers for breaking up and finely dividing the fertilizer as the casing rotates, said fingers being arranged in groups substantially in line with said blades circumferentially.

1,395,172. RAIL TIE AND FASTENER. JOHN C. BOTT, Dell Rapids, S. D. Filed Mar. 18, 1921. Serial No. 453,195. 1 Claim. (Cl. 238—348.)



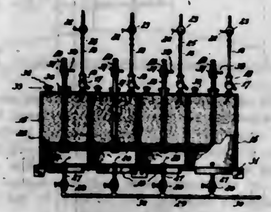
The combination with a hollow railroad tie having a relatively thin top portion provided with openings and a rail positioned at right angles thereon; of a rail fastener comprising a straight shank, a curved retaining portion at the lower end of said shank, a head at the upper end of said shank extending in an opposite direction to said retaining portion, and a squared extension on the upper end of said shank adapted to be engaged by a wrench or other tool whereby when said shank is inserted in one of said openings said fastener may be turned to bring said head in engagement with the base flange of said rail and thereby bind said retaining portion against the under side of the top portion of said tie substantially as described.

1,395,173. MANUFACTURE OF BRICKS. FRIEDRICH BRETTSCHNEIDER, Raitz, Moravia. Filed Mar. 26, 1920. Serial No. 368,989. 7 Claims. (Cl. 25—41.)



1. The process for making bricks which consists in charging plastic material into a mold-frame closing said frame and applying pressure to cause the excess-charge to escape and to be cut off between the mold-frame and cover plates, the pressure being then maintained until the rest of the excess-charge resulting from the elasticity of the mass has escaped through apertures provided for this purpose.

1,395,174. LUBRICATING DEVICE. CHARLES CALHOUN, Duquesne, Pa., assignor of one-half to Arthur G. Meeks, Duquesne, Pa. Filed Jan. 20, 1921. Serial No. 438,701. 4 Claims. (Cl. 184—39.)

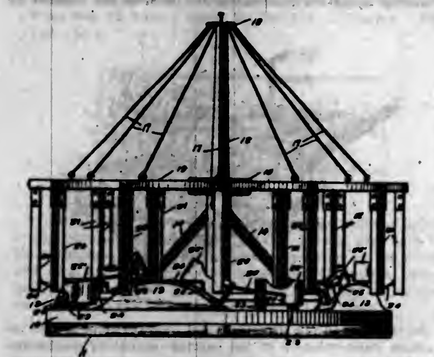


4. A force-feed lubricating device comprising a receptacle to contain the oil and having a feed-pipe extending therefrom, a piston working in the receptacle to contain the oil at one side of said piston under pressure, means for admitting steam into the receptacle at the other side of the piston, a hollow piston-rod communicating with the steam-chamber and extending through the body of oil and one end of the receptacle, a valve at the outer end of the piston communicating with an alarm device, and an operating arm for said valve projecting to one side thereof; together with a needle-valve and sight-feed in the feed pipe adjoining the receptacle, a cut-off valve in said feed pipe beyond the needle-valve and sight-feed, and an operating-arm for the cut-off valve having an upturned end in the path of the operating arm for the valve at the outer end of the piston-rod, substantially as shown and for the purpose set forth.

1,395,175. MERRY-GO-ROUND. JOSEPH L. CHINN, West Huntington, W. Va. Filed Feb. 18, 1920. Serial No. 359,754. 2 Claims. (Cl. 46—27.)

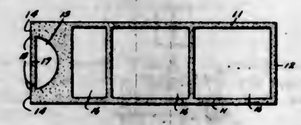
1. An amusement apparatus having a rotatable frame, inner and outer rows of depending bars thereon, a track

intermediate the rows, cars movable on the track, means connecting the cars to said bars, and a platform joining



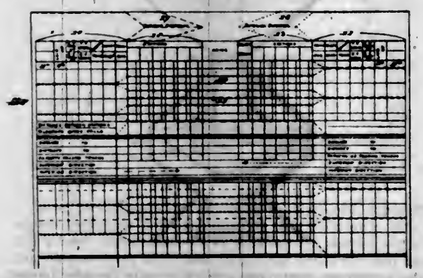
the bars of the inner row to dually serve to brace the structure and as a walk for the conductor.

1,395,176. HOLLOW TILE. JACOB VOORHIS CLOSE, Norwalk, Conn. Filed Mar. 24, 1920. Serial No. 368,293. 2 Claims. (Cl. 72—41.)



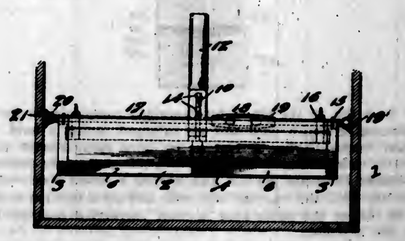
1. A building tile having a plurality of differently shaped vertical openings, sundry of the openings having one end wall recessed, the opening at one end of the tile having its outer end wall provided with wire cuts to permit its removal to form a recess at the end of the tile, the side walls of the openings having a recessed end wall being provided with wire cuts, whereby a number of differently shaped units can be formed from the tile, each having a recess in one end.

1,395,177. TRAIN-SHEET. HARVEY J. DAY and GILBERT J. FINN, Eau Claire, Wis. Filed May 19, 1920. Serial No. 382,458. 1 Claim. (Cl. 283—32.)



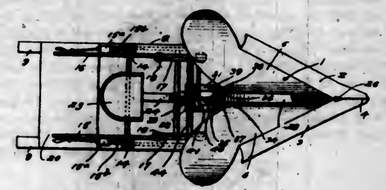
A train sheet having vertical lines defining terminal vertical columns and intermediate vertical columns, the said terminal columns having indicia representative of the terminals of a railroad group or system and the intermediate columns bearing a general designation indicative of the fact that the said intermediate columns are arranged for progressive designation to represent intermediate stops between the terminals, indexes at the top of the sheet distinguishably designated, and a plurality of horizontal lines intersecting the columns and distinguishably designated in the same manner as the indexes and identifying the indexes with the columns, all the columns being sub-divided for the terminal columns to receive trains data and the intermediate columns to receive station data.

1,395,178. WASHING-MACHINE. WILLIAM E. DENIS, New Haven, Conn., assignor to Den-Hart Manufacturing Company, Incorporated, New Haven, Conn. Filed Mar. 3, 1921. Serial No. 449,359. 8 Claims. (Cl. 259—101.)



1. In combination with a receptacle or tub, a washing machine comprising an agitating element and an adjustable means for mounting and clamping said element in the receptacle or tub, said mounting forming a support upon which the agitating element is suspended and is capable of a rocking movement.

1,395,179. PLOW. JOHN M. DOERNER, St. Cloud, Minn. Filed Oct. 11, 1919. Serial No. 330,008. 1 Claim. (Cl. 37—5.)



A snow plow comprising a sled structure, a plow pivoted to said sled structure and having a pair of wing portions converging toward their forward ends, means for varying the pitch of said plow, a pivot rod secured to the sled structure, a pivot rod secured to the wings of the plow, runners having their ends looped and surrounding said rods and located forwardly of the sled structure and between the wings of the plow, a lever pivoted to the plow, links pivoted to the lever and to the runners for forcing the latter into engagement with the ground to elevate the plow.

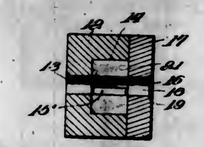
1,395,180. MANICURING IMPLEMENT. WILLIAM BENTON ETZWEILER, Penbrook, Pa. Filed Feb. 18, 1921. Serial No. 446,038. 2 Claims. (Cl. 30—23.)



1. A manicure implement comprising a plate having a pair of longitudinally extending ribs arranged on each face thereof, spaced laterally from each other and from the side edges of the plate, the opposed faces of said ribs

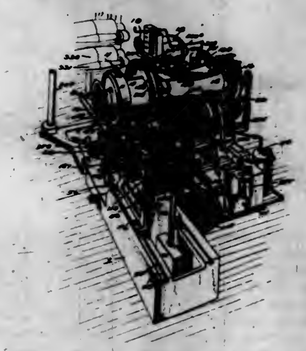
being of different widths, the wider face of each rib having a filing surface with a guard extending at right angles from the base thereof, the narrower face being plain and having a filing surface extending at right angles from its base, said plain face of said rib forming a guard for the filing surface at its base.

1,395,181. DIE FOR MAKING SPOKE-NIPPLES. JAMES H. GRAHAM and MAHLON S. FOLEY, Torrington, Conn., assignors to The Torrington Company, Torrington, Conn., a Corporation of Connecticut. Filed Oct. 20, 1917. Serial No. 197,643. 2 Claims. (Cl. 76—90.)



1. A die of the character described comprising a body portion having a bore and an enlarged recess, a back in said recess having a registering bore formed with flat walls terminating in beveled ends, and a member resting against the body portion and having a round bore registering with the angular bore and having a beveled outer end, all of the parts held in their correlated position by a die assembly.

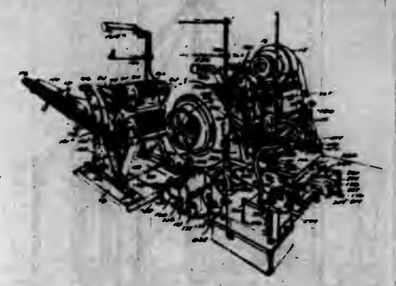
1,395,182. TIRE-MAKING MACHINE. WILLIAM B. HARSEL, Akron, Ohio, and EDWARD NALL, deceased, Akron, Ohio; Edith Alice Nall, Cuyahoga Falls, Ohio, executrix of Edward Nall, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 3, 1917. Serial No. 200,186. 93 Claims. (Cl. 154—10.)



1. A tire-making machine including a tire-building core, means for rotating the core, automatic means for stopping the same after it has accomplished a predetermined rotation, fabric-pressing devices operatively associated with the core, and means for positioning the pressing-devices toward and then effecting their operation on the core while the latter is in continued rotation.

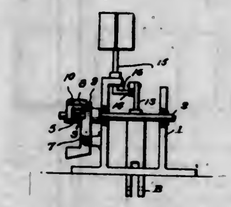
1,395,183. TIRE-MAKING MACHINE. WILLIAM B. HARSEL, Akron, Ohio, and EDWARD NALL, deceased, Akron, Ohio; Edith Alice Nall, Cuyahoga Falls, Ohio, executrix of Edward Nall, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 3, 1917, Serial No. 200,185. Renewed Nov. 18, 1920. Serial No. 425,026. 94 Claims. (Cl. (154—10.)

1. A tire-making machine including a presser-supporting carriage, mechanism for actuating the carriage for a to-and-fro movement, a presser-member movable on the carriage, fluid-pressure means operable independently of the carriage-actuating mechanism for moving the member on



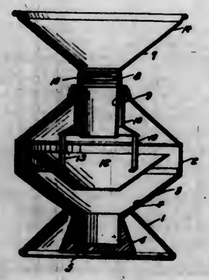
the carriage in one direction, and fluid-pressure means operable independently of the carriage-actuating mechanism and of the first mentioned pressure-means for returning the member to its initial position.

1,395,184. SWITCH-STAND. LEWIS HERSH, Ironwood, Mich. Filed July 10, 1920, Serial No. 395,286. Renewed Aug. 12, 1921. Serial No. 491,874. 5 Claims. (Cl. 246—393.)



1. A switch operating mechanism comprising a shaft; means for locking the shaft in either of its two positions, a foot operated means for releasing the shaft and simultaneously operating the same.

1,395,185. SPITTOON. VASSER C. HOLMAN, Nixon, Tex. Filed May 26, 1921. Serial No. 472,754. 4 Claims. (Cl. 4—38.)



1. A spittoon comprising a body, a cover therefor having a centrally disposed opening in its top, a collar depending from the top of the cover and surrounding the opening therein and provided at its lower end with a conical flange and a conical deflector disposed within the body between the bottom thereof and the said conical flange at the lower end of the collar.

1,395,186. APPARATUS FOR TIGHTENING LEAKAGES IN AND ABOUT BOILER-TUBES AND THE LIKE. JOHAN MARIUS JOHANSEN, Trondhjem, Norway. Filed Jan. 12, 1920. Serial No. 350,774. 3 Claims. (Cl. 137—76.)



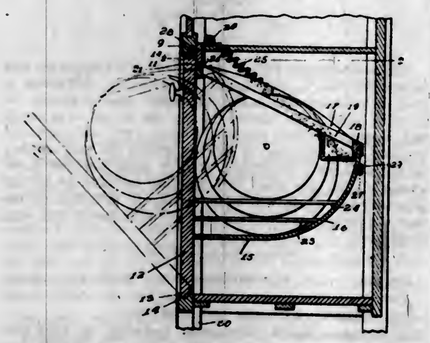
1. In an apparatus for tightening leakages and the light, a tightening plug, consisting of two halves, one half of the tightening plug being pivotally mounted at the front end of a bar, adapted to be introduced through a boiler tube, while the other half of the plug is hinged at its circumference to the first mentioned half of the plug.

1,395,187. HYDROCARBON-BURNER. ALFRED KAUFMAN, New York, N. Y. Filed Aug. 4, 1920. Serial No. 401,080. 3 Claims. (Cl. 158—82.)



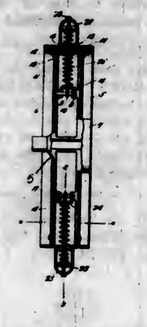
1. The herein described starter for hydrocarbon burners comprising a continuous fibrous body and spaced fibrous supporting legs connected with said body and having small capillarity relatively to said body.

1,395,188. PHONOGRAPH-RECORD HOLDER. ADAM KESSLERING, Quincy, Ill. Filed Mar. 1, 1920. Serial No. 362,497. 1 Claim. (Cl. 211—16.)



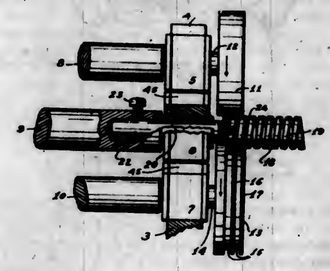
In a phonograph record cabinet, a record supporting means including a hinged door, a base forming a part of the record supporting means and having connection with the hinged door, said base extending inwardly and being curved rearwardly and upwardly, partitioning members having one of their respective ends connected to the hinged door, a bar embracing the upper edge of the inwardly extending base, said partitioning members having connection with the bar, and means disposed within the cabinet and connecting the hinged wall and base for supporting records at various levels.

1,395,189. VEHICLE-WHEEL. EDWARD GEORGE KOLLASCH, Browning, Mo. Filed July 19, 1919. Serial No. 312,092. 1 Claim. (Cl. 152—44.)



In a wheel of the class described, the combination with a rim and a tire mounted on said rim, of a metallic band having a plurality of openings therein, inturned circumferential flanges formed integrally with said band adjacent to said openings, flat ring members secured to opposite sides of said inturned flanges, a hub disposed within said band, an annular flange formed integrally with one side of said hub, engaging one of said ring members and provided with inwardly directed teats having openings therethrough, an annular flange formed integrally with the opposite side of said hub, engaging the opposing ring member and provided with inwardly directed teats having threaded orifices therein, headless bolts passing through the openings in the first mentioned teats and engaging the threads of the orifices, a plurality of outstanding circular flanges formed integrally with said band around the openings therein, cup-shaped casings engaging said flanges and inclosing said openings, a plate disposed in each of said casings and having openings therein, U-shaped members carried by said headless bolts, extending through the openings in said band and secured to said plates, bolts disposed between the arms of the U-shaped members, passing through said plates and secured to said casings, a plate secured to one end of each bolt, a helical spring surrounding each U-shaped member and exerting a pressure between said plates and tangentially arranged spokes secured to said band and connected to said rim aforesaid.

1,395,190. COILING-MACHINE. THOMAS F. LAMB, Mansfield, Ohio. Filed Nov. 4, 1919. Serial No. 335,702. 8 Claims. (Cl. 153—65.)



1. In a coiling machine, a frame, vertically alined guideways formed in said frame, journal boxes slidably fitted to said guideways, shafts journaled in said boxes in spaced relation to each other, rollers secured to two of said shafts in alinement with each other, means to impart

movement to said shafts in the same direction, a third shaft interposed between the first-mentioned shafts and in direct vertical alinement therewith, a mandrel fitted to the third shaft, means to impart movement to the third shaft in an opposite direction to that of the first-mentioned shafts as and for the purpose described.

1,395,191. PROCESS FOR MAKING THE COLORING OF NATURAL HORN WATER-RESISTING. MAX LAMBECK, Barmen, Germany. Filed Aug. 12, 1921. Serial No. 491,879. 1 Claim. (Cl. 8—5.)

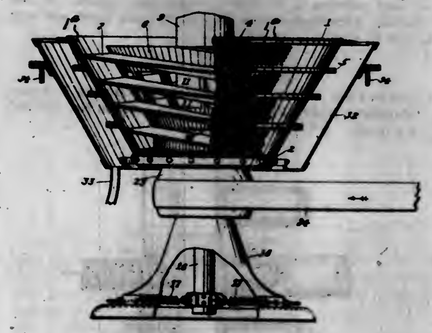
Process for making the coloring of natural horn water-resisting, which consists in exposing articles of natural horn to the action of formaldehyde.

1,395,192. GARTER. EMMA LANDGRAF, GEB. CARTHARIUS. Dresden, Germany. Filed Sept. 18, 1920. Serial No. 411,297. 1 Claim. (Cl. 241—5.)



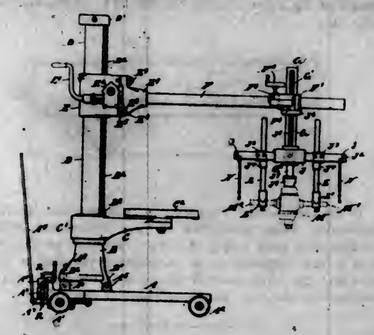
A garter comprising, in combination, an adjustable strap, a square metal buckle on one end of said strap having lateral members and a cross-member, a knob of the latter, and an elastic ribbon with one end attached to said cross-member and having a plurality of button-holes in its other end for engagement with said knob, said other end to be led beneath the lateral members of said metal buckle, substantially as and for the purpose set forth.

1,395,193. CENTRIFUGAL SEPARATOR. FRANK H. LINDENBERG, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Mar. 8, 1917. Serial No. 153,423. 6 Claims. (Cl. 210—69.)



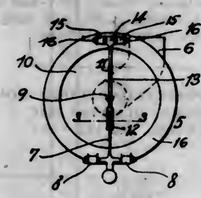
1. In a separator of the class described, the combination of an upwardly flaring conical perforated basket adapted to revolve about a vertical axis and mounted for universal rotation about a center in said axis, spiral vanes within the basket arranged to revolve differentially in the same direction as the basket to control the upward movement of material upon the surface of the basket, and means acting in the transverse plane of said center of rotation to cause the revolution of the basket and the vanes at speeds bearing a definite ratio.

1,395,194. PORTABLE RADIAL DRILLS. ERIC G. LINDER, New York, N. Y. Filed Apr. 19, 1919. Serial No. 291,219. 17 Claims. (Cl. 77—28.)



1. In an apparatus of the character described, a platform, a columbn hinged thereto and adapted to fold upon said platform in the direction of the length of the latter, means for holding said column in its vertical operative position, and a radius arm mounted on said column to fold in the direction of the length of the platform.

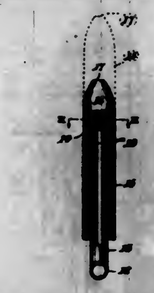
1,395,195. TONE-MODIFIER FOR SOUND-BOXES. HENRY LUBE, Astoria, N. Y. Filed Aug. 1, 1919, Serial No. 314,693. Renewed Mar. 14, 1921. Serial No. 452,235. 1 Claim. (Cl. 274—27.)



The combination with a sound box, its diaphragm and needle box, of a tone modifying element comprising a stem, a hinge portion in the upper end thereof, means for pivoting said hinge portion to the top of the said sound box, a springy clamp formed integral with the lower end of said stem, felt leaves secured within the said springy clamp, said tone modifying element being adapted to be swung on its said pivot into position on said needle bar adjacent the point where the latter is attached to the said diaphragm and to be moved outward away from said needle bar.

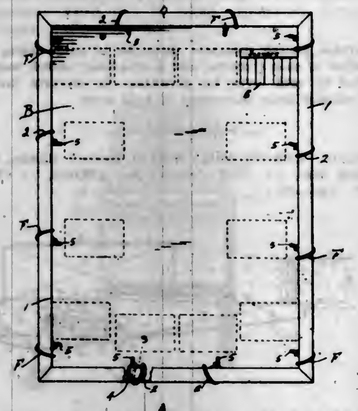
1,395,196. GAS OR LIQUID-FUEL BURNER. JOHN LUKASZEWSKI, Chicago, Ill. Filed Dec. 31, 1920. Serial No. 434,338. 4 Claims. (Cl. 158—10.)

1. A gas or liquid fuel burner including an inlet pipe adapted to have its outer end coupled by a flexible conduit to a fuel supply, a transverse manifold having its central portion rigid with and communicating with the inner end of said pipe, a plurality of burner pipes extending from the opposite side of the manifold in the same general direction as said first named pipe and arranged in spaced relations so as to pass upwardly between the grate bars of a stove grate, said burner pipes being provided with flanged upper ends having longitudinally extending openings therethrough, and a combined sleeve and burner tip mounted upon the flange of each burner pipe in spaced relation to the latter whereby air is admitted between the burner pipe and the sleeve and through the openings in the flange in the same direction as the flow of the fuel through the burner pipes, said combined sleeve



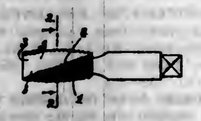
and burner tip having a restricted opening in the outer end thereof and providing a mixing chamber between said restricted opening and the open upper end of the burner pipe.

1,395,197. FILE. JOHN W. MCCANN, Pauls Valley, Okla. Filed June 19, 1920. Serial No. 390,186. 2 Claims. (Cl. 129—21.)



1. A file comprising, in combination, a body and a holding member carried thereby, said holding member being formed of a single length of material and having an end portion disposed through the body and extended outwardly over the face of the body to the margin thereof and then returned over the opposite face and extending through the body, said strand being then formed into a loop engaging the first face of the body, said strand being extended from the loop to afford a receiving hook.

1,395,198. SCREW-CUTTING TAP. JOHN MCFARLANE, Broomhill, and DUNCAN CLELLAND, Clydebank, Glasgow, Scotland. Filed Sept. 26, 1919. Serial No. 326,560. 2 Claims. (Cl. 10—141.)



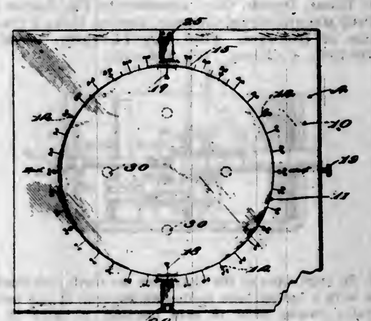
2. A screw-cutting tap having a plurality of spiral flutes cut in a direction contrary to the thread of the tap, the leading face of each flute constituting in cross section, a tangent to the following face at a point where the latter meets a line joining the center of curvature thereof with the center of the tap, substantially as described.

1,395,199. EYEGLASS-MOUNTING. FREDERICK C. MERRY, Kansas City, Mo., assignor to Merry Optical Company, Kansas City, Mo., a Corporation of Missouri. Filed June 6, 1921. Serial No. 475,274. 8 Claims. (Cl. 88—42.)



1. An eye-glass mounting comprising a part to be secured to a lens, parallel jaw members to receive the lens between them, tensioning means for the jaw members, and a cover plate carried by the tensioning means to cover the outer jaw member.

1,395,200. DRAWING-BOARD. LEON W. MOORE, Santa Maria, Calif. Filed Mar. 17, 1919. Serial No. 283,111. 3 Claims. (Cl. 33—46.)



1. A drawing board of the character described, comprising a straight edge section having a circular center opening, a center section shaped to fit the opening and revoluble therewithin, said straight edge section having concentric degree marks of a circle thereon and said center section being provided with indicators at diametrically opposite points thereof, and foldable sights carried by the straight edge section for alinement in the direction of a straight line joining said points.

1,395,201. GAS-TESTING APPARATUS. GEORGE G. OBERFELL and ALBERT M. BALLARD, Tulsa, Okla. Filed Apr. 27, 1920. Serial No. 377,029. 9 Claims. (Cl. 73—51.)

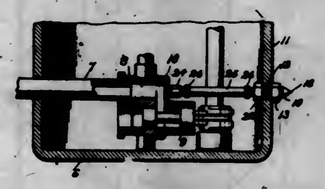
1. A method of testing a gaseous mixture to determine the specific gravity of said mixture, which method consists of forcing air and gas alternately into a chamber, placing the air and gas alternately under pressure, allowing the gas or air in the chamber to escape through an orifice, indicating the decreases in pressure within the chamber as the gas or air escapes, noting the time re-

quired for dissipation of said gas or air pressure between desired pressure limits, and calculating the specific gravity



from the relation between the times required for dissipation of gaseous mixture pressure and dissipation of air mixture pressure through the same pressure limits.

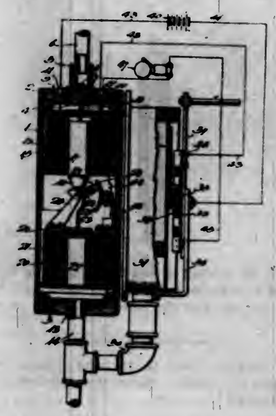
1,395,202. APPARATUS FOR BLOWING BORES OF ROCK-DRILL STEELS. EDWARD L. OLDHAM and JOHN L. BARRA, Denver, Colo., assignors to The Denver Rock Drill Manufacturing Company, Denver, Colo., a Corporation of Delaware. Filed July 14, 1919. Serial No. 310,708. 4 Claims. (Cl. 284—18.)



4. In apparatus of the character set forth, the combination with a hollow base having an opening in one wall, of a valve casing fixed in said opening, a valve in said casing having a projecting stem provided with a delivery bore controlled by the position of the valve, said stem having a tapered nozzle adapted to enter the bore of a drill steel, a coupling nipple engaged in the opening of the wall, motive fluid supply means within the base, and a flexible hose connection between the supply means and the coupling.

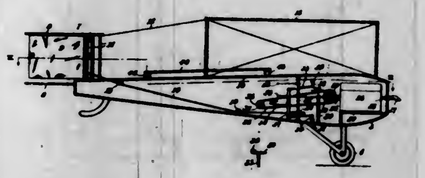
1,395,203. ELECTROMAGNETIC VALVE. AXEL M. OLSEN, East Orange, N. J. Filed July 10, 1919. Serial No. 309,934. 4 Claims. (Cl. 137—139.)

4. A device of the class described comprising a casing having a fluid inlet and a fluid outlet, a valve controlling passage of fluid through the inlet, an electro-magnet in said casing having a core constituting weight means for holding said valve in a closed position, a second electro-magnet in said casing, a support, a lever pivoted intermediate its length to said support between said magnets and having the core of the second magnet suspended from one end portion to normally retain the lever in set position with its second end portion supporting the core of the first magnet in a raised position with the valve open, the second magnet when energized moving said lever out of locking engagement with the first core to permit the latter to drop and close said valve and engage the lever to lock the lever in the adjusted position with the core of the second magnet raised, electric circuits for said magnets,



removable switch members mounted in said casing and included in said circuits, and a co-acting switch member carried by said lever for breaking the circuits through said magnet upon movement of said lever.

1,395,204. AEROPLANE. NICK G. PAPPAS, Hanna, Wyo. Filed Mar. 17, 1921. Serial No. 453,056. 1 Claim. (Cl. 244—29.)



In an aeroplane, a pair of superposed horizontal shafts, a fuselage having said shafts horizontally journaled therethrough, planes fixed upon the ends of said shafts at opposite sides of said fuselage, means operable from within the fuselage for simultaneously rotating said shafts in the same direction for tilting said plane, said means for simultaneously rotating the shafts including oppositely extending crank arms fixed to said shafts, a vertical lever having its intermediate portion pivoted upon a horizontal axis, a link connecting each end of said lever with one of said crank arms, and means to rock said lever.

1,395,205. VEHICLE-TIRE FASTENER. WILLIAM H. PARHAM, Knoxville, Tenn., assignor to Parham Auto Patents Corporation, Knoxville, Tenn., a Corporation of Delaware. Filed May 21, 1920. Serial No. 383,121. 7 Claims. (Cl. 152—6.)

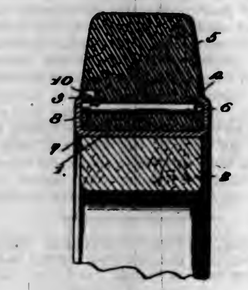
7. In a fastening device for resilient tires, the combination with a channel rim having overhanging portions, of a resilient tire arranged within said rim having a plurality of sectional cross bars, each cross bar being

formed of two sections, one section being slidably mounted in respect to the other, the slidably mounted section being



provided with an instrument engaging member for moving said section into position for inserting or removing the tire from the rim.

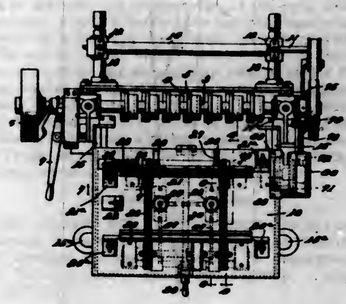
1,395,206. VEHICLE-TIRE FASTENER. WILLIAM H. PARHAM, Knoxville, Tenn., assignor to Parham Auto Patents Corporation, Knoxville, Tenn., a Corporation of Delaware. Filed July 27, 1920. Serial No. 399,380. 5 Claims. (Cl. 152—6.)



5. In a tire fastener, the combination with a channel rim provided with annular grooves, of a resilient tire mounted in said rim, and transversely arranged fastening devices slidably mounted in the base of the tire, said fastening devices being provided at one of their ends with enlargements and lugs extending outwardly, said fastening devices being capable of being moved in position to allow the tire to be removed from the rim, said fastening devices being normally held in position to fasten the tire in the channel rim by the resiliency of the tire.

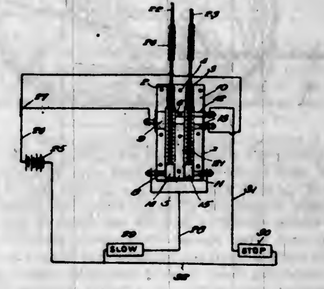
1,395,207. SLITTER-FEED. DANIEL P. ROBINSON and JOHN COYLE, Baltimore, Md., and ALFRED L. KRONQUEST, Chicago, Ill., assignors to Continental Can Company Inc., Syracuse, N. Y., a Corporation of New York. Filed July 3, 1919. Serial No. 308,614. 17 Claims. (Cl. 271—55.)

1. A feeding mechanism for slitter machines including in combination, a support for the sheets, continuously moving devices for delivering the sheets to a point closely adjacent the slitter rolls, rectifying devices, supports traveling in timing with the delivering devices on which said rectifying devices are mounted, and means for moving



the rectifying devices on their supports for engaging and moving the sheet forward into the slitter rolls.

1,395,208. SIGNAL SYSTEM. ROY E. SAGLE, Roseville, Ohio. Filed Dec. 27, 1919. Serial No. 347,880. 5 Claims. (Cl. 177—337.)



1. A signal system for automobiles or the like, including two independent signals, circuits respectively controlling said signals, a switch member adapted to control said circuits, said switch member being operated by manually actuated members for the control of the vehicle, said switch member being responsive in the actuation of either of said control members to govern one signal circuit alone and responsive in the actuation of both said control members to govern the other circuit alone, whereby in the actuation of either of said control members for the vehicle one signal only is operated and in the actuation of both said control members for the vehicle the other signal only is actuated.

1,395,209. SPLITTING-WEDGE. PAUL SCHULTZ, Middleville, N. Y. Filed Mar. 7, 1921. Serial No. 450,178. 1 Claim. (Cl. 254—104.)

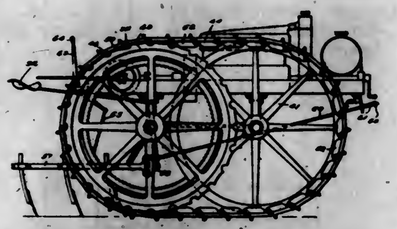
A splitting wedge comprising a body having two of its

longer sides parallel and its other two sides converging toward one end, the smaller end of the body being under-



cut to form shoulders and having the portion therebelow flared to a width approximately that of the body.

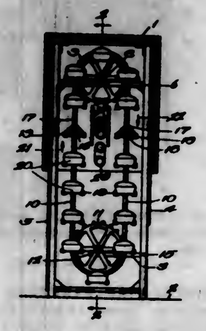
1,395,210. TRACTOR-CULTIVATOR. ROY C. SHELTON, Nashville, Tenn. Filed Oct. 1, 1919, Serial No. 327,726. Renewed Sept. 14, 1921. Serial No. 500,669. 1 Claim. (Cl. 305—8.)



In a tractor cultivator, a traction wheel arranged on each side of the tractor, each embodying a pair of spaced fellies, said fellies being provided with transverse alined grooves, an idler wheel arranged on each side of the tractor, each embodying a single felly, the fellies of said idler wheels extending between the fellies of said traction wheels and being spaced transversely therefrom, and a flexible endless tread surrounding each side of said wheels and embodying links, each of said links comprising a flat rectangular body portion of a width substantially equal to that of the traction wheel, said body portion being provided upon its inner face with spaced longitudinal tracks adapted to receive said idler wheels therebetween, the spaced fellies of said traction wheels being adapted to receive said tracks therebetween, said body portion being further provided on one end with a pair of spaced ears, said ears projecting inwardly of the body portion and being provided with openings, a pair of relatively wide ears carried by the opposite end of said body portion and projecting inwardly therebeyond, the inwardly projecting portions of said last named ears being adapted to be received in the transverse grooves of said traction wheels, said first named ears being received between the last named ears of the next link of the chain, and a pivot pin passing through said ears.

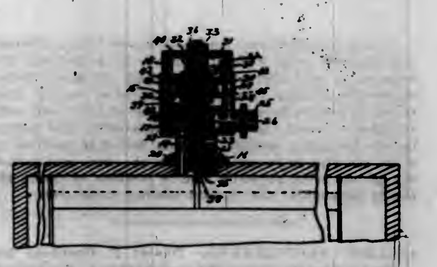
1,395,211. BAKING APPARATUS. FREDERICK T. SNYDER, Oak Park, Ill., assignor to S. D. Flood, Chicago, Ill. Filed July 30, 1919. Serial No. 314,258. 23 Claims. (Cl. 107—57.)

1. Baking apparatus including a baking chamber having an entrance opening in its bottom and normally permanently closed from direct communication with the external air at all other portions thereof; a source of baking heat positioned above said entrance opening; and a proofing chamber located below said source of baking heat and below said baking chamber and normally in communication with the baking chamber through the entrance opening and forming a continuation of the latter and normally permanently closed from communication with the external air except at its bottom.



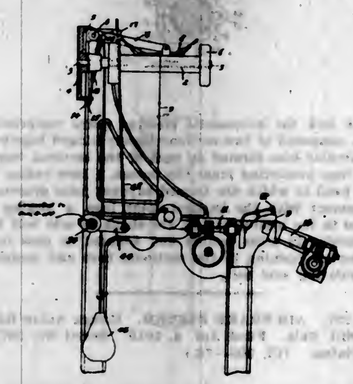
18. Baking apparatus including a baking chamber having an entrance opening in its bottom and normally permanently closed from direct communication with the external air at all other portions thereof; a source of baking heat positioned above said entrance opening; a proofing chamber located below said source of baking heat and normally in communication with the baking chamber through the entrance opening of the latter and normally permanently closed from communication with the external air except at its bottom; carriers for the material to be baked; conveying mechanism for causing said carriers to travel through an orbit inclosed by the baking and proofing chambers, the walls of the chambers being arranged with relation to their carriers to enable the latter to move without disturbance of the air; and means below said source of heat for driving said conveying mechanism.

1,395,212. FUEL-SUPPLY-CONTROL MECHANISM. ALFRED E. WALDEN, Detroit, Mich. Filed Feb. 7, 1920. Serial No. 356,991. 6 Claims. (Cl. 158—36.)



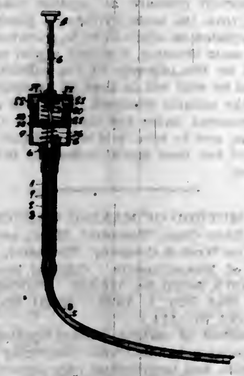
1. In a fuel supply control system, the combination with a compartment adapted to receive liquid fuel, and a float therein, of a valve movable to place the interior of said compartment under atmospheric pressure or under pressure lower than atmospheric pressure, and a second valve engageable with and operated by said float for controlling the movement of said first-mentioned valve.

1,395,213. BALLING-MACHINE. ALEXANDER GROUNDWATER WALLS, Paisley, Scotland, assignor to Walter McGee & Son, Limited, Paisley, Renfrewshire, Scotland, a Corporation of the United Kingdom of Great Britain and Ireland. Filed Feb. 11, 1916. Serial No. 77,750. 1 Claim. (Cl. 242—156.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



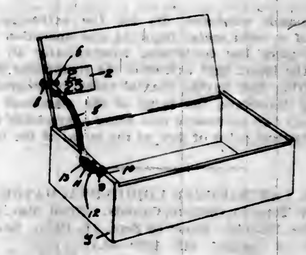
In an automatic balling machine, the combination with a bobbin carrier sustaining a bobbin from which the yarn is unwound, of a drag shoe actve on the yarn during the unwinding operation to apply tension to the yarn in opposition to the unwinding movement, a normally inoperative brake lever, and means operative on the knocking off of the machine for causing said brake lever to engage said drag shoe, whereby said drag shoe is caused to bear with increased pressure on the yarn to arrest the bobbin.

1,395,214. CAMERA-SHUTTER RELEASE. ARTHUR S. WARNE, Vancouver, British Columbia, Canada. Filed July 21, 1919. Serial No. 312,328. 5 Claims. (Cl. 235—91.)



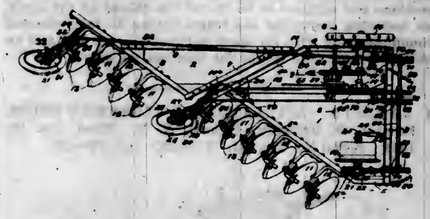
1. A means for indicating, said means comprising the combination with a stem rectangular in cross section, said stem having a partial twist, a hollow casing provided with a viewing aperture through the cover of which casing said stem is endwise movable with provision preventing rotation of it in relation to the casing, an indicator cylinder rotatably mounted within the casing and having around its periphery numbers corresponding to the number of exposures of the camera film, the upper edges of said cylinder having a corresponding number of notches designed to engage a retaining detent projecting from the upper end of the casing and engaging projections across the upper face of the closed end of the cylinder, a spring tending to maintain the plunger stem at the outer limit of its movement, a spring holding the notched upper edge of the indicating cylinder in engagement with the projections from the casing, a nut washer apertured to fit the endwise movable stem and be partially rotated by its twist, said nut washer having ratchet projections corresponding in number to the indicating numbers of the cylinder and adapted to engage the projections in the closed end of the indicating cylinder, and a spring tending to hold the nut washer with its ratchet face in engagement with the radial projections of the indicating cylinder.

1,395,215. CIGAR-BOX-LID HOLDER. WILLIAM M. ANDERSON, Minneapolis, Minn., assignor to Ideal Products Company, Minneapolis, Minn., a Copartnership. Filed Nov. 11, 1920. Serial No. 423,258. 7 Claims. (Cl. 217—61.)



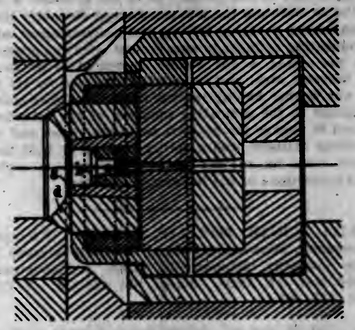
1. A cigar box lid holder comprising a spring bar having at one end a lid engaging fork and at its other end a box engaging fork, and a spring finger independent of the box-engaging fork and having a box engaging anchor barb.

1,395,216. GANG-PLOW. JOHN B. BARTHOLOMEW, Peoria, Ill., assignor to Avery Company, Peoria, Ill., a Corporation of Illinois. Original application filed Oct. 12, 1916, Serial No. 125,288. Divided and this application filed May 4, 1917. Serial No. 166,368. 9 Claims. (Cl. 97—67.)



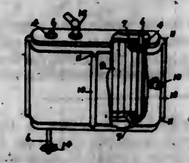
1. In a gang plow, the combination of a frame, a series of plowing disks connected to the frame, two wheels arranged to run on the top of the land for supporting the forward parts of the frame, the extreme front disks forming furrows outside of both land wheels, and arranged to rise and fall in horisontal parallelism with the rear disks, a wheel for supporting the rear parts of the frame, and means for adjusting one of the forward wheels angularly and holding it in adjusted position to compensate for the side thrust of the said projecting front disks.

1,395,217. CASCADE EXTRUSION-DIE FOR COLD OR HOT SPINNING OF METALS. LOUIS HIPPOLYTE EDMOND BRIOT, Paris, France. Filed Dec. 18, 1920. Serial No. 431,687. 5 Claims. (Cl. 207—17.)



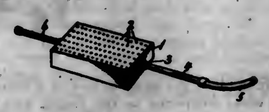
1. A cascade extrusion die for the extrusion under pressure of a solid metal ingot at one operation into a single one-piece bar containing substantially all of the metal of the ingot, said extrusion die comprising a series of interfitting dies having coaxial bores of progressively-decreasing diameters, the ratio of the diameters of the bores of any two successive dies being appreciably greater than the critical point of flow of the metal of the ingot.

1,395,218. CENTRIFUGAL LIQUID-EVACUATOR. JOHN A. BELT, Toronto, Ontario, Canada. Filed Mar. 3, 1917, Serial No. 152,446. Renewed Sept. 19, 1921. Serial No. 501,830. 3 Claims. (Cl. 103—43.)



1. In a device of the class described, the combination of a frame composed of two similar sections, holding bars securing said sections together, a shaft journaled in each section, a sectional side inclosing the space between the sections and adapted to be moved thereabout by the shaft, an inclosing casing for the frame having an inlet opening communicating with the space between the sections and an outlet opening, and means for rotating the shaft.

1,395,219. APPARATUS FOR CLEANSING FELTS. EDWARD D. BENNETT, Pulaski, N. Y. Filed Apr. 29, 1919. Serial No. 293,484. 1 Claim. (Cl. 92—50.)



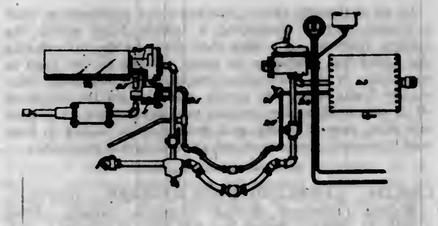
An apparatus for cleaning paper machine felts comprising a substantially rectangular box having a flat foraminous side and means for conducting a cleansing fluid under pressure into said box and through the foramina thereof, said box being portable and movable along and against the side of the felt opposite that into which the material to be removed enters.

1,395,220. AUTOMOBILE-LOCK. FLETCHER O. BOSWELL, Philadelphia, Pa. Filed Jan. 21, 1919. Serial No. 272,260. 4 Claims. (Cl. 70—90.)



1. A lock for automobile steering gears comprising a clamp composed of two sections loosely hinged together, a semicircular boss formed on each of the sections, bayonet joint lugs projecting from the bosses, a lock casing having a head in which are formed bayonet joint grooves for engagement with the bayonet joint lugs, a locking bolt carried in the locking casing, the shank of said bolt being rectangular in cross section and adapted to pass into a rectangular opening in the sectional boss and means for manipulating said bolt.

1,395,221. AIR-BRAKE SYSTEM. HENRY ALLIS BRYAN, Madill, Okla. Filed Apr. 4, 1919. Serial No. 287,613. 3 Claims. (Cl. 303—76.)

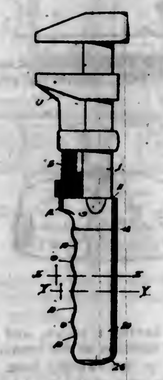


1. A holding valve having a main chamber directly open to main reservoir pressure, an exhaust chamber open to the exhaust from the brake cylinder, a piston rod in said chambers, a piston on said rod to be operated by the pressure in the main chamber, a second piston on said rod to be operated by the pressure in the exhaust chamber, a valve carried by said rod to close an atmospheric exhaust port from the exhaust chamber, when the rod is at the limit of movement under the influence of the first mentioned piston, and to open said atmospheric exhaust port when the rod has been moved under the influence of the second piston.

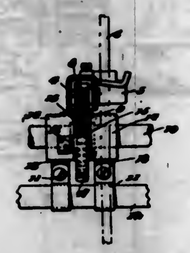
1,395,222. METHOD OF MAKING WRENCH-HANDLES. RUSSELL READ COES, Worcester, Mass., assignor of one-half to Coes Wrench Company, Worcester, Mass., a Corporation of Massachusetts. Original application filed July 24, 1919, Serial No. 312,923. Divided and this application filed July 1, 1920. Serial No. 393,230. 2 Claims. (Cl. 76—114.)

1. The method of making wrench-handles, which consists in forming a handle-frame comprising the neck-embracing ferrule, and longitudinal edge-supporting members integrally connected by laterally projecting transverse braces or cross-tie members disposed at intervals thereon with intervening spaces, providing a plurality of protuberances and depressions along the handle-frame; assembling and securing said handle-frame upon the wrench-bar shank, inclosing said shank and frame within a straight section of wrought-metal tubing of uniform gage and of a size suitable to fit the exterior of the frame members, then subjecting the assembled handle to pressure in dies, thereby

compressing the tubing rigidly upon the exterior of the outstanding member of the handle-frame and forcing portions of the tubular member inward into the intervening depressions to form finger-receiving corrugations in the exterior grip surface.



1,395,223. THREAD-SPINNING MACHINE. WILLIAM B. CONYNGHAM, Wilkes-Barre, Pa. Filed Oct. 27, 1920. Serial No. 420,005. 21 Claims. (Cl. 19—28.)



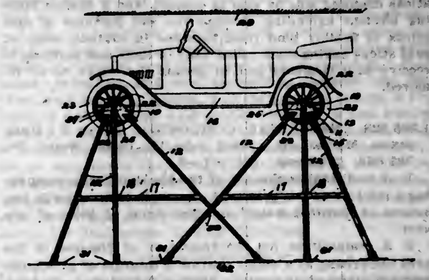
6. A combination with the feed shaft of a thread spinning machine having a spinning unit drive gear thereon of a fixed shield arranged adjacent the shaft and a thread cutter carried by said shield to cut the thread on its attempt to wind about the shaft.

1,395,224. FUEL-FEEDING DEVICE. JOSEPH C. COULOMBE, Lowell, Mass. Filed Jan. 15, 1916. Serial No. 72,198. 18 Claims. (Cl. 158—36.)

1. In a fuel feeding device having a suction chamber, a distributing chamber, a connection from the suction chamber to a source of suction, a connection from the suction chamber to a source of liquid supply, said distributing chamber open to atmospheric pressure; of a valve opening between the two chambers, a primary valve and a secondary valve controlling said opening, and means dependent upon the rise of liquid in the suction chamber for opening said valves.

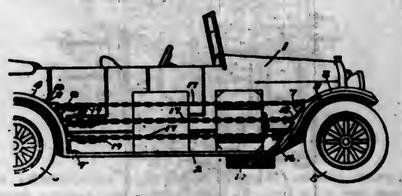


1,395,225. METAL DOUBLE-DECKING BUCK FOR AUTOMOBILES. EDWARD S. EVANS, Detroit, Mich. Filed Sept. 8, 1919. Serial No. 322,555. 10 Claims. (Cl. 248—41.)



1. In an automobile loading means, a support including a mounting means comprising a sheet metal head plate having a laterally extending hub receiving saddle in one edge thereof, and legs removably attached to the plate supportingly projecting from the opposite edge thereof when assembled for use.

1,395,226. ATTACHMENT FOR AUTOMOBILE RUNNING-BOARDS. THOMAS L. FAY, Seattle, Wash. Filed Sept. 13, 1920. Serial No. 409,773. 3 Claims. (Cl. 224—29.)



1. In a baggage carrying attachment for automobiles, the combination with a running board and forward and rearward mud guards continuing therefrom, of bars secured to extend along the outer edges of said mud guards

having sockets at spaced intervals therein, a plurality of chains having ends equipped with rings that are slidable along one of said bars and adapted to be seated in said sockets, and having opposite end portions extendible about the other bar and adapted to be seated in its sockets to hold the chains at adjustably spaced distances, and hooks at the free ends engageable with links of the chains to secure these ends about the latter bar for the purpose set forth.

1,395,227. PAD OR MAT. HUGO FRESEN, Geneseo, N. Y. Filed Feb. 24, 1920. Serial No. 360,552. 2 Claims. (Cl. 68—27.)



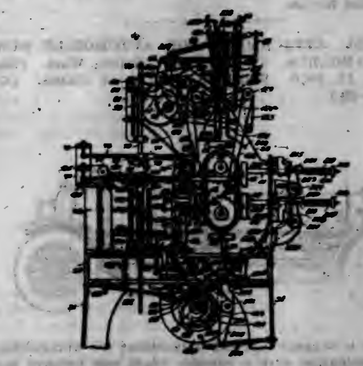
1. A flexible device of the kind described comprising sticks disposed side by side in contact, and a flexible binding element extending through the end portions of said sticks to flexibly bind them together in contact, some of said sticks having open ended slots in their end portions to receive said elements and to permit the sticks to be removed.

1,395,228. MEDICINAL COMPOUND. LOUIS J. HAISSIKOS, Moline, Ill. Filed July 17, 1920. Serial No. 397,053. 2 Claims. (Cl. 167—9.)

1. A medicinal compound of the kind set forth, comprising a mixture of two grains of pilocarpin hydrochlorid, two ounces of distilled water, and five drops of juice of *uva ursi*.

2. A composition for the treatment of diseases of the eyes comprising as a major portion a solution of pilocarpin hydrochlorid and as a minor portion the juice of *uva ursi*.

1,395,229. RECEPTACLE-MAKING MACHINE. HARRY A. INMAN and WILLIAM H. INMAN, Newark, N. Y. Filed Apr. 26, 1920. Serial No. 376,811. 55 Claims. (Cl. 93—44.)



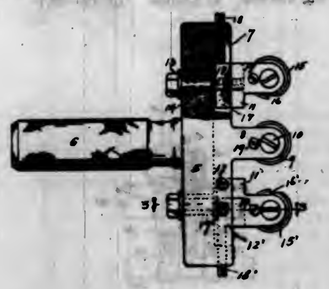
1. In a receptacle making machine, a plurality of spaced blank folding devices, a movable mandrel for holding and shaping blanks having a continuous movement past certain of said devices to bring a blank into folding engagement therewith and having a dwell in its movement adjacent others of said devices during folding operations by the latter, and actuating means for said mandrel and said other folding devices.

1,395,230. KNITTED CAP. DAVID KARGES, Milwaukee, Wis. Filed Mar. 7, 1921. Serial No. 450,249. 3 Claims. (Cl. 2—107.)



1. A knitted cap having a crown, and a band secured to the rear and side portions of the crown and adapted to be swung upwardly or downwardly from the lower margin of the crown, the ends of the band being rack knitted to form transverse extensions to provide ear muffs, and means carried by said crown for temporarily holding said ear muffs in a raised position when said band is adjusted to an upwardly extending position.

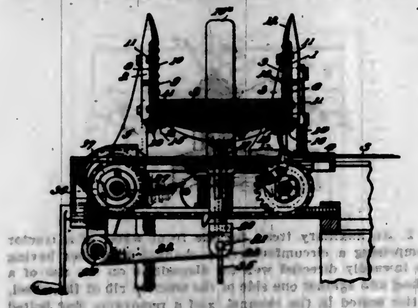
1,395,231. THREAD-GAGE. ROY A. KENYON, Newcastle, Ind. Filed July 14, 1920. Serial No. 396,113. 6 Claims. (Cl. 33—168.)



1. In a screwthread measuring device, the combination of a plurality of gage members each comprising a cylinder with screwthreaded periphery to receive the thread to be measured, the periphery of one of the gages being notched approximately the depth of its threads to a radial plane, said radial plane when the notched gage is in use being in a plane which is radial to a cooperating gage, and means for supporting the gages.

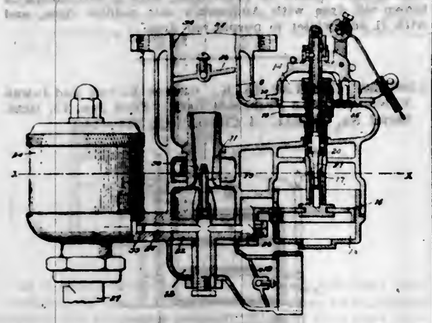
1,395,232. MAGAZINE AND SHEET-WITHDRAWING MECHANISM THEREFOR. ALFRED L. KNOWLTON, Chicago, Ill., assignor to Continental Can Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed July 2, 1919. Serial No. 308,474. 16 Claims. (Cl. 271—32.)

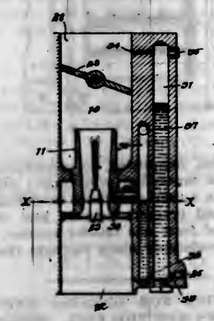
1. The combination of a magazine for supporting stacked sheets, and means for withdrawing the sheets from the bottom of the magazine, said magazine having means at spaced intervals for assisting in supporting the stacked sheets at points above the lower end thereof,



whereby the pressure of the stacked sheets on the lowermost sheet being withdrawn due to the weight of the stack is substantially uniform.

1,395,233. CARBURETER. FRANK C. MOCK, Chicago, Ill., assignor to Stromberg Motor Devices Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 28, 1915. Serial No. 46,774. 4 Claims. (Cl. 261—41.)





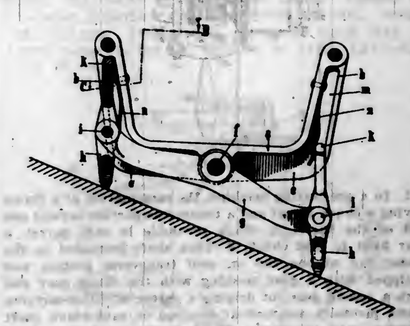
1. In a carbureter, a carbureting chamber having an air inlet and a mixture outlet, a throttle controlling said outlet, a constant level liquid fuel supply chamber, a fuel inlet for said carbureting chamber, a passageway leading from said fuel supply chamber to said fuel inlet and having a restriction therein, a well connected to said passageway between said restriction and said fuel inlet, said well, above the fuel level therein, being connected by a passageway for air only with the mixture outlet, whereby the partial vacuum applied to said well when the throttle approaches closed position causes liquid fuel to rise therein to a level above that of the fuel in the constant level chamber, the opening of the throttle reducing said vacuum and permitting said fuel to drop and feed to said fuel inlet.

2. In a carbureter, a carbureting chamber having an air inlet and a mixture outlet, a throttle controlling said outlet, a constant level liquid fuel supply chamber, a fuel nozzle extending into said carbureting chamber and fed from said supply chamber, a U-shaped well fed from said supply chamber, and a fuel nozzle leading from one arm of said well above the normal level of liquid fuel therein, said arm communicating with the atmosphere, and means subjecting the other arm to suction above the throttle to lift the fuel therein above the normal level, the reduction of said suction permitting a drop of the fuel in the last mentioned arm and a consequent rise of the fuel in the first named arm above the fuel nozzle leading therefrom.

3. In a carbureter, a carbureting chamber having an air inlet and a mixture outlet, a throttle controlling said outlet, a constant level liquid fuel supply chamber, a fuel nozzle extending into said carbureting chamber and fed from said supply chamber, a U-shaped well fed from said supply chamber, and a fuel nozzle leading from one arm of said well above the normal level of liquid fuel therein, said arm communicating with the atmosphere, a restricted connection between the other arm and atmosphere, means subjecting said other arm to suction to lift the fuel therein above the normal level, the reduction of such suction permitting a drop of the fuel level in said other arm and consequent flow of fuel to the first named arm and a rise in fuel level therein above the fuel nozzle leading therefrom.

4. In a carbureter, a carbureting chamber having an air inlet and a mixture outlet, a throttle controlling said outlet, a constant level liquid fuel supply chamber, a fuel nozzle extending into said carbureting chamber and fed from said supply chamber, a U-shaped well fed by a restricted passage from said supply chamber, a fuel nozzle leading from one arm of said well above the normal level of liquid therein, said arm communicating with the atmosphere, and means subjecting the other arm to suction to lift the fuel therein above the normal level, the reduction of said suction permitting a drop of fuel level in said other arm and a rise of the fuel level in the first named arm above the fuel nozzle leading therefrom.

1,395,234. CLIMBING-IRON. JOSEPH SELINGER-BALZER, Obersteinmaur, Switzerland. Filed Dec. 3, 1920. Serial No. 428,174. 1 Claim. (Cl. 36—62.)



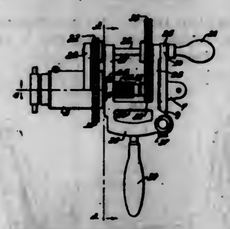
A climbing-iron comprising a bowed member having grooves at each end and adapted to serve as a foot-rest, a lever having a horizontal axis centrally of its ends mounted on said bowed member, and a pivotally mounted spur at each end of the lever and arranged to be guided in the grooves of said bowed member.

1,395,235. DENTAL AMALGAM OR ALLOY MIXER. BOHUSLAV STEIL, Chicago, Ill. Filed July 22, 1921. Serial No. 487,080. 2 Claims. (Cl. 259—75.)



1. The combination with a cylindrical frame having a laterally and radially extended arm provided with a slot disposed longitudinally with respect to said frame, of a cylindrical body rotatably mounted in said frame and having at one of its ends an external annular flange to co-act with the adjacent end of the frame, a centrally orificed filling located in the body for rotation therewith, a disk having a central opening surrounding a portion of said filling and secured to that end of the body opposite its flange, a segmental cam-block on the face of the disk adjacent the body and a spring pressed lever pivoted at one of its ends in the slot of the said arm and having at its other end spaced resilient clamping members for a container.

1,395,236. MACHINE FOR REPAIRING CUES AND THE LIKE. HENRY O. TAYLOR, Rockford, Ill. Filed Feb. 10, 1920. Serial No. 357,495. 13 Claims. (Cl. 144—205.)



1. In a cue-cutting machine, the combination of a frame having a chuck barrel and a transverse portion beyond one end of the barrel, a chuck revoluble in said barrel, a gear fixed to said chuck, a crank shaft journaled on the frame and at one end on said transverse portion and equipped with a gear meshing with the chuck gear and with a second gear for driving a cutter, a cutter-carrying frame pivotally mounted at one end on said crank shaft between said transverse frame portion and the chuck barrel, a cutter shaft journaled on said cutter-carrying frame and equipped with a cutter and a gear meshing with said cutter driving gear, and a handle on the outer end of said cutter-carrying frame, whereby the cutter may be moved into and out of cutting relation with a cue carried by said chuck.

1,395,237. TREAD FOR TRACTOR-WHEELS. HENRY B. TURNER, Salem, Calif. Filed Feb. 26, 1921. Serial No. 447,970. 3 Claims. (Cl. 301—39.)

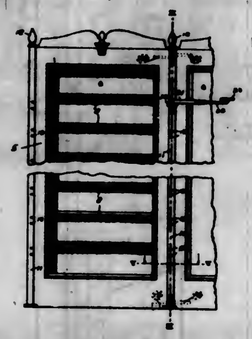


2. An auxiliary tread for the front wheel of a tractor comprising a circumferentially channeled member having an inwardly directed web for disposition on the rim of a wheel and against one side of the traction rib of the wheel, a tire seated in the channel, and a removable ring bolted to the web outwardly of the periphery of the rib and disposed on the rim and against the other side of the rib.

1,395,238. AZO DYE AND ITS PROCESS OF MANUFACTURE. ROBERT ARNOT, Zurich, Switzerland. Filed Oct. 12, 1920. Serial No. 416,517. 5 Claims. (Cl. 8—1.)

1. The diazonium compounds of retene which form with R salt reddish to violet dyes, with G salt brown to brown-red dyes with Andersen's salt reddish dyes, and with H acid violet to purple red dyes.

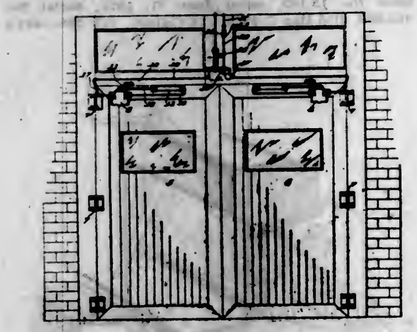
1,395,239. DISPLAY-RACK. GEORGE BAILEY and JAMES P. NIELSEN, San Francisco, Calif. Filed Jan. 13, 1920. Serial No. 351,611. 1 Claim. (Cl. 211—14.)



A display device, comprising, in combination, a series of frames, hinges connecting said frames together, said hinges mounted on a tubular member extending the length of the frames and brackets between said frames, said brackets supported from said tubular member, and adapted to swing approximately about the axes thereof.

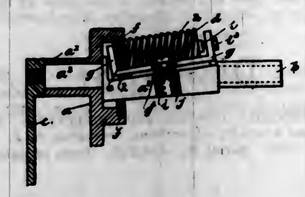
1,395,240. DEVICE FOR OPENING AND CLOSING GARAGE-DOORS AND THE LIKE. MYRON L. HANEY, Beloit, Wis. Filed Feb. 10, 1920. Serial No. 357,546. 6 Claims. (Cl. 268—9.)

1. In a door-check and closer device, the combination of a hinged door, a door-check and closer carried by the door and having an operating part, a connection between said operating part and a fixed support, whereby the door upon being opened will be closed and checked by said device, a fluid pressure device supported by the door, a connection between said fluid-pressure device and the operating part of the door-check and closer device, and means for causing



said fluid-pressure device to open the door through the agency of said operating part of the door-check and closer device.

1,395,241. PENCIL-SHARPENER. SAMUEL WHITEHEAD, Romford, England. Filed May 15, 1914. Serial No. 838,796. 1 Claim. (Cl. 120—96.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



In a pencil sharpener of the character described comprising a stationary and a revoluble member, an adjustable support for the cutter pivotally mounted upon said revoluble member, a screw connecting said support with said revoluble member, and a spring interposed between said support and said revoluble member, substantially as described.

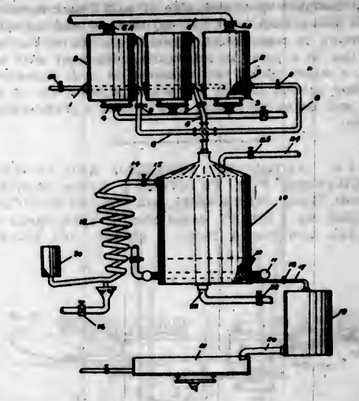
1,395,242. COLLOIDAL SUSPENSION OF POLYMERS AND PROCESS OF MAKING THE SAME. JOHN WARNE PHILLIPS, Chicago, Ill. Filed Mar. 6, 1919. Serial No. 281,067. 16 Claims. (Cl. 134—11.)

2. The process of forming a suspension of tung oil polymers which comprises dissolving tung oil in a solvent and polymerizing the dispersed oil.

REISSUES.

15,211. PROCESS FOR THE PRODUCTION OF ALCOHOL FROM GAS CONTAINING ETHYLENE. CLEBURNE A. BASORE, Auburn, Ala. Filed Sept. 2, 1921. Serial No. 498,161. Original No. 1,385,515, dated July 26, 1921, Serial No. 452,285, filed Mar. 14, 1921. 11 Claims. (Cl. 23—24.)

2. The hereindescribed process for the production of ethyl alcohol from a mixture of sulfuric acid and ethyl hydrogen sulfate, which consists in adding to said mixture water in amount equal to from 50 per cent. to 70 per cent. or the volume of the said mixture, subjecting the



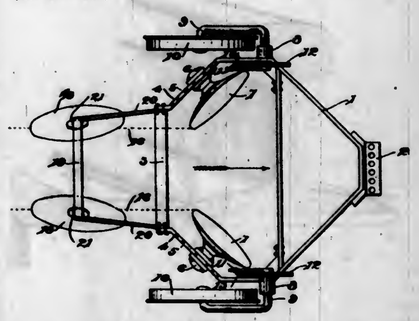
resultant reacting constituents to heat in a closed vessel, then distilling off the alcohol and water, and finally condensing the alcohol.

15,212. PRESS-BUTTON. ALFRED MANN, Barmen, Germany, assignor, by mesne assignments, to Waldes & Co., Inc., New York, N. Y., a Corporation of New York. Filed Feb. 2, 1920. Serial No. 355,785. Original No. 1,128,341, dated Feb. 16, 1915, Serial No. 698,830, filed May 21, 1912. 6 Claims. (Cl. 24—218.)



1. A press button comprising a stud member and a socket member or cap, the socket member being formed with an opening to receive the stud which is of approximately the same diameter as the largest part of the head of the stud and said socket member being formed also with slots, to receive a retaining spring, in a part of the cap which is of less diameter than the widest part thereof.

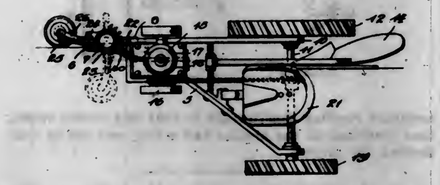
15,213. MACHINE FOR RIDGING LAND. VERNON E. PARRISH, Cupertino, Calif. Filed Aug. 23, 1921. Serial No. 494,684. Original No. 1,339,040, dated May 4, 1920, Serial No. 334,506, filed Oct. 30, 1919. 10 Claims. (Cl. 97—37.)



1. A machine for ridging land including a frame, plowing means mounted upon each side thereof and with-

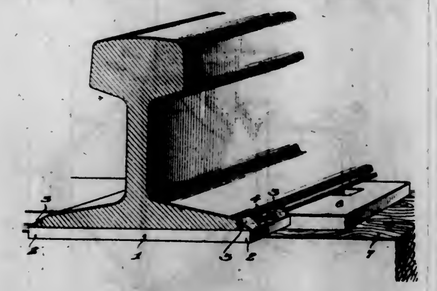
in the same and arranged to turn the plowed soil inwardly toward the draft line of the machine, a lever operatively mounted upon each side of said frame forwardly of said plows, each lever having its outer end extending backwardly in substantial parallel relation to the said draft line to a point in substantial alinement with said plows, a wheel operatively mounted on each backwardly extending portion of said levers and adjacent one of said plows, and means for locking each lever in a predetermined position.

15,214. AUTOMATIC STEERING AND CONTROL MECHANISM FOR TRACTORS. RALPH WHIPPLE, Detroit, Mich. Filed Aug. 31, 1921. Serial No. 497,381. Original No. 1,296,027, dated Mar. 4, 1919, Serial No. 265,146, filed Dec. 3, 1918. 3 Claims. (Cl. 97—81.)



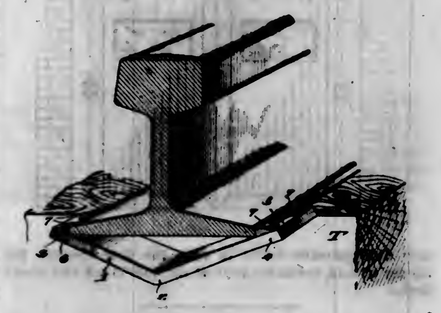
1. In combination with a tractor provided with a source of power and control means therefor, steering mechanism, a pilot device connected with said steering mechanism and adapted to travel in a furrow and to be held from turning by contact with the wall thereof, means for holding said pilot device against the furrow wall, and connections between the steering mechanism and the power control adapted to be actuated by the steering mechanism when the same is turned by said holding means as the pilot device turns from contact with the furrow wall.

15,215. WELDED RAIL-ANCHOR. BENJAMIN WOLHAUPTER, New Rochelle, N. Y. Filed Aug. 15, 1921. Serial No. 492,320½. Original No. 1,359,864, dated Nov. 23, 1920, Serial No. 404,427, filed Aug. 18, 1920. Reissue No. 15,131, dated June 21, 1921, Serial No. 466,595, filed May 3, 1921. 13 Claims. (Cl. 238—321.)



10. A rail anchor consisting of a body part extending across the rail base and welded to both flanges.

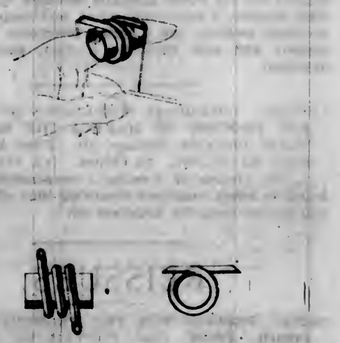
15,216. WELDED RAIL-ANCHOR. BENJAMIN WOLHAUPTER, New Rochelle, N. Y. Filed Aug. 15, 1921. Serial No. 492,321½. Original No. 1,369,808, dated Feb. 22, 1921, Serial No. 430,821, filed Dec. 15, 1920. Reissue No. 15,132, dated June 21, 1921, Serial No. 466,596, filed May 3, 1921. 14 Claims. (Cl. 238—321.)



1. A rail anchor consisting of a bent bar extending across the rail base and welded to the edges of the rail flanges.

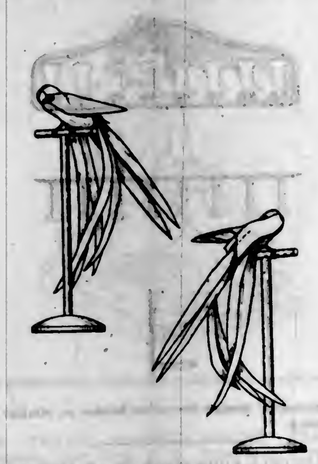
DESIGNS.

59,449. TENSION DEVICE FOR KNITTING. SANTO ABATE and JOHN BUONINCONTRI, Irvington, N. J. Filed Feb. 10, 1921. Serial No. 444,045. Term of patent 14 years.



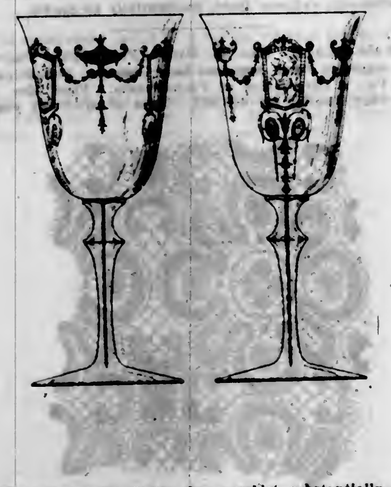
The ornamental design for a tension device for knitting, as shown.

59,450. FIGURETTE. LAURA L. ADAM, Seattle, Wash. Filed May 4, 1921. Serial No. 465,702. Term of patent 3½ years.



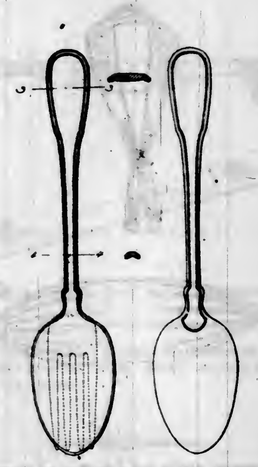
The ornamental design for a figurette, as shown.

59,451. GOBLET. JOSEPH O. BALDA, Newark, Ohio, assignor to A. H. Heisey & Co., Newark, Ohio. Filed Apr. 5, 1919. Serial No. 287,889. Term of patent 14 years.



The ornamental design for a goblet substantially as shown and described.

59,452. HANDLE FOR A SPOON, FORK, OR SIMILAR ARTICLE. ARTHUR LEROY BARNEY, New York, N. Y., assignor to Tiffany & Company, New York, N. Y., a Corporation of New York. Filed June 16, 1921. Serial No. 478,165. Term of patent 14 years.



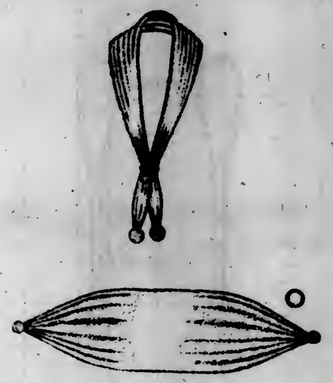
The ornamental design for a handle for a spoon, fork, or other similar article as shown.

59,453. FINGER-RING. ISIDOAR BERNSTEIN, Brooklyn, N. Y. Filed Nov. 11, 1920. Serial No. 423,490. Term of patent 7 years.



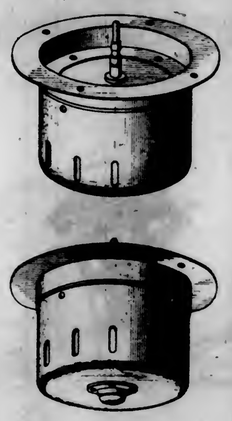
The ornamental design for a finger ring as shown.

59,454. MUFFLER. JESSE W. BETTMANN, New York, N. Y., assignor to Atlantic Knitting Mills Inc., New York, N. Y., a Corporation of New York. Filed Feb. 10, 1921. Serial No. 444,041. Term of patent 3½ years.



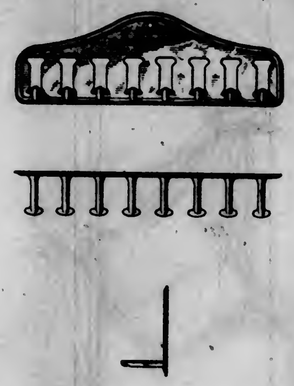
The ornamental design for a muffler, as shown.

59,455. MOTOR-CASING. HENRY C. BRACHTL, Chicago, Ill. Filed Jan. 5, 1920. Serial No. 349,618. Term of patent 7 years.



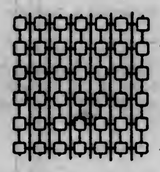
The ornamental design for a motor casing, as shown.

59,456. TIE-HOLDER OR SIMILAR ARTICLE. ABEL COLE, Chicago, Ill. Filed May 7, 1921. Serial No. 467,585. Term of patent 7 years.



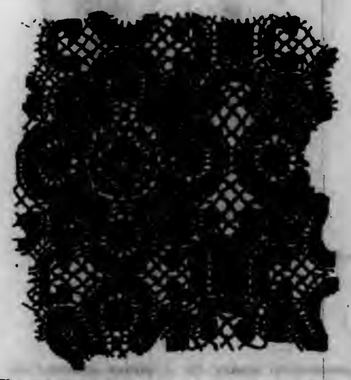
The ornamental design for a tie holder or similar article, as shown.

59,457. AIR-CELL FORMATION OF AN AUTOMOBILE-RADIATOR FRONT. ELMER H. CROSS, Toledo, Ohio. Filed Mar. 26, 1920. Serial No. 369,104. Term of patent 3½ years.



The ornamental design for an air cell formation of an automobile radiator front, substantially as shown.

59,458. LACE. MARC H. DAUDY, Philadelphia, Pa., assignor to North American Lace Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 10, 1921. Serial No. 468,433. Term of patent 3½ years.



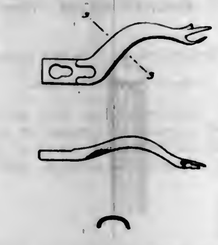
The ornamental design for lace, substantially as shown.

59,459. STATUETTE. LOUIS DAVIDOVITS, New York, N. Y. Filed June 18, 1921. Serial No. 478,754. Term of patent 14 years.



The ornamental design for a statuette, as shown.

59,460. SEWING-MACHINE LOOPER. CHARLES A. DEARBORN, New York, N. Y. Filed Mar. 1, 1921. Serial No. 448,852. Term of patent 14 years.



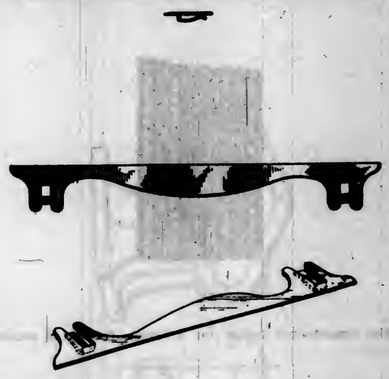
The ornamental design of a sewing machine looper, as shown.

59,461. SEWING-MACHINE PRESSER-FOOT. CHARLES A. DEARBORN, New York, N. Y. Filed Mar. 1, 1921. Serial No. 448,853. Term of patent 14 years.



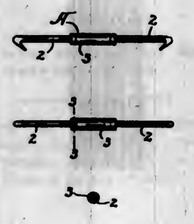
The ornamental design of a sewing machine presser foot, as shown.

59,462. RULER. ARTHUR P. DRAPER, Lebanon, Mo. Filed May 10, 1920. Serial No. 380,422. Term of patent 14 years.



The ornamental design for a ruler, as shown.

59,463. COLLAR-PIN. ALFRED M. DUTCHER, St. Paul, Minn. Filed May 26, 1920. Serial No. 384,474. Term of patent 3½ years.



The ornamental design for a collar pin as shown.

59,464. CAP. LOUIS H. ENSTEN, Cleveland, Ohio. Filed Oct. 21, 1920. Serial No. 418,627. Term of patent 14 years.



The ornamental design for a cap, as shown.

59,465. TEXTILE FABRIC. Thomas W. Hoyne, Jr., Brooklyn, N. Y. Filed July 8, 1921. Serial No. 483,369. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

59,466. TEXTILE FABRIC. Thomas W. Hoyne, Jr., Brooklyn, N. Y. Filed July 8, 1921. Serial No. 483,370. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

59,467. RAG DOLL OR ARTICLE OF SIMILAR NATURE. Bertha E. Friet, New York, N. Y. Filed June 28, 1921. Serial No. 479,926. Term of patent 7 years.



The ornamental design for a rag doll or article of similar nature as shown.

59,468. COMBINED PERFUMER AND DISINFECTOR. Alfred J. Blanton, Bridgeport, Conn. Filed Apr. 7, 1921. Serial No. 459,484. Term of patent 7 years.



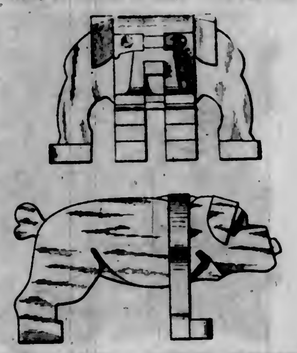
An ornamental design for a combined perfumer and disinfector or similar article as shown.

59,469. TASSEL. William J. Gagnon, Bridgeport, Conn., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Mar. 22, 1921. Serial No. 454,486. Term of patent 14 years.



The ornamental design for a tassel, substantially as shown.

59,470. ANIMAL FIGURE. James S. Gledhill and William H. Smith, Los Angeles, Calif. Filed Mar. 15, 1921. Serial No. 452,549. Term of patent 7 years.



The ornamental design for an animal figure, as shown.

59,471. BOW-HOLDER. Edward R. Hamilton, Westfield, Mass. Filed Dec. 20, 1920. Serial No. 433,949. Term of patent 3½ years.



The ornamental design for a bow holder as shown.

59,472. COVER FOR AN INKSTAND. Harry Haupt, Elmsford, N. Y., assignor to Kimpton, Haupt & Co., New York, N. Y., a Firm. Filed Feb. 21, 1919. Serial No. 278,527. Term of patent 14 years.



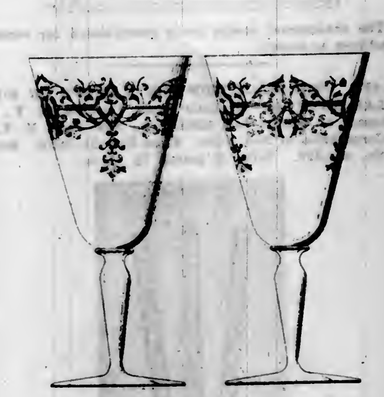
The ornamental design for a cover for an inkstand, as shown.

59,473. SANITARY DRINKING-FOUNTAIN. Alfred G. Hawa, Berkeley, Calif. Filed Nov. 1, 1920. Serial No. 421,194. Term of patent 14 years.



The original design for a sanitary drinking fountain substantially as shown and described.

59,474. GOBLET OR SIMILAR ARTICLE. Thomas Clarence Hensey, Newark, Ohio, assignor to A. H. Heisey & Co., Newark, Ohio. Filed Apr. 5, 1919. Serial No. 287,888. Term of patent 14 years.



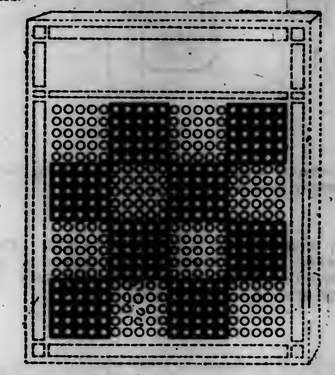
The ornamental design for a goblet or similar article substantially as shown and described.

59,475. SERVICE BADGE OR BUTTON. HAYWOOD H. HILLYER, St. Louis, Mo. Filed Dec. 14, 1918. Serial No. 266,823. Term of patent 3½ years.



The ornamental design for a service badge or button as shown and described.

59,476. PUNCH-BOARD FOR VENDING-MACHINES. JOSEPH W. HOODWIN, Chicago, Ill., assignor to J. W. Hoodwin Company, Chicago, Ill., a Corporation. Filed Aug. 25, 1920. Serial No. 405,968. Term of patent 7 years.



The ornamental design for a punch-board for vending machines as shown.

59,477. ORNAMENTATION FOR A GLOVE OR SIMILAR ARTICLE. WILLIAM HORN, Oneonta, N. Y., assignor to Quality Silk Mills, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 31, 1920. Serial No. 434,378. Term of patent 3½ years.



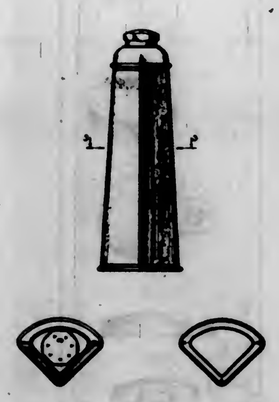
The ornamental design for ornamentation for a glove or similar article, as shown.

59,478. ORNAMENT FOR LIGHTING-FIXTURES. HAMILTON T. HOWELL, New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed Dec. 20, 1920. Serial No. 432,117. Term of patent 14 years.



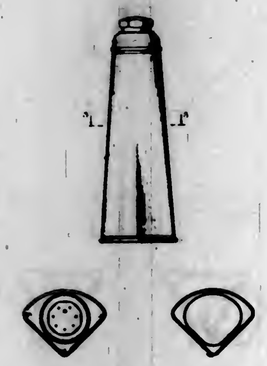
The ornamental design for an ornament for lighting fixtures, as shown.

59,479. POWDER-CONTAINER OR SIMILAR RECEPTACLE. CLEM S. HUMPHREY, Brooklyn, N. Y. Filed June 25, 1920. Serial No. 391,804. Term of patent 7 years.



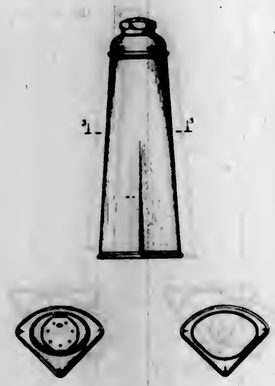
The ornamental design for a powder container or similar receptacle as shown and described.

59,480. POWDER-CONTAINER OR SIMILAR RECEPTACLE. CLEM S. HUMPHREY, Brooklyn, N. Y. Filed June 25, 1920. Serial No. 391,805. Term of patent 7 years.



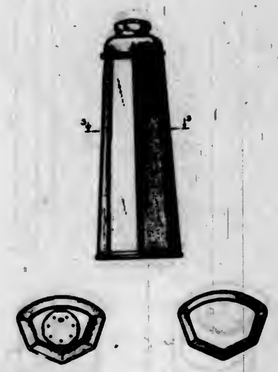
The ornamental design for a powder container or similar receptacle as shown and described.

59,481. POWDER-CONTAINER OR SIMILAR RECEPTACLE. CLEM S. HUMPHREY, Brooklyn, N. Y. Filed June 25, 1920. Serial No. 391,806. Term of patent 7 years.



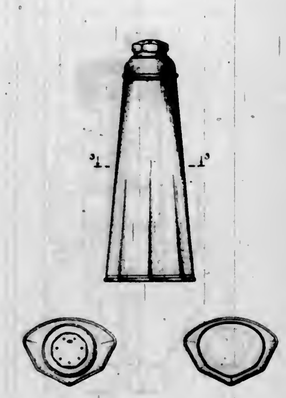
The ornamental design for a powder container or similar receptacle as shown and described.

59,482. POWDER-CONTAINER OR SIMILAR RECEPTACLE. CLEM S. HUMPHREY, Brooklyn, N. Y. Filed June 25, 1920. Serial No. 391,807. Term of patent 7 years.



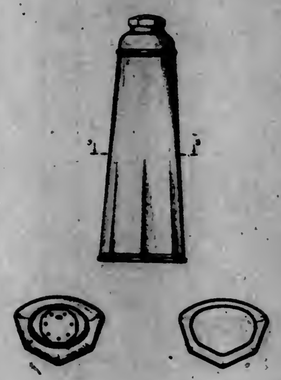
The ornamental design for a powder container or similar receptacle as shown and described.

59,483. POWDER-CONTAINER OR SIMILAR RECEPTACLE. CLEM S. HUMPHREY, Brooklyn, N. Y. Filed June 25, 1920. Serial No. 391,808. Term of patent 7 years.



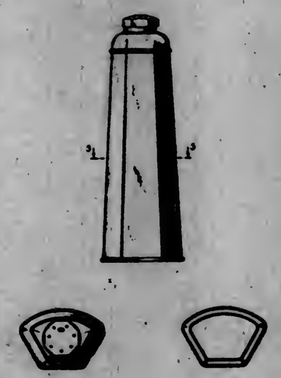
The ornamental design for a powder container or similar receptacle as shown and described.

59,484. POWDER-CONTAINER OR SIMILAR RECEPTACLE. CLEN S. HUMPHREY, Brooklyn, N. Y. Filed June 25, 1920. Serial No. 391,809. Term of patent 7 years.



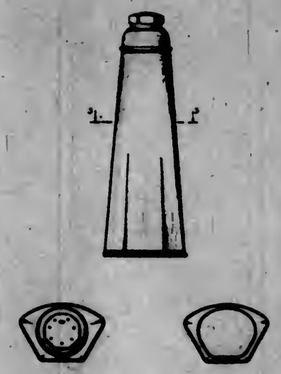
The ornamental design for a powder container or similar receptacle as shown and described.

59,485. POWDER-CONTAINER OR SIMILAR RECEPTACLE. CLEN S. HUMPHREY, Brooklyn, N. Y. Filed June 25, 1920. Serial No. 391,810. Term of patent 7 years.



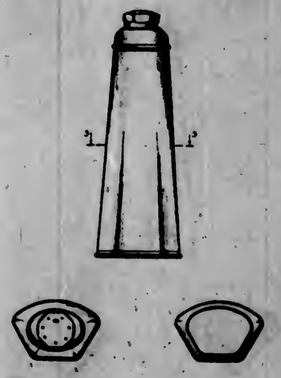
The ornamental design for a powder container or similar receptacle as shown and described.

59,486. POWDER-CONTAINER OR SIMILAR RECEPTACLE. CLEN S. HUMPHREY, Brooklyn, N. Y. Filed June 25, 1920. Serial No. 391,811. Term of patent 7 years.



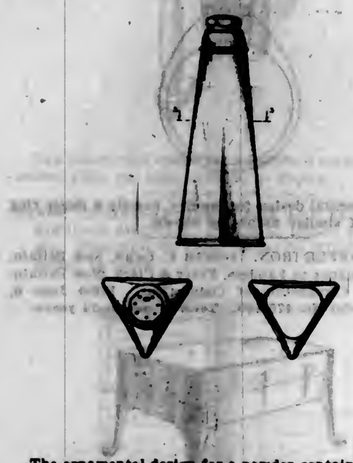
The ornamental design for a powder container or similar receptacle as shown and described.

59,487. POWDER-CONTAINER OR SIMILAR RECEPTACLE. CLEN S. HUMPHREY, Brooklyn, N. Y. Filed June 25, 1920. Serial No. 391,812. Term of patent 7 years.



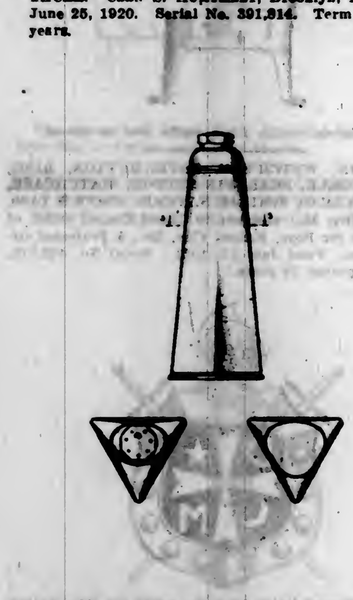
The ornamental design for a powder container or similar receptacle as shown and described.

59,488. POWDER-CONTAINER OR SIMILAR RECEPTACLE. CLEN S. HUMPHREY, Brooklyn, N. Y. Filed June 25, 1920. Serial No. 391,813. Term of patent 7 years.



The ornamental design for a powder container or similar receptacle as shown and described.

59,489. POWDER-CONTAINER OR SIMILAR RECEPTACLE. CLEN S. HUMPHREY, Brooklyn, N. Y. Filed June 25, 1920. Serial No. 391,814. Term of patent 7 years.



The ornamental design for a powder container or similar receptacle as shown and described.

59,490. POWDER-CONTAINER OR SIMILAR RECEPTACLE. CLEN S. HUMPHREY, Brooklyn, N. Y. Filed June 26, 1920. Serial No. 392,109. Term of patent 7 years.



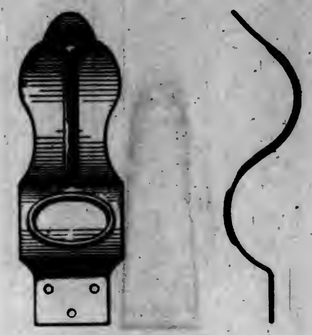
The ornamental design for a powder container or similar receptacle as shown and described.

59,491. DOLL. EDNA A. HUTCHISON, Independence, Mo. Filed July 5, 1921. Serial No. 482,609. Term of patent 3½ years.



The ornamental design for a doll, as shown.

59,492. NEWSPAPER AND PARCEL HOLDER. PIETRO JACOVINI, Philadelphia, Pa. Filed Feb. 4, 1921. Serial No. 442,551. Term of patent 7 years.



The ornamental design for a newspaper and parcel holder, as shown.

59,493. CHAIN ORNAMENT. KONSTANTY KOSTOWSKI, Rockwood, Pa. Filed Apr. 12, 1921. Serial No. 460,817. Term of patent 7 years.



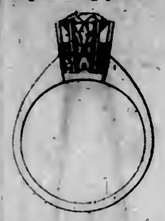
The ornamental design for a chain ornament as shown.

59,494. TIRE. EMIL J. KRAFT, Racine, Wis., assignor to Racine Rubber Company, Racine, Wis., a Corporation of Wisconsin. Filed June 15, 1921. Serial No. 477,835. Term of patent 14 years.



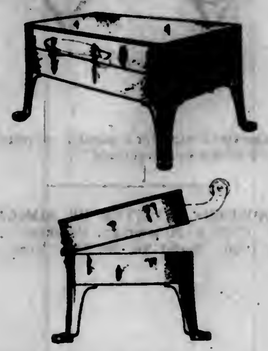
The ornamental design for a tire, as shown.

59,495. JEWELRY—NAMELY, A FINGER-RING OR ARTICLE OF SIMILAR NATURE. JACQUES KREISLER, New York, N. Y., assignor to Jacques Kreisler & Co., New York, N. Y., a Firm composed of Jacques Kreisler and Adele Stern. Filed Dec. 6, 1920. Serial No. 428,821. Term of patent 3½ years.



The ornamental design for jewelry, namely a finger ring or article of similar nature as shown.

59,496. WAFFLE-IRON. JOSEPH F. LAMB, New Britain, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a Corporation of Connecticut. Filed June 6, 1921. Serial No. 475,460. Term of patent 14 years.



The ornamenal design for a waffle iron as shown.

59,497. PIN, WATCH-FOB, LAPEL-BUTTON, RING, BELT-BUCKLE, SEAL, PIN-BUTTON, WATCHCASE, OR ARTICLE OF SIMILAR NATURE. FRANK S. LAND, Kansas City, Mo., assignor to Grand Council Order of De Molay for Boys, Kansas City, Mo., a Fraternal Organization. Filed Jan. 17, 1921. Serial No. 438,015. Term of patent 14 years.



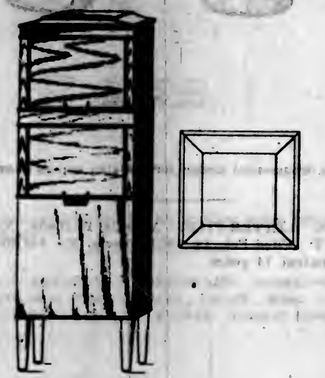
The ornamental design for a pin, watch fob, lapel button, ring, belt buckle, seal, pin button, watchcase, or article of similar nature, as shown.

59,498. COMBINED HINGE AND BRACKET SOCKET-PIECE FOR LAMP-CASINGS. LEON LAPEDUS, Brooklyn, N. Y. Filed Jan. 5, 1921. Serial No. 435,277. Term of patent 3½ years.



The ornamental design for a combined hinge and bracket socket piece for lamp castings, as shown.

59,499. COMBINED BREAD-BOX AND FLOUR-BIN OR SIMILAR ARTICLE. PHILIP G. LUCAS, Jr., St. Louis, Mo. Filed Apr. 26, 1920. Serial No. 376,880. Term of patent 14 years.



The ornamental design for a combined bread box and flour bin, or similar article, as shown.

59,500. INCANDESCENT ELECTRIC LAMP. ANTHONY C. MANNWEILER, Fort Wayne, Ind. Filed June 9, 1921. Serial No. 476,854. Term of patent 14 years.



The ornamental design for an incandescent electric lamp, as shown.

59,501. TEXTILE FABRIC. WALTER WILLIAM MAYER, New York, N. Y. Filed June 15, 1921. Serial No. 477,526. Term of patent 7 years.



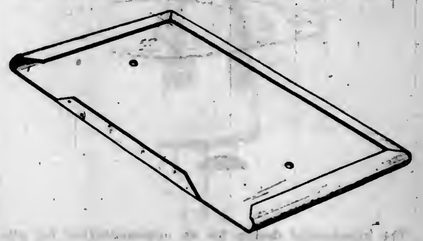
The ornamental design for a textile fabric substantially as shown.

59,502. MILITARY UNIFORM. HASKELL K. MEACHAM, Abilene, Tex. Filed May 10, 1921. Serial No. 468,435. Term of patent 14 years.



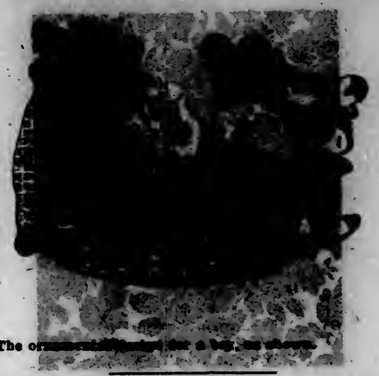
The ornamental design for a military uniform, as shown.

59,503. MAT-HOLDER. SIMON CHARLES MENDELSOHN, Johannesburg, Transvaal, South Africa. Filed Nov. 2, 1920. Serial No. 421,423. Term of patent 7 years.



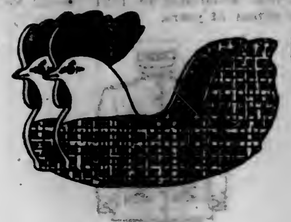
The ornamental design for a mat holder, as shown.

59,504. TOY. Roy Mosby, Newton, N. H. Filed Apr. 12, 1921. Serial No. 460,810. Term of patent 7 years.



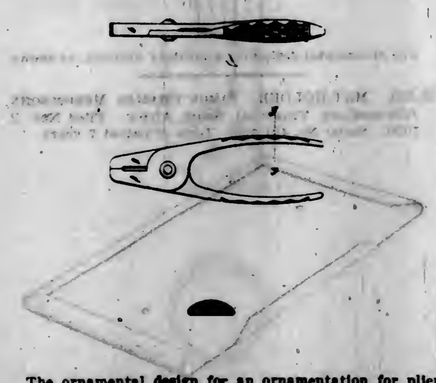
The ornamental design for a toy, as shown.

59,505. TOY. Roy Mosby, Newton, N. H. Filed Apr. 12, 1921. Serial No. 460,811. Term of patent 7 years.



The ornamental design for a toy, as shown.

59,506. ORNAMENTATION FOR PLIER-HANDLES OR SIMILAR TOOLS. Earl W. Myers, New York, N. Y. Filed May 20, 1921. Serial No. 471,256. Term of patent 14 years.



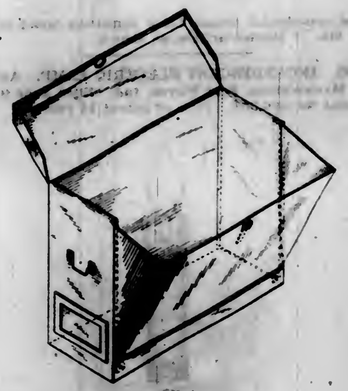
The ornamental design for an ornamentation for plier handles or similar tools, as shown.

59,507. LOVING-CUP. Katherine H. Cone, Baltimore, Md. Filed Jan. 31, 1921. Serial No. 441,437. Term of patent 14 years.



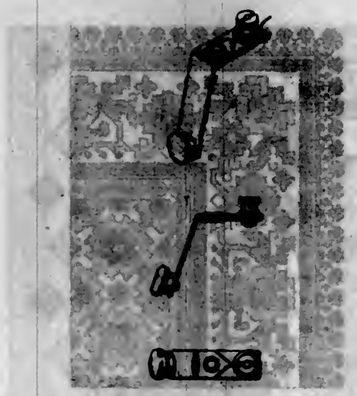
The ornamental design for a loving cup as shown.

59,508. LETTER-FILE. Arthur Paulson, New York, N. Y. Filed Feb. 12, 1921. Serial No. 444,699. Term of patent 14 years.



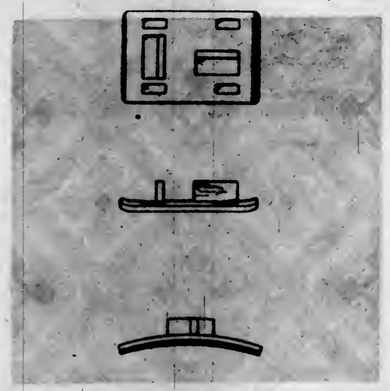
The ornamental design for a letter file as shown.

59,509. IGNITION-TESTER AND SPARK-GAP. Charles H. Buck, Philadelphia, Pa. Filed June 13, 1921. Serial No. 477,321. Term of patent 7 years.



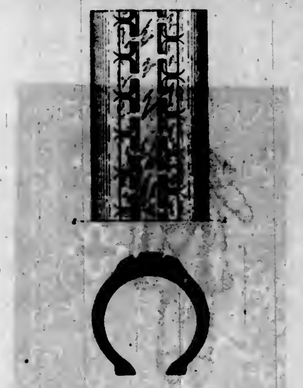
The ornamental design for an ignition tester and spark gap, as shown.

59,510. ANTISKID CROSS-CHAIN. Alexander M. Jamieson and Jesse Murphy, Duluth, Minn. Filed June 17, 1921. Serial No. 478,442. Term of patent 14 years.



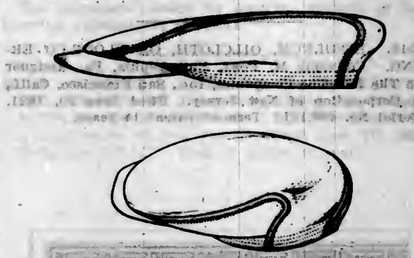
The ornamental design for an antiskid cross chain, as shown.

59,511. TIRE. Reuben Phillips, New Haven, Conn., assignor to The Dale Tire & Rubber Co., New Haven, Conn., a Corporation. Filed July 26, 1920. Serial No. 398,591. Term of patent 14 years.



The ornamental design for a tire, as shown.

59,512. CAP. Benjamin Podolsky, New York, N. Y. Filed June 2, 1921. Serial No. 474,581. Term of patent 3½ years.



The ornamental design for a cap, as shown.

59,513. DRESSED DOLL. Simon de Kabanine and Mary de Poroshovchenkova, London, England. Filed Jan. 13, 1920. Serial No. 351,364. Term of patent 14 years.



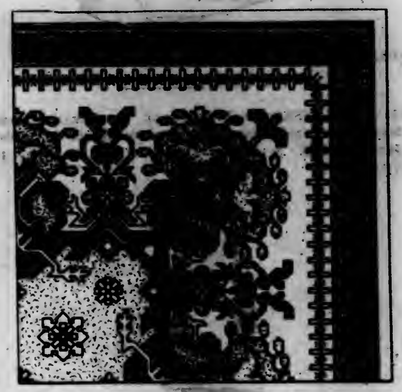
The ornamental design for a dressed doll as shown.

59,514. DRESSED DOLL. SERGE DE KASARINE and MARY DE POSNOVCHIKOVA, London, England. Filed JAN. 13, 1920. Serial No. 351,265. Term of patent 14 years.



The ornamental design for a dressed doll as shown.

59,515. LINOLEUM, OILCLOTH, OR FLOOR-COVERING. CORNELIA M. POST, Philadelphia, Pa., assignor to The Paraffine Companies, Inc., San Francisco, Calif., a Corporation of New Jersey. Filed June 20, 1921. Serial No. 479,121. Term of patent 14 years.



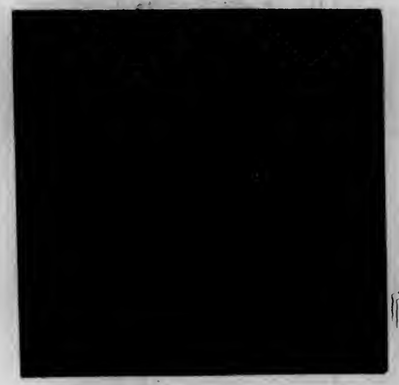
The ornamental design for linoleum, oilcloth or floor covering, substantially as shown.

59,516. LINOLEUM, OILCLOTH, OR FLOOR-COVERING. CORNELIA M. POST, Philadelphia, Pa., assignor to The Paraffine Companies, Inc., San Francisco, Calif., a Corporation of New Jersey. Filed June 20, 1921. Serial No. 479,122. Term of patent 14 years.



The ornamental design for linoleum, oilcloth or floor covering, substantially as shown.

59,517. LINOLEUM, OILCLOTH, OR FLOOR-COVERING. CORNELIA M. POST, Philadelphia, Pa., assignor to The Paraffine Companies, Inc., San Francisco, Calif., a Corporation of New Jersey. Filed June 20, 1921. Serial No. 479,123. Term of patent 14 years.



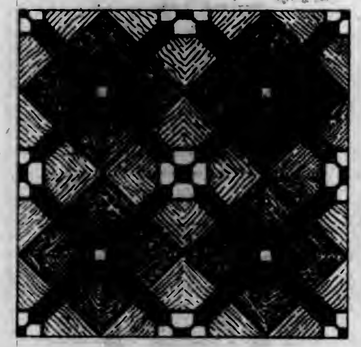
The ornamental design for linoleum, oilcloth or floor covering, substantially as shown.

59,518. LINOLEUM, OILCLOTH, OR FLOOR-COVERING. CORNELIA M. POST, Philadelphia, Pa., assignor to The Paraffine Companies, Inc., San Francisco, Calif., a Corporation of New Jersey. Filed June 20, 1921. Serial No. 479,124. Term of patent 14 years.



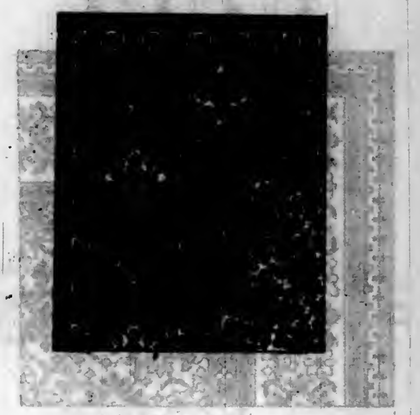
The ornamental design for linoleum, oilcloth or floor covering, substantially as shown.

59,519. LINOLEUM, OILCLOTH, OR FLOOR-COVERING. CORNELIA M. POST, Philadelphia, Pa., assignor to The Paraffine Companies, Inc., San Francisco, Calif., a Corporation of New Jersey. Filed June 20, 1921. Serial No. 479,125. Term of patent 14 years.



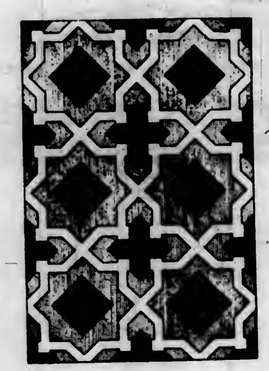
The ornamental design for linoleum, oilcloth or floor covering, substantially as shown.

59,520. LINOLEUM, OILCLOTH, OR FLOOR-COVERING. CORNELIA M. POST, Philadelphia, Pa., assignor to The Paraffine Companies, Inc., San Francisco, Calif., a Corporation of New Jersey. Filed June 20, 1921. Serial No. 479,126. Term of patent 14 years.



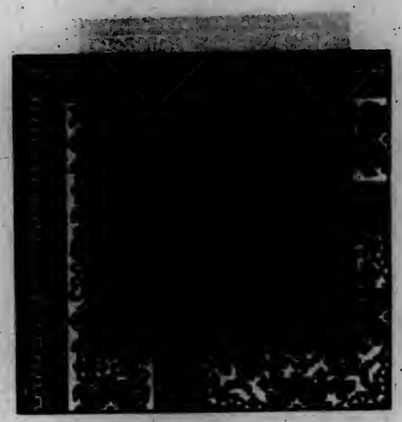
The ornamental design for linoleum, oilcloth, or floor covering, substantially as shown.

59,521. LINOLEUM, OILCLOTH, OR FLOOR-COVERING. CORNELIA M. POST, Philadelphia, Pa., assignor to The Paraffine Companies, Inc., San Francisco, Calif., a Corporation of New Jersey. Filed June 20, 1921. Serial No. 479,127. Term of patent 14 years.



The ornamental design for linoleum, oilcloth, or floor covering, substantially as shown.

59,522. LINOLEUM, OILCLOTH, OR FLOOR-COVERING. CORNELIA M. PEET, Philadelphia, Pa., assignor to The Pantasote Companies, Inc., San Francisco, Calif., a Corporation of New Jersey. Filed June 20, 1921. Serial No. 479,128. Term of patent 14 years.



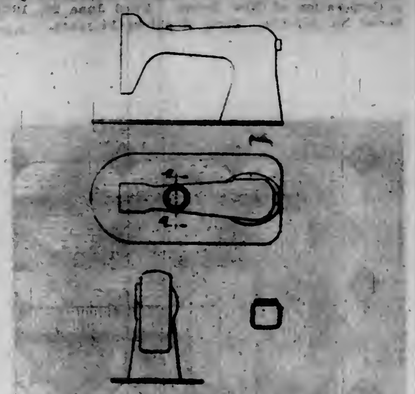
The ornamental design for linoleum, oilcloth or floor covering, substantially as shown.

59,523. FINGER-RING. HENRY RUPPIENN, Chicago, Ill. Filed July 18, 1921. Serial No. 485,752. Term of patent 7 years.



The ornamental design for a finger ring as shown.

59,524. SEWING-MACHINE HEAD. ALBERT D. SMITH, Detroit, Mich. Filed June 7, 1920. Serial No. 387,192. Term of patent 3½ years.



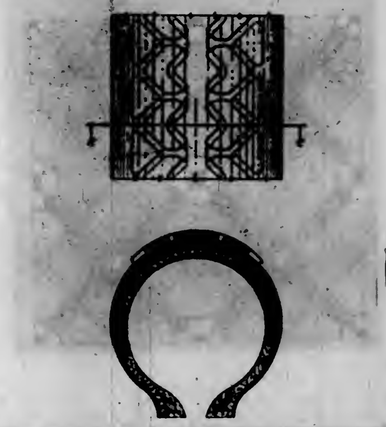
The ornamental design for a sewing machine head, as shown.

59,525. RING FOR LIGHTING-FIXTURES. CURTIS A. SMITH, New Rochelle, N. Y., assignor to Robert Findlay Manufacturing Co., New York, N. Y., a Corporation of New York. Filed Mar. 28, 1921. Serial No. 456,496. Term of patent 7 years.



The ornamental design for a ring for lighting fixtures, as shown.

59,526. TIRE. ROBERT J. SMITH, Erie, Pa., assignor to Continental Rubber Works, Erie, Pa., a Corporation of Pennsylvania. Filed June 1, 1921. Serial No. 474,262. Term of patent 7 years.



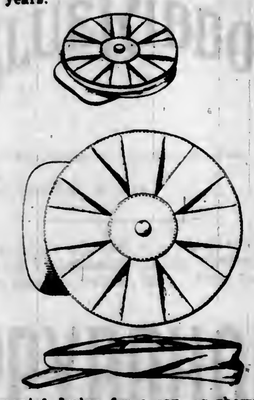
The ornamental design for a tire, as shown.

59,527. PLAYING-CARDS. JESSIE GRIFFIN STICKNEY, San Francisco, Calif. Filed Sept. 8, 1920. Serial No. 409,003. Term of patent 7 years.



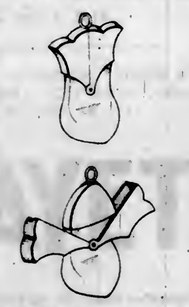
The ornamental design for playing cards, as shown.

59,528. CAP. HARRY WALDBAUM, Philadelphia, Pa. Filed Apr. 29, 1921. Serial No. 465,542. Term of patent 3½ years.



The ornamental design for a cap, as shown.

59,529. CHARM. EDWARD L. WEED, Providence, R. I., assignor to Potter & Buffinton Company, Providence, R. I., a Corporation of Rhode Island. Filed June 18, 1921. Serial No. 478,745. Term of patent 7 years.



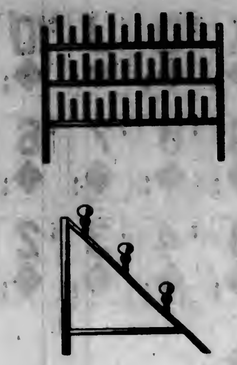
The ornamental design for a charm, as shown.

59,580. COMBINED ERASER AND PENCIL-SHARPENER. LOUIS ZELICK, Philadelphia, Pa. Filed Feb. 24, 1921. Serial No. 447,619. Term of patent 7 years.



The ornamental design for a combined eraser and pencil sharpener as shown.

59,581. GAME APPARATUS. JOSEPH KOPP, Elmira, N. Y. Filed Sept. 16, 1920. Serial No. 411,332. Term of patent 7 years.



The ornamental design for a game apparatus, as shown.





TRADE-MARKS

OFFICIAL GAZETTE, OCTOBER 25, 1921.

[PUBLISHED OCTOBER 31, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 118,434. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DARWIN & MILNER, INC., New York, N. Y. Filed May 13, 1919.

PYREKS

Particular description of goods.—Metal Tools for Cutting and Forming Consisting of Punches, Reamers, Taps, Drills, Cutters, Dies, Draw-Plates, Blades, Milling-Cutters, Mandrels, Spindles, Rolls, and Centers.

Claims use since January, 1918.

Ser. No. 120,808. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN HOMINY COMPANY, Indianapolis, Ind., and Decatur, Ill. Filed July 28, 1919.

HOMCO



Particular description of goods.—Wheat-Flour.

Claims use since Apr. 8, 1919.

Ser. No. 120,809. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) DECATUR BREWING CO., Decatur, Ill. Filed July 24, 1919.

BLUE RIBBON

Particular description of goods.—A Malt Extract in Syrup Form.

Claims use since Apr. 5, 1919.

Ser. No. 127,332. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT W. RENNIE, Detroit, Mich. Filed Jan. 19, 1920.

APPYRRHOEA

Particular description of goods.—Dentifrices—Namely, Tooth-Paste.

Claims use since June 1, 1918.

Ser. No. 128,656. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CITY MILLS COMPANY, Columbus, Ga. Filed Feb. 20, 1920.

GAYETY

Particular description of goods.—Wheat-Flour.

Claims use since June 1, 1912.

Ser. No. 129,859. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORTHERN FLOUR MILLS COMPANY, Portland, Oreg. Filed Mar. 17, 1920.



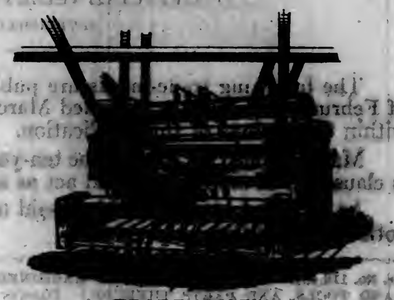
Particular description of goods.—Rolled Oats, Wheat-Flakes, and Farina.
Claims use since Jan. 30, 1920.

Ser. No. 129,932. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JABURG-MILLER CO., INC., New York, N. Y. Filed Mar. 19, 1920.



No claim being made to the words "Bakery Equipment Specialists" apart from the mark shown.
Particular description of goods.—Bakery-Machinery Equipment and Supplies—Namely, Dough-Mixers, Loaf-Molders, Cake-Machines; Cooky-Droppers, Flour-Sifters, Dough-Dividers, Bread-Wrapping Machines, Flake Flour-Hoppers Used in Connection with Machinery, Automatic Proofers, Rotary Proofers, Dough-Divider Stands, Bowl-Stands, Cake-Fillers, Peel-Blades, Work-Tables, Pan-Chutes, Receiving-Tables, Pastry-Tables, Pie-Crust Rollers, Pie-Crimpers, Apple-Parers, and Egg-Beating Machinery and Doughnut-Machines.
Claims use since July, 1917.

Ser. No. 131,373. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AIMÉ RABOIN & CIE., Lyon, France. Filed Apr. 20, 1920.



The right to the exclusive use of the word "Trade-Mark" is disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Silk Piece Goods.
Claims use since before 1840.

Ser. No. 131,673. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STEPHEN URBAN, Cleveland, Ohio. Filed Apr. 26, 1920.



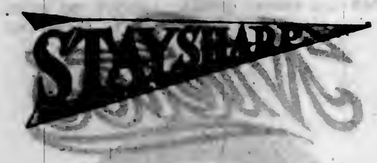
Consisting of applicant's photograph.
Particular description of goods.—Eye Medicine.
Claims use since Jan. 1, 1920.

Ser. No. 132,182. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) O. A. BIDNER CO., Burlington, Iowa. Filed May 8, 1920.



Disclaimer as made of the words "Manufacturing, Machinists, Mike-Proof Products, 215 Division street, Burlington, Iowa," apart from the mark shown and said.
Particular description of goods.—Babbitting-Jigs for Gasolene-Engine Connecting-Rods, Water-Motors, and Special Tools Made to Order, Dies and Jigs for the Production of Metal Specialties.
Claims use since Apr. 21, 1920.

Ser. No. 132,344. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BAKER-WERCHTER COMPANY, Cleveland, Ohio. Filed May 12, 1920.



No claim is made to the words "Stay Sharp High Speed Steel Tools" apart from the mark shown on the drawing.
Particular description of goods.—Cutting-Tools for Metal-Working Machines.
Claims use since Jan. 15, 1920.

Ser. No. 132,668. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) E. R. H. TAGGART, Liberty, Mo. Filed May 19, 1920.

CUDDLE

Particular description of goods.—Animal Toys.
Claims use since Mar. 1, 1920.

Ser. No. 133,751. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE RAILWAY SPECIALTY COMPANY, Atchison, Kans. Filed June 15, 1920.



Particular description of goods.—Crank-Shaft-Bearing-Boring Machines, Arbor-Press Bushing Drivers, Ball-Race Tools, Transmission-Drum Supports, Bench-Clamps for Ford Cylinder-Blocks, Piston-Clamps, Bench-Clamps, Transmission-Drum Holders, Connecting-Rod Alinement-Jigs, Rear-Axle-Sleeve Pullers, Transmission-Drum Clamping Devices, Grease-Guns, Engine-Stands, Front-Axle Straightening and Bending Bars, Bending-Irons, Turning-Bars, Combination Adjustable Lathe-Tool Holders, Burning-In and Testing Stands for Automobile-Motors, Babbitting-Mandrels for Use in Babbitting Automobile Cylinder-Blocks, Babbitting-Ladles for Use in Pouring Babbitt in Automobile Cylinder-Blocks, Cylinder-Reboring Machines, Transmission-Bushing-Reaming Machines.
Claims use since July 7, 1919.

Ser. No. 133,783. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KAEMPFER'S INCORPORATED, Chicago, Ill. Filed June 16, 1920.



Particular description of goods.—A Mixture or Combination of Seeds Used as Food for Birds.
Claims use since Mar. 13, 1920.

Ser. No. 134,563. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CARPENTER STEEL COMPANY, Reading, Pa. Filed July 6, 1920.

STAR-ZENITH

Particular description of goods.—Tool-Steels in Bars, Billets, and Shapes.
Claims use since about 1904.

Ser. No. 134,569. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CARPENTER STEEL COMPANY, Reading, Pa. Filed July 6, 1920.

ZENITH

Particular description of goods.—Tool-Steels in Bars, Billets, and Shapes.
Claims use since about 1899.

Ser. No. 134,570. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CARPENTER STEEL COMPANY, Reading, Pa. Filed July 6, 1920.

"TITAN"

Particular description of goods.—Tool-Steels in Bars, Billets, and Shapes.
Claims use since about 1899.

Ser. No. 134,583. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CARPENTER STEEL COMPANY, Reading, Pa. Filed July 6, 1920.

TROJAN

Particular description of goods.—Alloy Steels in Bars, Billets, and Shapes.
Claims use since about 1903.

Ser. No. 135,128. (CLASS 22. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) W. & S. BUTCHER LIMITED, Sheffield, England. Filed July 19, 1920. Under ten-year proviso.

WADE & BUTCHER
SHEFFIELD

Particular description of goods.—Razors, Scissors; Pen, Pocket, Table and Carving Knives; Butcher and Hunting Knives, Files, Rasps, Saws, Chisels, Gages, Plane-Irons, and Adzes.
Claims use since June, 1816.

Ser. No. 135,141. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) DAVID A. EBSELY, Alameda, Calif. Filed July 19, 1920.

Ebsely's
(The Winged Messenger)

Particular description of goods.—Castile-Soap.
Claims use since Mar. 20, 1920.

Ser. No. 135,210. (CLASS 17. TOBACCO PRODUCTS.) VICENTE NIETO & BROS., Tampa, Fla., and San Francisco, Calif. Filed July 20, 1920.

Nieto's

Particular description of goods.—Cigars.
Claims use since April, 1920.

Ser. No. 135,229. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BON I. LOOK STORES COMPANY, Denver, Colo. Filed July 21, 1920.

BON I. LOOK

Particular description of goods.—Canned Fruits, Canned Vegetables, Canned Fish, Dried Vegetables, Dried Fruits, Rolled Oats, Coffee, Cocoa, Sugar, Tea, Flavoring Extracts for Foods, Whole and Prepared Spices, Cocoanut, Tapioca, and Rice.
Claims use since Jan. 15, 1920.

Ser. No. 136,838. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GRAIN PACKING COMPANY, Roselle, N. J. Filed Sept. 4, 1920.



No claim is made to the words "Fruit Laxative" or the representation of fruit apart from the mark shown on the drawing.
Particular description of goods.—Laxative Food.
Claims use since Jan. 29, 1910.

Ser. No. 137,694. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALPINA CHEESE CO., Burgdorf, Switzerland. Filed Sept. 28, 1920.



No claim is made to the exclusive use of the words "Gruyère Extra Fin sans Croûte," "Swiss Cheese without Crust," "Marque Déposée," "Queso de Suisa sin Cortesa," "Made in Switzerland," "Marque," and "Berthoud Suisse" apart from the mark as shown.
Particular description of goods.—Swiss Cheese.
Claims use since Nov. 4, 1919.

Ser. No. 138,300½. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LOYAL B. DAVIS, Seattle, Wash. Filed Oct. 11, 1920.

SUN-TOP

Particular description of goods.—Waterproof and Weather-Resistant Liquid Dressing for Automobile-Tops, Leather, and Textile Fabrics.
Claims use since Aug. 25, 1920.

Ser. No. 138,520. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) GEO. H. STOCKMAN, JR., Philadelphia, Pa. Filed Oct. 19, 1920.

DANE-TEE

Particular description of goods.—Urn-Bags or Woven Tea-Containers and Connected Spout-Hoods.
Claims use since about the middle of May, 1920.

Ser. No. 138,809. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) WILLIAM J. COVELL, San Francisco, Calif. Filed Oct. 26, 1920.

REPEETER
TRADE MARK

No claim is made to the words "Trade Mark" shown in the drawing.
Particular description of goods.—A Venereal Syringe.
Claims use since Oct. 1, 1920.

Ser. No. 139,994. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KÄSEREIFUNG A. G. GOLDBACH (EMMENTHAL), Goldbach, near Burgdorf, Switzerland. Filed Nov. 18, 1920.



The words "Emmenthal" and "Marque de Fabrique-Déposée" are disclaimed apart from the mark shown in the accompanying drawing.

Particular description of goods.—Cheese and Cheese Preserve.

Claims use since September, 1892.

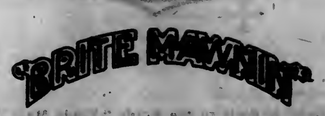
Ser. No. 140,082. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) GEORGE STARR WHITE, Los Angeles, Calif. Filed Nov. 23, 1920.



Particular description of goods.—Electromedical Apparatus for Diagnosis and Therapy Consisting of Bio-Dynamo-Chromes, Chromatic Screens, Pedestal Pins and Screws, Thermic-Interrupter Sockets, Foot-Switches, Adjustable Pedestals and Pins, Turntables, Static Grounders, Energy-Conductors, Organotonometer Sets, Thimble-Plexors, Densitonometers Sets, Diagnostophones, Energy-Intensifiers, Metronomic Interrupters, Rheostats, Time-Switches, Spinal Condensers, Therapeutic Thimbles, Rectal Dilators and Electrodes, Dirk Analgesia.

Claims use since May 15, 1914.

Ser. No. 140,085. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) ANDES PRODUCTS CO., INC., Chicago, Ill. Filed Nov. 24, 1920.



Particular description of goods.—Brooms.

Claims use since Jan. 2, 1919.

Ser. No. 140,284. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHOCOLATS FINS SUISSES S. A., Clarens-Montreux, Switzerland. Filed Nov. 26, 1920.



No claim is made to [illegible] Montreux Suisse" [illegible] wing.

Particular description of goods.—[illegible] and Cocoa for Beverages, [illegible] Cocoa and Cocoa Combinations, [illegible] Flour, or with Medicaments; [illegible] Wafers, in Sticks, in Balls, [illegible] Chocolate Combined with Nuts, [illegible] or Medicaments; Bonbons; Fresh, [illegible] Fruits; Candied Flowers; Condensed, Fresh, Conserved, and Powdered Milk and Cream; Lactated Flour, Pastils Used as a Confection, and Pastry.

Claims use since November, 1919.

Ser. No. 140,483. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FINKELSTEIN & SONS, INC., New York, N. Y. Filed Nov. 30, 1920.



Particular description of goods.—Various Qualities of Piece Goods, Namely, Woolen Fabrics, Cotton Fabrics, Silk Fabrics, Cotorin, and Velveteens.

Claims use since Feb. 14, 1914.

Ser. No. 140,506. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) KETTLE-PET MANUFACTURING COMPANY, INC., Lockport, N. Y. Filed Dec. 4, 1920.



Particular description of goods.—Powder-Puffs.

Claims use since Jan. 12, 1920.

Ser. No. 140,523. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) PERCY E. T. WILLIAMS, Philadelphia, Pa. Filed Dec. 4, 1920.



Particular description of goods.—Toothbrushes.

Claims use since about Oct. 1, 1920.

Ser. No. 140,681. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) FRANK W. STEINACKER, Cleveland, Ohio. Filed Dec. 6, 1920.

NAPOLEON

Particular description of goods.—Non-Ferrous and Ferrous Alloys.

Claims use since 1906.

Ser. No. 140,874. (CLASS 31. FILTERS AND REFRIGERATORS.) JOHN DUNN, SON AND CO., New York, N. Y. Filed Dec. 10, 1920.

GUANACO

Consists of the word "Guanaco."

Particular description of goods.—Filters and Refrigerators.

Claims use since January, 1879.

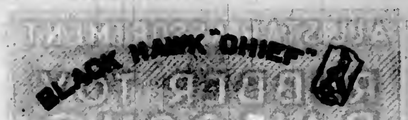
Ser. No. 141,610. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) SANITANT MANUFACTURING COMPANY, INC., New York, N. Y. Filed Dec. 28, 1920.

SANITANT

Particular description of goods.—Vaginal Douches.

Claims use since Nov. 27, 1920.

Ser. No. 141,747. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) BLACK HAWK TIRE & RUBBER COMPANY, Des Moines, Iowa. Filed Jan. 3, 1921.



Particular description of goods.—Rubber and Rubber and Fabric Tires and Inner Tubes.

Claims use since Sept. 26, 1920.

Ser. No. 142,866. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) LUTHER ALVIN YOUNG, University City, Mo. Filed Jan. 27, 1921.

BS

Particular description of goods.—Dental Polishers.

Claims use since Aug. 1, 1914.

Ser. No. 143,017. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) SPYROSEAL MANUFACTURING COMPANY, St. Louis, Mo. Filed Jan. 31, 1921.



No claim is made to a piston-ring apart from the mark as shown in the drawing.

Particular description of goods.—Piston-Rings.

Claims use since Aug. 1, 1920.

Ser. No. 143,148. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) GEO. A. WISCHERT CO. INC., New York, N. Y. Filed Feb. 3, 1921.

CLASPLATE

Consisting of the word "Clasplate."

Particular description of goods.—Gold Alloys for Dental Castings.

Claims use since Jan. 20, 1920.

Ser. No. 143,153. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) RICHARD D. BARROW & SON, Louisville, Ky. Filed Feb. 4, 1921.



The star being shown in orange and the background in green, no claim being made to the words "Assortment" and "Rubber Toy Balloons."

Particular description of goods.—Toy Balloons.
Claims use since Jan. 2, 1921.

Ser. No. 143,328. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) MASON, DAVIS & COMPANY, Chicago, Ill. Filed Feb. 8, 1921.

MADACO

Particular description of goods.—Weighing-Scales.
Claims use since Apr. 25, 1917.

Ser. No. 143,444. (CLASS 39. CLOTHING.) M. B. LINGENFELDER CO., Camden, N. Y. Filed Feb. 11, 1921.

NO KOMUS



SHU TA LIE

Particular description of goods.—Leather Shoes, Leather Slippers, Leather Moccasins.
Claims use since Oct. 26, 1919.

Ser. No. 143,767. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) FRANK M. LEWIS, Jr., Baltimore, Md. Filed Feb. 18, 1921.

Golf Jr.

No claim is made to the word "Golf" apart from the mark shown in the drawing.

Particular description of goods.—Cardboard Golf Games.
Claims use since Feb. 7, 1921.

Ser. No. 143,778. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) RICHARD PALMER, New York, N. Y. Filed Feb. 18, 1921.

CASCADE

Particular description of goods.—Hot-Water Bottles.
Claims use since 1896.

Ser. No. 143,838. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) RUBBER & CELLULOID PRODUCTS COMPANY, Newark, N. J. Filed Feb. 19, 1921.

ALBERITE

Particular description of goods.—Tooth, Hand, Nail, Cloth, Bath, Hair, and Lather Brushes.
Claims use since about June 1, 1919.

Ser. No. 143,935. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE LA VIETES MANUFACTURING CO., New Haven, Conn. Filed Feb. 23, 1921.

Giffy

Particular description of goods.—Windshield-Cleaners.
Claims use since Aug. 15, 1920.

Ser. No. 144,017, (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) FRANK V. COOKE, Detroit, Mich. Filed Feb. 26, 1921.

TRANS-LEVER SPRING

Consisting of the words "Trans-Lever Spring." No claim is made to the word "Spring" apart from the word "Trans-Lever."

Particular description of goods.—Vehicle-Springs.
Claims use since Aug. 2, 1920.

Ser. No. 144,293. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TRUST ESTATE OF ADOLPH C. MEYER, DECEASED, Baltimore, Md. Filed Mar. 3, 1921. Under ten-year proviso.

Dr. BULL'S

Particular description of goods.—Medicinal Preparations in Liquid Form—Namely, Cough-Syrup, Baby-Syrup, and Diarrhea Curative.
Claims use since 1858.

Ser. No. 144,725. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) J. F. JELENKO & CO., New York, N. Y. Filed Mar. 14, 1921.



Particular description of goods.—Dental Gold, Dental Gold Solder, Lingual Bars, Palatal Bars, Dental Gold Plates, Dental Gold Shells, Dental Gold Disks, Dental Clasp-Plates, Dental Wires, Dental Casting-Golds, and Dental Cleaning and Polishing Disks.
Claims use since on or about Jan. 1, 1915.

Ser. No. 144,785. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) OIL CITY ENGINE AND POWER COMPANY, Oil City, Pa. Filed Mar. 14, 1921.

ARACO

Particular description of goods.—Gas-Engines, Pumping-Powers, Stuffing-Boxes, Polished Rods, Torpedo-Reels, Polished-Rod Clamps, Sucker-Rods, Pull-Rod Clamps, Pull-Rods, Working-Barrel Valves, Working-Barrel Standing Valves, and Working Barrels.
Claims use since Oct. 1, 1918.

Ser. No. 144,760. (CLASS 17. TOBACCO PRODUCTS.) THE WILCOX GROCERY COMPANY, Mount Carmel, Ill. Filed Mar. 14, 1921.

The Very Idea

Particular description of goods.—Cigars.
Claims use since Jan. 11, 1921.

Ser. No. 145,092. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) W-M MFG. CO., Kansas City, Mo. Filed Mar. 22, 1921.

KANCIMO

Particular description of goods.—First-Aid Kits.
Claims use since Mar. 12, 1921.

Ser. No. 145,153. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES F. CONRAD, New York, N. Y. Filed Mar. 24, 1921.

KEEP SMILING

Particular description of goods.—Matches.
Claims use since Oct. 1, 1920.

Ser. No. 145,744. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) JAMES H. EMBRY, Inwood Park, N. Y. Filed Apr. 5, 1921.

ACME

Particular description of goods.—Artificial Fruit for Decorative Exhibitions and Display Purposes in Homes, Shops, Stores, and Like Places.
Claims use since Feb. 17, 1921.

Ser. No. 145,924. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) IDA J. TETLOW, Philadelphia, Pa. Filed Apr. 8, 1921.

GOSSAMER

Particular description of goods.—Powder-Puffs.
Claims use since Jan. 19, 1921.

Ser. No. 146,061. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE AU-TO COMPRESSOR CO., Wilmington, Ohio. Filed Apr. 12, 1921.

Oro

Particular description of goods.—Fluid-Compressor Outfits, Wrenches, Valve-Lifters, Pliers, and Connecting-Rods for Internal-Combustion Engines.
Claims use since Jan. 1, 1917.

Ser. No. 146,099. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) LEO J. WEINSTEIN, San Francisco, Calif. Filed Apr. 12, 1921.



No claim being made to the exclusive use of the words "Heat Hot" apart from that shown in the drawing. The mark is indicated to represent a red coloration.

Particular description of goods.—Chemical Heating Appliances of the General Appearances and Use of Hot-Water Bags and Foot-Warmers.

Claims use since Dec. 15, 1920.

Ser. No. 146,370. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOSEPH J. COSIN, New York, N. Y. Filed Apr. 18, 1921.



Particular description of goods.—Powder-Puffs.

Claims use since about September, 1920.

Ser. No. 146,374. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOSEPH J. COSIN, New York, N. Y. Filed Apr. 9, 1921.

"DAINTYMAID"

Consisting of the words "Dainty Maid."

Particular description of goods.—Powder-Puffs.

Claims use since September, 1920.

Ser. No. 146,477. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE ARROW COMPANY, Detroit, Mich. Filed Apr. 21, 1921.



No claim being made to the word "Inhaler" apart from the mark as shown.

Particular description of goods.—Inhalers Used in Administering Medicines.

Claims use since Oct. 15, 1920.

Ser. No. 146,526. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) ALEXIS CHARPILLOZ, Chatelaine, Switzerland. Filed Apr. 22, 1921.

"Alex"

Particular description of goods.—Tire-Valves.

Claims use since Oct. 26, 1920.

Ser. No. 146,529. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHICAGO PNEUMATIC TOOL COMPANY, New York, N. Y. Filed Apr. 22, 1921.

BOYER



SUPERIOR

No claim being made to the word "Chicago" or to the word "Pneumatic" apart from the mark shown on the drawing.

Particular description of goods.—Pneumatic Chipping and Riveting Hammers and Repair Parts Thereof and Pneumatic Drills and Repair Parts Thereof.

Claims use since Mar. 7, 1921.

Ser. No. 146,615. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE YOUNGSTOWN SHEET & TUBE CO., Youngstown, Ohio. Filed Apr. 22, 1921.



Particular description of goods.—Iron and Steel Pipe and Pipe-Couplings.

Claims use since Sept. 25, 1909.

Ser. No. 146,766. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) HAMILTON & HANSELL, INC., New York, N. Y. Filed Apr. 26, 1921.

SAL

Particular description of goods.—Nautical Speedometers, Nautical Logs, and Nautical Distance-Recorders.

Claims use since about January, 1920.

Ser. No. 146,842. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) NEW YORK MERCHANDISE COMPANY, New York, N. Y. Filed Apr. 27, 1921.

THE FOLLIES

Particular description of goods.—Powder-Puffs.

Claims use since Mar. 11, 1921.

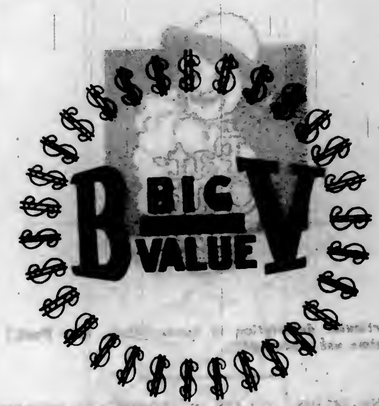
Ser. No. 146,856. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WICKWIRE SPENCER STEEL CORPORATION, Worcester, Mass. Filed Apr. 27, 1921.

BRIDE'S DELIGHT

Particular description of goods.—Combination-Packages of Wire Culinary and Kitchen Utensils.

Claims use since January, 1921.

Ser. No. 146,857. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WEBER FLOUR MILLS CORPORATION, Salina, Kans. Filed Apr. 27, 1921.



Exclusive use of the words "Big Value" and the dollar mark is disclaimed apart from the mark shown.

Particular description of goods.—Wheat-Flour.

Claims use since Mar. 18, 1918.

Ser. No. 146,910. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE HALOID COMPANY, Rochester, N. Y. Filed Apr. 28, 1921.

KALO

Particular description of goods.—Photographic Developing-Paper.

Claims use since Apr. 21, 1921.

Ser. No. 146,914. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) H. KRAMER & CO., Chicago, Ill. Filed Apr. 28, 1921.

ULTIMAX

Particular description of goods.—Metal Products Consisting of Ferrous and Non-Ferrous Castings.

Claims use since Mar. 12, 1920.

Ser. No. 147,053. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN THOMPSON & SONS, LTD., Belfast, Ireland. Filed Apr. 30, 1921.



Particular description of goods.—Oats, (for Food.)
Claims use since 1917.

Ser. No. 147,088. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CEREAL PRODUCTS CO., Manitowoc, Wis. Filed May 2, 1921.



The picture in the drawing being fanciful.
Particular description of goods.—Breakfast Cereal, Malt Breakfast Food, Hominy, Oatmeal, Malt Extract, Malt-Syrup, Lactana, Dairy Feed, Horse Feed, Black Malt, Caramel Malt, Malt-Flour, Hog Feed, Poultry Feed, Pearl-Barley, Pale-Malt, the Malts All Being for Food Purposes.
Claims use since August, 1920.

Ser. No. 147,130. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SUPER-ART PRODUCTIONS, Los Angeles, Calif. Filed May 2, 1921.

GOOFS

Particular description of goods.—Motion-Pictures.
Claims use since October, 1920.

Ser. No. 147,156. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CITIZENS' WHOLESALE SUPPLY COMPANY, Columbus, Ohio. Filed May 3, 1921.



No claim is made to the words "Trade Mark" apart from the other features of the mark.
Particular description of goods.—Bay-Leaves, Lima Beans, Navy-Beans, Bird-Seed, Doughnut-Flour, Devil's Food Ready Cake-Flour, Prunes, Seeded Raisins, Currants, Figs, Crystallised Ginger, Citron, Lemon-Peel, Orange-Peel, Gelatin, Egg-Noodles, Ice-Cream Powder, Lemon Pie and Pudding Powder, Chocolate Pie and Pudding Powder, Cocoanut Cream Pie and Pudding Powder, Steamed-Pudding Powder, Cottage-Pudding Powder, Orange Blanc-Mange Powder, Pancake Compound, Mince-Meat, English Walnuts, Roasted Peanuts, Blanched-Peanuts, Nut-Butter, Queen-Olives, Stuffed Olives, Orris-Root Powder, Buckwheat Compound, Popcorn, Crystallised Pineapple, Imitation Maple-Syrup, Pancake-Dip, (a Table-Syrup,) Rice, Root-Beer, Caraway-Seed, Celery-Seed, Celery-Salt, Chilli Powder, Curry Powder, Onion-Salt, Poultry-Dressing, Tumeric, Cream-of-Tomato Soup, Barbados Molasses, Pearl-Tapioca, Ready Tapioca, Special English Breakfast Tea, Formosa Oolong Special Tea, Special Darjeeling Ceylon Tea, Basket-Fired Japan Tea, Uncolored Japan Tea, Green Japan Tea, Silver-Leaf Tea, Young Hyson Tea, Gunpowder Tea, Imperial Tea, English Breakfast Tea, Formosa Oolong Tea, Ceylon Tea, Mixed Tea, Vinegar, and Corn-Starch.
Claims use since Nov. 10, 1895.

Ser. No. 147,178. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AMERICAN BRONZE CORPORATION, Berwyn, Pa. Filed May 4, 1921.

NON-GRAN

Particular description of goods.—Bushings and Bearings.
Claims use since May 1, 1907.

Ser. No. 147,263. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) GEORGE A. STETSON, Boston, Mass. Filed May 5, 1921.



Particular description of goods.—Bunion-Protectors.
Claims use since about Nov. 8, 1920.

Ser. No. 147,306. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) NEW JERSEY OPTICAL CO., Newark, N. J. Filed May 6, 1921.



Particular description of goods.—Spectacle and Eyeglass Frames and Mountings, the Latter Including Temples, Bridges for Eyeglasses and Spectacles, Guards for Eyeglasses, Springs for Eyeglasses, and Screws for Eyeglass and Spectacle Mountings.
Claims use since February, 1921.

Ser. No. 147,448. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) ELMER I. MCKESSON, Toledo, Ohio. Filed May 9, 1921.

METABOLOR

Particular description of goods.—Respiration-Testing and Gas-Administration Apparatus.
Claims use since Oct. 6, 1920.

Ser. No. 147,478. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES L. TEUTEBERG, St. Louis, Mo. Filed May 9, 1921.



Particular description of goods.—Poultry Feed.
Claims use since May 1, 1920.

Ser. No. 147,566. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MORRIS, MANN & REILLY, Chicago, Ill. Filed May 11, 1921.

Red Seal

Consisting of the words "Red Seal."
Particular description of goods.—Powder-Puffs.
Claims use since Jan. 1, 1918.

Ser. No. 147,567. (CLASS 20. BROOMS, BRUSHES, AND DUSTERS.) MORRIS, MANN & REILLY, Chicago, Ill. Filed May 11, 1921.



Consisting of the representation of a red seal with the words "Red Seal" thereon.

Particular description of goods.—Powder-Puffs.
Claims use since Jan. 1, 1918.

Ser. No. 147,753. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARTHUR T. WILSON, Chicago, Ill. Filed May 14, 1921.

ORBITONE

Particular description of goods.—A Preparation for Eye Brows and Lashes.
Claims use since Apr. 1, 1921.

Ser. No. 147,789. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE LOBL MANUFACTURING COMPANY, Middleboro, Mass. Filed May 16, 1921.

MENTO-TWIN

Particular description of goods.—Inhalers.
Claims use since September, 1912.

Ser. No. 147,802. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALLACE & TIERNAN CO., INC., Newark, N. J. Filed May 16, 1921.

AGENE

Particular description of goods.—Wheat-Flour.
Claims use since December, 1920.

Ser. No. 147,910. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANK J. BARRAGER, Los Angeles, Calif. Filed May 19, 1921.



No claim being made to the words "Celery Bread" nor the pictorial representation of a bunch of celery apart from the mark as shown.

Particular description of goods.—Celery Bread.
Claims use since Apr. 15, 1921.

Ser. No. 148,026. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE IRON KING MANUFACTURING COMPANY, Bradner, Ohio. Filed May 21, 1921.

THE IRON KING

Particular description of goods.—Oil-Well Pulling Machinery.
Claims use since 1906.

Ser. No. 148,120. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) BETHLEHEM STEEL COMPANY, Bethlehem, Pa. Filed May 24, 1921. Under ten-year proviso.

BETHLEHEM

Particular description of goods.—Steel Rails.
Claims use since about 1886.

Ser. No. 148,195. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) BETHLEHEM STEEL COMPANY, Bethlehem, Pa. Filed May 25, 1921.



Exclusive property in the word "Bethlehem" apart from the mark shown in the drawing is disclaimed.

Particular description of goods.—Sheet-Steel.
Claims use since Sept. 7, 1920.

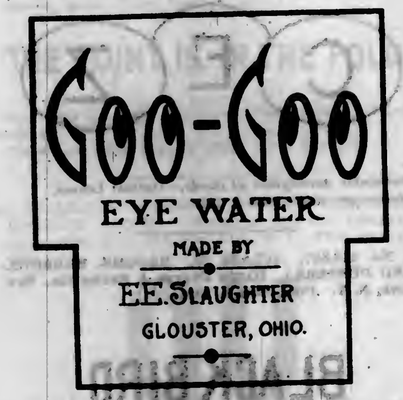
Ser. No. 148,254. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE SANITATION CORPORATION, Jersey City, N. J., and New York, N. Y. Filed May 27, 1921.



No claim being made to the exclusive use of the pictorial representation of the apparatus apart from the mark shown on the drawing.

Particular description of goods.—Sanitation-Process Sewage-Treatment Systems and Parts Thereof.
Claims use since May 1, 1921.

Ser. No. 148,515. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EMORY EUGENE SLAUGHTER, Glouster, Ohio. Filed June 1, 1921.



No claim being made to the words "Eye Water," "Made by," and "Glouster, Ohio" apart from the mark shown.

Particular description of goods.—Eye-Water.
Claims use since November, 1905.

Ser. No. 148,634. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed June 3, 1921.

Vita-Loaf

Applicant disclaims any exclusive right to the word "Loaf" apart from the other features of the mark shown on the drawing.

Particular description of goods.—Bread.
Claims use since May 17, 1921.

Ser. No. 148,636. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed June 3, 1921.

VITA-FLAKES

Applicant disclaims any exclusive right to the word "Flakes" apart from the other features of the mark shown on the drawing.

Particular description of goods.—Cereal Breakfast Food.
Claims use since May 20, 1921.

Ser. No. 148,644. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) CHEROKEE FUEL COMPANY, Kansas City, Mo. Filed June 4, 1921.

CREEK

Particular description of goods.—Coal.
Claims use since May 6, 1921.

Ser. No. 148,681. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed June 4, 1921.

VITA-KAKE

Applicant disclaims any exclusive right to the word "Kake" apart from the other features of the mark shown on the drawing.

Particular description of goods.—Cake.
Claims use since May 24, 1921.

Ser. No. 148,716. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) COBWELL CORPORATION, Cleveland, Ohio. Filed June 6, 1921.

COBWELL

Particular description of goods.—Sanitation-Process and Organic-Waste-Reduction Systems and Parts Thereof.
Claims use since 1915.

Ser. No. 148,720. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HUGH A. DONNELLY, St. Louis, Mo. Filed June 6, 1921.

BUY HECK

Particular description of goods.—Piece Goods—Namely, Cambrics.
Claims use since about May 15, 1921.

Ser. No. 148,769. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELIZABETH B. SPENCER, Wilkes-Barre, Pa. Filed June 6, 1921.



No claim is made to the words "The" and "Remedy" apart from the mark shown.
Particular description of goods.—A Liniment and Preparation for Regulating the Liver of Humans and Effective in Offsetting Colic in Cattle and for All Diseases Arising from Colds in Chickens.
Claims use since 1890.

Ser. No. 148,775. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF. UNITED ROYALTIES CORP., New York, N. Y. Filed June 6, 1921.

SATURN

Particular description of goods.—Can-Openers.
Claims use since 1914.

Ser. No. 148,796. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY D. FENTON, Coldwater, N. Y. Filed June 7, 1921.



Particular description of goods.—A Salve for the Treatment of Wounded, Sore, or Galled Horses.
Claims use since Feb. 21, 1921.

Ser. No. 148,836. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) FREDERICK HOFFA, New York, N. Y. Filed June 9, 1921.

CEZ

Particular description of goods.—Optical Lenses.
Claims use since June 1, 1921.

Ser. No. 148,887. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) HAYES DUSTER & BRUSH CO., New York, N. Y. Filed June 9, 1921.

BLACK BIRD

Consisting of the words "Black Bird."
Particular description of goods.—Feather Dusters.
Claims use since about November, 1920.

Ser. No. 149,006. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) IRVIN-SMITH COMPANY, INC., Chicago, Ill. Filed June 11, 1921.

THE UNIVERSITY

Particular description of goods.—Toothbrushes.
Claims use since on or about June 1, 1918.

Ser. No. 149,027. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OTTO ROTH, New York, N. Y. Filed June 11, 1921.



Particular description of goods.—Cheese.
Claims use since about February, 1914.

Ser. No. 149,226. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GILMAN BROS., INC., Boston, Mass. Filed June 16, 1921.

THE POINT IS IN THE FOLD

Particular description of goods.—Hair-Nets and Handkerchiefs.
Claims use since Jan. 21, 1921.

Ser. No. 149,289. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Filed June 17, 1921.

QU

Particular description of goods.—Biscuit.
Claims use since as early as June 9, 1914.

Ser. No. 149,290. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Filed June 17, 1921.

QUBOX

Particular description of goods.—Biscuit.
Claims use since as early as June 8, 1914.

Ser. No. 149,291. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Filed June 17, 1921.

RUSTICKS

Particular description of goods.—Biscuit.
Claims use since as early as June 4, 1921.

Ser. No. 149,387. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COLLINS FLOUR MILLS, Pendleton, Oreg. Filed June 30, 1921.

PIDO

Particular description of goods.—Wheat-Flour.
Claims use since Nov. 1, 1920.

Ser. No. 149,389. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COLLINS FLOUR MILLS, Pendleton, Oreg. Filed June 30, 1921.

OREGON MAID

Particular description of goods.—Wheat-Flour.
Claims use since Sept. 30, 1920.

Ser. No. 149,509. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COLLINS FLOUR MILLS, Pendleton, Oreg. Filed June 20, 1921.

WHITE HONOR

Particular description of goods.—Wheat-Flour.
Claims use since Aug. 21, 1920.

Ser. No. 149,511. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MARCUS & SMITH, New York, N. Y. Filed June 22, 1921.

IRENE

Particular description of goods.—Powder-Puffs.
Claims use since about Mar. 1, 1921.

Ser. No. 149,514. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MARCUS & SMITH, New York, N. Y. Filed June 22, 1921.

Charming Lady

Particular description of goods.—Powder-Puffs.
Claims use since about Mar. 1, 1921.

Ser. No. 149,515. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MARCUS & SMITH, New York, N. Y. Filed June 22, 1921.

Debutante

Particular description of goods.—Powder-Puffs.
Claims use since about Mar. 1, 1921.

Ser. No. 149,516. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MARCUS & SMITH, New York, N. Y. Filed June 22, 1921.

Lady Betty

Particular description of goods.—Powder-Puffs.
Claims use since about Mar. 1, 1921.

Ser. No. 149,567. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOLT & COMPANY, New York, N. Y. Filed June 23, 1921.

TENAX

Particular description of goods.—Wheat-Flour.
Claims use since July 5, 1920.

Ser. No. 149,675. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SMITH BROTHERS, Chicago, Ill. Filed June 27, 1921.

TODDLE

Particular description of goods.—Candy.
Claims use since Feb. 24, 1921.

Ser. No. 149,732. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE YEASTOLE COMPANY, Eureka Springs, Ark. Filed June 27, 1921.

YEASTOLE

Particular description of goods.—Yeast.
Claims use since September, 1910.

Ser. No. 149,769. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE POAGE-WALL MILLING COMPANY, Catlettsburg, Ky. Filed June 28, 1921.

Tri-State

Particular description of goods.—Wheat-Flour.
Claims use since May 1, 1921.

Ser. No. 149,770. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE POAGE-WALL MILLING COMPANY, Catlettsburg, Ky. Filed June 28, 1921.

OH BOY

Particular description of goods.—Wheat-Flour.
Claims use since May 1, 1921.

Ser. No. 149,565. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GERSON STERLER CO., Milwaukee, Wis. Filed June 20, 1921.



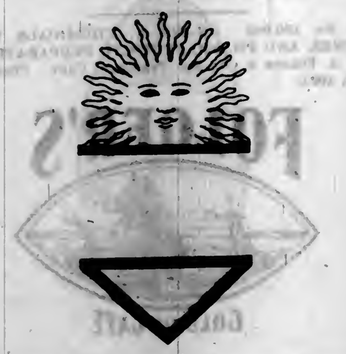
No claim being made to the numeral "5" enveloping the letter "C" apart from the other features of the mark.
Particular description of goods.—Candles.
Claims use since May 21, 1921.

Ser. No. 149,574. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) J. H. WILLIAMS & CO., Brooklyn, N. Y. Filed June 20, 1921. Under ten-year proviso.

WILLIAMS

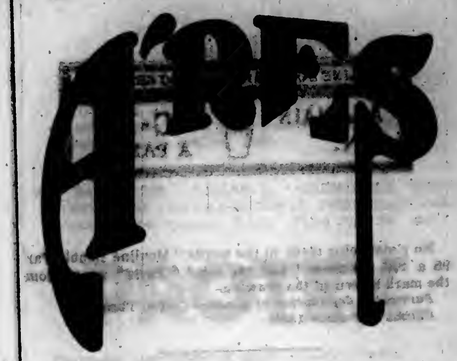
Particular description of goods.—Drop-Forgings, Castings, Stampings, Steels, and High-Speed Steels.
Claims use since 1853.

Ser. No. 149,635. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE UPSON COMPANY, Lockport, N. Y. Filed July 2, 1921.



Particular description of goods.—Metallic Fasteners.
Claims use since Jan. 1, 1920.

Ser. No. 150,030. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE RED STAR MILLING COMPANY, Wichita, Kans. Filed July 5, 1921.



Particular description of goods.—Wheat-Flour.
Claims use since Jan. 2, 1918.

Ser. No. 150,178. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BERKELEY COMPANY, Providence, R. I. Filed July 9, 1921. Under ten-year proviso.



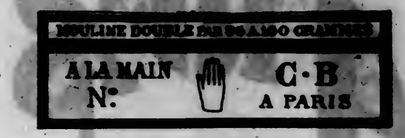
The cross-lining in the drawing is for the purpose of representing shading only and does not necessarily represent color.
Particular description of goods.—Cotton Madras in the Piece.
Claims use since on or before Jan. 1, 1888.

Ser. No. 150,405. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BENJAMIN LEON, Camden, N. J. Filed July 15, 1921.

KANDYWHEAT KRISP

Particular description of goods.—Candy.
Claims use since about July 7, 1921.

Ser. No. 150,476. (CLASS 42. THREAD AND YARN.) SOCIETE FRANCAISE DE COTONS A COUDRE (SOCIETE ANONYME,) Paris, France. Filed July 16, 1921.

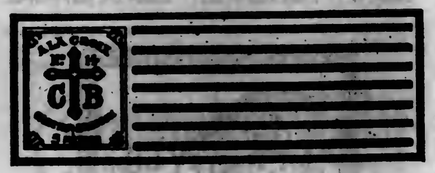


No claim being made to the words "Mouliné Doublé Par 95 a 100 Grammes" and the word "Paris" apart from the mark shown in the drawing.

Particular description of goods.—Cotton Thread.

Claims use since 1865.

Ser. No. 150,478. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SOCIETE FRANCAISE DE COTONS A COUDRE (SOCIETE ANONYME,) Paris France. Filed July 16, 1921.



No claim being made to the numerals "No. 14" and "5 Metres" apart from the mark shown in the drawing.

Particular description of goods.—Piece Goods in the Form of Cotton Lace.

Claims use since 1882.

Ser. No. 150,482. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SOCIETE FRANCAISE DE COTONS A COUDRE (SOCIETE ANONYME,) Paris France. Filed July 16, 1921.



No claim being made to the numerals "No. 12" and "10 Metres" apart from the mark shown in the drawing.

Particular description of goods.—Piece Goods in the Form of Cotton Lace.

Claims use since 1881.

Ser. No. 150,486. (CLASS 42. THREAD AND YARN.) SOCIETE FRANCAISE DE COTONS A COUDRE (SOCIETE ANONYME,) Paris, France. Filed July 16, 1921.



The cross, the letters "C B," and the border of the mark shown being red, no claim being made to the words "Cordonnet, Marque De Fabrique, Fabricant, Paris" apart from the mark shown in the drawing.

Particular description of goods.—Cotton Thread.

Claims use since 1840.

Ser. No. 150,546. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LORRAINE MANUFACTURING & IMPORTING COMPANY, Grand Haven, Mich. Filed July 18, 1921.

Fantine

Particular description of goods.—Hair-Nets.

Claims use since December, 1920.

Ser. No. 150,665. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. A. FOLGER & Co., San Francisco, Calif. Filed July 20, 1921.

FOLGER'S



GOLDEN GATE

Particular description of goods.—Baking-Powder, Cream of Tartar, Soda.

Claims use since 1878.

Ser. No. 150,683. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. H. JOHNSON, Union City, Tenn. Filed July 20, 1921.



Picture shown in mark is of applicant.

Particular description of goods.—Insecticide.

Claims use since 1912.

Ser. No. 150,691. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KIRBARINE CO., New York, N. Y. Filed July 20, 1921.

KIRBARINE

Consisting of the word "Kirbarine."

Particular description of goods.—A Preparation for the Treatment of Mange and Eczema and All Skin Diseases and for the Destruction of Fleas and Lice and a Hair-Restorer.

Claims use since July 12, 1921.

Ser. No. 150,703. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PENSLAR COMPANY, Detroit, Mich. Filed July 20, 1921.



The larger oval field being in red.

Particular description of goods.—Dentifrices.

Claims use since Nov. 8, 1919.

Ser. No. 150,704. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JACOB POTASCHNIK, New York, N. Y. Filed July 20, 1921.

QUINODOR

Particular description of goods.—Hair-Tonic.

Claims use since Feb. 18, 1920.

Ser. No. 150,706. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TOLLEF SANDS, Tacoma, Wash. Filed July 20, 1921.

PROTEX

Particular description of goods.—Tooth-Powder.

Claims use since June 25, 1920.

Ser. No. 150,764. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ODRI COMPANY, Los Angeles, Calif. Filed July 21, 1921.



Particular description of goods.—A Liquid Preparation to Reduce and Deodorise Perspiration.

Claims use since July 2, 1921.

Ser. No. 150,808. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE F. HOGAN & RUBEN BLUNDELL, Brooklyn, N. Y. Filed July 22, 1921. Under ten-year proviso.

HOGAN'S
"OLD RELIABLE"
COUGH SYRUP

Particular description of goods.—A Preparation for Coughs, Colds, Hoarseness, Croup, Asthma, Difficulty of Breathing, and Affections of the Bronchial Tubes.

Claims use since 1890.

Ser. No. 150,822. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Dr. Ludovic Plantier, Annonay, (Ardeche,) France. Filed July 22, 1921.

RECTOPARIBLINE

Particular description of goods.—A Remedy for Constipation, Diseases of the Stomach and the Toxic Sequels Thereof—Namely, Auto-Intoxication, Digestive Troubles, Diseases of the Nervous System, of the Circulation, and of the Skin.
Claims use since Mar. 29, 1921.

Ser. No. 150,849. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) The Cooper Medicine Co., Dayton, Ohio. Filed July 23, 1921.

KUROKOL

Particular description of goods.—A Liquid Laxative Cold Compound.
Claims use since Dec. 8, 1920.

Ser. No. 150,877. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Organ-Iron Company, Omaha, Nebr. Filed July 23, 1921.

NEURO-PIRIN

Particular description of goods.—Medicine Used in Cases of Colds, Grippe, Influenza, Headache, Neuralgia, Rheumatism.
Claims use since May 15, 1921.

Ser. No. 150,883. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Bernhard Uhlmann, Passaic, N. J. Filed July 23, 1921.

U 55

Consisting of the letter and numeral "U 55."
Particular description of goods.—A Medicinal Compound for Rheumatic Ailments.
Claims use since about May 26, 1921.

Ser. No. 150,890. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Dr. D. Jayne & Son, Philadelphia, Pa. Filed July 25, 1921.

JAYNEX

Particular description of goods.—A Remedy for Diseases of the Respiratory Organs.
Claims use since [illegible] Apr. 21, 1921.

Ser. No. 150,[illegible]. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) François R. Marcel, Brooklyn, N. Y. Filed July 25, 1921.

PERMO

Particular description of goods.—Hair-Dye.
Claims use since February, 1912.

Ser. No. 150,909. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) François René Marcel, Brooklyn, N. Y. Filed July 25, 1921.

Permaline

Consists of the word "Permaline."
Particular description of goods.—An Oily Preparation Used in Producing Permanent Waves in the Human Hair.
Claims use since May, 1916.

Ser. No. 150,910. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) François René Marcel, Brooklyn, N. Y. Filed July 25, 1921.

Permoil

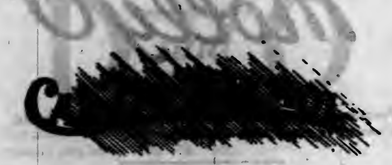
Consists of the word "Permoil."
Particular description of goods.—An Oily Preparation Used in Producing Permanent Waves in the Human Hair.
Claims use since February, 1917.

Ser. No. 150,960. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) Champion Game Company, Chicago, Ill. Filed July 26, 1921.



Particular description of goods.—Parlor Baseball Game.
Claims use since on or about July 11, 1921.

Ser. No. 150,961. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) William N. Edenfield, Atlanta, Ga. Filed July 26, 1921.



Particular description of goods.—Alkaline Antiseptics.
Claims use since Sept. 15, 1917.

Ser. No. 151,013. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Daniel B. Latimer, Philadelphia, Pa. Filed July 27, 1921.

Pixies

Consists of the word "Pixies."
Particular description of goods.—Laxatives and Purgatives.
Claims use since July 21, 1921.

Ser. No. 151,015. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. E. Martin, Chicago, Ill. Filed July 27, 1921.

E-Z BLUE



Particular description of goods.—A Bluing Compound or Preparation for Use in Washing and Laundry Purposes.
Claims use since on or about June 10, 1921.

Ser. No. 151,026. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) Texas Film Company, Denton, Tex., and Los Angeles, Calif. Filed July 27, 1921.



Particular description of goods.—Motion-Picture Films.
Claims use since Sept. 1, 1920.

Ser. No. 151,058. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Nodol Medicine Co., St. Louis, Mo. Filed July 28, 1921.

DRESOL

Particular description of goods.—A Medicinal Preparation Useful in the Treatment of Wounds, Cuts, Burns, Sores, and Skin Affections and Croup, Colds, Pneumonia, and other Forms of Congestion and Inflammation.
Claims use since Mar. 1, 1921.

Ser. No. 151,365. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARTIN KEPPER, New York, N. Y. Filed Aug. 4, 1921.



The picture in the drawing forming a feature of the mark is fanciful and shows the upper part of a lady's figure having her arms in upward position ready to place a hair-net over her hair. The following words are disclaimed apart from the mark shown in the drawing: "Sanitary Sterilised Real Human Hair Net Invisible Durable" and "Trade Mark" and the representations of the hair-net.

Particular description of goods.—Hair-Nets.
Claims use since May 8, 1921.

Ser. No. 151,534. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ROBERT J. BARRIGER, Birmingham, Ala. Filed Aug. 8, 1921.



No claim is made to the words "Trade-Mark, Cleaner, Destroys Dirt" apart from the mark as shown on the drawing.

Particular description of goods.—Cleaner for Clothing, Furniture, Floor, and General Household Use.
Claims use since Aug. 4, 1921.

Ser. No. 151,789. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y. Filed Aug. 15, 1921.

Oldpal

Particular description of goods.—Silk Piece Goods.
Claims use since July 27, 1921.

Ser. No. 152,018. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOLDEN-LEONARD COMPANY, New York, N. Y. Filed Aug. 22, 1921.

PANDORA

Particular description of goods.—Worsted and Woolen Textile Fabrics.
Claims use since May, 1921.

Ser. No. 152,263. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LOS ANGELES SOAP CO., Los Angeles, Calif. Filed Aug. 27, 1921.

LEMOLIVE

Particular description of goods.—Toilet Soap.
Claims use since 1905.

Ser. No. 152,272. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO. INC., New York, N. Y. Filed Aug. 27, 1921.

Molly O

Particular description of goods.—Silk Piece Goods.
Claims use since Aug. 12, 1921.

Ser. No. 152,346. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. A. RIDER COMPANY, Chicago, Ill. Filed Aug. 29, 1921.

Ridernet

Consisting of the word "Ridernet."
Particular description of goods.—Hair Nets.
Claims use since July 1, 1921.

Ser. No. 152,389. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) PAUL SONNENSCHEIN, New York, N. Y., and Prague, Bohemia. Filed Aug. 30, 1921.



No claim is made to the representation of the goods apart from the mark shown on the drawing.

Particular description of goods.—Hops.
Claims use since about January, 1908.

Ser. No. 152,435. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MICHIGAN SPECIALTY CO., Lansing, Mich. Filed Aug. 31, 1921.

D and O

Particular description of goods.—Soap.
Claims use since Aug. 15, 1921.

Ser. No. 152,610. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Sept. 6, 1921.

Tarquina

Particular description of goods.—Woolen Piece Goods.
Claims use since July 25, 1921.

Ser. No. 152,611. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Sept. 6, 1921.

Marcova

Particular description of goods.—Woolen Piece Goods.
Claims use since July 25, 1921.

Ser. No. 152,612. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Sept. 6, 1921.

Nitida

Particular description of goods.—Woolen Piece Goods.
Claims use since July 25, 1921.

Ser. No. 152,613. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Sept. 6, 1921.

Sonnetta

Particular description of goods.—Woolen Piece Goods.
Claims use since July 25, 1921.

Ser. No. 152,614. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Sept. 6, 1921.

Prettina

Particular description of goods.—Woolen Piece Goods.
Claims use since July 25, 1921.

Ser. No. 152,615. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Sept. 6, 1921.

Mara

Particular description of goods.—Woolen Piece Goods.
Claims use since July 25, 1921.

Ser. No. 152,617. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Sept. 6, 1921.

Piretta

Particular description of goods.—Woolen Piece Goods.
Claims use since July 25, 1921.

Ser. No. 152,616. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Sept. 6, 1921.

Margolla

Particular description of goods.—Woolen Piece Goods.
Claims use since July 25, 1921.

Ser. No. 152,619. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Sept. 6, 1921.

Preciosa

Particular description of goods.—Woolen Piece Goods.
Claims use since July 25, 1921.

Ser. No. 152,672. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE GLOBE SOAP COMPANY, Cincinnati, Ohio. Filed Sept. 7, 1921.



No claim is made for the exclusive use of the word "Soap" apart from the mark as shown on the drawing.
Particular description of goods.—Soap.
Claims use since March, 1921.

Ser. No. 152,714. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NEWEN, HEGELEIN & CO., INC., New York, N. Y. Filed Sept. 8, 1921.



Particular description of goods.—Woven Cotton Piece Goods—Namely, Gray Sheetings and Drills of All Descriptions.
Claims use since March, 1919.

Ser. No. 152,717. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BOGHER & THOMPSON, New York, N. Y. Filed Sept. 8, 1921.

golf-tog

Particular description of goods.—Silk Piece Goods.
Claims use since May 24, 1921.

Ser. No. 152,874. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WESTERN BOTTLE MANUFACTURING COMPANY, Chicago, Ill. Filed Sept. 12, 1921.

WECO

Particular description of goods.—Hair-Nets.
Claims use since Aug. 15, 1921.

Ser. No. 152,915. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Sept. 14, 1921.

TOREADOR

Particular description of goods.—Broad-Silk Piece Goods.
Claims use since on or about Jan. 15, 1921.

Ser. No. 152,916. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Sept. 14, 1921.

MOUSQUETAIRE

Particular description of goods.—Broad-Silk Piece Goods.
Claims use since on or about Jan. 15, 1921.

Ser. No. 152,917. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Sept. 14, 1921.

FIREFLY

Particular description of goods.—Broad-Silk Piece Goods.
Claims use since on or about Jan. 15, 1921.

Ser. No. 152,918. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Sept. 14, 1921.

DAUPHIN

Particular description of goods.—Broad-Silk Piece Goods.
Claims use since on or about Jan. 15, 1921.

Ser. No. 152,948. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Sept. 15, 1921.

Brytonia

Particular description of goods.—Pile Fabrics in the Piece.
Claims use since June 21, 1921.

Ser. No. 152,979. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Sept. 16, 1921.

Tussonia

Particular description of goods.—Pile Fabrics in the Piece.
Claims use since Aug. 13, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

OCTOBER 25, 1921.

147,529. CANDY. A. G. ABRAHAM COMPANY, Moline, Ill.
Filed September 27, 1920. Serial No. 137,652. PUBLISHED JUNE 28, 1921.

147,530. GRINDING AND POLISHING STONES. ACME ABRASIVE COMPANY, Chicago, Ill.
Filed February 7, 1921. Serial No. 143,244. PUBLISHED JUNE 21, 1921.

147,531. FIBER-BOARD SOLD IN SHEETS. THE AGASOTH MILLBOARD CO., Trenton, N. J.
Filed December 2, 1920. Serial No. 140,516. PUBLISHED JUNE 21, 1921.

147,532. CERTAIN NAMED SKINS. ALASKA CHEMICAL COMPANY, Jersey City, N. J.
Filed October 11, 1920. Serial No. 138,156. PUBLISHED JUNE 28, 1921.

147,533. TIMEPIECES. FRANK W. ALTER, Chicago, Ill.
Filed November 13, 1919. Serial No. 124,839. PUBLISHED JUNE 14, 1921.

147,534. GAS-VALVES FOR BOILERS, RADIATORS, AND FURNACES AND AIR-VALVES FOR RADIATORS. AMERICAN RADIATOR COMPANY, East Orange, N. J., and Chicago, Ill.
Filed May 22, 1920. Serial No. 132,769. PUBLISHED JUNE 21, 1921.

147,535. STEEL CASTINGS. AMERICAN RADIATOR COMPANY, East Orange, N. J., and Chicago, Ill.
Filed November 13, 1920. Serial No. 139,609. PUBLISHED JUNE 28, 1921.

147,536. BLACK SHEETS OF ROLLED SOFT STEEL. AMERICAN SHEET & TIN PLATE COMPANY, Pittsburgh, Pa.
Filed December 31, 1920. Serial No. 141,711. PUBLISHED JUNE 14, 1921.

147,537. TRIPOLI FLOUR, (GROUND TRIPOLI STONE.) AMERICAN TRIPOLI COMPANY, Seneca, Mo.
Filed July 22, 1920. Serial No. 135,258. PUBLISHED JUNE 28, 1921.

147,538. RHEUMATISM MEDICINE. ANTI-URIC COMPANY, San Francisco, Calif.
Filed November 16, 1920. Serial No. 139,704. PUBLISHED MAY 31, 1921.

147,539. WORSTEDS IN THE PIECE. THE ARDROSS WORSTED CO., Frankford, Pa., and New York, N. Y.
Filed April 2, 1921. Serial No. 145,604. PUBLISHED JUNE 14, 1921.

147,540. COATS, PANTS, VESTS, AND OVERCOATS. ARTCRAFT CLOTHES INC., Baltimore, Md.
Filed April 16, 1920. Serial No. 131,200. PUBLISHED JUNE 21, 1921.

147,541. COTTON-SEED MEAL FOR USE AS AN ANIMAL FOOD. ASHCRAFT-WILKINSON COMPANY, Atlanta, Ga.
Filed December 6, 1920. Ser. No. 140,629. PUBLISHED JUNE 28, 1921.

147,542. FUEL-VAPORIZERS FOR INTERNAL-COMBUSTION ENGINES. GEORGE A. BAKER, Philadelphia, Pa.
Filed March 28, 1921. Serial No. 145,311. PUBLISHED JUNE 28, 1921.

147,543. MONTHLY PUBLICATION. THE BARNES-ROSS COMPANY, Indianapolis, Ind.
Filed October 8, 1920. Serial No. 138,083. PUBLISHED JUNE 28, 1921.

147,544. THERMOS-JACKETS, A FELT COVER FOR WATER HEATERS AND BOILERS TO CONSERVE HEAT. BASTIAN-MORLEY CO., La Porte, Ind.
Filed October 11, 1920. Serial No. 138,173. PUBLISHED JUNE 21, 1921.

147,545. SAUSAGES AND OTHER MEAT PRODUCTS. DAVID BERG & CO., Chicago, Ill.
Filed January 14, 1920. Serial No. 127,109. PUBLISHED JUNE 21, 1921.

147,546. MIXED CANARY-SEEDS. ELIAS BERNSTEIN, New York, N. Y.
Filed October 6, 1920. Serial No. 138,015. PUBLISHED JULY 12, 1921.

147,547. HAIRPINS. THE B F K MANUFACTURING COMPANY, Hartford, Conn.
Filed April 29, 1920. Serial No. 131,770. PUBLISHED JUNE 21, 1921.

147,548. CHOCOLATE LAXATIVE TABLET. ALEX BLACKSTONE, Newark, N. J.
Filed April 21, 1921. Serial No. 146,479. PUBLISHED JUNE 14, 1921.

147,549. GOWNS, LADIES' SUITS, WRAPS, BLOUSES, HATS, SCARFS, NEGLIGÉE, AND LINGERIE. BOSE, INC., New York, N. Y.
Filed April 24, 1920. Serial No. 131,556. PUBLISHED JUNE 21, 1921.

147,550. PIANO-PLAYER ROLLS. ISABELLE MCKEE BLOCH, Seattle, Wash.
Filed October 30, 1920. Serial No. 138,974. PUBLISHED JUNE 7, 1921.

147,551. HEEL-PLATES AND TOE-PLATES FOR BOOTS AND SHOES. BOOTH BROTHERS (DIAL FOUNDRY) LIMITED, Stourbridge, England.
Filed October 29, 1920. Serial No. 138,939. PUBLISHED JUNE 28, 1921.

147,552. FINGER-RINGS OF ALL KINDS. J. B. BOWDEN & COMPANY, New York, N. Y.
Filed March 3, 1921. Serial No. 144,274. PUBLISHED JUNE 14, 1921.

147,553. BRASSIÈRES. THE BOYSHFORM BRASSIERE CO., New York, N. Y.
Filed September 20, 1920. Serial No. 137,355. PUBLISHED JUNE 21, 1921.

147,554. BOOTS AND SHOES OF LEATHER, CANVAS, AND FELT. BRAY & STANLEY, Beverly, Mass.
Filed February 17, 1921. Serial No. 143,680. PUBLISHED JUNE 21, 1921.

147,555. MECHANICAL SPARK-PLUG CLEANERS. WALTER R. BREWER, Chicago, Ill.
Filed February 28, 1921. Serial No. 144,122. PUBLISHED JUNE 14, 1921.

147,556. CANDIES. BROWN & HALEY, Tacoma, Wash.
Filed February 7, 1919. Serial No. 115,670. PUBLISHED DECEMBER 9, 1919.

147,557. HOSIERY, UNDERWEAR, AND KNITTED SWEATERS. BRUMMEL & MENDELSOHN, New York, N. Y.
Filed January 13, 1920. Serial No. 127,078. PUBLISHED JUNE 21, 1921.

147,558. HOSIERY, UNDERWEAR, AND KNITTED SWEATERS. BRUMMEL & MENDELSOHN, New York, N. Y.
Filed January 13, 1920. Serial No. 127,079. PUBLISHED JUNE 21, 1921.

147,559. CERTAIN MACHINES AND TOOLS FOR ELECTRICAL WORKERS. THE BUSH ELECTRIC COMPANY, Cleveland, Ohio.
Filed February 24, 1920. Serial No. 128,753. PUBLISHED JUNE 28, 1921.

147,560. MUCILAGE. BUXTON & SKINNER PRINTING AND STATIONERY COMPANY, St. Louis, Mo.
Filed November 19, 1920. Serial No. 139,844. PUBLISHED JUNE 28, 1921.

147,561. A PUBLICATION PUBLISHED MONTHLY. CALIFORNIA STATE AUTOMOBILE ASSOCIATION, San Francisco, Calif.
Filed February 14, 1921. Serial No. 143,538. PUBLISHED JUNE 21, 1921.

147,562. CANDY. THE CATAWBA CANDY COMPANY, Sandusky, Ohio.
Filed March 23, 1921. Serial No. 145,098. PUBLISHED JUNE 14, 1921.

147,563. DRESSES. CEE BEE GEE DRESS CO., New York, N. Y.
Filed February 14, 1921. Serial No. 143,543. PUBLISHED JUNE 21, 1921.

147,564. CANDY. G. W. CHASE & SON MER. CO., St. Joseph, Mo.
Filed March 28, 1921. Serial No. 145,312. PUBLISHED JUNE 28, 1921.

147,565. NECKTIES OR BOWS. ALBERT B. CHAUNCEY, Boston, Mass.
Filed January 29, 1921. Serial No. 142,923. PUBLISHED JUNE 21, 1921.

147,566. ESSENCES, FRUIT-OILS, AND SYRUP FOR FOOD-FLAVORING PURPOSES. CHEMICAL WORKS FLORA, Dübendorf, Switzerland.
Filed December 28, 1920. Serial No. 141,553. PUBLISHED JUNE 28, 1921.

147,567. WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE COMPRISED IN THE WHOLE OR IN PART OF SILK. CHENEY BROTHERS, South Manchester, Conn.
Filed March 23, 1921. Serial No. 145,099. PUBLISHED JUNE 14, 1921.

147,568. KNIFE AND TOOL SHARPENERS. S. CHENEY & SON, Manlius, N. Y.
Filed February 23, 1921. Serial No. 143,913. PUBLISHED JUNE 14, 1921.

147,569. ICE-CREAM AND BUTTER. COLUMBIA DAIRY PRODUCTS COMPANY, INC., Vancouver, Wash.
Filed July 31, 1920. Serial No. 135,635. PUBLISHED JUNE 21, 1921.

147,570. HATBANDS, SKIRT AND DRESS BELTINGS, PUMP-BOWS, SHOE-LACES, BRAIDS, AND GARMENT-BINDINGS. THE COLUMBIA RIBBON CO., Paterson, N. J.
Filed July 12, 1920. Serial No. 134,810. PUBLISHED JUNE 21, 1921.

147,571. TOILET-SEATS. COM-BAH FIBROID COMPANY, Boston, Mass.
Filed November 12, 1920. Serial No. 139,564. PUBLISHED JUNE 28, 1921.

147,572. WHEAT-FLOUR. COMMERCIAL UNION OF AMERICA, INCORPORATED, New York, N. Y.
Filed November 12, 1920. Serial No. 139,566. PUBLISHED JUNE 28, 1921.

147,573. WHEAT-FLOUR. COMMERCIAL UNION OF AMERICA, INCORPORATED, New York, N. Y.
Filed November 12, 1920. Serial No. 139,567. PUBLISHED JUNE 28, 1921.

147,574. VARNISH. COOK PAINT & VARNISH COMPANY, Kansas City, Mo.
Filed February 21, 1921. Serial No. 143,854. PUBLISHED JUNE 14, 1921.

147,575. VARNISH. COOK PAINT & VARNISH COMPANY, Kansas City, Mo.
Filed February 21, 1921. Serial No. 143,855. PUBLISHED JUNE 14, 1921.

147,576. VARNISH. COOK PAINT & VARNISH COMPANY, Kansas City, Mo.
Filed February 21, 1921. Serial No. 143,856. PUBLISHED JUNE 14, 1921.

147,577. SUGAR. CORN PRODUCTS REFINING CO., New York, N. Y.
Filed February 12, 1921. Serial No. 143,484. PUBLISHED JUNE 14, 1921.

147,578. SOFT DRINKS DRAWN FROM THE FOUNTAIN OR SEALED IN BOTTLES. CRESCENT BOTTLING CO. INC., Newark, N. J.
Filed March 18, 1920. Serial No. 129,875. PUBLISHED JUNE 21, 1921.

147,579. CANDY. CURTISS CANDY CO., Chicago, Ill.
Filed December 5, 1919. Serial No. 125,600. PUBLISHED JUNE 21, 1921.

147,580. CANDY. CURTISS CANDY CO., Chicago, Ill.
Filed March 28, 1921. Serial No. 145,316. PUBLISHED JUNE 28, 1921.

147,581. MANUFACTURED HORSE, HOG, DAIRY, CALF, POULTRY, AND STOCK FEEDS. CURTISS GRAIN CORPORATION, Buffalo, N. Y.
Filed October 22, 1920. Serial No. 138,673. PUBLISHED JUNE 21, 1921.

147,582. CLOCK-CASES. HUNTER H. CUTTING, Rockford, Ill.
Filed October 7, 1919. Serial No. 123,515. PUBLISHED JUNE 14, 1921.

147,583. POWER-DRIVEN BICYCLES. CYCLEMOTOR CORPORATION, Rochester, N. Y.
Filed May 28, 1920. Serial No. 133,046. PUBLISHED JUNE 21, 1921.

147,584. A PHENOL GLYCERIN FOR BURNS; SHORTENS DURATION AND LESSENS BURNS. DARBONNIER & SAPERSTEIN, Atlanta, Ga.
Filed February 12, 1921. Serial No. 143,487. PUBLISHED JULY 26, 1921.

147,585. AN ANTISEPTIC POWDER OF COPPER, ALUM, AND ZINC FOR WOMEN'S PERSONAL HYGIENE. DARBONNIER & SAPERSTEIN, Atlanta, Ga.
Filed February 12, 1921. Serial No. 143,488. PUBLISHED JULY 26, 1921.

147,586. CREAM-FILLED PASTRIES. DAVIS SYSTEM BAKERY, Kansas City, Mo.
Filed December 24, 1920. Serial No. 141,481. PUBLISHED JUNE 28, 1921.

147,587. HOSIERY. DOLLFUS MIEG & CIE. SOCIETE ANONYME, Mulhouse, France.
Filed December 8, 1920. Serial No. 140,780. PUBLISHED JUNE 28, 1921.

147,588. HOSIERY. DOLLFUS MIEG & CIE. SOCIETE ANONYME, Mulhouse, France.
Filed December 8, 1920. Serial No. 140,785. PUBLISHED JUNE 28, 1921.

147,589. FERROUS METALS. DUQUESNE STEEL FOUNDRY COMPANY, Pittsburgh, Pa.
Filed December 17, 1920. Serial No. 141,216. PUBLISHED JUNE 28, 1921.

147,590. FERROUS METALS. DUQUESNE STEEL FOUNDRY COMPANY, Pittsburgh, Pa.
Filed December 17, 1920. Serial No. 141,217. PUBLISHED JUNE 28, 1921.

147,591. FERROUS METALS. DUQUESNE STEEL FOUNDRY COMPANY, Pittsburgh, Pa.
Filed December 17, 1920. Serial No. 141,218. PUBLISHED JUNE 28, 1921.

147,592. ARTIFICIAL PEARLS. CLARENCE E. EDSON, Cleveland, Ohio.
Filed April 1, 1921. Serial No. 145,557. PUBLISHED JUNE 14, 1921.

147,593. CANDY. CLARENCE E. EDSON, Cleveland, Ohio.
Filed April 1, 1921. Serial No. 145,558. PUBLISHED JUNE 28, 1921.

147,594. MOTION-PICTURES. EDUCATIONAL FILMS CORPORATION OF AMERICA, New York, N. Y.
Filed April 1, 1921. Serial No. 145,555. PUBLISHED JUNE 28, 1921.

147,595. TIME-STAMPS. A. EHRENREICH & CIE., Düsseldorf-Oberkassel, Germany.
Filed April 2, 1920. Serial No. 130,528. PUBLISHED MARCH 22, 1921.

147,596. BREAD. ELECTRIK MAID BAKE SHOPS, St. Paul, Minn.
Filed November 13, 1919. Serial No. 124,852. PUBLISHED MARCH 30, 1920.

147,597. TENNIS-COURTS AND PLAYING-COURTS OF SPECIALLY-PREPARED MATERIALS, PAVEMENTS, AND PROMENADES. THE EN-TOUT-CAS COMPANY LIMITED, Leicester, England.
Filed January 13, 1921. Serial No. 142,205. PUBLISHED JUNE 21, 1921.

147,598. THERMOSTATICALLY-OPERATED VALVES. THE ESTATE STOVE COMPANY, Hamilton, Ohio.
Filed March 17, 1921. Serial No. 144,854. PUBLISHED JUNE 28, 1921.

147,599. WATCHES AND THEIR PARTS. FABRIQUE D'HORLOGERIE ELECTA GALLET & CO. S. A., La Chaux-de-Fonds, Switzerland.
Filed May 28, 1920. Serial No. 133,048. PUBLISHED JUNE 14, 1921.

147,600. WATCHES AND THEIR PARTS. FABRIQUE D'HORLOGERIE ELECTA GALLET & CO. S. A., La Chaux-de-Fonds, Switzerland.
Filed May 28, 1920. Serial No. 133,049. PUBLISHED JUNE 14, 1921.

147,601. ELECTRIC-BATTERY TESTERS. FOREST ELECTRIC CO., Newark, N. J.
Filed March 28, 1921. Serial No. 145,101. PUBLISHED JUNE 28, 1921.

147,602. FRESH CITRUS FRUITS. CHESTER C. FOSGATE CO., Orlando, Fla.
Filed April 1, 1921. Serial No. 145,559. PUBLISHED JUNE 28, 1921.

147,603. PEANUTS IN THE SHELL. FRANKLIN PEANUT COMPANY, Franklin, Va.
Filed March 16, 1921. Serial No. 144,810. PUBLISHED JUNE 28, 1921.

147,604. CALENDER STOCK-SHELLS. THE W. F. GAMMETER COMPANY, Cadiz, Ohio.
Filed March 31, 1921. Serial No. 145,505. PUBLISHED JUNE 28, 1921.

147,605. CERTAIN NAMED JEWELRY, BADGES, EMBLEMS, MEDALS, AND TROPHIES. THOMAS D. GARD CO. INC., Worcester, Mass.
Filed March 16, 1920. Serial No. 129,782. PUBLISHED JUNE 7, 1921.

147,606. CERTAIN ARTICLES OF FURNITURE. THE GENERAL FIREPROOFING CO., Youngstown, Ohio.
Filed August 24, 1920. Serial No. 136,410. PUBLISHED JUNE 21, 1921.

147,607. MARBLE CUT TO SIZE, FINISHED MARBLE, AND CUT STONE. THE GEORGIA MARBLE COMPANY, Tate, Ga.
Filed November 24, 1920. Serial No. 140,104. PUBLISHED JUNE 21, 1921.

147,608. COMBINATION WHEELED HOES, CULTIVATORS, AND PLOWS. JOHN E. GILSON, Port Washington, Wis.
Filed April 1, 1920. Serial No. 130,469. PUBLISHED JUNE 28, 1921.

147,609. CANDY. THE MAX GLICK CO., Cleveland, Ohio.
Filed March 16, 1921. Serial No. 144,826. PUBLISHED JUNE 28, 1921.

147,610. HOSE MADE OF RUBBER REINFORCED WITH FABRIC. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed February 17, 1920. Serial No. 128,500. PUBLISHED JUNE 21, 1921.

147,611. HOT-AIR FURNACES. ROBERT GORDON INCORPORATED, Chicago, Ill.
Filed January 22, 1921. Serial No. 142,618. PUBLISHED JUNE 21, 1921.

147,612. BINDER-TWINE. GRAIN GROWERS GRAIN COMPANY, Minneapolis, Minn.
Filed April 1, 1920. Serial No. 130,471. PUBLISHED JUNE 21, 1921.

147,613. LACE-LEATHER AND CUT LACES OF LEATHER. THE GRATON & KNIGHT MANUFACTURING COMPANY, Worcester, Mass.
Filed May 9, 1919. Serial No. 118,308. PUBLISHED JUNE 21, 1921.

147,614. WATCHES, WATCHCASES, AND WATCH-MOVEMENTS. B. GUTTER & SONS, New York, N. Y.
Filed November 11, 1920. Serial No. 139,523. PUBLISHED JUNE 14, 1921.

147,615. WHITE-SAPPHIRE FINGER-RINGS. SIGSBEE GUTTER, New York, N. Y.
Filed November 11, 1920. Serial No. 139,530. PUBLISHED JUNE 14, 1921.

147,616. RUBBER PATCHES FOR AUTOMOBILE-TUBE PUNCTURES AND TIRE-REPAIRS. HADLEY BROS.-UHL COMPANY, St. Louis, Mo.
Filed December 2, 1920. Serial No. 140,520. PUBLISHED JUNE 28, 1921.

147,617. SILKS, ARTIFICIAL SILK, AND CERTAIN MIXTURES IN THE PIECE. EDWARD G. HAGEDORN, New York, N. Y.
Filed April 2, 1921. Serial No. 145,623. PUBLISHED JUNE 14, 1921.

147,618. CANDY. WALTER T. HALL & COMPANY, Ottumwa, Iowa.
Filed April 12, 1921. Serial No. 146,076. PUBLISHED JULY 19, 1921.

147,619. DRYING-MACHINES FOR DRYING GRAINS, SEEDS, GRANULAR AND FIBROUS MATTER, ORES, CRUSHED ROCK, &c. EDNA W. HAMACHER, Hannibal, Mo.
Filed March 18, 1921. Serial No. 144,909. PUBLISHED JUNE 28, 1921.

147,620. SHEEP-SHEARS, MULE-SHEARS, GRASS, HEDGE, AND PRUNING SHEARS. WILLIAM G. HEIMERDINGER, Louisville, Ky.
Filed December 20, 1920. Serial No. 141,308. PUBLISHED JUNE 28, 1921.

147,621. MAYONNAISE, MINCE-MEAT, AND SALTED PEANUTS. HEINTZ, MERKLE & COMPANY, Philadelphia, Pa.
Filed November 13, 1920. Serial No. 139,615. PUBLISHED JUNE 28, 1921.

147,622. COTTON GOODS IN THE PIECE. E. M. HOLT PLAID MILLS, INC., Burlington, N. C.
Filed March 3, 1921. Serial No. 144,283. PUBLISHED JUNE 14, 1921.

147,623. LADIES' AND MISSES' DRESSES IN ONE-PIECE GARMENTS. ALBERT HARRIS, New York, N. Y.
Filed January 7, 1921. Serial No. 141,948. PUBLISHED JUNE 21, 1921.

147,624. BRIQUETS MADE FROM COAL. INTERNATIONAL COAL PRODUCTS CORPORATION, Bristol, Va., and New York, N. Y.
Filed September 20, 1920. Serial No. 137,379. PUBLISHED JUNE 28, 1921.

147,625. BRIQUETS MADE FROM COAL. INTERNATIONAL COAL PRODUCTS CORPORATION, Bristol, Va., and New York, N. Y.
Filed September 20, 1920. Serial No. 137,380. PUBLISHED JUNE 28, 1921.

147,626. CANDY. ROBERT A. JOHNSTON COMPANY, Milwaukee, Wis.
Filed March 31, 1921. Serial No. 145,516. PUBLISHED JUNE 28, 1921.

147,627. FINGER-RINGS. NATHANIEL M. KISSENGER, Los Angeles, Calif.
Filed April 25, 1921. Serial No. 146,716. PUBLISHED JUNE 14, 1921.

147,628. LADIES' AND MISSES' LEATHER SHOES. THE KROHN-FECHHEIMER CO., Cincinnati, Ohio.
Filed April 10, 1920. Serial No. 130,964. PUBLISHED JUNE 21, 1921.

147,629. RAW GLASS USED FOR SPECTACLES AND OPTICAL INSTRUMENTS. LA SOCIETE ANONYME DES ANCIENS ETABLISSEMENTS BERNARD, VERRERIE DE BAGNEAUX, Bagneaux-sur-Loing, France.
Filed October 19, 1920. Serial No. 138,505. PUBLISHED JUNE 21, 1921.

147,630. RAW GLASS USED FOR SPECTACLES AND OPTICAL INSTRUMENTS. LA SOCIETE ANONYME DES ANCIENS ETABLISSEMENTS BERNARD, VERRERIE DE BAGNEAUX, Bagneaux-sur-Loing, France.
Filed October 19, 1920. Serial No. 138,506. PUBLISHED JUNE 21, 1921.

147,631. AUTO DRI-MIST, (A POLISH;) CEDAR FLOOR-POLISH; DUCK-BACK WAX, (A POLISH.) EDWARD K. LINCOLN, New York, N. Y.
Filed March 16, 1921. Serial No. 144,820. PUBLISHED JUNE 14, 1921.

147,632. ADHESIVE VERMIN-EXTERMINATOR. LEOPOLD J. LIPPMANN, New York, N. Y., assignor to Holdsem Company, Inc., New York, N. Y., a Corporation of New York.
Filed December 21, 1920. Serial No. 141,380. PUBLISHED JUNE 28, 1921.

147,633. PASTE, BEING AN ADHESIVE ARTICLE. LIVERPOOL ADHESIVE PASTE CO. LTD., Liverpool, England.
Filed March 26, 1921. Serial No. 145,277. PUBLISHED JUNE 28, 1921.

147,634. CERTAIN NAMED JEWELRY. E. L. LOEBE CO., Providence, R. I.
Filed February 2, 1921. Serial No. 143,092. PUBLISHED JUNE 7, 1921.

147,635. COMPOSITION RUBBER CEMENT. LORD & BROWN, Des Moines, Iowa.
Filed March 31, 1921. Serial No. 145,519. PUBLISHED JUNE 28, 1921.

147,636. A PERIODICAL PUBLICATION. MCGRAW-HILL COMPANY, INC., New York, N. Y.
Filed December 27, 1920. Serial No. 141,530. PUBLISHED JUNE 21, 1921.

147,637. POLISHES AND DRESSINGS FOR LEATHER BOOTS AND SHOES. JACK MAGENHEIM, Binghamton, N. Y.
Filed September 12, 1919. Serial No. 122,602. PUBLISHED JUNE 21, 1921.

147,638. RUBBER PATCHING-STOCK AND TRANSPARENT CEMENT. BELLE M. MAJOR, Detroit, Mich.
Filed May 12, 1921. Serial No. 147,631. PUBLISHED JUNE 28, 1921.

147,639. BUN-TINS, ALUMINUM SAUCEPANS AND STEW-PANS. FREDERIC PESMAN MATTHEWS, London, England.
Filed April 13, 1920. Serial No. 131,079. PUBLISHED JUNE 28, 1921.

147,640. PREPARED CHOCOLATE. THE MAURICE COMPANY, Cleveland, Ohio.
Filed December 24, 1920. Serial No. 141,499. PUBLISHED JUNE 28, 1921.

147,641. WOMEN'S AND MISSES' HOSE. ISRAEL MICHELSOHN, New York, N. Y.
Filed February 25, 1921. Serial No. 144,635. PUBLISHED JUNE 14, 1921.

147,642. BELTS FOR PERSONAL WEAR. THE MILLER RUBBER COMPANY, Akron, Ohio.
Filed February 2, 1921. Serial No. 143,068. PUBLISHED JUNE 21, 1921.

147,643. LEATHER LINK BELTS, ENDLESS BELTS, LEATHER DISKS, LEATHER PACKINGS AND WASHERS, AND CLUTCH-LEATHERS. MITCHELL AND SMITH INC., Boston, Mass.
Filed March 16, 1921. Serial No. 144,928. PUBLISHED JUNE 28, 1921.

147,644. A VEGETABLE EXTRACT IN PASTE FORM USED AS BASE AND FLAVORING FOR FOODS. MORE FOOD PRODUCTS, INC., New York, N. Y.
Filed October 13, 1920. Serial No. 138,260. PUBLISHED JUNE 28, 1921.

147,645. PNEUMATIC PRESSURE SYSTEMS FOR PUMPING, STORING, AND SUPPLYING WATER OR OTHER FLUIDS. THE MONARCH ENGINEERING COMPANY, Dayton, Ohio.
Filed February 21, 1921. Serial No. 143,876. PUBLISHED JUNE 14, 1921.

147,646. GLUE. MONITE WATER PROOF GLUE COMPANY, Minneapolis, Minn.
Filed March 26, 1921. Serial No. 145,280. PUBLISHED JUNE 28, 1921.

147,647. COUGH-SYRUP. CHARLES J. MORIN, Waterville, Me.
Filed March 7, 1921. Serial No. 144,401. PUBLISHED JUNE 14, 1921.

147,648. A PRESERVATIVE AND POLISH FOR AUTOMOBILE-BODIES, PIANOS, FURNITURE, &c. CHARLES A. MUNDON, Parsons, Kans.
Filed March 8, 1921. Serial No. 144,466. PUBLISHED JUNE 14, 1921.

147,649. WRENCHES. DUNCAN C. MUNRO, Windsor, Ontario, Canada.
Filed February 23, 1921. Serial No. 143,936. PUBLISHED JUNE 14, 1921.

147,650. WOMEN'S DRESSES, COATS, SUITS, AND FROCKS. NANCY-PAM FROCKS, Forest Hills, N. Y.
Filed January 11, 1921. Serial No. 142,092. PUBLISHED JUNE 21, 1921.

147,651. WINDOW VALANCES, PANELS, AND DRAPE-SHADES MADE UP OF COTTON GOODS. THE NATIONAL DECORATIVE COMPANY, Camden, N. J.
Filed September 4, 1920. Serial No. 136,847. PUBLISHED JUNE 21, 1921.

147,652. CERTAIN NAMED MEDICINAL, CHEMICAL, AND PHARMACEUTICAL PREPARATIONS. NATIONAL DRUG STORES CORPORATION, New York, N. Y.
Filed March 19, 1920. Serial No. 129,947. PUBLISHED JUNE 21, 1921.

147,653. WIGS. NATIONAL HAIR GOODS CO., Chicago, Ill.
Filed June 4, 1920. Serial No. 133,278. PUBLISHED AUGUST 10, 1920.

147,654. WHITE LEAD AND LEAD OXIDS. NATIONAL LEAD COMPANY OF CALIFORNIA, San Francisco, Calif.
Filed March 25, 1921. Serial No. 145,228. PUBLISHED JUNE 14, 1921.

147,655. WHEAT-FLOUR. THE NEBRASKA CONSOLIDATED MILLS COMPANY, Grand Island and Hastings, Nebr.
Filed January 21, 1921. Serial No. 142,565. PUBLISHED JUNE 21, 1921.

147,656. WOVEN COTTON PIECE GOODS. NEUSS, HESSLEIN & CO., INC., New York, N. Y.
Filed January 31, 1921. Serial No. 142,997. PUBLISHED JUNE 21, 1921.

147,657. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass.
Filed February 21, 1921. Serial No. 143,886. PUBLISHED JUNE 14, 1921.

147,658. CERTAIN NAMED PIECE GOODS AND BLANKETS. NORTH BILLERICA CO., North Billerica, Mass.
Filed October 5, 1920. Serial No. 137,956. PUBLISHED JUNE 21, 1921.

147,659. SCENERY. ARTHUR W. OSMENCK, Chicago, Ill.
Filed October 22, 1920. Serial No. 138,687. PUBLISHED JUNE 21, 1921.

147,660. CANDY. O'CONNOR CANDY CO., Darlington, Wis.
Filed March 26, 1921. Serial No. 145,285. PUBLISHED JUNE 28, 1921.

147,661. AUTOMOBILE-RADIATORS. OHIO EXPERT AUTO RADIATOR COMPANY, Cincinnati, Ohio.
Filed November 26, 1920. Serial No. 140,207. PUBLISHED JUNE 21, 1921.

147,662. OIL AND GAS BURNERS. OLIVER OIL-GAS BURNER & MACHINE CO., St. Louis, Mo.
Filed November 15, 1920. Serial No. 139,675. PUBLISHED JUNE 21, 1921.

147,663. A CLEANSING MATERIAL FOR HANDS AND SKIN. OLIVER OIL-GAS BURNER & MACHINE CO., St. Louis, Mo., and San Francisco, Calif.
Filed November 26, 1920. Serial No. 140,201. PUBLISHED JUNE 21, 1921.

147,664. PRUNE-TREES. OREGON NURSERY COMPANY, Orenco, Oreg.
Filed February 1, 1921. Serial No. 143,057. PUBLISHED JUNE 21, 1921.

147,665. BRACES FOR WEAR, SOCK AND STOCKING SUSPENDERS, GARTERS, AND HOSIERY. JOHN PATTERSON, JUNR., Aldershot, England.
Filed December 28, 1920. Serial No. 141,561½. PUBLISHED JUNE 28, 1921.

147,666. WATERPROOF COATS. PEARSON BROTHERS, London, England.
Filed February 23, 1921. Serial No. 143,949. PUBLISHED JUNE 21, 1921.

147,667. SOIL-BACTERIA. CHARLES F. PENNEWELL, San Francisco, Calif.
Filed October 19, 1920. Serial No. 138,495. PUBLISHED JUNE 21, 1921.

147,668. FRAMES FOR AUTOMOBILE VEHICLES AND PARTS THEREOF. THE PIERCE-ARROW MOTOR CAR COMPANY, Buffalo, N. Y.
Filed October 7, 1920. Serial No. 138,062. PUBLISHED JUNE 21, 1921.

147,669. BODIES FOR AUTOMOBILES AND PARTS THEREOF. THE PIERCE-ARROW MOTOR CAR COMPANY, Buffalo, N. Y.
Filed November 1, 1920. Serial No. 139,047. PUBLISHED JUNE 21, 1921.

147,670. CERTAIN FARM IMPLEMENTS. THE T. C. POWER COMPANY, Helena, Mont.
Filed May 4, 1920. Serial No. 132,034. PUBLISHED JUNE 28, 1921.

147,671. GINGER-ALE. PRIMALT PRODUCTS COMPANY, Chicago, Ill.
Filed December 21, 1920. Serial No. 141,388. PUBLISHED MAY 3, 1921.

147,672. COOKING-FATS. THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio.
Filed March 31, 1921. Serial No. 145,529. PUBLISHED JUNE 28, 1921.

147,673. DYED HOSIERY. W. RAVEN & CO. LTD., Leicester, England.
Filed July 27, 1920. Serial No. 135,454. PUBLISHED JUNE 28, 1921.

147,674. CONSTRUCTION MATERIALS — NAMELY, INTERIOR AND EXTERIOR BUILDING-STONES, STREET-CURBING, AND CEMETERY-COPING. RAYMOND GRANITE COMPANY, San Francisco and Los Angeles, Calif.
Filed January 3, 1921. Serial No. 141,604. PUBLISHED JUNE 28, 1921.

147,675. AUTOMOBILES. REMINGTON MOTORS INC., New York, N. Y.
Filed May 10, 1920. Serial No. 132,267. PUBLISHED NOVEMBER 2, 1920.

147,676. FABRIC BELTING. REPUBLIC-BELTING COMPANY, INC., Baltimore, Md.
Filed June 24, 1920. Serial No. 134,143. PUBLISHED JUNE 21, 1921.

147,677. STOCK FEEDS. BOLLING LYNN ROBERTSON, Manassas, Va.
Filed August 28, 1919. Serial No. 122,080. PUBLISHED JUNE 21, 1921.

147,678. SPARE-TIRE CARRIERS. LOUIS ROTHSCHILD, Philadelphia, Pa.
Filed June 14, 1920. Serial No. 133,681. PUBLISHED JUNE 28, 1921.

147,679. CERTAIN ARTICLES OF CLOTHING FOR WOMEN, CHILDREN, AND INFANTS. THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y.
Filed February 25, 1921. Serial No. 144,050. PUBLISHED JUNE 14, 1921.

147,680. HAIR-NETS. SAMSTAG & HILDER BROS., New York, N. Y.
Filed March 18, 1921. Serial No. 144,942. PUBLISHED JUNE 14, 1921.

147,681. SELF-RISING WHEAT-FLOUR. SCHOENING-KOENIGSMARK MILLING CO., Valmeyer, Ill.
Filed February 23, 1921. Serial No. 143,960. PUBLISHED JUNE 21, 1921.

147,682. MATTRESSES. JOHN A. SCHWARZ, INC., New York and Brooklyn, N. Y.
Filed July 22, 1920. Serial No. 135,307. PUBLISHED JUNE 28, 1921.

147,683. CERTAIN NAMED RAILWAY-CAR ACCESSORIES. SCULLIN STEEL CO., St. Louis, Mo.
Filed December 27, 1920. Serial No. 141,535. PUBLISHED JUNE 21, 1921.

147,684. DIAPER-CLOTH. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed September 25, 1920. Serial No. 137,643. PUBLISHED JUNE 28, 1921.

147,685. PHONOGRAPH-CABINETS AND WOODEN STANDS AND SUPPORTS FOR THE SAME. SEARS, ROEBUCK AND COMPANY, New York, N. Y., and Chicago, Ill.
Filed October 4, 1920. Serial No. 137,894. PUBLISHED JUNE 28, 1921.

147,686. CERTAIN ARTICLES OF FOOD. HELPY SELFY, Dallas, Tex.
Filed July 13, 1920. Serial No. 134,888. PUBLISHED JUNE 21, 1921.

147,687. SHOVELS AND SPADES. SHAPLEIGH HARDWARE COMPANY, St. Louis, Mo.
Filed February 19, 1921. Serial No. 143,843. PUBLISHED JUNE 14, 1921.

147,688. SLIDES FOR WATCH-GUARDS, SAUTOIRS, AND THE LIKE. CHARLES H. SHERMAN, North Attleboro, Mass.
Filed February 8, 1921. Serial No. 143,332. PUBLISHED JUNE 14, 1921.

147,689. AUTOMOBILE TOW-LINES. THE SMITH-MONARK COMPANY, Cleveland, Ohio.
Filed April 23, 1920. Serial No. 131,542. PUBLISHED JUNE 28, 1921.

147,690. CERTAIN DESCRIBED SURFACING AND FINISHING COMPOSITION. ROLAND L. SMITH, Belmont, Mass.
Filed May 6, 1920. Serial No. 132,115. PUBLISHED JUNE 21, 1921.

147,691. WATER-GAGES, WATER-COLUMNS, AND CERTAIN GAGE-GLASS SPECIALTIES. S. S. P. MANUFACTURING COMPANY, Chicago, Ill.
Filed March 17, 1921. Serial No. 144,878. PUBLISHED JUNE 28, 1921.

147,692. CERTAIN TOOLS. THE STANLEY WORKS, New Britain, Conn.
Filed January 6, 1921. Serial No. 141,929. PUBLISHED JUNE 28, 1921.

147,696. PLANES. THE STANLEY WORKS, New Britain, Conn.
Filed March 18, 1921. Serial No. 144,945. PUBLISHED JUNE 28, 1921.

147,694. METER, WATCH, AND INDUSTRIAL JEWELS AND SYNTHETIC AND NATURAL CUT STONES. HERMAN D. STEIN, Philadelphia, Pa.
Filed January 18, 1921. Serial No. 142,414. PUBLISHED JUNE 14, 1921.

147,695. PIPES OR ELECTRIC CONDUITS TO CARRY ELECTRIC WIRES—NAMELY, RIGID STEEL CONDUITS. THE STEELDUCT COMPANY, Youngstown, Ohio.
Filed January 31, 1921. Serial No. 143,016. PUBLISHED JULY 12, 1921.

147,696. GARTERS. A. STEIN & COMPANY, Chicago, Ill.
Filed January 10, 1921. Serial No. 142,066. PUBLISHED JUNE 28, 1921.

147,697. CERTAIN ARTICLES OF CLOTHING FOR PHYSICIANS, DENTISTS, THEIR ASSISTANTS AND PATIENTS. JOHN J. STEIN, Chicago, Ill., assignor to Northwestern Coat Company, Incorporated, a Corporation of Illinois.
Filed November 15, 1920. Serial No. 139,680. PUBLISHED JUNE 28, 1921.

147,698. MACHINES FOR FORMING POLYGONAL ARTICLES, GEARS, &c., AND GEARS AND OTHER MACHINE ELEMENTS. STEVENSON GEAR COMPANY, Indianapolis, Ind.
Filed November 24, 1920. Serial No. 140,148. PUBLISHED JULY 12, 1921.

147,699. HOSIERY. THE LOUIS STIX CO., Cincinnati, Ohio.
Filed February 23, 1921. Serial No. 143,961. PUBLISHED JUNE 14, 1921.

147,700. GUM-ARABIC, MOTHER-OF-PEARL SHELLS, IVORY, AND DARI-SEED. SUDAN IMPORT AND EXPORT COMPANY, Cairo, Egypt, and Khartoum, Sudan.
Filed November 1, 1920. Serial No. 139,059. PUBLISHED JUNE 28, 1921.

147,701. INTERNAL-COMBUSTION ENGINES AND CERTAIN ACCESSORIES THEREFOR. SVENSKA AKTIEBOLAGET NOBEL-DIESEL, Nynäshamn, Sweden.
Filed April 7, 1920. Serial No. 130,775. PUBLISHED JUNE 28, 1921.

147,702. NON-ALCOHOLIC BEVERAGES AND SYRUP FOR FLAVORING THE SAME MADE FROM FRUITS. SWEET ORCHARD COMPANY, Chicago, Ill.
Filed January 3, 1921. Serial No. 141,810. PUBLISHED FEBRUARY 22, 1921.

147,703. TIE-CLASPS, COLLAR-HOLDERS, COLLAR-BUTTONS, AND PINS FOR PERSONAL ADORNMENT. TAUNTON PEARL WORKS, INC., Taunton, Mass.
Filed March 7, 1921. Serial No. 144,436. PUBLISHED JUNE 14, 1921.

147,704. BOBBIN-CLEANING MACHINES. THE TERRELL MACHINE COMPANY, Charlotte, N. C.
Filed March 25, 1921. Serial No. 145,240. PUBLISHED JUNE 28, 1921.

147,705. GEARS FOR TRANSMITTING POWER FOR AUTOMOTIVE AND OTHER PURPOSES. THE TIMKEN-DETROIT AXLE COMPANY, Detroit, Mich.
Filed March 19, 1921. Serial No. 144,966. PUBLISHED JUNE 28, 1921.

147,706. KNITTED UNDERWEAR FOR WOMEN AND CHILDREN IN ONE AND TWO PIECE GARMENTS. UNION MILLS, INC., New York, N. Y.
Filed February 24, 1921. Serial No. 144,066. PUBLISHED JUNE 14, 1921.

147,707. COLLETS, THREAD-CUTTING DIES, AND GUIDES THEREFOR, DIE-HOLDERS, SCREW-PLATES, SCREW-PLATE STOCKS. UNION TWIST DRILL COMPANY, Athol and Mansfield, Mass.
Filed December 15, 1920. Serial No. 141,145. PUBLISHED JUNE 28, 1921.

147,708. CERTAIN NAMED FOODS. THE UNITED STATES AND SOUTH AMERICA CORPORATION, New York, N. Y.
Filed April 24, 1920. Serial No. 131,610. PUBLISHED JUNE 21, 1921.

147,709. MILKING-MACHINES, INCLUDING PARTS AND APPURTENANCES THEREOF, PULSATORS, TEAT-CUPS, RECEIVERS, AND PUMPS. THE UNIVERSAL MILKING MACHINE COMPANY, Columbus, Ohio.
Filed March 21, 1921. Serial No. 145,047. PUBLISHED JUNE 28, 1921.

147,710. WHEAT-FLOUR. BECH VAN SICLEN & CO., INC., San Francisco, Calif.
Filed October 5, 1920. Serial No. 137,914. PUBLISHED JUNE 21, 1921.

147,711. PAPER BAGS. VICTORY BAG & PAPER CO., Chicago, Ill.
Filed October 14, 1918. Serial No. 178,739. PUBLISHED NOVEMBER 25, 1919.

147,712. LEAD-PENCILS. THE WAHL COMPANY, Chicago, Ill.
Filed October 1, 1917. Serial No. 196,550. PUBLISHED APRIL 8, 1919.

147,713. A CERTAIN NAMED CHEMICAL COMPOUND. E. M. & F. WALDO, New York, N. Y.
Filed April 4, 1921. Serial No. 145,730. PUBLISHED JUNE 14, 1921.

147,714. ARTICLES OF JEWELRY—NAMELY, WEDDING-RINGS AND ENGAGEMENT-RINGS. WARNEKE & HAY CO. INC., New York, N. Y.
Filed March 1, 1921. Serial No. 144,268. PUBLISHED JUNE 14, 1921.

147,715. HOSIERY FOR MEN, WOMEN, AND CHILDREN. WEARWEVE FABRICS CORPORATION, New York, N. Y.
Filed January 12, 1921. Serial No. 142,187. PUBLISHED JUNE 21, 1921.

147,716. CERTAIN NAMED TOILET PREPARATIONS. WEICHSEL BARBER SUPPLY CO., Dallas, Tex.
Filed March 18, 1921. Serial No. 144,951. PUBLISHED JULY 19, 1921.

147,717. SHOES MADE OF LEATHER, CANVAS, AND RUBBER. E. A. WEIL COMPANY, East Savannah, Ga.
Filed January 11, 1921. Serial No. 142,118. PUBLISHED JUNE 28, 1921.

147,718. PYROPHORIC IGNITING DEVICES. WELSBACH COMPANY, Gloucester, N. J.
Filed March 26, 1921. Serial No. 145,298. PUBLISHED JUNE 28, 1921.

147,719. TOOTH-POWDERS. EDWARD A. WELTERS, Jacksonville, Fla.
Filed February 19, 1921. Serial No. 143,847. PUBLISHED JUNE 14, 1921.

147,720. LEATHER SUBSTITUTE, A MANUFACTURED OR ARTIFICIAL LEATHER. WOODWARD & COCHEY, INC., Lynn, Mass.
Filed March 23, 1921. Serial No. 145,146. PUBLISHED JUNE 28, 1921.

147,721. COTTON PIECE GOODS—NAMELY, SHEETINGS, MUSLINS, SHEETS, AND PILLOW-CASES. WYMAN, PARTRIDGE & CO., Minneapolis, Minn.
Filed March 5, 1921. Serial No. 144,370. PUBLISHED JUNE 14, 1921.

147,722. WOOLEN BLANKETS. WYMAN, PARTRIDGE & CO., Minneapolis, Minn.
Filed April 2, 1921. Serial No. 145,659. PUBLISHED JUNE 14, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

OCTOBER 25, 1921.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

147,723. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) R. L. BENNETT & SONS, Paris, Tex.
Filed July 18, 1921. Serial No. 150,488.

BENNETT'S

Particular description of goods.—Cotton-Seed.
Claims use since Nov. 3, 1917.

147,724. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) WILLIAM M. CHAPMAN, New Orleans, La. Filed Apr. 30, 1920. Serial No. 131,857.

Cola Cocktail

Particular description of goods.—A Non-Alcoholic Maltless Beverage Sold as a Soft Drink.
Claims use since February, 1919.

147,725. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CONSOLIDATED RENDERING CO., Boston, Mass. Filed Apr. 30, 1921. Serial No. 147,014.

PREMIUM

Particular description of goods.—Grease for Soap-Making.
Claims use since 1901.

147,726. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE DAYTON RUBBER MANUFACTURING CO., Dayton, Ohio. Filed June 15, 1921. Serial No. 149,175.

DAYTON

Particular description of goods.—Rubber Tires and Tubes.
Claims use since 1906.

147,727. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WM. H. HORSTMANN CO., INC., Los Angeles, Calif.
Filed Apr. 14, 1921. Serial No. 146,175.

Catalina Tuna Line.
Hand Made From Selected Flax
Every Line Warranted
No..... 50 Yds.
6 Connected.

Particular description of goods.—Fishing-Lines.
Claims use since January, 1908.

147,728. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOMAS N. KENYON, Minneapolis, Minn. Filed Feb. 18, 1921. Serial No. 143,766.

CATARRHAL JELLY

Particular description of goods.—Catarrhal Jelly.
Claims use since Jan. 1, 1892.

147,729. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920. Serial No. 140,814.

HARDSPUN

FIELD QUALITY

Particular description of goods.—Bedspreads.
Claims use since 1901.

147,730. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) NATIONAL STAMPING & ELECTRIC WORKS, Chicago, Ill. Filed Oct. 21, 1920. Serial No. 138,721.

NULITE

Particular description of goods.—Gasolene and Kerosene Lanterns, Portable Lamps, Portable Hanging Lamps, and System Lamps.
Claims use since 1908.

147,731. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OMAHA ALFALFA MILLING COMPANY, Omaha, Nebr. Filed May 20, 1921. Serial No. 147,980.

PERFECTION

Particular description of goods.—Horse Feed.
Claims use since Apr. 5, 1910.

147,732. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE PERFECTION HEATER & MANUFACTURING CO., Cleveland, Ohio. Filed Aug. 24, 1920. Serial No. 131,592.

PERFECTION

Particular description of goods.—Exhaust-Gas Motor-Car Heaters.
Claims use since June, 1915.

147,733. (CLASS 3. BAGGAGE, HORSE EQUIPMENT, PORTFOLIOS, AND POCKETBOOKS.) BOOMER & MADISON TRUNK CORPORATION, Petersburg, Va. Filed Mar. 7, 1921. Serial No. 144,628.

3 Genuine PLY

Particular description of goods.—Trunks, Suitcases, and Traveling-Bags.
Claims use since 1916.

147,734. (CLASS 12. CONSTRUCTION MATERIALS.) SEABOARD REFRACTORIES COMPANY, Valentines, Raritan township, N. J. Filed Feb. 1, 1921. Serial No. 143,063.

MIDDLESEX

Particular description of goods.—Refractory Bricks of Standard and Special Shapes.
Claims use since Aug. 1, 1920.

147,735. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEO. P. SEXAUER & SON, Brookings, S. D. Filed Jan. 27, 1921. Serial No. 142,856.

Perfection

Particular description of goods.—Seeds for Food Purposes and Poultry Feeds.
Claims use since about Apr. 1, 1920.

147,736. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) FRANK W. SHUELL, Detroit, Mich. Filed Mar. 28, 1921. Serial No. 145,367.

Ever Hot

Particular description of goods.—Gas Water-Heaters.
Claims use since on or about Nov. 20, 1919.

147,737. (CLASS 26. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed Sept. 7, 1921. Serial No. 152,680.

THE INSTRUMENT OF QUALITY
Sonora
CLEAR AS A BELL

Particular description of goods.—Talking-Machines, Phonographs, Talking-Machine Needles, Sound-Boxes for Talking-Machines, and Music-Boxes.
Claims use since on or about May 1, 1907.

147,738. (CLASS 7. CORDAGE.) TRIBBLE CORDAGE MILLS, INC., Boston, Mass. Filed July 14, 1921. Serial No. 150,376.

HAND LAID
WATERPROOF

Particular description of goods.—Clotheslines.
Claims use since on or about Jan. 1, 1900.

147,739. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed July 8, 1921. Serial No. 150,163.

AIR-CUSHION
CONGRESS
PLAYING CARDS
606
GOLD EDGES
THE U.S. PLAYING CARD CO.
CINCINNATI. U.S.A.

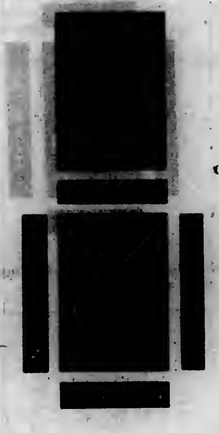
Particular description of goods.—Playing-Cards.
Claims use since about 1881.

147,740. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed July 8, 1921. Serial No. 150,164.

75
NATIONAL CLUB
PLAYING CARDS
THE NATIONAL CARD CO.
THE U.S. PLAYING CARD CO.
MANUFACTURERS & DISTRIBUTORS
CINCINNATI & NEW YORK, U.S.A.

Particular description of goods.—Playing-Cards.
Claims use since about 1890.

147,741. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed July 8, 1921. Serial No. 150,165.



Particular description of goods.—Playing-Cards.
Claims use since about 1890.

147,742. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed July 29, 1921. Serial No. 151,111.



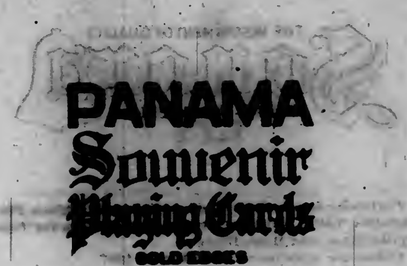
Particular description of goods.—Playing-Cards.
Claims use since 1891.

147,743. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed July 29, 1921. Ser. No. 151,128.



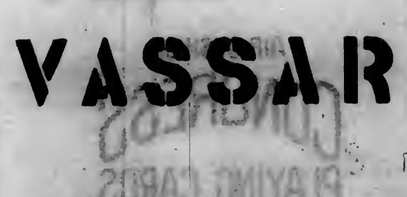
Particular description of goods.—Playing-Cards.
Claims use since about 1914.

147,744. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed July 29, 1921. Serial No. 151,131.



Particular description of goods.—Playing-Cards.
Claims use since about 1906.

147,745. (CLASS 15. OILS AND GREASES.) WILL & BAUMER CANDLE CO. INC., Syracuse, N. Y. Filed May 25, 1921. Serial No. 148,251.



Particular description of goods.—Candles.
Claims use since about May 17, 1917.

TRADE-MARK REGISTRATIONS CANCELED

78,909. HANDKERCHIEFS. H. ROSENTHAL & CO. INC., New York, N. Y.
Registered July 19, 1910. Canceled July 29, 1921.

94,034. A SYRUP FOR BEVERAGES. JOHN L. TYLER, Birmingham, Ala.
Registered October 28, 1913. Canceled September 1, 1921.

110,294. AIRSHIPS. EDWARD HUNTER PAGE, Covington, Va.
Registered May 16, 1916. Canceled September 1, 1921.

115,757. A PHARMACEUTICAL PREPARATION. GRIFFITH CHEMICAL COMPANY, Freeport, Ill.
Registered March 6, 1917. Canceled April 26, 1921.

120,540. GARMENT-PRESSING MACHINES. THE AMERICAN LAUNDRY MACHINERY COMPANY, Norwood, Ohio.
Registered February 10, 1918. Canceled September 13, 1921.

133,646. COTTON BED-BLANKETS. THE ESMOND MILLS, Jersey City, N. J., and New York, N. Y.
Registered August 3, 1920. Canceled June 25, 1921.

136,702. NON-BEVERAGE GRAIN-ALCOHOL. THE GEORGE WIEDEMANN COMPANY, Newport, Ky.
Registered November 2, 1920. Canceled July 29, 1921.

137,437. CANDY. SANITARY FOOD MANUFACTURING CO., St. Paul, Minn.
Registered November 23, 1920. Canceled July 29, 1921.

139,778. METALLIC SHEETS FOR MAKING MOLDS OR MATRICES. THE CONLEY FOIL COMPANY, New York, N. Y.
Registered February 22, 1921. Canceled May 25, 1921.

139,795. ONE AND TWO PIECE UNDERWEAR FOR WOMEN, THE UNDERWEAR MADE OF TEXTILE FABRIC. LOUIS FREIREICH, Chicago, Ill.
Registered February 22, 1921. Canceled September 1, 1921.

140,768. BEARING MATERIALS MADE OF TREATED WOOD. CELLOGRAPH ENGINEERING CORPORATION, Boston, Mass.
Registered March 29, 1921. Canceled July 29, 1921.

141,037. A PREPARATION FOR THE TREATMENT OF AFFECTIONS OF THE THROAT AND PULMONARY DISORDERS. JOSÉ DE JESUS, New York, N. Y.
Registered March 29, 1921. Canceled September 1, 1921.

LABELS

REGISTERED OCTOBER 25, 1921.

23,508.—*Title:* "OUR NATIONAL MAYONNAISE." (For Mayonnaise.) B. ALPERIN, Red Bank, N. J. Filed July 16, 1921.

23,509.—*Title:* "MARSHMALLOW CREAM BANANAS." (For Confectionery-Containers.) FRED W. AMEND Co., Chicago, Ill. Filed May 16, 1921.

23,510.—*Title:* "RIVET SHANK BUTTONS." (For Buttons.) APPELBEE & NEUMAN, INC., New York, N. Y. Filed August 6, 1921.

23,511.—*Title:* "ALMOND HONEY CUCUMBER LOTION." (For Healing and Soothing Lotion for Use After Shaving, Also upon Emollients for Whitening and Softening the Face, Neck, and Arms, and for Relieving Roughness, Chafing, Irritations, Windburn, Sunburn, and Chapped Skin or Lips.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,512.—*Title:* "ROUGE COMPACT 400." (For Rouge in the Form of Compacts.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,513.—*Title:* "EAU DE BEAUTÉ. (WATER OF BEAUTY.)" (For Face-Astringents and Skin-Tighteners.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,514.—*Title:* "ROUGE COMPACT 200." (For Rouge in the Form of Compacts.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,515.—*Title:* "ROUGE COMPACT 300." (For Rouge in the Form of Compacts.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,516.—*Title:* "ROUGE COMPACT 500." (For Rouge in the Form of Compacts.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,517.—*Title:* "ROUGE COMPACT 600." (For Rouge in the Form of Compacts.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,518.—*Title:* "HARRIET HUBBARD AYER." (For Toilet Cream, Toilet Powder, Rouges, Lotions, Enamels, Skin and Tissue Builders, Depilatories, Skin-Astringents, and Many other Toilet Preparations.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,519.—*Title:* "HARRIET HUBBARD AYER." (For Toilet Cream, Toilet Powder, Rouges, Lotions, Enamels, Skin and Tissue Builders, Depilatories, Skin-Astringents, and Many other Toilet Preparations.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,520.—*Title:* "BARBANELL FACE POWDER." (For Face-Powder.) FABIAN BARBANELL, Los Angeles, Calif. Filed July 14, 1921.

23,521.—*Title:* "LIQUOR ADRENALINI HYDROCHLORICUS." (For a Remedy for Overcoming Local Congestions, to Check Local Hemorrhages, as a General Circulatory Stimulant, and for the Relief of Asthmatic Paroxysms.) COLEMAN BARDOS, Jr., New York, N. Y. Filed June 28, 1921.

23,522.—*Title:* "TCH U BLOCKS." (For Educational Blocks.) ELIZABETH BRATTON, Columbus, Ohio. Filed June 14, 1921.

23,523.—*Title:* "BRIGANTI'S GREAT BLOOD PURIFIER." (For a Tonic for the Blood.) CROCE BRIGANTI, New York, N. Y. Filed July 28, 1920.

23,524.—*Title:* "PRESTO METAL POLISH." (For Bottled Metal-Polish.) Mrs. KATHRYN CAMP, Indianapolis, Ind. Filed February 9, 1921.

23,525.—*Title:* "PRUNOLA." (For Containers and Cartons Containing Prunola, a Preparation of Sun-Dried Olives and Prunes.) CARQUE PURE FOOD COMPANY, Los Angeles, Calif. Filed July 11, 1921.

23,526.—*Title:* "E TWIST." (For Tobacco.) CHRISTIAN PEPER TOBACCO Co., St. Louis, Mo. Filed July 22, 1921.

23,527.—*Title:* "COLONIAL CAKE." (For Cake.) THE COLONIAL BISCUIT COMPANY, Philadelphia, Pa. Filed July 28, 1921.

23,528.—*Title:* "COLONIAL CAKE." (For Cake.) THE COLONIAL BISCUIT COMPANY, Philadelphia, Pa. Filed July 28, 1921.

23,529.—*Title:* "C. P. CO'S. CONCRETE PRODUCTS ENDURING, AS THE PYRAMIDS." (For Specimens of Concrete Bricks, Concrete Blocks, and other Concrete Building Materials.) CONCRETE PRODUCTS Co., Trenton, N. J. Filed July 30, 1921.

23,530.—*Title:* "HOME MAID." (For Cans of Liquid Malt Extract.) HARRY CORCORAN, Chicago, Ill. Filed July 25, 1921.

23,531.—*Title:* "CURTIS ST. LOUIS." (For Advertising Purposes for Machinery and Equipment.) CURTIS & Co. MFG. Co., St. Louis, Mo. Filed March 11, 1921.

23,532.—*Title:* "CAN DANDY BRAND SIFTED EARLY JUNE PEAS." (For Cans Containing Early June Peas.) GEO. H. DRAPER, Jr., Milford, Del. Filed August 1, 1921.

23,533.—*Title:* "PEACOCK INSTANT COFFEE." (For Powdered Coffee.) EMPIRE FOOD PRODUCTS COMPANY, New York, N. Y. Filed July 14, 1921.

23,534.—*Title:* "LA FREDRICK." (For Cigars.) WILLIAM FREDRICK, Monett, Mo. Filed August 18, 1921.

23,535.—*Title:* "GRAND AROMA." (For Cigars.) FREIBERG & GORMAN, Brooklyn, N. Y. Filed July 19, 1921.

23,536.—*Title:* "C-O-D." (For Packages Containing Toasted Cereal.) FRED C. GILLITT, St. Paul, Minn. Filed May 23, 1921.

23,537.—*Title:* "GRADA (GRADEA)." (For Tile and Porcelain Cleanser.) THE GRADY MFG. Co., Long Island City, N. Y. Filed August 22, 1921.

23,538.—*Title:* "SONORA." (For Cigars.) C. B. HENSCHEL MANUFACTURING COMPANY, Milwaukee, Wis. Filed July 19, 1921.

23,539.—*Title:* "D. B. HICKEY'S HEALING LIQUID." (For Containers for a Remedy for Cuts and Sores of All Kinds.) DELMER BROOKE HICKEY, Chanute, Kans. Filed August 8, 1921.

23,540.—*Title:* "HIGH TEST NO-BOIL MALT EXTRACT." (For Cans Containing Liquid Malt Extract.) HIGH-TEST MALT EXTRACT Co., Chicago, Ill. Filed July 18, 1921.

23,541.—*Title:* "VISTA LINEN." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) B. HOPPER, Kalamazoo, Mich. Filed February 7, 1921.

23,542.—*Title:* "FRENCH POPLIN." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) B. HOPPER, Kalamazoo, Mich. Filed February 7, 1921.

23,543.—*Title:* "WINONA LINEN." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) B. HOPPER, Kalamazoo, Mich. Filed February 7, 1921.

23,544.—*Title:* "HOPPER'S TRUE LINEN." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) B. HOPPER, Kalamazoo, Mich. Filed February 7, 1921.

23,545.—*Title:* "HOPPER'S TRUE LINEN PASTEL GRAY." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) B. HOPPER, Kalamazoo, Mich. Filed February 7, 1921.

23,546.—*Title:* "FRENCH KID PLATE MARKED." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) B. HOPPER, Kalamazoo, Mich. Filed February 7, 1921

23,547.—*Title:* "MISS HUNTER'S FRUIT NUT CHOCOLATES." (For Candy.) (Miss) EMMA D. HUNTER, Clinton, N. Y. Filed July 18, 1921.

23,548.—*Title:* "LOOK FOR THE GINGHAM PACKAGE." (For Biscuit-Flour.) H. JEWETT Co., Los Angeles, Calif. Filed August 19, 1921.

23,549.—*Title:* "DEXTRO MALTO No. 2." (For Mead's Dextri-Maltore.) MEAD JOHNSON & Co., Evansville, Ind. Filed April 22, 1921.

23,550.—*Title:* "BLUE GRASS EVAPORATED MILK." (For Containers for Condensed Milk.) KENT STORAGE COMPANY, Grand Rapids, Mich. Filed August 4, 1921.

23,551.—*Title:* "VITAMINE CHOCOLATE." (For Sweet Chocolate.) KNICKERBOCKER CHOCOLATE COMPANY, West Hoboken, N. J., and New York, N. Y. Filed July 25, 1921.

23,552.—*Title:* "VITACOCO." (For Cocoa-Powder.) KNICKERBOCKER CHOCOLATE COMPANY, West Hoboken, N. J., and New York, N. Y. Filed August 11, 1921.

23,553.—*Title:* "WALNUT CRULLERS." (For Crullers.) GEORGE O. KOLB, Hartford, Conn. Filed August 2, 1921.

23,554.—*Title:* "HAIR-ROOT-OIL." (For a Hair-Dressing and Shampoo.) ALFRED J. KRANK, St. Paul, Minn. Filed August 15, 1921.

23,555.—*Title:* "MULE." (For Cigarettes.) ROSCOE S. LINTON, Joplin, Mo. Filed March 28, 1921.

23,556.—*Title:* "MOZZEL SHAM PAGNE." (For Non-Cereal, Maltless, Non-Alcoholic Beverage Sold as a Soft Drink.) GEORGE W. LIPSHULCH, Chicago, Ill. Filed April 25, 1921.

23,557.—*Title:* "REDIBAK." (For Malt Extract.) G. LOEWUS & Co., Jersey City, N. J. Filed August 2, 1921.

23,558.—*Title:* "ALL OVER THE WORLD BRAND MALZONE'S." (For Confectionery.) ANGELO MALZONE & SONS, West New York, N. J. Filed July 7, 1921.

23,559.—*Title:* "NEUMAN'S ICE CREAM." (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to H. L. Neuman Company, York, Pa. Filed July 20, 1921.

23,560.—*Title:* "WABASH VALLEY." (For Cartons Containing Butter.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Cloverleaf Creameries, Inc., Huntington, Ind. Filed August 6, 1921.

23,561.—*Title:* "COLD-KIST." (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Hygeia Ice Cream Company, Elmira, N. Y. Filed August 6, 1921.

23,562.—*Title:* "TRAPP'S FANCY CREAMERY BUTTER." (For Cartons Containing Butter.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Trapp Bros. Dairy Company, Milwaukee, Wis. Filed August 6, 1921.

23,563.—*Title:* "PRIDE OF OHIO." (For Cartons Containing Butter.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to The Hill-Weppener Company, Cleveland, Ohio. Filed August 6, 1921.

23,564.—*Title:* "ASSORTED BITTER SWEET CHOCOLATES." (For Boxes Containing Assorted Bitter-Sweet Chocolates.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed July 23, 1921.

23,565.—*Title:* "CANDIES." (For Boxes Containing Candy.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed July 15, 1921.

23,566.—*Title:* "CIRCE CHOCOLATES." (For Boxes Containing Chocolate Candy.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed July 29, 1921.

23,567.—*Title:* "DR. MORRISON'S MOUTH CLEANSER." (For a Preparation for Cleansing the Mouth and Teeth.) JOSEPH P. MORRISON, Mount Carmel, Pa. Filed August 20, 1921.

23,568.—*Title:* "T. N. O. METAL POLISH." (For Metal Polish for Silver, Brass, Copper, and Nickel.) GUS W. NEVIN, Cincinnati, Ohio. Filed April 5, 1921.

23,569.—*Title:* "BARBAROSSA." (For Tin Cans Containing Malt and Hop Extract.) RED TOP MALT EXTRACT Co., Cincinnati, Ohio. Filed August 22, 1921.

23,570.—*Title:* "NO SMOKING." (For Advertising Purposes for Piston-Rings.) THE REUS BROS. Co., Baltimore, Md. Filed February 1, 1921.

23,571.—*Title:* "SUPREME QUALITY, BON TON CORSETS, THE MOST FASHIONABLE AND PERFECT FITTING CORSETS." (For Boxes in Which Corsets are Packed.) ROYAL WORCESTER CORSET CO., Worcester, Mass. Filed August 24, 1921.

23,572.—*Title:* "GOLD STANDARD." (For Cotton Piece Goods.) SANGER BROS. INC., New York, N. Y., and Dallas, Texas. Filed August 17, 1921.

23,573.—*Title:* "RIGHT HOUSE RIGHT GOODS, RIGHT PRICES." (For Hosiery, Underwear, and Knit Goods.) SCHOTT BROTHERS, New York, N. Y. Filed March 5, 1921.

23,574.—*Title:* "CAFÉ DE LUXE." (For Coffee.) SIBLEY-ALMY Co., INC., Olean, N. Y. Filed March 2, 1921.

23,575.—*Title:* "GOLDEN CUP." (For Coffee.) SIBLEY-ALMY Co., INC., Olean, N. Y. Filed March 2, 1921.

23,576.—*Title:* "BUDDY." (For Lemons.) L. K. SMALL COMPANY, Los Angeles, Calif. Filed May 24, 1921.

23,577.—*Title:* "JAY BLOX FOR THE KIDDIES." (For Nested Toy Blocks.) JESSE SNOFF, Cincinnati, Ohio. Filed March 1, 1921.

23,578.—*Title:* "WALLER'S RELIEF FOR HEADACHE AND NEURALGIA." (For Headache Powders and Tablets.) HERMAN S. WALLER, Chicago, Ill. Filed January 24, 1921.

23,579.—*Title:* "SOME!!!" (For Cake.) HENRY V. WALTERS, Oceanport, N. J. Filed February 10, 1921.

23,580.—*Title:* "FIRST-PRIZE." (For Bread.) HENRY V. WALTERS, Long Branch, N. J. Filed July 13, 1921.

23,581.—*Title:* "OVALTINE." (For Tins Containing Ovaltine.) THE WANDER COMPANY, Chicago, Ill. Filed July 29, 1921.

23,582.—*Title:* "SEVEN POINT." (For Hosiery.) WHITEHEAD HOSIERY MILLS, INC., Burlington, N. C. Filed July 21, 1921.

23,583.—*Title:* "WHITE MULE TIRE-PATCH." (For Can Containing Automobile-Tire Patch.) WHITE MULE, INC., Carbondale, Ill. Filed May 27, 1921.

PRINTS

REGISTERED OCTOBER 25, 1921.

5,802.—*Title:* "IMPROVED ASPHALT SLAB." (For Advertising Purposes for Asphalt-Shingle Roofs.) ASBESTOS ROOFING COMPANY, Cleveland, Ohio. Filed July 11, 1921.

5,803.—*Title:* "JUMPED INTO FAVOR BECAUSE OF ITS FLAVOR." (For Advertising Purposes for Breakfast Food.) BREAKFAST BROWNIES COMPANY, Helena, Mont., and Minneapolis, Minn. Filed July 16, 1921.

5,804.—*Title:* "GRENNAN'S MORE THAN 50 VARIETIES." (For Advertising Purposes for Cake.) GRENNAN CAKE CORPORATION, Chicago, Ill. Filed December 30, 1920.

5,805.—*Title:* "A NEW TRAVEL CREATION." (For Advertising Purposes for Wardrobe-Trunks.) HARTMANN TRUNK COMPANY, Racine, Wis. Filed August 12, 1921.

5,806.—*Title:* "PRESENTING CASTLE-GRANDE." (For Advertising Purposes for Wardrobe-Trunks.) HARTMANN TRUNK COMPANY, Racine, Wis. Filed August 12, 1921.

5,807.—*Title:* "HAYNES CHARACTER CARS." (For Advertising Purposes for Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed June 3, 1921.

5,808.—*Title:* "EVERY DROP AWAKENS FLAVOR HEINZ VINEGARS HERE'S ZEST TO LAGGING APPETITES." (For Advertising Purposes for Heinz Vinegars.) H. J. HEINZ CO., Pittsburgh, Pa. Filed July 26, 1921.

5,809.—*Title:* "EVERY DROP AWAKENS FLAVOR HEINZ VINEGARS FRESH VEGETABLES AND SALADS!" (For Advertising Purposes for Heinz Vinegars.) H. J. HEINZ CO., Pittsburgh, Pa. Filed July 14, 1921.

5,810.—*Title:* "VANDERBILT'S BIRD SONG RESTORER." (For a Bird-Tonic and Song-Restorer.) F. T. HORTON CO., INC., Hoboken, N. J. Filed July 21, 1921.

5,811.—*Title:* "SAY:—'VERNOR'S—A CASE!'" (For Advertising Purposes for Ginger-Ale and Ginger-Ale Extract.) JAMES VERNOR COMPANY, Detroit, Mich. Filed April 25, 1921.

5,812.—*Title:* "AN ADDED ROOM — SUBTRACTED RENT." (For Advertising Purposes for Bed-Davenports.) KROEHLER MFG. COMPANY, Naperville, Ill. Filed August 17, 1921.

5,813.—*Title:* "DRI-BOY." (For Advertising Purposes for Waterproof Outer Garments.) NEW YORK MACKINTOSH CLOTHING CO., New York, N. Y. Filed March 17, 1921.

5,814.—*Title:* "DRI-GIRL." (For Advertising Purposes for Waterproof Outer Garments.) NEW YORK MACKINTOSH CLOTHING CO., New York, N. Y. Filed March 17, 1921.

5,815.—*Title:* "CAPE-GIRL." (For Advertising Purposes for Waterproof Outer Garments.) NEW YORK MACKINTOSH CLOTHING CO., New York, N. Y. Filed March 17, 1921.

5,816.—*Title:* "OLIVE OIL MAKES GLOSSY HAIR." (For Advertising Purposes for Shampoo.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed May 16, 1921.

5,817.—*Title:* "THE SECRET OF CHARM NEVER CHANGES." (For Advertising Purposes for Palmolive Soap.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed July 28, 1921.

5,818.—*Title:* "THE GIRL WOMEN ENVY AND MEN ADMIRE." (For Advertising Purposes for Palmolive Soap.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed August 25, 1921.

5,819.—*Title:* "EXTRA EARLY OSAGE MUSKMELON." (For Advertising Purposes for Muskmelon.) JEROME B. RICE SEED CO., Cambridge, N. Y. Filed August 13, 1921.

5,820.—*Title:* "MISS QUALITY." (For Advertising Purposes for Children's Dresses.) A. ROSENBLATT SONS & CO., Philadelphia, Pa. Filed July 11, 1921.

5,821.—*Title:* "UNITED FUEL & SUPPLY CO. BUILDING SUPPLIES BY TRUCK TRAIN OR BOAT." (For Advertising Purposes for Building Supplies.) UNITED FUEL & SUPPLY COMPANY, Detroit, Mich. Filed May 2, 1921.

5,822.—*Title:* "STOP LITTLE CHICKS FROM DYING." (For Advertising Purposes for Ru-Chol, a Poultry Medicine for the Treatment of White Diarrhea, Cholera, Roup, Canker, Colds, and Limberneck.) VAYCIDE CHEMICAL CORP., Birmingham, Ala. Filed May 9, 1921.

5,823.—*Title:* "UNEXCELLED WINDOW SHADES." (For Advertising Purposes for Window-Shades.) THE WEISS & KLAU COMPANY, New York, N. Y. Filed March 22, 1921.

DECISIONS
OF THE
COMMISSIONER OF PATENTS
AND OF
UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

U. S. Circuit Court of Appeals—Sixth Circuit.

STOWE *v.* AMERICAN REFRACTORIES CO.

Decided July 22, 1921.

[274 Fed. Rep., 241.]

1. PATENTS—792,822, FOR PROCESS OF MAKING REFRACTORY COMPOUND FOR FURNACE-LININGS, NOT INFRINGED.

Davison's patent, No. 792,822, for a process or method of making a refractory compound for furnace-linings or similar purposes, *Held* not infringed.

2. SAME—USING ROTARY KILN INSTEAD OF STATIONARY KILN, HELD NOT TO BE INVENTION.

A process or method of making a refractory compound for furnace linings, which used a dry mix and rotary kiln, *Held* not to be construed as including such method of mixing, as, in view of state of art, it would not be invention to substitute such method for wet mix and stationary kiln.

APPEAL from the District Court of the United States for the Eastern Division of the Southern District of Ohio; John E. Sater, judge.

Suit by Charles B. Stowe against the American Refractories Company for infringement of patent. From a decree dismissing the bill, plaintiff appeals. Decree affirmed.

Mr. Edward R. Alexander for the appellant.

Mr. Frederick W. Winter (*Messrs. Winter & Brown* on the brief) for the appellee.

Before KNAPPEN, DENISON, and DONAHUE, Circuit Judges.

DENISON, *Cir. J.*:

Infringement suit brought by Stowe, owner of Patent No. 792,822, issued June 20, 1905, to Davison, upon application filed April 18, 1904, for a process or method of making a refractory compound for furnace-linings or similar purposes. The claims sued upon are Nos. 3 and 4, which read as follows:

3. The process of making a refractory magnesite compound which consists in comminuting natural magnesite, silica and oxid of iron, mixing the ingredients in a dry state, burning the mixture to clinker and comminuting the clinker.

4. The process of making a refractory magnesite compound which consists in comminuting natural magnesite, silica and oxid of iron, mixing the ingredients in a dry state, burning the mixture to clinker in a rotary kiln and comminuting the clinker.

There were the usual defenses of invalidity and non-infringement. The court below dismissed the bill for lack of infringement.

As early as 1896 it had developed that the most suitable known material for making refractory furnace-linings needed in certain steel processes was a magnesite ore found in Austria. This was pulverized, heated to a high temperature, which caused it partially to fuse together in clinker form, and was then ground into a fine granular condition. It might be sold in this shape to the user, to be by him spread upon the floor of the furnace and fused into an unbroken lining, or it might be made up into bricks and used in that form.

It was known that this ore contained, in somewhat variable proportions, magnesia, iron, and silica; and it was commonly, if not universally, supposed that the iron was necessary as a flux for the magnesia, and that the silica was an undesirable element. It was Davison's substantial discovery, as the patent owner now contends, that the silica played a useful part in the combination, in that it considerably reduced the temperature necessary to frit or begin to fuse the material, as compared with a combination from which the silica was absent; and it may be conceded, for the purpose of this discussion, that this discovery, calling for a purposeful, instead of an incidental, presence of silica, would lend patentability to a claim for putting together by known processes the known ingredients of the natural material, if the necessary novelty existed.

Several manufacturers, including the Harbison-Walker Company, had been engaged in making this class of material since long before the date of Davison's invention. Some ten years after the patent issued, the Harbison-Walker Company altered its process, and the defendant began to use the process of Harbison-Walker embodying this change. Upon this change the charge of infringement rests. We think the simplest way to meet the controlling issues is to consider this change. If it did not involve an inventive step, so that defendant's present process is not patentably distinguishable from that which was used before Davison's invention, it is obvious that Davison can have no patent which can be construed broadly enough to support the charge of infringement and can at the same time escape the defense of invalidity.

As early as 1898 the Harbison-Walker Company, which had been buying and using the Austrian mag-

nesite for this purpose, found difficulty in obtaining this material. The company thereupon proceeded to import and use a Grecian magnesite ore, which was similar to the Austrian save for a deficiency in iron. The company supplied this deficiency by adding iron ore, and then thoroughly pulverized the mixture, moistened it sufficiently to make a thick paste, made this up into small blocks or "dobies," and burned these "dobies" in kilns of the types in common use for burning bricks. By this process the carbonic acid gas was driven off and the material "dead-burned." It was then in fritted or clinker form, and was thereafter ground and used as above described. If the Davison patent extends—as we assume it does—to the mixture of magnesite and silica, by using the raw material which naturally contains both, it is clear that it discloses nothing not previously in use by Harbison-Walker, except that Davison mixed his materials dry and, as specified in claim 4, burned them in a rotary kiln.

Thus we come to the question, as decisive, whether in 1904 it would have been invention to substitute in the Harbison-Walker process a dry mix and a rotary kiln for a wet mix and a stationary kiln. The person skilled in the art to whom this problem was presented would have before him his pulverized magnesite ore, containing silica and needing iron, and also his pulverized iron ore. He would know that these materials should be mixed as intimately and perfectly as possible and then burned to the fritting or clinker stage. He would know that the rotary kiln was an instrumentality in common used for simultaneous mixing and burning of material which was to be fused into a clinker form. It was then specially familiar in making Portland cement, in which the more important materials to be thus fused were limestone and aluminum. While the finished magnesite refractory and the finished cement are distinctly different products, it is not easy to point out any substantial distinction in the mixing, burning, and fritting steps of the process of making the one or the other.

The art of making one kind of synthetic rock (Portland cement concrete) and the art of making another kind of synthetic rock (magnesite refractory) are not so totally dissimilar as are dyeing cloth and tanning leather (*Tannage Co.* v. *Zahn*, [3 C. C. A.,] 70 Fed., 1003; 17 C. C. A., 552,) or polishing wood and pulverizing clay. (*Potts* v. *Creager*, 155 U. S., 606; 15 Sup. Ct., 194; 39 L. Ed., 275; 70 O. G., 494.) They are as similar as heating water to get a useful heat medium and heating wines to age them, (*Dreyfus* v. *Searle*, 124 U. S., 60; 8 Sup. Ct., 390; 31 L. Ed., 352,) or lifting paper sheets and lifting pills. (*Stearns* v. *Russell* [6 C. C. A.,] 85 Fed., 226; 29 C. C. A., 121.) Concrete, plaster of Paris, fire-brick, the mortars in which they are set, and furnace-linings are all fire-resisting materials in different degrees. Concrete is used for a protective lining, as in paper-pulp digesters. (*Munising Co.* v. *American Co.*, [C. C. A., 6,] 228 Fed., 700; 143 C. C. A., 222.)

The substitution of the rotary kiln for the other method of burning impresses us as being only the step which would have occurred to any one fairly familiar with this kind of work; yet we might hesitate to act upon this impression, were it not fortified by other things appearing in the record; and these other things are important, not so much as direct anticipations, but as evidence confirmatory of the obvious character of the substitution. The patents to Reid of 1874 and to Ransome of 1886 describe rotary kilns for burning pulverized gypsum, or lime, cement, etc., and specify the advantages of that device for accomplishing exactly what Davison wished to accomplish. The Ransome patent especially points out that for this purpose the operator may take his choice between putting the material in blocks and burning in a stationary kiln, or pulverizing it and feeding it into a rotary kiln, and also points out that the ingredients, such as clay and chalk, may be mixed either wet or dry, and evidently contemplates that the stationary and rotary kilns and the wet and dry mixes are known equivalents—not only with reference to clay and chalk, but also as to cements "made with other materials than clay and chalk."

The De Navarro patent of 1896 not only describes the distinct advantages of the rotary kiln for making Portland cement, but points out that it contains the same ingredients which constitute the magnesite refractory, viz. silica, alumina, iron, and magnesia. Though, of course, the proportions are very different, the process of mixing and burning is precisely that contemplated by Davison when he calls for a rotary kiln. Indeed, it should be noted that Davison's specification does not describe any new method of kiln treatment, but merely says:

> I then pass the mixture through an ordinary rotary cement kiln, * * * in a well-understood manner.

The Krottnaurer patent of 1900 and the Lossing patent of 1901 further describe the operation of rotary kilns to accomplish effective mixing and burning, not only of cement, but, in the latter patent, of earths and chemicals. If it should be thought that there are such distinctions between burning magnesite and burning cement that the cement kiln would not be familiar to the magnesite worker—though this is in the face of Davison's references to the rotary cement kiln as a thing well known to the artisans whom he was addressing—we find in the British patent to Kirkpatrick of 1902, where Kirkpatrick was discussing the manufacture of magnesite compositions for use in furnaces, a statement that he uses a rotary or any other suitable furnace or kiln.

The use of a rotary kiln in this very situation was not new in 1904. In May, 1899, the Harbison-Walker Company burned several tons of Grecian magnesite mixed with iron ore in a rotary kiln. Although the product was sold, this was an experimental use; but the company soon thereafter installed a rotary kiln for this express purpose. It was used to some extent, although not largely, in such manner that if the use had persisted it would

plainly have been a complete anticipation. It was installed to use with natural gas and this proved to be an unsatisfactory method of heating. Within a short time after this experiment was discontinued, the Harbison-Walker Company obtained the exclusive importation rights to the Austrian magnesite, and thereafter had no use for any synthetic process until importations of the Austrian product were cut off by the war of 1914. It then returned to and continued to use the rotary kiln.

Further confirmation of the obviousness of the substitution is found in the Collom patent application of June, 1899. Collom was an employee of the Harbison-Walker Company, and had conceived the idea that dolomite, an inexpensive native material, could be used in place of the imported magnesite to make the desired refractory composition. His application for a patent describes the dry mixture and the rotary kiln and the complete process of Davison more fully than Davison does—save for the substitution of the dolomite, which he thinks an equivalent of magnesite. This application was abandoned, and hence it is important only as indicating that the use of the rotary kiln was an expedient to which every one naturally turned. (See *Baker* v. *Hughes Co.*, [C. C. A., 2,] 270 Fed., 97, 99.)

Such counter force as might otherwise be found in the abandonment is not here present, because Collom sought no patent upon the use of the rotary kiln, and therefore did not abandon any such claim. He seems to take for granted that its use in this connection would be nonpatentable. It is often true that an abandoned attempt to use some device is evidence of the fact that one who later succeeds in using it has made an invention, but it is evidence only; and these instances of failure to use the rotary kiln to any considerable extent have little, if any, force as indicating that its use was not obvious when its known results were desired.

(1, 2) Putting these considerations with the fact that the use of the rotary kiln for burning magnesite was established in Europe, and that such European usage was known in this country, and with the testimony of experts as to the common knowledge of the rotary kiln and what it would do, we are driven to the conclusion that it would not have been invention in 1904 to substitute this process of burning for the kiln burning which Harbison-Walker was using, in its then current method of manufacturing magnesite refractory materials. It follows that the patent cannot receive a construction broad enough to cover a continuation of the old Harbison-Walker method with only this change.

We may add that a reading of Davison's specification convinces us that he thought that his invention was in the addition, during manufacture, of silica and iron to natural magnesite—or at the most, in the addition of one of these elements to natural material containing the other two. The theory that he had discovered a new method of mixing and burning materials that others were then mixing and burning would have surprised him.

Our conclusion directly affects claim 4. Claim 3 can be distinguished from the old Harbison-Walker process only by limiting the mixing and burning to a method substantially like that of the rotary, and then it is governed by the same considerations as claim 4.

The decree is affirmed.

ADJUDICATED PATENTS.

(U. S. C. C. C. A. Ohio.) The Davison patent, No. 792,822, for process of making refractory compound for furnace-linings, not infringed. *Stowe* v. *American Refractories Co.*, 274 Fed. Rep., 241.

(U. S. D. C. Pa.) The Hanna patent, No. 979,849, claims 9 to 12, for distributing-plate for automatic stoker, *Held* valid and infringed. *Mechanical Const. Co.* v. *Locomotive Stoker Co.*, 274 Fed. Rep., 411.

(U. S. D. C. Pa.) The Street patent, No. 1,130,443, claims 1 to 3 and 9, for automatic stoker, *Held* not infringed. *Mechanical Const. Co.* v. *Locomotive Stoker Co.*, 274 Fed. Rep., 411.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 4TH DAY OF OCTOBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abrams, John M., Brooklyn, N. Y. Resilient tire. No. 1,392,671; Oct. 4.

Abrams, John M., Brooklyn, N. Y. Resilient tire. No. 1,392,672; Oct. 4.

Adams, Frederic W. (See Pfrommer, W. D., and Adams.)

Adams, Gilbert L., Eldorado, assignor of one-half to C. F. Brown, Hollidaysburg, Pa. Tie plate. No. 1,392,733; Oct. 4.

Adams, Virgil P., Bremerton, Wash. Serving-machine. No. 1,392,611; Oct. 4.

Adde & Company. (See Ek, Emil, assignor.)

Aderer, Hugo, East Orange, N. J., assignor to J. F. Jelenko & Co., New York, N. Y. Palatal bar. No. 1,392,612; Oct. 4.

Adler, Marcus, Chicago, Ill. Time-card, pay-envelop, and daily-production record. No. 1,392,613; Oct. 4.

Aktiebolaget Ljungstrom Angturbin. (See Ljungstrom, Fredrik, assignor.)

Aldeen, Reuben A., and S. Hillman, Rockford, Ill. Instrument of precision. No. 1,392,734; Oct. 4.

Allen, Leonard M. (See Clifton, Sydney, assignor.)

Allen, Sherman T. (See Clifton, Sydney, assignor.)

Amato, Joseppe, Ossining, N. Y. Pen or pencil holder. No. 1,392,388; Oct. 4.

American Can Company. (See Graham, Charles W., assignor.)

American Laundry Machinery Company, The. (See Benjamin, D. H., and Link, assignors.)

American Laundry Machinery Company, The. (See Braley, C. L., and Waream, assignors.)

American Laundry Machinery Company, The. (See Prestwich, Sydney, assignor.)

American Laundry Machinery Company, The. (See Snow, Arthur E.)

American Laundry Machinery Company. (See Waream, Charles E., assignor.)

American Sheet and Tin Plate Company. (See McElhaney, James E., assignor.)

American Tar Products Company. (See Puening, Frans, assignor.)

American Telephone and Telegraph Company. (See Crisson, George, assignor.)

American Trust Company, trustee. (See Nicoson, Lemuel C., assignor.) (Reissue.)

Anderson, Albert, Miles City, Mont. Advertising device and paper-holder. No. 1,392,611; Oct. 4.

Anderson, Lars, Chicago, Ill. Mechanical movement. No. 1,392,389; Oct. 4.

Anderson, Lars, Chicago, Ill. Pump. No. 1,392,390; Oct. 4.

Anderson, Per A., New York, N. Y. Piston-ring. No. 1,392,614; Oct. 4.

Anthony Company. (See Anthony, William C., assignor.)

Anthony, William C., assignor to Anthony Company, Streator, Ill. Body support and lock. No. 1,392,615; Oct. 4.

Armstrong, Sir W. G., Whitworth and Company. (See Lee, H. W., and Swindale, assignors.)

Arnold Print Works. (See Jones, S. M., and Harlow, assignors.)

Aston, Taggart, Bellingham, Wash. Wharf-wall and the like. No. 1,392,616; Oct. 4.

Atwood, Leonard, Boston, Mass. Fishing-reel. No. 1,392,735; Oct. 4.

Augustin, Edwin J., Wauwatosa, assignor of one-third to G. Baser and one-third to O. Gray, Milwaukee, Wis. Pressure-regulating valve. No. 1,392,617; Oct. 4.

Automatic Arc Welding Company. (See Morton, Harry D., assignor.)

Automatic Bowling Alley Co. (See Loewenbach, Hugo, assignor.)

Averill, Rex G. (See Darrah, W. A., and Averill.)

Ayers, Norman, McArthur, Ohio. Lever mechanism. No. 1,392,618; Oct. 4.

Bagnell, Thomas, Hemmingford, Quebec, Canada. Wheel-tire. No. 1,392,735; Oct. 4.

Baker, Bernt, Highland Park, Mich. Safety-stirrup. No. 1,392,673; Oct. 4.

Baker Casing Shoe Company. (See Baker, Reuben C., assignor.)

Baker, Reuben C., assignor to Baker Casing Shoe Company, Coalinga, Calif. Casing-plug. No. 1,392,619; Oct. 4.

Baker, Robert D., Detroit, Mich. Grading roadbeds for concrete roads. No. 1,392,674; Oct. 4.

Baldwin, Tracy C. (See Tuttle, E. H., Miller, and Tuttle.)

Ball & Ball Carburetor Company. (See Ball, Frederick O., assignor.)

Ball, Frederick O., assignor to Ball & Ball Carburetor Company, Detroit, Mich. Reatomiser. No. 1,392,473; Oct. 4.

Ballantine, William B. (See Sulman, H. L., and Ballantine.)

Ballas, Charles P., *et al.* (See Mamalakis, John E., assignor.)

Barnes, John W., Cheshire, England. Machine for scarfing boiler and ship plates, cutting inclined keyways, or other purposes. No. 1,392,549; Oct. 4.

Barnett, Otto R., Glencoe, assignor to P & M Company, Chicago, Ill. Rail-anchor. No. 1,392,288; Oct. 4.

Baroni, Michael. (See Tremolada, Guglielmo, assignor.)

Bartlett, Leonard, assignor to Reliance Machine & Specialty Co., Boston, Mass. Roller-filler for bearings. No. 1,392,550; Oct. 4.

Barts, Frank E., Pittsburgh, Pa. Quick-adjustable monkey-wrench. No. 1,392,391; Oct. 4.

Batchelder, Frank R., assignor to Mills Belt Company, Worcester, Mass. Woven carrier equipment. No. 1,392,551; Oct. 4.

Battelle, Percy E., Louisa, Va. Log-jack. No. 1,392,885; Oct. 4.

Batts, William O., Wilmot, Kans. Safety apparatus for trains or cars. No. 1,392,620; Oct. 4.

Bauer, George, *et al.* (See Augustin, Edwin J., assignor.)

Baynes, Bernard C., *et al.* (See Berry, George A., assignor.)

Beale, William J. (See Butler, William A., assignor.)

Beall, Charles R., assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for the control of railway-switches. No. 1,392,737; Oct. 4.

Beaton, Angus, Vulcan, Alberta, Canada. Draft-equaliser. No. 1,392,738; Oct. 4.

Bebow, Hans J., Fond du Lac, Wis. Snowplow. No. 1,392,739; Oct. 4.

Bechman, Louis H., assignor to Duplex Printing Press Company, Battle Creek, Mich. Machine for shaping matrices. No. 1,392,621; Oct. 4.

Bedard, Joseph, Columbus, Ohio. Windshield-protector. No. 1,392,474; Oct. 4.

Bell, John E., Brooklyn, assignor to Power Specialty Company, New York, N. Y. Economizer for steam-boilers. No. 1,392,675; Oct. 4.

Benjamin, Charles S. (See Treneer, J. M., and Benjamin.)

Benjamin, Dana H., Cleveland Heights, and G. N. Link, Cincinnati, assignors to The American Laundry Machinery Company, Norwood, Ohio. Garment press and steaming mechanism. No. 1,392,289; Oct. 4.

Bennett Injector Company. (See Wood, A. J., assignor.)

Bergren, Oscar W., Waltham, Mass. Tapping-block. No. 1,392,740; Oct. 4.

Berkovi, Leopold, assignor to La Reine Hair Waver and Curler Company Limited, London, England. Hair waver and curler. No. 1,392,812; Oct. 4.

Berry, George A., Excelsior Springs, Mo., assignor of one-third to W. J. Marah, St. Louis, and one-third to B. C. Baynes, Excelsior Springs, Mo. Price-ticket holder. No. 1,392,622; Oct. 4.

Berry, Joseph E., Carthage, Mo. Cloth-clamp. No. 1,392,552; Oct. 4.

Bersted, Alfred and M., Chicago, Ill. Balance-weight cover-support for phonographs. No. 1,392,290; Oct. 4.

Bersted, Martin. (See Bersted, Alfred and M.)

Bibb, Carlisle H., assignor of one-half to J. T. Bibb, Sr., Pasadena, Calif. Making aldehydes and other oxidation products. No. 1,392,886; Oct. 4.

Bibb, John T., Sr. (See Bibb, Carlisle H., assignor.)

Bill, Jean, Legano, Italy. Electrically-heated stamping-machine. No. 1,392,553; Oct. 4.

Billon, Frédéric, assignor to Firm Scintilla, Solothurn, Switzerland. Magneto-electric ignition-machine. No. 1,392,554; Oct. 4.

Bingham, George W., Cleveland, Ohio, assignor to The International Moving Picture & Film Company, Nashville, Tenn. Motion-picture apparatus. No. 1,392,475; Oct. 4.

Bird, Charles S. (See Goldberg, Solomon H., assignor.)

Blackburn, Edward S., Austin, Tex. Identifying-tag. No. 1,392,291; Oct. 4.

Blue, Edward G., Grape Creek, Ill. Demountable rim. No. 1,392,292; Oct. 4.

Bobroff, Bornett L., Milwaukee, Wis. Signaling system. No. 1,392,293; Oct. 4.

Bodle, Josiah W., Effingham, S. C. Automatic car-replacer. No. 1,392,892; Oct. 4.

Boedeker, Walter U., assignor, by mesne assignments, to The H. B. Corporation, Chicago, Ill. Dish-washing machine. No. 1,392,476; Oct. 4.
Bonsall, Thomas L., Ottawa, Ontario, Canada. Mop. No. 1,392,741; Oct. 4.
Borresen, Helge A., Marquette, Mich. Main-spring barrel for timepieces. No. 1,392,676; Oct. 4.
Bowden-Smith, Edward C., London, England. Valve. No. 1,392,294; Oct. 4.
Bowman, Robert H., assignor to The Firestone Tire & Rubber Co., Akron, Ohio. Resilient tire. No. 1,392,571; Oct. 4.
Bosung, Joseph A., and P. S. McMahon, Denver, Colo. Double compound power-applying machine. No. 1,392,296; Oct. 4.
Braley, Charles L., and C. E. Waream, assignors to The American Laundry Machinery Company, Cincinnati, Ohio. Collar, cuff, and neckband press. No. 1,392,296; Oct. 4.
Brandenburger, John A. (See McKelvey, L. F., and Brandenburger.)
Brantigam, Willard E., Avery, Idaho. Balancing-relay. No. 1,392,742; Oct. 4.
Brentano, John J., St. Paul, Oreg. Shoe-holding stand. No. 1,392,393; Oct. 4.
Broadley, Joseph R., London, England. Machine for grinding ores, mineral stones, and the like. No. 1,392,887; Oct. 4.
Brotherton, Wilbur. (See Howe, Solon G., assignor.)
Brousseau, Harry, Bath, Me. Steering-gear for ships. No. 1,392,394; Oct. 4.
Brown, Charles F. (See Adams, Gilbert L., assignor.)
Brown, Julius A., Peekskill, N. Y. Reproducer for phonographs. No. 1,392,677; Oct. 4.
Brown, Thomas, Salt Lake City, Utah. Automobile-polish, (composition.) No. 1,392,477; Oct. 4.
Bruah, Howard R., Chicago, Ill. Extendible truck construction. No. 1,392,395; Oct. 4.
Brunecken, Johannes, Cologne-Bickendorf, Germany. Starting induction-motor. No. 1,392,555; Oct. 4.
Brunett, Dewitt A., Minneapolis, Minn. Hot-air furnace. No. 1,392,888; Oct. 4.
Bryan, Andrew J. (See Bush, H. L., and Bryan.)
Bucovaz, Antonio, *et al.* (See Hemphill, Henry B., assignor.)
Buffalo Forge Company. (See Day, Arthur A., assignor.)
Buhr, Joseph F., Detroit, Mich. Chuck. No. 1,392,678; Oct. 4.
Bull, George F., Small Heath, Birmingham, assignor of one-half to C. H. Pugh, Limited, Birmingham, England. Thread-guide of spinning, twisting, doubling, and like frames. No. 1,392,743; Oct. 4.
Burke, Joseph H., Portland, Me. Circular-saw guard. No. 1,392,396; Oct. 4.
Burnett, Charles C. (See Crawford, Frank, assignor.)
Burnside, Arthur E., South Jacksonville, Fla. Automobile-jack. No. 1,392,297; Oct. 4.
Bush, Horace L., and A. J. Bryan, Graham, Tex. Spring-wheel. No. 1,392,813; Oct. 4.
Butcher, James M., assignor, by mesne assignments, to Sentinel Alarm Co., Chicago, Ill. Alarm device. No. 1,392,397; Oct. 4.
Butler, William A., Portsmouth, assignor of one-half to W. J. Beale, Norfolk, Va. Tie-plate and rail-fastener. No. 1,392,398; Oct. 4.
Butterick Publishing Company, The. (See Sieger, Philip C., assignor.)
Byers, Firm B., New York, N. Y. Collar and necktie holder. No. 1,392,298; Oct. 4.
Cable Company, The. (See Hagey, J. C., and Swensen, assignors.)
Cadillac Motor Car Company. (See Snell, Lyle K., assignor.)
Cajoleas, George J., *et al.* (See Mamalakis, John E., assignor.)
California Central Creameries. (See Rew, William O., assignor.)
Carlson, Oscar F. H., assignor to Deere & Company, Moline, Ill. Lever. No. 1,392,299; Oct. 4.
Carroll, Paul W., Des Moines, Iowa. Wringer device. No. 1,392,478; Oct. 4.
Carroll, William L., *et al.* (See Gill, George W., assignor.)
Carvalho, Leslie R. N. (See Merolle, Augustus L., assignor.)
Chance, Henry M., Philadelphia, Pa., and T. M. Chance, Baltimore, Md. Method and apparatus for classifying materials. No. 1,392,401; Oct. 4.
Chance, Thomas M., Philadelphia, Pa. Method and apparatus for washing coal and concentrating ores and minerals. No. 1,392,399; Oct. 4.
Chance, Thomas M., Philadelphia, Pa. Washing coal and concentrating ores and minerals. No. 1,392,400; Oct. 4.
Chance, Thomas M. (See Chance, Henry M. and T. M.)
Cheatham, Raymond L., Richmond, Va. Automobile-brush. No. 1,392,629; Oct. 4.
Chittenden, Foree. (See Wiet, E., and Chittenden.)
Christopherson, Alfred. (See Smith, R. D., and Christopherson.)
Cling-Mars, Legendre, San Francisco, Calif. Gas-heater. No. 1,392,479; Oct. 4.
Clarke, Albert E., Detroit, Mich. Cable connection. No. 1,392,480; Oct. 4.
Clavora, Raffaele, *et al.* (See Hemphill, Henry B., assignor.)
Clements, George, assignor to Clements Mfg. Co., Chicago, Ill. Vacuum-cleaner. No. 1,392,624; Oct. 4.
Clements Mfg. Co. (See Clements, George, assignor.)
Cleppe, Louis, *et al.* (See Stoewsand, Charles F., assignor.)
Clifton, Sydney, assignor to S. T. Allen, Los Angeles, Calif. Tractor transmission. No. 1,392,865; Oct. 4.
Clifton, Sydney, Los Angeles, assignor to L. M. Allen, Burbank, Calif. Self-cleaning tractor wheel and gears. No. 1,392,866; Oct. 4.
Clinton Refrigerating Company. (See Wishart, William and J. D., assignors.)
Clough, Fred M., Bryant, S. D. Typewriter-desk. No. 1,392,744; Oct. 4.
Cochran, Ralf S. (See Marsh, H. S., and Cochran.)
Colbert, George F. and W. H., Pittsburgh, Pa. Mirror-support. No. 1,392,481; Oct. 4.
Colbert, William H. (See Colbert, George F. and W. H.)
Cole, Edward P., Chicago, Ill. Cooking-range. No. 1,392,482; Oct. 4.
Cole, William L., Mile End, East London, assignor to Quasi-Arc Company, Limited, London, England. Securing attachments to iron or steel plates having hardened surfaces. No. 1,392,300; Oct. 4.
Connecticut Aircraft Company. (See Smyth, Charles F., assignor.)
Conroy, Thomas. (See Vine, Jerry T., assignor.)
Consolidated Car-Heating Company. (See Hynes, Lee P., assignor.)
Consolidated Press Company. (See Heath, L. W., and Cook, assignor.)
Continental Can Company. (See Fink, Henry A., assignor.)
Cook, Hubert D. (See Heath, L. W., and Cook.)
Cooke, Thomas S. (See Lewis, F. B., and Cooke.)
Cooper, C. A. (See Syfert, William W., assignor.)
Copelin, Leonard S., Millers, Nev. Recovering vanadium from solutions. No. 1,392,745; Oct. 4.
Cosgrove, John W., Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Applying device. No. 1,392,301; Oct. 4.
Cottard, Jean B., assignor to Société de Moteurs à Gas et d'Industrie Mecanique, Paris, France. Semidiesel oil-engine. No. 1,392,556; Oct. 4.
Cottman, Richard C., Merced, Calif. Building-wall construction. No. 1,392,402; Oct. 4.
Coulter, Robert S. (See Nelson, J. W., and Coulter.)
Cox, David H., Roselle, N. J. Cap for valve-tubes. No. 1,392,746; Oct. 4.
Cox, Kenwrick C., Norfolk Island, South Pacific. Telegraphy. No. 1,392,303; Oct. 4.
Cox, Walter, Philadelphia, Pa. Water-cooled glass-roller. No. 1,392,626; Oct. 4.
Crabb, George W. J., Newark, and E. J. Rennie, Bloomfield, N. J. Dirigible headlight. No. 1,392,747; Oct. 4.
Cramer, Carl, assignor to Schweizerische Sodafabrik, Zurzach, Switzerland. Manufacture of caustic soda. No. 1,392,814; Oct. 4.
Crawford, Beatty M., Santa Ana, assignor to V. V. Kunkel, Los Angeles, Calif. Honey-extractor. No. 1,392,679; Oct. 4.
Crawford, Frank, assignor of one-half to C. C. Burnett, Los Angeles, Calif. Friction-top can-sealer. No. 1,392,867; Oct. 4.
Crisson, George, Hoboken, N. J., assignor to American Telephone and Telegraph Company. Method of and means for detecting irregularities in transmission-lines. No. 1,392,815; Oct. 4.
Crocker, Fred W., Los Angeles, Calif. Clasp. No. 1,392,816; Oct. 4.
Crogan, Jacob R., Shaunavon, Saskatchewan, Canada. Clutch for grain-separators. No. 1,392,403; Oct. 4.
Cruickshank, Arthur B., London, England. Heat-distributer. No. 1,392,868; Oct. 4.
Cullin, Jasper F., assignor, by mesne assignments, to W. J. Hartwig, Detroit, Mich. Insulation for armatures. No. 1,392,557; Oct. 4.
Culver, Lagar R., Portland, Oreg. Keyhole-guard. No. 1,392,404; Oct. 4.
Cunniff, Edward A. and J. V., Fall River, assignors to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,392,817; Oct. 4.
Cunniff, Edward A., and J. V., Fall River, assignors to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,392,818; Oct. 4.
Cunniff, John V. (See Cunniff, Edward A. and J. V.)
Cunningham, Auren A., assignor of one-half to G. P. Wiig, Omaha, Nebr. Mop-bucket. No. 1,392,483; Oct. 4.
Custer, Bessie, Satanta, Kans. Union-garment. No. 1,392,303; Oct. 4.
Cutter, George, Company. (See Larkins, Ernest M., assignor.)
Darrah, William A., and R. Averill, assignors to The Ohio Brass Company, Mansfield, Ohio. Electric coupling. No. 1,392,558; Oct. 4.
Davidson, Clarence B., San Francisco, Calif. Manifolding-books and manifolding. No. 1,392,748; Oct. 4.
Davis, Abbott B., Saugatuck, Mich. Toy boat. No. 1,392,485; Oct. 4.
Davis, Abbott B., Saugatuck, Mich. Toy duck. No. 1,392,385; Oct. 4.
Davis, Frank F., Chester, Pa. Piston-wrist-pin construction. No. 1,392,819; Oct. 4.

Davis, John W., Dallas, Tex. Lineman's safety-chair. No. 1,392,620; Oct. 4.
Davis, Robert B., assignor to Robert B. Davis Tool Company, St. Louis, Mo. Boring-tool. No. 1,392,804; Oct. 4.
Davis, Robert B., Tool Company. (See Davis, Robert B., assignor.)
Davis, Tommie, Fort Lyon, Colo. Folding car-step. No. 1,392,821; Oct. 4.
Day, Arthur A., assignor to Buffalo Forge Company, Buffalo, N. Y. Door structure for air-washers and the like. No. 1,392,305; Oct. 4.
Day, Henry B., Los Angeles, Calif. Automobile-surfacing. No. 1,392,559; Oct. 4.
Deal; Orval T. (See Doman, John P., assignor.)
Deere & Company. (See Carlson, Oscar F. H., assignor.)
Defiance Machine Works. (See McCarty, William T., assignor.)
De Laval Separator Company, The. (See Hulbert, John L., assignor.)
DeLong, Susan E., Fellows, Calif. Receptacle. No. 1,392,550; Oct. 4.
De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Bearing and oiling means therefor. No. 1,392,306; Oct. 4.
Dice, John L. (See Doyle, S. T., and Dice.)
Dice, Robert E., Indianapolis, Ind. Folding stand. No. 1,392,486; Oct. 4.
Dick, Harvey H., Lincoln, Ill. Boiler-cleaner. No. 1,392,307; Oct. 4.
Dimin, Morris B., Brooklyn, N. Y. Vehicle-fender. No. 1,293,625; Oct. 4.
Doman, John P., assignor of one-half to O. T. Deal, Los Angeles, Calif. Tool-handle. No. 1,392,627; Oct. 4.
Dominguez, Manuel D., New Orleans, La. Trolley. No. 1,392,560; Oct. 4.
Donati, Adolph, Brooklyn, N. Y. Bicycle stand or support. No. 1,392,749; Oct. 4.
Doremus, Andrew J., *et al.* (See Treneer, J. M., and Benjamin, assignors.)
Dougherty, Stephen O., Toronto, Ontario, Canada. Shade and curtain hanger. No. 1,392,405; Oct. 4.
Dowd, John C., Merchantville, N. J. Vehicle-spring. No. 1,392,680; Oct. 4.
Downey, Millard J., Chicago, Ill. Theft-signal for motor-vehicles. No. 1,392,869; Oct. 4.
Doyle, Silas T., and J. L. Dice, Caledonia, Ohio. Piston-ring assemblage. No. 1,392,308; Oct. 4.
Draper Corporation. (See Cunniff, Edward A. and J. V., assignors.)
Draper Corporation. (See Snow, Isaac, assignor.)
Dreebaler, John A., Hillsdale, Mich. Shoe-retainer. No. 1,392,628; Oct. 4.
Driver-Harris Company. (See Henderson, John C., assignor.)
Dubbs, Carbon P., Wilmette, Ill. Converting hydrocarbons. No. 1,392,629; Oct. 4.
Duffy, Charles H., Cherry Chase, Md. Clevis-antirattling and pin-retaining attachment. No. 1,392,561; Oct. 4.
Duplex Printing Press Company. (See Bechman, Louis H., assignor.)
Dupré, Wilfred, Worcester, Mass. Dustpan. No. 1,392,406; Oct. 4.
Durham, William R., Detroit, Mich. Nut-keeper for milling-machines. No. 1,392,681; Oct. 4.
Earle, Stanley B., Hornchurch, England. Stropping or sharpening apparatus for razor-blades. No. 1,392,309; Oct. 4.
Earp, Thue R., Chattanooga, Tenn. Tire-mold. No. 1,392,487; Oct. 4.
Eclipse Specialty Manufacturing Company. (See Meyer, John F., assignor.)
Edwards, James N., Shiatook, Okla. Pump-jack. No. 1,392,310; Oct. 4.
Egeland, Oscar, McVille, N. D. Time-controlled feeding device. No. 1,392,311; Oct. 4.
Egnell, Axel, Paris, France. Interlocking device. No. 1,392,630; Oct. 4.
Eisenhand, Henry G., Denver, Colo. Photoprinting device. No. 1,392,312; Oct. 4.
Eisenschmid, William, Etna, Pa., assignor to Pittsburgh Taximeter Company. Printing-taximeter. No. 1,392,631; Oct. 4.
Ek, Emil, Portland, Me., assignor to Adde & Company. Brake for lineal-measuring registers. No. 1,392,572; Oct. 4.
Ek, Emil, Portland, Me., assignor to Adde & Company. Register for lineal-measuring. No. 1,392,573; Oct. 4.
Electric Storage Battery Company, The. (See Flanders, Louis, H., assignor.)
Elwell, Cyril F. (See Lane, Charles J., assignor.)
Emley, Warren E., Washington, D. C. Making plastic calcined gypsum. No. 1,392,574; Oct. 4.
Empire Cream Separator Company. (See McCornack, Herbert, assignor.)
Eppler, Andrew, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,392,822; Oct. 4.
Estabrook, Charles E., Springport, Ind. Railway-tie and rail-fastener. No. 1,392,562; Oct. 4.
Etablissements Jacob Holtzer. (See Vergnlaud, Louis, assignor.)
Evans, William L. (See Ross, William H., assignor.)
Eynon, Howard B., Wellsville, N. Y. Brush connection. No. 1,392,563; Oct. 4.
Fauquenon, Harry, Chicago, Ill. Cushion-heel for shoes and the like. No. 1,392,823; Oct. 4.
Fallow, Gavin S., Wethersfield, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Screw-thread gage. No. 1,392,313; Oct. 4.
Farias, Robert, Pittsburgh, Pa. Rail-anchor. No. 1,392,407; Oct. 4.
Faust, Clyde A. (See Faust, Jacob N. and C. A.)
Faust, Jacob N. and C. A., Chicago, Ill. Garment-supporter. No. 1,392,314; Oct. 4.
Feibel, Jacob, New York, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,392,408; Oct. 4.
Fessler, Charles, assignor to Fisher Body Corporation, Detroit, Mich. Method and apparatus for protecting workmen sandpapering automobile-bodies. No. 1,392,870; Oct. 4.
Fetters, Arthur H. (See Fuller, Charles E., assignor.)
Feuerman, Richard. (See Hirk, William W., assignor.)
Fickles, William E., Norfolk, Va. Metal-reinforcing frame for concrete structures. No. 1,392,315; Oct. 4.
Finch, Stanley W., Washington, D. C., and E. M. Kennard, Clarendon, Va. Transmission-control device for motor-vehicles. No. 1,392,316; Oct. 4.
Fink, Henry A., Chicago, Ill., assignor to Continental Can Company, Inc., Syracuse, N. Y. Magazine for blanks of sheet metal. No. 1,392,750; Oct. 4.
Firestone Tire & Rubber Company, The. (See Bowman, Robert H., assignor.)
Firestone Tire and Rubber Company, The. (See Goedenberger, Daniel E., assignor.)
Firestone Tire and Rubber Company, The. (See Tuttle, John C., assignor.)
Fischer, Henry J., and B. M. Wolf, Manchester, N. H. Holder and illuminator for number-plates. No. 1,392,751; Oct. 4.
Fisher, Alfred. Chicago, Ill. Brass-furnace. No. 1,392,317; Oct. 4.
Fisher Body Corporation. (See Fessler, Charles, assignor.)
Fisher Body Corporation. (See Simpson, Emory G., assignor.)
Fisk, D. B., & Co. (See Henkel, August G., assignor.)
Fisk Rubber Company, The. (See Midgley, Thomas, assignor.)
Flanders, Ida Y., administratrix. (See Flanders, Louis H.)
Flanders, Louis H., deceased, Jenkintown, Pa.; I. Y. Flanders, administratrix, assignor to The Electric Storage Battery Company, Philadelphia, Pa. Filling apparatus for storage batteries and the like. No. 1,392,632; Oct. 4.
Fletcher, Charles F., Farmington, W. Va. Wrench. No. 1,392,318; Oct. 4.
Fletcher, Charlie F., Farmington, W. Va. Dirigible headlight for vehicles. No. 1,392,488; Oct. 4.
Foster, Joseph B., Roanoke, Va. Dental bridge. No. 1,392,824; Oct. 4.
Foster Machine Company. (See McKein, John O., assignor.)
Foulke, Francis E., Albany, N. Y. Rotary-valve packing-ring. No. 1,392,752; Oct. 4.
Franck-Philipson, Axel, Chicago, Ill. Producing solidified soluble disinfectant. No. 1,392,564; Oct. 4.
Franck, Val F., Louisville, Ky. Safety-razor. No. 1,392,753; Oct. 4.
Francke Co., The. (See Francke, William J., assignor.)
Francke, William J., Highland, Park, assignor to The Francke Co., New Brunswick, N. J. Uniform-motion universal joint. No. 1,392,754; Oct. 4.
Francke, William J., Highland Park, assignor to The Francke Co., New Brunswick, N. J. Flexible coupling. No. 1,392,755; Oct. 4.
Frank, Julius E., St. Louis, Mo. Belt. No. 1,392,319; Oct. 4.
Freeman-Daugbaday Company. (See Le Clair, Frank J., assignor.)
French, William H., Detroit, Mich. Propulsion means for vehicles. No. 1,392,565; Oct. 4.
Fritz, William C., Milwaukee, Wis. Incubator. No. 1,392,566; Oct. 4.
Fulghum, Claud L., Quincy, Ill. Elevator-door-operating mechanism. No. 1,392,320; Oct. 4.
Fullenwider, George R., Fairfield, Mont. Cigar-carrier. No. 1,392,409; Oct. 4.
Fuller, Charles E., assignor of one-half to A. H. Fetters, Omaha, Nebr. Steam-boiler low-water signal. No. 1,392,682; Oct. 4.
Fulton Company, The. (See Fulton, Weston M., assignor.)
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Centrifugal regulating device. No. 1,392,890; Oct. 4.
Gahan, Hugh N., Kelowna, British Columbia, Canada. T-square. No. 1,392,756; Oct. 4.
Gaines, Thomas R., Norwood, Ohio. Tags. No. 1,392,410; Oct. 4.
Gales, George T. W., Uniontown, Pa. Battery-clamp. No. 1,392,757; Oct. 4.
Gammeter, William F., Cadiz, Ohio. Stock-roll. No. 1,392,321; Oct. 4.
Gavin, John H., assignor, by mesne assignments, to Wolff Manufacturing Company, Chicago, Ill. Valve-stem for the valves of compression-cocks and the like. No. 1,392,411; Oct. 4.
Geer, Harry R., Johnstown, Pa. Universal mill. No. 1,392,489; Oct. 4.

Genth, Charles H., and W. Kline, Philadelphia, Pa. Combined measuring and dispensing device. No. 1,392,490; Oct. 4.

Gibbs, John C., Lancaster, Pa. Ice-cream freezer. No. 1,392,412; Oct. 4.

Gill, George W., assignor of one-fourth to W. L. Carroll, one-fourth to B. W. Ward, and one-fourth to G. Samberg, Battle Creek, Mich. Engine or motor. No. 1,392,522; Oct. 4.

Gilman, Emma G., Paterson, N. J. Duster. No. 1,392,633; Oct. 4.

Gladish, Laura, St. Louis, Mo. Supporting and stretching bracket for shades and curtains. No. 1,392,575; Oct. 4.

Glair, Harry F., assignor to Standard Oil Company, (of Indiana,) Whiting, Ind. Filtration. No. 1,392,758; Oct. 4.

Goddard, Joseph, assignor to Seneca Camera Manufacturing Company, Rochester, N. Y. View-finder for photographic cameras. No. 1,392,750; Oct. 4.

Goldberg, John H., Washington, D. C. Combination clothes hanger and brush. No. 1,392,634; Oct. 4.

Goldberg, Solomon H., Chicago, Ill., assignor to C. S. Bird, Walpole, Mass. Machine for making flexible waterproof roofing. No. 1,392,823; Oct. 4.

Gonsales, Ramon, Manila, Philippine Islands. Compasses. No. 1,392,525; Oct. 4.

Goodenberger, Daniel E., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Manufacturing solid tires. No. 1,392,576; Oct. 4.

Goodyear Tire & Rubber Company, The. (See Heffelinger, Glen B., assignor.)

Gordon, Wiley P., Edgefield, S. C., and T. B. Jacocks, Tarboro, N. C. Inner tube. No. 1,392,826; Oct. 4.

Gornlak, Josef, Denver, Colo. Beehive. No. 1,392,635; Oct. 4.

Gow, Alexander M., Duluth, Minn. Ore-washer. No. 1,392,413; Oct. 4.

Graber, Fred G., Canton, Ohio. Kitchen utensil. No. 1,392,491; Oct. 4.

Graf, Alexander, Berlin-Hermsdorf, Germany. Switch for electric circuits. No. 1,392,324; Oct. 4.

Graham, Charles W., Allendale, N. J., assignor to American Can Company, New York, N. Y. Machine for and method of lining can ends. No. 1,392,492; Oct. 4.

Graham, Charles W., Allendale, N. J., assignor to American Can Company, New York, N. Y. Semi-automatic gasket-lining machine. No. 1,392,493; Oct. 4.

Gray, Otto, *et al.* (See Augustin, Edwin J., assignor.)

Greene, Frederick J., Racine, Wis. Automatic riveting-machine. No. 1,392,494; Oct. 4.

Gregg Company, The. (See Gregg, Louis D., assignor.)

Gregg, Louis D., assignor to The Gregg Company, Limited, Hackensack, N. J. Journal-bearing. No. 1,392,636; Oct. 4.

Gremmels, Felix, Mannheim, Germany, assignor to Techno-Service Corporation, New York, N. Y. Balanced closing device for water-conduits. No. 1,392,637; Oct. 4.

Gremmels, Felix, Mannheim, Germany, assignor to Techno-Service Corporation, New York, N. Y. Ship-lock lift. No. 1,392,638; Oct. 4.

Griffin, John. (See Lloyd, Robert R., assignor.)

Griner, Clarence R., Bowling Green, Ohio. Pitman-tightening device. No. 1,392,760; Oct. 4.

Grove, Paul O., Buffalo, N. Y. Sign-letter and the like. No. 1,392,639; Oct. 4.

Gumaer, Albert P., East Orange, N. J. Portable shower-bath apparatus. No. 1,392,496; Oct. 4.

H. B. Corporation, The. (See Boedeker, Walter U., assignor.)

Haase, Leo G., Pasadena, Calif. Post. No. 1,392,577; Oct. 4.

Hackett, Henry, A. Smith, and C. Southall, Birmingham, England. Machine for wrapping sweetmeats and the like. No. 1,392,683; Oct. 4.

Hagey, J. Clarke, Chicago, and A. Swensen, Cicero, assignors to The Cable Company, Chicago, Ill. Indicating device usable with music-recording mechanism. No. 1,392,640; Oct. 4.

Hain, James C., Los Angeles, Calif. Concrete-form. No. 1,392,498; Oct. 4.

Hall Scott Motor Car Company. (See Buckstell, Glover E., assignor.)

Hallee, Onesime J., Chisholm, Me. Dam construction. No. 1,392,414; Oct. 4.

Hamilton, Edward E., Westfield, Mass. Bow-holder. No. 1,392,684; Oct. 4.

Hampson, James F., Edwin, Manitoba, Canada. Plow. No. 1,392,685; Oct. 4.

Hanson, Bengt M. W., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Vertical-surface-grinding machine. No. 1,392,325; Oct. 4.

Hardwick, James F., Gwensboro, Ky. Burglar-alarm. No. 1,392,326; Oct. 4.

Hardy, John N., H. D. Wilson, and D. S. Long, Waycross, Ga. Hot-water radiator. No. 1,392,801; Oct. 4.

Harlow, Ivan O. (See Jones, S. M., and Harlow.)

Harmer, Joseph J., New York, N. Y. Arc-light. No. 1,392,497; Oct. 4.

Harrison, James M., Cleveland, Ohio. Damper control for heat-exchange apparatus. No. 1,392,761; Oct. 4.

Hartley, John W. (See Roper, E. A., and Hartley.)

Hartwig, William J. (See Cullin, Jasper F., assignor.)

Hastings, Herbert, Brighton, N. Y. Combined fluid-level indicator and reserve-valve. No. 1,392,415; Oct. 4.

Hastings, Ruben C. M., assignor to International Telephone Company, Columbus, Ohio. Selective telephone system. No. 1,392,762; Oct. 4.

Hattersley, John M., Birmingham, England. Folding stereoscope. No. 1,392,327; Oct. 4.

Havran, John, Portland, Oreg. Curtain-shade circuit-closer. No. 1,392,641; Oct. 4.

Hawthorne Company, The. (See Nikonow, John P., assignor.)

Heath, Lewis W., and H. D. Cook, assignors to Consolidated Press Company, Hastings, Mich. Swaging and forging press. No. 1,392,328; Oct. 4.

Hebner, George J., Rochester, N. Y. Adjustable ladder. No. 1,392,642; Oct. 4.

Hedtler, Robert S., and M. R. Taylor, Norfolk, Va. Variable direction propelling apparatus. No. 1,392,763; Oct. 4.

Heffelinger, Glen B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Measuring and cutting apparatus. No. 1,392,871; Oct. 4.

Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,392,827; Oct. 4.

Hemphill, Henry B., assignor of one-fourth to A. Bucovaz and one fourth to R. Ciavora, Eldorado, Ill. Burner for stoves. No. 1,392,643; Oct. 4.

Henderson, John C., New York, N. Y., assignor to Driver-Harris Company, Harrison, N. J. Producing compound metals. No. 1,392,416; Oct. 4.

Henkel, August G., assignor to D. B. Fisk & Co., Chicago, Ill. Hat-shaping device. No. 1,392,826; Oct. 4.

Henney, David S., Montclair, N. J. Spark-plug. No. 1,392,329; Oct. 4.

Heppes, Otto A., Chicago, Ill., and C. E. Rahr, Brookline, Mass. Process of making prepared roofing and apparatus used in connection therewith. No. 1,392,498; Oct. 4.

Hibbs, Cassell D., Fort Worth, Tex. Machine for cutting tire-casing treads and removing beads. No. 1,392,330; Oct. 4.

Hicks, Rex P., assignor to Hicks Tractor Company, Milwaukee, Wis. Tractor-tread. No. 1,392,417; Oct. 4.

Hicks Tractor Company. (See Hicks, Rex P., assignor.)

Higuchi, Monnosuke, assignor of one-half to T. Matsuoka, College Point, N. Y. Racing game. No. 1,392,764; Oct. 4.

Hill, Leslie A., Dallas, Tex. Arrangement and construction of self-service store-fixtures. No. 1,392,418; Oct. 4.

Hillman, Swan. (See Aldeen, R. A., and Hillman.)

Hirt, William W., Zion City, Ill., assignor of one-half to R. Feuerman. Sewing-machine attachment. No. 1,392,872; Oct. 4.

Hjorth, Fred, Harlan, Iowa. Tire-pump. No. 1,392,829; Oct. 4.

Hofmeister, Frank J., and J. O. Middaugh, Yonkers, N. Y. Gear-shift means for automobile transmission. No. 1,392,830; Oct. 4.

Horine, Merrill C., assignor to International Motor Company, New York, N. Y. Planetary driving gear. No. 1,392,567; Oct. 4.

Horn, Joseph, West Orange, F. H. May, Montclair, and J. Meilner, West Orange, N. J. Alarm. No. 1,392,568; Oct. 4.

Hotchkin, D. H. (See Rees, Frank W., assignor.)

Howard, Fred H., Stirling, Ontario, Canada. Automobile-lock. No. 1,392,499; Oct. 4.

Howe, Solon G., assignor of one-half to W. Brotherton, Detroit, Mich. Track road-bed and forming the same. No. 1,392,500; Oct. 4.

Hudson, James C., Gorman, Tex. Wheel and shaft. No. 1,392,501; Oct. 4.

Hugetz, Edward, New York, N. Y. Self-filling fountain-pen. No. 1,392,569; Oct. 4.

Hulbert, John L., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Milking-machine pulsator. No. 1,392,570; Oct. 4.

Hunter, George L., Fletcher, Okla. Staple-puller. No. 1,392,765; Oct. 4.

Hussey, John A., De Kalb, Ill. Pianissimo device for grand pianos. No. 1,392,331; Oct. 4.

Huth, Walter H., Chicago, Ill. Musical instrument for teaching. No. 1,392,766; Oct. 4.

Hynes, Lee P., assignor to Consolidated Car Heating Company, Albany, N. Y. Electric switch. No. 1,392,332; Oct. 4.

Hynes, Lee P., assignor to Consolidated Car Heating Company, Albany, N. Y. Car-heater. No. 1,392,686; Oct. 4.

Ibach, Bute. (See Lawrence, Richard N., assignor.)

Illingworth, William H., Halifax, England. Electrical cut-out or circuit-breaker. No. 1,392,873; Oct. 4.

Imber, Jack, London, England. Tank or receptacle for combustible or other liquids. No. 1,392,892; Oct. 4.

Imlach, William G., Berwyn, Ill. Making rails for printing-plates. No. 1,392,502; Oct. 4.

Ingleton, James W., Astoria, Oreg. Saw-set. No. 1,392,644; Oct. 4.

International Motor Company. (See Horine, Merrill C., assignor.)

International Motor Company. (See Masury, Alfred F., assignor.)

International Moving Picture Film Company, The. (See Bingham, George W., assignor.)

International Telephone Company. (See Hastings, Ruben C. M., assignor.)

Intertype Corporation. (See Pierson, Edwin W., assignor.)

Jackson, Edmond, Newport News, Va. Floor-mat and making same. No. 1,392,333; Oct. 4.

Jackson, Thaddeus A., Brooklyn, N. Y. Endless saw. No. 1,392,503; Oct. 4.

Jacocks, Thomas B. (See Gordon, W. P., and Jacocks.)

James, Edward E., San Francisco, Calif. Slag-furnace. No. 1,392,504; Oct. 4.

Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)

Jelenko, J. F., & Co. (See Aderer, Hugo, assignor.)

Johnson, Arthur B., U. S. Navy. Automatic regulating-valve. No. 1,392,334; Oct. 4.

Johnson, Charles W., assignor to Wm. Wrigley Jr. Company, Chicago, Ill. Culling-machine. No. 1,392,505; Oct. 4.

Johnson, Roland E., Medford, Mass. Window-lock. No. 1,392,335; Oct. 4.

Johnson, William E., St. Joseph, Mo. Vulcaniser. No. 1,392,646; Oct. 4.

Johnston, Aaron J., Pysht, Wash. Fair-leader. No. 1,392,687; Oct. 4.

Johnston, Geo. S., Company. (See Johnston, George S., assignor.)

Johnston, George S., assignor to Geo. S. Johnston Company, Evanston, Ill. Goggles. No. 1,392,832; Oct. 4.

Johnston, William C., Milwaukee, Wis. Vacuum-cleaner. No. 1,392,874; Oct. 4.

Jolivet, Gustave. (See Pereira, G., and Jolivet.)

Jones, David W., Chicago, Ill. Steering-gear. No. 1,392,646; Oct. 4.

Jones, Ira W., Lebanon, Me. Rack-cleaning device. No. 1,392,647; Oct. 4.

Jones, Palmer J., Port Washington, N. Y. Educational apparatus. No. 1,392,578; Oct. 4.

Jones, Samuel M., and I. O. Harlow, assignor to Arnold Print Works, North Adams, Mass. Mercerization. No. 1,392,833; Oct. 4.

Jones, William R., Marlin, Tex. Unloading device. No. 1,392,419; Oct. 4.

Jorgensen, Bernhardt, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for shaping uppers over lasts. No. 1,392,336; Oct. 4.

Joy, Joseph F., Pittsburgh, Pa. Means for railway-track extensions. No. 1,392,648; Oct. 4.

Kargus, Walter, *et al.* (See Stoewsand, Charles F., assignor.)

Kay, Gordon, New York, assignor to C. G. Percy, Yonkers, N. Y. Collapsible-carton display. No. 1,392,337; Oct. 4.

Kegresse, Adolphe, Czarskoie Selo, Russia. Automobile-sleigh suspension. No. 1,392,688; Oct. 4.

Kellogg, Luke L., Fredonia, N. Y. Automobile-lifter. No. 1,392,338; Oct. 4.

Kelly, James P., New York, N. Y. Cord-tip. No. 1,392,339; Oct. 4.

Kendall, Edward C., Rochester, Minn. Thyroid substance and making it. No. 1,392,768; Oct. 4.

Kendall, Edward C., Rochester, Minn., assignor to University of Minnesota. Thyroid product and preparing the same. No. 1,392,767; Oct. 4.

Kennard, Edward M. (See Finch, S. W., and Kennard.)

Kiessling, Edmund F., Oakland, Calif. Direction-indicator. No. 1,392,506; Oct. 4.

King, John, Williams Lake, British Columbia, Canada. Water-wheel. No. 1,392,893; Oct. 4.

Kissinger, Robert C., Dayton, Ohio. Tire-carrier. No. 1,392,507; Oct. 4.

Kitchen, John G. A., Lancaster, England. Means for varying the speed and stopping way of aircraft without slowing the propeller. No. 1,392,831; Oct. 4.

Kline, William. (See Genth, C. H., and Kline.)

Koretsky, Harry M., New York, N. Y. Portable electric light. No. 1,392,420; Oct. 4.

Kramlich, John M., Fox Chase, Pa. Toy vehicle. No. 1,392,834; Oct. 4.

Kresse, Ernst O. R., Brooklyn, N. Y. Shoe-heel. No. 1,392,769; Oct. 4.

Krohn, John, Newark, N. J. Mechanical movement. No. 1,392,508; Oct. 4.

Kryder, Frank L., Akron, Ohio. Shoe attachment. No. 1,392,579; Oct. 4.

Kunkel, Victor V. (See Crawford, Beatty M., assignor.)

Kusel, Isidor J., Chicago, Ill. Small-coin bank. No. 1,392,689; Oct. 4.

Landau, Benjamin, Philadelphia, Pa. Shower-bath cabinet. No. 1,392,580; Oct. 4.

Lane, Charles J., assignor to C. F. Elwell, London, England. Apparatus for galvanising or otherwise coating articles. No. 1,392,509; Oct. 4.

Lane, Edwin B., West Hoboken, N. J. Thermostat. No. 1,392,340; Oct. 4.

Lang, Charles R., assignor to G. & J. Weir, Limited, Glasgow, Scotland. Feed-water system for steamships. No. 1,392,341; Oct. 4.

Lang, Martin H., assignor to Lang Tractor Company, Minneapolis, Minn. Traction-engine. No. 1,392,421; Oct. 4.

Lang Tractor Company. (See Lang, Martin H., assignor.)

Langhaus, Morris, New York, N. Y. Drink-mixer. No. 1,392,875; Oct. 4.

Lapointe, Francis J., Ann Arbor, Mich. Broaching-machine. No. 1,392,770; Oct. 4.

La Reine Hair Waver and Curler Company Limited. (See Berkovi, Leopold, assignor.)

Larkins, Ernest M., assignor to George Cutter Company, South Bend, Ind. Socket and reflector. No. 1,392,810; Oct. 4.

Laupretre, Claude, Mantes, France, assignor of one-half to Société Anonyme des Ateliers et Chantiers de la Loire, Paris, France. Ship's porthole, scuttle, and the like. No. 1,392,771; Oct. 4.

Lawrence, Richard N., assignor of one-half to B. Ibach, Eldora, Iowa. Automobile-lock. No. 1,392,772; Oct. 4.

Laycock, Arthur M., Fortyfort, Pa. Universal joint. No. 1,392,842; Oct. 4.

Leaf, Max, Youngstown, Ohio. Bed-clamp. No. 1,392,581; Oct. 4.

Le Clair, Frank J., Attleboro, assignor to Freeman-Daughaday Company, Chartley, Mass. Holder for collars. No. 1,392,582; Oct. 4.

Lee, Hugh W., and J. W. Swindale, assignors to Sir W. G. Armstrong, Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Apparatus for loading ordnance. No. 1,392,583; Oct. 4.

Leishman, Orson M., Baker, Oreg. Load-securing means for freight-cars. No. 1,392,343; Oct. 4.

Lemmer, Paul J., Groton, Conn. Envelop. No. 1,392,344; Oct. 4.

Lemoine, Joseph E., Vancouver, British Columbia, and C. W. O'Neal, Union Bay, British Columbia, Canada. Whistle-operating connection. No. 1,392,773; Oct. 4.

Leonard, Chester S., Lansdowne, Pa. Fruit-pitting machine. No. 1,392,690; Oct. 4.

Leonard, John E., Los Angeles, Calif., assignor, by mesne assignments, to Mitchell Camera Co. Adjustable iris for cameras. No. 1,392,876; Oct. 4.

Lepak, Henry, Minneapolis, Minn. Grain-treating machine. No. 1,392,649; Oct. 4.

Lerevers, Robert R., Cairo, Ill. Sole-channeling cutter. No. 1,392,422; Oct. 4.

Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine truck. No. 1,392,835; Oct. 4.

Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine truck. No. 1,392,836; Oct. 4.

Lewinson, Hyman, Erie, Pa. Self-filling fountain-pen. No. 1,392,837; Oct. 4.

Lewinson, Hyman, Erie, Pa. Self-filling fountain-pen. No. 1,392,838; Oct. 4.

Lewis, Frank B., and T. S. Cooke, assignors to Standard Oil Company, Whiting, Ind. Distilling petroleum-oils. No. 1,392,584; Oct. 4.

Lewis, John E., Milwaukee, Wis. Selective change-making machine. No. 1,392,691; Oct. 4.

Lewis, Robert, Topeka, Kans. Lantern. No. 1,392,774; Oct. 4.

Liken, Clarence L., Enid, Okla. Flagman's lantern. No. 1,392,775; Oct. 4.

Lill, Jacob, Chicago, Ill. Corner-brace. No. 1,392,839; Oct. 4.

Lindbladh, Harmon E., Boston, Mass. Pen-clamp for ruling-machines. No. 1,392,423; Oct. 4.

Lindholm, Arthur C., Springfield, Mass. Recoating attachment. No. 1,392,585; Oct. 4.

Lindquist, Charles A. and E. V., Des Moines, Iowa, assignors to Qupee Hose Supporter Company, Eau Claire, Wis. Hose-supporter. No. 1,392,776; Oct. 4.

Lindquist, Eric V. (See Lindquist, Charles A. and E. V.)

Link, George N. (See Benjamin, D. H., and Link.)

Linstrom, Frank O., Watertown, and P. A., Castlewood, S. D. Headlight for vehicles. No. 1,392,424; Oct. 4.

Linstrom, Peter A. (See Linstrom, Frank O. and P. A.)

Lippold, Carl T., Los Angeles, Calif. Tire-blow-out clamp and emergency mud-hook. No. 1,392,425; Oct. 4.

Ljungström, Fredrik, Brevik, Lidingön, assignor to Aktiebolaget Ljungstrom Angturbin, Stockholm, Sweden. Air-cooled locomotive-condenser. No. 1,392,511; Oct. 4.

Lloyd, Robert R., assignor of one-half to J. Griffin, Des Moines, Iowa. Puncture-proof inner tube. No. 1,392,894; Oct. 4.

Loewenbach, Hugo, Hartland, assignor to Automatic Bowling Alley Co., Milwaukee, Wis. Game apparatus. No. 1,392,586; Oct. 4.

Long, David S. (See Hardy, J. N., Wilson, and Long.)

Longman, Garfield D. (See Putnam, W., and Longman.)

Loveless, John M., Glezen, Ind. Auto-carrier. No. 1,392,777; Oct. 4.

Low, Arthur B., Denver, Colo. Pressure-gage. No. 1,392,587; Oct. 4.

Lowe, Robert G., Clawson, Mich. Power-agitator. No. 1,392,345; Oct. 4.

Lübcke, Hermann K. E., Lübeck, Germany. Taximeter. No. 1,392,895; Oct. 4.

Lukenbach, William W., Philadelphia, Pa. Sanitary telephone device. No. 1,392,840; Oct. 4.

McCarty, William F., assignor to Defiance Machine Works, Defiance, Ohio. Boring-machine. No. 1,392,778; Oct. 4.

McCloskey, John E., Johnstown, Pa. Shade-roller support. No. 1,392,512; Oct. 4.

McCollough, W. A., & Sons. (See McCollough, William A., assignor.)

McCollough, William A., assignor to W. A. McCollough & Sons, Inc. Hog-waterer. No. 1,392,513; Oct. 4.

McCornack, Herbert, assignor to Empire Cream Separator Company, Bloomfield, N. J. Pulsating mechanism. No. 1,392,346; Oct. 4.

McCoy, Josephine, Sandusky, Ohio. Stovepipe-holder. No. 1,392,841; Oct. 4.

McElhaney, James R., Vandergrift, assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa. Method and apparatus for making terne plates. No. 1,392,665; Oct. 4.
McGill, Wisdom, Waco, Tex. Lock. No. 1,392,514; Oct. 4.
McKeen, John O., assignor to ceter Machine Company, Westfield, Mass. Device for guiding, cleaning, and tensioning yarn. No. 1,392,515; Oct. 4.
McKelvey, Louis F., and J. A. Rauschenberger, Indianapolis, Ind. Photo-film clip. No. 1,392,516; Oct. 4.
McMahon, Patrick S. (See Bosung, J. A., and McMahon.)
McManamen, John J., Mitchell, S. D., C. F. Smith, and A. L. Munro, assignors to Smith Engineering Works, Milwaukee, Wis. Sand and gravel washer. No. 1,392,779; Oct. 4.
McMillian, John F., Humble, Tex. Fishing-tool. No. 1,392,650; Oct. 4.
MacDonald, John P., Chester, Pa. Grinding-tool. No. 1,392,426; Oct. 4.
MacLeod, Angus P. (See MacLeod, George S., assignor.)
MacLeod, George S., assignor of one-half to A. P. MacLeod, Seattle, Wash. Front-bumper bracket. No. 1,392,427; Oct. 4.
MacLeod, George S., assignor of one-half to A. P. MacLeod, Seattle, Wash. Rear-bumper bracket for automobiles. No. 1,392,428; Oct. 4.
Maheux, Henri, Montreal, Quebec, Canada. Match-box. No. 1,392,429; Oct. 4.
Mamalakis, John E., assignor of one-third to C. P. Ballas and one-third to G. J. Cajoleas, Opelousas, La. Holder. No. 1,392,842; Oct. 4.
Marsh, Henry S., and R. S. Cochran, Youngstown, Ohio. Pickling metal articles. No. 1,392,780; Oct. 4.
Marsh, Henry S., and R. S. Cochran, Youngstown, Ohio. Apparatus for pickling metal articles. No. 1,392,781; Oct. 4.
Marsh, Howard E. (See Starr, E. B., and Marsh.)
Marsh, Orlando R., Chicago, Ill. Phonograph-reproducer. No. 1,392,430; Oct. 4.
Marsh, W. J., et al. (See Berry, George A., assignor.)
Marshall, Albert H., Chicago, Ill. Apparatus for dispensing and printing paper tape. No. 1,392,692; Oct. 4.
Marshall, Alfred M., Savannah, Ga. Mixing and screening device for fertilizers and the like. No. 1,392,589; Oct. 4.
Martin, William C., Memphis, Tenn. Backband-hook. No. 1,392,843; Oct. 4.
Massury, Alfred F., assignor to International Motor Company, New York, N. Y. Drive for motor-vehicles. No. 1,392,517; Oct. 4.
Matsuoka, Tokichi. (See Higuchi, Monnosuke, assignor.)
May, Ferdinand H. (See Horn, J., May, and Meilnor.)
Measuregraph Company, The. (See Turner, Douglas, assignor.)
Meilner, Josef. (See Horn, J., May, and Meilner.)
Merolle, Augustus L., assignor to L. R. N. Carvalho, Brooklyn, N. Y. Cap-threading machine. No. 1,392,844; Oct. 4.
Merrick, Frank W., assignor to Union Lock Stitch Company, Boston, Mass. Lasting-machine. No. 1,392,590; Oct. 4.
Merrill, Ayres P., Natches, Miss. Plow and pulveriser. No. 1,392,845; Oct. 4.
Meyer, Ferd H., Oakland, Calif. Grouser for tractor-treads. No. 1,392,693; Oct. 4.
Meyer, John F., Chicago, Ill., assignor, by mesne assignments, to Eclipse Specialty Manufacturing Company. Timer for internal-combustion engines. No. 1,392,694; Oct. 4.
Meyer, Ralph F., Freeport, Pa. Ignition mechanism. No. 1,392,431; Oct. 4.
Middaugh, James O. (See Hofmeister, F. J., and Middaugh.)
Midgley, Ernest C., Wheatland, N. D. Snow-removing machine. No. 1,392,877; Oct. 4.
Midgley, Ernest C., Wheatland, N. D. Dimmer. No. 1,392,878; Oct. 4.
Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Collapsible core. No. 1,392,347; Oct. 4.
Miles, Frederick C., San Francisco, Calif. Auto attachment. No. 1,392,432; Oct. 4.
Militor Corporation, The. (See Neuteboom, Boudewijn E., assignor.)
Miller, Frank S., St. Louis, Mo. Fuel-saving device. No. 1,392,695; Oct. 4.
Miller, Frederick C., Chicago, Ill. Wheel-tire. No. 1,392,433; Oct. 4.
Miller, John C. (See Tuttle, E. H., Miller, and Baldwin.)
Miller, Robert M., Milwaukee, Wis. Vise. No. 1,392,434; Oct. 4.
Mills Belt Company. (See Batcheider, Frank R., assignor.)
Milner, William J., Stockton, Calif. Automatic press for concrete blocks. No. 1,392,435; Oct. 4.
Minney, Arthur W., Stockton, Calif. Wrench. No. 1,392,651; Oct. 4.
Minney, Arthur W., Stockton, Calif. Wrench. No. 1,392,782; Oct. 4.
Miah, George F., Inwood, W. Va. Sled. No. 1,392,783; Oct. 4.
Mitchell Camera Co. (See Leonard, John E., assignor.)
Mittag & Volger. (See Stark, Harry S., assignor.)
Mobley, Ora, Cincinnati, Ohio. Tire-tool. No. 1,392,591; Oct. 4.
Molyneux, George B., Bayonne, N. J. Controlling device for mechanisms, &c. No. 1,392,696; Oct. 4.
Morton, Harry D., assignor to Automatic Arc Welding Company, Detroit, Mich. Method of and apparatus for arc-welding. No. 1,392,436; Oct. 4.
Morton, Harry D., assignor to Automatic Arc Welding Company, Detroit, Mich. Arc-welding system and operating the same. No. 1,392,437; Oct. 4.
Mosant, William D., Lynchburg, Va. Power-transmission device. No. 1,392,845; Oct. 4.
Munro, Alexander L. (See McManamen, J. J., Smith, and Munro.)
Murphy, Edward F. (See Murphy, Hugh J. and E. F.)
Murphy, Hugh J. and E. F., Troy, N. Y. Trolley-mount. No. 1,392,846; Oct. 4.
Musay, William H., Chicago, Ill. Fuel-feeding device for automobiles. No. 1,392,652; Oct. 4.
National Safety Appliance Company. (See Wist, E., and Chittenden, assignors.)
Nebeling, Edmund E., New York, N. Y. Clasp for teeth. No. 1,392,784; Oct. 4.
Needham, John B., Glasgow, Scotland. Molding machine. No. 1,392,697; Oct. 4.
Nelson, Arvid R., Mediapolis, Iowa. Manure-loader. No. 1,392,653; Oct. 4.
Nelson, Joseph W., and R. S. Coulter, St. Cloud, Minn. Connecting-rod-oiling means. No. 1,392,592; Oct. 4.
Nelson, Nordahl O., Westby, Wis. Sleigh attachment for autos. No. 1,392,438; Oct. 4.
Neubert, Richard L., Knoxville, Tenn. Traveling hoist. No. 1,392,785; Oct. 4.
Neuland, Alfons H., assignor to Neuland Electrical Company, Inc., San Francisco, Calif. Electro-magnetic transmission. No. 1,392,849; Oct. 4.
Neuland Electrical Company. (See Neuland, Alfons H., assignor.)
Neuteboom, Boudewijn E., Detroit, Mich., assignor to The Militor Corporation, New York, N. Y. Power-transmitting mechanism. No. 1,392,439; Oct. 4.
New England Confectionery Company. (See Thomas, Lester O., assignor.)
New Idea Spreader Company, The. (See Synck, H., and Rollman, assignors.)
Newsom, Joseph N., assignor to The Newsom Valve Company, St. Louis, Mo. Valve control for pneumatic tires. No. 1,392,440; Oct. 4.
Newsom Valve Company, The. (See Newsom, Joseph N., assignor.)
Newton, Robert W., Providence, R. I. Automatic sprinkler. No. 1,392,593; Oct. 4.
Nicholson, Alexander M., Hilladale, N. J. Method and apparatus for steering vessels. No. 1,392,786; Oct. 4.
Nicoson, Lemuel C., Alexandria, Ind., assignor to American Trust Company, trustee, New York, N. Y. Adjustable automobile-holder. (Reissue.) No. 15,203; Oct. 4.
Nikonow, John P., New York, N. Y., assignor, by mesne assignments, to The Hawthorne Company, Bridgeport, Conn. Electric lamp. No. 1,392,441; Oct. 4.
Niles Bement Pond Company. (See Sears, Willard T., assignor.)
Nobel's Explosives Company. (See Rintoul, W., Nolan, and Strickland, assignors.)
Nolan, Thomas J. (See Rintoul, W., Nolan, and Strickland.)
Norman, Orville P., assignor of one-half to L. A. Winter, Los Angeles, Calif. Automatic cutlery-grinder. No. 1,392,698; Oct. 4.
O'Brien, Daniel M., Sayre, Pa. Ventilator for shoes. No. 1,392,350; Oct. 4.
Odhner, Valentin J., Stockholm, Sweden. Locking device in calculating-machines. No. 1,392,847; Oct. 4.
Ohio Brass Company, The. (See Darrah, W. A., and Averill, assignors.)
Olsen, George A., Jersey City, N. J. Tricycle. No. 1,392,848; Oct. 4.
Omnigraph Company, The. (See Strawn, Ervin E., assignor.)
O'Neal, Clement W. (See Lemoine, J. E., and O'Neal.)
Osgwald, Herman, Richmond Hill, N. Y., assignor to The V. & O. Press Company. Safety-guard for presses. No. 1,392,699; Oct. 4.
Owens, George B., Merriam, Kans. Direction-indicating signal. No. 1,392,442; Oct. 4.
Oyen, Henry M., Chicago, Ill. Lung-exercising device. No. 1,392,700; Oct. 4.
P & M Company. (See Barnett, Otto R., assignor.)
Paranteau, George R., Simi, Calif. Fruit-pitting machine. No. 1,392,518; Oct. 4.
Paranteau, George R., Ventura, Calif. Knife for fruit-pitting machines. No. 1,392,519; Oct. 4.
Paranteau, George R., Ventura, Calif. Fruit-holder for pitting-machines. No. 1,392,520; Oct. 4.
Paris, Auguste J., Jr., Bradford, Pa. Distilling solids and liquids and of cracking solids, liquids, and gases. No. 1,392,788; Oct. 4.
Paris, Ezekiel N., Shawnee, Okla. Churn. No. 1,392,7[illegible] Oct. 4.
Parker, Dempsey P., Osteen, Fla. Rail-joint. No. 1,392,700; Oct. 4.
Parks, Ray F., deceased, Melrose, Iowa; W. E. Parks, administrator. Card game. No. 1,392,351; Oct. 4.
Parks, W. E., administrator. (See Parks, Ray F.)

Pate, Robert L., Springfield, Mo. Device for controlling the temperature of automobile-radiators. No. 1,392,521; Oct. 4.
Pate, Robert L., Springfield, Mo. Device for controlling the temperature of automobile-radiators. No. 1,392,522; Oct. 4.
Percy, Carl G. (See Kay, Gordon, assignor.)
Pereire, Gustave and G. Jolivet, Paris, France. Railway-carriage of large capacity. No. 1,392,523; Oct. 4.
Perfect'ase Corporation, The. (See Pfrommer, W. D., and Adams, assignor.)
Perina, Edward, Port Richmond, N. Y. Filling device for fountain-pens. No. 1,392,560; Oct. 4.
Perkins, Alvin C., assignor of one-half to L. B. Perkins, Goodland, Ind. Litter-carrier. No. 1,392,594; Oct. 4.
Perkins, Daniel B., Providence, R. I. Razor-blade sharpener. No. 1,392,701; Oct. 4.
Perkins, Leo E. (See Perkins, Alvin C., assignor.)
Peterson, William, De Witt, Nebr. Wrench. No. 1,392,443; Oct. 4.
Peterson, Carl E., Kerkhoven, Minn. Plow-beam brace. No. 1,392,444; Oct. 4.
Peterson, Peter A., Omaha, Nebr. Dump-wagon. No. 1,392,445; Oct. 4.
Pettee, Herbert E., Providence, R. I. Carrier for pasteboard containers. No. 1,392,791; Oct. 4.
Pfrommer, William D., West Berlin, N. J., and F. W. Adams, Milbourne, assignors to The Perfect'ase Corporation, Philadelphia, Pa. Sound-conveyer for talking-machines. No. 1,392,654; Oct. 4.
Phillips, John H., Chicago, Ill. Drill-chuck or the like. No. 1,392,702; Oct. 4.
Phillips, John H., Chicago, Ill. Expansion-shell. No. 1,392,703; Oct. 4.
Pierce, George L., Brooklyn, assignor to A. G. Spalding & Bros., New York, N. Y. Athletic shoe. No. 1,392,704; Oct. 4.
Pierson, Edwin W., Newark, N. J., assignor to Intertype Corporation, Brooklyn, N. Y. Line-stop for typographical machines. No. 1,392,702; Oct. 4.
Pirko, Jan, Elisabethport, N. J. Combination furniture. No. 1,392,595; Oct. 4.
Plakney, Bryan D., Newport, Ky. Dough-mixer. No. 1,392,446; Oct. 4.
Pittsburgh Taximeter Company. (See Eisenschmid, William, assignor.)
Plauson, Hermann, Hamburg, Germany, assignor to D. R. Rotman, New York, N. Y. Manufacture of dispersoids, colloid powder and masses therefrom. No. 1,392,849; Oct. 4.
Postel-Vinay, Pierre J. E., assignor to Societe Des Moteurs Salmson (Systeme Canton-Unne), Paris, France. Device for fixing an engine in an aeroplane. No. 1,392,655; Oct.
Power Specialty Company. (See Bell, John E., assignor.)
Pratt & Whitney Company. (See Fallew, Gavin L., assignor.)
Pratt & Whitney Company. (See Hanson, Bengt. M. W., assignor.)
Praetorious, Irwin W., Chicago, Ill. Razor-blade sharpener. No. 1,392,705; Oct. 4.
Pressed Steel Car Company. (See Streib, John F., assignor.)
Prestwich, Sydney, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Control for extractors. No. 1,392,852; Oct. 4.
Prots, George L., Clovis, N. Mex. Fuel-economizer. No. 1,392,447; Oct. 4.
Puening, Franz, assignor to American Tar Products Company, Chicago, Ill. Process and apparatus for coking pitch. No. 1,392,679; Oct. 4.
Pugh, Charles H., Limited. (See Bull, George F., assignor.)
Puiggari, Miguel, and N. Venesia, Buenos Aires, Argentina. Purifying and clarifying of water. No. 1,392,524; Oct. 4.
Putnam, Wilbur, and G. D. Longman, Lake Charles, La. Grain-drier. No. 1,392,794; Oct. 4.
Quasi-Arc Company. (See Cole, William L., assignor.)
Quinn, Thomas, Huntington, W. Va. Extension-rail. No. 1,392,353; Oct. 4.
Qupee Hose Supporter Company. (See Lindquist, Charles A. and E. V., assignors.)
Rahr, Chester E. (See Heppes, O. A., and Rahr.)
Randall, Charles F., Chicago, Ill. Dumping device. No. 1,392,448; Oct. 4.
Ray, Eugene J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Skiving-machine. No. 1,392,596; Oct. 4.
Reed, Charles A., Williamsport, Pa. Apparatus for making ornamental rope. No. 1,392,795; Oct. 4.
Rees, Frank W., assignor of one-half to D. H. Hotchkin, Seattle, Wash. Spotlight-lamp bracket. No. 1,392,850; Oct. 4.
Reiley, Matthew S., Ocean Park, Calif. Valve. No. 1,392,554; Oct. 4.
Reinhalter, Peter, Wilkes-Barre, Pa. Screwdriver attachment. No. 1,392,796; Oct. 4.
Reliance Machine & Specialty Co. (See Bartlett, Leonard, assignor.)
Remington Typewriter Company. (See Felbel, Jacob, assignor.)
Remington Typewriter Company. (See Seib, George A., assignor.)
Renken, Anton F., Crete, Nebr. Animal-trap. No. 1,392,797; Oct. 4.
Rennie, Edward J. (See Crabb, G. W. J., and Rennie.)
Rew, William O., Eureka, assignor to California Central Creameries, San Francisco, Calif. Deodorizer. No. 1,392,656; Oct. 4.
Reynolds, James K., Scottdale, Pa. Weaving-machine. No. 1,392,657; Oct. 4.
Reznor, George F., Mercer, Pa. Oil-heater. No. 1,392,525; Oct. 4.
Rhode, Fred C., Fairview, Mont. Combined jack and rim-contractor. No. 1,392,355; Oct. 4.
Rhodes, Daniel S., Gloversville, N. Y. Rethreading-tool. No. 1,392,705; Oct. 4.
Ricardo, Harry R., London, England. Mechanism for the driving of cam-shafts of internal-combustion engines. No. 1,392,597; Oct. 4.
Rice, Harvey T., Norfolk, N. Y. Collapsible shaft. No. 1,392,798; Oct. 4.
Richards, Bernard W., Chicago, Ill. Cut-off for gasoline-feed on motor-vehicles. No. 1,392,449; Oct. 4.
Richards, James N. (See Westman, William H. and A. D., and Richards.)
Richardson, John H., Melrose, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for trimming soles. No. 1,392,799; Oct. 4.
Rintoul, William, T. J. Nolan, and O. W. Strickland, assignors to Nobel's Explosives Company, Limited, Stoventson, Scotland. Explosive. No. 1,392,851; Oct. 4.
Rixson, Oscar C., New Rochelle, N. Y. Suspension for vehicles. No. 1,392,356; Oct. 4.
Robbins, William W., Lorain, Ohio. Mining machinery. No. 1,392,598; Oct. 4.
Roberts, Alvin L., Philadelphia, Pa. Rolled metal section. No. 1,392,800; Oct. 4.
Rochon, Charles, Fall River, Mass. Window-screen. No. 1,392,706; Oct. 4.
Rodgers, John E., Imperoyal, Nova Scotia, Canada. Fuel-oil burner. No. 1,392,450; Oct. 4.
Roesch, Alfred, assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Capillary tube and making the same. No. 1,392,658; Oct. 4.
Rollman, Bruce B. (See Synck, H., and Rollman.)
Rooss, Herbert H., Lincoln, Nebr. Clamping device for shoe-heels. No. 1,392,357; Oct. 4.
Roper, Ernest A., Oakworth, near Keighley, and J. W. Hartley, Haworth, near Keighley, England. Weighing apparatus. No. 1,392,659; Oct. 4.
Rose, Albert F., Tulsa, Okla. Fishing-tool. No. 1,392,599; Oct. 4.
Rose, William H., Jersey City, N. J. Liquid-soap dispenser. No. 1,392,600; Oct. 4.
Rose, William H., Jersey City, N. J. Soap-dispenser. No. 1,392,601; Oct. 4.
Rosencrans, Emil C., Evansville, Ind. Adjustable window-curtain bracket. No. 1,392,602; Oct. 4.
Ross, Roger I., Troy, Ohio. Gum-tape cutter and moistener. No. 1,392,358; Oct. 4.
Ross, William H., Washington, D. C., assignor of one-half to W. L. Evans, Columbus, Ohio. Preparing ethylene and other unsaturated hydrocarbons. No. 1,392,852; Oct. 4.
Rotman, D. R. (See Plauson, Hermann, assignor.)
Rowe, William N., Hibbing, Minn. Air-lifting device. No. 1,392,451; Oct. 4.
Roy, Alexander, Hill City, S. D. Ore-car. No. 1,392,801; Oct. 4.
Ruckstell, Glover E., assignor to Hall Scott Motor Car Company, Incorporated, San Francisco, Calif. Transmission-bearing and universal-joint cap. No. 1,392,452; Oct. 4.
Rudqvist, Carl, Munich, Germany. Two-stroke-cycle engine. No. 1,392,359; Oct. 4.
Russell, Nelson J., Chicago, Ill. Fuel-saving device for furnaces. No. 1,392,453; Oct. 4.
Ryan, Patrick J., New York, N. Y. Anchor. No. 1,392,526; Oct. 4.
Ryder, Henry, New York, N. Y. Pneumatic tire. No. 1,392,553; Oct. 4.
Saal, Henry G. (See Stafford, Frederick S., assignor.)
Sanberg, Carl, et al. (See Gill, George W., assignor.)
Santoro, Filippo, Holyoke, Mass. Extension-table. No. 1,392,527; Oct. 4.
Schmick, Henry J., Williamsport, Pa., assignor to Schmick Screw and Gear Company, Wilmington, Del. Method of and means for generating mechanical elements. No. 1,392,528; Oct. 4.
Schmick Screw and Gear Company. (See Schmick, Henry J., assignor.)
Schweizerische Sodafabrik. (See Cramer, Carl, assignor.)
Scintilla, Firm. (See Billon, Frédéric, assignor.)
Schussler, Francis, Wilkes-Barre, Pa. Aeroplane-guy-wire connection. No. 1,392,529; Oct. 4.
Searle, Ephraim F., Lawrence, Mass. Apparatus for facilitating the cutting of recesses in walls. No. 1,392,360; Oct. 4.
Sears, Willard T., Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Gear-cutter. No. 1,392,361; Oct. 4.
Sebestahowicz, Felix, McKeesport, Pa. Fire-escape. No. 1,392,660; Oct. 4.
Seelman, John J., Milwaukee, Wis. Withdrawing fluids from sealed containers without contamination. No. 1,392,454; Oct. 4.

Seese, Samuel R., Vanderbilt, Pa. License-certificate-display case. No. 1,392,661; Oct. 4.
Segal Metal Products Company. (See Segal, Samuel, assignor.)
Segal, Samuel, assignor to Segal Metal Products Company, Inc., New York, N. Y. Lock. No. 1,392,707; Oct. 4.
Seib, George A., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,392,362; Oct. 4.
Seibold, Raymond W., Camp Douglas, Wis. Game. No. 1,392,662; Oct. 4.
Seldomridge, Harry, Clinton, Ind. Suspending device for tools and the like. No. 1,392,530; Oct. 4.
Seneca Camera Manufacturing Company. (See Goddard, Joseph, assignor.)
Sensibar, Jacob R., Chicago, Ill. Depositing sand. No. 1,392,663; Oct. 4.
Sentinel Alarm Co. (See Butcher, James M., assignor.)
Serrell, Lemmel W., New York, N. Y. Electric fireless cooker and range. No. 1,392,802; Oct. 4.
Shaff, Ernest H., Grand Haven, Mich. Suitcase-lock. No. 1,392,531; Oct. 4.
Shannon, Edwin P., Lockland, Ohio. Clamping means for rotary members. No. 1,392,363; Oct. 4.
Sheer, Henry M., Quincy, Ill. Knockdown brooder-canopy. No. 1,392,708; Oct. 4.
Sheer, Henry M., Quincy, Ill. Heater for incubators. No. 1,392,709; Oct. 4.
Shone, Carl F., Wichita, Kans. Siding-marker. No. 1,392,710; Oct. 4.
Shore, Albert F., New York, N. Y. Spring suspension system. No. 1,392,603; Oct. 4.
Sieger, Philip C., assignor to The Butterick Publishing Company, New York, N. Y. Sewer's gage. No. 1,392,455; Oct. 4.
Simpson, Emory G., Highland Park, assignor to Fisher Body Corporation, Detroit, Mich. Windshield construction. No. 1,392,880; Oct. 4.
Simpson, John T., Newark, N. J. Reinforced-concrete building. No. 1,392,532; Oct. 4.
Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)
Sitz, Clara B., Washington, D. C. Hairpin. No. 1,392,711; Oct. 4.
Skarzynski, John, assignor of one-half to J. Smolienski, South Amboy, N. J. Trap. No. 1,392,666; Oct. 4.
Skidmore, Benjamin, Jr., Chicago, Ill. Hydraulic air-compressor and vacuum-producer. No. 1,392,854; Oct. 4.
Skidmore, Benjamin, Jr., Chicago, Ill. Hydraulic air-compressor and vacuum-producer. No. 1,392,855; Oct. 4.
Skidmore, Benjamin, Jr., Chicago, Ill. Hydraulic air-compressor and vacuum-producer. No. 1,392 856; Oct. 4.
Skidmore, Benjamin, Jr., Chicago, Ill. Hydraulic air-compressor and vacuum-producer. No. 1,392,857; Oct. 4.
Sloane Brothers. (See Sloane, Max, assignor.)
Sloane, Max, assignor to Sloane Brothers, Brooklyn, N. Y. Fastener for handbags. No. 1,392,712; Oct. 4.
Sloboda, Joseph, Charlerol, Pa. Milk-boiler. No. 1,392,664; Oct. 4.
Smith, Arthur. (See Hackett, H., Smith, and Southall.)
Smith, Charles F. (See McManamen, J. J., Smith, and Munro.)
Smith, Charles G., Cambridge, Mass. Jewelry. No. 1,392,604; Oct. 4.
Smith Fastnessring Works. (See McManamen, J. J., Smith, and Munro, assignors.)
Smith, Franklin P. (See Smith, James D., assignor.)
Smith, Frederick A., Brasted, England. Ignition device for internal-combustion engines. No. 1,392,364; Oct. 4.
Smith, James D., assignor of one-half to F. P. Smith, Chicago, Ill. Wire-bending apparatus. No. 1,392,713; Oct. 4.
Smith, James D., assignor of one-half to F. P. Smith, Chicago, Ill. Wire-inserting mechanism for wire-mesh fabricated material. No. 1,392,714; Oct. 4.
Smith, Roy D., and A. Christopherson, Mohler, Idaho. Four-wheel drive. No. 1,392,866; Oct. 4.
Smith William H., Bridgeport, Conn. Spring-wheel. No. 1,392,859; Oct. 4.
Smolienski, John. (See Skarzynski, John, assignor.)
Smyth, Charles F., assignor to Connecticut Aircraft Company, New Haven, Conn. Inflatable fabric boat and bed or cushion. No. 1,392,533; Oct. 4.
Snell, Lyle E., assignor to Cadillac Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,392,534; Oct. 4.
Snow, Arthur E., Erie, Pa., assignor to The American Laundry Machinery Company, Norwood, Ohio. Steam-generator. No. 1,392,366; Oct. 4.
Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,392,803; Oct. 4.
Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,392,804; Oct. 4.
Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,392,805; Oct. 4.
Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,392,806; Oct. 4.
Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,392,807; Oct. 4.
Société Anonyme des Ateliers et Chantiers de la Loire. (See Laupretre, Claude, assignor.)
Société de Moteurs à Gaz et d'Industrie Mechanique. (See Cottard, Jean B., assignor.)
Societe Des Moteurs Salmson (Systeme Canton-Unne). (See Postal-Vinay, Pierre J. B., assignor.)
Sommer, J. L., Manufacturing Co. (See Sommer, John L., assignor.)
Sommer, John L., Newark, N. J., assignor to J. L. Sommer Manufacturing Co. Key-ring clip. No. 1,392,715; Oct. 4.
Southall, Christopher. (See Hackett, H., Smith, and Southall.)
Spalding, A. G., & Bros. (See Pierce, George L., assignor.)
Spatter, Noah, Kansas City, Mo., and A. Wellkoff, Wilkes-Barre, Pa. Faucet with drinking attachment. No. 1,392,456; Oct. 4.
Spraggins, Mary C., Jersey City, N. J. Bag-support. No. 1,392,716; Oct. 4.
Stafford, Frederick S., assignor to H. G. Saal, Chicago, Ill. Wheel. No. 1,392,367; Oct. 4.
Stafford, Hal R., deceased, North Plainfield, N. J.; M. M. Stafford, administratrix. Invisible cab-turret. No. 1,392,457; Oct. 4.
Stafford, Mary M., administratrix. (See Stafford, Hal R.)
Standard Oil Company. (See Lewis, F. B., and Cooke, assignors.)
Standard Oil Company, (of Indiana.) (See Glair, Harry F., assignor.)
Stark, Harry S., assignor to Mittag & Volger, Incorporated, Park Ridge, N. J. Typewriter-ribbon. No. 1,392,458; Oct. 4.
Starr, Edward B., and H. E. Marsh, Lompoc, Calif. Apparatus for cutting bricks or blocks from natural deposits. No. 1,392,459; Oct. 4.
Starr, Jennie M., Montrose, S. D. Antiskid-chain. No. 1,392,881; Oct. 4.
Steen, John L., assignor to The Triple Metals Corporation, Waukegan, Ill. Attachment for washboiler. No. 1,392,460; Oct. 4.
Stevens, Leslie, Glen Ridge, N. J. Hat-shaping apparatus. No. 1,392,605; Oct. 4.
Stevenson, William D., Pittsburgh, Pa. Composite article including phenols and formaldehyde and making same. No. 1,392,535; Oct. 4.
Stoch, Jan, Uniontown, Pa. Fastener for adjustable windows. No. 1,392,606; Oct. 4.
Stoewsand, Charles F., assignor to W. Kargus, L. Cleppe, and C. F. Stoewsand, Chicago, Ill. Shaving-brush. No. 1,392,369; Oct. 4.
Stoewsand, Charles F., et al. (See Stoewsand, Charles F., assignor.)
Stoner, Charles A., Toledo, Ohio. Pulley. No. 1,392,717; Oct. 4.
Straub, Charles, Chicago, Ill. Bevel-protractor. No. 1,392,607; Oct. 4.
Strawn, Ervin E., assignor to The Omnigraph Company, Des Moines, Iowa. Printing-plate holder. No. 1,392,806; Oct. 4.
Streib, John F., Avalon, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Brake mechanism. No. 1,392,848; Oct. 4.
Strickland, Oliver W. (See Ristoul, W., Nolan, and Strickland.)
Stroud, Lamont H., Sheridan, Wyo. Station-indicator. No. 1,392,718; Oct. 4.
Stroebing, Edward H., Tonawanda, N. Y. Auxiliary seat for baby-carriages. No. 1,392,461; Oct. 4.
Sulman, Henry L., and W. B. Ballantine, London, England. Manufacture of alloys. No. 1,392,462; Oct. 4.
Summerbell, William J., Chicago, Ill. Trussed-roof structure. No. 1,392,882; Oct. 4.
Sutliff, Lewis S., Charleston, S. C. Switch. No. 1,392,665; Oct. 4.
Swaim, Patrick M., Lonoke, Ark. Elevated coasting apparatus. No. 1,392,719; Oct. 4.
Swensen, Alfred. (See Hagny, J. C., and Swensen.)
Swindale, John W. (See Lee, H. W., and Swindale.)
Sybert, William W., assignor of one-half to C. A. Cooper, Tulsa, Okla. Piston-ring. No. 1,392,536; Oct. 4.
Sykes, William W., South Richmond, Va. Safety device for throttles. No. 1,392,537; Oct. 4.
Synck, Henry, Coldwater, Ohio, and B. B. Rollman, Pittsburgh, Pa., assignors, by mesne assignments, to The New Idea Spreader Company, Coldwater, Ohio. Feeding mechanism. No. 1,392,720; Oct. 4.
Tobacco, John, Rochester, N. Y. Balloon toy. No. 1,392,861; Oct. 4.
Taggart, Thomas M., Belvedere, Calif. Gasifier for low-gravity oils. No. 1,392,463; Oct. 4.
Tagliabue, Charles J., Manufacturing Co. (See Roesch, Alfred, assignor.)
Taylor, Milan E. (See Heditler, R. S., and Taylor.)
Techno-Service Corporation. (See Gremmels, Felix, assignor.)
Thomas, Edward G., assignor to Toledo Scale Company, Toledo, Ohio. Signal for weighing-scales. No. 1,392,808; Oct. 4.
Thomas, Lester O., assignor to New England Confectionery Company, Boston, Mass. Assembling-machine. No. 1,392,853; Oct. 4.
Thompson, Carl G., Knoxville, Tenn. Grinding-mill. No. 1,392,464; Oct. 4.
Thompson, Carl G., Knoxville, Tenn. Driving mechanism. No. 1,392,465; Oct. 4.

Thompson, George K., New York, N. Y. Car-truck. No. 1,392,721; Oct. 4.
Thurston, Elmer A., Chippewa Falls, Wis. Belt-fastener. No. 1,392,722; Oct. 4.
Tice, Percival E., Chicago, Ill. Pneumatic liquid-supply-tank gage. No. 1,392,535; Oct. 4.
Till, Henry, Pittsburg, Calif. Can-opener. No. 1,392,466; Oct. 4.
Tipograph, Carl M., New York, N. Y. Sweatband. No. 1,392,539; Oct. 4.
Toledo Scale Company. (See Hem, Halvor O., assignor.)
Toledo Scale Company. (See Thomas, Edward G., assignor.)
Topp, Charles A., Lebanon, Mo. Window and door securer. No. 1,392,467; Oct. 4.
Tow, Isidore, New York, N. Y. Detachable keyboard for transposing music on pianos. No. 1,392,883; Oct. 4.
Tremolada, Guglielmo, Detroit, Mich., assignor of one-half to M. Baroni, Winnipeg, Manitoba, Canada. Reinforced spring. No. 1,392,540; Oct. 4.
Treneer, Joseph M., New York, N. Y., and C. S. Benjamin, East Orange, N. J., assignors to A. J. Doremus, West New Brighton, N. Y., and H. G. Turner, Paterson, N. J. Purification of hydrocarbons. No. 1,392,370; Oct. 4.
Triple Metals Corporation, The. (See Steen, John L., assignor.)
Turner, Douglas, assignor to The Measuregraph Company, St. Louis, Mo. Fabric-measuring and cost-computing machine. No. 1,392,725; Oct. 4.
Turner, Howard G., et al. (See Treneer, J. M., and Benjamin, assignors.)
Tuttle, Edson H., J. C. Miller, and T. C. Baldwin, Conneaut, Ohio. Steam-boiler-compound-feeder. No. 1,392,862; Oct. 4.
Tuttle, John C., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Manufacturing tires. No. 1,392,606; Oct. 4.
Underhill, Charles R., New Haven, Conn. Method and means of selection. No. 1,392,609; Oct. 4.
Union Lock Ditch Company. (See Merrick, Frank W., assignor.)
Union Switch & Signal Company, The. (See Beall, Charles E., assignor.)
United Shoe Machinery Corporation. (See Cosgrove, John W., assignor.)
United Shoe Machinery Corporation. (See Eppler, Andrew, assignor.)
United Shoe Machinery Corporation. (See Jorgensen, Bernhardt, assignor.)
United Shoe Machinery Corporation. (See Ray, Eugene J., assignor.)
United Shoe Machinery Corporation. (See Richardson, John H., assignor.)
University of Minnesota. (See Kendall, Edward C., assignor.)
V. & O. Press Company, The. (See Oswald, Herman, assignor.)
Venesia, Nestor. (See Puiggari, M., and Venesia.)
Vergniaud, Louis, assignor to Etablissements Jacob Holtzer, Paris, France. Process and apparatus for the manufacture of crucibles. No. 1,392,541; Oct. 4.
Williams, Mark A., New Castle, Pa. Hopper-car. No. 1,392,871; Oct. 4.
Vine, Jerry T., assignor of one-half to T. Conroy, Seattle, Wash. Automatic pump control. No. 1,392,372; Oct. 4.
Vorce, Albert F., Ludington, Mich. Hand-embroidery needle. No. 1,392,542; Oct. 4.
Wagner, Alice B. (See Wagner, William G., assignor.)
Wagner, William G., assignor to A. B. Wagner, Carter, S. D. Spring-tire. No. 1,392,667; Oct. 4.
Wainwright, Joseph E., Brooklyn, N. Y. Valve-lifting device. No. 1,392,373; Oct. 4.
Walker, Fred, Philadelphia, Pa. Hairpin. No. 1,392,374; Oct. 4.
Walton, Francis W. B., San Francisco, Calif. Means for mooring ships. No. 1,392,668; Oct. 4.
Ward, Bernie W., et al. (See Gill, George W., assignor.)
Waream, Charles E., Cincinnati, assignor to The American Laundry Machinery Company, Norwood, Ohio. Garment-press. No. 1,392,375; Oct. 4.
Waream, Charles E. (See Braley, C. L., and Waream.)
Warren, Clinton J., Winchester, Mass. Automobile-handling device for garages and the like. No. 1,392,610; Oct. 4.
Washburn, George P., Los Angeles, Calif. Molding apparatus for battery strap-posts. No. 1,392,884; Oct. 4.
Wasserlein, Froes Company. (See Wasserlein, Victor E., assignor.)
Wasserlein, Victor E., New York, N. Y., assignor to Wasserlein, Froes Company, Inc. Carbureter fuel control. No. 1,392,724; Oct. 4.
Waterman, Mabel, New Rochelle, N. Y. Toy animal. No. 1,392,725; Oct. 4.
Waters, Edward, Capreal, Ontario, Canada. Railway-tie. No. 1,392,376; Oct. 4.
Watkins, Henry E., Oakland, Calif., assignor to Frank A. Weeks Mfg. Co., New York, N. Y. Pencil attachment. No. 1,392,468; Oct. 4.
Watkins, Verna O., Atlanta, Ga. Educational board. No. 1,392,726; Oct. 4.
Watrous, Isaac A., Bridgeport, Conn. Electrically-operated machine for scraping irregular wooden surfaces. No. 1,392,543; Oct. 4.
Webke, Charles, New York, N. Y. Candy-pressing machine. No. 1,392,863; Oct. 4.
Weeks, Frank A., Mfg. Co. (See Watkins, Henry E., assignor.)
Weir, G. & J., Limited. (See Lang, Charles R., assignor.)
Weis, John A., Chicago, Ill. Expansible and contractible structure. No. 1,392,609; Oct. 4.
Welikoff, Atanas. (See Spatter N., and Welikoff.)
Welsh, Clyde L., Pittsburgh, Pa. Mechanical toy. No. 1,392,727; Oct. 4.
Wertheim, Max, Pietermaritsburg, Natal, South Africa. Sugar-cane cutter. No. 1,392,377; Oct. 4.
Westman, Alfred D. (See Westman, William H. and A. D., and Richards.)
Westman, William H. and A. D., and J. N. Richards, Chatham, Ontario, Canada. Oil-cock-wrench. No. 1,392,728; Oct. 4.
Whitright, Samuel L., New Haven, Conn. Fuel-vaporising heater. No. 1,392,729; Oct. 4.
Wiet, Eugene, and F. Chittenden, assignors to National Safety Appliance Company, San Francisco, Calif. Electropneumatic valve. No. 1,392,544; Oct. 4.
Wilz, Garrett P. (See Cunningham, Auren A., assignor.)
Wilhelm, John H., New York, N. Y. Safety-holder for milk-bottles and the like. No. 1,392,809; Oct. 4.
Willard, Louie E., Chula, Ark. Controlling mechanism. No. 1,392,378; Oct. 4.
Williams, Edward R., Sharpsburg, Pa. Dispensing device. No. 1,392,370; Oct. 4.
Williams, Rolland G., Bridgeport, Conn. Pole-mounting. No. 1,392,730; Oct. 4.
Williams, Samuel O., Northumberland, England. Road-wheel for vehicles. No. 1,392,545; Oct. 4.
Williams, William E., Chicago, Ill. Flanged-disk pressed-steel wheel. No. 1,392,381; Oct. 4.
Williams, William E., Chicago, Ill. Pressed steel wheel. No. 1,392,380; Oct. 4.
Williamson, Charles S., Chicago, Ill. Apparatus for handling coal, ore, and the like. No. 1,392,382; Oct. 4.
Williamson, Colonel J., assignor to Williamson Machine Company, San Francisco, Calif. Apparatus for cleaning eggs. No. 1,392,546; Oct. 4.
Williamson Machine Company. (See Williamson, Colonel J., assignor.)
Willis, Prior F., St. Louis, Mo. Valve. No. 1,392,547; Oct. 4.
Willis, Williiam, Pawtucket, R. I. Automobile-signal. No. 1,392,731; Oct. 4.
Wills, Walter B., Baltimore, Md. Strainer. No. 1,392,383; Oct. 4.
Wilson, Harry D. (See Hardy, J. N., Wilson, and Long.)
Wilson, Stephen G., Philadelphia, Pa. Broom. No. 1,392,384; Oct. 4.
Winter, Lester A. (See Norman, Orville P., assignor.)
Wise, Charles A., and E. B. Wise, Lawrence, Kans. Tractor-hitch. No. 1,392,864; Oct. 4.
Wise, Elmer B. (See Wise, Charles A. and E. B.)
Wishart, John O. (See Wishart, William and J. O.)
Wishart, William and J. O., assignors to Clinton Refrigerating Company, Clinton, Iowa. Process and apparatus for making ice. No. 1,392,885; Oct. 4.
Witt, Arthur G., Hamilton, Ontario, Canada. Shock-absorber. No. 1,392,886; Oct. 4.
Wolf, Bernhard M. (See Fischer, H. J., and Wolf.)
Wolff Manufacturing Company. (See Gavin, John H., assignor.)
Wones, Raymond O., Maplewood, Ohio. Pump. No. 1,392,670; Oct. 4.
Wood, A. J, Grand Rapids, assignor to Bennett Injector Company, Muskegon, Mich. Truck. No. 1,392,387; Oct. 4.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Insert-printing press. No. 1,392,469; Oct. 4.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Insert feeding and cutting device. No. 1,392,470; Oct. 4.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Machine for delivering magazines and the like. No. 1,392,471; Oct. 4.
Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
Woodman, George A., Chicago, Ill. Railway-car end. No. 1,392,472; Oct. 4.
Wrigley, Wm. Jr., Company. (See Johnson, Charles W., assignor.)
Wuensch, Joseph W., St. Paul, Minn. Tag-holder. No. 1,392,548; Oct. 4.
Zarmstorf, Henry, Flint, Mich. Grain-drill attachment. No. 1,392,732; Oct. 4.
Zifferer, Lothar R., Lancaster, Pa. Adjustable pipe-hanger. No. 1,392,810; Oct. 4.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Adelmann, Hans, assignor to Ham Boiler Corp., New York, N. Y. Meat-loaf-cooker receptacle. No. 59,171; Oct. 4.
Adelson-Chambers Jewelry Company. (See Chambers, Jess L., assignor.)
American Fabrics Company, The. (See Monk, Thomas, assignor.)
American Fabrics Company, The. (See Page, Samuel H., assignor.)
American Fabrics Company, The. (See Philips, Hans A., assignor.)
Anderson, Lee, Fostoria, Ohio. Grave-cover. No. 59,172; Oct. 4.
Atwood, Seth B., Rockford, Ill. Door-bumper. No. 59,173; Oct. 4.
Barth, L., & Son. (See Engelhardt, Martin M., assignor.)
Battin, Robert G. (See Jones, Lee B. and E. W., and Battin.)
Belden, Russell D., assignor to Madison Tire & Rubber Company, Inc., Buffalo, N. Y. Tire-casing. No. 59,174; Oct. 4.
Benson, Flora, Angleton, Tex. Paper doll. Nos. 59,175–6; Oct. 4.
Binkovitz, M., & Son. (See Sonntag, Eugene, Jr., assignor.)
Biva, Lucien, White Plains, assignor to Titus Blatter & Company, New York, N. Y. Textile fabric or similar article. Nos. 59,177–9; Oct. 4.
Blue Jacket Tailoring Company, The. (See Lion, Edwin E., assignor.)
Borgfeldt, George, & Co. (See Vidulich, Matthew G., assignor.)
Boston Burial Case Co. (See Hollins, Frederick E., assignor.)
Breitenstein, Arthur L., Akron, assignor to The Giant Tire & Rubber Company, Findlay, Ohio. Tire-tread. No. 59,180; Oct. 4.
Buchenau, Lloyd W., Stockton, Calif. Gum and mint case. No. 59,181; Oct. 4.
Bujarsky, Charles G., Anderson, Ind. Novelty mitten. No. 59,182; Oct. 4.
Bunting, James H., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 59,183–5; Oct. 4.
Carder, Frederic, assignor to Corning Glass Works, Corning, N. Y. Flower-holder. No. 59,186; Oct. 4.
Casey, John P., Jeannette, Pa. Bottle-stopper. No. 59,187; Oct. 4.
Central Council, Order of the Builders for Boys. (See Millard, Arthur M., assignor.)
Chambers, Jess L., Kansas City, Mo., assignor to Adelson-Chambers Jewelry Company. Finger-ring. No. 59,188; Oct. 4.
Christen, Victor H., Toledo, Ohio. Glass-wiper. No. 59,189; Oct. 4.
Church, Howard A., Elkhart, Ind. Aluminum teakettle. Nos. 59,190–1; Oct. 4.
Church, Howard A., Elkhart, Ind. Aluminum double boiler. No. 59,192; Oct. 4.
Clark, Edwin R., and L. E. Neuer, Joliet, Ill. Doll's costume. No. 59,193; Oct. 4.
Collins, James J., Springfield, Mass. Tag. No. 59,194; Oct. 4.
Cohn, Victor H., New York, N. Y. Ring. Nos. 59,195–6; Oct. 4.
Corning Glass Works. (See Carder, Frederic, assignor.)
Crowell, Frank S., assignor to The Edward N. Riddle Co., Toledo, Ohio. Lamp. No. 59,197; Oct. 4.
Dalits, Harry, assignor to J. C. Hipp, Cleveland, Ohio. Steamer. No. 59,198; Oct. 4.
Dalits, Harry, assignor to J. C. Hipp, Cleveland, Ohio. Gas-heater. No. 59,199; Oct. 4.
Davis, Edward and W. E. Holland, assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Battery-case. No. 59,200; Oct. 4.
Delta Electric Company. (See Stephenson, Walter B., assignor.)
Doyle, John, New York, N. Y. Shade, reflector, or similar article for a lighting-fixture. No. 59,201; Oct. 4.
Draycott, Walter, assignor to Richmond Lace Works, Alton, R. I. Lace. Nos. 59,202–3; Oct. 4.
Dunkelberger, Milton S., Dayton, Ohio. Combined fishing pole and reel. No. 59,204; Oct. 4.
Dunlop Rubber Company, The. (See Paull, Wallace H., assignor.)
Eidlitz, Charles L., Co. (See Hartmann, Povl, assignor.)
Eles Jewelry Co. (See Lapidus, Isidore H., assignor.)
Engelhardt, Martin M., New York, N. Y., assignor to L. Barth & Sons. Plate and similar article. No. 59,205; Oct. 4.
Fangnan, George R., Los Angeles, Calif. Button. No. 59,206; Oct. 4.
Fortune, Marjorie, P. D., Los Angeles, Calif. Statuette. No. 59,207; Oct. 4.
Frati, Alfred, assignor to Titus Blatter & Company, New York, N. Y. Textile fabric or article of similar nature. Nos. 59,208–9; Oct. 4.
Fynn, Penelope, Denver, Colo. Doll. No. 59,210; Oct. 4.
Giant Tire & Rubber Company, The. (See Breitenstein, Arthur L., assignor.)
Goldstein, Morris L., Providence, R. I. Charm or pendant. No. 59,211; Oct. 4.
Goodrich, B. F., Company, The. (See Pierson, Robert M., assignor.)
Graff, George, New York, N. Y., and W. A. Kennedy, Lenox, N. J., assignors to Graff, Washbourne & Dunn. Electric fan and heating device. No. 59,214; Oct. 4.
Graff, Washbourne & Dunn. (See Graff, G., and Kennedy, assignors.)
Gross, Angus R., Baltimore, Md. Cowl-light for automobiles, &c. Nos. 59,212–13; Oct. 4.
Ham Boiler Corporation. (See Adelmann, Hans, assignor.)
Hamill, Fred C., Los Angeles, Calif. Brownie doll. No. 59,215; Oct. 4.
Hartmann, Povl, Brooklyn, assignor to C. L. Eidlitz Co., New York, N. Y. Electrical receptacle for ceiling-boxes. No. 59,216; Oct. 4.
Haviland, George, Limoges, France. Dish or similar article. No. 59,217; Oct. 4.
Haviland, George, Limoges, France. Bowl or similar article. No. 59,218; Oct. 4.
Haviland, George, Limoges, France. Cup or similar article. No. 59,219; Oct. 4.
Haynes, William J., Jr., Kansas City, Mo. Furnace. No. 59,220; Oct. 4.
Haselton, Carl J., Worcester, Mass. Collet for a hose-supporter. No. 59,221; Oct. 4.
Headley, Frederick H., Northfield, England. Metallic chair, stool, or similar article. Nos. 59,222–3; Oct. 4.
Hilderbrand, Louis P. (See Van Dohlan, Richard, assignor.)
Hipp, J. C. (See Dalits, Harry, assignor.)
Hirsch, Louis H., New York, N. Y. Flower-vase. No. 59,224; Oct. 4.
Holland, Walter E. (See Davis, E., and Holland.)
Hollins, Frederick E., Winchester, assignor to Boston Burial Case Co., West Somerville, Mass. Burial-casket. No. 59,225; Oct. 4.
Holt, George, assignor to North American Lace Company, Philadelphia, Pa. Lace. No. 59,226; Oct. 4.
Holzer, Eugene, assignor to Milwaukee Lace Paper Company, Milwaukee, Wis. Doily. No. 59,227; Oct. 4.
Howe Rubber Corporation. (See Tenney, John, Jr., assignor.)
Jones, Earl W. (See Jones, Lee B. and E. W., and Battin.)
Jones, Lee B. and E. W., and R. G. Battin, assignors to Sunbeam Electric Manufacturing Company, Evansville, Ind. Power plant. No. 59,228; Oct. 4.
Kehm, August, Chicago, Ill. Refrigerating-radiator. No. 59,229; Oct. 4.
Kellogg, John H., Battle Creek, Mich. Dental implement. No. 59,230; Oct. 4.
Kelly, Jerry H., Waupun, Wis., assignor to Paramount Hosiery Form Drying Co., Chicago, Ill. Hosiery drying and shaping structure. No. 59,231; Oct. 4.
Kelly-Springfield Tire Company. (See Waters, Reginald H., assignor.)
Kennedy, William A. (See Graff, G., and Kennedy.)
Kincaid, Floy D., Long Creek, Oreg. Milk-strainer. No. 59,232; Oct. 4.
Kraus, John, Pittsburgh, Pa. Precious, semiprecious or synthetic stone, or an imitation thereof. Nos. 59,233–5; Oct. 4.
La Pierre, Frank H., East Orange, N. J. Back of a mirror, brush, or similar article. No. 59,237; Oct. 4.
La Pierre, Frank H., East Orange, N. J. Candlestick. No. 59,238; Oct. 4.
Langston, James F. (See Woods, W. R., and Langston.)
Lapidus, Isidore H., assignor to Eles Jewelry Co., New York, N. Y. Jewelry—namely, a finger-ring or article of similar nature. No. 59,236; Oct. 4.
Leuckert, William, Astoria, N. Y. Automobile parking-light. No. 59,239; Oct. 4.
Lieberfreund Brothers. (See Lieberfreund, Nathan, assignor.)
Lieberfreund, Nathan, Passaic, N. J., assignor to Lieberfreund Brothers, New York, N. Y. Charm. No. 59,240; Oct. 4.
Lion, Edwin E., assignor to The Blue Jacket Tailoring Company, New York, N. Y. Calendar-mount. No. 59,241; Oct. 4.
Macdonald, Margaret, Davenport, Iowa. Doll. No. 59,242; Oct. 4.
Madison Tire & Rubber Company. (See Belden, Russell D., assignor.)
Mayer, Joshua W., New York, N. Y. Ring or similar article. Nos. 59,246–52; Oct. 4.
McAvoy, John J., Seattle, Wash. Watch-fob. No. 59,244; Oct. 4.
McCormick, Clarence E., Youngstown, Ohio. Tread for automobile-casings. No. 59,245; Oct. 4.
McEnery, Charles T., San Francisco, Calif. Doll. No. 59,246. Oct. 4.

McGrevy, Jeremiah, assignor to Solidarity Watch Case Company, Brooklyn, N. Y. Watchcase-bow. No. 59,247; Oct. 4.
McKee Glass Company. (See Sailer, George D., assignor.)
McNaughton, John, New York, N. Y. Vegetable scraper and parer. No. 59,248; Oct. 4.
MacLaran, Hector P., Chicago, Ill. Razor-blade. No. 59,243; Oct. 4.
Merriman, Frederic, Mill Valley, Calif. Advertising device. No. 59,253; Oct. 4.
Millard, Arthur M., assignor to Central Council, Order of the Builders for Boys, Chicago, Ill. Badge, pin, emblem, or similar article. No. 59,254; Oct. 4.
Milwaukee Lace Paper Company. (See Holzer, Eugene, assignor.)
Miters, Joseph, Plainfield, N. J. Casing for gas-heaters. No. 59,255; Oct. 4.
Moffat, Frederick W., Weston, Ontario, Canada. Refractory floor member for electric furnaces. No. 59,256; Oct. 4.
Moffat, Frederick W., Weston, Ontario, Canada. Refractory roof member for electric furnaces. No. 59,257; Oct. 4.
Monk, Thomas, Bridgeport, Conn., assignor to The American Fabrics Company. Lace. Nos. 59,258–60; Oct. 4.
Muller, Max, New York, N. Y. Hair fringe. No. 59,261; Oct. 4.
Neuer, Leo B. (See Clark, E. R., and Neuer.)
North American Lace Company. (See Holt, George, assignor.)
Page, Samuel H., Stratford, Conn. Lace. Nos. 59,266–7; Oct. 4.
Page, Samuel H., Stratford, Conn., assignor to The American Fabrics Company. Lace. Nos. 59,262–5; Oct. 4.
Paramount Hosiery Form Drying Co. (See Kelly, Jerry H., assignor.)
Paull, Wallace H., Birmingham, assignor to The Dunlop Rubber Company, Limited, London, England. Tire-tread. No. 59,268; Oct. 4.
Pennig, Bernard T., St. Paul, Minn. Mail-box. No. 59,269; Oct. 4.
Peterke, Edward C., Fairchild, Iowa. Portable case having compartments for stationery supplies. No. 59,270; Oct. 4.
Philadelphia Storage Battery Company. (See Davis, E., and Holland, assignor.)
Philips, Hans A., Stratford, Conn., assignor to The American Fabrics Company. Lace. Nos. 59,271–2; Oct. 4.
Pierson, Robert M., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Pneumatic-tire tread. No. 59,273; Oct. 4.
Plym, Francis J., Niles, Mich. Desk set. Nos. 59,274–9; Oct. 4.
Polanchych, Alexander P., Girardville, Pa. Comb and brush holder. No. 59,280; Oct. 4.
Radford, George, Oakland Beach, assignor to Richmond Lace Works, Alton, R. I. Lace. No. 59,281; Oct. 4.
Read, Dorothy, Fort Smith, Ark. Doll. No. 59,282; Oct. 4.
Reckards, Robert P., Great Falls, Mont. Bank-check. No. 59,283; Oct. 4.
Reed, Burton I., Concord, N. H. Badge or button. No. 59,284; Oct. 4.
Reinsberg, Adolph. (See Wiley, W. F., and Reinsburg.)
Richardson, Thomas D., Philadelphia, Pa. Candy tablet. No. 59,285; Oct. 4.
Richmond Lace Works. (See Draycott, Walter, assignor.)
Richmond Lace Works. (See Radford, George, assignor.)
Riddle, Edward N., Co., The. (See Crowell, Frank S., assignor.)
Ruelland, Albertine, New York, N. Y. Electric iron. No. 59,285; Oct. 4.
Sailer, George D., assignor to McKee Glass Company, Jeannette, Pa. Transparent glass dish. No. 59,287; Oct. 4.
Samuels, Sidney S., Bayside, N. Y. Child's one-piece fur garment. No. 59,288; Oct. 4.
Schoen, Michael, New York, N. Y. Doll. No. 59,289; Oct. 4.
Scott, George B., assignor to Henry Tetlow Co., Philadelphia, Pa. Box or container. No. 59,290; Oct. 4.
Simmons Company. (See Stuart, Charles A., assignor.)
Smith, Arthur J., Tappan, N. Y. Hairpin. No. 59,291; Oct. 4.
Solidarity Watch Case Company. (See McGrevy, Jeremiah, assignor.)
Sonntag, Eugene, Jr., Astoria, assignor to M. Binkovitz & Son, New York, N. Y. Mattress-ticking. Nos. 59,292–6; Oct. 4.
Steel, Herman D., Philadelphia, Pa., assignor to Swiss Jewel Co., S. A. Locarno, Switzerland. Precious, semiprecious, or synthetic jewel. Nos. 59,297–9; Oct. 4.
Steffen, Walter L., Kenton, Ohio. Ring. No. 59,300; Oct. 4.
Stephenson, Walter B., assignor to Delta Electric Company, Marion, Ind. Flashlight. No. 59,301; Oct. 4.
Stuart, Charles A., assignor to Simmons Company, Kenosha, Wis. Medallion. No. 59,302; Oct. 4.
Sunbeam Electric Manufacturing Company. (See Jones, Lee B. and E. W., and Battin, assignors.)
Susquehanna Silk Mills. (See Bunting, James H., assignor.)
Swientek, Anton, Chicago, Ill. Picture, mirror, or like frame. No. 59,303; Oct. 4.
Swiss Jewel Co., S. A. (See Steel, Herman D., assignor.)
Tenney, John, Jr., Plainfield, N. J., assignor to Howe Rubber Corporation. Tire. Nos. 59,304–5; Oct. 4.
Tetlow, Henry, Co. (See Scott, George B., assignor.)
Thibault, Gustave, Whitehall, N. Y. Rosary. No. 59,306; Oct. 4.
Titus Blatter & Company. (See Biva, Lucien, assignor.)
Titus Blatter & Company. (See Frati, Alfred, assignor.)
Van Dohlan, Richard, Albuquerque, N. Mex., assignor of one-half to L. P. Hilderbrand, Cooley, Ariz. Watch-chain. No. 59,307; Oct. 4.
Viall, Job, Schaghticoke, N. Y. Ice-creeping plate. No. 59,308; Oct. 4.
Vidulich, Matthew G., Jersey City, N. J., assignor to George Borgfeldt & Co., New York, N. Y. Bottle. No. 59,309; Oct. 4.
Waters, Reginald H., Cumberland, Md., assignor to Kelly-Springfield Tire Company, New York, N. Y. Vehicle-tire. No. 59,310; Oct. 4.
Wegenaar, Louis A., Brooklyn, N. Y. Receptacle for toilet powder and other commodities. No. 59,311; Oct. 4.
Wiley, Wilson F., and Adolph Reinsberg, Salt Lake City, Utah. Tire-tread. No. 59,312; Oct. 4.
Wilson, William G., West Brighton, N. Y. Pastry-lifter. No. 59,313; Oct. 4.
Winsen, Jose, Detroit, Mich. Finger-ring. No. 59,314; Oct. 4.
Woods, Wilson R., Los Angeles, and J. F. Langston, Lancaster, Calif. Frame for a meat-cutting machine. No. 59,315; Oct. 4.
Zoldo, Frank, New York, N. Y. Jewelry—namely, a finger-ring or article of similar nature. No. 59,316; Oct. 4.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Amboy Products Co., Inc., Chicago, Ill. Machine-oil. No. 147,068; Oct. 4.
American Asphalt Roof Corporation, Kansas City, Mo. Ready-mixed paints. No. 147,069; Oct. 4.
American Automobile Accessories Company, The, Cincinnati, Ohio. Chemical preparation to increase the efficiency and power of gasolene. No. 147,070; Oct. 4.
American Blind Stitch Machine Co., New York, N. Y. Certain sewing-machines. No. 147,195; Oct. 4.
American Enameled Products Co., Chicago, Ill. Certain articles of porcelain-enamel ware. No. 147,194; Oct. 4.
American Wire Fabrics Company, Mount Wolf, Pa., and Chicago, Ill. Screen wire-cloth. No. 147,196; Oct. 4.
Ansted & Burt Co., Springfield, Ohio. Wheat-flour and cornmeal. No. 147,071; Oct. 4.
Bannister & Pollard Co., Newark, N. J. Cutlery, machines, and tools. No. 147,197; Oct. 4.
Barclay & Barclay, Live Oak, Fla. Disinfectants and deodorizers. No. 147,198; Oct. 4.
Best, C. L., Tractor Co., San Leandro, Calif. Tractors. No. 147,199; Oct. 4.
Bethlehem Steel Company, Bethlehem, Pa. Tool-steel and armor-plate. No. 147,200; Oct. 4.
Binney & Smith Company, New York, N. Y. Gas-black and carbon-black in bags. No. 147,072; Oct. 4.
Binns Patent Band Co., Inc., Camden, N. J., and Philadelphia, Pa. Braided tubular textile mats and rugs. No. 147,073; Oct. 4.
Boyst, Charles H., Greensboro, N. C. Candy. No. 147,201; Oct. 4.
Brittain, John Hart, Inc., New York, N. Y. Hair-tonic for treatment of diseases of the hair and scalp. No. 147,074; Oct. 4.
Bruns, Benjamin J., Cincinnati, Ohio. Certain medicinal tonic. No. 147,075; Oct. 4.
Buralmo Company, The, Belmont, Mass. Salves used in the treatment of burns, scalds, bruises. No. 147,076; Oct. 4.
Burton Bros. & Co., New York, N. Y. Cotton piece goods. No. 147,077; Oct. 4.
C. B. C. Film Sales Corporation, New York, N. Y. Motion-picture films. No. 147,203; Oct. 4.
Camp, Beauford R., San Francisco, Calif. Candy. No. 147,202; Oct. 4.
Carson Pirie Scott & Company, Chicago, Ill. Silk piece goods. No. 147,078; Oct. 4.
Caulk, L. D., Company, The, Milford, Del. Preparation for treatment of pyorrhea. No. 147,079; Oct. 4.
Ceda-Oda Company, The, Franklin Park, Mass. Polish for furniture, floors, pianos, &c. No. 147,080; Oct. 4.
Chapman & Smith Company, Chicago, Ill. Shortening compound. No. 147,081; Oct. 4.
Chin-Chin Chemical Company, Chicago, Ill. Liquid furniture and automobile polish. No. 147,082; Oct. 4.
Clements, Fred W., Rochester, N. Y. Antiseptic, germicidal, and anodyne oil. No. 147,083; Oct. 4.
Clements, Fred W., Rochester, N. Y. Tooth-powder. No. 147,084; Oct. 4.
Clover Products Corporation, Los Angeles, Calif. Perfumes and incense in solid form. No. 147,085; Oct. 4.
Cohen & Ehrenberg, New York, N. Y. Woolen piece goods. No. 147,204; Oct. 4.
Comfort Powder Co., Inc., The. (See Comfort Powder Company, The, assignor.)
Comfort Powder Company, The, Hartford, Conn. Powder for the toilet, nursery, and similar purposes. No. 19,977. Renewed Aug. 4, 1921, to The Comfort Powder Co., Inc.
Converse Treatment Co., The, Columbus, Ohio. Medicine intended for use in epilepsy and other nervous disorders. No. 147,086; Oct. 4.
Coty, Francois J. de S., Suresnes, France. Certain toilet preparations. No. 147,206; Oct. 4.
Dalton Manufacturing Corporation, New York, N. Y. Lathes and lathe parts. No. 147,205; Oct. 4.
Danielson, Charles, Minneapolis, Minn. Ironing-boards. No. 147,196; Oct. 4.
Davies, Rose & Company. (See McNulty, John J., M. D., assignor.)
Domestic Sewing Machine Co., Inc., Buffalo, N. Y. Sewing-machines. No. 147,207; Oct. 4.
Donner, Joseph, Chicago, Ill. Depilatories. No. 147,208; Oct. 4.
Drake, Murray C., Binghamton, N. Y. Dental cream. No. 147,087; Oct. 4.
Dunne-McCord Company Inc., Syracuse, N. Y., and Evansville, Ind. Compound of malt, hops, and sugar for making a beverage. No. 147,088; Oct. 4.
Duplan Silk Corporation, New York, N. Y. Broad-silk piece goods. No. 147,089; Oct. 4.
Eastman Chemical Co., Cincinnati, Ohio. Medical compound in salve form. No. 147,090; Oct. 4.
Einstein, J., Inc., New York, N. Y. Cotton, duck, and canvas piece goods. No. 147,091; Oct. 4.
Eldridge, Geo. E., Co., Detroit, Mich. Eggs and butter. No. 147,209; Oct. 4.
Emo Co., The, Portland, Me. Cream for use for sunburn, tan, burns, &c. No. 147,210; Oct. 4.
Engelberg Huller Company, The, Syracuse, N. Y. Attrition-mills. No. 147,211; Oct. 4.
Erb Drug Co., Inc., The, Lynchburg, Va. General tonic. No. 147,092; Oct. 4.
Estasi Perfumery Co., Inc., New York, N. Y. Certain toilet preparations. No. 147,093; Oct. 4.
F. & F. Poultry Remedy Co., Humeston, Iowa. Certain poultry remedies. No. 147,094; Oct. 4.
Fields, Sallie B., Hampton, Va. Hair-grower, vegetable shampoo, and tetter-balm. No. 147,095; Oct. 4.
Flom, Carl J., Baltimore, Md. Nerve and blood tonic. No. 147,097; Oct. 4.
Folke, Howard, Los Angeles, Calif. Hair-grower. No. 147,096; Oct. 4.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. No. 147,098; Oct. 4.
Francisco Auto Heater Co., Columbus, Ohio. Certain vehicle-heaters. No. 147,212; Oct. 4.
Gandolfo, Giuseppe, New York, N. Y. Bread. No. 147,099; Oct. 4.
Gast, Margaret, New York, N. Y. Liniments for rheumatic affections and other body-pains. No. 147,100; Oct. 4.
Globe Grocery Stores, Incorporated, New York and Brooklyn, N. Y. Baking-powder. No. 147,101; Oct. 4.
Golding, John, Atlanta, Ga. Liquid wax polish. No. 147,102; Oct. 4.
Goldsmith Clothing Company, St. Louis, Mo. Men's and boys' suits. No. 147,213; Oct. 4.
Goodin, M., Eubank, Ky. Ointment for the treatment of piles. No. 147,214; Oct. 4.
Gordon Hollow Blast Grate Company, The, Greenville, Mich. Two-saw trimmer. No. 147,215; Oct. 4.
Gordon Hollow Blast Grate Company, The, Greenville, Mich. Edgers. No. 147,216; Oct. 4.
Gorham Chocolate Co., Inc., Brooklyn, N. Y. Candies. No. 147,217; Oct. 4.
Grady, M. J., Company, Incorporated, The, New York, N. Y. Twine and cordage. No. 147,103; Oct. 4.
Grand Lake Company, Inc., The, New York, N. Y. Fiber cord, reed, and stakes. Nos. 147,104–5; Oct. 4.
Great Atlantic and Pacific Tea Company, Jersey City, N. J. Tea. No. 147,218; Oct. 4.
Greenfield, Ella M., Erie, Pa. Liquid medicinal preparation for use in inhalers. No. 147,106; Oct. 4.
Greiner, Samuel, New York, N. Y. Certain perfumery products. No. 147,107; Oct. 4.
Gross, George V., & Company, New York, N. Y. Perfume-oil compounded and blended. No. 147,108; Oct. 4.
Haas, Allen L., Racine, Wis. Certain liniment and medicinal preparation. No. 147,109; Oct. 4.
Hall & Ruckel, New York, N. Y. Ointment. No. 147,110; Oct. 4.
Harris, Fay B., Elizabeth, N. J. Shoes of all leather and sport-shoes of leather and fiber construction for men, women, and children. No. 147,219; Oct. 4.
Heller, B., and Company, Chicago, Ill. Baking-powder. No. 147,220; Oct. 4.
Hemp & Co. (Corp.), St. Louis, Mo. Stovepipes and stovepipe-elbows. No. 147,221; Oct. 4.
Hind & Harrison Plush Co., The, New York and Clark Mills, N. Y. Pile-fabric piece goods. No. 147,111; Oct. 4.
Holland Mfg. Co., New York, N. Y. Sewing-thread for hand, machine, and embroidery work. No. 147,222; Oct. 4.
Houbigant, Inc., New York, N. Y. Certain toilet preparations. No. 147,112; Oct. 4.
Hugg-Tite Patch Co., Wellston, Ohio. Sheet-rubber patches. No. 147,223; Oct. 4.
Imperial Candy Company, Seattle, Wash. Candy. No. 147,113; Oct. 4.
Imperial Dyewood Corporation, Lynchburg, Va., and New York, N. Y. Certain dyewood and tanning extracts. No. 147,114; Oct. 4.
International Rock Plaster Company, Jersey City, N. J., and Columbus, Ohio. Wall-plaster. No. 19,402; renewed Apr. 28, 1921; Rock Plaster Corporation of New York.
Interstate Drug Company, New York, N. Y. Tonic of cod-liver extract, malt, wild cherry, and hypophosphites. No. 147,115; Oct. 4.
Kaffir Chemical Laboratories, Omaha, Nebr. Certain medicinal preparation, tooth-paste, and mouth-wash. No. 147,116; Oct. 4.
Karnes, Charles F., Tulsa, Okla. Salve for treatment of piles, blood-poison, flesh-cuts, and old sores. No. 147,117; Oct. 4.
Karp, Joseph H., New York, N. Y. Certain toilet preparations. No. 147,118; Oct. 4.
Kehoe Preserving Company, Terre Haute and Clay City, Ind. Pickled sweet peppers, chopped pimentos, tomato jam, &c. No. 147,119; Oct. 4.

Kelley Island Lime & Transport Company, Cleveland, Ohio. Hydrated lime. No. 147,224; Oct. 4.
Kelsall & Kemp Limited, The Butts, Rochdale, England. Certain flannel shirtings and similar cloths and stuffs in the piece. No. 147,120; Oct. 4.
Kit-Chin-Kit Corporation. (See Lickert, John H., assignor.)
Kline, Harold J., San Francisco, Calif. Shampoos and disinfectants. No. 147,121; Oct. 4.
Kohnstamm, H., & Co., New York, N. Y. Coal-tar colors. No. 147,122; Oct. 4.
Kohnstamm, H., & Co., New York, N. Y. Coal-tar dyes. No. 147,123; Oct. 4.
La France Laboratories, Inc., New York, N. Y. Liquid shampoo. No. 147,124; Oct. 4.
Landers, Frary & Clark, New Britain, Conn. Meat-juice presses and food-choppers. No. 147,225; Oct. 4.
Landsman, Ernestine, New York, N. Y. Liniment. No. 20,650; renewed Jan. 26, 1922.
Lichtentag, Moise, New York, N. Y. Shaving-cream in the form of soap paste. No. 147,228; Oct. 4.
Lickert, John H., assignor to Kit-Chin-Kit Corporation, Evanston, Ill. Knives, forks, spatulas, and carver-steels. No. 147,229; Oct. 4.
Littlefield & Steere Co., Knoxville, Tenn. Chocolates and candies. No. 147,230; Oct. 4.
Ludlum Steel Company, Watervliet, N. Y. Certain steels and alloys used for certain elements. No. 147,226; Oct. 4.
Ludlum Steel Company, Watervliet, N. Y. Non-corrosive steel. No. 147,227; Oct. 4.
McKee Glass Company, Jeannette, Pa. Headlight-lenses. No. 147,231; Oct. 4.
McNulty, John J., M. D., assignor to Davies, Rose & Company, Limited, Boston, Mass. Medicinal preparation. No. 147,232; Oct. 4.
Macy, R. H., & Co., Inc., New York, N. Y. Hats and caps. No. 147,233; Oct. 4.
Mangano Manufacturing Company, Rahway, N. J. Dry colors. No. 147,125; Oct. 4.
Marble Arms & Mfg. Company, Gladstone, Mich. Hunting and fish knives, safety pocket and camp axes. No. 147,234; Oct. 4.
Marshall Field & Company, Chicago, Ill. Piece goods—namely, muslin. No. 147,126; Oct. 4.
Marshall Field & Company, Chicago, Ill. Bedspreads. No. 147,127; Oct. 4.
May Department Stores Company, The, St. Louis, Mo. Hair-nets. No. 147,128; Oct. 4.
Mase, W. H., Company, Peru, Ill. Nails. No. 147,235; Oct. 4.
Mentholatum Company, The, Wichita, Kans., and Buffalo, N. Y. Certain salve. No. 147,129; Oct. 4.
Meyers, J., Stationery & Printing Co. Inc., New York, N. Y. Legal, letter, and writing paper. No. 147,236; Oct. 4.
Miller, Charles H., Dayton, Ohio. Stomach-salts. No. 147,130; Oct. 4.
Miller, Hyman, Boston, Mass. Foot-powder. No. 147,131; Oct. 4.
Munter, Charles, New York, N. Y. Tooth-paste. No. 147,132; Oct. 4.
Murchey Machine & Tool Company, Detroit, Mich. Collapsible, self-opening taps and dies, pipe threading and cutting machines, boring-bars. No. 147,237; Oct. 4.
Murphy-Gorman Company, Danbury, Conn. Soft, stiff, and velour hats. No. 147,238; Oct. 4.
Myers, F. E., & Bro., Ashland, Ohio. Power-pumps, working heads, pump-jacks. No. 147,239; Oct. 4.
Nashville Pure Milk Company, Nashville, Tenn. Butter. No. 147,240; Oct. 4.
National Aniline & Chemical Company, Incorporated, New York, N. Y. Dyestuffs, certified food colors, and intermediates. Nos. 147,133–6; Oct. 4.
Needham Products Company, The, Cleveland, Ohio. Medicine. No. 147,137; Oct. 4.
Nekrits, Louis, Brooklyn, N. Y. Varnishes. No. 147,138; Oct. 4.
Nestlé's Food Company, Inc., New York, N. Y. Condensed milk. No. 147,140; Oct. 4.
Nestlé's Food Company, Inc., New York, N. Y. Evaporated milk. No. 147,139; Oct. 4.
Neuss, Hesslein & Co., Inc., New York, N. Y. Woven cotton piece goods—namely, colored drills. No. 147,141; Oct. 4.
New England Brewing Company, Jersey City, N. J., and Boston, Mass. Concentrated material of malt and hops. No. 147,142; Oct. 4.
New York Quebracho Extract Company, New York, N. Y. Tanning extracts. No. 147,143; Oct. 4.
Norwalk Tire & Rubber Company, Norwalk, Conn. Rubber vehicle-tires. No. 147,241; Oct. 4.
Oliver Oil-Gas Burner & Machine Co., St. Louis, Mo. Oil and gas burners. No. 147,242; Oct. 4.
Orlando Chemical Co., The, Orlando, Fla. Water-color paints. No. 147,144; Oct. 4.
Overton, Anthony, Chicago, Ill. Certain toilet preparations. No. 147,145; Oct. 4.
Penn Worsted Company, Philadelphia, Pa. Hand-knitting yarns. No. 147,243; Oct. 4.
Percolin Company of America, The, Chicago, Ill. Certain chemical compound. No. 147,146; Oct. 4.
Plymouth Cordage Company, Plymouth, Mass. Binder-twine. Nos. 147,147–8; Oct. 4.
Proto Chemical Co., Inc., New York, N. Y. Galactagogue preparations. No. 147,149; Oct. 4.
Radior Co. Ltd. of London, New York, N. Y. Certain toilet preparations. No. 147,150; Oct. 4.
Raymond Granite Company, Inc., San Francisco and Los Angeles, Calif. Certain construction materials. No. 147,244; Oct. 4.
Red Ball Company, The, Madrid, Iowa. Certain chemical, medicinal, and toilet preparations. No. 147,151; Oct. 4.
Richartz, Matthew, New York, N. Y. Food-salt for diabetes. No. 147,152; Oct. 4.
Rite-Wate Medicine Co., Detroit, Mich. Fat-reducing remedy. No. 147,153; Oct. 4.
Roberts, W. M., Chicago, Ill. Medical preparation for the treatment of asthma. No. 147,154; Oct. 4.
Rock Plaster Corporation of New York. (See International Rock Plaster Company, assignor.)
Ross, John D., Pasadena, Calif. Sprinkler-nozzles. No. 147,245; Oct. 4.
Rudolph, J. C., & Co., Inc., Chicago, Ill. Cheese. No. 147,155; Oct. 4.
San Antonio Drug Co., San Antonio, Tex. Silicate of soda. No. 147,156; Oct. 4.
Sargent, Chas. B., Company, The, Cleveland, Ohio. Paint oils, colors, and pigments and turpentine. No. 147,157; Oct. 4.
Saylor's, Miss, Chocolates, Inc., Alameda, Calif. Candy. No. 147,158; Oct. 4.
Scherrer, Albert, New York, N. Y. Clinical thermometers. No. 147,246; Oct. 4.
Schoening-Koenigsmark Milling Co., Valmeyer, Ill. Self-rising wheat-flour. No. 147,159; Oct. 4.
Sea Island Thread Co. Inc., New York, N. Y. Mercerized thread on spools, tubes, and cones. No. 147,247; Oct. 4.
Service Oil Blending Company, Kokomo, Ind. Gasolene. No. 147,160; Oct. 4.
Severa, W. F., Co., Cedar Rapids, Iowa. Heart-stimulant. No. 147,161; Oct. 4.
Severa, W. F., Co., Cedar Rapids, Iowa. Medicine for indigestion and similar complaints. No. 147,162; Oct. 4.
Severa, W. F., Co., Cedar Rapids, Iowa. Medicine for kidneys and bladder. No. 147,163; Oct. 4.
Severa, W. F., Co., Cedar Rapids, Iowa. Antiseptic ointment. No. 147,164; Oct. 4.
Severa, W. F., Co., Cedar Rapids, Iowa. Liniment for external application. No. 147,165; Oct. 4.
Sharp & Dohme, Baltimore, Md. Certain medicinal compound. No. 147,166; Oct. 4.
Sherwin-Williams Company, The, Cleveland, Ohio. Soft paste paint to be applied on wood and metal surfaces. No. 147,167; Oct. 4.
Smith, Alfred H., Company, New York, N. Y. Certain toilet preparations. No. 147,168; Oct. 4.
Smith, Harry J., Utica, N. Y. Fly, insect, and germ destroyer. No. 147,169; Oct. 4.
Société Anonyme: de Lusy, Neuilly-sur-Seine, France. Perfumes, toilet waters and powders, rouges, &c. No. 147,248; Oct. 4.
Stadeker, Gilbert I., Chicago, Ill. Treads for automobile-pedals. No. 147,249; Oct. 4.
Standard Varnish Works, New York, N. Y. Dry, ready-mixed, and paste paints, varnishes, &c. No. 147,170; Oct. 4.
Star Extract Works, New York, N. Y. Flavoring compound extract for ice-cream. No. 147,171; Oct. 4.
Starrett, L. S., Company, Athol, Mass. Tap, drill, and wire gages. No. 147,250; Oct. 4.
Suter, Robert, Baltimore, Md. Cough-drops. No. 147,172; Oct. 4.
Templeton Manufacturing Co., Hyde Park, Mass. Steam-traps. No. 147,251; Oct. 4.
Temtor Corn & Fruit Products Co., St. Louis, Mo. Apple-butter, fruit preserves, jam, &c. No. 147,173; Oct. 4.
Temtor Corn & Fruit Products Co., St. Louis, Mo. Fruit preserves and jams. No. 147,174; Oct. 4.
Texas Star Flour Mills, Galveston, Tex. Wheat-flour. Nos. 147,175–6; Oct. 4.
Thau, Charles K., New York, N. Y. Hair-nets. Nos. 147,177–8; Oct. 4.
True Shape Hosiery Co., Philadelphia, Pa. Hosiery. No. 147,252; Oct. 4.
U-Rub-It Chemical Co., Philadelphia, Pa. Certain medicinal preparations. No. 147,180; Oct. 4.
Union Hardware Company, Torrington, Conn., and New York, N. Y. Ice racing-skates and racing roller-skates. No. 20,654; renewed Jan. 26, 1922.
Union Hardware Company, Torrington, Conn., and New York, N. Y. Ice racing-skates and racing roller-skates. No. 20,660; renewed Jan. 26, 1922.
United States Chemical Co., Pittsburgh, Pa. General-tonic tablets. No. 147,179; Oct. 4.
Vallely Laboratories, Buffalo, N. Y. Remedies for treatment of indigestion. No. 147,181; Oct. 4.
Van Baalte Company, Inc., New York, N. Y. Veils, veilings, and nettings in the piece. No. 147,182; Oct. 4.
Vino Medical Co., Inc., New York, N. Y. Liquid medicines used as tonics and as mild laxatives. No. 147,183; Oct. 4.
Walcott Lathe Company, Jackson, Mich. Lathes and shapes and parts of same. No. 147,253; Oct. 4.
Wander Company, The, Chicago, Ill. Barley-malt extract. No. 147,184; Oct. 4.
Ware, Nellie M., Cleveland, Ohio. Complexion-creams, hair-tonics, and beautifiers. No. 147,185; Oct. 4.

Wellington, Lee R., Inglewood, Calif. Certain medicine for poultry. No. 147,186; Oct. 4.
West Electric Hair Curler Co., Philadelphia, Pa. Hair-curlers. No. 147,254; Oct. 4.
Western Cheese and Butter Co., Micasio, Calif. Grated cheese. No. 147,187; Oct. 4.
White Tar Aniline Corp., The, New York, N. Y. Dyestuffs and coal-tar intermediates. No. 147,188; Oct. 4.
Witt, Harry L., Pittsburgh, Pa. Chemical vermin-exterminator. No. 147,189; Oct. 4.
Wolf, Charles A., Philadelphia, Pa. Certain liniment. No. 147,190; Oct. 4.
Wolodarsky, Jacob N., New Haven, Conn. Dental cream. No. 147,191; Oct. 4.
Zürcher, Niederer & Co., St. Gall, Switzerland. Cotton piece goods for women's dress purposes. No. 147,192; Oct. 4.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Aetna Chemical Company, Worcester, Mass. Toilet preparations for preventing, absorbing, or deodorizing perspiration. No. 149,437; Oct. 4.
Aetna Nut Co., Southington, Conn. Horseshoe heel and toe calks. No. 142,102; Oct. 4.
Aktiebolaget Vaporackumulator, Stockholm, Sweden. Steam-accumulator. No. 137,163; Oct. 4.
Aldrich Manufacturing Co., Inc., Buffalo, N. Y. Steam-tables, culinary warmers, cookers, &c. No. 149,996; Oct. 4.
American Apothecaries Company, New York, N. Y. General tonic and reconstructive to be used in the treatment of nervous exhaustion, &c. No. 149,499; Oct. 4.
American Grocers Society, Inc., Newark, N. J. Tea and coffee. No. 146,786; Oct. 4.
Amoskeag Manufacturing Company, Manchester, N. H. Bags made of cloth. No. 142,606; Oct. 4.
Anderson, Wm., Textile Mfg. Co., New York, N. Y. Textile fabrics. No. 149,572; Oct. 4.
Angier Chemical Co., Boston, Mass. Emulsion of refined petroleum used as an internal remedy. No. 138,745; Oct. 4.
Anheuser-Busch, Inc., St. Louis Mo. Maltless, carbonated chocolate beverage. No. 151,137; Oct. 4.
Apfel, Philip F., Seattle, Wash. Electric heating unit. No. 143,530; Oct. 4.
Arnold, John H., Princeton, N. J. Instruments for indicating the sex of human beings and animals and of the embryos of eggs. No. 145,986; Oct. 4.
Atlas Truck Corporation, York, Pa. Electric omnibuses or passenger-vehicles. No. 150,343; Oct. 4.
Baeder Adamson Company, Boston, Mass. Flint-paper and flint-cloth, garnet paper and garnet cloth, emery paper and emery cloth. No. 150,846; Oct. 4.
Baeder Adamson Company, Boston, Mass. Flint-paper and flint-cloth. No. 150,847; Oct. 4.
Bar Zin Toy Mfg. Co. Inc., New York, N. Y. Mouth wind musical instrument in the nature of a whistle. No. 143,739; Oct. 4.
Barnhart Brothers & Spindler, Chicago, Ill. Non-ferrous metal alloys. No. 137,562; Oct. 4.
Bartlett, E. O., & Snow Company, The, Cleveland, Ohio. Crushers for crushing coal, corn, and cobs, &c., paint-mills, paint-mixers, &c. No. 148,422; Oct. 4.
Beattie, David A., Porterville, Calif. Fresh citrus fruit. No. 144,662; Oct. 4.
Beech Chemical Company, Greenville, Pa. Healing-ointment for treatment of colds, croups, and inflammation. No. 148,792; Oct. 4.
Beiersdorf, P., & Co. Inc., New York, N. Y. Lacto-albuminous solution used for subcutaneous injection. No. 149,625; Oct. 4.
Berkeley Company, Providence, R. I. Cotton sheeting in the piece. No. 150,175; Oct. 4.
Berkeley Company, Providence, R. I. Cambrics in the piece. No. 150,177; Oct. 4.
Betts, Farrow S., Brooklyn, N. Y. Album for phonograph-records. No. 140,429; Oct. 4.
Billings Player Roll Company, Milwaukee, Wis. Player-rolls for piano-player. No. 142,918; Oct. 4.
Blaich, Adolph, Inc., San Francisco, Calif. Pocket-knives, scissors, pruning-shears, razors, &c. No. 146,351; Oct. 4.
Blaz-Away, Oakland, Calif. Kindling compounds. No. 142,550; Oct. 4.
Blumenthal, Sidney & Co. Inc., New York, N. Y. Pile fabrics in the piece. No. 151,704; Oct. 4.
Borgfeldt, George, & Co., New York, N. Y. Sewing-needles. No. 151,504; Oct. 4.
Brawley, Tilla R., Brooklyn, N. Y. Chair-pads. No. 142,561; Oct. 4.
Brewster Sons Company, Newark, N. J. Plain chocolate, milk and peanut chocolate, cocoa, candied peanut-crisp, &c. No. 144,172; Oct. 4.
Brickwedel, Arnold H., San Francisco, Calif. Natural or fresh deciduous fruits, jams, jellies, canned fruits, and vegetables, &c. No. 135,189; Oct. 4.
Bridgeville Packing Association, Bridgeville, Del. Apples, peaches, pears, cucumbers, &c. in their natural state, canned and dried. No. 145,307; Oct. 4.
Brooks & Co. Inc., Boston, Mass. Shoe parts—namely, rubber heels. No. 147,005; Oct. 4.
Brown, Clarence W., Philadelphia, Pa. Candles. No. 149,264; Oct. 4.
Bryant Electric Company, The, Bridgeport, Conn. Electric-lamp sockets and switches and parts thereof. No. 149,379; Oct. 4.
Bryant Zinc Company, Chicago, Ill. Electric highway-crossing signal. No. 146,865; Oct. 4.
Byington, Robert J., San Francisco, Calif. Electric lighting-fixtures, sadirons, and batteries. No. 147,338; Oct. 4.
Cable, George W., Marysville, Calif. Cleaner and polish for automobile-bodies. No. 152,164; Oct. 4.
Calco Chemical Company, The, Bound Brook, N. J. Pharmaceutical preparation. No. 149,172; Oct. 4.
California Conserving Co., San Francisco, Calif. Mustard, sardines, vinegar, canned vegetables, chow-chow, &c. No. 148,710; Oct. 4.
California Growers Association, Inc., Los Angeles, Calif. Canned fruits, except olives, and canned vegetables. No. 137,207; Oct. 4.
Carty Candy Co., Philadelphia, Pa. Candy. No. 134,690; Oct. 4.
Charter Chocolate Company, Boston, Mass. Candy. No. 141,554; Oct. 4.
Charter Chocolate Company, Boston, Mass. Candy. No. 141,558; Oct. 4.
Citizens' Wholesale Supply Company, The, Columbus, Ohio. Coffee makers and percolators. No. 143,257; Oct. 4.
Clark Pneumatic Action Co., Milwaukee, Wis. Expression-control devices for pneumatic players. No. 145,437; Oct. 4.
Claus Automatic Gas Cock Co., Milwaukee, Wis. Oven-temperature regulators. No. 148,535; Oct. 4.
Clausen Zoller Company, The, St. Louis, Mo. Blood and nerve tonic in liquid form. No. 149,541; Oct. 4.
Clayton-Wright Ltd., Birmingham, England. Bulb-horns and mechanical horns. No. 146,757; Oct. 4.
Cleveland Brass Manufacturing Co., The, Cleveland, Ohio. Valves, cocks, ibs, and pipe-connectors. No. 148,255; Oct. 4.
Cloud Accessories Corporation, The, Chicago, Ill. Spark-plugs for internal-combustion engines. No. 135,099; Oct. 4.
Cloud Accessories Corporation, The, Chicago, Ill. Automobile accessories, particularly spark-plugs. No. 135,651; Oct. 4.
Cohen & Ettenson, New York, N. Y. Hosiery, knitted and woven underwear, sweaters, &c. No. 144,066; Oct. 4.
Colgate Company, Jersey City, N. J. Liquid and powdered perfumes. No. 149,446; Oct. 4.
Collins Flour Mills, Pendleton, Oreg. Wheat-flour. No. 149,285; Oct. 4.
Colorado Milling & Elevator Company, The, Denver and Eaton, Colo. Wheat-flour. No. 148,318; Oct. 4.
Comer, Fetterly & Company, Union Hill, N. J. Pharmaceutical preparation. No. 148,923; Oct. 4.
Cosmopanic Pictures Corporation, The, Dover, Del., and New York, N. Y. Motion-picture films. No. 146,250; Oct. 4.
Coty, Francois J. de S., Suresnes, France. Face-powder. No. 138,842; Oct. 4.
Cuno Engineering Corporation, The, Meriden, Conn. Electric lamps, starting and ignition devices for gas-engines, cigar-lighters. No. 146,166; Oct. 4.
Curtiss Candy Co., Chicago, Ill. Chocolate-coated peanut-candy having a marshmallow center. No. 146,690; Oct. 4.
Decker, Jacob E., & Sons, Mason City, Iowa. Sausage, water, and cereal, potted meat products. No. 137,068; Oct. 4.
Dee, David G., Chicago, Ill. Electric automatic fire-detectors. No. 141,215; Oct. 4.
De La Rue, Thomas, and Company Limited, London, England. Molded electrical insulators and insulating appliances and fittings. No. 140,879; Oct. 4.
De Weese, Paul L., Lima, Ohio. Medicated foot-powder. No. 149,215; Oct. 4.
De Zeng, Henry L., Camden, N. J. Eye-testing instruments for testing the refractive media and motor-muscles of the eye. No. 146,686; Oct. 4.
Diadem Mfg. Co., Pittsburg, Mass. Combs, barrettes, fancy pins for the hair, knitting-needles, crochet-hooks, &c. No. 146,207; Oct. 4.
Diamond, M., & Co. Inc., New York, N. Y. Ladies' handbags. No. 146,818; Oct. 4.
Dillman, William C., New York, N. Y. Face-powder. No. 148,874; Oct. 4.
Dollfus-Mieg & Cie. Société Anonyme, Mulhouse, Alsace, France. Braids and articles of passementerie made of textiles of all kinds. No. 151,615; Oct. 4.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Downey, John J., Burgettstown, Pa. Washing compound. No. 139,737; Oct. 4.

Dunlap & Co., New York, N. Y. Hats and caps of all kinds for men and women, coats and suits for men and women, &c. No. 141,903; Oct. 4.

Du Pont, E. I. de Nemours & Company, Wilmington, Del. Dyestuff intermediates. No. 148,259; Oct. 4.

Eaton, Robert L., Atlanta, Ga. Tonic and liver preparation. No. 130,903; Oct. 4.

Economy Spectacle Company, Chicago, Ill. Spectacles, eyeglasses, ophthalmic lenses, and frames therefor. No. 146,137; Oct. 4.

Edgar Morgan Co., Memphis, Tenn. Mixed feeds used for domestic animals and poultry. No. 148,877; Oct. 4.

Educational Films Corporation of America, New York, N. Y. Motion-pictures. No. 147,869; Oct. 4.

Eng-Skell Company, Inc., San Francisco, Calif. Flavoring compound. No. 142,835; Oct. 4.

Erhardt, Walter L., St. Louis, Mo. Antiseptics. No. 137,218; Oct. 4.

Eustis, J. P., Manufacturing Company, Cambridge, Mass. Player-pianos and player attachments for such. No. 146,628; Oct. 4.

Exchange Orange Products Company, The, San Dimas, Calif. Insect-poison. No. 148,723; Oct. 4.

Figaro Chemical Co., Dallas, Tex. Egg-preserving compound. No. 140,641; Oct. 4.

Filipowics, J., & Co., Baltimore, Md. Remedy for the treatment of rheumatism, headache, &c. No. 149,222; Oct. 4.

Finkl, A., & Sons Co., Chicago, Ill. Steel dies used in punch-presses and analogous machines for stamping metal products. No. 147,957; Oct. 4.

Fitzpatrick Bros., Chicago, Ill. Soaps. No. 151,665; Oct. 4.

Fitzpatrick Bros., Chicago, Ill. Soaps. No. 151,667; Oct. 4.

Flax, Abraham, New York, N. Y. Children's suits, dresses, rompers, shirts, waists, &c. No. 142,436; Oct. 4.

Fleischer, Frank M., Pittsburgh, Pa. Non-alcoholic, malt-less beverage and flavoring for same. No. 149,130; Oct. 4.

Flexstone Flooring Company, The, Columbus, Ohio. Composition flooring. No. 148,220; Oct. 4.

Flores, Rodolfo, Sedalia, Mo. Powder for affections of the skin. No. 149,580; Oct. 4.

Foley, E. Y., Fresno, Calif. Fresh grapes, dried fruits, and fresh deciduous fruits. No. 148,088; Oct. 4.

Fouke Fur Company, St. Louis, Mo. Furs, skins, hides, and pelts. No. 150,229; Oct. 4.

Fruit Valley Corporation, Rochester, N. Y. Food product. Nos. 135,850–1; Oct. 4.

Funk & Malts Cap Co., St. Louis, Mo. Caps for men and boys. No. 141,169; Oct. 4.

Gaebler, Adolph N., St. Louis, Mo. Laxative pills. No. 148,590; Oct. 4.

Galloway-West Company, Fond du Lac, Wis. Evaporated milk. No. 148,591; Oct. 4.

Gem Hammock & Fly Net Company, The, Milwaukee, Wis. Oil for mops. No. 120,529; Oct. 4.

Glass Coating Company, The, Cleveland, Ohio. Steel tanks or containers for liquids. No. 129,379; Oct. 4.

Globe Cotton Oil Mills, Los Angeles, Calif. Salad and cooking oil made from cotton-seed. No. 146,546; Oct. 4.

Goldberg, Reuben L., New York, N. Y. Series of cartoons. No. 147,237; Oct. 4.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Elastic vehicle-tires and tubes therefor composed wholly or in part of rubber. No. 151,830; Oct. 4.

Granger & Co., Buffalo, N. Y. Coffee. No. 146,821; Oct. 4.

Grasser Chemical Company, Inc., New Orleans, La. Mordants. No. 131,356; Oct. 4.

Graves, W. H., Pittsburg, Kans. Preparation for use as a mouth-cleanser. No. 149,181; Oct. 4.

Greer, Edward F., Vandalia, Ill. Preparation for treatment of pyorrhea. No. 148,836; Oct. 4.

Gross, Joseph S., Los Angeles, Calif. Honey. No. 148,730; Oct. 4.

Hardeman, J. T., Hat Co., Seattle, Wash. Hats and caps for men. No. 146,552; Oct. 4.

Hartmann, Thomas W., Philadelphia, Pa. Vehicle-spring. No. 148,736; Oct. 4.

Hartmann Trunk Co., Racine, Wis. Trunks. No. 146,434; Oct. 4.

Hawaiian Pineapple Company, Ltd., Honolulu, Territory of Hawaii, and San Francisco, Calif. Canned pineapple. No. 145,454; Oct. 4.

Hawaiian Pineapple Company, Ltd., San Francisco, Calif. Canned pineapple. No. 145,564; Oct. 4.

Hawaiian Pineapple Company, Ltd., San Francisco, Calif., and Honolulu, Territory of Hawaii. Canned pineapple. Nos. 147,424–5; Oct. 4.

Hawley & Hoops, New York, N. Y. Candy. No. 140,381; Oct. 4.

Hecker-Jones-Jewell Milling Company, New York, N. Y. Wheat and graham flour, farina, cornmeal, &c. No. 147,959; Oct. 4.

Heiser Co., The, Cleveland, Ohio. Photographic plates and films. No. 148,893; Oct. 4.

Hirah, Cal, & Sons Mercantile Co., St. Louis, Mo., and Los Angeles, Calif. Kaapeachu. No. 146,019; Oct. 4.

Home Electric Lighting Company, East Orange, N. J. Electric generating plants. No. 149,220; Oct. 4.

Household Remedies Company, Birmingham, Ala. Medicine for malaria, coughs, &c., antiseptic mouth-wash, toothache-drops, &c. No. 133,062; Oct. 4.

Hoyt, Jesse M., Delaware, Ohio. Powder for general household cleaning purposes. No. 144,486; Oct. 4.

Hydraulic Steel Company, The, Cleveland, Ohio. Rolled-steel sheets and rolled steel in various forms and finishes. No. 136,648; Oct. 4.

Indertisden Canning Co., Chicago, Ill. Canned vegetables. No. 148,148; Oct. 4.

Insecto Manufacturing Co., Cedar Grove, La. Insecticide. No. 148,198; Oct. 4.

Jackson-Guldan Violin Company, The, Columbus, Ohio. Violins and parts thereof. No. 148,940; Oct. 4.

Kane, Thomas B., Philadelphia, Pa. Non-alcoholic, non-cereal, malt-less beverages and syrups for making same. No. 149,706; Oct. 4.

Kaufman-Straus Co., Louisville, Ky. Skin and massage lotions and creams, &c. No. 140,654; Oct. 4.

Kiesling, Charles E., Canton, Ohio. Medicinal tablets for headaches, neuralgia, colds, &c. No. 149,191; Oct. 4.

Kline, Nick W., Los Angeles, Calif. Salve used for cuts, sprains, bruises, piles, &c. No. 111,457; Oct. 4.

Knight, Joseph M., Elfers, Fla. Fresh oranges, grapefruit, lemons, limes, and all citrus fruits. No. 149,064; Oct. 4.

Kodyte Laboratories, The, New York, N. Y. Carbon-removing compound. No. 145,622; Oct. 4.

Krasnow, L., & Sons, Inc., Pittsburgh, Pa. Cantaloupes and fresh grapes. No. 148,152; Oct. 4.

Kwestael, Curt, Akron, Ohio. Tire-protecting and skid-preventing devices. No. 147,428; Oct. 4.

Kuhns Brothers, Dayton, Ohio. Rheums, creams, caps, lock-nuts, couplings, &c. No. 150,228; Oct. 4.

Lafferty, Herbert D., Chicago, Ill. Timers for internal-combustion engines. No. 147,737; Oct. 4.

Lawson, F. H., Company, The, Cincinnati, Ohio. Pieced and stamped tinware, sheet-metal products, &c. No. 141,072; Oct. 4.

Lehman Mfg. Co., Cannelton, Ind. Automobile-bodies. No. 147,363; Oct. 4.

Limpert Bros., Inc., New York, N. Y. Non-alcoholic, malt-less beverage. No. 150,270; Oct. 4.

Lindsey, Margaret J., Muncie, Ind. Face lotion and breakfast. No. 149,230; Oct. 4.

Lowry Laboratory, Inc., Newark, N. J. Prophylactics, particularly for venereal diseases. No. 149,241; Oct. 4.

Lyon Manufacturing Company. (See Metal Spinning & Plating Co., The, assignee.)

Mandallian, Sebastial G., North Attleboro, Mass. Chatelaine bags and purses and the compliment parts of the same. No. 146,525; Oct. 4.

Marrel, Bazain, Lebel & Guion, Paris, France. Gold alloy for jewelry and jewelers' goods. No. 148,662; Oct. 4.

Marsh Motor Car Company, Cleveland, Ohio. Passenger-automobiles. No. 148,749; Oct. 4.

McCallum, James P., Jackson, Tenn. Medicine used in the treatment of membranaceous croup, laryngitis, tonsillitis, burns, &c. No. 132,440; Oct. 4.

McKenna Brass and Manufacturing Co. Inc., Pittsburgh, Pa. Bottle washing, filling, soaking, capping, and corking machines. No. 147,884; Oct. 4.

Meichler, George F., Chicago, Ill. Hair-tonic, dandruff remedies. No. 142,150; Oct. 4.

Menley & James, Limited, New York, N. Y. Pharmaceutical preparations. No. 137,066; Oct. 4.

Metal Spinning & Plating Co., The, assignee to Lyon Manufacturing Company, Inc., Baltimore, Md. Electric parking-lamps for automobiles. No. 145,955; Oct. 4.

Metzger Brothers, Dallas, Tex. Milk drink made from sweet milk. No. 143,583; Oct. 4.

Mightyhose Corporation of New York, New York, N. Y. Boning, steels, and staying materials for corsets or other wearing-apparel. No. 147,115; Oct. 4.

Miles Manufacturing Company, Los Angeles, Calif. Compound of sugar, gelatin, and fruit acid, artificially colored and flavored. No. 146,190; Oct. 4.

Mint Gum Company, Inc., New York, N. Y. Chewing-gum. No. 144,096; Oct. 4.

Missouri Egg & Poultry Company, Sedalia, Mo. Dressed poultry. No. 144,215; Oct. 4.

Merrell, John, & Company, Ottumwa, Iowa. Lard. No. 147,364; Oct. 4.

Morton, Sundour, Fabrics Ltd., Deutonhill, Carlisle, England. Cotton piece goods. No. 148,830; Oct. 4.

Motometer Company, Inc., The, Long Island City, N. Y. Motor accessories, temperature-indicating devices for engines. No. 135,011; Oct. 4.

Mulhern, John, Company, San Francisco, Calif. Non-alcoholic, non-cereal, malt-less beverage and syrups for making same. No. 149,709; Oct. 4.

Mumphrey, Demilsick S., New Orleans, La. Non-alcoholic, non-cereal, malt-less beverages and syrups for making same. No. 145,468; Oct. 4.

Nathan & Cie. Laboratoires, Cadum, Courbevoie, France. Tooth-paste, cold-cream, complexion-powder, &c. No. 149,238; Oct. 4.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

National Aniline & Chemical Company, Inc., New York, N. Y. Dyes, dyestuffs, and colors. Nos. 148,503–8; Oct. 4.

New Era Optical Co., Chicago, Ill. Moving-picture slides, amoptiscopes, eyeglasses, spectacles, &c. No. 140,397; Oct. 4.

New Era Optical Co., Chicago, Ill. Moving-picture slides, amoptiscopes, eyeglasses, spectacles, &c. No. 140,800; Oct. 4.

New York Quebracho Extract Company, New York, N. Y. Tanning extracts. Nos. 148,668–70; Oct. 4.

Norton Company, Inc., The, Jersey City, N. J. Candles. No. 146,264; Oct. 4.

Novak, Gilbert J., Philadelphia, Pa. Preparation for indigestion, constipation, bad breath, &c. No. 148,811; Oct. 4.

Ohio Dairy Co., The, Toledo, Ohio. Butter substitute. No. 138,998; Oct. 4.

Ollendorff, Julian, Brooklyn, N. Y. Motion-picture films showing sketches, drawings, and photographs. No. 146,586; Oct. 4.

Oppenheim, Oberndorf & Co., Inc., Baltimore, Md. Children's bloomers. No. 147,043; Oct. 4.

Oregon Growers Co-operative Assn., Salem, Oreg. Fresh and dried deciduous fruits. No. 147,451; Oct. 4.

Original Hair Net Company, Chicago, Ill. Hair-nets. No. 149,247; Oct. 4.

Osram G. m. b. H., Kommanditgesellschaft, Berlin, Germany. Electric incandescent lamps and their parts. No. 149,240; Oct. 4.

Pacific Metal Bearing Company, San Francisco, Calif. Journal-bearings. No. 148,849; Oct. 4.

Paine, Charles L., Indianapolis, Ind. Vending-machines provided with means for keeping contents hot. No. 148,893; Oct. 4.

Paiste, H. T., Company, Philadelphia, Pa. Luminous pendants adapted to be attached to any object that it may be desired to locate in the dark. No. 148,346; Oct. 4.

Palmer, Solon, New York, N. Y. Hair-dye. No. 148,671; Oct. 4.

Pallarés, Hermanos, Cabra, Spain. Olive-oil. No. 133,560; Oct. 4.

Pantasote Leather Company, The, Passaic, N. J. Waterproof cloth in the piece. No. 149,482; Oct. 4.

Pantoskey, Jacob, San Francisco, Calif. Iron and steel pipe-fittings. No. 148,163; Oct. 4.

Patterson Mineral Water & Beverage Co., Chicago, Ill. Non-alcoholic, malt-less beverages and syrups for making same. No. 150,566; Oct. 4.

Peabody School Furniture Co., The, North Manchester, Ind. Wood and combination wood and metal teachers' chairs, portable folding opera and assembly chairs, &c. No. 145,856; Oct. 4.

Penetro Chemical Company, Atlantic City, N. J., and Philadelphia, Pa. Mouth-wash. No. 146,329; Oct. 4.

Phonograph Accessories Co., Milwaukee, Wis. Phonograph-record files. No. 131,352; Oct. 4.

Piccoli, Nick, Paterson, N. J. Shoe-polish in paste, liquid, and powdered form. No. 149,599; Oct. 4.

Pioneer Tar Soap Company, The, Dayton, Ohio. Soaps. No. 151,809; Oct. 4.

Plume & Atwood Mfg. Company, The, Waterbury, Conn. Straight and safety pins. No. 149,201; Oct. 4.

Polyphonwerke Aktien-Gesellschaft, Berlin, Germany. Talking-machines and records. No. 145,584; Oct. 4.

Prima, Frank R., Corporation, The, New York, N. Y. Wheat-flour. Nos. 149,350–1; Oct. 4.

Princess Garment Company, The, Cincinnati, Ohio. Middies, middy-suits, wash-dresses, smocks, &c. No. 134,787; Oct. 4.

Q. R. S. Music Company, The, Chicago, Ill. Perforated note-sheets for player-pianos. No. 144,684; Oct. 4.

Red Fox Company, The, Providence, R. I. Ginger-ale. No. 148,816; Oct. 4.

Ricco Company of America, The, Columbus, Ga. Non-alcoholic, malt-less beverages. No. 150,371; Oct. 4.

Richland Milling Company, Belleville, Ill. Hen and chick feed, laying-mash, and cornmeal. No. 149,356; Oct. 4.

Ridenour-Baker Grocery Company, Kansas City, Mo. Coffee. No. 148,166; Oct. 4.

Riedel, J. D., Aktiengesellschaft, Berlin-Britz, Germany. Potash salt of the cyan-mercury-salicylic acid. No. 148,551; Oct. 4.

Rinker-Deas Paint Co., Augusta, Ga. Paints, dry, ready mixed, and in paste form. No. 148,557; Oct. 4.

Robertson Candy Co., New York, N. Y. Fruit tablets and other candies. No. 148,764; Oct. 4.

Robins, Max, Chicago, Ill. Face-powder. No. 147,210; Oct. 4.

Root Company, The, Bristol, Conn. Counting-machines. No. 147,942; Oct. 4.

Rose, James T., Huntington, W. Va. Dresses, coats, and fur coats, skirts, suits, scarfs. No. 144,790; Oct. 4.

Rosenfield, Louis, Chicago, Ill. Canned fruit, vegetables, fish, and condensed milk. No. 143,061; Oct. 4.

Rubber & Celluloid Products Company, Newark, N. J. Parts of harness for horses. No. 143,836; Oct. 4.

Rusk Oil Co. of Philadelphia, Pa., Philadelphia, Pa. Lubricating-greases. No. 140,545; Oct. 4.

Russell & Gilbert Co., Portland, Oreg. Candy. No. 146,598; Oct. 4.

Roxana Filkins, Traverse City, Mich. Remedy for hay-fever, bronchitis, catarrh, &c. No. 149,394; Oct. 4.

Samoset Chocolates Company, Boston, Mass. Chocolate candy. No. 134,147; Oct. 4.

Semel, J. H., & Co., New York, N. Y. Hosiery. No. 145,087; Oct. 4.

Seneca Camera Manufacturing Company, Rochester, N. Y. Photographic film. No. 146,746; Oct. 4.

Senegas, Jean, New York, N. Y. Solution for lightening the shade of hair. No. 149,487; Oct. 4.

Seril, Abraham, New York, N. Y. Cambrics, muslins, lawns, pongees, &c., in the piece. No. 146,667; Oct. 4.

Sharon Steel Hoop Company, Sharon, Pa. Steel plates, strips, and sheets. No. 149,827; Oct. 4.

Sharp Spark Plug Company, The, Cleveland, Ohio. Spark-plugs. No. 117,415; Oct. 4.

Sherwin-Williams Company, The, Cleveland, Ohio. Preparation for removal of paints, finishes, enamels, japans, varnishes, &c. No. 147,134; Oct. 4.

Ship Owners Radio Service, Inc., New York, N. Y. Cell-batteries, storage batteries, switch-panels, &c. No. 149,150; Oct. 4.

Shortiss, Thomas, Toronto, Ontario, Canada. Confectionery. No. 143,411; Oct. 4.

Small, L. K., Company, Los Angeles, Calif. Fresh citrus and deciduous fruits and fresh vegetables. No. 147,475; Oct. 4.

Smile Company, The, Topeka, Kans. Roasted coffee. No. 146,738; Oct. 4.

Societe Française de Cotons à Coudre (Societe Anonyme), Paris, France. Cotton thread. No. 150,478; Oct. 4.

Societe Française de Cotons à Coudre (Societe Anonyme), Paris, France. Cotton thread. No. 150,477; Oct. 4.

Societe Française de Cotons à Coudre (Societe Anonyme), Paris, France. Cotton thread. Nos. 150,479–81; Oct. 4.

Societe Française de Cotons à Coudre (Societe Anonyme), Paris, France. Cotton thread. Nos. 150,483–5; Oct. 4.

Societe Française de Cotons à Coudre (Societe Anonyme), Paris, France. Cotton thread. Nos. 150,487–8; Oct. 4.

Société Anonyme des Parfums d'Arys, Courbevoie, France. Perfumes, eau-de-cologne, toilet cream, face-lotions, &c. No. 143,620; Oct. 4.

Socciof, Joe., Co. Inc., Brooklyn, N. Y. Canned fish. No. 125,913; Oct. 4.

Standard Bottling Company, Newark, N. J. Non-alcoholic, non-cereal malt-less beverages and syrups for making same. No. 150,207; Oct. 4.

Standard Conveyor Company, North St. Paul, Minn. Gravity, slat, power, and belt conveyers, incline-elevators, &c. No. 1,393,316; Oct. 4.

Standard Varnish Works, New York, N. Y. Paint and varnish remover. No. 150,275; Oct. 4.

Staveley Coal & Iron Co. Limited, The, Barrow Hill, near Chesterfield, England. Waterproof cement for building. No. 152,140; Oct. 4.

Steinmetz, Louis A., Brooklyn, N. Y. Hair-tonic. No. 146,938; Oct. 4.

Storage Battery & Appliance Corporation, The, Philadelphia, Pa. Storage batteries. No. 146,189; Oct. 4.

Stork, Charles T., Buffalo, and New York, N. Y. Chemicals having oxidising properties. No. 148,855; Oct. 4.

Strohmeyer & Arpe Company, New York, N. Y. Vegetable oil and mayonnaise and salad-oil. No. 146,276; Oct. 4.

Sup-R-Lin Products Co., Independence, Mo. Paint and oils. No. 149,105; Oct. 4.

Swift and Company, Chicago, Ill. Sausage. No. 133,233; Oct. 4.

Taggart Baking Company, Indianapolis, Ind. Bread. No. 148,773; Oct. 4.

Talcum Puff Co., Brooklyn, N. Y. Talcum powder. No. 149,605; Oct. 4.

Taylor-Van Houten Co., Lansing, Mich. Paint and varnish remover. No. 150,642; Oct. 4.

Torbensen Axle Company, The, Cleveland, Ohio. Motor-vehicle axles and gear-casing constructions therefor. No. 149,724; Oct. 4.

Tully, Lawrence M., Oakland, Calif. Candies. No. 136,242; Oct. 4.

Union Tool Chest Company, Rochester, N. Y. Tool-chests. No. 138,792; Oct. 4.

United Electric Company, The, Canton, Ohio. Electric suction-cleaners. No. 146,854; Oct. 4.

United Turkey Red Company, Limited, Glasgow, Scotland. Laundry and toilet soap, soap powder, saponaceous flakes, &c. No. 144,439; Oct. 4.

Virzi Bros., New York, N. Y. Musical instruments. No. 145,678; Oct. 4.

Vitamine Food Products Company, Chicago, Ill. Food products—namely, yeast and artificial foods containing yeast, &c. No. 148,466; Oct. 4.

Wagner, Theodore B., Brooklyn, N. Y. Cereal breakfast foods and specially-prepared foods intended primarily for infants and invalids. No. 147,141; Oct. 4.

Walker, Edward C., 3d, Batavia, N. Y. Pails, pans, vats, buckets, scoops, &c. No. 139,998; Oct. 4.

Walker Properties Association, Austin, Tex. Canned chili-con-carne and canned hot tamales. No. 148,416; Oct. 4.

Wanamaker, John, New York, New York, N. Y. Clothing. No. 135,586; Oct. 4.

Ward Baking Company, New York, N. Y. Bread. No. 148,635; Oct. 4.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 3, 1907.]

Warren Brothers Company, Boston, Mass. Pavements and paving materials containing bituminous matter. No. 151,967; Oct. 4.

Weber Flour Mills Corporation, The, Salina, Kans. Wheat-flour. No. 147,143; Oct. 4.

West, Mahlen J., McAllen, Tex. Women's hats. No. 146,408; Oct. 4.

Western Chemical Company, Inc., Redfield, S. D., and Hutchinson, Minn. Antiseptic solution. No. 148,683; Oct. 4.

Western Industries Co., San Francisco, Calif. Denatured alcohol. No. 149,840; Oct. 4.

Western Soap Company, Spokane, Wash. Liquid laundry, and grit soap. No. 151,601; Oct. 4.

Wilkes & Seaman Co., Louisville, Ky. Baking-powder. No. 148,631; Oct. 4.

Winchester Repeating Arms Co., New Haven, Conn. Flashlights and electric batteries. No. 148,284; Oct. 4.

Winsor & Newton, Limited, London, England. Artists' colors. No. 151,814; Oct. 4.

Worcester Salt Co., Silver Springs and New York, N. Y. Common salt. Nos. 149,307–8; Oct. 4.

Wynne, Oliver, Norfolk, Va. Lard substitute. No. 144,792; Oct. 4.

Young & Griffin Coffee Co., Inc., New York, N. Y. Coffee. No. 148,359; Oct. 4.

Zoltowski, John, Milwaukee, Wis. Waterproofing composition for waterproofing leather, cloth, or wood. No. 146,154; Oct. 4.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 4TH DAY OF OCTOBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Advertising device and paper-holder. A. Anderson. No. 1,392,611; Oct. 4.

Aeroplane. Device for fixing an engine in an. P. J. R. Postel-Vinay. No. 1,392,655; Oct. 4.

Aeroplane-guy-wire connection. F. Schumaier. No. 1,392,529; Oct. 4.

Air-compressor and vacuum-producer, Hydraulic. B. Skidmore, Jr. No. 1,392,854; Oct. 4.

Air-compressor and vacuum-producer, Hydraulic. B. Skidmore, Jr. No. 1,392,855; Oct. 4.

Air-compressor and vacuum-producer, Hydraulic. B. Skidmore, Jr. No. 1,392,856; Oct. 4.

Air-compressor and vacuum-producer, Hydraulic. B. Skidmore, Jr. No. 1,392,857; Oct. 4.

Air-lifting device. W. N. Howe. No. 1,392,451; Oct. 4.

Aircraft, without slowing the propeller, Means for varying the speed and stopping way of. J. G. A. Kitchen. No. 1,392,831; Oct. 4.

Alarm: *See*—
Burglar-alarm.

Alarm. J. Horn, F. H. May, and J. Meilner. No. 1,392,588; Oct. 4.

Alarm device. J. M. Butcher. No. 1,392,397; Oct. 4

Aldehydes and other oxidation products, Making. C. H. Bibb. No. 1,392,886; Oct. 4.

Alloys, Manufacture of. H. L. Sulman and W. Ballantine. No. 1,392,462; Oct. 4.

Anchor. P. J. Ryan. No. 1,392,526; Oct. 4.

Animal-trap. A. F. Renken. No. 1,392,797; Oct. 4.

Applying device. J. W. Cosgrove. No. 1,392,301; Oct. 4.

Arc-light. J. J. Harmer. No. 1,392,497; Oct. 4.

Arc-welding, Method of and apparatus for. H. D. Morton. No. 1,392,436; Oct. 4.

Arc-welding system and operating same. H. D. Morton. No. 1,392,437; Oct. 4.

Armatures, Insulation for. J. F. Cullin. No. 1,392,557; Oct. 4.

Assembling-machine. L. O. Thomas. No. 1,392,858; Oct. 4.

Auto attachment. F. C. Miles. No. 1,392,432; Oct. 4.

Auto-carrier. J. M. Loveless. No. 1,392,777; Oct. 4.

Automobile-bodies, Method and apparatus for protecting workmen sandpapering. C. Fessler. No. 1,392,870; Oct. 4.

Automobile-holder, Adjustable. L. C. Nicoson. (Reissue.) No. 15,203; Oct. 4.

Automobile-jack. A. E. Burnside. No. 1,392,297; Oct. 4.

Automobile-lifter. L. L. Kellogg. No. 1,392,358; Oct. 4.

Automobile-lock. F. H. Howard. No. 1,392,400; Oct. 4.

Automobile-lock. R. N. Lawrence. No. 1,392,772; Oct. 4.

Automobile-polish, (Composition.) T. Brown. No. 1,392,477; Oct. 4.

Automobile-radiators, Device for controlling the temperature of. R. L. Pate. No. 1,392,521; Oct. 4.

Automobile-radiators, Device for controlling the temperature of. R. L. Pate. No. 1,392,522; Oct. 4.

Automobile-signal. W. Willis. No. 1,392,731; Oct. 4.

Automobile-surfacing. H. B. Day. No. 1,392,889; Oct. 4.

Automobile transmission, Gear-shifting means for. F. J. Hofmeister and J. O. Middaugh. No. 1,392,830; Oct. 4.

Automobiles, Fuel-feeding device for. W. H. Muxy. No. 1,392,652; Oct. 4.

Automobiles, Rear-bumper bracket for. G. S. MacLeod. No. 1,392,428; Oct. 4.

Baby-carriages, Auxiliary seat for. E. H. Struebing. No. 1,392,461; Oct. 4.

Backband-hook. W. C. Martin. No. 1,392,843; Oct. 4.

Bag-support. M. C. Spraggins. No. 1,392,716; Oct. 4.

Bank, Small-coin. I. J. Kusel. No. 1,392,689; Oct. 4.

Bar: *See*—
Palatal bar.

Bath apparatus, Portable shower-. A. P. Gumaer. No. 1,392,495; Oct. 4.

Battery-clamp. G. T. W. Gales. No. 1,392,757; Oct. 4.

Battery strap-posts, Molding apparatus for. G. P. Washburn. No. 1,392,884; Oct. 4.

Bearing and oiling means therefor. A. H. De Voe. No. 1,392,906; Oct. 4.

Bearings, Roller-filler for. L. Bartlett. No. 1,392,550; Oct. 4.

Bed-clamp. M. Leaf. No. 1,392,561; Oct. 4.

Beehive. J. Gorniak. No. 1,392,635; Oct. 4.

Belt. J. E. Frank. No. 1,392,319; Oct. 4.

Belt-fastener. E. A. Thurston. No. 1,392,722; Oct. 4.

Bevel-protractor. C. Straub. No. 1,392,607; Oct. 4.

Bicycle stand or support. A. Donati. No. 1,392,749; Oct. 4.

Block: *See*—
Tapping-block.

Board: *See*—
Educational board.

Body support and lock. W. C. Anthony. No. 1,392,615; Oct. 4.

Boiler: *See*—
Milk-boiler.

Boiler and ship plates, cutting inclined keyways, or other purposes, Machine for scarfing. J. W. Barnes. No. 1,392,549; Oct. 4.

Boiler-cleaner. H. H. Dick. No. 1,392,307; Oct. 4.

Book and manifolding, Manifolding-. C. B. Davidson. No. 1,392,748; Oct. 4.

Boring-machine. W. F. McCarty. No. 1,392,778; Oct. 4.

Boring-tool. R. R. Davis. No. 1,392,304; Oct. 4.

Bottles, Safety-holder for milk-. J. H. Wilhelm. No. 1,392,809; Oct. 4.

Bow-holder. E. E. Hamilton. No. 1,392,684; Oct. 4.

Box: *See*—
Match-box.

Brace: *See*—
Corner-brace.
Plow-beam brace.

Bracket: *See*—
Bumper-bracket.
Curtain-bracket.
Lamp-bracket.

Brake mechanism. J. F. Streib. No. 1,392,368; Oct. 4.

Brass-furnace. A. Fisher. No. 1,392,317; Oct. 4.

Bricks or blocks from natural deposits, Apparatus for cutting. E. B. Starr and H. E. Marsh. No. 1,392,659; Oct. 4.

Broaching-machine. F. J. Lapointe. No. 1,392,770; Oct. 4.

Brooder-canopy, Knockdown. H. M. Sheer. No. 1,392,708; Oct. 4.

Broom. S. G. Wilson. No. 1,392,384; Oct. 4.

Brush, Automobile-. R. L. Cheatham. No. 1,392,623; Oct. 4.

Brush connection. H. B. Eynon. No. 1,392,563; Oct. 4.

Brush, Shaving-. C. F. Stoewsand. No. 1,392,369; Oct. 4.

Bucket, Mop-. A. A. Cunningham. No. 1,392,483; Oct. 4.

Bumper bracket, Front-. G. S. MacLeod. No. 1,392,427; Oct. 4.

Burglar-alarm. J. F. Hardwick. No. 1,392,326; Oct. 4.

Burner: *See*—
Fuel-oil burner.

Cab-turret, Invisible. H. R. Stafford. No. 1,392,457; Oct. 4.

Cabinet, Shower-bath. B. Landau. No. 1,392,580; Oct. 4.

Cable connection. A. E. Clarke. No. 1,392,480; Oct. 4.

Calculating-machines, Locking device in. V. J. Odhner. No. 1,392,847; Oct. 4.

Cameras, Adjustable iris for. J. E. Leonard. No. 1,392,876; Oct. 4.

Cameras, View-finder for photographic. J. Goddard. No. 1,392,759; Oct. 4.

Can-opener. H. Till. No. 1,392,466; Oct. 4.

Can-sealer, Friction-top. F. Crawford. No. 1,392,867; Oct. 4.

Candy-preserving machine. C. Webke. No. 1,392,863; Oct. 4.

Cap-threading machine. A. L. Merolle. No. 1,392,844; Oct. 4.

Car ends, Machine for and method of lining. C. W. Graham. No. 1,392,492; Oct. 4.

Car-heater. L. P. Hynes. No. 1,392,686; Oct. 4.

Car, Hopper-. M. A. Villiamo. No. 1,392,571; Oct. 4.

Car, Ore-. A. Roy. No. 1,392,801; Oct. 4.

Car-replacer, Automatic. J. W. Bodle. No. 1,392,392; Oct. 4.

Car-step, Folding. T. Davis. No. 1,392,821; Oct. 4.

Car-truck. G. K. Thompson. No. 1,392,721; Oct. 4.

Cars, Load-securing means for freight-. O. M. Leishman. No. 1,392,843; Oct. 4.

Carbureter fuel control. V. E. Wasserlein. No. 1,392,724; Oct. 4.

Carrier: *See*—
Auto-carrier.
Cigar-carrier.
Tire-carrier.

Carrier equipment, Woven. F. R. Batcheldor. No. 1,392,551; Oct. 4.

Carton display, Collapsible-. G. Kay. No. 1,392,887; Oct. 4.

Case: *See*—
License-certificate-display case.
Centrifugal regulating device. W. M. Fulton. No. 1,392,690; Oct. 4.
Chain, Antiskid. J. M. Starr. No. 1,392,681; Oct. 4.
Chair: *See*—
Lineman's safety-chair.
Change-making machine, Selective. J. E. Lewis. No. 1,392,691; Oct. 4.
Chuck. J. F. Buhr. No. 1,392,678; Oct. 4.
Churn. E. N. Paris. No. 1,392,789; Oct. 4.
Cigar-carrier. G. R. Fullenwider. No. 1,392,469; Oct. 4.
Circuits, Switch for electric. A. Graf. No. 1,392,324; Oct. 4.
Clamp: *See*—
Battery-clamp. Cloth-clamp.
Bed-clamp.
Clamping means for rotary members. E. P. Shannon. No. 1,392,363; Oct. 4.
Clasp. F. W. Crocker. No. 1,392,816; Oct. 4.
Classifying materials, Method and apparatus for. H. M. and T. M. Chance. No. 1,392,401; Oct. 4.
Cleaner: *See*—
Boiler-cleaner. Vacuum-cleaner.
Clevis-antirattling and pin-retaining attachment. C. H. Duffy. No. 1,392,561; Oct. 4.
Clip: *See*—
Key-ring clip. Photo-film clip.
Cloth-clamp. J. B. Berry. No. 1,392,552; Oct. 4.
Clothes hanger and brush, Combination. J. H. Goldberg. No. 1,392,634; Oct. 4.
Coal and concentrating ores and minerals, Method and apparatus for washing. T. M. Chance. No. 1,392,399; Oct. 4.
Coal and concentrating ores and minerals, Washing. T. M. Chance. No. 1,392,400; Oct. 4.
Coal, ore, &c., Apparatus for handling. C. S. Williamson. No. 1,392,352; Oct. 4.
Coasting apparatus, Elevated. P. M. Swaim. No. 1,392,719; Oct. 4.
Collar and necktie holder. F. B. Byers. No. 1,392,298; Oct. 4.
Collar, cuff, and neckband press. C. L. Braley and C. E. Waream. No. 1,392,296; Oct. 4.
Collars, Holder for. F. J. Le Clair. No. 1,392,582; Oct. 4.
Combustible and other liquids, Tank or receptacle for. J. Imber. No. 1,392,692; Oct. 4.
Compasses, R. Gonsales. No. 1,392,825; Oct. 4.
Concrete blocks, Automatic press for. W. J. Milner. No. 1,392,435; Oct. 4.
Concrete building, Reinforced-. J. T. Simpson. No. 1,392,582; Oct. 4.
Concrete-form. J. C. Hain. No. 1,392,496; Oct. 4.
Concrete structures, Metal-reinforcing frame for. W. E. Fickien. No. 1,392,315; Oct. 4.
Connecting-rod-oiling means. J. W. Nelson and R. S. Coulter. No. 1,392,592; Oct. 4.
Containers, Carrier for pasteboard. H. B. Pettee. No. 1,392,702; Oct. 4.
Controlling mechanism. L. E. Willard. No. 1,392,378; Oct. 4.
Cooker and range, Electric fireless. L. W. Serrell. No. 1,392,802; Oct. 4.
Cord-tip. J. P. Kelly. No. 1,392,339; Oct. 4.
Core, Collapsible. T. Middley. No. 1,392,347; Oct. 4.
Corner-brace. J. Lill. No. 1,392,839; Oct. 4.
Coupling: *See*—
Electric coupling. Flexible coupling.
Crucibles, Process and apparatus for the manufacture of. L. Vergnaud. No. 1,392,541; Oct. 4.
Culling-machine. C. W. Johnson. No. 1,392,505; Oct. 4.
Curtain bracket, Adjustable window-. E. C. Rosencrans. No. 1,392,602; Oct. 4.
Curtain-shade circuit-closure. J. Havran. No. 1,392,641; Oct. 4.
Cut-out or circuit-breaker, Electrical. W. H. Illingworth. No. 1,392,873; Oct. 4.
Cutter: *See*—
Gear-cutter. Sugar-cane cutter.
Sole-channeling cutter.
Dam construction. O. J. Hallee. No. 1,392,414; Oct. 4.
Dental bridge. J. B. Foster. No. 1,392,824; Oct. 4.
Desiccator. W. O. Rew. No. 1,392,656; Oct. 4.
Dimmer. E. C. Midgley. No. 1,392,878; Oct. 4.
Direction-indicating signal. G. B. Owens. No. 1,392,442; Oct. 4.
Direction-indicator. E. F. Kiessling. No. 1,392,506; Oct. 4.
Dirigible headlight. G. W. J. Crabb and E. J. Rennie. No. 1,392,747; Oct. 4.
Dish-washing machine. W. U. Boedeker. No. 1,392,476; Oct. 4.
Dispensing device. E. B. Williams. No. 1,392,879; Oct. 4.
Dispersoids, Colloid powder and masses therefrom, Manufacture of. H. Plauson. No. 1,392,849; Oct. 4.
Disinfectant, Producing solidified soluble. A. Franck-Philipson. No. 1,392,564; Oct. 4.
Dough-mixer. B. D. Pinkney. No. 1,392,446; Oct. 4.
Draft-equalizer. A. Beaton. No. 1,392,738; Oct. 4.
Drier: *See*—
Grain-drier.
Drill-chuck. J. H. Phillips. No. 1,392,702; Oct. 4.
Drink-mixer. M. Langhaus. No. 1,392,875; Oct. 4.
Driving mechanism. C. G. Thompson. No. 1,392,465; Oct. 4.
Dumping device. C. F. Randall. No. 1,392,448; Oct. 4.
Dustpan. W. Dugrd. No. 1,392,406; Oct. 4.
Duster. E. G. Gilman. No. 1,392,633; Oct. 4.
Educational apparatus. P. J. Jones. No. 1,392,578; Oct. 4.
Educational board. V. O. Watkins. No. 1,392,726; Oct. 4.
Eggs, Apparatus for cleaning. C. J. Williamson. No. 1,392,516; Oct. 4.
Electric coupling. W. A. Darrah and R. G. Averill. No. 1,392,568; Oct. 4.
Electric light, Portable. H. M. Koretsky. No. 1,392,420; Oct. 4.
Electric switch. L. P. Hynes. No. 1,392,332; Oct. 4.
Electromagnetic transmission. A. H. Neuland. No. 1,392,340; Oct. 4.
Elevator-door-operating mechanism. C. L. Fulshum. No. 1,392,830; Oct. 4.
Engine: *See*—
Semidiesel oil-engine. Two-stroke-cycle engine.
Traction-engine.
Engine or motor. G. W. Gill. No. 1,392,322; Oct. 4.
Engines, Ignition device for internal-combustion. F. A. Smith. No. 1,392,264; Oct. 4.
Engines, Mechanism for driving cam-shafts of internal-combustion. H. R. Ricardo. No. 1,392,597; Oct. 4.
Engines, Timer for internal-combustion. J. F. Meyer. No. 1,392,694; Oct. 4.
Envelop. P. J. Lemmer. No. 1,392,344; Oct. 4.
Ethylene and other unsaturated hydrocarbons, Preparing. W. H. Ross. No. 1,392,652; Oct. 4.
Explosive. W. Rintoul, T. J. Nolan, and O. W. Strickland. No. 1,392,351; Oct. 4.
Extension-table. F. Santoro. No. 1,392,527; Oct. 4.
Extractor: *See*—
Honey-extractor.
Extractors, Control of. S. Prestwich. No. 1,392,352; Oct. 4.
Fabric-measuring and cost-computing machine. D. Turner. No. 1,392,723; Oct. 4.
Faucet with drinking attachment. N. Spatter and A. Welikoff. No. 1,392,456; Oct. 4.
Feeding and cutting device, Insert. H. A. W. Wood. No. 1,392,470; Oct. 4.
Feeding device, Time-controlled. O. Egeland. No. 1,392,311; Oct. 4.
Feeding mechanism. H. Synck and B. B. Rollman. No. 1,392,720; Oct. 4.
Fender: *See*—
Vehicle-fender.
Fertilizers, &c., Mixing and screening device for. A. M. Marshall. No. 1,392,589; Oct. 4.
Filtration. H. F. Glair. No. 1,392,758; Oct. 4.
Fire-escape. F. Sebestakowics. No. 1,392,660; Oct. 4.
Fishing-reel. L. Atwood. No. 1,392,735; Oct. 4.
Fishing-tool. J. P. McMillian. No. 1,392,650; Oct. 4.
Fishing-tool. A. F. Rose. No. 1,392,599; Oct. 4.
Flexible coupling. W. J. Francke. No. 1,392,755; Oct. 4.
Floor-mat and making same. E. Jackson. No. 1,392,333; Oct. 4.
Fluids from sealed containers without contamination, Withdrawing. J. J. Seelman. No. 1,392,454; Oct. 4.
Folding stand. R. E. Dice. No. 1,392,486; Oct. 4.
Fruit-holder for pitting-machines. G. R. Paranteau. No. 1,392,520; Oct. 4.
Fruit-pitting machine. C. S. Leonard. No. 1,392,690; Oct. 4.
Fruit-pitting machine. G. R. Paranteau. No. 1,392,518; Oct. 4.
Fruit-pitting machines, Knife for. G. R. Paranteau. No. 1,392,519; Oct. 4.
Fuel-economiser. G. L. Prots. No. 1,392,447; Oct. 4.
Fuel-oil burner. J. E. Rodgers. No. 1,392,450; Oct. 4.
Fuel-saving device. F. S. Miller. No. 1,392,695; Oct. 4.
Fuel-vaporizing heater. S. L. Whitright. No. 1,392,729; Oct. 4.
Furnace: *See*—
Brass furnace. Slag-furnace.
Hot-air furnace.
Furnaces, Fuel-saving device for. N. J. Russell. No. 1,392,453; Oct. 4.
Furniture, Combination. J. Pifko. No. 1,392,595; Oct. 4.
Gage: *See*—
Liquid supply tank gage. Screw-thread gage.
Pressure-gage. Sewer's gage.
Galvanizing or otherwise coating articles, Apparatus for. C. J. Lane. No. 1,392,509; Oct. 4.
Game. E. W. Seibold. No. 1,392,662; Oct. 4.
Game apparatus. H. Loewenbach. No. 1,392,586; Oct. 4.
Game, Card. E. F. Parks. No. 1,392,351; Oct. 4.
Game, Racing. M. Higuchi. No. 1,392,764; Oct. 4.
Garages, &c., Automobile-handling device for. C. J. Warren. No. 1,392,610; Oct. 4.
Garment-press. C. E. Waream. No. 1,392,375; Oct. 4.
Garment press and steaming mechanism. D. H. Benjamin and G. N. Link. No. 1,392,289; Oct. 4.
Garment-supporter. J. N. and C. A. Faust. No. 1,392,314; Oct. 4.
Garment, Union-. B. Custer. No. 1,392,303; Oct. 4.
Gas-heater. L. Cinq-Mars. No. 1,392,479; Oct. 4.
Gasket-lining machine, Semi-automatic. C. W. Graham. No. 1,392,493; Oct. 4.
Gear-cutter. W. T. Sears. No. 1,392,361; Oct. 4.

Gear, Planetary driving-. M. C. Horine. No. 1,392,567; Oct. 4.
Generator: *See*—
Steam-generator.
Goggles. G. S. Johnston. No. 1,392,832; Oct. 4.
Grain-drier. W. Putnam and G. D. Longman. No. 1,392,794; Oct. 4.
Grain-drill attachment. H. Zarnstorf. No. 1,392,732; Oct. 4.
Grain-separators, Clutch for. J. R. Crogan. No. 1,392,408; Oct. 4.
Grain-treating machine. H. Lepak. No. 1,392,649; Oct. 4.
Grinder, Automatic cutlery-. O. P. Norman. No. 1,392,696; Oct. 4.
Grinding machine, Vertical-surface-. B. M. W. Hanson. No. 1,392,325; Oct. 4.
Grinding-mill. C. G. Thompson. No. 1,392,464; Oct. 4.
Grinding-tool. J. F. MacDonald. No. 1,392,426; Oct. 4.
Gypsum, Making plastic calcined W. E. Emley. No. 1,392,574; Oct. 4.
Hair waver and curler. L. Berkovi. No. 1,392,812; Oct. 4.
Hairpin. C. B. Sitz. No. 1,392,711; Oct. 4.
Hairpin. F. Walker. No. 1,392,374; Oct. 4.
Handbags, Fastener for. M. Sloane. No. 1,392,712; Oct. 4.
Handle: *See*—
Tool-handle.
Hanger: *See*—
Shade and curtain hanger.
Hat-shaping apparatus. L. Stevens. No. 1,392,605; Oct. 4.
Hat-shaping device. A. G. Henkel. No. 1,392,628; Oct. 4.
Headlight for vehicles, Dirigible. C. F. Fletcher. No. 1,392,486; Oct. 4.
Heat-distributer. A. B. Cruickshank. No. 1,392,868; Oct. 4.
Heat-exchange apparatus, Damper control for. J. M. Harrison. No. 1,392,761; Oct. 4.
Heater: *See*—
Car-heater. Gas-heater.
Fuel-vaporizing heater. Oil-heater.
Heel for shoes, Cushion-. H. Faegenson. No. 1,392,823; Oct. 4.
Heel, Shoe-. E. O. R. Krause. No. 1,392,769; Oct. 4.
Heels, Clamping device for shoe-. H. H. Roose. No. 1,392,257; Oct. 4.
Hoist, Traveling. R. L. Neubert. No. 1,392,785; Oct. 4.
Holder. J. E. Mamalakis. No. 1,392,842; Oct. 4.
Honey-extractor. B. M. Crawford. No. 1,392,679; Oct. 4.
Hook: *See*—
Barbered-hook.
Hose-supporter. C. A. and E. V. Lindquist. No. 1,392,776; Oct. 4.
Hot-air furnace. D. A. Brunett. No. 1,392,888; Oct. 4.
Hydrocarbon-motor. L. K. Snell. No. 1,392,534; Oct. 4.
Hydrocarbons, Converting. C. P. Dubbs. No. 1,392,629; Oct. 4.
Hydrocarbons, Purification of. J. M. Treneer and C. S. Benjamin. No. 1,392,870; Oct. 4.
Ice-cream freezer. J. C. Gibbs. No. 1,392,412; Oct. 4.
Ice, Process and apparatus for making. W. and J. O. Winbart. No. 1,392,885; Oct. 4.
Ignition mechanism. R. F. Meyer. No. 1,392,431; Oct. 4.
Incubator. W. C. Fritz. No. 1,392,566; Oct. 4.
Incubators, Heater for. H. M. Sheer. No. 1,392,700; Oct. 4.
Indicator: *See*—
Direction-indicator. Station-indicator.
Inflatable fabric boat and bed or cushion. C. F. Smyth. No. 1,392,553; Oct. 4.
Instrument of precision. R. A. Aldeen and S. Hillman. No. 1,392,734; Oct. 4.
Interlocking device. A. Egnell. No. 1,392,630; Oct. 4.
Iron or steel plates, having hardened surfaces, Securing attachments to. W. L. Cole. No. 1,392,300; Oct. 4.
Jack: *See*—
Automobile-jack. Pump-jack.
Log-jack.
Jack and rim-contractor, Combined. F. C. Rhode. No. 1,392,355; Oct. 4.
Jewelry. C. G. Smith. No. 1,392,604; Oct. 4.
Joint: *See*—
Rail-joint. Universal joint.
Uniform-motion universal joint.
Journal-bearing. L. D. Gregg. No. 1,392,636; Oct. 4.
Key-ring clip. J. L. Bommer. No. 1,392,715; Oct. 4.
Keyhole-guard. L. R. Culver. No. 1,392,404; Oct. 4.
Kitchen utensil. F. G. Graber. No. 1,392,491; Oct. 4.
Ladder, Adjustable. G. J. Hebner. No. 1,392,642; Oct. 4.
Lamp bracket, Spotlight-. F. W. Reese. No. 1,392,850; Oct. 4.
Lamp, Electric. J. P. Nikonow. No. 1,392,441; Oct. 4.
Lantern. R. Lewis. No. 1,392,774; Oct. 4.
Lantern, Flagman's. C. L. Liken. No. 1,392,775; Oct. 4.
Lasting-machine. F. W. Merrick. No. 1,392,590; Oct. 4.
Lasts, Machine for shaping uppers over. B. Jorgensen. No. 1,392,856; Oct. 4.
Leader, Fair-. A. J. Johnston. No. 1,392,687; Oct. 4.
Level indicator and reserve-valve, Combined fluid-. H. Hastings. No. 1,392,415; Oct. 4.
Lever. O. F. H. Carlson. No. 1,392,299; Oct. 4.
Lever mechanism. N. Ayers. No. 1,392,618; Oct. 4.
License-certificate-display case. S. R. Seese. No. 1,392,661; Oct. 4.
Lifter: *See*—
Automobile-lifter.
Light: *See*—
Electric light.
Lineman's safety-chair. J. W. Davis. No. 1,392,820; Oct. 4.
Liquid-supply-tank gage, Pneumatic. P. S. Tice. No. 1,392,588; Oct. 4.
Litter-carrier. A. C. Perkins. No. 1,392,594; Oct. 4.
Lock: *See*—
Automobile lock. Window-lock.
Suitcase-lock.
Lock. W. McGill. No. 1,392,514; Oct. 4.
Lock. S. Segal. No. 1,392,707; Oct. 4.
Locomotive-condenser, Air-cooled. F. Ljungström. No. 1,392,511; Oct. 4.
Log-jack. P. E. Battelle. No. 1,392,885; Oct. 4.
Looms, Feeler mechanism for. E. A. and J. V. Cunniff. No. 1,392,817; Oct. 4.
Looms, Feeler mechanism for. E. A. and J. V. Cunniff. No. 1,392,818; Oct. 4.
Looms, Feeler mechanism for. I. Snow. No. 1,392,803; Oct. 4.
Looms, Feeler mechanism for. I. Snow. No. 1,392,804; Oct. 4.
Looms, Feeler mechanism for. I. Snow. No. 1,392,805; Oct. 4.
Looms, Feeler mechanism for. I. Snow. No. 1,392,806; Oct. 4.
Looms, Feeler mechanism for. I. Snow. No. 1,392,807; Oct. 4.
Lung-exercising device. H. M. Oyen. No. 1,392,700; Oct. 4.
Magazines, Machine for delivering. H. A. W. Wood. No. 1,392,471; Oct. 4.
Magneto-electric ignition-machine. F. Billon. No. 1,392,554; Oct. 4.
Manure-loader. A. R. Nelson. No. 1,392,653; Oct. 4.
Marker, Siding-. C. F. Shong. No. 1,392,710; Oct. 4.
Match-box. H. Maheux. No. 1,392,429; Oct. 4.
Matrices, Machine for shaping. L. H. Bachman. No. 1,392,621; Oct. 4.
Measuring and cutting apparatus. G. B. Heffelfinger. No. 1,392,871; Oct. 4.
Measuring and dispensing device, Combined. C. H. Genth and W. Kline. No. 1,392,490; Oct. 4.
Mechanical elements, Method of and means for generating. H. J. Schmick. No. 1,392,528; Oct. 4.
Mechanical movement. L. Anderson. No. 1,392,389; Oct. 4.
Mechanical movement. J. Krohn. No. 1,392,506; Oct. 4.
Mercerization. S. M. Jones and I. O. Harlow. No. 1,392,833; Oct. 4.
Metal articles, Apparatus for pickling. H. S. Marsh and R. S. Cochran. No. 1,392,781; Oct. 4.
Metal articles, Pickling. H. S. Marsh and R. S. Cochran. No. 1,392,780; Oct. 4.
Metal section, Rolled. A. L. Roberts. No. 1,392,800; Oct. 4.
Metals, Producing compound. J. C. Henderson. No. 1,392,416; Oct. 4.
Milk-boiler. J. Sloboda. No. 1,392,664; Oct. 4.
Milking-machine pulsator. J. L. Hulbert. No. 1,392,570; Oct. 4.
Mill: *See*—
Grinding-mill. Universal mill.
Milling-machines, Nut-keeper for. W. E. Durham. No. 1,392,681; Oct. 4.
Mining machinery. W. W. Robbins. No. 1,329,566; Oct. 4.
Mirror-support. G. F. and W. H. Colbert. No. 1,392,481; Oct. 4.
Mixer: *See*—
Drink-mixer. Dough-mixer.
Mold: *See*—
Tire-mold.
Molding-machine. J. B. Necsham. No. 1,392,697; Oct. 4.
Monkey-wrench, Quick-adjustable. F. E. Barts. No. 1,392,391; Oct. 4.
Mop. T. L. Bonsall. No. 1,392,741; Oct. 4.
Motor: *See*—
Hydrocarbon-motor. Starting induction-motor.
Music-recording mechanism, Indicating device usable with. J. C. Hagey and A. Swensen. No. 1,329,640; Oct. 4.
Musical instrument for teaching. W. H. Huth. No. 1,392,766; Oct. 4.
Needle, Hand-embroidery. A. F. Vorce. No. 1,392,542; Oct. 4.
Number-plates, Holder and illuminator for. H. J. Fisher and B. M. Wolf. No. 1,392,751; Oct. 4.
Oil-cock wrench. W. H. and A. D. Westman and J. N. Richards. No. 1,392,728; Oct. 4.
Oil-engine, Semidiesel. J. B. Cottard. No. 1,392,556; Oct. 4.
Oil-heater. G. F. Resnor. No. 1,392,525; Oct. 4.
Oils, Distilling petroleum-. F. B. Lewis and T. S. Cooke. No. 1,392,584; Oct. 4.
Oils, Gasifier for low-gravity. T. M. Taggart. No. 1,392,463; Oct. 4.
Ordnance, Apparatus for loading. H. W. Lee and J. W. Swindale. No. 1,392,683; Oct. 4.
Ore-washer. A. M. Gow. No. 1,392,413; Oct. 4.

Ores, mineral stones, &c., Machine for grinding. J. R. Broadley. No. 1,392,837; Oct. 4.
Palatal bar. H. Aderer. No. 1,392,612; Oct. 4.
Pan: *See*—
Dustpan.
Paper tape, Apparatus for dispensing and printing. A. H. Marshall. No. 1,392,602; Oct. 4.
Pen or pencil holder. J. Amato. No. 1,392,388; Oct. 4.
Pen, Self-filling fountain-. E. Hugets. No. 1,392,589; Oct. 4.
Pen, self-filling fountain-. H. Lewinson. No. 1,392,837; Oct. 4.
Pen, self-filling fountain-. H. Lewinson. No. 1,392,838; Oct. 4.
Pens, Filling device for fountain-. E. Perine. No. 1,392,860; Oct. 4.
Pencil attachment. H. E. Watkins. No. 1,392,468; Oct. 4.
Phenols and formaldehyde and making same, Composite article including. W. D. Stevenson. No. 1,392,535; Oct. 4.
Phonograph-reproducers. O. R. Marsh. No. 1,392,480; Oct. 4.
Phonographs, Balance-weight-cover support for. A. & M. Berrted. No. 1,392,290; Oct. 4.
Phonographs, Reproducer for. J. A. Brown. No. 1,392,677; Oct. 4.
Photo-film clip. L. F. McKelvey and J. A. Brandenburger. No. 1,392,516; Oct. 4.
Photoprinting device. H. G. Eisenhand. No. 1,392,312; Oct. 4.
Pianos, Detachable keyboard for transposing music on. L. Tow. No. 1,392,883; Oct. 4.
Pianos, Pianissimo device for grand. J. A. Hussey. No. 1,392,231; Oct. 4.
Picture apparatus, Motion-. G. W. Bingham. No. 1,392,475; Oct. 4.
Pipe-hanger, Adjustable. L. R. Zifferer. No. 1,392,810; Oct. 4.
Piston-ring. P. A. Anderson. No. 1,392,614; Oct. 4.
Piston-ring. W. W. Syfert. No. 1,392,536; Oct. 4.
Piston-ring assemblage. S. T. Doyle and J. L. Dice. No. 1,392,308; Oct 4.
Piston-wrist-pin construction. F. F. Davis. No. 1,392,819; Oct. 4.
Pitch, Process and apparatus for coking. F. Puening. No. 1,392,879; Oct. 4.
Plow. J. F. Hampson. No. 1,392,685; Oct. 4.
Plow and pulverizer. A. P. Merrill. No. 1,392,845; Oct. 4.
Plow-beam brace. C. E. Peterson. No. 1,392,444; Oct. 4.
Plug, Casing-. R. C. Baker. No. 1,392,619; Oct. 4.
Pole-mounting. R. G. Williams. No. 1,392,730; Oct. 4.
Post. L. G. Haase. No. 1,392,577; Oct. 4.
Power-agitator. R. G. Lowe. No. 1,392,345; Oct. 4.
Power-applying machine, Double compound. J. A. Bosung and P. S. McMahon. No. 1,392,295; Oct. 4.
Power-transmission device. W. D. Mount. No. 1,392,848; Oct. 4.
Power-transmitting mechanism. B. B. Neuteboom. No. 1,392,439; Oct. 4.
Press: *See*—
Printing-press. Swaging and forging press.
Pressed steel wheel. W. E. Williams. No. 1,392,880; Oct. 4.
Pressed steel wheel, Flanged disk. W. E. Williams. No. 1,392,881; Oct. 4.
Presses, Safety-guard for. H. Osswald. No. 1,392,609; Oct. 4.
Pressure-gage. A. B. Low. No. 1,392,587; Oct. 4.
Printing-plate holder. E. B. Strawn. No. 1,392,896; Oct. 4.
Printing plates, Making rails for. W. G. Imlach. No. 1,392,502; Oct. 4.
Printing press, Insert-. H. A. W. Wood. No. 1,392,469; Oct. 4.
Propelling apparatus, Variable-direction. R. S. Hedtler and M. R. Taylor. No. 1,392,763; Oct. 4.
Puller: *See*—
Staple-puller.
Pulley. C. A. Stoner. No. 1,392,717; Oct. 4.
Pulsating mechanism. H. McCormack. No. 1,392,846; Oct. 4.
Pump. L. Anderson. No. 1,392,390; Oct. 4.
Pump. B. O. Wones. No. 1,392,670; Oct. 4.
Pump control, Automatic. J. T. Vine. No. 1,392,872; Oct. 4.
Pump-jack. J. N. Edwards. No. 1,392,310; Oct. 4.
Pump, Tire-. F. Hjorth. No. 1,392,829; Oct. 4.
Puncture-proof inner tube. R. R. Lloyd. No. 1,392,894; Oct. 4.
Rack-cleaning device. I. W. Jones. No. 1,392,647; Oct. 4.
Radiator, Hot-water. J. N. Hardy, H. D. Wilson, and D. S. Long. No. 1,392,801; Oct. 4.
Rail-anchor. O. R. Barnett. No. 1,392,288; Oct. 4.
Rail-anchor. E. Faries. No. 1,392,407; Oct. 4.
Rail, Extension-. T. Quinn. No. 1,392,868; Oct. 4.
Rail-joint. D. P. Parker. No. 1,392,790; Oct. 4.
Railway-car end. G. A. Woodman. No. 1,392,472; Oct. 4.
Railway-carriage of large capacity. G. Pereira and G. Jolivet. No. 1,392,528; Oct. 4.
Railway-switches, Apparatus for the control of. C. R. Beall. No. 1,392,737; Oct. 4.
Railway-tie. E. Waters. No. 1,392,376; Oct. 4.
Railway-tie and rail-fastener. C. E. Estabrook. No. 1,392,562; Oct. 4.
Railway-track extension, Means for. J. F. Joy. No. 1,392,648; Oct. 4.
Range, Cooking-. E. P. Cole. No. 1,392,482; Oct. 4.
Razor-blade sharpener. D. B. Perkins. No. 1,392,701; Oct. 4.
Razor-blade sharpener. I. W. Prestorius. No. 1,392,793; Oct. 4.
Razor-blades, Stropping or sharpening apparatus for. S. B. Earle. No. 1,392,309; Oct. 4.
Razor, Safety-. V. F. Franck. No. 1,392,753; Oct. 4.
Reatomizer. F. O. Ball. No. 1,392,473; Oct. 4.
Receptacle. S. R. De Long. No. 1,392,559; Oct. 4.
Reel: *See*—
Fishing-reel.
Register for lineal measuring. E. Ek. No. 1,392,573; Oct. 4.
Registers, Brake for lineal-measuring. E. Ek. No. 1,392,572; Oct. 4.
Reinforced spring. G. Tremolada. No. 1,392,540; Oct. 4.
Relay, Balancing-. W. E. Brantigan. No. 1,392,742; Oct. 4.
Reseating attachment. A. C. Lindholm. No. 1,392,585; Oct. 4.
Rim, Demountable. E. G. Blue. No. 1,392,292; Oct. 4.
Ring: *See*—
Piston-ring. Rotary packing-ring.
Riveting-machine, Automatic. F. J. Greene. No. 1,392,494; Oct. 4.
Roads, Grading roadbeds for concrete. R. D. Baker. No. 1,392,674; Oct. 4.
Roll, Stock-. W. F. Gammeter. No. 1,392,321; Oct. 4.
Roof structure, Trussed-. W. J. Summerbell. No. 1,392,882; Oct. 4.
Roofing and apparatus used in connection therewith, Making prepared. O. A. Heppes and E. E. Rahr. No. 1,392,498; Oct. 4.
Rope, Apparatus for making ornamental. C. A. Reed. No. 1,392,795; Oct. 4.
Roller: *See*—
Water-cooled glass-roller.
Ruling-machines, Pen-clamp for. H. E. Lindbladh. No. 1,392,423; Oct. 4.
Sand and gravel washer. J. J. McManamen, C. F. Smith, and A. L. Munro. No. 1,392,779; Oct. 4.
Sand, Depositing. J. R. Sensibar. No. 1,392,663; Oct. 4.
Saw, Endless. T. A. Jackson. No. 1,392,808; Oct. 4.
Saw guard, Circular-. J. H. Burke. No. 1,392,356; Oct. 4.
Saw-set. J. W. Ingleton. No. 1,392,644; Oct. 4.
Scale, Weighing-. H. O. Hem. No. 1,392,827; Oct. 4.
Scales, Signal for weighing-. E. G. Thomas. No. 1,392,806; Oct. 4.
Screen: *See*—
Window-screen.
Screwdriver attachment. P. Reinhalter. No. 1,392,796; Oct. 4.
Screw-thread gage. G. S. Sallow. No. 1,392,813; Oct. 4.
Selection, Method and means of. C. E. Underhill. No. 1,392,609; Oct. 4.
Serving-machine. V. P. Adams. No. 1,392,611; Oct. 4.
Sewer's gage. P. C. Sieger. No. 1,392,455; Oct. 4.
Sewing-machine. A. E. Lyon. No. 1,392,822; Oct. 4.
Sewing-machine attachment. W. W. Hirk. No. 1,392,872; Oct. 4.
Shade and curtain hanger. S. O. Dougherty. No. 1,392,405; Oct. 4.
Shade-roller support. J. E. McCloskey. No. 1,392,512; Oct. 4.
Shades and curtains, Supporting and stretching bracket for. L. Gladish. No. 1,392,575; Oct 4.
Shaft, Collapsible. H. T. Rice. No. 1,392,798; Oct. 4.
Shell, Expansion-. J. H. Phillips. No. 1,392,703; Oct. 4.
Ship-lock lift. F. Gremmels. No. 1,392,538; Oct. 4.
Ships, Means for mooring. F. W. B. Walton. No. 1,392,668; Oct. 4.
Ship's porthole, scuttle, &c. C. Lauprètre. No. 1,392,771; Oct. 4.
Ships, Steering-gear for. H. Brousseau. No. 1,392,894; Oct. 4.
Shock-absorber. A. G. Witt. No. 1,392,386; Oct. 4.
Shoe, Athletic. G. L. Pierce. No. 1,392,704; Oct. 4.
Shoe attachment. F. L. Kryder. No. 1,392,679; Oct. 4.
Shoe-holding stand. J. J. Brentano. No. 1,392,393; Oct. 4.
Shoe-retainer. J. A. Drechsler. No. 1,392,628; Oct. 4.
Shoes, Ventilator for. D. M. O'Brien. No. 1,392,350; Oct. 4.
Sheet metal, Magazine for blanks of. H. A. Fink. No. 1,392,750; Oct. 4.
Sign-letter. P. O. Grove. No. 1,392,639; Oct. 4.
Signal: *See*—
Automobile-signal. Steam-boiler low-water signal.
Direction-indicating signal.
Signaling system. B. L. Bobroff. No. 1,392,293; Oct. 4.
Skiving-machine. E. J. Ray. No. 1,392,596; Oct. 4.
Slag-furnace. E. E. James. No. 1,392,504; Oct. 4.
Sled. G. F. Mish. No 1,392,783; Oct. 4.
Sleigh attachment for autos. N. O. Nelson. No. 1,392,438; Oct. 4.
Sleigh suspension, Automobile-. A. Kégresse. No. 1,392,688; Oct. 4.
Snowplow. H. J. Bebow. No. 1,392,739; Oct. 4.
Snow-removing machine. E. C. Midgley. No. 1,392,877; Oct. 4.
Soap-dispenser. W. H. Rose. No. 1,392,601; Oct. 4.
Soap dispenser, Liquid-. W. H. Rose. No. 1,392,600; Oct. 4.
Socket and reflector. E. M. Larkins. No. 1,392,510; Oct. 4.
Soda, Manufacture of caustic. C. Cramer. No. 1,392,814; Oct. 4.
Sole-channeling cutter. R. R. Lerevers. No. 1,392,422; Oct. 4.
Soles, Machine for trimming. J. H. Richardson. No. 1,392,799; Oct. 4.
Solids and liquids and of cracking solids, liquids, and gases, Distilling. A. J. Paris, Jr. No. 1,392,788; Oct. 4.
Spark-plug. D. S. Henney. No. 1,392,329; Oct. 4.
Spinning, twisting, doubling, and like frames, Thread-guide of. G. F. Bull. No. 1,392,743; Oct. 4.
Spring: *See*—
Reinforced spring. Vehicle-spring.
Spring suspension system. A. F. Shore. No. 1,392,603; Oct. 4.
Spring-wheel. H. L. Bush and A. J. Bryan. No. 1,392,813; Oct. 4.
Spring-wheel. W. H. Smith. No. 1,392,859; Oct. 4.
Sprinkler: *See*—
Automatic sprinkler.
Sprinkler, Automatic. R. W. Newton. No. 1,392,593; Oct. 4.
Stamping-machine, Electrically-heated. J. Bilb. No. 1,392,553; Oct. 4.
Stand: *See*—
Folding-stand. Shoe-holding stand.
Staple-puller. G. L. Hunter. No. 1,392,795; Oct. 4.
Starting induction-motor. J. Bruncken. No. 1,392,555; Oct. 4.
Station-indicator. L. H. Stroud. No. 1,392,718; Oct. 4.
Steam-boiler-compound feeder. E. H. Tuttle, J. C. Miller, and T. C. Baldwin. No. 1,392,862; Oct. 4.
Steam-boiler low-water signal. C. E. Fuller. No. 1,392,682; Oct. 4.
Steam-boilers, Economizer for. J. E. Bell. No. 1,392,675; Oct. 4.
Steam-generator. A. E. Snow. No. 1,392,866; Oct. 4.
Steamships, Feed-water system for. C. E. Lang. No. 1,392,341; Oct. 4.
Steering-gear. D. W. Jones. No. 1,392,646; Oct. 4.
Stereoscope, Folding. J. M. Hattersley. No. 1,392,327; Oct. 4.
Stitching mechanism, &c., Controlling device for. G. E. Molyneux. No. 1,392,606; Oct. 4.
Stirrup, Safety-. B. Baker. No. 1,392,673; Oct. 4.
Storage batteries, &c., Filling apparatus for. L. H. Flanders. No. 1,392,632; Oct. 4.
Store-fixtures, Arrangement and construction of self-service. L. A. Hill. No. 1,392,418; Oct. 4.
Stovepipe-holder. J. McCoy. No. 1,392,841; Oct. 4.
Stoves, Burner for. H. B. Hemphill. No. 1,392,643; Oct. 4.
Strainer. W. B. Wills. No. 1,392,383; Oct. 4.
Structure, Expansible and contractible. J. A. Weis. No. 1,392,660; Oct. 4.
Sugar-cane cutter. M. Wertheim. No. 1,392,877; Oct. 4.
Suitcase-lock. E. H. Shaff. No. 1,392,531; Oct. 4.
Swaging and forging press. L. W. Heath and H. D. Cook. No. 1,392,328; Oct. 4.
Sweatband. C. M. Tipograph. No. 1,392,589; Oct. 4.
Sweetmeats, &c., Machine for wrapping. H. Hackett, A. Smith, and C. Southall. No. 1,392,683; Oct. 4.
Switch: *See*—
Electric switch.
Switch. L. S. Gutliff. No. 1,392,665; Oct. 4.
T-square. H. N. Gahan. No. 1,392,766; Oct. 4.
Table: *See*—
Extension-table.
Tag. T. R. Gaines. No. 1,392,410; Oct. 4.
Tag-holder. J. W. Wuensch. No. 1,392,548; Oct. 4.
Tag, Identifying-. E. S. Blackburn. No. 1,392,291; Oct. 4.
Talking-machines, Sound-conveyer for. W. D. Pfrommer and F. A. Adams. No. 1,392,554; Oct. 4.
Tape cutter and moistener, Gum-. R. I. Ross. No. 1,392,358; Oct. 4.
Tapping-block. O. W. Berggren. No. 1,392,740; Oct. 4.
Taximeter. H. K. E. Lübcke. No. 1,392,895; Oct. 4.
Taximeter, Printing-. W. Eisenschmid. No. 1,392,631; Oct. 4.
Teeth, Clasp for. E. R. Nebeling. No. 1,392,784; Oct. 4.
Telegraphy. K. C. Cox. No. 1,392,302; Oct. 4.
Telephone device, Sanitary. W. W. Lukenbach. No. 1,392,840; Oct. 4.
Telephone system, Selective. R. C. M. Hastings. No. 1,392,762; Oct. 4.
Terne plates, Method and apparatus for making. J. R. McElhaney. No. 1,392,586; Oct. 4.
Thermostat. E. B. Lane. No. 1,392,340; Oct. 4.
Throttles, Safety device for. W. W. Sykes. No. 1,392,537; Oct. 4.
Thyroid product and preparing the same. E. C. Kendall. No. 1,392,767; Oct. 4.
Thyroid substance and making it. E. C. Kendall. No. 1,392,768; Oct. 4.
Ticket holder, Price-. G. A. Berry. No. 1,392,622; Oct. 4.
Tie: *See*—
Railway-tie.
Tie-plate. G. L. Adams. No. 1,392,733; Oct. 4.
Tie-plate and rail-fastener. W. A. Butler. No. 1,392,398; Oct. 4.

Tightening device, Pitman-. C. E. Griner. No. 1,392,760; Oct. 4.
Time-card, pay-envelop, and daily-production record. M. Adler. No. 1,392,613; Oct. 4.
Timepieces, Mainspring-barrel for. H. A. Borresen. No. 1,392,676; Oct. 4.
Tire-blow-out clamp and emergency mud-hook. C. T. Lippold. No. 1,392,425; Oct. 4.
Tire-carrier. R. C. Kissinger. No. 1,392,507; Oct. 4.
Tire-casing treads and removing beads, Machine for cutting. C. D. Hibbs. No. 1,392,330; Oct. 4.
Tire-mold. J. R. Earp. No. 1,392,487; Oct. 4.
Tire, Pneumatic. H. Ryder. No. 1,392,853; Oct. 4.
Tire, Resilient. J. M. Abrams. No. 1,392,671; Oct. 4.
Tire, Resilient. J. M. Abrams. No. 1,392,672; Oct. 4.
Tire, Resilient. R. H. Bowman. No. 1,392,574; Oct. 4.
Tire, Spring-. W. G. Wagner. No. 1,392,667; Oct. 4.
Tire-tool. O. Mobley. No. 1,392,591; Oct. 4.
Tire, Wheel-. T. Bagnell. No. 1,392,736; Oct. 4.
Tire, Wheel-. F. C. Miller. No. 1,392,433; Oct. 4.
Tires, Manufacturing. J. C. Tuttle. No. 1,392,608; Oct. 4.
Tires, Manufacturing solid. D. E. Goodenberger. No. 1,392,576; Oct. 4.
Tires, Valve control for pneumatic. J. N. Newsom. No. 1,392,440; Oct. 4.
Tool-handle. J. P. Doman. No. 1,392,627; Oct. 4.
Tool, Rethreading-. D. S. Rhodes. No. 1,392,705; Oct. 4.
Tools, &c., Suspending device for. H. Seidomridge. No. 1,392,530; Oct. 4.
Toy animal. M. Waterman. No. 1,392,725; Oct. 4.
Toy, Balloon. J. Tabacco. No. 1,392,381; Oct. 4.
Toy boat. A. B. Davis. No. 1,392,484; Oct. 4.
Toy duck. A. B. Davis. No. 1,392,485; Oct. 4.
Toy, Mechanical. C. L. Welsh. No. 1,392,727; Oct. 4.
Toy vehicle. J. M. Kramlich. No. 1,392,834; Oct. 4.
Track-roadbed and forming same, S. G. Howe. No. 1,392,500; Oct. 4.
Traction-engine. M. H. Lang. No. 1,392,421; Oct. 4.
Tractor-hitch. C. A. and E. B. Wise. No. 1,392,864; Oct. 4.
Tractor transmission. S. Clifton. No. 1,392,865; Oct. 4.
Tractor-tread. R. P. Hicks. No. 1,392,417; Oct. 4.
Tractor-treads, Grouser for. F. H. Meyer. No. 1,392,698; Oct. 4.
Tractor wheel and gear, Self-cleaning. S. Clifton. No. 1,392,866; Oct. 4.
Trains or cars, Safety apparatus for. W. O. Batts. No. 1,392,629; Oct. 4.
Transmission-bearing and universal-joint cap. G. E. Ruckstell. No. 1,392,452; Oct. 4.
Transmission lines, Method of and means for detecting irregularities in. G. Crisson. No. 1,392,815; Oct. 4.
Trap: *See*—
Animal-trap.
Trap. J. Skarzynski. No. 1,392,666; Oct. 4.
Tricycle. G. A. Olsen. No. 1,392,848; Oct. 4.
Trolley. M. D. Dominguez. No. 1,392,560; Oct. 4.
Trolley-mount. H. J. and E. F. Murphy. No. 1,392,846; Oct. 4.
Truck. A. J. Wood. No. 1,392,387; Oct. 4.
Truck construction, Extendible. H. R. Bruab. No. 1,392,395; Oct. 4.
Truck, Mining-machine. N. D. Levin. No. 1,392,835; Oct. 4.
Truck, Mining-machine. N. D. Levin. No. 1,392,836; Oct. 4.
Tube: *See*—
Puncture-proof inner tube.
Tube and making the same, Capillary. A. Roesch. No. 1,392,655; Oct. 4.
Tube, Inner. W. P. Gordon and T. B. Jacocks. No. 1,392,826; Oct. 4.
Two-stroke-cycle engine. C. Rudqvist. No. 1,392,359; Oct. 4.
Typewriter-desk. F. M. Clough. No. 1,392,744; Oct. 4.
Typewriter-ribbon. H. S. Stark. No. 1,392,458; Oct. 4.
Typewriting-machine. J. Felbel. No. 1,392,403; Oct. 4.
Typewriting-machine. G. A. Seib. No. 1,392,362; Oct. 4.
Typographical machines, Line-stop for. E. W. Pierson. No. 1,392,702; Oct. 4.
Uniform-motion universal joint. W. J. Francke. No. 1,392,754; Oct. 4.
Universal joint. A. M. Laycock. No. 1,392,342; Oct. 4.
Universal mill. H. R. Geer. No. 1,392,489; Oct. 4.
Unloading device. W. E. Jones. No. 1,392,419; Oct. 4.
Vacuum-cleaner. G. Clementa. No. 1,392,624; Oct. 4.
Vacuum-cleaner. W. C. Johnston. No. 1,392,874; Oct. 4.
Valve. E. C. Bowden-Smith. No. 1,392,294; Oct. 4.
Valve. M. S. Bailey. No. 1,392,354; Oct. 4.
Valve. P. F. Willis. No. 1,392,547; Oct. 4.
Valve, Automatic regulating-. A. B. Johnson. No. 1,392,334; Oct. 4.
Valve, Electropneumatic. E. Wiet and F. Chittenden. No. 1,392,544; Oct. 4.
Valve-lifting device. J. E. Wainwright. No. 1,392,878; Oct. 4.
Valve packing-ring, Rotary-. F. E. Foulke. No. 1,392,752; Oct. 4.
Valve, Pressure-regulating. E. J. Augustin. No. 1,392,617; Oct. 4.
Valve-tubes, Cap for. D. H. Cox. No. 1,392,746; Oct. 4.
Valves of compression-cocks and the like, Valve-stem for the. J. H. Gevin. No. 1,392,411; Oct. 4.

Vanadium from solutions, Recovering. L. S. Copelin. No. 1,392,745; Oct. 4.
Vehicle-fender. M. B. Dimin. No. 1,392,625; Oct. 4.
Vehicle-spring. J. C. Dowd. No. 1,392,650; Oct. 4.
Vehicles, Cut-off for gasolene-feed on motor-. B. W. Richards. No. 1,392,449; Oct. 4.
Vehicles, Drive for motor-. A. F. Masury. No. 1,392,517; Oct. 4.
Vehicles, Headlight for. F. O. and P. A. Linstrom. No. 1,392,424; Oct. 4.
Vehicles, Propulsion means for. W. H. French. No. 1,392,585; Oct. 4.
Vehicles, Road-wheel for. S. O. Williams. No. 1,392,545; Oct. 4.
Vehicles, Suspension for. O. C. Rixson. No. 1,392,556; Oct. 4.
Vehicles, Theft-signal for motor-. M. J. Downey. No. 1,392,589; Oct. 4.
Vehicles, Transmission-control device for motor-. S. W. Finch and R. M. Kennard. No. 1,392,516; Oct. 4.
Vessels, Auxiliary apparatus for steering. A. M. Nicolson. No. 1,392,786; Oct. 4.
Vessels, Method and apparatus for steering. A. M. Nicolson. No. 1,392,787; Oct. 4.
Vise. R. M. Miller. No. 1,392,434; Oct. 4.
Vulcanizer. W. E. Johnson. No. 1,392,645; Oct. 4.
Wagon, Dump-. P. A. Petersen. No. 1,392,445; Oct. 4.
Wall construction, Building-. E. C. Cottman. No. 1,392,668; Oct. 4.
Wall, Wharf-. T. Aston. No. 1,392,616; Oct. 4.
Walls, Apparatus for facilitating the cutting of recesses in. R. F. Beatie. No. 1,392,590; Oct. 4.
Washclothes, Attachment for. J. I. Steen. No. 1,392,460; Oct. 4.
Washer: *See*—
Ore-washer. Sand and gravel washer.
Washers and the like, Door structure for air-. A. A. Day. No. 1,392,605; Oct. 4.
Water-conducts, Balanced closing device for. F. Grassmola. No. 1,392,637; Oct. 4.
Water-cooled glass-roller. W. Cox. No. 1,392,626; Oct. 4.
Water, Purifying and clarifying of. M. Puiggari and N. Vennin. No. 1,392,524; Oct. 4.
Water-wheel. J. King. No. 1,392,662; Oct. 4.
Waterer, Hog-. W. A. McCullough. No. 1,392,513; Oct. 4.
Waterproof roofing, Machine for making flexible. R. H. Goldberg. No. 1,392,525; Oct. 4.
Weaving-machine. J. L. Reynolds. No. 1,392,657; Oct. 4.
Weighing apparatus. B. A. Roper and J. W. Hartley No. 1,392,659; Oct. 4.
Wheel: *See*—
Pressed steel wheel. Water-wheel.
Spring-wheel.
Wheel. F. H. Stafford. No. 1,392,567; Oct. 4.
Wheel and shafts. J. C. Hudson. No. 1,392,501; Oct. 4.
Wheel drive, Four-. R. D. Smith and A. Christopherson. No. 1,392,695; Oct. 4.
Whistle-operating connection. J. B. Lamoine and C. W. O'Neal. No. 1,392,775; Oct. 4.
Window and door securer. C. A. Topp. No. 1,392,467; Oct. 4.
Window-lock. E. B. Johnson. No. 1,392,535; Oct. 4.
Window-screen. C. Eschon. No. 1,392,706; Oct. 4.
Windows, Fastener for adjustable. J. Stoch. No. 1,392,606; Oct. 4.
Windshield construction. E. G. Simpson. No. 1,392,690; Oct. 4.
Windshield-protector. J. Bedard. No. 1,392,474; Oct. 4.
Wire-bending apparatus. J. D. Smith. No. 1,392,713; Oct. 4.
Wire-mesh fabricated materials, Wire-inserting mechanism for. J. D. Smith. No. 1,392,714; Oct. 4.
Wooden surfaces, Electrically-operated machine for scraping irregular. I. A. Watrous. No. 1,392,543; Oct. 4.
Wrench: *See*—
Monkey-wrench. Oil-cock wrench.
Wrench. C. F. Fletcher. No. 1,392,518; Oct. 4.
Wrench. A. W. Mimsey. No. 1,392,681; Oct. 4.
Wrench. A. W. Mimsey. No. 1,392,682; Oct. 4.
Wrench. W. Petersen. No. 1,392,443; Oct. 4.
Wringer device. P. W. Carroll. No. 1,392,476; Oct. 4.
Yarn, Device for guiding, clearing, and tensioning. J. O. McKean. No. 1,392,515; Oct. 4.

ALPHABETICAL LIST OF DESIGNS.

Advertising device. F. Merriman. No. 59,253; Oct. 4.
Automobile-casing tread. C. H. McCormick. No. 59,245; Oct. 4.
Bodies or bottom. R. I. Reed. No. 59,264; Oct. 4.
Bodies, pile-, cushion, or similar article. A. E. Millard. No. 59,254; Oct. 4.
Battery-case. H. Davis and W. H. Holland. No. 59,259; Oct. 4.
Boiler, Alcoholgas double. E. A. Church. No. 59,196; Oct. 4.
Bottle. M. G. Vilbisch. No. 59,269; Oct. 4.
Bottle-stopper. J. F. Casey. No. 59,257; Oct. 4.
Bowl or similar article. G. Haviland. No. 59,218; Oct. 4.
Box or container. C. E. Scott. No. 59,250; Oct. 4.
Button. G. H. Bugbee. No. 59,209; Oct. 4.
Cabinet-case. E. Lyon. No. 59,243; Oct. 4.
Candlestick. F. H. La France. No. 59,241; Oct. 4.
Case, having compartments for stationery supplies, Portable. E. C. Peterson. No. 59,270; Oct. 4.
Casket, Burial-. F. E. Sullins. No. 59,230; Oct. 4.
Ceiling-beam, Electrical receptacle for. F. Hartmann. No. 59,216; Oct. 4.
Chain, Watch-. E. Van Dobben. No. 59,202; Oct. 4.
Chair, stool, or similar article, Metallic. F. H. Hendley. Nos. 59,223–5; Oct. 4.
Charm. N. Lieberthsmid. No. 59,249; Oct. 4.
Charm or pendant. M. L. Goldstein. No. 59,211; Oct. 4.
Check, Bank-. E. P. Richards. No. 59,252; Oct. 4.
Comb and brush holder. A. P. Polanchych. No. 59,260; Oct. 4.
Cup or similar article. G. Haviland. No. 59,219; Oct. 4.
Dental implement. J. H. Kellogg. No. 59,220; Oct. 4.
Desk set. F. J. Flynn. Nos. 59,274–6; Oct. 4.
Dish or similar article. G. Haviland. No. 59,217; Oct. 4.
Dolly. R. Holzer. No. 59,227; Oct. 4.
Doll. P. Fynn. No. 59,210; Oct. 4.
Doll. C. T. McEnery. No. 59,246; Oct. 4.
Doll. M. Macdonald. No. 59,242; Oct. 4.
Doll. D. Read. No. 59,262; Oct. 4.
Doll. M. Schoen. No. 59,269; Oct. 4.
Doll, Brownie. F. C. Hamill. No. 59,215; Oct. 4.
Doll's costume. E. E. Clark and L. E. Neuer. No. 59,193; Oct. 4.
Door-bumper. S. B. Atwood. No. 59,173; Oct. 4.
Fabric or similar article, Textile. L. Biva. Nos. 59,177–9; Oct. 4.
Fabric or similar article, Textile. A. Frati. Nos. 59,208–9; Oct. 4.
Fabric, Textile. J. H. Bunting. Nos. 59,183–5; Oct. 4.
Fan and heating device, Electric. G. Graff and W. A. Kennedy. No. 59,214; Oct. 4.
Fishing pole and reel, Combined. M. S. Dunkelberger. No. 59,204; Oct. 4.
Flashlight. W. B. Stephenson. No. 59,261; Oct. 4.
Flower-holder. F. Carder. No. 59,166; Oct. 4.
Fur garment, Child's one-piece. S. S. Samuels. No. 59,255; Oct. 4.
Furnace. W. J. Hayman, Jr. No. 59,220; Oct. 4.
Furnace, Refractory floor member for electric. F. W. Mollat. No. 59,265; Oct. 4.
Furnace, Refractory roof member for electric. F. W. Mollat. No. 59,267; Oct. 4.
Glass dish, Transparent. G. D. Sailer. No. 59,237; Oct. 4.
Glass-cutter. V. H. Carleton. No. 59,189; Oct. 4.
Glove-cover. L. Anderson. No. 59,172; Oct. 4.
Gun and mask grip. J. W. Hopkins. No. 59,181; Oct. 1.
Hair pin. H. Mosher. No. 59,231; Oct. 4.
Hanger. L. Jones. No. 59,221; Oct. 4.
Hanger, spring. [illegible]. No. 59,235; Oct. 4.
Heater, water-. C. J. Belden. No. 59,191; Oct. 4.
Hosiery drying and shaping structure. J. H. Kelly. No. 59,251; Oct. 4.
Ice-creeping plate. J. Thill. No. 59,268; Oct. 4.
Iron, Smoothing. A. Rowland. No. 59,238; Oct. 4.
Jewel, [illegible], semiprecious, or synthetic. H. D. Stasi. Nos. 59,277–8; Oct. 4.
Jewelry—namely, a finger-ring or similar article. I. H. Lapham. No. 59,222; Oct. 4.
Jewelry—namely, a finger-ring or similar article. F. Kolde. No. 59,216; Oct. 4.
Lace. W. Degenhardt. Nos. 59,203–3; Oct. 4.
Lace. G. Holt. No. 59,228; Oct. 4.
Lace. T. Marsh. Nos. 59,232–33; Oct. 4.
Lace. A. H. Page. Nos. 59,233–7; Oct. 4.
Lace. H. A. Phillips. Nos. 59,271–5; Oct. 4.
Lace. G. Rabbett. No. 59,281; Oct. 4.
Lamp. F. S. Crowell. No. 59,197; Oct. 4.
Light, Automobile parking-. W. Leuchert. No. 59,239; Oct. 4.
Light for automobiles, &c., Cowl-. A. R. Green. Nos. 59,212–13; Oct. 4.
Mail-box. E. T. Pennig. No. 59,263; Oct. 4.
Meat-cutting machine, Frame for a. W. R. Woods and J. F. Langston. No. 59,215; Oct. 4.
Meat-loaf-cooker receptacle. H. Adelmann. No. 59,171; Oct. 4.
Medallion. C. A. Stuart. No. 59,802; Oct. 4.
Mirror, brush, or similar article, Back of a. F. H. La Pierre. No. 59,257; Oct. 4.
Mitten, Novelty. C. G. Bujarsky. No. 59,182; Oct. 4.
Paper doll. F. Benson. Nos. 59,178–9; Oct. 4.
Pastry-lifter. W. G. Wilson. No. 59,214; Oct. 4.
Picture, mirror, or like frame. A. Swientek. No. 59,263; Oct. 4.
Plate and similar article. M. M. Engelhardt. No. 59,265; Oct. 4.
Powder and other commodities, Receptacle for toilet. L. A. Wereasar. No. 59,211; Oct. 4.

Power plant. L. B. and E. W. Jones and R. G. Battin. No. 59,228; Oct. 4.
Precious, semiprecious, or synthetic stone or imitation thereof. J. Kraus. Nos. 59,223–5; Oct. 4.
Radiator, Refrigerating-. A. Kohn. No. 59,229; Oct. 4.
Razor-blade. H. P. MacLagan. No. 59,243; Oct. 4.
Ring. V. H. Cohn. Nos. 59,195–6; Oct 4.
Ring. W. L. Steffen. No. 59,200; Oct. 4.
Ring, Finger-. J. L. Chambers. No. 59,188; Oct 4.
Ring, Finger-. J. Winson. No. 59,214; Oct. 4.
Ring or similar article. J. W. Mayer. Nos. 59,249–52; Oct. 4.
Rosary. G. Thibault. No. 59,206; Oct. 4.
Scraper and parer, Vegetable. J. McNaughton. No. 59,248; Oct. 4.
Shade, reflector, or similar article for a lighting-fixture. J. Doyle. No. 59,201; Oct. 4.
Statuette. M. P. D. Fortune. No. 59,207; Oct. 4.
Steamer. H. Dalits. No. 59,198; Oct 4.
Strainer, Milk-. F. D. Kincaid. No. 59,232; Oct. 4.
Tablet, Candy. T. D. Richardson. No. 59,285; Oct. 4.
Tag. J. J. Collins. No. 59,194; Oct. 4.
Teakettle, Aluminum. H. A. Church. Nos. 59,190–1; Oct. 4.
Ticking, Mattress-. E. Sonntag, Jr. Nos. 59,292–6; Oct. 4.
Tire. J. Tenney, Jr. Nos. 59,304–5; Oct. 4.
Tire-casing. R. D. Belden. No. 59,174; Oct. 4.
Tire-tread. A. L. Breitenstein. No. 59,180; Oct. 4.
Tire-tread. W. H. Paull. No. 59,268; Oct. 4.
Tire-tread. W. F. Wiley and A. Reinsberg. No. 59,312; Oct. 4.
Tire tread, Pneumatic-. R. M. Pierson. No. 59,273; Oct. 4.
Tire, Vehicle-. R. H. Waters. No. 59,310; Oct. 4.
Vase, Flower-. L. H. Hirsch. No. 59,224; Oct. 4.
Watch-fob. J. J. McAvoy. No. 59,244; Oct. 4.
Watchcase-bow. J. McGrevy. No. 59,247; Oct. 4.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Antiseptic ointment. W. F. Severa Co. No. 147,164; Oct. 4.
Apple-butter, jam, &c. Temtor Corn & Fruit Products Co. No. 147,178; Oct. 4.
Attrition-mills. Engelberg Huller Company. No. 147,211; Oct. 4.
Automobile-pedals. G. I. Stadeker. No. 147,249; Oct. 4.
Baking-powder. B. Heller and Company. No. 147,220; Oct. 4.
Barley-malt extract. Wander Company. No. 147,184; Oct. 4.
Bedspreads. Marshall Field & Company. No. 147,127; Oct. 4.
Beverage, Compound for making. Dunne-McCord Company. No. 147,088; Oct. 4.
Bread. G. Gandolfo. No. 147,090; Oct. 4.
Burners, Oil and gas. Oliver Oil-Gas Burner & Machine Co. No. 147,242; Oct. 4.
Butter. Nashville Pure Milk Company. No. 147,240; Oct. 4.
Candies. Gorham Chocolate Co. No. 147,217; Oct. 4.
Candy. C. H. Boyst. No. 147,201; Oct. 4.
Candy. B. E. Camp. No. 147,202; Oct. 4.
Candy. Imperial Candy Company. No. 147,113; Oct. 4.
Candy. Miss Saylor's Chocolates. No. 147,158; Oct. 4.
Cheese. J. C. Rudolph & Co. No. 147,155; Oct. 4.
Cheese, Grated. Western Cheese and Butter Co. No. 147,167; Oct. 4.
Chemical compound, Certain. Perolin Company of America. No. 147,146; Oct. 4.
Chemical, medicinal, and toilet preparations, Certain. Red Ball Company. No. 147,151; Oct. 4.
Chocolates and candies. Littlefield & Steere Co. No. 147,230; Oct. 4.
Coal-tar colors. H. Kohnstamm & Co. No. 147,122; Oct. 4.
Coal-tar dyes. H. Kohnstamm & Co. No. 147,123; Oct. 4.
Colors, Dry. Mangano Manufacturing Company. No. 147,125; Oct. 4.
Construction materials, Certain. Raymond Granite Company. No. 147,244; Oct. 4.
Cord, reed, and stakes, Fiber. Grand Lake Company. Nos. 147,104–5; Oct. 4.
Cotton duck, and canvas piece goods. J. Einstein, Inc. No. 147,091; Oct. 4.
Cotton piece goods. Burton Bros. & Co. No. 147,077; Oct. 4.
Cotton piece goods. Zürcher, Niederer & Co. No. 147,192; Oct. 4.
Cotton piece goods, Woven. Neuss, Hesslein & Co. No. 147,141; Oct. 4.
Cough-drops. B. Suter. No. 147,172; Oct. 4.
Cream, Dental. J. N. Wolodarsky. No. 147,191; Oct. 4.
Cream for sunburn, tan, burns, &c. Emo Co. No. 147,210; Oct. 4.
Cream, Shaving-. M. Lichtentag. No. 147,228; Oct. 4.
Creams, hair-tonics, and beautifiers, Complexion-. N. M. Ware. No. 147,185; Oct. 4.
Cutlery, machines, and tools, Certain. Banister & Pollard Co. No. 147,197; Oct. 4.
Dental cream. M. C. Drake. No. 147,087; Oct. 4.
Depilatories. J. Donner. No. 147,208; Oct. 4.
Disinfectants and deodorizers. Barclay & Barclay. No. 147,196; Oct. 4.
Dyestuffs and coal-tar intermediates. White Tar Aniline Corp. No. 147,188; Oct. 4.
Dyestuffs, certified food-colors, and intermediates. National Aniline & Chemical Company. Nos. 147,133–6; Oct. 4.
Dyewood and tanning extracts, Certain. Imperial Dyewood Corporation. No. 147,114; Oct. 4.
Edgers. Gordon Hollow Blast Grate Company. No. 147,219; Oct. 4.
Eggs and butter. Geo. R. Eldridge Co. No. 147,209; Oct. 4.
Extracts, Tanning. New York Quebracho Extract Company. No. 147,143; Oct. 4.
Fabric piece goods, Pile-. Hind & Harrison Plush Co. No. 147,111; Oct. 4.
Flannel shirtings and other similar cloths in the piece. Kelsall & Kemp. No. 147,120; Oct. 4.
Flavoring compound extract for ice-cream. Star Extract Works. No. 147,171; Oct. 4.
Flour and cornmeal, Wheat-. Ansted & Burk Co. No. 147,071; Oct. 4.
Flour, Self-rising wheat-. Schoening-Koenigsmark Milling Co. No. 147,159; Oct. 4.
Flour, Wheat-. Texas Star Flour Mills. Nos. 147,175–6; Oct. 4.
Fly, insect, and germ destroyer. H. J. Smith. No. 147,160; Oct. 4.
Foot-powder. H. Miller. No. 147,131; Oct. 4.
Furniture and automobile polish, Liquid. Chin-Chin Chemical Company. No. 147,062; Oct. 4.
Galactagogue preparations. Proto Chemical Co. No. 147,149; Oct. 4.
Gas-black and carbon-black. Binney & Smith Company. No. 147,072; Oct. 4.
Gasolene. Service Oil Refining Company. No. 147,160; Oct. 4.
Gasolene, Chemical preparation to increase the efficiency and power of. American Automobile Accessories Company. No. 147,070; Oct. 4.
Hair-curlers. West Electric Hair Curler Co. No. 147,254; Oct. 4.
Hair-grower. H. Folke. No. 147,098; Oct. 4.
Hair-grower, vegetable shampoo, and tetter-balm. S. B. Fields. No. 147,095; Oct. 4.
Hair-nets. May Department Stores Company. No. 147,128; Oct. 4.
Hair-nets. C. K. Thau. Nos. 147,177–8; Oct. 4.
Hats and caps. R. H. Macy & Co. No. 147,233; Oct. 4.
Hats, Soft, stiff, and velour. Murphy-Gorman Company. No. 147,238; Oct. 4.
Headlight-lenses. McKee Glass Company. No. 147,231; Oct. 4.
Heart-stimulant. W. F. Severa Co. No. 147,161; Oct. 4.
Heaters, Certain vehicle-. Francisco Auto Heater Co. No. 147,212; Oct. 4.
Hosiery. True Shape Hosiery Co. No. 147,252; Oct. 4.
Ironing-boards. C. Danielson. No. 147,198; Oct. 4.
Knives, forks, spatulas, carver-steels. J. H. Lickert. No. 147,229; Oct. 4.
Knives, safety, pocket, and camp axes, Hunting and fish. Marble Arms & Mfg. Company. No. 147,234; Oct. 4.
Lathes and lathe parts. Dalton Manufacturing Corporation. No. 147,205; Oct. 4.
Lathes and shapers and parts of same. Walcott Lathe Company. No. 147,253; Oct. 4.
Lime, Hydrated. Kelley Island Lime & Transport Company. No. 147,224; Oct. 4.
Liniment. W. F. Severa Co. No. 147,165; Oct. 4.
Liniment, Certain. Charles A. Wolf. No. 147,190; Oct. 4.
Liniment and medicinal preparation, Certain. A. L. Haas. No. 147,109; Oct. 4.
Liniments for rheumatic affections, &c. M. Gast. No. 147,100; Oct. 4.
Malt and hops, Concentrated material of. New England Brewing Company. No. 147,142; Oct. 4.
Mats and rugs. Binns Patent Band Co. No. 147,078; Oct. 4.
Meat-juice presses and food-choppers. Landers, Frary & Clark. No. 147,225; Oct. 4.
Medical compound in salve form. Eastman Chemical Co. No. 147,060; Oct. 4.
Medical preparation for asthma. W. M. Roberts. No. 147,154; Oct. 4.
Medicinal compound, Certain. Sharp & Dohme. No. 147,166; Oct. 4.
Medicinal preparation. J. J. McNulty, M. D. No. 147,232; Oct. 4.
Medicinal preparation, Certain. U-Rub-It Chemical Co. No. 147,180; Oct. 4.
Medicinal preparation for use in inhalers, Liquid. E. M. Greenfield. No. 147,106; Oct. 4.
Medicinal preparation, Tooth-paste, and mouth-wash. Kamr Chemical Laboratories. No. 147,116; Oct. 4.
Medicinal tonic, Certain. E. J. Bruns. No. 147,075; Oct. 4.
Medicine. Needham Products Company. No. 147,137; Oct. 4.
Medicine for indigestion, &c. W. F. Severa Co. No. 147,162; Oct. 4.
Medicine for kidneys and bladder. W. F. Severa Co. No. 147,163; Oct. 4.
Medicine for poultry, Certain. L. R. Wellington. No. 147,186; Oct. 4.
Medicine for use in epilepsy and other nervous disorders. Converse Treatment Co. No. 147,086; Oct. 4.
Medicines used as tonics and as mild laxatives. Vino Medical Co. No. 147,183; Oct. 4.
Milk, Condensed. Nestlé's Food Company. No. 147,140; Oct. 4.
Milk, Evaporated. Nestlé's Food Company. No. 147,139; Oct. 4.
Nails. W. H. Mase Company. No. 147,235; Oct. 4.
Nozzles, Sprinkler-. J. D. Ross. No. 147,245; Oct. 4.
Oil, Antiseptic, germicidal, and anodyne. F. W. Clements. No. 147,083; Oct. 4.
Oil, Machine-. Amboy Products Co. No. 147,068; Oct. 4.
Oil, Perfume-. George V. Gross & Company. No. 147,108; Oct. 4.
Ointment. Hall & Ruckel. No. 147,110; Oct. 4.
Ointment, Pile-. M. Gooslin. No. 147,214; Oct. 4.
Paint oils, colors, and pigments, turpentine. Chas. E. Sargent Company. No. 147,157; Oct. 4.
Paint, Soft pasta. Sherwin-Williams Company. No. 147,167; Oct. 4.
Paints, Ready-mixed. American Asphalt Roof Corporation. No. 147,069; Oct. 4.
Paints, varnishes, &c., Dry, ready-mixed, and paste. Standard Varnish Works. No. 147,170; Oct. 4.

Paints, Water-color. Orlando Chemical Co. No. 147,144; Oct. 4.
Paper, Legal, letter, and wrapping. J. Meyers Stationery & Printing Co. No. 147,236; Oct. 4.
Peppers, pimentos, tomato jam, &c., Pickled sweet. Kehoe Preserving Company. No. 147,119; Oct. 4.
Perfumery products, Certain. S. Greiner. No. 147,107; Oct. 4.
Perfumes and incense. Clover Products Corporation. No. 147,065; Oct. 4.
Perfumes, toilet waters, rouges, &c. Société Anonyme: de Luxy. No. 147,248; Oct. 4.
Picture films, Motion-. C. B. C. Film Sales Corporation. No. 147,203; Oct. 4.
Piece goods—namely, muslin. Marshall Field & Company. No. 147,126; Oct. 4.
Polish for furniture, floors, &c. Ceda-Oda Company. No. 147,080; Oct. 4.
Porcelain-enamel ware. American Enameled Products Co. No. 147,194; Oct. 4.
Powder, Baking-. Globe Grocery Stores. No. 147,101; Oct. 4.
Powder, Tooth-. F. W. Clements. No. 147,084; Oct. 4.
Preparation for treatment of pyorrhea. L. D. Caulk Company. No. 147,079; Oct. 4.
Preserves and jams, Fruit. Temtor Corn & Fruit Products Co. No. 147,174; Oct. 4.
Pumps, working heads. F. E. Myers & Bro. No. 147,239; Oct. 4.
Remedies for indigestion. Valley Laboratories. No. 147,181; Oct. 4.
Remedies, Poultry. F. & F. Poultry Remedy Co. No. 147,094; Oct. 4.
Remedy, Fat-reducing. Rite-Wate Medicine Co. No. 147,153; Oct. 4.
Rubber patches, Sheet-. Hugg-Tite Patch Co. No. 147,225; Oct. 4.
Salt for diabetes, Food-. M. Richarts. No. 147,152; Oct. 4.
Salts, Stomach-. C. H. Miller. No. 147,130; Oct. 4.
Salve, Certain. Mentholatum Company. No. 147,129; Oct. 4.
Salves for burns, scalds, bruises. Buraimo Company. No. 147,076; Oct. 4.
Salve for treatment of piles, blood-poison, &c. C. F. Karnes. No. 147,117; Oct. 4.
Sewing-machines. Domestic Sewing Machine Co. No. 147,207; Oct. 4.
Sewing machines, Certain. American Blind Stitch Machine Co. No. 147,193; Oct. 4.
Shampoo, Liquid. La France Laboratories. No. 147,124; Oct. 4.
Shampoos and disinfectants. H. J. Kline. No. 147,121; Oct. 4.
Shoes and sport-shoes. F. B. Harris. No. 147,219; Oct. 4.
Shortening compound. Chapman & Smith Company. No. 147,081; Oct. 4.
Silk piece goods. Carson Pirie Scott & Co. No. 147,078; Oct. 4.
Silk piece goods, Broad-. Duplan Silk Corporation. No. 147,089; Oct. 4.
Soda, Silicate of. San Antonio Drug Co. No. 147,156; Oct. 4.
Steam-traps. Templeton Manufacturing Co. No. 147,251; Oct. 4.
Steel and armor-plate, Tool-. Bethlehem Steel Company. No. 147,200; Oct. 4.
Steel, Non-corrosive. Ludlum Steel Company. No. 147,227; Oct. 4.
Steels and alloys. Ludlum Steel Company. No. 147,226; Oct. 4.
Stovepipes and stovepipe-elbows. Hemp & Co. (Corp.) No. 147,221; Oct. 4.
Suits, Men's and -boys'. Goldsmith Clothing Co. No. 147,213; Oct. 4.
Tap, drill, and wire gages. L. S. Starrett Company. No. 147,250; Oct. 4.
Taps and dies, pipe threading and cutting machines, boring bars. Murchey Machine & Tool Company. No. 147,237; Oct. 4.
Tea. Great Atlantic and Pacific Tea Company. No. 147,218; Oct. 4.
Thermometers, Clinical. A. Scherrer. No. 147,246; Oct. 4.
Thread, Mercerized. Sea Island Thread Co. No. 147,247; Oct. 4.
Thread, Sewing-. Holland Mfg. Co. No. 147,222; Oct. 4.
Tires, Rubber vehicle-. Norwalk Tire & Rubber Company. No. 147,241; Oct. 4.
Toilet preparations, Certain. F. J. de S. Coty. No. 147,206; Oct. 4.
Toilet preparations, Certain. Estasi Perfumery Co. No. 147,093; Oct. 4.
Toilet preparations, Certain. Houbigant, Inc. No. 147,112; Oct. 4.
Toilet preparations, Certain. J. H. Kark. No. 147,118; Oct. 4.
Toilet preparations, Certain. A. Overton. No. 147,145; Oct. 4.
Toilet preparations, Certain. Radior Co. Ltd. of London. No. 147,150; Oct. 4.
Toilet preparations, Certain. Alfred H. Smith Company. No. 147,168; Oct. 4.
Tonic, General. Erb Drug Co. No. 147,092; Oct. 4.
Tonic, Hair-. John Hart Brittain, Inc. No. 147,074; Oct. 4.
Tonic, Nerve and blood. C. J. Flom. No. 147,097; Oct. 4.
Tonic of cod-liver extract, malt, wild cherry, and hypophosphates. Interstate Drug Company. No. 147,116; Oct. 4.
Tonic-tablets, General-. United States Chemical Co. No. 147,179; Oct. 4.
Tooth-paste. C. Munter. No. 147,132; Oct. 4.
Tractors. C. L. Best Tractor Co. No. 147,190; Oct. 4.
Trimmer, Two-saw. Gordon Hollow Blast Grate Company. No. 147,215; Oct. 4.
Twine and cordage. M. J. Grady Company. No. 147,103; Oct. 4.
Twine, Binder-. Plymouth Cordage Company. Nos. 147,147–8; Oct. 4.
Varnishes. L. Nekrita. No. 147,138; Oct. 4.
Veils, veilings, and nettings in the piece. Van Raalte Company. No. 147,182; Oct. 4.
Vermin-exterminator. H. L. Witt. No. 147,189; Oct. 4.
Wax polish, Liquid-. J. Golding. No. 147,102; Oct. 4.
Wire-cloth, Screen. American Wire Fabrics Company. No. 147,195; Oct. 4.
Woolen piece goods. Cohen & Ehrenberg. No. 147,204; Oct. 4.
Woolen piece goods. Forstmann & Huffmann Company. No. 147,096; Oct. 4.
Yarns, Hand-knitting. Penn Worsted Company. No. 147,243; Oct. 4.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Alcohol, Denatured. Western Industries Co. No. 149,840; Oct. 4.
Alloy for jewelry and jewelers' goods. Marret, Bonnin, Lebel & Guieu. No. 143,652; Oct. 4.
Alloys, Non-ferrous metal. Barnhart Brothers & Spindler. No. 137,562; Oct. 4.
Apples, peaches, pears, &c. Bridgeville Packing Association. No. 145,307; Oct. 4.
Antiseptic solutions. Western Chemical Company. No. 148,633; Oct. 4.
Antiseptics. W. L. Erhardt. No. 137,218; Oct. 4.
Automobile accessories. Cloud Accessories Corporation. No. 135,681; Oct. 4.
Automobile-bodies. Lehman Mfg. Co. No. 147,883; Oct. 4.
Automobile-bodies, Cleaner and polish for. G. W. Cable. No. 152,164; Oct. 4.
Automobiles, Passenger-. Marsh Motor Car Company. No. 148,749; Oct. 4.
Bags and purses and parts of same, Chatelaine. S. G. Mandallian. No. 144,828; Oct. 4.
Bags made of cloth. Amoskeag Manufacturing Company. No. 142,608; Oct. 4.
Batteries, Storage. Storage Battery & Appliance Corporation. No. 146,189; Oct. 4.
Batteries, switches, &c., Cell and storage. Ship Owners Radio Service, Inc. No. 149,150; Oct. 4.
Beverage and flavoring for same, Non-alcoholic maltless. F. M. Fleischer. No. 149,130; Oct. 4.
Beverage and syrups for making same, Non-alcoholic. J. Mulhern Company. No. 149,709; Oct. 4.
Beverage, Maltless, carbonated chocolate. Anheuser-Busch, Inc. No. 151,137; Oct. 4.
Beverage Non-alcoholic maltless. Limpert Bros. Inc. No. 150,570; Oct. 4.
Beverages and syrups for making same. D. S. Mumphrey. No. 145,468; Oct. 4.
Beverages and syrups for making same. Patterson Mineral Water & Beverage Co. No. 150,566; Oct. 4.
Beverages and syrups for making same, Non-alcoholic. T. B. Kane. No. 149,706; Oct. 4.
Beverages and syrups, Non-alcoholic, non-cereal maltless. Standard Bottling Company. No. 150,207; Oct. 4.
Beverages, Non-alcoholic, maltless. The Ricco American Company of America. No. 150,371; Oct. 4.
Bloomers, Children's. Oppenheim, Oberndorf & Co. No. 147,043; Oct. 4.
Boning, steels, and staying materials. Mightybone Corporation of New York. No. 147,115; Oct. 4.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Bottle washing, filling, soaking, capping, and corking machines. McKenna Brass and Manufacturing Co. Inc. No. 147,884; Oct. 4.
Braids and articles of passementerie. Dollfus-Mieg & Cie. Societe Anonyme. No. 151,615; Oct. 4.
Bread. Taggart Baking Company. No. 148,773; Oct. 4.
Bread. Ward Baking Company. No. 148,635; Oct. 4.
Butter substitute. Ohio Dairy Co. No. 138,998; Oct. 4.
Candies. C. W. Brown. No. 149,264; Oct. 4.
Cambrics in the piece. Berkeley Company. No. 150,177; Oct. 4.
Cambrics, muslins, lawns, pongees, &c., in the piece. A. Seril. No. 146,667; Oct. 4.
Candies. L. M. Tully. No. 136,242; Oct. 4.
Candy. Carty Candy Co. No. 134,699; Oct. 4.
Candy. Charter Chocolate Company. No. 141,554; Oct. 4.
Candy. Charter Chocolate Company. No. 141,558; Oct. 4.
Candy. Hawley & Hoops. No. 140,381; Oct. 4.
Candy. Russell & Gilbert Co. No. 146,593; Oct. 4.
Candy, Chocolate. Samoset Chocolate Company. No. 134,147; Oct. 4.
Candy having a marshmallow center, Chocolate-coated peanut-. Curtiss Candy Co. No. 146,690; Oct. 4.
Candles. Norton Company. No. 145,284; Oct. 4.
Canned chili-con-carne and canned hot tomales. Walker Properties Association. No. 148,416; Oct. 4.
Canned fruit, vegetables, fish, and condensed milk. L. Rosenfeld. No. 143,061; Oct. 4.
Canned fruits and vegetables. California Growers Association. No. 137,207; Oct. 4.
Canned pineapple. Hawaiian Pineapple Company. No. 145,454; Oct. 4.
Canned pineapple. Hawaiian Pineapple Company. No. 145,564; Oct. 4.
Canned pineapple. Hawaiian Pineapple Company, Ltd. Nos. 147,424–5; Oct. 4.
Canned salmon and sardines. Jos. Socolof Co. No. 125,913; Oct. 4.
Canned vegetables. Inderrieden Canning Company. No. 148,148; Oct. 4.
Canteloups and fresh grapes. R. Krasnow & Sons. No. 148,152; Oct. 4.
Caps for men and boys. Funk & Maltz Cap Co. No. 141,166; Oct. 4.
Carbon-removing compound. Kodyte Laboratories. No. 145,633; Oct. 4.
Cartoons, Series of. R. L. Goldberg. No. 147,237; Oct. 4.
Chairs, Teachers', desk, &c. Peabody School Furniture Co. No. 145,856; Oct. 4.
Chemicals having oxidising properties. C. T. Stork. No. 148,855; Oct. 4.
Chest, Tool-. Union Tool Chest Company. No. 138,792; Oct. 4.
Chocolate, cocoa, &c. Brewster Sons Company. No. 144,172; Oct. 4.
Clothing. John Wanamaker, New York. No. 135,586; Oct. 4.
Coffee. Granger & Co. No. 146,821; Oct. 4.
Coffee. Ridenour-Baker Grocery Company. No. 148,166; Oct. 4.
Coffee. Young & Griffin Coffee Co. No. 148,359; Oct. 4.
Coffee makers and percolators. Citizens' Wholesale Supply Company. No. 148,257; Oct. 4.
Coffee, Roasted. Smile Company. No. 146,798; Oct 4.
Colors, Artists'. Winsor & Newton, Limited. No. 151,314; Oct. 4.
Combs, barrettes, &c. Diadem Mfg. Co. No. 146,207; Oct. 4.
Confectionery. T. Shortiss. No. 143,411; Oct. 4.
Conveyers, inclined and automatic elevators, &c. Standard Conveyor Company. No. 139,316; Oct. 4.
Cotton piece goods. Morton Sundour Fabrics Ltd. No. 148,359; Oct. 4.
Cotton sheeting in the piece. Berkeley Company. No. 150,175; Oct. 4.
Counting-machines. Root Company. No. 147,942; Oct. 4.
Crushers for crushing coal, &c., paint mills and mixers, driers for drying grain, &c. C. O. Bartlett & Snow Company, The. No. 148,422; Oct. 4.
Dies used in punch-presses and analogous machines for stamping metal products, Steel. A. Finkl & Sons Co. No. 147,957; Oct. 4.
Dresses, coats, skirts, &c. J. T. Rose. No. 144,790; Oct. 4.
Drink, Milk. Metzger Brothers. No. 143,883; Oct. 4.
Dyes, dyestuffs and colors. National Aniline & Chemical Company. Nos. 148,503–6; Oct. 4.
Dyestuff intermediates, E. I. du Pont de Nemours & Company. No. 146,259; Oct. 4.
Egg preserving compound. Figaro Chemical Co. No. 140,641; Oct. 4.
Elbows, crosses, caps, lock-nuts, couplings, &c. Kuhn Brothers. No. 150,236; Oct. 4.
Electric generating plants. Home Electric Lighting Company. No. 149,2201; Oct. 4.
Electric highway-crossing signals. Bryant Zinc Company. No. 146,565; Oct. 4.
Electric-lighting fixtures, badiaons, and batteries. E. J. Byington. No. 147,238; Oct. 4.
Electric omnibuses or passenger-vehicles. Atlas Truck Corporation. No. 150,343; Oct. 4.
Electric suction-cleaners. United Electric Company, The. No. 146,554; Oct. 4.
Engines, Timers for internal-combustion. H. D. Lafferty. No. 147,787; Oct. 4.
Eye-testing instruments. H. L. De Zeng. No. 146,698; Oct. 4.
Fabrics in the piece, Pile. Sidney Blumenthal & Co. Inc. No. 151,704; Oct. 4.
Fabrics, Textile. Wm. Anderson Textile Mfg. Co. No. 149,512; Oct. 4.
Feed, laying-mash, and cornmeal, Hen and chick. Richland Milling Company. No. 149,356; Oct. 4.
Feeds for animals and poultry, Mixed. Edgar-Morgan Co. No. 148,877; Oct. 4.
Fire-detectors, Electric automatic. D. G. Dee. No. 141,215; Oct. 4.
Flashlights and electric batteries. Winchester Repeating Arms Co. No. 148,254; Oct. 4.
Flavoring compound. Eng-Skell Company. No. 142,835; Oct. 4.
Flooring, Composition. Flexstone Flooring Company. No. 148,220; Oct. 4.
Flour, farina, cornmeal, &c. Hecker-Jones-Jewell Milling Company. No. 147,958; Oct. 4.
Flour, Wheat-. Collins Flour Mills. No. 149,385; Oct. 4.
Flour, Wheat-. Colorado Milling & Elevator Company. No. 149,318; Oct. 4.
Flour, Wheat-. Frank R. Prina Corporation. Nos. 149,350–1; Oct. 4.
Flour, Wheat-. Weber Flour Mills Corporation. No. 147,143; Oct. 4.
Food product. Fruit Valley Corporation. Nos. 135,850–1; Oct. 4.
Food products. Vitamine Food Products Company. No. 148,466; Oct. 4.
Foods for infants and invalids, Cereal and specially prepared. T. B. Wagner. No. 147,141; Oct. 4.
Fruit, Fresh citrus. D. A. Beattie. No. 144,662; Oct. 4.
Fruit tablets and other candies. Robertson Candy Co. No. 148,764; Oct. 4.
Fruits and vegetables, Fresh. L. K. Small Company. No. 147,475; Oct. 4.
Fruits, Fresh and dried deciduous. Oregon Growers Co-operative Assn. No. 147,451; Oct. 4.
Fruits, raisins, dates, &c. A. H. Brickwedel. No. 133,180; Oct. 4.
Furs, skins, hides, and pelts. Fouke Fur Company. No. 150,229; Oct. 4.
Ginger-ale. Red Fox Company. No. 148,816; Oct. 4.
Grapes, dried fruits and fresh deciduous fruits, Fresh. E. Y. Foley. No. 148,588; Oct. 4.
Greases, Lubricating-. Rusk Oil Co. of Philadelphia, Pa. No. 140,545; Oct. 4.
Gum, Chewing-. Mint Gum Company. No. 144,096; Oct. 4.
Hair-dye. Solon Palmer. No. 148,671; Oct. 4.
Hair-nets. Original Hair Net Company. No. 149,347; Oct. 4.
Hair, Solution for lightening the shade of. J. Senegas. No. 149,487; Oct. 4.
Hair-tonic. L. A. Steinmetz. No. 146,938; Oct. 4.
Hair-tonic, dandruff remedy. G. F. Melchior. No. 142,159; Oct. 4.
Handbags, Ladies'. M. Diamond & Co. No. 146,818; Oct. 4.
Harness for horses, Parts of. Rubber & Celluloid Products Company. No. 143,836; Oct. 4.
Hats and caps for men. J. T. Hardeman Hat Co. No. 146,552; Oct. 4.
Hats, caps, coats, suits, neckties, furs, &c. Dunlap & Co. No. 141,903; Oct. 4.
Hats, Women's. M. J. West. No. 146,406; Oct. 4.
Heating unit, Electric. P. F. Apfel. No. 143,530; Oct. 4.
Honey. J. S. Gross. No. 148,730; Oct. 4.
Horns and mechanical horns, Bulb-. Clayton-Wright Ltd. No. 146,757; Oct. 4.
Horseshoe heel and toe calks. Aetna Nut Co. No. 142,192; Oct. 4.
Hosiery. J. H. Semel & Co. No. 145,087; Oct. 4.
Hosiery, underwear, sweaters, overshirts. Cohen & Ettenson. No. 144,066; Oct. 4.
Insecticide. Insecto Manufacturing Co. No. 149,186; Oct. 4.
Insulators and insulating appliances and fittings, Molded electrical. Thomas De La Rue and Company. No. 140,879; Oct. 4.
Journal-bearings. Pacific Metal Bearing Company. No. 148,849; Oct. 4.
Kindling compounds. Blaz-Away. No. 142,550; Oct. 4.
Knapsacks. Cal Hirsch & Sons Mercantile Co. No. 146,019; Oct. 4.
Knives, scissors, shears, razors. Adolph Blaich, Inc. No. 146,351; Oct. 4.
Lacto-albuminous solution. P. Beiersdorf & Co. Inc. No. 149,625; Oct. 4.
Lamp sockets, switches, and parts thereof, Electric. Bryant Electric Company. No. 149,379; Oct. 4.
Lamps and starting and ignition devices for gas-engines, &c., Electric. Cuno Engineering Corporation. No. 146,166; Oct. 4.
Lamps and their parts, Electric incandescent. Osram G. m. b. H. Kommanditgesellschaft. No. 149,240; Oct. 4.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Lamps for automobiles, Electric parking-. Metal Spinning & Plating Co. No. 145,955; Oct. 4.
Lard. John Morrell & Company. No. 147,984; Oct. 4.
Lard substitute. O. Wynne. No. 144,792; Oct. 4.
Lotion and beautifier, Face. M. J. Lindsey. No. 149,336; Oct. 4.
Lotions and creams, powders, skin and massage. Kaufman-Straus Co. No. 140,654; Oct. 4.
Medicine for malaria, coughs, rheumatism, &c. Household Remedies Co. No. 133,662; Oct. 4.
Medicine for membranous croup, tonsilitis, &c. J. P. McCallum. No. 132,440; Oct. 4.
Middies, smocks, skirts, &c. Princess Garment Company. No. 134,787; Oct. 4.
Milk, Evaporated. Galloway-West Company. No. 148,591; Oct. 4.
Mordants. Grasser Chemical Company. No. 131,886; Oct. 4.
Motor accessories, temperature-indicating devices for engines. Motometer Company. No. 135,011; Oct. 4.
Mouth-wash. Penetro Chemical Company. No. 146,229; Oct. 4.
Musical instrument, Mouth wind. Bar Zim Toy Mfg. Co. No. 143,739; Oct. 4.
Musical instruments. Virzi Bros. No. 145,678; Oct. 4.
Mustard, sardines, vinegar, canned vegetables, &c. California Conserving Co. No. 149,710; Oct. 4.
Needles, Sewing-. George Borgfeldt & Co. No. 151,504; Oct. 4.
Oil for mops. Gem Hammock & Fly Net Company. No. 120,529; Oct. 4.
Oil made from cotton-seed, Salad and cooking. Globe Cotton Oil Mills. No. 146,546; Oct. 4.
Oil, Olive-. Pallarés Hermanos. No. 133,580; Oct. 4.
Oils, Vegetable and mayonnaise and salad. Strohmeyer & Arpe Company. No. 146,276; Oct. 4.
Ointment, Healing-. Beech Chemical Company. No. 148,792; Oct. 4.
Oranges, grapefruit, lemons, limes, &c., Fresh. J. M. Knight. No. 149,084; Oct. 4.
Oven-temperature regulator. Claus Automatic Gas Cock Co. No. 148,535; Oct. 4.
Pads, Chair-. T. E. Brawley. No. 142,551; Oct. 4.
Pails, pans, vats, scoops, &c. Edward C. Walker, 3d. No. 139,998; Oct. 4.
Paint and oils. Sup-R-Lin Products Co. No. 149,105; Oct. 4.
Paint and varnish remover. Standard Varnish Works. No. 150,375; Oct. 4.
Paint and varnish remover. Taylor-Van Houten Co. No. 150,642; Oct. 4.
Paints. Rinker-Deas Paint Co. No. 148,557; Oct. 4.
Paper and cloth, Flint. Baeder Adamson Co. No. 150,847; Oct. 4.
Paper and cloth, Flint, garnet, and emery. Baeder Adamson Company. No. 150,846; Oct. 4.
Paste, cold-cream, complexion-powder, &c., Tooth-. Nathan & Cie. Laboratoires, Cadum. No. 149,238; Oct. 4.
Pavements and paving materials. Warren Brothers Company. No. 151,967; Oct. 4.
Pendants, Luminous. H. T. Paiste Company. No. 148,246; Oct. 4.
Perfume, Liquid and powdered. Colgate Company. No. 149,446; Oct. 4.
Perfumes, toilet cream, &c. Société Anonyme des Parfums d'Arys. No. 149,620; Oct. 4.
Petroleum, Emulsion of. Angier Chemical Co. No. 138,745; Oct. 4.
Pharmaceutical preparation. Calco Chemical Company, The. No. 149,172; Oct. 4.
Pharmaceutical preparation. Comer, Fetterly & Company. No. 148, 923; Oct. 4.
Pharmaceutical preparations. Menley & James, Limited, New York. No. 137,066; Oct. 4.
Phonograph-record files. Phonograph Accessories Co. No. 131,352; Oct. 4.
Phonograph-records, Album for. F. S. Betts. No. 140,429; Oct. 4.
Photographic film. Seneca Camera Manufacturing Company. No. 146,746; Oct. 4.
Photographic plates and films. Heiser Co. No. 140,893; Oct. 4.
Piano-player, Player-rolls for. Billings Player Roll Company. No. 142,918; Oct. 4.
Pianos and player attachments for such or similarly keyed musical instruments, Player-. J. P. Eustis Manufacturing Company. No. 146,628; Oct. 4.
Pianos, Perforated note-sheets for player-. Q. R. S. Music Company. No. 144,684; Oct. 4.
Picture films, Motion-. Cosmoramic Pictures Corporation. No. 146,250; Oct. 4.
Picture films showing sketches, drawings, and photographs, Motion-. J. Ollendorff. No. 146,586; Oct. 4.
Picture slides, eye-glasses, lenses, &c., Moving-. New Era Optical Co. No. 140,297; Oct. 4.
Picture slides, eyeglasses, &c., Moving-. New Era Optical Co. No. 140,300; Oct. 4.
Pictures, Motion-. Educational Films Corporation of America. No. 147,869; Oct. 4.
Pills, Laxative. A. N. Gaebler. No. 148,590; Oct. 4.
Pins, Straight and safety. Plume & Atwood Mfg. Company, The. No. 149,201; Oct. 4.
Pipe-fittings, Iron and steel. J. Pantenkey. No. 148,163; Oct. 4.
Players, Expression-control devices for pneumatic. Clark Pneumatic Action Co. No. 145,457; Oct. 4.
Poison, Insect-. Exchange Orange Products Company. No. 148,723; Oct. 4.
Potash salt of the cyan-mercury-salicylic acid. J. D. Riedel Aktiengesellschaft. No. 148,551; Oct 4.
Poultry, Dressed. Missouri Egg & Poultry Company. No. 144,215; Oct. 4.
Powder, Baking-. Wilkes & Seaman Co. No. 148,681; Oct. 4.
Powder, Face-. W. C. Dillman. No. 148,674; Oct. 4.
Powder, Face-. M. Robins. No. 147,210; Oct. 4.
Powder for affections of the skin. R. Flores. No. 149,580; Oct. 4.
Powder for general household cleaning purposes. J. N. Hoyt. No. 146,486; Oct. 4.
Powder, Medicated foot-. P. L. De Weese. No. 149,215; Oct. 4.
Powder, Talcum. Talcum Puff Co. No. 149,605; Oct. 4.
Powders, Face-. F. J. de S. Coty. No. 138,542; Oct. 4.
Preparation for indigestion, constipation, bad breath, &c. G. J. Novak. No. 148,811; Oct. 4.
Preparation for removal of paints, finishes, enamels, &c. Sherwin-Williams Company. No. 147,134; Oct. 4.
Preparation for treatment of pyorrhea. E. F. Greer. No. 148,886; Oct. 4.
Preparation for use as a mouth-cleanser. W. H. Graves. No. 149,181; Oct. 4.
Prophylactics. Lowy Laboratory, Inc. No. 140,841; Oct. 4.
Remedy for hay-fever, bronchitis, &c. R. Filkins. No. 149,394; Oct. 4.
Remedy for treatment of rheumatism, headache, &c. J. Filipowics & Co. No. 149,222; Oct. 4.
Salt, Common. Worcester Salt Co. Nos. 149,307–8; Oct. 4.
Salve for cuts, sprains, piles, &c. N. W. Kline. No. 111,457; Oct. 4.
Sausage. Swift and Company. No. 133,233; Oct. 4.
Sausage, water, and cereal, potted meat products. Jacob E. Decker & Sons. No. 137,065; Oct. 4.
Sex of human beings and animals and of the embryo of eggs, Instruments for indicating. J. H. Arnold. No. 145,986; Oct. 4.
Shoe parts—namely, rubber heels. Brooks & Co. No. 147,005; Oct. 4.
Shoe-polish. N. Piccoli. No. 149,599; Oct. 4.
Soap. Western Soap Company. No. 151,901; Oct. 4.
Soaps. Fitzpatrick Bros. No. 151,665; Oct. 4.
Soaps. Fitzpatrick Bros. No. 151,667; Oct. 4.
Soaps. The Pioneer Tar Soap Company. No. 151,809; Oct. 4.
Soap, soap powder, &c. United Turkey Red Company. No. 144,439; Oct. 4.
Spark-plugs. Sharp Spark Plug Company. No. 117,415; Oct. 4.
Spark-plugs for internal-combustion engines. Cloud Accessories Corporation. No. 135,009; Oct. 4.
Spectacles, eyeglasses, ophthalmic lenses, and frames therefor. Economy Spectacle Company. No. 148,187; Oct. 4.
Steam-accumulator. Aktiebolaget Vaporackumulator. No. 137,168; Oct. 4.
Steam tables, culinary warmers, cookers, &c. Aldrich Manufacturing Co. No. 149,996; Oct. 4.
Steel plates, strips, and sheets. Sharon Steel Hoop Company. No. 149,837; Oct. 4.
Steel shafts, &c., Rolled-. Hydraulic Steel Company. No. 152,038; Oct. 4.
Sugar, gelatin, and fruit-acid compound. Miles Manufacturing Company. No. 146,190; Oct. 4.
Suits, Dresses, shirts, &c., Children's. A. Flax. No. 142,496; Oct. 4.
Tablets, Medicinal. C. E. Kiesling. No. 149,191; Oct. 4.
Talking-machines and records. Polyphonwerke Aktiengesellschaft. No. 146,544; Oct. 4.
Tanks or containers for liquids, Steel. Glass Coating Company. No. 129,570; Oct. 4.
Tanning extracts. New York Quebracho Extract Company. Nos. 148,968–70; Oct. 4.
Tea and coffee. American Grocers Society, Inc. No. 146,768; Oct. 4.
Thread, Cotton. Societe Francaise de Cotons à Coudre, (Societe Anonyme). No. 150,476; Oct. 4.
Thread, Cotton. Societe Francaise de Cotons à Coudre, (Societe Anonyme). No. 150,477; Oct. 4.
Thread, Cotton. Societe Francaise de Cotons à Coudre, (Societe Anonyme). Nos. 150,479–81; Oct. 4.
Thread, Cotton. Societe Francaise de Cotons à Coudre, (Societe Anonyme). Nos. 150,482–5; Oct. 4.
Thread, Cotton. Societe Francaise de Cotons à Coudre, (Societe Anonyme). Nos. 150,487–8; Oct. 4.
Tinware, Japanned and galvanized ware, sheet-metal products, &c. E. E. Lawson Company. No. 141,873; Oct. 4.
Tire-protecting and skid-preventing devices. C. Knestrick. No. 147,425; Oct. 4.
Tires and tubes therefor, Elastic vehicle-. The Goodyear Tire & Rubber Company. No. 151,830; Oct. 4.
Toilet preparation. Astra Chemical Company. No. 149,457; Oct. 4.
Tonic and liver preparation. R. I. Eaton. No. 130,093; Oct. 4.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Tonic and reconstructive, General. American Apothecaries Company. No. 149,499; Oct. 4.
Tonic in liquid form, Blood and nerve. The Clausen Zoller Company. No. 149,541; Oct. 4.
Trunks. Hartmann Trunk Co. No. 146,434; Oct. 4.
Valves, socks, bibs, and pipe-connectors. Cleveland Brass Manufacturing Co. No. 148,255; Oct. 4.
Vehicle axles and gear-casing construction therefor, Motor-. The Torbensen Axle Company. No. 149,724; Oct. 4.
Vehicle-spring. T. W. C. Hartmann. No. 148,736; Oct. 4.
Vending-machines provided with means for keeping contents hot. C. L. Paine. No. 148,893; Oct. 4.
Violins and parts thereof. Jackson-Guldan Violin Company. No. 145,949; Oct. 4.
Washing compound. J. J. Downey. No. 139,737; Oct. 4.
Water proof cement for building. The Staveley Coal & Iron Co. Limited. No. 152,140; Oct. 4.
Waterproof cloth in the piece. Pantasote Leather Company. No. 149,482; Oct. 4.
Waterproofing composition. J. Zoltowski. No. 146,154; Oct. 4.

CLASSIFICATION OF PATENTS

ISSUED OCTOBER 4, 1921.

NOTE.—First number—class, second number—subclass, third number—patent number.

3— 22: 1,392,539
144: 1,392,205
149: 1,392,532
1— 26: 1,392,495
1,392,580
5— 18: 1,392,695
41: 1,392,561
7— 12: 1,392,685
9— 20: 1,392,533
9.5— 2: 1,392,533
10— 72: 1,392,661
123: 1,392,705
147: 1,392,740
13— 6: 1,392,536
14: 1,392,580
85: 1,392,709
125: 1,392,357
15— 12: 1,392,453
28: 1,392,533
37: 1,392,523
50: 1,392,709
56: 1,392,741
58: 1,392,703
60: 1,392,624
1,392,674
62: 1,392,333
174— 29: 1,392,491
18— 5: 1,392,550
18: 1,392,487
1,392,645
45: 1,392,347
56: 1,392,606
20— 1.13: 1,392,610
22— 136: 1,392,884
203: 1,392,502
23— 13: 1,392,745
22: 1,392,814
24: 1,392,852
1,392,886
24— 8: 1,392,715
1,392,842
11: 1,392,388
35: 1,392,722
51: 1,392,256
126: 1,392,480
143: 1,392,339
245: 1,392,776
251: 1,392,816
259: 1,392,516
25— 22: 1,392,541
103: 1,392,435
118: 1,392,496
120: 1,392,807
26— 6: 1,392,611
30: 1,392,515
29— 1: 1,392,714
26.3: 1,392,373
180: 1,392,658
189: 1,392,300
1,392,416
30— 8: 1,392,455
31— 101: 1,392,346
1,392,570
32— 12: 1,392,612
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1,392,824
33— 9: 1,392,455
33: 1,392,710
45: 1,392,423
76: 1,392,756
102: 1,392,607
123: 1,392,723
142: 1,392,572
156: 1,392,825
167: 1,392,313
180: 1,392,360
189: 1,392,734
34— 12: 1,392,794
16: 1,392,621
35— 2: 1,392,578
12: 1,392,726
36— 3: 1,392,380
37: 1,392,579
42: 1,392,769
58.5: 1,392,628
50: 1,392,704
36— 75: 1,392,823
37— 7: 1,392,674
25: 1,392,877
63: 1,392,730
40— 2: 1,392,410
11: 1,392,622
18: 1,392,661
20: 1,392,391
25: 1,392,548
33: 1,392,718
61: 1,392,869
126: 1,392,337
132: 1,392,751
141: 1,392,639
43— 60: 1,392,666
81: 1,392,707
45— 9: 1,392,527
52: 1,392,744
97: 1,392,481
46— 25: 1,392,351
37: 1,392,484
1,392,727
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40: 1,392,725
45: 1,392,485
54: 1,392,586
55: 1,392,764
59: 1,392,662
34: 1,392,626
50— 23: 1,392,617
51— 65: 1,392,701
67: 1,392,325
80: 1,392,309
98: 1,392,793
206: 1,392,426
294: 1,392,698
52— 13: 1,392,851
53— 1: 1,392,664
3: 1,392,383
54— 1: 1,392,738
47: 1,392,673
55: 1,392,943
54— 17: 1,392,377
56— 60: 1,392,676
61— 9: 1,392,638
25: 1,392,414
30: 1,392,663
39: 1,392,616
62— 172: 1,392,385
64— 10: 1,392,636
17: 1,392,501
31: 1,392,306
62: 1,392,439
89: 1,392,452
91: 1,392,754
1,392,755
96: 1,392,842
65— 30: 1,391,406
67— 12: 1,392,774
68— 9: 1,392,289
1,392,296
1,392,375
30: 1,392,460
32: 1,392,478
69— 9.5: 1,392,596
70— 5: 1,392,531
8: 1,392,404
14: 1,392,514
1,392,707
128: 1,392,499
72— 1: 1,392,532
30: 1,392,402
84: 1,392,577
1,392,730
113: 1,392,315
73— 54: 1,392,538
111: 1,392,567
74— 5: 1,392,310
7: 1,392,517
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14: 1,392,465
17: 1,392,561
29: 1,392,618
34: 1,392,348
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35: 1,392,508
39: 1,392,399
74— 54: 1,392,295
1,392,720
58: 1,392,630
79: 1,392,646
81: 1,392,316
105: 1,392,609
108: 1,392,819
109: 1,392,308
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75— 17: 1,392,462
76— 63: 1,392,544
77— 56: 1,392,304
63: 1,392,778
78— 49: 1,392,494
98: 1,392,326
80— 36: 1,392,489
81— 17: 1,392,434
111: 1,392,443
118: 1,392,318
131: 1,392,651
152: 1,392,391
167: 1,392,782
82— 5: 1,392,528
44: 1,392,708
83— 8: 1,392,464
9: 1,392,887
26: 1,392,716
28: 1,392,649
46: 1,392,656
60: 1,392,345
71: 1,392,413
85: 1,392,399
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86: 1,392,779
92: 1,392,505
84— 223: 1,392,331
446: 1,392,883
461: 1,392,640
470: 1,392,766
85— 2.4: 1,392,703
88— 1.5: 1,392,759
16.6: 1,392,475
29: 1,392,327
46: 1,392,583
90— 9: 1,392,361
12.5: 1,392,585
16: 1,392,549
33: 1,392,770
91— 12.2: 1,392,509
12.7: 1,392,588
14.5: 1,392,358
1,392,692
16: 1,392,323
67.8: 1,392,301
70: 1,392,498
1,392,535
93— 2: 1,392,683
95— 64: 1,392,876
73: 1,392,312
97— 14: 1,392,732
23: 1,392,845
36: 1,392,685
68: 1,392,444
98— 27: 1,392,870
103— 77: 1,392,389
86: 1,392,341
87: 1,392,372
104— 112: 1,392,719
105— 37: 1,392,457
150: 1,392,820
157: 1,392,523
161: 1,392,535
166— 1,392,536
177: 1,392,451
201: 1,392,721
255: 1,392,371
274: 1,392,801
410: 1,392,472
448: 1,392,821
107— 18: 1,392,803
46: 1,392,856
48: 1,392,490
108— 23: 1,392,982
112— 41: 1,392,822
45: 1,392,422
112— 80: 1,392,542
122: 1,392,795
1,392,872
219: 1,392,696
113— 25: 1,392,867
80: 1,392,492
1,392,493
114— 144: 1,392,786
1,392,787
159: 1,392,394
178: 1,392,771
208: 1,392,526
230: 1,392,668
116— 33: 1,392,508
52: 1,392,506
1,392,731
70: 1,392,537
86: 1,392,367
87: 1,392,326
114: 1,392,808
137: 1,392,773
119— 31: 1,392,708
40: 1,392,666
73: 1,392,513
120— 47: 1,392,569
1,392,837
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87: 1,392,468
121— 2: 1,392,322
122— 27: 1,392,504
115: 1,392,366
389: 1,392,307
510: 1,392,675
123— 32: 1,392,556
53: 1,392,359
96: 1,392,597
109: 1,392,329
1,392,364
180: 1,392,670
190: 1,392,752
126— 17: 1,392,482
91: 1,392,479
97: 1,392,525
109: 1,392,888
163: 1,392,453
215: 1,392,808
285: 1,392,895
318: 1,392,841
128— 27: 1,392,700
131— 51: 1,392,409
132— 42: 1,392,812
47: 1,392,684
52: 1,392,374
1,392,711
80: 1,392,753
133— 2: 1,392,691
7: 1,392,589
134— 24: 1,392,477
137— 53: 1,392,534
102: 1,392,682
139: 1,392,544
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139— 32: 1,392,657
85: 1,392,803
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1,392,818
140— 24: 1,392,713
143— 32: 1,392,503
159: 1,392,396
144— 119: 1,392,543
145— 52: 1,392,796
61: 1,392,627
146— 6: 1,392,518
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14: 1,392,546
148— 8: 1,392,780
152— 1: 1,392,571
8: 1,392,433
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152— 8: 1,392,672
1,392,850
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13: 1,392,826
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14: 1,392,425
16: 1,392,881
18: 1,392,540
20: 1,392,545
22: 1,392,853
25: 1,392,813
37: 1,392,736
153— 72: 1,392,844
154— 12: 1,392,576
155— 10: 1,392,401
156— 24: 1,392,405
1,392,575
1,392,602
27: 1,392,512
37: 1,392,706
157— 6: 1,392,391
158— 36: 1,392,652
42: 1,392,709
46.5: 1,392,415
69: 1,392,729
75: 1,392,450
86: 1,392,463
91: 1,392,643
161— 10: 1,392,311
162— 7: 1,392,447
164— 42: 1,392,871
45: 1,392,330
79: 1,392,552
166— 13: 1,392,619
167— 3: 1,392,564
7: 1,392,454
1,392,707
172— 120: 1,392,555
179: 1,392,742
219: 1,392,349
232: 1,392,373
173— 332: 1,392,558
177— 329: 1,392,442
334: 1,392,293
380: 1,392,609
178— 88: 1,392,302
179— 33: 1,392,762
153: 1,392,840
175: 1,392,815
180— 1: 1,392,395
5: 1,392,688
27: 1,392,421
49: 1,392,365
184— 13: 1,392,592
187— 52: 1,392,320
188— 31: 1,392,772
212: 1,392,368
189— 41: 1,392,800
46: 1,392,305
90: 1,392,560
88: 1,392,846
191— 18: 1,392,403
116: 1,392,352
192— 5: 1,392,584
25: 1,392,629
1,392,788
26: 1,392,370
197— 129: 1,392,362
172: 1,392,458
186: 1,392,406
199— 32: 1,392,702
200— 19: 1,392,694
24: 1,392,431
52: 1,392,641
76: 1,392,332
113: 1,392,873
137: 1,392,340
155: 1,392,324
1,392,685
202— 4: 1,392,879
204— 25: 1,392,524
206— 31: 1,392,429
208— 38: 1,392,505
55: 1,392,848
75: 1,392,749
165: 1,392,634
210— 29: 1,392,882
65: 1,392,679
172: 1,392,647
191: 1,392,758
211— 8: 1,392,418
1,392,811
13: 1,392,634
212— 99: 1,392,785
137: 1,392,504
214— 1: R. 15,203
2: 1,392,382
41: 1,392,653
217— 5: 1,392,791
60: 1,392,290
69: 1,392,830
219— 3: 1,392,553
8: 1,392,436
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34: 1,392,698
35: 1,392,802
220— 18: 1,392,559
88: 1,392,892
221— 94: 1,392,600
1,392,601
102: 1,392,379
222— 4: 1,392,574
223— 31: 1,392,605
1,392,936
224— 23: 1,392,551
29: 1,392,507
1,392,777
226— 127: 1,392,632
227— 12: 1,392,660
228— 63: 1,392,642
229— 66: 1,392,344
230— 16: 1,392,854
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27: 1,392,829
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232— 42: 1,392,809
235— 30: 1,392,631
1,392,905
79: 1,392,647
144: 1,392,573
236— 17: 1,392,761
42: 1,392,334
238— 7: 1,392,500
10: 1,392,353
53: 1,392,376
111: 1,392,562
231: 1,392,790
288: 1,392,733
304: 1,392,798
310: 1,392,407
324: 1,392,288
340: 1,392,648
240— 1: 1,392,604
3: 1,392,497
7: 1,392,441
1,392,850
8.5: 1,392,420
61: 1,392,494
62: 1,392,488
1,392,747
111: 1,392,510
241— 8: 1,392,319
1,392,314
242— 68: 1,392,321
84.6: 1,392,736
157: 1,392,743
244— 12: 1,392,662
25: 1,392,703
29: 1,392,831
31: 1,392,529
1,392,655
246— 134: 1,392,630
135: 1,392,737
171: 1,392,620
423: 1,392,392

246— 468 1,392,775
248— 6 1,392,830
31 1,392,830
41 1,392,688
251— 6 1,392,749
46 1,392,411
52 1,392,827
128 1,392,284
135 1,392,354
154 1,392,607
252— 1,392,840
254— 28 1,392,765
98 1,392,287
99 1,392,338
131 1,392,355
254— 121 1,392,895
192 1,393,027
197 1,393,717
64 1,392,708
257— 28 1,392,511
37 1,392,547
122 1,392,521
1,392,823
182 1,393,021
259— 16 1,392,889
52 1,392,412
108 1,392,446
131 1,392,375
134 1,392,720
261— 60 1,392,724
261— 68 1,392,673
263— 7 1,392,782
68 1,392,727
263— 7 1,392,782
267— 282 1,392,888
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1,392,888
270— 68 1,392,676
270 118 1,392,676
265 13 1,392,676
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179 1,392,765
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282— 6 1,392,765
285— 1 1,392,815
287— 52 1,392,381
270— 82 1,392,671
271— 82 1,392,671
272— 1,392,671
274— 82 1,392,671
82 1,392,671
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288— 1,392,671
68 1,392,671
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294— 82 1,392,671
298— 82 1,392,671
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297— 192 1,392,780
1,392,780
146 1,392,712
1,392,780
1,392,780
1,392,780
298— 1,392,780
68 1,392,671
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Berger, Knute, assignor to Washington Iron Works, Seattle, Wash. Slack-puller for cableways. No. 1,393,604; Oct. 11.

Bergmaug, Karl, Brooklyn, N. Y. Packing-tool. No. 1,393,605; Oct. 11.

Berneburg, Eduard, Leipsig, Germany. Typewriter. No. 1,393,194; Oct. 11.

Bernitz, Ernest, assignor to Bernitz Furnace Appliance Company, Boston, Mass. Furnace-wall. No. 1,393,606; Oct. 11.

Bernitz Furnace Appliance Company. (See Bernitz, Ernest, assignor.)

Berridge, Russell W., Detroit, Mich. Manufacture of grape and other fruit juices. No. 1,393,422; Oct. 11.

Beylik, Franklin C., Glendale, assignor of one-half to N. W. Schwartslose, Los Angeles, Calif. Pectous material and making the same. No. 1,393,660; Oct. 11.

Billings, Cecil M., Brooklyn, assignor to Delmore Manufacturing Co., Inc., New York, N. Y. Vehicle-axle support. No. 1,393,004; Oct. 11.

Billings, Cecil M., Brooklyn, assignor to Delmore Manufacturing Co., Inc., New York, N. Y. Motor parcel-vehicle. No. 1,393,005; Oct. 11.

Billings & Spencer Company, The. (See Bayrer, Louis G., assignor.)

Bishop Company, The. (See Bishop, Frederick R., assignor.)

Bishop, Frederick R., North Attleboro, Mass., assignor to The Bishop Company. Ophthalmic mounting. No. 1,393,340. Oct. 11.

Bittner, Fred H., Bottineau, N. D. Adjustable reach. No. 1,393,661; Oct. 11.

Black, Archibald, Brooklyn, assignor, by mesne assignments, to L-W-F Engineering Company, Inc., College Point, Long Island, N. Y. Fuselage. No. 1,393,488; Oct. 11.

Black, George H., Rochester, N. Y., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Insole and making the same. No. 1,392,906; Oct. 11.

Blaisdell Company. (See Brooks, Harry A., assignor.)

Blass, Ferdinand M. E., East Orange, N. J. Self-heating smoothing-iron. No. 1,393,423; Oct. 11.

Blaser, Emmer H. (See Stalley, C. E., and Blaser.)

Block, Alexander, New York, N. Y. Lock. No. 1,393,006; Oct. 11.

Blunden, George T., London, England. Device for mounting timepieces. No. 1,393,607; Oct. 11.

Bocher, Aaron C., Milwaukee, Wis. Electrically-operated voting apparatus. No. 1,393,074; Oct. 11.

Boeckly, Paul. (See Schlatter, G. S., and Boeckly.)

Bogaty, Hermann. (See Ayres, E. B., and Bogaty.)

Boos, August N. E., New York, N. Y. Service-check and receipt. No. 1,393,480; Oct. 11.

Borden Company, The. (See Nonneman, Ira W., assignor.)

Borden Company, The. (See Taylor, Burt E., assignor.)

Boyce, William E., New York, N. Y. Article of merchandise. No. 1,393,608; Oct. 11.

Boyton, John C., and O. H. Nickerson, assignors to The Adapti Company, Cleveland, Ohio. Electric-light fitting. No. 1,393,075; Oct. 11.

Boyuls, Cecil H., Louisville, Ky. Garment-former. No. 1,392,907; Oct. 11.

Bower, Thomas F., Farmdale, Ohio. Road-building machine. No. 1,393,341; Oct. 11.

Bradley, Charles F., Hobart, Ind. Antislap device for pistons. No. 1,393,490; Oct. 11.

Brady, Horace L., Los Angeles, Calif. Fish-grapple. No. 1,393,076; Oct. 11.

Bradley, Ross E., Roland Park, Md. Billet-casting. No. 1,393,195; Oct. 11.

Brahmer, Leland F., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. No. 1,393,401; Oct. 11.

Breitweiser, Bert E., Wichita, Kans. Detachable tire-protector. No. 1,393,196; Oct. 11.

Brinton, William C., Jr., assignor, by mesne assignments, to Philbrin Corporation, Kennett Square, Pa. Electrical condenser. No. 1,393,077. Oct. 11.

Brockhagen, George J., Brooklyn, N. Y. Change-making machine. No. 1,393,424; Oct. 11.

Bronnert, Emile, Mulhouse, Alsace-Lorraine, France. Manufacture of artificial silk. No. 1,393,197; Oct. 11.

Bronnert, Emile, Mulhouse, Alsace-Lorraine, France. Manufacture of viscose silk. No. 1,393,198; Oct. 11.

Bronnert, Emile, Mulhouse, Alsace-Lorraine, France. Manufacture of artificial silk. No. 1,393,199; Oct. 11.

Brooks, Harry A., Glendale, assignor to Blaisdell Company, Los Angeles, Calif. Filter-cleaning apparatus. No. 1,393,492; Oct. 11.

Brossoit, James J. (See Maurer, A., and Brossoit.)

Brown, A. & F., Company, The. (See Woodward, Arthur C., assignor.)

Brown, Hugh E., assignor to W. M. Welch Manufacturing Company, Chicago, Ill. Experimental truss unit. No. 1,393,007; Oct. 11.

Browne, Vere B., Tarentum, Pa. Open-hearth furnace. No. 1,393,493; Oct. 11.

Browning Company, The. (See Johnson, Howard F., assignor.)

Bryant Electric Company, The. (See Catlin, Hoyt, assignor.)

Bryant, Henry D., Springfield, Mass. Amusement device. No. 1,393,494; Oct. 11.

Bryce, James W., Bloomfield, N. J., assignor to The Computing Scale Company, Dayton, Ohio. Automatic scale. No. 1,392,908; Oct. 11.

Buchsbaum, Samuel, Chicago, Ill. Belt-buckle. No. 1,393,425; Oct. 11.

Buebke, Charles M., assignor to P. F. Buebke, Portland, Oreg. Demountable baggage-rack for automobile running-boards. No. 1,393,200; Oct. 11.

Buebke, Phillip F. (See Buebke, Charles M., assignor.)

Bunnell, George H., and B. E. Titus, Midway, Utah. Vulcaniser. No. 1,393,496; Oct. 11.

Bunting Iron Works. (See Driscoll, Dennis L., assignor.)

Burkam, John. (See Helby, C. G., Burkam, Lindquist, Riggin, Allen, and Lau.)

Burke, Harry C., Santa Ana, Calif. Clocking device for detail-strips. No. 1,393,242; Oct. 11.

Burkleo, Peter, Library, Pa. Switch-throw. No. 1,393,496; Oct. 11.

Burns, Kathlyn L., assignor to Ovida Co., New York, N. Y. Diaphragm-confiner. No. 1,393,609; Oct. 11.

Burrese, John R., Tulsa, Okla. Automatic switch-point-locking device. No. 1,393,662; Oct. 11.

Burrowes, E. T., Company, The. (See Cole, Warren W., assignor.)

Butler, Frank L., Chicago, Ill. Electric fixture. No. 1,393,078. Oct. 11.

Butler, Frank L., Chicago, Ill. Electric fixture. No. 1,393,079; Oct. 11.

Butts, Eugene B., Chicago, Ill. Collapsible light and rain shield for vehicles. No. 1,393,080; Oct. 11.

Bussaird, Raleigh B., Washington, D. C., assignor, by mesne assignments, to Davis Automatic Equipment Corporation, New York, N. Y. Coin-controlled lock mechanism. No. 1,393,201; Oct. 11.

Bijur Motor Appliance Company. (See Wolfsohn, Lionel M., now by judicial change of name Lionel M. Woolson, assignor.)

Byllesby, H. M., & Company. (See Welch, W. J., and Tracy, assignors.)

Cadman, Addi B., assignor to Warner Manufacturing Company, South Beloit, Wis. Trailer-truck. No. 1,393,497; Oct. 11.

Callard, Robert P., and C. A. Rhonemus, Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-glass-drawing machine. No. 1,393,081; Oct. 11.

Calthrop, Everard R., assignor to E. R. Calthrop's Aerial Patents Limited, London, England. Parachute. No. 1,393,082; Oct. 11.

Calthrop, E. R., Aerial Patents Limited. (See Calthrop, Everard R., assignor.)

Campbell, Leslie S., Brighton, England. Carbureter. No. 1,393,426; Oct. 11.

Campbell, William A., Pittsburgh, Pa. Vise. No. 1,393,083; Oct. 11.

Camward Engineering Co. (See Howard, John A., Sr., assignor.)

Candee, Zenas P., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Machine element. No. 1,393,610; Oct. 11.

Canfield, George E., assignor to J. M. Dobson, Minneapolis, Minn. Centrifugal governor for Fordson tractors. No. 1,393,084; Oct. 11.

Carboni, Matthew J., New York, N. Y. Electric sign. No. 1,393,008; Oct. 11.

Carhart, Alfred B., Winchester, assignor to Crosby Steam Gage & Valve Company, Boston, Mass. Safety-valve. No. 1,393,258; Oct. 11.

Carle, Harry S., Chicago, Ill. Door and gate brace. No. 1,393,611; Oct. 11.

Carlson, Oscar F., Chicago, Ill. Burner. No. 1,392,909; Oct. 11.

Carnation Milk Products Co. (See Grindrod, George, assignor.)

Carouso, Victor, Oakland, Calif. Battery switch-lock. No. 1,393,259; Oct. 11.

Carpenter, Allan O., Corning, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Compressor. No. 1,393,085; Oct. 11.

Carr, James, Syracuse, N. Y. Tool-chuck. No. 1,393,260; Oct. 11.

Carrier Engineering Corporation. (See Carrier, Willis H., assignor.)

Carrier, Willis H., assignor to Carrier Engineering Corporation, Buffalo, N. Y. Method of and apparatus for drying, conditioning, and regulating the moisture content of hygroscopic materials. No. 1,393,086; Oct. 11.

Carroll, Charles E., Malden, Mass. Card-counter. No. 1,393,009; Oct. 11.

Carver, Wilfred A., Buffalo, N. Y. Fountain-feed rotary brush. No. 1,393,663; Oct. 11.

Casey, Marion E., Ware Shoals, S. C., assignor to M. H. Flowers, Asheville, N. C. Self-tightening gear and pulley attachment. No. 1,393,261; Oct. 11.

Catlin, Hoyt, Fairfield, assignor to The Bryant Electric Company, Bridgeport, Conn. Electric switch. No. 1,393,612; Oct. 11.

Catlin, Thomas S., Waveland, Ind. Jar-holder. No. 1,393,010; Oct. 11.

Cavalenes, John S. (See Soteros, L. C., and Cavalenes.)

Celite Products Company. (See Jordan, Walter L., assignor.)

Chalman, John E., assignor to Union Special Machine Company, Chicago, Ill. Binder for sewing-machines. No. 1,393,498; Oct. 11.

Charbonneau, Arthur A., Montreal, Quebec, Canada. Cigar-mold. No. 1,393,087; Oct. 11.

Chauvet, Felix E., St. Louis, Mo. Vehicle-spring. No. 1,393,263; Oct. 11.

Chase, Milton M., Cheyenne, Wyo. Retainer for motion-picture-film reels. No. 1,392,910; Oct. 11.

Chase-Shawmut Company, The. (See Conant, Franklin N., assignor.)

Chesnutt, John L., Long Beach, Calif. Swivel-caster. No. 1,392,911; Oct. 11.

Chesnutt, John L., Long Beach, Calif. Ball-bearing string-proof wheel. No. 1,392,912; Oct. 11.

Chesnutt, John L., Long Beach, Calif. Swivel-caster. No. 1,392,913; Oct. 11.

Chesnutt, John L., Long Beach, Calif. Swivel-caster. No. 1,392,914; Oct. 11.

Chisholm-Moore Manufacturing Company, The. (See Esmsberg, Arthur S., assignor.)

Christie, Evi W., Sewaren, assignor to Wheeler Condenser and Engineering Company, Carteret, N. J. Condensing apparatus. No. 1,393,499; Oct. 11.

Christoph, Edward A. (See Christoph, Emil A., assignor.)

Christoph, Emil A., assignor of one-half to E. A. Christoph, Chicago, Ill. Electric toaster. No. 1,393,427; Oct. 11.

Christoffersen, William. (See Samuelson, P. W., and Christoffersen.)

Church, Frederick B., Azusa, assignor to International Precipitation Company, Los Angeles, Calif. Process and apparatus for recovering metallic values from ores. No. 1,393,428; Oct. 11.

Cincinnati Frog & Switch Company. (See Edelblute, Thomas H., assignor.)

Clark, Edward B., Golconda, Ill. Indicating device. No. 1,393,500; Oct. 11.

Clark, John T., Provo, Utah. Necktie-holder. No. 1,393,262; Oct. 11.

Clark, Otis B., and C. H. Franklin, Schenectady, N. Y., assignors to General Electric Company. Drop-hammer. No. 1,393,501; Oct. 11.

Clark, Solomon. (See Lyttle, J. D., and Clark.)

Clark, William C., Spokane, Wash. Railway-spike. No. 1,393,343; Oct. 11.

Claus, Carl, Philadelphia, Pa. Dining-room turntable. No. 1,393,202; Oct. 11.

Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,393,429; Oct. 11.

Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,393,430; Oct. 11.

Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone system. No. 1,393,502; Oct. 11.

Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical system. No. 1,393,503; Oct. 11.

Claybek, Stephen G., Gerdenville, N. Y. Air-brake-piston-leather-expanding ring. No. 1,393,664; Oct. 11.

Clendenon, James L., Ensley, Ala. Hub for gears, pulleys, and tools. No. 1,392,915; Oct. 11.

Clifton, Jesse A., Orangeburg, S. C. Wax-melting machine and seal-maker. No. 1,393,263; Oct. 11.

Closson, Clarence E., Potlatch, Idaho. Advertising-cabinet. No. 1,393,665; Oct. 11.

Coates, Frederick, Wyoming, assignor to Federal Products Company, Cincinnati, Ohio. Paste-applying machine. No. 1,393,505; Oct. 11.

Cohan-Epner Co. (See Jaroll, Louis, assignor.)

Cole, John A., New York, N. Y. Truck-loader. No. 1,392,916; Oct. 11.

Cole, Warren W., assignor to The E. T. Burrowes Company, Portland, Me. Combined parting-bead and weather-strip. No. 1,393,264; Oct. 11.

Collie, James H., Birkenhead, England. Multiple-cable gland for bulkheads and the like and plastic filling compound therefor. No. 1,393,089; Oct. 11.

Collins, Daniel, New York, N. Y. Vehicle-wheel. No. 1,393,504; Oct. 11.

Computing Scale Company, The. (See Bryce, James W., assignor.)

Conant, Franklin N., Newburyport, Mass., assignor, by mesne assignments, to The Chase-Shawmut Company. Renewable fuse. No. 1,392,917; Oct. 11.

Connecticut Tool and Engineering Company, The. (See Matthews, Frank E., assignor.)

Connor, Robert D., Withington, Manchester, England. Method and apparatus for drawing wire. (Reissue.) No. 15,205; Oct. 11.

Conrad, Nicholas J., assignor to Schweitzer & Conrad, Chicago, Ill. Method of and means for switching. No. 1,393,344; Oct. 11.

Conway, William J., San Francisco, Calif. Truck-loading device. No. 1,393,345; Oct. 11.

Copeland, Harry L., Walla Walla, Wash. Moving form for concrete construction. No. 1,393,506; Oct. 11.

Cook, Frank J., Cleveland, Ohio. Insulating composition of matter. No. 1,393,346; Oct. 11.

Cook, Stanley S. (See Parsons, C. A., Cook, and Douglas.)

Cooke, Samuel H., and J. O. Miller, Greenville, S. C. Spring-support for looms. No. 1,393,347; Oct. 11.

Cooper, Arthur E., Beacon, N. Y. Billiard-cue holder. No. 1,393,265; Oct. 11.

Cooper, David S. (See Croft, Charles L., assignor.)

Cordes, Frank, Pittsburgh, Pa. Chill-mold. No. 1,393,666; Oct. 11.

Cornell, Fred, Los Angeles, Calif. Oil service-fountain. No. 1,393,507; Oct. 11.

Cornell, John M., Seabright, N. J. Construction of rolling doors, shutters, and curtains. No. 1,392,918; Oct. 11.

Cousins, George, Oswego, N. Y. Micrometer-caliper. No. 1,393,266; Oct. 11.

Cousins, George, Oswego, N. Y. Staybolt-chuck. No. 1,393,267; Oct. 11.

Cowardin, Harry A. (See Cowardin, Samuel P. and H. A.)

Cowardin, Samuel P. and H. A., Richmond, Va. Fuel-injector for internal-combustion engines. No. 1,393,090; Oct. 11.

Craig, Robert M., Wilkinsburg, Pa. Metallic-denture-drawing die. No. 1,392,919; Oct. 11.

Crampton, Arthur F., West Hartford, Conn. Means for refining small grinding-wheels. No. 1,393,667; Oct. 11.

Crane Company. (See Link, Maximilian W., assignor.)

Croft, Charles L., Balham, London, assignor of one-half to D. S. Cooper, London, England. Catch for stands for motorcycles and the like. No. 1,393,508; Oct. 11.

Crosby Steam Gage & Valve Company. (See Carhart, Alfred B., assignor.)

Crosley, Powel, Jr., Cincinnati, Ohio. Vulcaniser. No. 1,393,091; Oct. 11.

Crown Cork and Seal Company of Baltimore City, The. (See Kryzanowsky, Constant J., assignor.)

Crown Cork and Seal Company of Baltimore City, The. (See Taylor, Samuel W., assignor.)

Crown, Earl T., St. Petersburg, Fla. Easy-starting device for automobiles. No. 1,393,268; Oct. 11.

Culman, Carl, Maplewood, Mo. Calipers for pivot testing, truing, and poising of balance staffs and wheels. No. 1,393,203; Oct. 11.

Culver, Clarence C., U. S. Army. Localizer. No. 1,393,431; Oct. 11.

Cummings, Jay H., Elmira, N. Y. Automatic rough-grinding mechanism for piston-rings. No. 1,393,669; Oct. 11.

Daggett, George W., North Girard, Pa. Automatic pressure-regulated air-valve. No. 1,393,204; Oct. 11.

Dailey, Edward J., Jr., New York, N. Y. Lamp. No. 1,393,432; Oct. 11.

Dane, Clayton A., and A. A. Kraemer, Philadelphia, Pa., assignor to The Hess-Bright Manufacturing Company. Cage for antifriction-bearings. No. 1,392,920; Oct. 11.

Daniels, Lee G., Rockford, Ill. Automatic lathe. No. 1,393,205; Oct. 11.

Daniels, Lee G., Rockford, Ill. Lathe. No. 1,393,206; Oct. 11.

Davenport, George R., Detroit, Mich., assignor to The Studebaker Corporation. Valve attachment. No. 1,393,345; Oct. 11.

Davies, Llewelyn J., Cincinnati, Ohio. Valve-spring lifter. No. 1,393,669; Oct. 11.

Davis Automatic Equipment Corporation. (See Bussard, Raleigh B., assignor.)

Davis, James C., Hinsdale, assignor to American Steel Foundries, Chicago, Ill. Method of and means for reclaiming molding-sand. No. 1,393,092; Oct. 11.

Davis Motor Corporation. (See Davis, Theodore E., assignor.)

Davis, Marion A., Sherman, Tex. Automobile-windlass. No. 1,393,349; Oct. 11.

Davis, Theodore E., Brigham, Utah, assignor to Davis Motor Corporation. Internal-combustion engine. No. 1,393,670; Oct. 11.

Day, Albert V. T., New Rochelle, N. Y., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,393,011; Oct. 11.

Deane, Maude B. (See McCully, Thomas A., assignor.)

Dean, William W., Wilmette, Ill., assignor to Efficiency Electric Corporation, New York, N. Y. Motor-governing device. No. 1,393,433; Oct. 11.

Deichmann, Albert. (See Wenschow, Karl, assignor.)

Delmore Manufacturing Co. (See Billings, Cecil M., assignor.)

Dennis, Alfred A., Grand Rapids, Mich. Phonograph sound-box. No. 1,393,434; Oct. 11.

Dennis, Leonard J. (See Abraham, M., and Dennis.)

Denis, Luc L. B., Paris, France. Dynamic system adapted to impart to a mechanical system a rapid movement of oscillation. No. 1,393,671; Oct. 11.

Denman-Jones, Adrian, Holloway, London, England. Heating device for automobiles. No. 1,393,093; Oct. 11.

De Reamer, Frank C., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 1,393,509; Oct. 11.

De Save, Arthur E., Mobile, Ala. Oil-tank. No. 1,393,719; Oct. 11.

Descalles, Eugène M. O., Paris, France, assignor to D. O. T. Societe Anonyme pour l'Exploitation des brevets Descalles, Liege, Belgium. Permutation-lock. No. 1,393,269; Oct. 11.

Dick, A. B., Company. (See Hill, Edward W., assignor.)

Diehl, Ambrose N., Duquesne, and F. E. Leahy, McKeesport, Pa. Apparatus for burning gases. No. 1,392,921; Oct. 11.

Dierkes, Henry H., New York, N. Y. Curtain-support. No. 1,393,672; Oct. 11.

Dilg, Charles H. J., New York, N. Y. Shelf-support. No. 1,393,012; Oct. 11.

Dillon, Edward L., assignor to L. Norvell, trustee, St. Louis, Mo. Well-drilling machine. No. 1,393,350; Oct. 11.

Dillon, William C., Fort Dodge, Iowa. Auxiliary air device. No. 1,392,922; Oct. 11.

Dingee, Marian P., Philadelphia, Pa. Silencer for communion-cup racks. No. 1,393,673; Oct. 11.
Dittes, Jesse Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Pin-puller. No. 1,393,004; Oct. 11.
Dobson, James M. (See Canfield, George R., assignor.)
Doehler Die Casting Company. (See Gutmueller, Robert, assignor.)
Doe, Walter S., Kent, Ohio. Battery-connector. No. 1,393,674; Oct. 11.
Doe, Walter S., Kent, Ohio. Flashlight. No. 1,393,675; Oct. 11.
Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,393,351; Oct. 11.
Dodge, William L., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,393,352; Oct. 11.
D. O. T. Societe Anonyme pour l'Exploitation des brevets Descalles. (See Descalles, Eugene M. O., assignor.)
Douglas, Louis M. (See Parsons, C. A., Cook, and Douglas,)
Doxford, Robert P. (See Keller, Karl O., assignor.)
Dow Chemical Company, The. (See Barstow, E. O., and Jones, assignor.)
Dow, Fred T., Bangor, Me. Treating peat and similar substances. No. 1,393,435; Oct. 11.
Dowdy, Morton T., East Bakersfield, Calif. Combination-lock for automobiles. No. 1,393,676; Oct. 11.
Downard, James S., Ardmore, Okla. Block-molding machine. No. 1,393,270; Oct. 11.
Drabek, Charles, Cleveland, Ohio. Combined spring and lever suspension for vehicles. No. 1,393,095; Oct. 11.
Draper Corporation. (See Rhoades, Alonzo E., assignor.)
Draper Corporation. (See Youngquist, Henry W., assignor.)
Draper, George E., Pittsburg, Kans. Tire-valve. No. 1,392,923; Oct. 11.
Dreher, John, and L. A. Olmscheuk, Mispah, Minn. Combination lifting-jack and tire expander and contractor. No. 1,393,271; Oct. 11.
Drew Electric and Manufacturing Company. (See Schwarz, Paul G., assignor.)
Driggs, Louis L., New York, N. Y. Semi-automatic gun. No. 1,393,353; Oct. 11.
Driscoll, Dennis L., Coalinga, assignor of one-half to Bunting Iron Works, San Francisco, Calif. Fishing appliance for use in drilling operations. No. 1,393,096; Oct. 11.
Driver-Harris Company. (See Hunter, Matthew A., assignor.)
Dubisky, Michael J., Rockford, Ill. Guard for punch-presses. No. 1,393,510; Oct. 11.
Dubrow, Frederick, Sausalito, Calif. Artificial fish-bait. (Reissue.) No. 15,204; Oct. 11.
Duncanson, Vincent E., Lynchburg, Ohio. Eyeglass-holder. No. 1,393,511; Oct. 11.
Dunlop Rubber Company, The. (See Healea, William H., assignor.)
Dunning, Hiram F., Turtleford, Saskatchewan, Canada. Toy. No. 1,393,512; Oct. 11.
Du Pont, E. I. de Nemours & Company. (See Albert, Talbot J., Jr., assignor.)
Du Pont, E. I., de Nemours & Company. (See Embardt, John C., assignor.)
Du Pont, E. I. de Nemours & Company. (See Haon, Harry J., assignor.)
Du Pont, E. I., de Nemours & Company. (See Henning, Clarence I. B., assignor.)
Du Pont, E. I., de Nemours and Company. (See Houlehan, Arthur E. assignor.)
Du Pont, E. I., de Nemours & Company. (See Stetson, F. W., and Essex, assignors.)
Du Pont, E. I., de Nemours & Company. (See Stine, C. M. A., and Gilson, assignors.)
Du Pont, Francis I., Wilmington, Del. Oil-burning apparatus. No. 1,393,207; Oct. 11.
Dupré, William H., Vicksburg, Miss. Grease-cup. No. 1,393,027; Oct. 11.
Dutton, William H., and C. E. Stone, Cedar Rapids, Iowa, assignors to The Tokheim Oil Tank & Pump Company. Liquid measuring and dispensing apparatus. No. 1,393,272; Oct. 11.
Duval, Ernest H., Monroe, Mich., assignor to George W. Swift, Jr., Incorporated, Bordentown, N. J. Stamping-machine. No. 1,393,513; Oct. 11.
Dyer, Harry W., East Orange, N. J. Spring-bumper. No. 1,393,354; Oct. 11.
Eastman, Joseph, Manitowoc, Wis. Nozzle-holder. No. 1,393,098; Oct. 11.
Ebert, Earnest R. (See Ebert, George H. and E. R.)
Ebert, George H. and E. R., Burlington, Iowa. Attaching means for antiskidding-chains. No. 1,393,099; Oct. 11.
Eckhardt, Adolph W., New York, N. Y. Pneumatic vehicle-wheel. No. 1,393,514; Oct. 11.
Eclipse Machine Company. (See Whitney, Maurice P., assignor.)
Edelblute, Thomas H., Pittsburgh, Pa., assignor to Cincinnati Frog & Switch Company, Cincinnati, Ohio. Parallel ground-throw switch-stand. No. 1,393,677; Oct. 11.
Efficiency Electric Corporation. (See Dean, William W., assignor.)
Egerton, Henry C., Passaic, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Diaphragm and making such diaphragm. No. 1,393,515; Oct. 11.
Egry Register Company, The. (See Noth, George J., assignor.)
Elder, George W. (See Elder, John R. and G. W.)
Elder, John R., Sioux City, and G. W. Elder, Forest City, Iowa. Animal-trap. No. 1,393,516; Oct. 11.
Elliott, Bamford, Worcester, Mass. Suitcase. No. 1,393,272; Oct. 11.
Elliott, William S., Pittsburgh, Pa. Cutter for tube-cleaners and other purposes. No. 1,393,618; Oct. 11.
Embardt, John C., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coated article. No. 1,393,355; Oct. 11.
Empire Cream Separator Company. (See McCormack, Herbert, assignor.)
Endless Belt Corporation. (See Grupe, William F., assignor.)
Erickson, Oscar F., and H. P. Olson, Madison, Wis. Balanced-gear drive for automobiles. No. 1,393,209; Oct. 11.
Hricson, Charles O., Helmetta, N. J. Fuel-oil-gas mixer. No. 1,393,517; Oct. 11.
Esenwein, William H., Bellevue, Pa. Swimming frog. No. 1,393,518; Oct. 11.
Espeland, Franklin A., Oakes, N. D. Mopping-machine. No. 1,393,100; Oct. 11.
Espeland, Franklin A., Oakes, N. D. Scrubbing-machine. No. 1,393,101; Oct. 11.
Essex, Jesse L. (See Stetson, F. W., and Essex.)
Eustice, Alfred L., Chicago, Ill. Fuse-terminal-attaching means. No. 1,393,102; Oct. 11.
Evans, Willis J., New York, N. Y. Device for administering medicine. No. 1,393,209; Oct. 11.
Evenson, Edwin G., and H. J. Anderson, Minneapolis, Minn. Laundry-tub faucet. No. 1,393,103; Oct. 11.
Fairbanks, E. and T., and Company. (See Starr, Morton H., assignor.)
Falk, Arthur, Duluth, Minn. Spotlight-support. No. 1,393,678; Oct. 11.
Fan Flame Spark Plug Co. (See Gill, Horace E., assignor.)
Farish, James H., *et al.* (See Albright, Jacob J., assignor.)
Farnsworth, Frederick C., Conshohocken, Pa. Duplex pumping trap. No. 1,392,924; Oct. 11.
Farwell, Ray O., Dubuque, Iowa. Driving mechanism for machine-spindles. No. 1,393,104; Oct. 11.
Feaster, Edward B., Boston, Mass. Filer and making the same. No. 1,393,698; Oct. 11.
Federal Products Company. (See Coates, Frederick, assignor.)
Ferguson, John L., Joliet, Ill. Forming containers. No. 1,393,274; Oct. 11.
Feriani, Gaetano, assignor to Societa Brevetti Feriani, Rome, Italy. Winch. No. 1,393,436; Oct. 11.
Fernald, Mark E., Saugus, Mass. Sole-marking machine. No. 1,393,105; Oct. 11.
Ferragamo, Salvatore, Santa Barbara, Calif. Turnbuckle. No. 1,393,614. Oct. 11.
Fireman, Peter, Trenton, N. J., assignor to Magnetic Pigment Company. Pigment and producing the same. No. 1,392,925; Oct. 11.
Fireman, Peter, Trenton, N. J., assignor to Magnetic Pigment Company. Pigment and producing the same. No. 1,392,926; Oct. 11.
Fireman, Peter, Trenton, N. J., assignor to Magnetic Pigment Company. Pigment and producing same. No. 1,392,927; Oct. 11.
Flannery Bolt Company. (See Dodds, Ethan I., assignor.)
Florence, Wilfrid N., Middlebury, Vt. Traction-wheel. No. 1,393,210; Oct. 11.
Flowers, Mamie H. (See Casey, Marion R., assignor.)
Folts, Irving J., Seattle, Wash. Regulator. No. 1,393,615; Oct. 11.
Forderer, John W., San Francisco, Calif. Sound-reproducer for phonographs. No. 1,393,106; Oct. 11.
Ford Instrument Company. (See Meitner, Elemer, assignor.)
Forster, John, Los Angeles, Calif. Lock-joint. No. 1,393,679; Oct. 11.
Foss, Manton E., Wilder, Minn. Pump. No. 1,392,928; Oct. 11.
Foster, Samuel G., Westfield, N. J. Adjustable window-screen. No. 1,393,616; Oct. 11.
Frame, Augustus J. (See Ash, T., and Frame.)
Frame, John, Searsport, Me. Artificial bait. No. 1,393,617; Oct. 11.
Franklin, Charles H. (See Clark, O. R., and Franklin.)
Franz, Hector A., Hood River, Oreg. Annunciator. No. 1,393,275; Oct. 11.
French, James C., assignor to F. C. Austin, Chicago, Ill. Traction-engine. No. 1,393,519; Oct. 11.
Fried. Krupp Aktiengesellschaft. (See Vollmer, John, assignor.)
Friederich, Ernst, Berlin, Germany, assignor to General Electric Company. Inclosed-arc device and starting the same. No. 1,393,520; Oct. 11.
Frühling, Curt. (See Frühling, Otto and C.)
Frühling, Otto and C., Braunschweig, Germany. Suction-dredge. No. 1,393,680; Oct. 11.

Frykman, August, Souris, N. D., assignor of one-fourth to F. W. Galland, Minneapolis, Minn. Piston-ring. No. 1,393,211; Oct. 11.
Fuller, Aubrey V., New York, N. Y. Filling-machine. No. 1,393,276; Oct. 11.
Fuller, Frederick L., Bridgeport, Conn., assignor to The National Cash Register Company, Dayton, Ohio. Machine for printing and issuing railway-tickets. No. 1,392,929; Oct. 11.
Fuller, Jesse W., Little Rock, Ark. Connecting device for wires. No. 1,393,107; Oct. 11.
Furman, Leonard L. (See Hogan, L. J., and Furman.)
Gabrielson, Carl, Syracuse, N. Y. Platen-clutch for type-writing-machines. No. 1,393,277; Oct. 11.
Gaines, Roy Edw., Evansville, Ind. Spring. No. 1,393,618; Oct. 11.
Galland, Frank W. (See Frykman, August, assignor.)
Galvin, John E. (See Priwer, Herman F., assignor.)
Gander, James S., Forest Gate, England. Safety device for oil-burning apparatus. No. 1,393,212; Oct. 11.
Gardner, Patrick, Brooklyn, N. Y. Mattress. No. 1,393,619; Oct. 11.
Garrett, James O., Denver, Colo. Truck-brake. No. 1,393,013; Oct. 11.
Garrett, John B., Troy, N. Y. Daylight X-ray-film-developing tank. No. 1,393,108; Oct. 11.
Garrett, John B., Troy, N. Y. Film-envelop. No. 1,393,100; Oct. 11.
Gas Machinery Company, The. (See Rugg, Daniel M., assignor.)
Gates, Andrew W., Monmouth, Ill. Die for making articles of plastic material. No. 1,393,014; Oct. 11.
Gauntt, Forest G., Fort Wayne, Ind. Motor-vehicle headlight. No. 1,393,278; Oct. 11.
Gavin, Peter, Vancouver, British Columbia, Canada. Tube-expander. No. 1,393,620; Oct. 11.
Gee Electric Company. (See Morris, Stephen W., assignor.)
Geist, Fred, Jr., Ellington, Mo. Means employed in accounting systems. No. 1,392,930; Oct. 11.
Gerli, Paul, New York, N. Y. Hydroplane-station. No. 1,392,931; Oct. 11.
George, John H., assignor to E. A. Hawthorne, Bridgeport, Conn. Electric-lighting apparatus. No. 1,393,357; Oct. 11.
General Electric Company. (See Clark, O. R., and Franklin, assignors.)
General Electric Company. (See De Reamer, Frank C., assignor.)
General Electric Company. (See Friederich, Ernst, assignor.)
General Electric Company. (See Langmuir, Irving, assignor.)
General Electric Company Limited, The. (See McColl, Albert E., assignor.)
General Electric Company. (See Steenstrup, Christian, assignor.)
General Electric Company. (See White, William C., assignor.)
General Explosives Company. (See Sturgis, William B., assignor.)
Gersdorff, Albert L., Bartlesville, Okla. Temperature-indicating device. No. 1,393,279; Oct. 11.
Gessert, Jacob, Buffalo, N. Y. Spring for pin-setting machines. No. 1,393,110; Oct. 11.
Getchell, Benjamin E., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Inclosed-switch construction. No. 1,393,111; Oct. 11.
Gets Manufacturing Co. (See Barcus, George N., assignor.)
Giampietro, Vincent, Baltimore, Md. Oil-extracting apparatus. No. 1,393,621; Oct. 11.
Glinn, Harrie M., Boston, Mass. Clutch mechanism. No. 1,392,932; Oct. 11.
Gilbert, Alfred, Birmingham, England. Post-card. No. 1,393,213; Oct. 11.
Gill, Horace E., assignor to Fan Flame Spark Plug Co., Yonkers, N. Y. Spark-plug. No. 1,392,933; Oct. 11.
Gilson, John L. (See Stine, C. M. A., and Gilson.)
Gilson Manufacturing Company. (See Large, George, assignor.)
Glandt, William F., Stanton county, near Leigh, Nebr. Gate-fastener. No. 1,392,934; Oct. 11.
Glaudel, George, Los Angeles, assignor of one-half to G. L. Mitchell, Santa Monica, Calif. Auxiliary windshield. No. 1,393,681; Oct. 11.
Glaudel, George, Los Angeles, assignor, by mesne assignments, of fifty per cent. to G. L. Mitchell, Santa Monica, Calif. Wind-deflector. No. 1,393,682; Oct. 11.
Glickman, David, Chicago, Ill. Suspenders. No. 1,392,935; Oct. 11.
Glyeyn Corporation, The. (See Saunders, Harold F., assignor.)
Gobeille, Napoleon. (See Leduc, J., and Gobeille.)
Godillon, Victor H., assignor to Societe d'Optique et de Mecanique de Haute Précision, Paris, France. Stabilizing apparatus for sighting instruments. No. 1,393,437; Oct. 11.
Godsal, Philip T., Iscoyd Park, England. Small-arm. No. 1,393,112; Oct. 11.
Gooding, George B. (See Robinson, J. T., Gooding, and Russo.)
Good Inventions Co. (See Good, John, assignor.)
Good, John, Garden City, assignor to Good Inventions Co., New York, N. Y. Burner-regulation system. No. 1,393,280; Oct. 11.
Goodrum, Charles L. (See McQuarrie, J. L., and Goodrum.)
Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone system. No. 1,393,521; Oct. 11.
Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,393,522; Oct. 11.
Goss, Daniel B., Cuyahoga Falls, Ohio. Bumper and tire-carriers. No. 1,393,113; Oct. 11.
Graber, Harry F. (See Townley, Richard B., assignor.)
Grandjean, Adolphe, Paris, France. Portable loading apparatus. No. 1,393,214; Oct. 11.
Grant, Albert E., New York, N. Y. Combined burner and gas-generator unit. No. 1,393,358; Oct. 11.
Gray, Francis C., College Corner, Ohio. Antiskid-chain. No. 1,393,523; Oct. 11.
Gray, Walter, Washington, D. C. Broom. No. 1,393,215; Oct. 11.
Greene Aeronautical Company, The. (See Greene, Otto W., assignor.)
Greene, Otto W., assignor to The Greene Aeronautical Company, Elyria, Ohio. Clutch mechanism. No. 1,392,936; Oct. 11.
Greim, Albert P., Toms River, N. J. Trap. No. 1,393,438; Oct. 11.
Greist Manufacturing Company, The. (See Russell, Herbert H., assignor.)
Grey, John F., New Orleans, La. Steam-turbine. No. 1,393,114; Oct. 11.
Grid-Iron-Grip Company. (See Slauson, Louis E., assignor.)
Grindrod, George, Kent, assignor to Carnation Milk Products Co., Seattle, Wash. Preservative for milk. No. 1,393,282; Oct. 11.
Groene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Turning and facing lathe. No. 1,393,115; Oct. 11.
Grupe, William F., Hudson Heights, N. J., assignor to Endless Belt Corporation, Inc. Tipping mechanism. No. 1,393,524; Oct. 11.
Grupe, William F., Hudson Heights, N. J., assignor to Endless Belt Corporation, Inc. Counting mechanism. No. 1,393,525; Oct. 11.
Grupe, William F., Hudson Heights, N. J., assignor to Endless Belt Corporation, Inc. Tipping mechanism for cigarette-machines. No. 1,393,526; Oct. 11.
Gudka, E. E., Mfg. Co. (See Williams, Frank P., assignor.)
Guthrie, Grover, Massena, Iowa. Device for holding hogs. No. 1,393,527; Oct. 11.
Gutmueller, Robert, Woodhaven, assignor to Doehler Die Casting Company, Brooklyn, N. Y. Casting apparatus. No. 1,393,216; Oct. 11.
Guthridge, Charles F., Los Angeles, Calif. Typist's copy-stand. No. 1,393,116; Oct. 11.
Halbach, John F., Philadelphia, Pa. Auto-wheel protector. No. 1,393,528; Oct. 11.
Haley, Arthur L., Seattle, Wash. Sawing taper logs. No. 1,393,529; Oct. 11.
Haley, Timothy, Springfield, Ohio. Gas regulator and safety device. No. 1,393,217; Oct. 11.
Hall, Arthur J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,393,439; Oct. 11.
Hall, Robert F., Birmingham, England. Manufacture of glass articles. No. 1,393,118; Oct. 11.
Halfpenny, Herbert, Brantford, Ontario, Canada. Amusement device. No. 1,393,117; Oct. 11.
Halsey, William S., Dover, N. J. I-beam trolley. No. 1,393,015; Oct. 11.
Hamel Shoe Machinery Company. (See Angell, Otis R., assignor.)
Hamilton, Edward L., McCrory, Ark. Convertible vehicle-body. No. 1,393,440; Oct. 11.
Hammer, Charles, Queens, assignor to American Metal Cap Company, Brooklyn, N. Y. Means for sealing receptacles. No. 1,393,016; Oct. 11.
Hammagren, Oran S., Minneapolis, Minn. Metal-working machine. No. 1,392,937; Oct. 11.
Haon, Harry J., Newburgh, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Panel. No. 1,393,359; Oct. 11.
Hapner, Adam L., Cincinnati, Ohio. Baker's peel. No. 1,393,683; Oct. 11.
Harms, Albert E. (See Möller, M. W., and Harms.)
Harris, Hollis H., assignor to The Thew Shovel Company, Lorain, Ohio. Steering mechanism for self-propelled crane-trucks. No. 1,393,119; Oct. 11.
Harris, Hollis H., assignor to The Thew Shovel Company, Lorain, Ohio. Spring-truck. No. 1,393,360; Oct. 11.
Harris, Hollis H., assignor to The Thew Shovel Company, Lorain, Ohio. Power-shovel. No. 1,393,361; Oct. 11.
Harris, Hollis H., assignor to The Thew Shovel Company, Lorain, Ohio. Power-shovel. No. 1,393,362; Oct. 11.
Harris, Hollis H., assignor, by mesne assignments, to The Thew Shovel Company, Lorain, Ohio. Convertible excavating-machine. No. 1,393,363; Oct. 11.
Hart, H. C., *et al.* (See Shepard, Wilbur L., assignor.)
Hastings, Charles E., Chicago, Ill., assignor to National Dairy Machine Company, Goshen, Ind. Side-car attachment for motorcycle. No. 1,392,938; Oct. 11.

Hathaway, Edgar F., Dorchester, Mass., assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Chenille-strip distribution. No. 1,392,939; Oct. 11.

Hawthorne, Ellsworth A. (See George, John H., assignor.)

Hayworth, William A., Universal, Ind. Car-coupling. No. 1,393,364; Oct. 11.

Heales, William H., Coventry, assignor to The Dunlop Rubber Company, Limited, London, England. Detachable wire-spoked wheel. No. 1,393,441; Oct. 11.

Heck, George D., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Dental engine. No. 1,393,120; Oct. 11.

Helby, Carl G., J. Burkam, D. E. Lindquist, F. L. Riggin, E. W. Allen, and E. Lau, Sarnia, Canada, assignor, by mesne assignments, to Mueller Metals Company, Port Huron, Mich. Blank for and method of making fuse-bodies. No. 1,393,121; Oct. 11.

Heil, John, Melrose Park, Ill. Tool for removing cores and valve-core stools from tire-valves. No. 1,393,365; Oct. 11.

Heindl, Stephen O., assignor of one-half to E. Zeits, Chicago, Ill. Razor grinder. No. 1,393,283; Oct. 11.

Heinrichs, Berg, assignor to Mid-West Box Company, Anderson, Ind. Machine for sealing boxes. No. 1,393,122; Oct. 11.

Heller, Henry R., New York, N. Y., assignor, by mesne assignments, to Auto Pneumatic Action Co. Player-piano action. No. 1,393,123; Oct 11.

Hellmund, Rudolf E. (See Storer, N. W., and Hellmund.)

Hellmund, Rudolf E. Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,393,442; Oct. 11.

Helmond, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,392,940; Oct. 11.

Henderson, Robert I., Toronto, Ontario, Canada. Carburetor. No. 1,393,366; Oct. 11.

Henderson, Robert I., Toronto, Ontario, Canada. Carburetor. No. 1,393,367; Oct. 11.

Henke, Harold W., Lewisham, London, England. Speed-indicating instrument or the like. No. 1,393,624; Oct. 11.

Henon, John D., Philadelphia, Pa. Adjustable templet-form holder for self-centering templet-holders. No. 1,393,125; Oct. 11.

Henning, Albert, Leytonstone, London, England. Non-inflammable volatile liquid. No. 1,393,124; Oct. 11.

Henning, Clarence I. B., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Propellent smokeless-powder charge. No. 1,393,623; Oct. 11.

Henry, George J., San Francisco, Calif. Radiant reflector. No. 1,393,368; Oct. 11.

Henry, George J. (See Shoenberg, M. H., and Henry.)

Henry, George M., Pullman, Wash. Phonograph-record-cabinet attachment. No. 1,393,284; Oct. 11.

Henschel, Charles J., Brooklyn, N. Y. Ship's telegraph. No. 1,393,684; Oct. 11.

Henschel, Charles J., Brooklyn, N. Y. Annunciator-drop. No. 1,393,685; Oct. 11.

Hermes, Mike W., Bulger, Pa. Trolley-wire extension-splice. No. 1,393,530; Oct. 11.

Herrbold, William J., Kalamazoo, Mich. Portable hoist. No. 1,393,218; Oct. 11.

Hess-Bright Manufacturing Company, The. (See Dane, C. A., and Kraemer, assignors.)

Hettelsater, Henry C., and E. K. Scott, Oak Park, assignor to F. K. Hoover Chicago, Ill. Scale and transfer car. No. 1,393,017; Oct. 11.

Hewes, Laurence I. (See Purcell, C. H., and Hewes.)

Hewett, Robert J., Westfield, N. J. Electric signaling system. No. 1,393,443; Oct. 11.

Hewitt, Peter C., Ringwood Manor, N. J. Relay. No. 1,393,018; Oct. 11.

Hewitt, Peter C., Ringwood Manor, N. J. Constant-current distribution system. No. 1,393,019; Oct. 11.

Hewitt, Peter C., Ringwood Manor, N. J. Apparatus for translating electrical variations. No. 1,393,369; Oct. 11.

Higham, Harold. (See Bayles, E. A., and Higham.)

Hill, Edward W., assignor to A. B. Dick Company, Chicago, Ill. Stenciling material. No. 1,393,444; Oct. 11.

Hinds, Francis E., Lansing, Kans. Saw-gage. No. 1,393,126; Oct. 11.

Hirsch, Henry, assignor to L. B. Koch, New York, N. Y. Shutter control for cinematographic targets. No. 1,392,941; Oct. 11.

Hobbs, John R., London, England. Piston. No. 1,393,285; Oct. 11.

Hobbs, John R., London, England. Tool for grinding internal cylindrical surfaces. No. 1,393,625; Oct. 11.

Hogan, Leonard J., and L. L. Furman, Williamsburg, Iowa. Water-trough. No. 1,393,686; Oct. 11.

Hohl, George I., Newark, N. J. Intermittent-motion mechanism. No. 1,393,219; Oct. 11.

Holzapfel, Albert C., New York, N. Y. Paint. No. 1,393,220; Oct. 11.

Hohmann, Richard K., assignor to Hohmann Sewing Machine Company, Peru, Ind. Sewing-machine take-up mechanism. No. 1,393,127; Oct. 11.

Hohmann Sewing Machine Company. (See Hohmann, Richard K., assignor.)

Hoopes, William, assignor to Aluminum Company of America, Pittsburgh, Pa. Making aluminum nitrid and other chemical substances. No. 1,393,370; Oct. 11.

Hoopes, William, assignor to Aluminum Company of America, Pittsburgh, Pa. Apparatus for making aluminum nitrid and other chemical substances. No. 1,393,371 Oct. 11.

Hoopes, William, assignor to Aluminum Company of America, Pittsburgh, Pa. Making aluminum nitrid and other chemical substances. No. 1,393,372; Oct. 11.

Hoopes, William, assignor to Aluminum Company of America, Pittsburgh, Pa. Electrical resister. No. 1,393,373; Oct. 11.

Hoover, Frank K. (See Hettelsater, H. C., and Scott, assignors.)

Hosford, William F., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Reeling-machine. No. 1,393,286; Oct. 11.

Hostater, Margaret E., Westfield, N. Y. Dish-washing machine. No. 1,393,687; Oct. 11.

Hough, Samuel, and W. Lohr, Philadelphia, Pa. Automatic lubricating shackle-bolt. No. 1,393,128; Oct. 11.

Houlehan, Arthur E., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Manufacture of diphenylamin. No. 1,392,942; Oct. 11.

Howard, John A., Sr., West New Brighton, N. Y., assignor to Camward Engineering Co., Inc. Electric incubator. No. 1,393,531; Oct. 11.

Howard, John A., Sr., West New Brighton, N. Y., assignor to Camward Engineering Co., Inc. Electric floor mop or brush. No. 1,393,532; Oct. 11.

Howell, Frank B., Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill. Boiler. No. 1,393,622; Oct. 11.

Howerth, Herbert J., Cleveland, Ohio. Shock-absorber. No. 1,393,374; Oct. 11.

Howle, Ernest O., Nashville, Tenn., and J. E. Leonard, Cedar Rapids, Iowa. Stove and range. No. 1,393,129; Oct. 11.

Hoyt, William C., South Bend, Wash. Combination level and bevel. No. 1,393,533; Oct. 11.

Hudson, Alexander M., New York, N. Y. Wheel-fender. No. 1,393,020; Oct. 11.

Huffman, Louis, Toronto, Ontario, Canada. Knob-lock. No. 1,393,021; Oct. 11.

Hughes, Burton S., assignor to Zaremba Company, Buffalo, N. Y. Evaporator. No. 1,393,221; Oct. 11.

Hughes, Joseph W., Bethlehem, Pa. Automobile-locking device. No. 1,393,022; Oct. 11.

Humphris, Frank, Boscombe, England. Construction of adjustable spanners, wrenches, clamps, pipe-cutters, pipe-grips, and the like. No. 1,393,534; Oct. 11.

Humphrey, John P., Springfield, Ill. Sunshade for vehicles. No. 1,393,130; Oct. 11.

Hunt, Alexander Geo., St. Louis, Mo. Fuel-saver and primer. No. 1,393,535; Oct. 11.

Hunt, Homer, Hartford, Conn. Ladder attachment. No. 1,393,536. Oct. 11.

Hunter, Matthew A., Troy, N. Y., assignor to Driver-Harris Company, Harrison, N. J. Thermo-couple. No. 1,393,375; Oct. 11.

Hunter, Thomas B., San Francisco, Calif. Apparatus for cap-stemming raisins. No. 1,393,287; Oct. 11.

Hurwitz, Samuel J., Youngstown, Ohio. Rim-tool. No. 1,392,943; Oct. 11.

Husted, Monroe G., Bridgeton, N. J. Automatic feed and reverse for lathes. No. 1,393,131; Oct. 11.

Hutchinson, Job, Brooklyn, N. Y. Internal-combustion engine. No. 1,393,132; Oct. 11.

Hutton, Frank O., Sacramento, Calif. Canning machinery. No. 1,393,288; Oct. 11.

Hyde, Charles L., Plainfield, N. J. Support for tube and the like. No. 1,393,023; Oct. 11.

Icy-Hot Bottle Company, The. (See Altenberg, George P., assignor.)

Ingersoll-Rand Company. (See Carpenter, Allan O., assignor.)

International Precipitation Company. (See Church, Frederick B., assignor.)

Ingersoll-Rand Company. (See Bayles, Lewis C., assignor.)

Ingersoll-Rand Company. (See Ditson, Jesse, assignor.)

International Motor Company. (See Matthews, Joseph L., assignor.)

Ingersoll-Rand Company. (See Smith, William A., assignor.)

Irish, William E., Cleveland, Ohio. Thermally operated device. No. 1,393,376; Oct. 11.

Iverson, Sören L. (See Albrechtsen, H., and Iversen.)

Jack, Charles P. M., Glasgow, Scotland. Navigable vessel. No. 1,393,537; Oct. 11.

Jacobs, Carl, et al. (See Roll, John M., assignor.)

Jacobs, E. B., et al. (See Roll, John M., assignor.)

Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam-boiler economiser system. No. 1,393,445; Oct. 11.

Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Fluid-pressure-operating device. No. 1,393,446; Oct. 11.

Jaroll, Louis, assignor to Cohan-Epner Co., New York, N. Y. Belt-buckle. No. 1,393,222; Oct. 11.

Jarusa, Leon, Chicago, Ill. Scrubbing-machine. No. 1,393,133; Oct. 11.

Jelalian, Martin, Cranston, R. I. Spring-cushion device for vehicle-tires. No. 1,393,377; Oct. 11.

Jenkins, B. Crawford, et al. (See Albright, Jacob J., assignor.)

Jessup, Albert H., assignor to American Sterilizer Company, Erie, Pa. Sterilizer. No. 1,392,944; Oct. 11.

Johansen, Svend, Winnipeg, Manitoba, Canada. Automatic clock-controlled switch-operating device. No. 1,393,447; Oct. 11.

Johnson, Axel, Oakland, assignor to American Can Company, San Francisco, Calif. Apparatus for truing can-bodies and positioning ends thereupon. No. 1,393,134; Oct. 11.

Johnson, Ernest N., Winnipeg, Manitoba, Canada. Switch-rail. No. 1,393,538. Oct. 11.

Johnson, Howard F., assignor to The Browning Company, Cleveland, Ohio. Differential brake. No. 1,393,135. Oct. 11.

Johnson, Howard A., Norfolk, Va. Centrifugal brake. No. 1,393,289; Oct. 11.

Johnson, Merton E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole. No. 1,393,688; Oct. 11.

Johnson, William C., New Haven, Conn. Pencil-sharpener. No. 1,393,378; Oct. 11.

Johnson, Rosamond L., Port Orchard, Wash. Muster-check board. No. 1,393,136; Oct. 11.

Jones, Coulter W. (See Barstow, E. O., and Jones.)

Jordan, Walter L., Glendale, assignor to Celite Products Company, Los Angeles, Calif. Reclaiming used lubricating-oils. No. 1,393,223; Oct. 11.

Jordan, Walter L. (See Krieger, A. H., and Jordan.)

Jourdain, Louis, Lowell, Mass. Thread-cutter for looms. No. 1,393,539; Oct. 11.

Joy, William H., and H. G. Porter, Lansing, Mich. Knock-down voting-booth. No. 1,393,224; Oct. 11.

Karro, William W., Great Neck, N. Y. Skate. No. 1,393,024; Oct. 11.

Katafiasz, Michael. (See Lewandowski, A., and Katafiasz.)

Katz, Max, assignor to Voss & Stern, New York, N. Y. Fabric. No. 1,393,025; Oct. 11.

Kaufman, Saul. (See Miller, Harry B., assignor.)

Keene, Louise T., Corning, Calif. Bedclothes-clamp. No. 1,393,137; Oct. 11.

Kellar, James E., Sistersville, W. Va. Well-boring machine. No. 1,392,945; Oct. 11.

Keller, Bela A., assignor of one-third to M. E. Messersmith, Newark, N. J., and one-third to M. E. Stern, New York, N. Y. Treatment of metals and their surfaces. No. 1,393,290; Oct. 11.

Keller, Karl O., assignor of one-half to R. P. Doxford, Sunderland, England. Internal-combustion engine. No. 1,393,626; Oct. 11.

Kelley, Edward F., assignor to The Raybestos Company, Bridgeport, Conn. Clevis. No. 1,393,379; Oct. 11.

Kelley, John M., Rochester, N. Y. Pump. No. 1,393,138; Oct. 11.

Kelley, Isaac N., et al. (See Mullins, John C., Jr., assignor.)

Kelly, John F., Pittsfield, Mass. Desiccating food. No. 1,393,540; Oct. 11.

Kemp, Edward R. (See Kotzebue, Meinhard H., assignor.)

Kemp, Robert, Washington, D. C., assignor to Westinghouse Electric & Manufacturing Company. Structural element. No. 1,393,541; Oct. 11.

Kennon, Charles W., Tampa, assignor of one-half to W. W. Pemble, Leesburg, Fla. Cinder-guard. No. 1,393,627; Oct. 11.

Kent, Clarence H. (See Percy, C., and Mills, assignors.)

Kepler, George D., assignor of one-half to H. D. Saylor, Pottstown, Pa. Puller for crank-pins, &c. No. 1,393,026; Oct. 11.

Keystone Steel & Wire Company. (See Sommer, John, assignor.)

Kiesel, William F., Jr., Altoona, Pa. Journal-box hinge-pin. No. 1,393,139; Oct. 11.

Kietz, Adolf, Cleveland, Ohio. Device for waving hair. No. 1,393,448; Oct. 11.

Kight, Garland F., Norfolk, Va. Stock. No. 1,393,380; Oct. 11.

King, John Y., Lansdowne, Pa. Shock-absorbing spring. No. 1,393,140; Oct. 11.

King, Sam T., Williamsfield, Ill. Traffic-signal. No. 1,393,381; Oct. 11.

Kirk, Laurence H. (See Lipe, W. C., and Kirk.)

Kirschberg, Harold, Pittsburgh, Pa. Light-projector. No. 1,393,027; Oct. 11.

Kistner, Herman, Elizabeth, assignor, by mesne assignments, to Victory Hammered Piston Ring Company, Newark, N. J. Packing-ring. No. 1,393,542; Oct. 11.

Klein, William C., Allentown, Pa. Vehicle-drive. No. 1,393,543; Oct. 11.

Kobis, Felix, Worcester, Mass. Combination monkey and pipe wrench. No. 1,393,028; Oct. 11.

Koch, Lydia B. (See Hirsch, Henry, assignor.)

Koenig, Frederick, Pittsburgh, Pa. Underfeed stoker. No. 1,393,292; Oct. 11.

Kolchinsky, Ushir, Philadelphia, Pa. Steam-cooker. No. 1,393,546; Oct. 11.

Kostko, Jaroslaw K., St. Louis, Mo. Method and means for improving the commutation of dynamo-electric machines. No. 1,393,141; Oct. 11.

Kotzebue, Meinhard H., assignor to E. R. Kemp, Tulsa, Okla. Vaporizing burner for hydrocarbon fuels. No. 1,393,547; Oct. 11.

Koudelka, John G., Antigo, Wis. Chimney-cleaner. No. 1,393,548; Oct. 11.

Kovar, Joseph J., Owatonna, Minn. Harrow-cart. No. 1,392,946; Oct. 11.

Knight, James H., Westtown, Pa. Toy. No. 1,393,544; Oct. 11.

Knowles, Frederick C. S., Freeport, N. Y. Rear signal device for vehicles. No. 1,393,291; Oct. 11.

Knuth, Edwin C., Milwaukee, Wis. Concrete pile. No. 1,393,545; Oct. 11.

Kraemer, Albert A. (See Dane, C. A., and Kraemer.)

Kraus Engine Company. (See Kraus, Otto, assignor.)

Kraus, Otto, assignor to Kraus Engine Company, New York, N. Y. Power plant. No. 1,392,947; Oct. 11.

Kraus, Otto, assignor to Kraus Engine Company, New York, N. Y. Flame-maintaining device. No. 1,392,948; Oct. 11.

Krenzer, George J., Port Washington, Wis. Radiator-draining attachment for automobiles. No. 1,393,549; Oct. 11.

Krieger, Arthur H., Los Angeles, Calif., and W. L. Jordan, New York, N. Y. Heat-insulating formed body and making same. No. 1,393,225; Oct. 11.

Kruse, Herman, Jersey City, N. J. Transfer-paper and ink therefor. No. 1,393,142; Oct. 11.

Krysanowsky, Constant J., Mount Washington, assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Opener. No. 1,393,029; Oct. 11.

Kuehn, Charles P., assignor to A. Stein & Company, Chicago, Ill. Buckle. No. 1,393,143; Oct. 11.

Kushner, Samuel, New York, N. Y. Pneumatic alarm. No. 1,393,382; Oct. 11.

La Gier, August F., assignor of one-third to J. F. Miller and one-third to I. B. Smith, Los Angeles, Calif. Sanitary can-gate. No. 1,393,689; Oct. 11.

Lackie, Oscar M., Duluth, Minn. Road-machine. No. 1,393,724; Oct. 11.

Lake Torpedo Boat Company, The. (See Barraja-Frauenfelder, Joseph, assignor.)

Lakin, William T., Long, Md. Reproducer for talking-machines. No. 1,393,293; Oct. 11.

Lamb, Peter, Winnipeg, Manitoba, Canada. Knife-cleaner. No. 1,393,449; Oct. 11.

Lambert, Henry M., Portland, Oreg. Wheel-rim. No. 1,393,030; Oct. 11.

Lamson Company, The. (See Talsey, Fred E., assignor.)

Landrivon, Joanny. (See Altwegg, J., and Landrivon.)

Langmuir, Irving, Schenectady, N. Y., assignor to General Electric Company. Method of and means for obtaining high vacua. No. 1,393,550; Oct. 11.

Large, George, assignor to Gilson Manufacturing Company, Port Washington, Wis. Fuel-pump for internal-combustion engines. No. 1,393,551; Oct. 11.

Larsen, Sofus A. E., Copenhagen, Denmark. Double tubular lock. No. 1,392,949; Oct. 11.

Laskey, William B., Marblehead, Mass. Machine and method for making candy. No. 1,393,144; Oct. 11.

Laupot, Louis. (See Robertson, C., and Laupot.)

Lau, Richard. (See Helby, C. G., Burkam, Lindquist, Riggin, Allen, and Lau.)

Lawrence, Melvin G., Revere, Mass. Thumb-tack. No. 1,392,950; Oct. 11.

Le Blond, R. K., Machine Tool Company, The. (See Groene, William F., assignor.)

Leahy, Frank E. (See Diehl, A. N., and Leahy.)

Leavitt, Henry E., Berkeley, Calif. Cooling apparatus. No. 1,393,226; Oct. 11.

Lee, Edward W., Los Angeles, Calif. Pneumatic tire. No. 1,392,951; Oct. 11.

Leduc, Joseph, and N. Gobeille, St. Hyacinthe, Quebec, Canada. Gas heating apparatus. No. 1,393,227; Oct. 11.

Leichter, Benjamin, Brooklyn, N. Y. Window or key lock. No. 1,393,628; Oct. 11.

Leighton, Henry B. (See Pharmenter, George A., assignor.)

Leonard, Frank B., Los Angeles, Calif., assignor of one-half to A. E. Beasley, Toronto, Ontario, Canada. Automobile-lock. No. 1,393,552; Oct. 11.

Leonard, Joseph E. (See Howle, E. O., and Leonard.)

Leonhardt, Martin W., Chattanooga, Tenn. Adjustable dust-collector. No. 1,393,553; Oct. 11.

Leonhardt, Martin W., Chattanooga, Tenn. Adjustable dust-collector. No. 1,393,554; Oct. 11.

Levin, Max, Chicago, Ill. Steamer. No. 1,393,725; Oct. 11.

Lewandowski, Anthony, and M. Katafiasz, Toledo, Ohio. Merry-go-round. No. 1,393,629; Oct. 11.

Libbey-Owens Sheet Glass Company, The. (See Callard, R. P., and Rhonemus, assignors.)

Liberty Company, The. (See Liberty, Saul R., assignor.)

Liberty, Saul R., assignor to The Liberty Company, Pawtucket, R. I. Bobbin-holder for shuttles. No. 1,393,145; Oct. 11.

Limoges, Laurence L., Sioux City, Iowa. Folding luggage-carrier. No. 1,393,294; Oct. 11.

Linebarger, Charles E., Chicago, Ill. Method and apparatus for making small balls or pellets. No. 1,393,383; Oct. 11.

Lindquist, David E. (See Helby, C. G., Burkam, Lindquist, Riggin, Allen, and Lau.)

Link, Maximilian W., assignor to Crane Company, Chicago, Ill. Magnetically-operated valve. No. 1,392,952; Oct. 11.

Link, Vincent, Detroit, Mich., assignor to The Studebaker Corporation. Internal-combustion engine. No. 1,393,295; Oct. 11.

Lindstadt, Otto, Madison, Nebr. Valve for water-tanks. No. 1,393,384; Oct. 11.

Lipe, Willard C., Syracuse, N. Y., and L. H. Kirk, Havre de Grace, Md. Railway motor-car. No. 1,393,146; Oct. 11.

Lockyer, Robert H., San Francisco, Calif. Faucet. No. 1,393,555; Oct. 11.

Locomotive Pulverized Fuel Company. (See Muhlfeld, John E., assignor.)

Lohr, William. (See Hough, S., and Lohr, assignors.)

Lomas, Harry, and J. Mortimer, London, England. Hypodermic syringe. No. 1,393,720; Oct. 11.

Lomax, Joseph B., Furness Vale, near Stockport, England. Finishing or lustring textile fabrics. No. 1,393,296; Oct. 11.

Lorentz, Albert M., McMechen, W. Va. Milk-strainer. No. 1,393,631; Oct. 11.

Lynn, John, New York, N. Y. Window-ventilator. No. 1,393,556; Oct. 11.

Lyttle, James D., Fenn, and S. Clark, Grangeville, Idaho. Combined road grading and leveling machine. No. 1,393,385; Oct. 11.

L-W-F Engineering Company. (See Black, Archibald, assignor.)

Magariello, John B. and J., New York, N. Y. Bed-spring. No. 1,392,954; Oct. 11.

Magariello, Joseph. (See Magariello, John B. and J.)

Magerle, Edmund, and H. Martinek, assignors of one-third to A. Vogimayer, Vienna, Austria. Device or arrangement for the continuous movement of rolling or sliding bodies. No. 1,393,231. Oct. 11.

Magnetic Pigment Company. (See Fireman, Peter, assignor.)

Manshel, Charles, Newark, N. J. Check stamping and issuing machine. No. 1,393,232; Oct. 11.

Marquart, Walter E., San Francisco, Calif. Collapsible rim. No. 1,393,302; Oct. 11.

Marriott, Burton J., Petrolia, Ontario, Canada. Window screen. No. 1,393,560; Oct. 11.

Martell, Albert A., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Plug-gage. No. 1,393,233; Oct. 11.

Martin, Fernand P. Paris, France. Apparatus for delivering materials. No. 1,393,561; Oct. 11.

Martin, Harry L., and W. C. Willis, Memphis, Tenn. Car seal. No. No. 1,393,033; Oct. 11.

Martin, Robert L., Ocala, Fla. Automobile-body with traveling and housekeeping conveniences. No. 1,392,955; Oct. 11.

Martin, Robert L., Ocala, Fla. Cooking-stove. No. 1,392,956; Oct. 11.

Martin, William L., Harvard, Ill. Automatic watering-bowl or drinking-fountain. No. 1,393,303; Oct. 11.

Martinek, Hermann. (See Magerle, E., and Martinek.)

Matchette, Frank J., Milwaukee, Wis., assignor to The Servidor Company, Wilmington, Del. Lock. No. 1,393,149; Oct. 11.

Matthews, Bessie A., et al., executrices. (See Taylor, James L.)

Matthews, Frank E., assignor to The Connecticut Tool and Engineering Company, Bridgeport, Conn. Pulley and sheath therefor. No. 1,392,957; Oct. 11.

Matthews, Joseph L., Highland Park, N. J., assignor to International Motor Company, New York, N. Y. Sand-blast nozzle. No. 1,393,562; Oct. 11.

Maurer, Anton, and J. J. Brossoit, Salt Lake City, Utah. Spare-tire holder. No. 1,393,563; Oct. 11.

McCabe, Edward F., Maplewood, N. J. Conveying system. No. 1,393,386; Oct. 11.

McCaskey Register Company, The. (Incorporated in 1914.) (See Moseley, Emerson B., assignor.)

McColl, Albert E., Dumbarton, Scotland, assignor of one-half to The General Electric Company Limited, Birmingham, England. Protective device for alternating-current electric systems. No. 1,393,228; Oct. 11.

McCornack, Herbert, Glen Ridge, assignor to Empire Cream Separator Company, Bloomfield, N. J. Milking-machine system. No. 1,393,387; Oct. 11.

McCowan, David A., Toronto, Ontario, Canada. Vending-machine. No. 1,393,147; Oct. 11.

McCulley, Thomas A., assignor of forty-five one-hundredths to M. B. Deane, San Francisco, Calif. Razor-hone. No. 1,393,297; Oct. 11.

McDonald, Leslie R., Montreal, Quebec, Canada. Automatic repeating mechanism for phonographs. No. 1,393,229; Oct. 11.

McDonald, Leslie R., Moptreal, Quebec, Canada. Automatic repeating mechanism for phonographs. No. 1,393,230; Oct. 11.

McFeggans, Daniel L., Newark, N. J. Door-stop. No. 1,393,032; Oct. 11.

McGinn, Francis W., Baltimore, Md. Mud-lug for automobile-wheels. No. 1,393,450; Oct. 11.

McGrath, Andrew F., New York, N. Y. Spring-wheel. No. 1,393,630; Oct. 11.

McGraw, Thomas H., Jr., Oakmont, Pa. Steam-separator. No. 1,393,298; Oct. 11.

McIntosh, Thomas J., Daisell, S. C. Reversible fork and rake. No. 1,393,299; Oct. 11.

McLean, Hilliard N. A., et al. (See Todd, Samuel J., assignor.)

McNaull, Mrs. Macie K. (See McNaull, William D., assignor.)

McNaull, William D., assignor to Mrs. Macie K. McNaull, Toledo, Ohio. Vehicle-tire. No. 1,392,953; Oct. 11.

McNutt, Lawrence E., assignor to The Allen Filter Company, Toledo, Ohio. Dispensing-faucet. No. 1,393,800; Oct. 11.

McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Sound-modifying device. No. 1,393,567; Oct. 11.

McQuarrie, James L., Montclair, N. J., and C. L. Goodrum, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,393,558; Oct. 11.

McQuarrie, James L., and C. L. Goodrum, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,393,559; Oct. 11.

McQuarrie, William R. D., Buffalo, N. Y. Picture spinning-top. No. 1,393,148; Oct. 11.

McVeety, Charles, Cheltenham, Pa. Hot-air heating system. No. 1,393,301; Oct. 11.

Mead, William J., Orange, Tex. Fuel-oil burner. No. 1,392,958; Oct. 11.

Meadery, Chauncey C., New York, N. Y. Aeroplane. No. 1,393,150; Oct. 11.

Meitner, Elemer, Brooklyn, assignor, by mesne assignments, to Ford Instrument Company, Incorporated, New York, N. Y. Range and bearing indicator. No. 1,392,959; Oct. 11.

Mekanisk Industri Company. (See Möller, M. W., and Harms, assignor.)

Merritt, A. T. (See Mizsell, George, assignor.)

Merritt, Frank W., Duluth, Minn. Heater. No. 1,393,224; Oct. 11.

Messersmith, Marion E., et al. (See Keller, Beler A., assignor.)

Metz, Ralph A., Baton Rouge, La. Apparatus for cooling oil or other heated liquids. No. 1,393,631; Oct. 11.

Mid-West Box Company. (See Heinrichs, Berg, assignor.)

Miller, Jacob H., Cresson, Pa. Grease-cup. No. 1,393,304; Oct. 11.

Miller, John F., et al. (See La Gier, August F., assignor.)

Miller, John O. (See Cooke, S. H., and Miller, assignors.)

Miller, Harris B., Philadelphia, Pa. Dumping hoist-vehicle. No. 1,393,151; Oct. 11.

Miller, Harry B., assignor of one-half to S. Kauffman, Syracuse, N. Y. Relief-valve for oil-cans. No. 1,393,084; Oct. 11.

Miller, William G., Raynham, Mass. Nose-guard for spectacles. No. 1,393,152; Oct. 11.

Milliken, Foster, et al., trustees. (See Milliken, Foster, assignor.)

Milliken, Foster, Lawrence, N. Y., assignor to F. Milliken, S. F. Weaver, and J. M. Reppiier, as trustees. Alloy. No. 1,393,268; Oct. 11.

Mills, Chester B., East McKeesport, Pa., assignor to Westinghouse Electric & Manufacturing Company. Making current-collector rings. No. 1,393,564; Oct. 11.

Mills, William. (See Percy, C., and Mills.)

Mitchell, George L. (See Glaudel, George, assignor.)

Mitchell, George, London, England. Apparatus for making emulsions. No. 1,393,632; Oct. 11.

Mitrovich, Adolph, San Antonio, Tex. Glass. No. 1,393,225; Oct. 11.

Mizsell, George, assignor of one-half to A. T. Merritt, Newport News, Va. Reaming-tool. No. 1,392,960; Oct. 11.

Mohawk Carpet Mills. (See Hathaway, Edgar F., assignor.)

Möller, Morten W., and A. E. Harms, assignors to Mekanisk Industri Company Ltd., Copenhagen, K, Denmark. Machine for grinding shaving-machine blades. No. 1,393,634; Oct. 11.

Moltrup, James T., Beaver Falls, Pa. Method of and apparatus for pickling rods, pipes, and the like. No. 1,393,633; Oct. 11.

Moody, Helen E., Atlantic City, N. J. Electrical brush. No. 1,393,635; Oct. 11.

Mork, Harry S., Brookline, Mass., assignor, by mesne assignments, to American La France Fire Engine Company, Inc., Elmira, N. Y. Fire-extinguisher composition. No. 1,393,236; Oct. 11.

Mork, Harry S., Brookline, Mass., assignor, by mesne assignments, to American La France Fire Engine Company, Inc., Elmira, N. Y. Fire-extinguisher composition. No. 1,393,237; Oct. 11.

Morrison, Louis A. (See Andreason, Christian, assignor.)

Morrison, Lewis E., Newark, assignor to himself, and S. H. Plum, 2d, Madison, N. J. Transfer mechanism for printing-machines. No. 1,393,036; Oct. 11.

Morrison, Lewis E., Newark, assignor to himself, and S. H. Plum, 2d, Madison, N. J. Tripping mechanism for printing machines. No. 1,393,037; Oct. 11.

Morrise, Frank E., London, England. Wind-screen. No. 1,393,239; Oct. 11.

Morris, John F., Peoria, Ill. Device for treatment by temperature. No. 1,393,153; Oct. 11.

Morris, Stephen W., assignor of one-half to Gee Electric Company, Wheeling W. Va. Press for armature-coils. No. 1,393,035; Oct. 11.

Morris, William L., Broseley, Mo. Egg-candler. No. 1,393,238; Oct. 11.

Mortimer, James. (See Lomax, H., and Mortimer.)

Morton, Henry, Wood Bay, Manitoba, Canada. Grain-cleaning machine. No. 1,393,154; Oct. 11.

Moseley, Emerson B., deceased; M. L. Moseley, administratrix, assignor to The McCaskey Register Company, (Incorporated in 1914,) Alliance, Ohio. Filing-appliance case. No. 1,393,690; Oct. 11.

Moseley, Metta L., administratrix. (See Moseley, Emerson B.)

Mossner, Peter C., Saginaw, Mich. Automatic reversing device for washing-machines. No. 1,392,961; Oct. 11.

Moyer, William W., Camden, N. J., assignor to Victor Talking Machine Company. Sound-box for talking-machines. No. 1,393,691; Oct. 11.

Mueller Metals Company. (See Helby, C. G., Burkam, Lindquist, Rigxin, Allen, and Lau, assignors.)

Muhlfeld, John E., Scarsdale, N. Y., assignor, by mesne assignments, to Locomotive Pulverized Fuel Company, Pulverized-fuel-burning locomotive. No. 1,393,240; Oct. 11.

Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Cutter-grinding machine. (Reissue.) No. 15,206; Oct. 11.

Mullins, John C., Jr., assignor of one-half to C. O. Ramsey, Coeburn, and one-fourth to I. N. Kelley, Big Stone Gap, Va. Thrust-bearing for Ford motor-shafts. No. 1,393,305; Oct. 11.

Murphy, John M., Shamokin, Pa. Support for elevator-cars. No. 1,392,962; Oct. 11.

Murphy, Walter P. (See Wolff, Frank W., assignor.)

Murray, Helge O. H. (See Thompson, Millard F., assignor.)

Murray, Thomas B., Scotstown, Scotland. Cylinder of combustion-engines. No. 1,393,636; Oct. 11.

Myers, F. E., & Brother. (See Myers, Philip A., assignor.)

Myers, Philip A., assignor to F. E. Myers & Brother, Ashland, Ohio. Power-head. No. 1,393,306; Oct. 11.

National Cash Register Company, The. (See Fuller, Frederick L., assignor.)

National Binding Machine Company. (See Anable, Frederick S., assignor.)

National Dairy Machine Company. (See Hastings, Charles E., assignor.)

Nelson, John, Chicago, Ill. Steering-wheel lock. No. 1,393,731; Oct. 11.

Nelson, Ralph M., and E. L. Aachenbach, Sellersville, Pa., assignors to United States Gauge Company, New York, N. Y. Pressure-gage. No. 1,393,155; Oct. 11.

Neth, George J., assignor to The Ecry Register Company, Dayton, Ohio. Speed-regulating device. No. 1,392,963; Oct. 11.

Neyland, Carr A., Spokane, Wash. Making type and type holders. No. 1,393,307; Oct. 11.

Neyland, Carr A., Spokane, Wash. Making type and type-holders. No. 1,393,308; Oct. 11.

Nicholson, William T., Blackpool, England. Package for belt-hooks. No. 1,393,451; Oct. 11.

Nickerson, Orin H. (See Boyton, J. C., and Nickerson.)

Nielsen, Aage W., Chicago, Ill. Can-soldering machine. No. 1,392,964; Oct. 11.

Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Pipe-cutter. No. 1,393,156; Oct. 11.

Norvell, Lorenzo, trustee. (See Dillon, Edward L., assignor.)

Nutwell, Goff N., Fresno, Calif. Can-opener. No. 1,393,630; Oct. 11.

Ohashi, Hydesaburo, assignor to Hydesaburo Ohashi & Co., Inc., New York, N. Y. Coating-machine. No. 1,393,637; Oct. 11.

Ohashi, Hydesaburo, & Co. (See Ohashi, Hydesaburo, assignor.)

Olkowski, Frank, Three Lakes, Wis. Mechanical toy. No. 1,393,638; Oct. 11.

Ollivier, Jocelyn E., La Vignette, St. Gervais les Bains, France. Propeller mechanism. No. 1,393,157; Oct. 11.

Olmschenk, Lawrence A. (See Dreher, J., and Olmschenk.)

Olsen Manufacturing Corporation. (See Olson, Emil, assignor.)

Olson, Emil, assignor to Olsen Manufacturing Corporation, Rochester, N. Y. Sash-holder. No. 1,393,300; Oct. 11.

Olson, Hans P. (See Erickson, O. F., and Olson.)

On-The-Dot-Level Device. (See Thullen, Christopher F., assignor.)

Ost, Frederick A., Minneapolis, Minn. Ratchet mechanism. No. 1,393,692; Oct. 11.

Otten, Lawrence F., Newport, Ky. Belt-buckle. No. 1,393,721; Oct. 11.

Ottl, Joseph, Oklahoma, Okla. Reversible clutch. No. 1,393,693; Oct. 11.

Ovida Co. (See Burns, Kathlyn L., assignor.)

Packard Motor Car Company. (See Vincent, Jesse G., assignor.)

Padden, Robert W., Kansas City, Mo. Vehicle-wheel. No. 1,393,694; Oct. 11.

Palmer, Eleanore L. D., New Brighton, Pa. Bathtub. No. 1,393,310; Oct. 11.

Palmer, Miguel J., et al. (See Sanchez, Leonardo, assignor.)

Pantaleone, Joseph, and M. Zoda, Trenton, N. J. Sidewalk snow-sweeper. No. 1,393,640; Oct. 11.

Parker, Alexander, Etna Mills, Calif. Debris or sediment collector. No. 1,393,389; Oct. 11.

Parker, Clark W., New York, N. Y. Brake mechanism. No. 1,393,390; Oct. 11.

Parmenter, George A., West Medford, assignor of one-half to H. B. Leighton, Cambridge, Mass. Puzzle. No. 1,393,565; Oct. 11.

Parsons, Charles A., S. S. Cook, and L. M. Douglas, Newcastle-upon-Tyne, England; said Cook and said Douglas assignors to said Parsons. Geared turbine system. No. 1,393,391; Oct. 11.

Parsons, Charles A., S. S. Cook, and L. M. Douglas, Newcastle-upon-Tyne, England; said Cook and said Douglas assignors to said Parsons. Geared turbine system. No. 1,393,392; Oct. 11.

Parsons, Charles A., S. S. Cook, and L. M. Douglas, Newcastle-upon-Tyne, England; said Cook and said Douglas assignors to said Parsons. Geared turbine system. No. 1,393,393; Oct. 11.

Patented Metalware Corporation. (See Rachlin, Max, assignor.)

Paulus, George R., assignor to The United Electric Company, Canton, Ohio. Vacuum-cleaner brush. No. 1,393,695; Oct. 11.

Paulson, Peter A., Appleton, Wis. Process and apparatus for reclaiming by-products. No. 1,393,241; Oct. 11.

Pawsat, Ewald F., assignor to Wald Manufacturing Company, Sheboygan, Wis. Flashlight-bracket for bicycles. No. 1,393,158; Oct. 11.

Pemble, William W. (See Kennon, Charles W., assignor.)

Pendleton, Harry C., Piedmont, Calif. Method and means for facilitating sealing deep wells. No. 1,393,311; Oct. 11.

Percy, Clark, South Bellingham, and W. Mills, Anacortes, assignors of one-third to C. H. Kent, Seattle, Wash. Machine for cutting can-tops. No. 1,393,159; Oct. 11.

Perfecto Gear Differential Co. (See Thompson, John A., assignor.)

Perrin, John V., Lynn, Mass., Ticket-holder. No. 1,393,696; Oct. 11.

Perry, Arthur H., De Witt, Ark. Switch. No. 1,393,312; Oct. 11.

Peteler, Adolph, Freeport, N. Y. Lifting-jack. No. 1,393,242; Oct. 11.

Peterson, John, Faribault, Minn. Table-leaf support. No. 1,393,566; Oct. 11.

Peterson, Niels J., Minneapolis, Minn. Valve-grinder. No. 1,393,567; Oct. 11.

Pfanstiehl, Carl A., Highland Park, assignor to Pfanstiehl Company, Inc., North Chicago, Ill. Puppet-valve. No. 1,393,726; Oct. 11.

Pfanstiehl Company. (See Pfanstiehl, Carl A., assignor.)

Pfingsten, John H., Milwaukee, assignor to Presto Color Company, Cudaby, Wis. Color-base for leather-finishers and making the same. No. 1,393,697; Oct. 11.

Philadelphia Textile Machinery Company, The. (See Ayres, E. B., and Bogaty, assignors.)

Philbrin Corporation. (See Brinton, William C., Jr., assignor.)

Phillips, Ross M. G., New Haven, assignor to The Phillips Time Switch Co., Shelton, Conn. Timing mechanism. No. 1,393,894; Oct. 11.

Phillips Time Switch Co., The. (See Phillips, Ross M. G., assignor.)

Platt, Walter J., San Leandro, Calif. Rotary pump. No. 1,393,698; Oct. 11.

Pickering, Joseph T., New Brighton, England. Disk wheel for automobiles. No. 1,393,729; Oct. 11.

Piersen, Edwin H., assignor to The Piersen Manufacturing Company, Topeka, Kans. Perforator. No. 1,393,243; Oct. 11.

Piersen Manufacturing Company, The. (See Piersen, Edwin H., assignor.)

Pierson, A. N., et al. (See Shepard, Wilbur L., assignor.)

Pines Manufacturing Company. (See Raleigh, James F., assignor.)

Pittsburgh Plate Glass Company. (See Wilson, Robert E., assignor.)

Pittman & Company. (See Pittman, Carl L., assignor.)

Pittman, Carl L., assignor to Pittman & Company, De Leon, Tex. Safety attachment for railway-car trucks. No. 1,393,313; Oct. 11.

Pitman, Henry L., Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,393,244; Oct. 11.

Pletscher, Otto, Albisrieden, Switzerland. Electric machine. No. 1,393,395; Oct. 11.

Plum, S. Haines 2d. (See Morrison, Lewis E., assignor.)

Porter, David E., administrator. (See Pratt, Albert B., assignor.)

Porter, Harry G. (See Joy, W. H., and Porter.)

Potter, Rutherford B., Brighton, Colo. Gradometer. No. 1,393,314; Oct. 11.

Pratt, Albert B., deceased; D. E. Porter, administrator, Lyndon Vt. Nut. No. 1,393,160; Oct. 11.

Pratt & Whitney Company. (See Müller, Friederich, assignor.) (Reissue.)

Presto Color Company. (See Pfingsten, John H., assignor.)

Priwer, Herman F., Springfield, Ohio, assignor of one-half to J. E. Galvin. Electric steel furnace. No. 1,392,965; Oct. 11.

Purcell, Charles H., and L. I. Hewes, Portland, Oreg. Pavement for roads and streets. No. 1,393,699; Oct. 11.

Pym, Charles F., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. End-lasting mechanism. No. 1,393,396; Oct. 11.

Quicksafe Manufacturing Company. (See Waller, Robert H., assignor.)

Rachlin, Max, New York, assignor to Patented Metalware Corporation, Brooklyn, N. Y. Gutter-hanger. No. 1,392,966; Oct. 11.

Racine Tool & Machine Co. (See Reinhardt, W. C., and Banker, assignors.)

Raichlen, C. Frederick. (See Schmidt, Henrik J., assignor.)
Raleigh, James F., Chicago, Ill., assignor to Pines Manufacturing Company. Shutter apparatus for radiators. No. 1,393,161; Oct. 11.
Ramage, John P., Liberton, Scotland. Envelop-making machine. No. 1,393,162; Oct. 11.
Ramsey, Charles O., *et al.* (See Mullins, John C., Jr., assignor.)
Rankin, Robert, Leamington Spa, England. Electric generator and motor. No. 1,393,038; Oct. 11.
Rasely, Warren M., Worcester, Mass. Educational toy. No. 1,393,163; Oct. 11.
Raybestos Company, The. (See Kelley, Edward F., assignor.)
Reboul, Alexandre M. J. E., Constantinople, Turkey. Folding safety-razor. No. 1,393,700; Oct. 11.
Reinhardt, William C., and O. H. Banker, assignors to Racine Tool & Machine Co., Racine, Wis. Tire-cutting machine. No. 1,393,164; Oct. 11.
Remsberg, Arthur S., Lakewood, assignor to The Chisholm-Moore Manufacturing Company, Cleveland, Ohio. Chain-shackle. No. 1,393,568; Oct. 11.
Repplier, James M., *et al.*, trustees. (See Milliken, Foster, assignor.)
Reynolds, Frank P., assignor to Ballard Knitting Co., Norristown, Pa. Take-up mechanism for knitting-machines. No. 1,393,039; Oct. 11.
Rhodmon, Thomas H., Meadville, Pa. Adjustable stand. No. 1,393,165; Oct. 11.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,393,597; Oct. 11.
Rhonemus, Clarence A. (See Callard, R. P., and Rhonemus.)
Richard, Clarence A. (See Richard, Clement C., C. A., and O. K.)
Richard, Clement C., C. A., and O. K., Detroit, Mich. Punch and die retainer. No. 1,393,040; Oct. 11.
Richard, Otis K. (See Richard, Clement C., C. A., and O. K.)
Richards, Howard N., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator. No. 1,393,398; Oct. 11.
Richardson, Albert J., Joplin, Mo. Dial. No. 1,393,569; Oct. 11.
Richardson, Brodie J., and C. S. Barber, Waterbury, Conn. Lock-latch for handbags. No. 1,392,967; Oct. 11.
Richardson, Thomas H., Lexington, N. C. Cleaning apparatus. No. 1,393,641; Oct. 11.
Ricketts, James R., Kansas City, Mo. Trolley-catcher. No. 1,393,570; Oct. 11.
Riek, Constance A., Hermann, Mo. Combined fly-swatter and brush. No. 1,393,571; Oct. 11.
Riggin, Fred L. (See Helby, C. G., Burkam, Lindquist, Riggin, Allen, and Lan.)
Ritchie, Foster, Ealing, England. Pantograph apparatus. No. 1,393,572; Oct. 11.
Ritter, John A., Lansdowne, Pa. Headlamp. No. 1,393,573; Oct. 11.
Robertson, Charles, and L. Laupot, assignors to Universal Chain Co., Inc., Stroudsburg, Pa. Apparatus for making chain-links. No. 1,393,041; Oct. 11.
Robertson, Robert R., Berkeley, Calif. Etching apparatus. No. 1,393,315; Oct. 11.
Robinson, Francis J., Aurora, Ontario, Canada. Stretcher and drier for hides and leather. No. 1,392,968; Oct. 11.
Robinson, John T., Company. (See Robinson, J. T., Gooding, and Russo, assignors.)
Robinson, John T., G. E. Gooding, and D. J. Russo, assignors to John T. Robinson Company, Boston, Mass. Paper-box machine. No. 1,392,969; Oct. 11.
Rohmiller, Aldace P., Mapleton, Iowa. Spoon-holder. No. 1,393,574; Oct. 11.
Roll, John M., assignor of one-half to C. Jacobs and one-fourth to E. E. Jacobs, Correctionville, Iowa. Tire-tread-removing device. No. 1,393,575; Oct. 11.
Roll, John M., assignor of one-half to C. Jacobs and one-fourth to E. E. Jacobs, Correctionville, Iowa. Tire-tread-removing device. No. 1,393,576; Oct. 11.
Ros-Aux Company. (See Upham, William P., assignor.)
Rosemeyer, John H., Elmira, Idaho. Cable-holding device. No. 1,393,245; Oct. 11.
Rose, William, Gainsborough, England. Apparatus feeding for both feeding and counting cigarettes for packeting, applicable also to analogous purposes. No. 1,393,642; Oct. 11.
Rossiter, William M., Sunbury, Pa. Thread-cutting shuttle. No. 1,393,643; Oct. 11.
Rotary Rod Weeder and Manufacturing Company. (See Van Patten, L. C., and Wolfe, assignors.)
Roth, Edward N., assignor to Roth Manufacturing Company, Chicago, Ill. Hose-coupling gasket. No. 1,393,316; Oct. 11.
Roth Manufacturing Company. (See Roth, Edward N., assignor.)
Roumégnère, Jean L. P., Auch, France. Hollow metal crown for artificial teeth. No. 1,393,166; Oct. 11.
Rowe, Alfred H., Winnipeg, Manitoba, Canada. Scrubbing-machine. No. 1,393,453; Oct. 11.
Rowe, Bertrand P., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Disconnecting-switch. No. 1,393,454; Oct. 11.
Royston, Ernest R. (See Bayles, E. A., and Higham, assignor.)
Rugg, Daniel M., assignor to The Gas Machinery Company, Cleveland, Ohio. Coke and gas oven. No. 1,393,455; Oct. 11.
Ruggles, William G., New York, N. Y. Orientator. No. 1,393,456; Oct. 11.
Russell, Herbert H., New Haven, Conn., assignor to The Geniet Manufacturing Company. Sewing-machine ruffler. No. 1,392,970; Oct. 11.
Russell, Floyd W., Akron, Ohio. Making pneumatic-tire shoes. No. 1,393,644; Oct. 11.
Russell, William S., St. Louis, Mo. Automatic type-cabinet. No. 1,393,317; Oct. 11.
Russo, Domenico J. (See Robinson, J. T., Gooding, and Russo.)
Ryason, Samuel M., Oquawka, Ill. Napkin-clasp. No. 1,393,577; Oct. 11.
Saal, Henry G., Chicago, Ill. Spring-motor. No. 1,393,167; Oct. 11.
Salsich, Neil E., Bethlehem, Pa. Automatic safety spring-latch. No. 1,393,246; Oct. 11.
Samain, Pierre, Cusy, France. Tubular flood or sluice gate. No. 1,393,578; Oct. 11.
Samuelson, Peter W., and W. Christofferson, Pepin, Wis. Torsion-tube hoist and holder. No. 1,392,971; Oct. 11.
Sanches, Leonardo, assignor of forty per cent. to A. Angulo and twenty per cent. to M. J. Palmer, Habana, Cuba. Safety electric signal for railways. No. 1,393,701; Oct. 11.
Sanches, Leonardo, assignor of one-half to A. Angulo, and twenty per cent. to M. J. Palmer, Habana, Cuba. Ignition device for internal-combustion engines. No. 1,393,702; Oct. 11.
Sangiuliano, Thomas, Wilkes-Barre, Pa. Nut-blanching machine. No. 1,393,168; Oct. 11.
Santa Cruz Portland Cement Co. (See Bachman, Llewellyn T., assignor.)
Sauer, John G., Rochester, N. Y. Lifting-jack. No. 1,393,247; Oct. 11.
Saunders, Harold F., Boundbrook, N. J., assignor to The Glysyn Corporation, New York, N. Y. Producing olefins. No. 1,393,248; Oct. 11.
Saunders, Harold F., Boundbrook, N. J., assignor to The Glysyn Corporation, New York, N. Y. Producing olefins. No. 1,393,249; Oct. 11.
Saxton, Thomas W., Barham, England. Means for indicating direction applicable for use with aircraft such as aeroplanes. No. 1,393,318; Oct. 11.
Saylor, Henry D. (See Kepler, George G., assignor.)
Sackren, William, Brooklyn, N. Y. Radiator-core. No. 1,393,042; Oct. 11.
Scarff, Alfred M., Croydon, England. Surgical truss. No. 1,393,722; Oct. 11.
Schermuly, Augustus W. L., Sutton, England. Pulley. No. 1,393,723; Oct. 11.
Schlatter, Gustav, and P. Boeckly, Arbon, assignor to Société Anonyme Adolphe Saurer, Arbon, Switzerland. Dumping-body for trucks, &c. No. 1,393,169; Oct. 11.
Schlenker, Oscar C., Hereford, Tex. Combined tire-carrier and rim spreader and constrictor. No. 1,393,319; Oct. 11.
Schlehr, Joseph A., Northville, S. D. Pliers and end wrench. No. 1,393,399; Oct. 11.
Schmidinger, Joseph, New York, N. Y. Combustion-stencil. No. 1,393,170; Oct. 11.
Schmidt, Henrik J., Brooklyn, N. Y., assignor to C. F. Raichlen, Bayonne, N. J. Machine for tying packages. No. 1,392,972; Oct. 11.
Schneider, John, Elizabethport, N. J. Coupling. No. 1,393,171; Oct. 11.
Schneider, Richard J., Ogallala, Nebr. Child's vehicle. No. 1,392,973; Oct. 11.
Schoenberg, Ralph A., now by judicial change of name Ralph A. Belmont, New York, N. Y., assignor to Beaver Machine and Tool Co., Inc., Newark, N. J. Pull-socket. No. 1,393,043; Oct. 11.
Schram, Oscar B., Oshkosh, Wis. Adjustable chair. No. 1,393,457; Oct. 11.
Schrans, Frederick G., Philadelphia, Pa. Metal-extrusion press. No. 1,393,579; Oct. 11.
Schrans, Frederick G., Philadelphia, Pa. Billet and rod handling means for metal-extension presses. No. 1,393,580; Oct. 11.
Schulz, Carl F., New York, N. Y. Carbureter. No. 1,393,044; Oct. 11.
Schulse, Herman E. (See Van Nostrand, C. H., and Schulse.)
Schwarz, Paul G., assignor to Drew Electric and Manufacturing Company, Indianapolis, Ind. Catenary trolley-clamping ear. No. 1,393,458; Oct. 11.
Schwarzmann, Wolfgang E., Longmeadow, and C. F. Toren, assignors to American Bosch Magneto Corporation, Springfield, Mass. Impulse-coupling. No. 1,393,703; Oct. 11.
Schwarzmann, Wolfgang E., Longmeadow, assignor to American Bosch Magneto Corporation, Springfield, Mass. Electric brush. No. 1,393,704; Oct. 11.
Schwartzlose, Noah W. (See Beylik, Franklin G., assignor.)
Schweitzer & Conrad. (See Conrad, Nicholas J., assignor.)
Scott, Ernest K. (See Hettelsater, H. C., and Scott.)
Scott, John W., Englewood, N. J., assignor to Arbuckle Brothers, New York, N. Y. Producing soluble concentrated coffee. No. 1,393,045; Oct. 11.

Scott-Paine, Hubert, Southampton, England. Construction of bodies of flying-boats and like light vessels. No. 1,393,645; Oct. 11.
Seed, William E., Preston, England. Unwinding device. No. 1,393,705; Oct. 11.
Seek, James H., Philadelphia, Pa. Supplemental air-intake device for gas-engines. No. 1,393,172; Oct. 11.
Sells, Ogden S., Buffalo, N. Y. Labeling-machine. No. 1,393,581; Oct. 11.
Semley, George B., Kenosha, Wis. Sheet-turner. No. 1,393,400; Oct. 11.
Servidor Company, The. (See Matchette, Frank J., assignor.)
Shafer, Ira, and C. A. Small, San Diego, Calif. Coating and forming machine. No. 1,393,401; Oct. 11.
Shannon, James, Canonbury, London, England. Oil-stove. No. 1,393,706; Oct. 11.
Sharbaugh, Wilbur F., Wheeling, W. Va. Safety milk-can spout. No. 1,393,250; Oct. 11.
Shear, Edward E., and W. G. Waechtler, Kingston, N. Y.; said Waechtler assignor to said Shear. Railroad safety appliance. No. 1,393,173; Oct. 11.
Sheet Steel Products Co., The. (See Baxter, Kenneth S., assignor.)
Shepard, Wilbur L., Elmwood, assignor of one-fourth to H. C. Hart, Unionville, and one-fourth to A. N. Pierson, Cromwell, Conn. Hydrocarbon-engine. No. 1,393,174; Oct. 11.
Shepard, Wilbur L., Elmwood, and E. A. Beals, Hartford, Conn. Locomotive. No. 1,393,402; Oct. 11.
Sherard, Oliver E., Emmett, Idaho. Shoe-heel. No. 1,393,175; Oct. 11.
Shoenberg, Milton H., San Francisco, Calif. Safety-switch. No. 1,393,322; Oct. 11.
Shoenberg, Milton H., San Francisco, Calif. Electric thermal control. No. 1,393,323; Oct. 11.
Shoenberg, Milton H., and G. J. Henry, San Francisco, Calif. Adjustable electric heater. No. 1,393,320; Oct. 11.
Shoenberg, Milton H., and G. J. Henry, San Francisco, Calif. Radiant heater. No. 1,393,321; Oct. 11.
Simplex Refrigerating Corporation. (See Williams, Edward T., assignor.)
Singer, Joseph, Los Angeles, Calif. Wrist-pin grinder. No. 1,393,046; Oct. 11.
Singer Manufacturing Company, The. (See Allen, Edward B., assignor.)
Slauson, Louis E., Moline, assignor to Grid-Iron-Grip Company, Rock Island, Ill. Tractor-wheel. No. 1,393,707; Oct. 11.
Slauson, Louis E., assignor to Grid-Iron-Grip Company, Rock Island, Ill. Traction-wheel. No. 1,393,708; Oct. 11.
Slauson, Louis E., assignor to Grid-Iron-Grip Company, Rock Island, Ill. Traction-shoe. No. 1,393,709; Oct. 11.
Small, Charles A. (See Shafer, I., and Small.)
Small, Frank E., Jamaica, N. Y. Magazine-crayon. No. 1,393,251; Oct. 11.
Smith, Benjamin H., Turtle Creek, Pa., assignor to Westinghouse Electric & Manufacturing Company. Wing-nut. No. 1,393,459; Oct. 11.
Smith, Clifford, Philadelphia, Pa. Resilient wheel. No. 1,393,324; Oct. 11.
Smith, George L., assignor to United States Ordnance Company, Washington, D. C. Wire fence. No. 1,393,176; Oct. 11.
Smith, Herbert E., Manchester, N. H. Vehicle-spring. No. 1,392,974; Oct. 11.
Smith, Irving R., *et al.* (See La Gier, August F., assignor.)
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,393,177; Oct. 11.
Smith, Launcelot E., South Shields, C. Zulver, London, and H. A. Thompson, North Shields, England. Liquid-fuel fittings for furnace-fronts. No. 1,393,646; Oct. 11.
Smith, Luther D., Toledo, Ohio. Electric heating element. No. 1,393,325; Oct. 11.
Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Drill-sharpener. No. 1,393,403; Oct. 11.
Smith, William S., Cambridge, Mass. Safety device for electrically-operated systems. No. 1,393,404; Oct. 11.
Società Brevetti Feriani. (See Feriani, Gaetano, assignor.)
Société Anonyme Adolphe Saurer. (See Schlatter, G. S., and Boeckly, assignors.)
Societe Chimique des Usines du Rhone, (Anciennement Gilliard P. Monnet et Cartier.) (See Altwegg, J., and Landrivon, assignors.)
Societe d'Optique et de Mecanique de Haute Précision. (See Godillon, Victor H., assignor.)
Sommer, John, Peoria, assignor to Keystone Steel & Wire Company, South Bartonville, Peoria, Ill. Bale-tie machine. No. 1,393,178; Oct. 11.
Soss, Joseph, New York, N. Y. Door. No. 1,393,047; Oct. 11.
Soteros, Louis C., and J. S. Cavalenes, Gary, Ind. Screen. No. 1,393,405; Oct. 11.
Sonsthagen, Asbjorn, Leytonstone, England. Machine for coating chocolate bonbons. No. 1,393,460; Oct. 11.
Spencer, John A., Los Angeles, Calif. Strip for correcting music. No. 1,393,710; Oct. 11.
Sperry, Arthur B., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,393,326; Oct. 11.
Spillane, Frank J., Brooklyn, N. Y. Arch for fireboxes. No. 1,396,647; Oct. 11.
Stailey, Charles E., and E. H. Blazer, Portsmouth, Ohio. Wheel. No. 1,393,711; Oct. 11.
Starr, Morton H., St. Johnsbury, Vt., assignor to E. and T. Fairbanks and Company. Dial-scale. No. 1,393,179; Oct. 11.
Stein, A., & Company. (See Kuehn, Charles P., assignor.)
Stern, Moses E., *et al.* (See Keller, Bela A., assignor.)
Stetson, Fred W., and J. L. Essex, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Removing and recovering solvent from nitrocellulose explosives. No. 1,393,713; Oct. 11.
Stever, John M. (See Beagle, William J., assignor.)
Steverson, Enoch B., Portsmouth, Va. Toy. No. 1,393,583; Oct. 11.
Steele, Charles B., Philadelphia, Pa. Convertible rolling chair. No. 1,393,461; Oct. 11.
Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Shaft-coupling and making same. No. 1,393,582; Oct. 11.
Steere, Frank W., and W. C. Woodland, Detroit, Mich. Process and means for removing suspended matter from gas. No. 1,393,712; Oct. 11.
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,392,975; Oct. 11.
Stiles, Fred M., Norristown, Pa. Ladder-hook. No. 1,393,048; Oct. 11.
Stimpson, Walter F., Detroit, Mich. Computing-scale. No. 1,392,976; Oct. 11.
Stine, Charles M. A., and J. L. Gilson, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing picric acid. No. 1,393,714; Oct. 11.
Stohr, Franz, Vienna, Austria. Manufacturing ferruginous preparations. No. 1,393,049; Oct. 11.
Stone, Clayton E. (See Dutton, W. H., and Stone.)
Stone, Frank, Slater, Mo. Lubricator. No. 1,393,584; Oct. 11.
Storer, Norman W., and R. E. Hellmund, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. System of control. No. 1,393,715; Oct. 11.
Stowe & Woodward Company. (See Wilkie, Robert J., assignor.)
Strite, George T., Minneapolis, Minn. Traction-machine. No. 1,393,462; Oct. 11.
Stuart Products Corporation. (See Askin, Joseph M., assignor.)
Stubbs, Charles T., Milwaukee, Wis. Valve-lifter. No. 1,393,180; Oct. 11.
Studebaker Corporation. (See Davenport, George R., assignor.)
Studebaker Corporation, The. (See Link, Vincent, assignor.)
Sturgis, Frank M., Forsyth, Ill. Flexible mud-lug. No. 1,393,252; Oct. 11.
Sturgis, William B., assignor to General Explosives Company, Chicago, Ill. Explosive. No. 1,393,463; Oct. 11.
Sturtevant Mill Company. (See Sturtevant, Thomas J., assignor.)
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Mixing-machine. No. 1,393,181; Oct. 11.
Sullivan Machinery Company. (See Willey, Frank E., assignor.)
Surface, Harry E., Bloomington, Ill. Wagon-dump. No. 1,393,464; Oct. 11.
Sutton, Francis A., Oakhurst, Ashford, England, assignor to C. C. Williams, Acting Chief of Ordnance, U. S. Army, trustee. Fuse for projectiles. No. 1,393,585; Oct. 11.
Swan, Gertrude S., Detroit, Mich. Combined card game and educational apparatus. No. 1,392,977; Oct. 11.
Swanson, Peter, Ely, Minn. Auxiliary arch-bar. No. 1,393,716; Oct. 11.
Swift, George W., Jr., Incorporated. (See Duval, Ernest H., assignor.)
Taft-Peirce Manufacturing Company, The. (See Martell, Albert A., assignor.)
Taggart, Dawson M., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,393,465; Oct. 11.
Taggart, Joseph W. (See Baker, James E., assignor.)
Taisey, Fred R., Lowell, assignor to The Lamson Company, Boston, Mass. Pneumatic-despatch-tube carrier. No. 1,393,466; Oct. 11.
Tait, Godfrey M. S., Washington, D. C. Apparatus for the progressive heating or cooling of milk-bottles and other containers. No. 1,393,717; Oct. 11.
Talley, John E., and J. W. Thompson, Philadelphia, Pa. Display apparatus. No. 1,393,050; Oct. 11.
Tamamura, Yusuke, Tokyo-fu, Japan. Differential clip for aerial ropeways. No. 1,392,978; Oct. 11.
Tamborello, Frank, Milwaukee, Wis. Vehicle brake mechanism. No. 1,393,051; Oct. 11.
Tanner, Arthur R. W., Little Sutton, England. Nail-container and nail-delivering device. No. 1,393,586; Oct. 11.
Tanner, Earl T., Des Moines, Iowa. Automobile-lock. No. 1,393,182; Oct. 11.
Tanking, William T., Jr., Racine, Wis. Support. No. 1,393,052; Oct. 11.

Tate, Joshua A., St. Louis, Mo. Burglar-trap. No. 1,393,183; Oct. 11.

Tate, Ralph M., *et al.* (See Todd, Samuel J., assignor.)

Taufer, Fred, Meadow Lands, Pa. Game. No. 1,392,979; Oct. 11.

Taylor, Arthur W., Manchester, England. Apparatus for displaying garments and like articles. No. 1,393,327; Oct. 11.

Taylor, Burt E., Mount Vernon, assignor to The Borden Company, New York, N. Y. Can-charging apparatus. No. 1,393,406; Oct. 11.

Taylor, Emma A., *et al.*, executrices. (See Taylor, James L.)

Taylor, James L., deceased, Poughkeepsie, N. Y.; E. A. Taylor and B. A. Matthews, executrices. Clamp. No. 1,393,718; Oct. 11.

Taylor, Samuel W., assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Bottle-capping apparatus. No. 1,392,980; Oct. 11.

Teehan, John F., Brockton, Mass. Shoe and making the same. No. 1,393,730; Oct. 11.

Tenney, Fred, Buckingham, England. Shuttlecock device for use in games. No. 1,393,407; Oct. 11.

Tenney, Fred, Doncaster, England. Game. No. 1,393,408; Oct. 11.

Thatcher, Charles J., New York, N. Y. Producing separators. No. 1,393,467; Oct. 11.

Thayer, Burt W., Minneapolis, Minn. Undergarment. No. 1,393,468; Oct. 11.

Thew Shovel Company, The. (See Harris, Hollis H., assignor.)

Thompson, Ethel G., Minneapolis, Minn. Doll figure. No. 1,392,981; Oct. 11.

Thompson, Herbert A. (See Smith, L. E., Zulver, and Thompson.)

Thompson, John A., Sedro Woolley, assignor to Perfecto Gear Differential Co., Seattle, Wash. Tractor driving mechanism. No. 1,393,409; Oct. 11.

Thompson, John W. (See Talley, J. E., and Thompson.)

Thompson, Millard F., assignor of one-half to H. O. H. Murray, Washington, D. C. Solution-identifying means for medicinal preparation. No. 1,393,253; Oct. 11.

Thompson, Robert, Bakerstown, Pa. Corn-husking table. No. 1,393,645; Oct. 11.

Thompson, Robert H., Brookline, Mass. Time-stamp. No. 1,393,410; Oct. 11.

Throop, William D., Norwich, Conn. Electric switch. No. 1,393,649; Oct. 11.

Thullen, Christopher F., Chicago, Ill., assignor to On-The-Dot-Level Device. Level device. No. 1,393,328; Oct. 11.

Tillman, Ferdinand J., St. Louis, Mo. Hair-cutting device. No. 1,393,053; Oct. 11.

Tinker, Frank, Erdington, Birmingham, England. Production of petrol. No. 1,393,184; Oct. 11.

Titus, Bliss E. (See Bunnell, G. H., and Titus, assignor.)

Todd, Samuel J., assignor of one-fourth to H. N. A. McLean and one-fourth to R. M. Tate, Detroit, Mich. Puncture-proof shoe for pneumatic tires. No. 1,393,185; Oct. 11.

Tokheim Oil Tank & Pump Company, The. (See Dutton, W. H., and Stone, assignors.)

Toren, Charles F. (See Schwarzmann, W. E., and Toren.)

Townley, Richard E., assignor of two-fifths to H. F. Graber, Cincinnati, Ohio. Coal-furnace lighter. No. 1,393,469; Oct. 11.

Tracy, Atlee H. (See Welch, W. J., and Tracy.)

Trood, Samuel, Pittsburgh, Pa. Oven. No. 1,393,650; Oct. 11.

Trowbridge, Emory E., Kansas City, Kans. Drain-tile. No. 1,393,329; Oct. 11.

Trumbull Electric Manufacturing Company, The. (See Getchell, Benjamin E., assignor.)

Turnbull, Andrew, Santa Ana, Calif. Resilient wheel. No. 1,393,651; Oct. 11.

Turner, Giles M., Milwaukee, Wis. Material-rack. No. 1,393,054; Oct. 11.

Turner, James T., Atlanta, Ga. Machine for making ice-cream cones. No. 1,393,587; Oct. 11.

Tuttle, Henry A., Taunton, Mass. Reversing-gearing. No. 1,392,982; Oct. 11.

Tuttle, Henry A., Taunton, Mass. Reversing-gearing. No. 1,392,983; Oct. 11.

Tuttle, Henry A., Upton, Mass. Reversing-gearing. No. 1,392,984; Oct. 11.

Tuttle, Henry A., Upton, Mass. Reversing-gearing. No. 1,392,985; Oct. 11.

Tuttle, Henry A., Upton, Mass. Reversing-gearing. No. 1,392,986; Oct. 11.

Tuttle, William R., Rochester, N. Y., Dispensing-machine. No. 1,393,588; Oct. 11.

Tuttle, William R., Rochester, N. Y. Dispensing-machine. No. 1,393,589; Oct. 11.

Ulli, Albrecht, Le Locle, Switzerland. Hat-fastening device. No. 1,393,186; Oct. 11.

Ulrich, John, St. Louis, Mo. Vent-valve. No. 1,393,653; Oct. 11.

Underwood Computing Machine Company. (See Pitman, Henry L., assignor.)

Underwood Computing Machine Company. (See Waldheim, John, assignor.)

Underwood Typewriter Company. (See Helmond, William F., assignor.)

Underwood Typewriter Company. (See Smith, Jesse A. B., assignor.)

Underwood Typewriter Company. (See Stickney, Burnham C., assignor.)

United Electric Company, The. (See Paulus, George R., assignor.)

United Shoe Machinery Corporation. (See Beaumont, Ernest C., assignor.)

United Shoe Machinery Corporation. (See Black, George H., assignor.)

United Shoe Machinery Corporation. (See Johnson, Merton E., assignor.)

United Shoe Machinery Corporation. (See Pym, Charles F., assignor.)

United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)

United States Gauge Company. (See Nelson, E. M., and Aschenbach, assignors.)

United States Ordnance Company. (See Smith, George L., assignor.)

Union Special Machine Company. (See Chalman, John E., assignor.)

Union Switch & Signal Company, The. (See Day, Albert Y. T., assignor.)

Universal Chain Co. (See Robertson, C., and Laupot, assignors.)

Unruh, Albert A., Salem, Oreg. Automobile-brake. No. 1,392,987; Oct. 11.

Upham, William P., Keene, N. H., assignor to Ros-Aux Company, Boston, Mass. Sizing and making the same. No. 1,392,988; Oct. 11.

Vadea, Willie T., Jr., Dayton, Tex. Mouse and rat poisoner. No. 1,393,590; Oct. 11.

Van der Straeten, Ivan, Liege, Belgium. Trolley-head. No. 1,393,254; Oct. 11.

Van Huele, Maxime L., New York, N. Y. Adjustable hat-lining or bandeau. No. 1,393,652; Oct. 11.

Van Nostrand, Charles H., Orange, and H. E. Schulse, Jersey City, N. J.; said Schulse assignor to said Van Nostrand. Making fibrous filtering films. No. 1,392,989; Oct. 11.

Van Patten, Louis C., and J. B. Wolfe, assignors to Rotary Rod Weeder and Manufacturing Company, Incorporated, Cheney, Wash. Rotary-rod weeder. No. 1,393,068; Oct. 11.

Vaughan, Jay W., Chicago, Ill. Band-saw. No. 1,392,990; Oct. 11.

Veeder, Albert L., Idaho Falls, Idaho. Haystacker. No. 1,392,991; Oct. 11.

Venugraph Company, The. (See Venuti, P. B., and Arnold, assignors.)

Venuti, Peter B., and C. H. Arnold, assignors to The Venugraph Company, Dayton, Ohio. Multiple-view camera. No. 1,393,411; Oct. 11.

Victor Talking Machine Company. (See Moyer, William W., assignor.)

Victory Hammered Piston Ring Company. (See Kistner, Herman, assignor.)

Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Clutch. No. 1,393,056; Oct. 11.

Voglmayer, Adolf. (See Magerle, E., and Martinek, assignors.)

Vollmer, John, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gun-barrel with a breech-piece screwed on an A tube. No. 1,393,057; Oct. 11.

Von Recklinghausen, Max, assignor to Air Reduction Company, New York, N. Y. Heat-interchanger. No. 1,393,462; Oct. 11.

Voss & Stern. (See Katz, Max, assignor.)

Waechtler, William G. (See Shear, E. E., and Waechtler.)

Wald Manufacturing Company. (See Pawsat, Ewald F., assignor.)

Waldheim, John, Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,393,187; Oct. 11.

Wales Company, The. (See Wales, Nathaniel B., assignor.)

Wales, Nathaniel B., Boston, Mass., assignor, by mesne assignments, to The Wales Company, Kalamazoo, Mich. Automatic heating system. No. 1,393,654; Oct. 11.

Waller, Robert H., assignor, by mesne assignments, to Quickmafe Manufacturing Company, Nashville, Tenn. Can-opener. No. 1,393,412; Oct. 11.

Wallentz, Frank, Chicago, Ill. Container. No. 1,393,413; Oct. 11.

Walter, Robert, St. Louis, Mo. Container. No. 1,393,591; Oct. 11.

Warner, Leroy J., Toledo, Ohio. Garden-tractor. No. 1,392,992; Oct. 11.

Warner Manufacturing Company. (See Cadman, Addi B., assignor.)

Washburne, James V., Fulton, N. Y. Two-part dispensing desk device. No. 1,392,993; Oct. 11.

Washington Iron Works. (See Berger, Knute, assignor.)

Waterbury Farrel Foundry and Machine Company, The. (See Candee, Zenas P., assignor.)

Watkinson, Albert, Kyneton, Australia. Indicator means for use on recreation-grounds or race-courses. No. 1,393,414; Oct. 11.

Watres, Lewis S., Scranton, Pa., assignor of one-half to R. C. Adams, Forest Hills, N. Y. Throttle-valve indicator. No. 1,392,994; Oct. 11.

Wayne Oil Tank and Pump Company. (See Baker, Linnaeus E., assignor.)

Weaver, S. Fullerton, *et al.*, trustee. (See Milliken, Foster, assignor.)

Weber, Jacob H., Brooklyn, N. Y. Phonograph-cabinet. No. 1,393,470; Oct. 11.

Wegel, Raymond L., assignor to Western Electric Company, Incorporated, New York, N. Y. Submarine signaling. No. 1,393,471; Oct. 11.

Welch, Jerome W., Sergeant Bluff, Iowa. Concrete structure having waterproofing reinforcement. No. 1,393,592; Oct. 11.

Welch, Walter J., and A. H. Tracy, assignors to H. M. Byllesby & Company, Chicago, Ill. Electrical insulator. No. 1,393,330; Oct. 11.

Welch, W. M., Manufacturing Company. (See Brown, Hugh E., assignor.)

Wenschow, Karl. Berlin-Lichterfelde, assignor to A. Deichmann, Cologne, Germany. Forming relief-maps, pictures, and the like. No. 1,393,255; Oct. 11.

Wessel, Caper J. (See Adair, Elmer, assignor.)

Western Electric Company. (See Clausen, Henry P., assignor.)

Western Electric Company. (See Dodge, William L., assignor.)

Western Electric Company. (See Egerton, Henry C., assignor.)

Western Electric Company. (See Goodrum, Charles L., assignor.)

Western Electric Company. (See Hosford, William F., assignor.)

Western Electric Company. (See McQuarrie, James L., assignor.)

Western Electric Company. (See McQuarrie, J. L., and Goodrum, assignor.)

Western Electric Company. (See Sperry, Arthur B., assignor.)

Western Electric Company. (See Taggart, Dawson M., assignor.)

Western Electric Company. (See Wegel, Raymond L., assignor.)

Western Electric Company. (See Williams, Samuel B., Jr., assignor.)

Westinghouse Electric & Manufacturing Company. (See Brahmer, Leland F., assignor.)

Westinghouse Electric & Manufacturing Company. (See Hall, Arthur J., assignor.)

Westinghouse Electric & Manufacturing Company. (See Hellmund, Rudolf E., assignor.)

Westinghouse Electric & Manufacturing Company. (See Kemp, Robert, assignor.)

Westinghouse Electric & Manufacturing Company. (See Mills, Chester B., assignor.)

Westinghouse Electric & Manufacturing Company. (See Richards, Howard N., assignor.)

Westinghouse Electric & Manufacturing Company. (See Rowe, Bertrand P., assignor.)

Westinghouse Electric & Manufacturing Company. (See Smith, Benjamin H., assignor.)

Westinghouse Electric and Manufacturing Company. (See Storer, N. W., and Hellmund, assignors.)

Wheeler Condenser and Engineering Company. (See Christie, Evi W., assignor.)

Wheeler, Portius R., Peoria, Ill. Internal-combustion engine. No. 1,393,593; Oct. 11.

Wheeler, Seth, Castleton, N. Y. Machine for producing interfolded paper-packages. No. 1,393,415; Oct. 11.

Whitacre, James E., Rockford, Ill. Humidifier. No. 1,393,058; Oct. 11.

Whiteman, Allen C., La Crosse, Kans. Lacing device. No. 1,393,188; Oct. 11.

Whitney, Maurice P., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,392,995; Oct. 11.

White, Albert J., Toronto, Ontario, Canada. Picture-frame vise. No. 1,393,059; Oct. 11.

White, Everett H., St. Paul, Minn. Heat-regulator. No. 1,393,060; Oct. 11.

White, S. S., Dental Manufacturing Company, The. (See Heck, George D., assignor.)

White, William C., Schenectady, N. Y., assignor to General Electric Company. Means for producing high-frequency oscillations. No. 1,393,594; Oct. 11.

Wickstrom, Alfred, assignor of one-fourth to F. Bain and one-fourth to J. E. Bain, Minneapolis, Minn. Block-forming machine. No. 1,393,189; Oct. 11.

Wilkie, Robert J., Newton, assignor to Stowe & Woodward Company, Newton Upper Falls, Mass. Bowling-pin. No. 1,393,655; Oct. 11.

Willey, Charles E., Louisville, Ky. Electric-generator brush-holder. No. 1,392,996; Oct. 11.

Willey, Frank E., Claremont, N. H., assignor to Sullivan Machinery Company. Electric fuse. No. 1,393,281; Oct. 11.

Willis, William C. (See Martin, H. L., and Willis.)

Williams, Clarence C., Acting Chief of Ordnance, trustee. (See Sutton, Francis A., assignor.)

Williams, Edward T., Brooklyn, N. Y., assignor to Simplex Refrigerating Corporation. Refrigerating-machine. No. 1,392,997; Oct. 11.

Williams, Frank P., assignor to E. E. Gudka Mfg. Co., Detroit, Mich. Metal desk. No. 1,392,998; Oct. 11.

Williams, Harold E., Carthage, Mo. Tag-holder. No. 1,392,999; Oct. 11.

Williams, Harry, Return, Va. Tide-motor. No. 1,393,472; Oct. 11.

Williams, Samuel B., Jr., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Call-distributing system. No. 1,393,727; Oct. 11.

Williams, Samuel B., Jr., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,393,728; Oct. 11.

Wilson, Samuel T., Brooklyn, N. Y. Matrix-scorching oven. No. 1,393,473; Oct. 11.

Wilson, Dalton K., Waterloo, Iowa. Cultivator. No. 1,393,001; Oct. 11.

Wilson, Robert E., Cambridge, Mass., assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Manufacture of lead arsenate. No. 1,393,474; Oct. 11.

Wilson, Walter W., San Francisco, Calif. Combined spout and valve for liquid-containers. No. 1,393,331; Oct. 11.

Wimmer, Hugo, Bath, Me. Rotary brush. No. 1,393,332; Oct. 11.

Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on heel-lifts or the like. No. 1,393,062; Oct. 11.

Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Trimming-machine. No. 1,393,656; Oct. 11.

Wirth-Frey, Elias, Aarau, Laurenzvorstadt, Switzerland. Heat-interchange device. No. 1,393,475; Oct. 11.

Wodrich, Frank W., Evanston, Ill. Formograph. No. 1,393,000; Oct. 11.

Wolfe, Joel B. (See Van Patten, L. C., and Wolfe.)

Wolff, Frank W., New Kensington, Pa., assignor to W. P. Murphy, New York, N. Y. Railway-car. No. 1,393,333; Oct. 11.

Wolfram, Andrew, Dormont, Pa. Machine for making nuts. No. 1,393,063; Oct. 11.

Wolffsohn, Lionel M., (now by judicial change of name Lionel M. Woolson,) Hoboken, N. J., assignor, by mesne assignments, to Bijur Motor Appliance Company. Engine-starting apparatus. No. 1,393,595; Oct. 11.

Wolffsohn, Lionel M., (now by judicial change of name Lionel M. Woolson,) Union, N. J., assignor, by mesne assignments, to Bijur Motor Appliance Company. Electric system for motor-vehicles and the like. No. 1,393,596; Oct. 11.

Wood, Louis E., Farrell, Pa. Oil and grease gun. No. 1,393,001; Oct. 11.

Wood, Walter W., Seattle, Wash. Gravity-hinge. No. 1,393,190; Oct. 11.

Woodland, William C. (See Steere, F. W., and Woodland.)

Woodward, Arthur C., Cranford, assignor to The A. & F. Brown Company, Elizabethport, N. J. Shaft-coupling. No. 1,393,064; Oct. 11.

Wright, Chester D., Denver, Colo. Bicycle-pedal. No. 1,393,256; Oct. 11.

Wright, James C., Colorado Springs, Colo. Rock-drill. No. 1,393,257; Oct. 11.

Würth, Paul & Compagnie (Societe en Commandite par Actions). (See Zender, Pierre, assignor.)

Young, Ernest A., Cleveland, Ohio. Welting. No. 1,393,476; Oct. 11.

Young, Ernest A., Cleveland, Ohio. Making welts. No. 1,393,477; Oct. 11.

Young, Ernest A., Cleveland, Ohio. Welt or rand. No. 1,393,478; Oct. 11.

Young, Walter J., St. Louis, Mo. Individual-record ejector for graphophone-cabinets. No. 1,393,065; Oct. 11.

Youngquist, Henry W., Manchester, N. H., assignor to Draper Corporation, Hopedale, Mass. Rocker-shaft support for looms. No. 1,393,416; Oct. 11.

Zaremba Company. (See Hughes, Burton S., assignor.)

Zarucha, Robert M., Waterbury, Conn. Radiator for motor-vehicles. No. 1,393,479; Oct. 11.

Zeits, Ernest. (See Heindl, Stephen O., assignor.)

Zender, Pierre, assignor to Paul Würth & Compagnie (Societe en Commandite par Actions), Luxemburg-Hollerich, Grand Duchy of Luxemburg. Apparatus for charging shaft-furnaces. No. 1,393,480; Oct. 11.

Zoda, Michael. (See Pantaleone, J., and Zoda.)

Zulver, Cornelis. (See Smith, L. E. Zulver, and Thompson.)

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Adriance, Adrian D., Brooklyn, N. Y. Toy bow. No. 59,317; Oct. 11.
Akron Universal Tire and Rubber Company, The. (See Baker, Corol E., assignor.)
Allen, John E., Big Creek, Calif. Automobile-body. No. 59,318; Oct. 11.
American Chain Company. (See Benton, Donald L., assignor.)
American Gas-Accumulator Company. (See Meden, Elof H., assignor.)
Andrews, Frank W., Wapakoneta, Ohio. Fire-extinguisher. No. 59,319; Oct. 11.
Attwood, Charles F., Grand Rapids, Mich. Automobile window-bracket. No. 59,320; Oct. 11.
Badge, Francis J. (See Keller, J. F., and Badge.)
Baker, Corol E., Akron, assignor to The Akron Universal Tire and Rubber Company, Medina, Ohio. Rubber-tire casing. Nos. 59,321–2; Oct. 11.
Bartolowsky, Jerome, Oakland, Calif. Toy whistle. No. 59,323; Oct. 11.
Bauer, Frederick C., Sr., Camden, N. J. Spike. No. 59,324; Oct. 11.
Bellows, Warren S., Worcester, Mass. Tool. No. 59,325; Oct. 11.
Benbow, John, and E. Mason, assignors of one-third to W. R. Stanfield, Union, Iowa. Drain-cock-opening tool. No. 59,326; Oct. 11.
Benton, Donald L., Adrian, Mich., assignor to American Chain Company, Inc. Automobile-buffer. No. 59,327; Oct. 11.
Berge, Joseph, assignor to Champion Ignition Company, Flint, Mich. Speedometer face-plate. No. 59,328; Oct. 11.
Carlson, John W., Chicago, Ill., assignor to Chicago Novelty Mfg. Co. Toy. No. 59,329; Oct. 11.
Cavanaugh, James P., and S. C. Porter, assignors of one-third to I. Z. Dunwoody, Denver, Colo. Radiator-cap. No. 59,330; Oct. 11.
Caviness, Edwin A., Battle Creek, Mich. Phonograph-cabinet. Nos. 59,331–2; Oct. 11.
Champion Ignition Company. (See Berge, Joseph, assignor.)
Chicago Novelty Mfg. Co. (See Carlson, John W., assignor.)
Clark, George S., Kalamazoo, and P. B. Snyder, East Lansing, Mich.; said Clark assignor to said Snyder. Thermometer. No. 59,333; Oct. 11.
Clonser, Clarence J., Columbus, Ohio. Toy rocker. No. 59,334; Oct. 11.
Cobb, William M., assignor to Zion Institutions and Industries, Zion, Ill. Child's velocipede. Nos. 59,335–6; Oct. 11.
Conley, Edward R., Springville, N. Y. Phonograph-cabinet. No. 59,337; Oct. 11.
Cooper, Frank J., San Francisco, Calif. Folder. No. 59,338; Oct. 11.
De Tamble, Edward S., assignor to Racine Accessories Manufacturing Co., Racine, Wis. Whistle. No. 59,340; Oct. 11.
Desha, Orville U., Fort Collins, Colo. Frame for spectacles. No. 59,339; Oct. 11.
Dunwoody, Isaac Z. (See Cavanaugh, J. P., and Porter, assignors.)
Duples, Victor J., Dallas, Tex. Automobile-radiator cap. No. 59,341; Oct. 11.
Fageol, Rollie B., Oakland, Calif. Motor-vehicle fender. No. 59,342; Oct. 11.
Fahys, Joseph & Company. (See Gordon, Peter T., assignor.)
Ferry, Eudora B., Murray, Idaho. Wheeled toy. Nos. 59,343–4; Oct. 11.
Gaisman, Henry J., New York, N. Y. Safety-razor blade. No. 59,345; Oct. 11.
Gill, Helon V., Spring Valley, Minn. Bolt. No. 59,346; Oct. 11.
Gordon, Peter J., Sag Harbor, assignor to Joseph Fahys & Company, New York, N. Y. Handle for a spoon, fork, or similar article. No. 59,347; Oct. 11.
Hebert, Joseph H., Columbus, Ohio. Cleaning-tool. No. 59,348; Oct. 11.
Hermanovich, Charles, Chicago, Ill. Automobile-truck body. No. 59,349; Oct. 11.
Hillman, Ernest C., Los Angeles, Calif. Sun and rain shield. No. 59,350; Oct. 11.
Hine, William C., Cleveland, Ohio. Pressed-metal wheel. No. 59,351; Oct. 11.
House, Henry A., Jr., assignor to Wire Wheel Corporation of America, Buffalo, N. Y. Hub-shell for wire wheels. No. 59,352; Oct. 11.
International Silver Co. (See Prétat, Frederick E., assignor.)
International Silver Co. (See Strohbaker, Gustave, assignor.)
James, Sidney, Niagara Falls, N. Y., assignor to Simeon L. and George H. Rogers Company. Handle of a spoon, a knife, or a fork. Nos. 59,352–4; Oct. 11.
Kaftting, Herbert A., Galt, Ontario, Canada. Blind-holding windshield-clip. No. 59,355; Oct. 11.
Kallander, Gustaf J., Seattle, Wash. Teetering toy. No. 59,356; Oct. 11.
Kalenborn, Arlon, San Francisco, Calif. Cabinet. No. 59,357; Oct. 11.
Kapey, Carl, Philadelphia, Pa. Gear-cover. No. 59,358; Oct. 11.
Kawanami, James M., Stockton, Calif. Automobile. No. 59,359; Oct. 11.
Keller, Joseph F., New York, and F. J. Badge, Woodhaven, assignors to Keller Mechanical Engraving Co., Brooklyn, N. Y. Circular slide-rule. No. 59,360; Oct. 11.
Keller Mechanical Engraving Co. (See Keller, J. F., and Badge, assignors.)
Klems, Albert A., Detroit, Mich. Grease-gun. No. 59,361; Oct. 11.
Larkins, William B., San Rafael, Calif. Corner-piece for vehicle-tops. No. 59,362; Oct. 11.
Litchfield, Amon L., Toledo, Ohio. Radiator-cap. No. 59,363; Oct. 11.
Low, Arthur B., Denver, Colo. Casing for tire-gages. No. 59,364; Oct. 11.
Lynch, Charles H., Seattle, Wash. Name-plate. No. 59,365; Oct. 11.
Martin, Patrick A., Birmingham, England. Golf-ball. No. 59,366; Oct. 11.
Mason, Edwin. (See Benbow, J., and Mason.)
McCarthy, William B., assignor to The Rostand Manufacturing Company, Milford, Conn. Tubing for automobile-windshield frames. No. 59,367; Oct. 11.
Meden, Elof H., Short Hills, assignor to American Gas-Accumulator Company, Elizabeth, N. J. Welding-blowpipe or similar article. No. 59,368; Oct. 11.
Metallic Industries. (See Tully, James K., assignor.)
Moffat, Frederick W., Weston, Ontario, Canada. Sectional support for electric heating elements. Nos. 59,369–70; Oct. 11.
Nelson, Charles, Hoffman, Minn. Wrecking-bar. No. 59,371; Oct. 11.
Newman, Arthur S. (See Oster, John H., assignor.)
Oster, John H., assignor to A. S. Newman, Cleveland, Ohio. Cuff-button. No. 59,372; Oct. 11.
Patterson, John M., Rochester, N. Y. Automobile license-plate. No. 59,374; Oct. 11.
Pfeiffer, William L., assignor to W. J. Woerner, Rochester, N. Y. Dish-wheel. No. 59,375; Oct. 11.
Porter, Samuel C. (See Cavanaugh, J. P., and Porter.)
Prétat, Frederick E., Waterbury, assignor to International Silver Co., Meriden, Conn. Handle for a spoon, fork, or similar article. No. 59,376; Oct. 11.
Racine Accessories Manufacturing Co. (See De Tamble, Edward S., assignor.)
Rapattoni, Ernest, Los Angeles, Calif. Automobile-body. No. 59,373; Oct. 11.
Rogers, Simeon L. and George H., Company. (See James, Sidney, assignor.)
Rostand Manufacturing Company, The. (See McCarthy, William B., assignor.)
Rush, Clara O., assignor to M. A. Rush, San Francisco, Calif. Automobile-steering-wheel lock. No. 59,377; Oct. 11.
Rush, Milton A. (See Rush, Clara O., assignor.)
Saul, Tom W., Seattle, Wash. Milk-bottle-stopper remover. No. 59,378; Oct. 11.
Schofield, George L., Frederick, Md. Traction-tread. No. 59,379; Oct. 11.
Serafin, Romano, Hartford, Conn. Power-stick clamp for looms. No. 59,380; Oct. 11.
Shipherd, Neva A., Omaha, Nebr. Computing apparatus. No. 59,381; Oct. 11.
Shirley, George E., Alba, Mo. Fine-cleaning blade. No. 59,382; Oct. 11.
Sholin, Charles, San Francisco, Calif. Washboard. No. 59,383. Oct. 11.
Sleicher, William N., Troy, N. Y. Anchor-yoke for non-skid chains. No. 59,384; Oct. 11.
Smith, Irving V., assignor to The Williams Brothers Manufacturing Company, Glastonbury, Conn. Handle for a spoon, fork, and similar article. No. 59,385; Oct. 11.
Snyder, Plummer B. (See Clark, G. S., and Snyder, assignors.)
Squire, Clark, Puyallup, Wash. Name-plate for automobiles. No. 59,386; Oct. 11.
Standard Brass Casting Co. (See Wuesthoff, Maximillian W., assignor.)
Standeld, William R. (See Benbow, J., and Mason, assignors.)
Stewart-Warner Speedometer Corporation. (See Van Guilder, Walter, assignor.)

Stewart-Warner Speedometer Corporation. (See Whittington, Frederik G., assignor.)
Strohbaker, Gustave, Wallingford, assignor to International Silver Co., Meriden, Conn. Handle for a spoon, fork, or similar article. No. 59,387; Oct. 11.
Tkachuk, Leon Aldergrove, British Columbia, Canada. Sled. No. 59,388; Oct. 11.
Tully, James K., assignor to Metallic Industries, Inc., St. Louis, Mo. Child's velocipede. No. 59,389; Oct. 11.
Universal Shoe Plate Company, The. (See West, Mansfield M., assignor.)
Van Guilder, Walter, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Radiator-cap. Nos. 59,390–1; Oct. 11.
Van Guilder, Walter, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Radiator-cap with temperature-indicator. No. 59,392; Oct. 11.
Weldon, Green J., Anniston, Ala. Vehicle-body. No. 59,393; Oct. 11.
West, Mansfield M., assignor to The Universal Shoe Plate Company, Cleveland, Ohio. Shoe-plate. No. 59,394; Oct. 11.
Whittington, Frederik G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Radiator-cap. No. 59,395; Oct. 11.
Williams Brothers Manufacturing Company, The. (See Smith, Irving V., assignor.)
Williams, John G., West Brownsville, Pa. Tool. No. 59,396; Oct. 11.
Wilson, Thomas F., Providence, R. I. Crank-case arm. No. 59,397; Oct. 11.
Wire Wheel Corporation of America. (See House, Henry A., Jr., assignor.)
Woerner, William J. (See Pfeiffer, William L., assignor.)
Woodberry, Charles C., Cincinnati, Ohio. Automobile-radiator curtain-hood. No. 59,398; Oct. 11.
Wuesthoff, Maximillian W., San Francisco, assignor to Standard Brass Casting Co., Oakland, Calif. Bath-cock. No. 59,399. Oct. 11.
Wyeth, Nathaniel, Cleveland Heights, Ohio. Vehicle spring suspension. No. 59,400; Oct. 11.
Zion Institutions and Industries. (See Cobb, William M., assignor.)

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Adams, Harry E., Haverhill, Mass. Leather shoes. No. 147,255; Oct. 11.
American Incubator Manufacturing Co., New Brunswick, N. J. Incubators and brooders. No. 147,256; Oct. 11.
American Kardex Company, Tonawanda, N. Y. Card-index, record, and filing systems, &c. Nos. 147,257–60; Oct. 11.
American Milk Products Corporation, New York, N. Y. Sweetened condensed milk. No. 147,262; Oct. 11.
American Milk Products Corporation, New York, N. Y. Unsweetened evaporated milk. No. 147,263; Oct. 11.
American Milk Products Corporation, New York, N. Y. Sweetened condensed milk. No. 147,264; Oct. 11.
American Milk Products Corporation, New York, N. Y. Unsweetened evaporated milk. No. 147,267; Oct. 11.
American Rolling Mill Company, The, Middletown, Ohio. Certain products of iron, of steel, and of alloys of iron. No. 147,265; Oct. 11.
Ammidown, Fred D., Boston, Mass. Hair-nets. No. 147,266; Oct. 11.
Art Knit Hosiery Company, Philadelphia, Pa. Hosiery. No. 147,267; Oct. 11.
Atlas Bolt & Screw Co., The, Cleveland, Ohio. Bolts, screws, studs, rivets, nuts, and clevis-pins. No. 147,268; Oct. 11.
Baines Engineering Company, The, Canal Dover, Ohio. Tractors. No. 147,269; Oct. 11.
Barclay & Co., Wilmington, Del., and New York, N. Y. Soaps. No. 147,270; Oct. 11.
Baren, Lehrman & Berler, Inc., New York, N. Y. Men's clothing consisting of suits and overcoats. No. 147,271; Oct. 11.
Bernhard Ulmann Co., Inc., New York, N. Y. Certain articles of clothing. No. 147,421; Oct. 11.
Bernhard Ulmann Co., Inc., New York, N. Y. Certain instruction books for art-needlework. No. 147,422; Oct. 11.
Bieger, Richard J., St. Louis, Mo. Serial cartoons. No. 147,272; Oct. 11.
Bishop Company, The, North Attleboro, Mass. Spectacles, eyeglasses, ophthalmic mountings, and parts of same. No. 147,273; Oct. 11.
Boker, H., & Co. Inc., New York, N. Y. Nickel and nickel-alloy clad steel sheets. No. 147,274; Oct. 11.
Brummel & Mendelsohn, New York, N. Y. Hosiery, underwear, and knitted sweaters. Nos. 147,275–7; Oct. 11.
Burns Mfg. Co., New York, N. Y. Leather-dressings. No. 147,278; Oct. 11.
Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics in the piece. No. 147,279; Oct. 11.
Chicopee Mfg. Corporation, Chicopee Falls, Mass. Cotton piece goods. Nos. 147,280–1; Oct. 11.
Chowdhury, Kaelas D., Chicago, Ill. Face and talcum powders, toilet waters, perfumes, rouges, sachets. No. 147,436; Oct. 11.
Chrome Steel Works, Chrome, N. J. Iron and steel forgings and castings. No. 147,282; Oct. 11.
Cling-Surface Company, Buffalo, N. Y. Dressings for power-transmission belts. No. 147,283; Oct. 11.
Colgate & Company, Jersey City, N. J. Soaps. No. 147,284; Oct. 11.
Commercial Newspaper Company, New York, N. Y. Manual or publication issued at intervals. No. 147,285; Oct. 11.
Conard, G. W., & Company, Philadelphia, Pa. Preparation to prevent deposit of moisture on glass. No. 147,286; Oct. 11.
Conrad Wilkey & Co., Casper, Wyo. Tire-patches. No. 147,433. Oct. 11.
Continental Gin Co., Birmingham, Ala. Cotton-gins and accessories therefor and cotton-presses. No. 147,287; Oct. 11.
Continental Mfg. Co., Indianapolis, Ind. Floor-oils. No. 147,435; Oct. 11.
Corn Belt Farm Dailies, The, Chicago, Ill. Newspapers. No. 147,288; Oct. 11.
Cornwell, G. G., & Son, Inc., Washington, D. C. Spaghetti. No. 147,289; Oct. 11.
Craig, Dr. William E., Joplin, Mo. Medicinal preparation for treatment of syphilis and kindred diseases. No. 147,290; Oct. 11.
Cramer, G., Dry Plate Company, St. Louis, Mo. Photographic dry plates, including X-ray dry plates. No. 147,291; Oct. 11.
Cramer, G., Dry Plate Company, St. Louis, Mo. X-ray dry plates. No. 147,292; Oct. 11.
Crippen & Reid, Baltimore, Md. Middy-blouses. No. 147,293; Oct. 11.
Cross, Andrew J., New York, N. Y. Ophthalmic lenses. No. 147,294; Oct. 11.
Damsey, Bessie, Inc., New York, N. Y. Publication issued about semi-annually. No. 147,295; Oct. 11.
Danforth, Josiah H., & Company, Gloversville, N. Y. Gloves of leather and fabric. No. 147,296; Oct. 11.
Davis, Miriam R., San Francisco, Calif. Brassières. No. 147,297; Oct. 11.
Dazey Churn & Manufacturing Company, St. Louis, Mo. Churns. Nos. 147,298–9; Oct. 11.
Denville Silk Co. Inc., New York, N. Y. Silks and silk fabrics in the piece. No. 147,300; Oct. 11.
Dollfus Mieg & Cie. Societe Anonyme, Mulhouse, France. Instruction-books and printed matter issued from time to time. Nos. 147,302–3; Oct. 11.
Drake, Orange M., Salt Lake City, Utah. Polishing materials. No. 147,304; Oct. 11.
Dresso Polish Co., The, Norwich, Conn. Polish for pianos and automobiles. No. 147,305; Oct. 11.
E-Z Waist Company, The, New York, N. Y. Underwaists, union-suits, and sleeping-garments. No. 147,308; Oct. 11.
Elkonite Soap Co., Inc., The, Oakland, Calif. Soap. No. 147,306; Oct. 11.
Eskind, J., & Sons, Nashville, Tenn. Certain articles of clothing. No. 147,307; Oct. 11.
Fappiano, Jerry, Waterbury, Conn. Composition for dressing, polishing, and cleaning footwear, &c. No. 147,309; Oct. 11.
Firsching, Joseph A., Utica, N. Y. Underwear for men, women, and children. No. 147,310; Oct. 11.
Fitzpatrick Bros., Chicago, Ill. Cleaning and scouring preparation. No. 147,311; Oct. 11.
Fitzpatrick Bros., Chicago, Ill. Soap. No. 147,312; Oct. 11.
Foster, Norvil T., Columbus, Ohio. Antichattering fluid used in the treatment of speed-band linings and the like. No. 147,313; Oct. 11.
Freefloating Poppet Valve Company, The, Salt Lake City, Utah. Internal-combustion engines and parts thereof. No. 147,314; Oct. 11.
Glandex Co., Inc., The, New York, N. Y. Ointment for inflammatory swellings of muscles or joints. No. 147,437; Oct. 11.
Globe Automatic Sprinkler Company, Philadelphia, Pa. Automatic fire-sprinkler systems. No. 147,315; Oct. 11.
Grasselli Chemical Company, The, Cleveland, Ohio. Certain chemical substances. No. 147,316; Oct. 11.
Grasselli Chemical Company, The, Cleveland, Ohio. Dyes and dyestuffs. No. 147,317; Oct. 11.
Greenfield Tap and Die Corporation, Greenfield, Mass. Certain gages and micrometers. No. 147,318; Oct. 11.
Greenfield Tap and Die Corporation, Greenfield, Mass. Certain tools and parts of machinery. Nos. 147,319–22; Oct. 11.
Greenpoint Metallic Bed Company, Brooklyn, N. Y. Beds and cribs. No. 147,323; Oct. 11.
Hamilton-Brown Shoe Company, St. Louis, Mo. Men's and boys' leather shoes. No. 147,324; Oct. 11.
Harris, Richman & Goldstein, New York, N. Y. Men's suits and overcoats. No. 147,325; Oct. 11.
Hatcher, Chas. M., Mfg. Co., Philadelphia, Pa. Shoe-ink. No. 147,326; Oct. 11.
Hayhurst, John R., Evansville, Ind. Pile-salve. No. 147,327; Oct. 11.
Heiser Company, The, Cleveland, Ohio. Photographs, photographic prints, and commercial photographs. No. 147,328; Oct. 11.
Hendricks, William H., Reno, Nev. Weekly publication. No. 147,329; Oct. 11.
Herriott Polish Co., The, St. Louis, Mo. Preparation for cleaning, shining, and polishing shoes and all leather articles. No. 147,330; Oct. 11.
Holters Company, The, Cincinnati, Ohio. Shoes made of leather fabric and combined leather and fabric. No. 147,331; Oct. 11.
Hood Rubber Company, Watertown, Mass. Rubber boots and shoes. No. 147,332; Oct. 11.
Huyck, F. C., & Sons, Albany, N. Y. Scarfs, stockings, socks, sweaters of textile fabrics. No. 147,333; Oct. 11.
International Bedding Co. Inc., Baltimore, Md. Mattresses, pillows, and box-springs. Nos. 147,334–40; Oct. 11.
International Correspondence Schools, Scranton, Pa. Periodical issued monthly. No. 147,341; Oct. 11.
Kaye Millinery Company, Newark, N. J. Ladies' hats. No. 147,342; Oct. 11.
Kescot Manufacturing Company, Incorporated, Providence, R. I. Cut-steel buckles. No. 147,343; Oct. 11.
Kessling, E., Thermometer Co., Brooklyn, N. Y. Clinical thermometers. No. 147,344; Oct. 11.
Krank, Alfred J., St. Paul, Minn. Hair-shampoo. No. 147,438; Oct. 11.
Kuh Brothers, San Francisco, Calif. Boys' shirts, blouses, washsuits, play-garments, and rompers. No. 147,345; Oct. 11.
Kwix Company, Boston, Mass. Soap and preparation in the nature of soap. No. 147,346; Oct. 11.
Lawrence, David, Incorporated, Washington, D. C. *Nom de plume* used on newspaper articles. Nos. 147,347–8; Oct. 11.
Liedike, Robert E., Philadelphia, Pa. Children's dresses, rompers, and middies. No. 147,349; Oct. 11.
Linsk, Harry J., Philadelphia, Pa. Children's, misses', and ladies' dresses. No. 147,350; Oct. 11.

Liquid Velvet Company, Cincinnati, Ohio. Toilet lotions. No. 147,351; Oct. 11.
McCawley and Co., Inc., Baltimore, Md. Certain articles of clothing. No. 147,352; Oct. 11.
Maastrichtsche Zinkwit Maatschappij, Maastricht, Netherlands. White or colored dyestuffs. Nos. 147,353–4; Oct. 11.
Mann, Ferdinand, New York, N. Y. Hosiery. No. 147,355; Oct. 11.
Marshall Field & Company, Chicago, Ill. Cloth bags. No. 147,439; Oct. 11.
Marshall Field & Company, Chicago, Ill. Sheeting, sheets, and pillow-cases. No. 147,356; Oct. 11.
May Knitting Co., Inc., New York, N. Y. Sweaters, bathing-suits, dresses, and skirts. No. 147,357; Oct. 11.
Mayer & Neuburger Company, Chicago, Ill. Apron-dresses. No. 147,358; Oct. 11.
Mers, Carl L., Newark, N. J. Razor-blades, safety-razors, safety-razor handles. No. 147,359; Oct. 11.
Metropolitan-Vickers Electrical Co., Ltd., London, England. Certain meters and instruments of precision. No. 147,384; Oct. 11.
Miller, W. Y., Schuylkill Haven, Pa. Infants' and children's leather shoes. No. 147,360; Oct. 11.
Moline Chemical Company, Moline, Ill. Non-greasy granulated chemical cleanser. No. 147,371; Oct. 11.
Morris & Company, Incorporated, Baltimore, Md. Bloomers, blouses, waists, skirts, &c. No. 147,372; Oct. 11.
Munsingwear Corporation, The, Minneapolis, Minn. Hosiery and underwear. No. 147,373; Oct. 11.
National Commodities Co., Philadelphia, Pa. Sanitary human-hair nets. No. 147,374; Oct. 11.
Nesheim, W. M. (See Rudd, E. M., assignor.)
New Freedom Manufacturing Company, New Freedom, Pa. Middy-blouses. No. 147,375; Oct. 11.
New South Rubber Company, Atlanta, Ga. Certain outer casings, and inner tubes for tires. No. 147,376; Oct. 11.
New York Quebracho Extract Company, New York, N. Y. Tanning extract. Nos. 147,377–9; Oct. 11.
New York Quebracho Extract Company, New York, N. Y. Mordants for textiles. No. 147,380; Oct. 11.
New York Quebracho Extract Company, New York, N. Y. Tanning extracts. No. 147,381; Oct. 11.
Niagara Manufacturing Company, The, Lucas, Ohio. Wrenches. No. 147,382; Oct. 11.
Nu-Lac Company, The, Fort Wayne, Ind. Transparent luster and finish for automobiles and furniture. No. 147,440; Oct. 11.
Oberndorfer Co., The, Milwaukee, Wis. Boys' blouses. No. 147,383; Oct. 11.
Oestreicher, Barney, New York, N. Y. Knit caps and toques. No. 147,361; Oct. 11.
Old Colony Shoe Company, Brockton, Mass. Boots and shoes of leather and combinations of leather, fabric, and rubber. No. 147,362; Oct. 11.
Old Hickory Chair Company, The, Martinsville, Ind. Rustic chairs, stools, settees, lounges, &c. No. 147,363; Oct. 11.
Ott-Heiskell Hardware Co., Wheeling, W. Va. Trade journal or paper. No. 147,364; Oct. 11.
Palmer, I. E., Co., The, Middletown, Conn. Couch-hammocks. Nos. 147,365–6; Oct. 11.
Pennant Oil & Grease Co., Los Angeles, Calif. Lubricating-oils, greases, and gasolene. No. 147,367; Oct. 11.
Perking, A. E., Corporation, The, Dallas, Tex. Cleaner and polish for white leather shoes. No. 147,368; Oct. 11.
Perlmutter, Solomon, New York, N. Y. Collars. No. 147,369; Oct. 11.
Pinkney, Bryan D., Newport, Ky. Aluminum-alloy plate which automatically cleans gold, gold-plated, silver, silver-plated articles. No. 147,370; Oct. 11.
Porter Chemical Company, The, Hagerstown, Md. Maps, charts, and printed books used in connection therewith. No. 147,385; Oct. 11.
Precision Thermometer and Instrument Company, Philadelphia, Pa. Sphygmomanometers, thermometers, hydrometers, hygrometers, &c. No. 147,386; Oct. 11.
Prestoy Mfg. Co., The, Bridgeport, Conn. House-tables, house-chairs, and desks. No. 147,387; Oct. 11.
Process Engineers, Incorporated, New York, N. Y. Printed booklets and leaflets. No. 147,388; Oct. 11.
Purdy, James S., Los Angeles, Calif. Soap and soap pastes. No. 147,389; Oct. 11.
Raabe & Bowman, Philadelphia, Pa. Body-vermin destroyers. No. 147,390; Oct. 11.
Reuss, Wm. J., Madison, Wis. Polishing materials. Nos. 147,441–2; Oct. 11.
Robertson & Sons Shoe Repairers, Inc., New York, N. Y. Repair-patch of molded and sheet rubber for rubber footwear. No. 147,391; Oct. 11.
Rodgers, Joseph, Inc., New York, N. Y. Misses' and ladies' suits, coats, and dresses. No. 147,392; Oct. 11.
Rogers, W. H., Co., Chicago, Ill. Ladies' ready-to-wear petticoats, skirts, and bloomers. Nos. 147,393–4; Oct. 11.
Rolling Tooth Brush Company, Boston, Mass., and Montclair, N. J. Toilet soap. No. 147,395; Oct. 11.
Rosenfield, Louis, Chicago, Ill. Tonic for building up and purifying the system. No. 147,396; Oct. 11.
Rudd, E. M., Fargo, N. D., assignor to W. M. Nesheim, Moorhead, Minn. Photographs and illustrations. No. 147,397; Oct. 11.
Rycroft, W. W., & Co., New York, N. Y. All-wool dress goods in the piece. No. 147,398; Oct. 11.
Salmonson, Isidore, Los Angeles, Calif. Puttees of leather and canvas. No. 147,399; Oct. 11.
San Antonio Drug Co., San Antonio, Tex. Razors, scissors, and sprayers for insecticides, disinfectants, and germicides. No. 147,400; Oct. 11.
Sant Chemical Co., Kansas City, Mo. Powder preparation for cleaning artificial teeth. No. 147,401; Oct. 11.
Shane, C. B., Co., Chicago, Ill. Raincoats. No. 147,402; Oct. 11.
Sharman, Thaker D., Detroit, Mich. Laundry-tablets. No. 147,501; Oct. 11.
Sharp & Dohme, Baltimore, Md. Antiseptic lubricating-jelly. No. 147,403; Oct. 11.
Silvey and Golliday, Eldon, Mo. Rug-cleaner. No. 147,404; Oct. 11.
Simon, Franklin, & Co. Inc., New York, N. Y. Certain articles of clothing. No. 147,405; Oct. 11.
Simonson, Wilmot E., Medford, Mass. Powdered lemon-pie filling. No. 147,443; Oct. 11.
Sims, Roy A., St. Louis, Mo. Insecticides and disinfectants. No. 147,406; Oct. 11.
Sleep-Or-Swing Company, Topeka, Kans. Combination porch-swing and hammock-couch. No. 147,407; Oct. 11.
Smith, Alfred H., Company, New York, N. Y. Soaps. No. 147,408; Oct. 11.
Sonneborn Sons Inc., L., New York, N. Y. Paint. No. 147,444; Oct. 11.
Southwick, Uri B., Chelan, Wash. Salve possessing disinfecting and healing properties. No. 147,409; Oct. 11.
Spies, George A., Lowell, Ohio. Furniture—viz., library-tables. No. 147,410; Oct. 11.
Spiewak, I., & Sons, New York, N. Y. Suits, overcoats, and trousers for men and boys. No. 147,411; Oct. 11.
Stafford Flour Mills Co., Stafford, Kans. Wheat-flour. No. 147,445; Oct. 11.
Star Company, New York, N. Y. *Nom de plume* used on newspaper articles. No. 147,412; Oct. 11.
Stetson, George A., Boston, Mass. Heel and arch cushions for shoes. No. 147,413; Oct. 11.
Stevenson, T. W., Company, Minneapolis, Minn. Hats and caps for men and boys. No. 147,414; Oct. 11.
Stewart, Mrs. Florence, Glencoe, Ill. Silver-polish. No. 147,415; Oct. 11.
Strauss, Edwin M., Chicago, Ill. Candy. Nos. 147,416–18; Oct. 11.
Tolman Print Inc., Brockton, Mass. Named advertising novelties, such as post-cards, &c. No. 147,419; Oct. 11.
Tower, A. J., Company, Boston, Mass. Waterproof coats. No. 147,420; Oct. 11.
United Turkey Red Company Limited, The, Glasgow, Scotland. Certain articles of clothing. No. 147,423; Oct. 11.
Universal Tide Power Company, Boston, Mass. Motors actuated by the power of the tide. No. 147,424; Oct. 11.
Vail, Ed. S., Butterine Co., Chicago, Ill. Oleomargarin. No. 147,446; Oct. 11.
Vaporetor Corporation, The, Milwaukee, Wis. Carbureters and vaporizers for internal-combustion engines. No. 147,425; Oct. 11.
Victor Shoe Machinery Company, Lynn, Mass. Certain shoe machinery. No. 147,426; Oct. 11.
Waldes & Co., Prague, Bohemia. Certain notions, such as garment-fasteners, pins, &c. No. 147,427; Oct. 11.
Werner, Adolph, Milwaukee, Wis. Cloth used for polishing metal. No. 147,428; Oct. 11.
Werner, John O., New York, N. Y. Soft-metal-grinding compound. No. 147,429; Oct. 11.
Western Feed Manufacturers, Inc., Chicago, Ill. Dairy feed. No. 147,430; Oct. 11.
Western Textile Co., Chicago, Ill. Raincoats and men's overcoats and suits. No. 147,431; Oct. 11.
Wiggins, Austin A., Cleveland, Ohio. Soap. No. 147,432; Oct. 11.
Wilson, H. A., Company, The, Newark, N. J. Certain rivets. No. 147,434; Oct. 11.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abramovitz & Schwartz, New York, N. Y. Trunks. No. 147,494; Oct. 11.
Albermarle Paper Mfg. Co., Richmond, Va. Wrapping, blotting, bond, writing, and tissue paper. No. 148,194; Oct. 11.
American Celutex Corporation, New York, N. Y. Pyroxylin sheet material, rods, and tubing. No. 150,385; Oct. 11.
American Kardex Company, Tonawanda, N. Y. Transparent covers, &c., for use in record, index, and filing devices and the transparent sheets from which same are made. No. 133,242; Oct. 11.
American Sugar Products Corporation, Los Angeles, Calif. Table-syrup. No. 147,177; Oct. 11.
American Universal Coffee Company, Dallas, Tex. Coffee. Nos. 149,259–6; Oct. 11.
Ames Harris Neville Co., San Francisco, Calif. Tents. No. 149,793; Oct. 11.
Anthes Force Oiler Company, Fort Madison, Iowa. Oil-cans. No. 150,586; Oct. 11.
Bakrow, Richard D., & Son, Louisville, Ky. Toy balloons. No. 143,154; Oct. 11.
Balch, Lewis L., Pittsburgh, Pa. Combination of malt extract, hops, and maltose sugar used in making a beverage. No. 152,229; Oct. 11.
Banner Silk Knitting Mills, Inc., The, New York, N. Y. Fiber-silk jersey. No. 151,446; Oct. 11.
Barthelmie, George, West Hammond, Ill. Bread. No. 147,705; Oct. 11.
Beardsley, Calvin L., Rock Island, Ill. Maltless, non-alcoholic beverage and extracts and syrups for making same. No. 146,527; Oct. 11.
Behrens Dairy Products Company, Inc., New Orleans, La. Milk, cheese, and eggs. No. 140,633; Oct. 11.
Betts, Farron S., Brooklyn, N. Y. Various kinds of albums. No. 147,657; Oct. 11.
Beyerle, J. J., Mfg. Co., New York, N. Y. Rubber baby-pants and waterproof house-aprons. No. 143,585; Oct. 11.
Bloch Chemical Company, Inc., The, New York, N. Y. Preparation used in treatment of the scalp. No. 144,706; Oct. 11.
Bonovin, Limited, Liverpool, England. Malt food. No. 149,167; Oct. 11.
Boston Mfg. Company, 1901, The, Waltham, Mass. Cotton piece goods. No. 152,117; Oct. 11.
Brady, James E., Cottage Grove, Tenn. Medicinal preparation for stomach and bowel disorders. No. 142,772; Oct. 11.
Brown Company, Portland, Me. Writing and printing paper. No. 146,294; Oct. 11.
Brown Shoe Company, Inc., St. Louis, Mo. Children's shoes. No. 147,395; Oct. 11.
Browning, Anna G., Philadelphia, Pa. Antiferment-tablets, catarrh and hay-fever treatment, liniment, &c. No. 149,123; Oct. 11.
Burnett, Homer D., Shinnston, W. Va. Corn-salve. No. 149,373; Oct. 11.
Butterfield Trunk Co., Seattle, Wash. Trunks. No. 144,604; Oct. 11.
Cadet Knitting Company, Philadelphia, Pa. Hosiery. No. 147,281; Oct. 11.
Cadet Knitting Company, Philadelphia, Pa. Hosiery. No. 147,339; Oct. 11.
Caldwell Electric Corporation, Champaign, Ill. Electric-lighting fixtures, electric table and floor lamps, electroliers. No. 118,257; Oct. 11.
California Cotton Mills Company, Oakland, Calif. Ropes, cord, twine. No. 150,658; Oct. 11.
California Cotton Mills Company, Oakland, Calif. Twines of all kinds. No. 151,257; Oct. 11.
California Growers Association, Inc., Los Angeles, Calif. Canned and dried fruits, olive-oil, honey, &c. No. 148,718; Oct. 11.
California Prune and Apricot Growers, Inc., San Jose, Calif. Dried and canned fruits, fruit butter and jam. No. 146,874; Oct. 11.
Cartersville Mills, Inc., The, Cartersville, Ga. Boys' union-suits. No. 146,816; Oct. 11.
Central Bond and Mortgage Co., Chicago, Ill. Publication issued monthly. No. 150,511; Aug. 11.
Cherokee Spinning Co., Knoxville, Tenn. Yarns and threads. No. 120,788; Oct. 11.
Clark, C. H. Oil Company, The, Cleveland, Ohio. Lubricating oils and greases. No. 152,849; Oct. 11.
Cloud Accessories Corporation, The, Chicago, Ill. Spark-plugs for internal-combustion engines. No. 135,008; Oct. 11.
Cohen, N. B., Scranton, Pa. Hair-nets. No. 152,236; Oct. 11.
Colorado Milling & Elevator Company, The, Denver and Eaton, Calif. Wheat-flour. No. 148,974; Oct. 11.
Colwell, H. R., Washington, D. C. Toy animals and balloons and barking or sounding toys. No. 146,794; Oct. 11.
Converse, Morton E., and Son Co., Winchendon, Mass. Knockdown children's horses. No. 151,753; Oct. 11.
Cott-A-Lap Company, Somerville, N. J. Floor-coverings. No. 151,909; Oct. 11.
Croce, F. D., & Co., New York, N. Y. Paper bags. No. 130,720; Oct. 11.
Crown Corset Company, The, New York, N. Y. Corsets. No. 147,197; Oct. 11.
Dahl, H. G., Oakland, Calif. Soap. No. 147,016; Oct. 11.
Daisy Whitehead Knitting Co., New York, N. Y. Hosiery. No. 152,466; Oct. 11.
Dayton Rubber Manufacturing Co., The, Dayton, Ohio. Rubber tires and tubes. No. 149,174; Oct. 11.
Diehl, Edw., Nashville, Tenn. Non-alcoholic beverages and syrups for making same. No. 145,771; Oct. 11.
"Dynamo" Tulle Importing Co., The, New York, N. Y. Tulles, muslins, crepes, silks, veilings, and nettings in the piece, and veils. No. 147,555; Oct. 11.
Eagle Candle Co., Brooklyn, N. Y. Candles. No. 149,217; Oct. 11.
East and West Trading Corporation, New York, N. Y. Henna shampoo. No. 149,691; Oct. 11.
Edmunds, Henry, Westminster, London, England. Paper. No. 147,017; Oct. 11.
Edwards Manufacturing Co., The, Cincinnati, Ohio. Toy pistols, rifles, and repeating rifles. No. 152,004; Oct. 11.
Ekstrom & Linne Baking Co., Chicago, Ill. Biscuits and crackers. No. 144,711; Oct. 11.
Electric Smelting & Aluminum Co. Inc., The, Lockport, N. Y. Soluble chemical compounds for use as detergents. No. 148,984; Oct. 11.
Elektrizitätswerk Lonza, Gampel, Switzerland. Agglomerates of solid aldehyde, methyl alcohol, and ethyl alcohol for heating and lighting purposes. No. 144,805; Oct. 11.
Elk Brand Shirt & Overall Co., Hopginsville, Ky. Children's one-piece suits. No. 146,551; Oct. 11.
Erlanger, N. Blumgart & Co. Inc., New York, N. Y. Piece goods made of cotton, artificial silk, silk, and combinations thereof. No. 151,939; Oct. 11.
Fasseas & Onofrio, Detroit, Mich. Coffee. No. 147,018; Oct. 11.
Federal Rubber Company, The, Cudahy, Wis. Hoof-pads. No. 138,712; Oct. 11.
Field & Stream Publishing Company, New York, N. Y. Annual periodical. No. 151,080; Oct. 11.
Fleischmann Company, The, Cincinnati, Ohio, and New York, N. Y. Compressed yeast and yeast mixtures. No. 147,822; Oct. 11.
Forman Bassett Company, The, Cleveland, Ohio. Safety-paper. No. 147,009; Oct. 11.
Fosgate, Chester C., Co., Orlando, Fla. Fresh citrus fruits. No. 147,776; Oct. 11.
Foyer, Chas. A., & Company, Cleveland, Ohio. Typewriter-ribbons and carbon-paper. No. 140,489; Oct. 11.
Franklin Silver Plate Company, Greenfield, Mass. Knives, forks, spoons, napkin-rings, baby-pins, &c. No. 146,702; Oct. 11.
Gerhard Lang Brewery, New York, N. Y. Malt syrup, extracts, and beverages. No. 152,305; Oct. 11.
Goheen Corporation, The, Wilmington, Del., and Newark, N. J. Paints and colors. No. 148,995; Oct. 11.
Goldenberg, David, Philadelphia, Pa. Candy. No. 147,238; Oct. 11.
Gomillion, Alice G., Lonoke, Ark. Ointment for treating the scalp. No. 149,586; Oct. 11.
Goodrich, B. F., Company, The, New York, N. Y. Mats made wholly or partly of rubber or having rubber incorporated therein. No. 137,470; Oct. 11.
Grant, W. T., Co., New York, N. Y. Children's underwaists. No. 146,906; Oct. 11.
Grey, Herbert J., New York, N. Y. Outing outfits. No. 149,395; Oct. 11.
Gutter, B., & Sons, New York, N. Y. Watches, watch-cases, and watch-movements. No. 139,524; Oct. 11.
Gutter, B., & Sons, New York, N. Y. Watches, watch-cases, and watch-movements. No. 139,526; Oct. 11.
Gutter, B., & Sons, New York, N. Y. Watches, watch-cases, and watch-movements. No. 139,528; Oct. 11.
Haas Brothers Fabrics Corporation, New York, N. Y. Silk piece goods. No. 152,254; Oct. 11.
Hadfields Limited, Sheffield, England. Ships' propellers, carts, carriages, omnibuses, &c. No. 136,259; Oct. 11.
Haggerty, F. E., and Son, San Francisco, Calif. Syrup for use in making home beverages. No. 138,449; Oct. 11.
Hall, Martin L., Company, Boston, Mass. Coffee. No. 144,911; Oct. 11.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Hamilton Card & Paper House, Inc., New York, N. Y. Bond paper for writing and printing purposes. No. 149,276; Oct. 11.

Hartofelis, Nicles, Manchester, N. H. Face-cream. No. 147,024; Oct. 11.

Hers, Alexander, New York, N. Y. Merchandise-envelop. No. 149,804; Oct. 11.

Hillerich & Bradsby Co., Inc., Louisville, Ky. Baseball-bats. No. 150,107; Oct. 11.

Hilton Collins Company, Louisville, Ky. Baseball-bats. Nos. 141,572–3; Oct. 11.

Hirsch, Hiram H., Philadelphia, Pa. Ready-mixed paints. No. 142,999; Oct. 11.

Hollingshead, R. M., Co., The, Camden, N. J. Metal-polish, oil-soap, roadside hand-cleaner, &c. No. 149,124; Oct. 11.

Hollingshead, R. M., Co., The, Camden, N. J. Gear, cup, and graphite greases, magneto-oil, &c. No. 149,137. Oct. 11.

Hoodwin, J. W., Company, Chicago, Ill. Tray for ice-cream cones. No. 150,104; Oct. 11.

Hooks, William A., Atlanta, Ga. Preparation for treatment of nervousness, sleeplessness, and general debility. No. 149,751; Oct. 11.

Hooper, Wm. E., & Sons Co., Baltimore, Md. Canvas mail-sacks, coal-bags, letter-carrier pouches, &c. No. 147,721; Oct. 11.

Hooper, Wm. E., & Sons Co., Baltimore, Md. Cotton rope, sash-cord, wrapping-twine, &c. No. 147,722; Oct. 11.

Housh, Frank E., Boston, Mass. Liquid adhesive preparation. No. 152,204; Oct. 11.

Howes' Laboratories, Milford, Conn. Pharmaceutical preparation. No. 147,619; Oct. 11.

Howland, John W., Middleton, Idaho. Ready-mixed paints. No. 150,011; Oct. 11.

Hudson Leather Company, Albany, N. Y. Leather. No. 150,068; Oct. 11.

Ideal Coated Paper Company, Brookfield, Mass. Gummed paper. No. 134,780; Oct. 11.

Ideal Coated Paper Company, Brookfield, Mass. Gummed paper. No. 143,608; Oct. 11.

Irvin-Smith Company, Inc., Chicago, Ill. Box parlor games. No. 150,863; Oct. 11.

Iwai & Co. of New York, Ltd., New York, N. Y. Sheets, tubes, and rods composed of a mixture of nitrocellulose and camphor. No. 147,622; Oct. 11.

Katchall Mouse Trap Manufacturing Co., Greenville, Miss. Mousetraps. No. 144,816; Oct. 11.

Kaufman, Matthew, New York, N. Y. Hair-nets. No. 152,173; Oct. 11.

Kellogg, H., & Sons, Philadelphia, Pa. Canned goods, coffee, jam, &c. No. 149,758; Oct. 11.

Kinleyside, Lillian Y., Atlantic City, N. J. Game-board used with playing-cards. No. 145,219; Oct. 11.

Krueger, Edward J., Milwaukee, Wis. Ventilating chimney-cowls. No. 149,194; Oct. 11.

Kuhnlenz, August, Sharon and Farrell, Pa. Non-alcoholic, non-cereal, maltless beverages. No. 145,690; Oct. 11.

Lamm Brothers, Baltimore, Md. Men's and boys' coats, pants, and vests, ladies' suits, &c. Nos. 147,246–9; Oct. 11.

Levy, Paul H., Baltimore, Md. Game-boards. No. 150,454; Oct. 11.

Liberty Tree Candy Company, Boston, Mass. Candies and chocolates. No. 143,606; Oct. 11.

Loog & Sons, Sidney, Philadelphia, Pa. Adhesive cements. No. 150,868; Oct. 11.

Lubrea Oil Corporation. (See Malmstrom, Nils I., assignor.)

Macwhyte Company, Kenosha, Wis. Wire rope. No. 141,005; Oct. 11.

Magazine Corporation, The, Indianapolis, Ind., and New York, N. Y. Monthly magazine publication. No. 150,459; Oct. 11.

Malmstrom, Nils I., assignor to Lubrea Oil Corporation, New York, N. Y. Lubricating oils and greases. No. 144,846; Oct. 11.

Malt-Diastase Company, New York, N. Y. Concentrated liquid malt extracts. No. 151,433; Oct. 11.

Malt-Diastase Company, New York, N. Y. Concentrated liquid malt extracts. No. 152,434; Oct. 11.

Manufacturing Company of America, Philadelphia, Pa. Candy. No. 147,938; Oct. 11.

Mark, Louis, Philadelphia, Pa. Shoes. No. 146,835; Oct. 11.

Marré y Cia., Buenos Aires, Argentina. Cheese and butter. No. 143,037; Oct. 11.

Marshall Field & Company, Chicago, Ill. Bedspreads. No. 140,313; Oct. 11.

Martin's, John House, Inc., New York, N. Y. Doll-forms, stuffed toy figures, &c. No. 149,645; Oct. 11.

Massasoit Manufacturing Company, Fall River, Mass. Clotheslines. No. 151,325; Oct. 11.

McGowan, John S., Orange, N. J. Mayonnaise and Russian dressings, olive mayonnaise. No. 148,232; Oct. 11.

Merritt, S. W., & Co., New York, N. Y. Unitary electric-lighting plants. No. 129,396; Oct. 11.

Meyer & Stüdeli, Société Anonyme, Soleure, Switzerland. Watches, clocks, and parts thereof. No. 142,024; Oct. 11.

Miller, Charles E., Los Angeles, Calif. Monthly magazine. No. 144,780; Oct. 11.

Monarch Leather Company, Chicago, Ill. Leather. No. 151,805; Oct. 11.

Mowery, John H., Cincinnati, Ohio. Balm to be used for the gums in the treatment of pyorrhea. No. 149,701; Oct. 11.

Mutual Pharmacal Company, Boston, Mass. Syrup expectorant, phenaspirin compound, and abacetyl. No. 146,383; Oct. 11.

Nevin-Frank Company, Butte, Mont. Non-alcoholic beverages. No. 142,850; Oct. 11.

New England Biscuit Company, Worcester, Mass. Crackers. No. 138,824; Oct. 11.

New, Ilham H., Detroit, Mich. Green, fresh, and canned vegetables. No. 146,027; Oct. 11.

Nichols, Lena O., Fort Leavenworth, Kans. Shampoo. No. 149,717; Oct. 11.

North End Auto Supply Company, Inc., Troy, N. Y. Gasolene, lubricating, illuminating, and fuel oils. No. 143,698; Oct. 11.

Oregon Growers Cooperative Assn., Salem, Oreg. Dried, canned, and fresh fruits, berries, and vegetables, jams, catsup, &c. No. 146,883; Oct. 11.

Oswego River Paper Mills, Phoenix, N. Y. Toilet-paper. No. 106,945. Oct. 11.

Pabst Brewing Company, Milwaukee, Wis. Syrup for the production of a cereal malt beverage. No. 119,966; Oct. 11.

Panama Lubricants Company, Los Angeles, Calif. Mineral greases. No. 151,373; Oct. 11.

Patent Cereals Company, The, Geneva, N. Y. Breakfast cereals, hominy-grits, pancake-flour, &c. No. 145,475; Oct. 11.

Peerless Paper Company, Dayton, Ohio. Bond-paper. No. 127,709; Oct. 11.

Peerless Paper Company, Dayton, Ohio. Writing and printing paper. No. 137,708; Oct. 11.

Penn Petroleum and Supply Company, Wilmington, Del., and Philadelphia, Pa. Lubricating-oils. No. 151,475; Oct. 11.

Pep-Step Corp., Cedar Rapids, Iowa. Foot-pads. No. 146,288; Oct. 11.

Picha, Louis J., St. Paul, Minn. Wheeled toys known as scooters. No. 140,960; Oct. 11.

Pinkus Brothers, New York, N. Y. Cigarettes. No. 145,709; Oct. 11.

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Paints, enamels, varnishes, and paint protective coatings. No. 149,023; Oct. 11.

Power Truck and Tractor Company, Detroit, Mich. Motor-trucks. No. 143,894; Oct. 11.

Recktenwalt, Millard H., Buffalo, N. Y. Fire-maker. No. 148,549; Oct. 11.

Redmond & Brumley Oil Co., Inc., New York, N. Y. Fuel for internal-combustion engines. No. 149,777; Oct. 11.

Redne Company, The, Denver, Colo. Gasolene and fuel energizer. Nos. 149,775–6; Oct. 11.

Reliable Manufacturing Company, The, Cleveland, Ohio. Storage-battery clips. No. 122,496; Oct. 11.

Remar Company, The, Oakland, Calif. Cakes, candies, fruit preserves. No. 137,334; Oct. 11.

Republic Box Co., Chicago, Ill. Bottle and packing boxes. No. 146,595; Oct. 11.

Rieder, Frank, & Sons, Philadelphia, Pa. Chairs. No. 143,659; Oct. 11.

Robinson, Samuel H., Kansas City, Mo. Optical cases or conveyers. No. 135,453; Oct. 11.

Rogers Construction Company, Gloucester City, N. J. Toy furniture, vehicles, boats, &c. No. 143,705; Oct. 11.

Rogers, Loyal D., Chicago, Ill. Series of bulletins. No. 150,021; Oct. 11.

Roll-O-Racer Company, Inc., New York, N. Y. Game-boards and pieces therefor. No. 145,796; Oct. 11.

Ryley, C. L., Coal Company, Lexington, Ky. Coal. No. 145,593; Oct. 11.

Safety Equipment Service Company, The, Cleveland, Ohio. Cloth and canvas leggings and boots. No. 134,793; Oct. 11.

Samstag & Hilder Bros., New York, N. Y. Wire hairpins. No. 149,528; Oct. 11.

Scintilla, Solothurn, Switzerland. Electric clocks and clocks and watches of all kinds and parts thereof. No. 136,041; Oct. 11.

Scott Paper Company, Chester, Pa. Toilet-paper. No. 116,892; Oct. 11.

Segar, Howard J., Portland, Oreg. Controlling device for automobile-spotlights. No. 145,534; Oct. 11.

Service Oil Refining Company, Kokomo, Ind. Lubricating oils and greases. No. 137,858; Oct. 11.

Shapleigh Hardware Company, St. Louis, Mo. Ice-skates. No. 143,460; Oct. 11.

Shelby Supply & Manufacturing Company, Shelby, Ohio. Candy mints. No. 149,298; Oct. 11.

Sherman Envelope Company, Worcester, Mass. Paper drinking-cups. No. 145,594; Oct. 11.

Sherman, Samuel, New York, N. Y. Traveling-bags, suit-cases, brief-cases, trunks, pocketbooks. No. 144,882; Oct. 11.

Sidney Blumenthal & Co. Inc., New York, N. Y. Pile fabrics in the piece. No. 151,750; Oct. 11.

Sloma, Stanislaw, Depew, N. Y. Palliative for throat diseases and malignant growths in throat. No. 149,823; Oct. 11.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Snow Flake Axle Grease Company, The, Boston, Mass. Axle-greases and other lubricating oils and greases. No. 143,715; Oct. 11.

Soap Manufacturers Sales Company, San Francisco, Calif. Soaps. No. 133,192; Oct. 11.

Starkloff, William B., Baltimore, Md. Awnings, tents, flags, tarpaulins. No. 150,490; Oct. 11.

Stearns, Frederick & Company, Detroit, Mich. Medicine. No. 149,361; Oct. 11.

Stein, S., & Co., New York, N. Y. Woolen piece goods. No. 152,186; Oct. 11.

Stember, Bernard, New York, N. Y. Pocketbooks. No. 143,840; Oct. 11.

Stephens, Spense M., Lakeland, Fla. Fresh citrus fruits. No. 148,404; Oct. 11.

Suckling Limited, Birmingham, England. Ash-trays, bread and cake baskets, candelabras, &c. No. 146,783; Oct. 11.

Swingrite Co. Inc., The, Providence, R. I. Golf-stroke-guiding device. No. 151,067; Oct. 11.

Tetlow, Ida V., Philadelphia, Pa. Powder-puffs. Nos. 148,966–7; Oct. 11.

Tetralin Gesellschaft mit beschränkter Haftung, Berlin, Germany. Explosive substances, projectiles, ammunition. No. 142,045; Oct. 11.

Textile Publishing Company, New York, N. Y. Printed display and art panels, price-tickets, show-cards, &c. No. 146,469; Oct. 11.

Tri-State Milling Co., Belle Fourche, S. D. Wheat-flour. No. 129,759; Oct. 11.

Tribble Cordage Mills, Inc., Boston, Mass. Clotheslines. Nos. 150,378–0; Oct. 11.

Trostel, Albert O., Milwaukee, Wis. Wool and hair. No. 144,754; Oct. 11.

Trum, E. J., Inc., New York and Brooklyn, N. Y. Boxes and cartons. No. 146,040; Oct. 11.

Truscon Steel Company, Detroit, Mich. Paint coating for exterior surfaces. No. 139,761; Oct. 11.

Unique Art Manufacturing Co., Newark, N. J. Mechanical toy. No. 149,493; Oct. 11.

United Phonograph Stores Inc., New York, N. Y. Printed copies of musical compositions. No. 150,786; Oct. 11.

United States Playing Card Company, Cincinnati, Ohio. Playing-cards. Nos. 150,160–2; Oct. 11.

United States Playing Card Company, The, Cincinnati, Ohio. Playing-cards. No. 150,166; Oct. 11.

United States Playing Card Company, The, Cincinnati, Ohio. Playing-cards. Nos. 150,168–9; Oct. 11.

Vimco Mfg. Company, Inc., Buffalo, N. Y. Portable electric lamps. No. 140,607; Oct. 11.

W-K-M Company. (See Williams-Koen-McManis Co., assignor.)

Wadsworth, Howland & Co., Inc., Boston, Mass. Paint enamels, varnishes, paints. No. 137,795; Oct. 11.

Walker, Madam C. J., Manufacturing Co., The, Indianapolis, Ind. Toilet preparations. No. 140,764; Oct. 11.

Wallace Milling Company, The, Dale, Ind. Wheat-flour. No. 147,069; Oct. 11.

Wanamaker, John, New York, New York, N. Y. Perfumes, sachets, toilet waters, powders. No. 149,663; Oct. 11.

Wanamaker, John, New York, New York, N. Y. Perfumes, sachets, toilet waters, powders. No. 149,665; Oct. 11.

Wechsler Barber Silk Co. Inc., New York, N. Y. Silk and silk-mixture fabrics in the piece. No. 151,136; Oct. 11.

Werle et Compagnie, Rheims, France. Champagne-wines. No. 148,003; Oct. 11.

Werle et Compagnie, Rheims, France. Champagne-wines. No. 148,005; Oct. 11.

Westfall-Land Company, Turlock, Calif. Fresh deciduous fruits and fresh vegetables. No. 135,679; Oct. 11.

Wheeler, W. B., Corporation, New York, N. Y. Matrix or dry mat used in stereotyping and electroplating. No. 149,495; Oct. 11.

Williams-Koen-McManis Co., assignor to W-K-M Company, Houston, Tex. Well-drilling and milling tools. No. 139,412; Oct. 11.

Wilson, Henry C., New York, N. Y. Rust-retarding or cleansing compositions and grease for ferrous materials. No. 131,936; Oct. 11.

Wimelbacher & Rice, New York, N. Y. Leather and fabric gloves. No. 147,175; Oct. 11.

Wisard Automobile Company, Charlotte, N. C. Automobiles. No. 132,467; Oct. 11.

Wudart Company, The, Oshkosh, Wis. Art toys. No. 140,554; Oct. 11.

Wynne, Oliver, Norfolk, Va. Lard substitute. No. 144,212; Oct. 11.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 11TH DAY OF OCTOBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Accounting system, Means employed in. F. Geits, Jr. No. 1,392,930; Oct. 11.
Adjustable chair. O. H. Schram. No. 1,393,457; Oct. 11.
Adjustable stand. T. H. Rhedmon. No. 1,393,165; Oct. 11.
Adjustable window-screen. S. G. Foster. No. 1,393,616; Oct. 11.
Aerial ropeways, Differential clip for. Y. Tamamura. No. 1,392,678; Oct. 11.
Aeroplane. C. C. Medberg. No. 1,393,150; Oct. 11.
Air-brake-piston-leather-expanding ring. S. G. Clayback. 1,393,664; Oct. 11.
Air device, Auxiliary. W. C. Dillon. No. 1,392,922; Oct. 11.
Air-lines, Water-trap for. C. E. Atkinson. No. 1,393,066; Oct. 11.
Aircraft such as aeroplanes, Means for indicating direction applicable for use with. T. W. Saxton. No. 1,393,318; Oct. 11.
Alarm: *See*—
Pneumatic alarm.
Alloy. F. Milliken. No. 1,393,388; Oct. 11.
Aluminum nitrid and other chemical substances, Apparatus for making. W. Hoopes. No. 1,393,371; Oct. 11.
Aluminum nitrid and other chemical substances, Making. W. Hoopes. No. 1,393,370; Oct. 11.
Aluminum nitrid and other chemical substances, Making. W. Hoopes. No. 1,393,372; Oct. 11.
Amusement device. H. D. Bryant. No. 1,393,494; Oct. 11.
Amusement device. H. Halfpenny. No. 1,393,117; Oct. 11.
Animal-trap. J. R. and G. W. Elder. No. 1,393,516; Oct. 11.
Annunciator. H. A. Frans. No. 1,393,275; Oct. 11.
Annunciator-drop. C. J. Henschel. No. 1,393,685; Oct. 11.
Arc device and starting same, Inclosed-. E. Friederich. No. 1,393,520; Oct. 11.
Arm, Small-. P. T. Godsal. No. 1,393,112; Oct. 11.
Armature-coils, Press for. S. W. Morris. No. 1,393,035; Oct. 11.
Article, Coated. J. C. Embardt. No. 1,393,355; Oct. 11.
Article of merchandise. W. E. Boyce. No. 1,393,608; Oct. 11.
Auto-treadmill. C. E. Anderson. No. 1,393,600; Oct. 11.
Auto-wheel protector. J. F. Halbach. No. 1,393,528; Oct. 11.
Automobile-body with traveling and housekeeping conveniences. R. L. Martin. No. 1,392,955; Oct. 11.
Automobile-brake. A. A. Unruh. No. 1,392,987; Oct. 11.
Automobile-lock. F. B. Leonard. No. 1,393,552; Oct. 11.
Automobile-lock. E. T. Tanner. No. 1,393,182; Oct. 11.
Automobile-locking device. J. W. Hughes. No. 1,393,022; Oct. 11.
Automobile running-boards, Demountable baggage-rack for. C. M. Buebke. No. 1,393,200; Oct. 11.
Automobile-windlass. M. A. Davis. No. 1,393,349; Oct. 11.
Automobile-window-operating device. E. Balough. No. 1,393,484; Oct. 11.
Automobiles, Balanced-gear drive for. O. F. Erickson and H. P. Olson. No. 1,393,208; Oct. 11.
Automobiles, Combination-lock for. M. T. Dowdy. No. 1,393,676; Oct. 11.
Automobiles, Disk wheel for. J. T. Pickering. No. 1,393,729; Oct. 11.
Automobiles, Easy-starting device for. E. T. Crown. No. 1,393,268; Oct. 11.
Automobiles, Heating device for. A. Denman-Jones. No. 1,393,093; Oct. 11.
Automobiles, Radiator-drawing attachment for. G. J. Krenzer. No. 1,393,549; Oct. 11.
Auxiliary arch-bar. P. Swanson. No. 1,393,716; Oct. 11.
Axle support, Vehicle-. C. M. Billings. No. 1,393,004; Oct. 11.
Bait, Artificial. J. Frame. No. 1,393,617; Oct. 11.
Baker's peel. A. L. Hapner. No. 1,393,683; Oct. 11.
Balance staffs and wheels, Calipers for pivot testing, truing, and poising of. C. Culman. No. 1,393,203; Oct. 11.
Bale-tie machine. J. Sommer. No. 1,393,178; Oct. 11.
Ball-bearing string-proof wheel. J. L. Chesnutt. No. 1,392,912; Oct. 11.
Balls or pellets, Method and apparatus for making small. C. E. Linebarger. No. 1,393,383; Oct. 11.
Bar: *See*—
Auxiliary arch-bar.
Bathtub. M. Abraham and L. J. Dennis. No. 1,393,482; Oct. 11.
Bathtub. E. Adair. No. 1,392,901; Oct. 11.
Bathtub. E. L. D. Palmer. No. 1,393,310; Oct. 11.
Battery-connector. W. S. Doe. No. 1,393,674; Oct. 11.
Battery switch-lock. V. Carouso. No. 1,393,259; Oct. 11.
Bead and weather-strip, Combined parting-. W. W. Cole. No. 1,393,264; Oct. 11.
Bearing for Ford motor-shafts, Thrust-. J. C. Mullins, Jr. No. 1,393,305; Oct. 11.
Bearings, Cage for anti-friction-. C. A. Dane and A. A. Kraemer. No. 1,392,920; Oct. 11.
Bed-spring. J. B. and J. Magariello. No. 1,392,954; Oct. 11.
Bedclothes-clamp. L. J. Keene. No. 1,393,137; Oct. 11.
Bicycle-pedal. C. D. Wright. No. 1,393,256; Oct. 11.
Bicycles, Flashlight-bracket for. E. F. Pawsat. No. 1,393,158; Oct. 11.
Billet-casting. R. E. Bradley. No. 1,393,195; Oct. 11.
Billiard-cue holder. A. E. Cooper. No. 1,393,265; Oct. 11.
Block-forming machine. A. Wickstrom. No. 1,393,189; Oct. 11.
Block-molding machine. H. S. Downard. No. 1,393,270; Oct. 11.
Board: *See*—
Muster-check board.
Boats and like light vessels, Construction of bodies of flying-. H. Scott-Paine. No. 1,393,645; Oct. 11.
Bodies, Device or arrangement for the continuous movement of rolling or sliding. E. Magerle and H. Martinek. No. 1,393,231; Oct. 11.
Bog-cutter, grubber, and weeder. C. A. Ambrose. No. 1,392,900; Oct. 11.
Boiler. F. B. Howell. No. 1,393,622; Oct. 11.
Booth, Knockdown voting-. W. H. Joy and H. G. Porter. No. 1,393,224; Oct. 11.
Bottle-capping apparatus. S. W. Taylor. No. 1,392,980; Oct. 11.
Bottles and other containers, Apparatus for the progressive heating or cooling of milk-. G. M. S. Talt. No. 1,393,717; Oct. 11.
Bowling-pin. R. J. Wilkie. No. 1,393,655; Oct. 11.
Box: *See*—
Phonograph sound-box.
Boxes, Machine for sealing. B. Heinrichs. No. 1,393,122; Oct. 11.
Brake: *See*—
Automobile-brake. Differential brake.
Centrifugal brake. Truck-brake.
Brake mechanism. C. W. Parker. No. 1,393,390. Oct. 11.
Broom. W. Gray. No. 1,393,215; Oct. 11.
Brush, Electric. W. E. Schwarzmann. No. 1,393,704; Oct. 11.
Brush, Electrical. H. R. Mondy. No. 1,393,635; Oct. 11.
Brush, Fountain-feed rotary. W. A. Carver. No. 1,393,663; Oct. 11.
Brush-holder, Electric-generator. C. E. Willey. No. 1,392,996; Oct. 11.
Brush, Rotary. H. Wimmer. No. 1,393,332; Oct. 11.
Brush, Vacuum-cleaner. G. R. Paulus. No. 1,393,695; Oct. 11.
Buckle. C. P. Kuehn. No. 1,393,143; Oct. 11.
Buckle, Belt-. S. Buchsbaum. No. 1,393,425; Oct. 11.
Buckle, Belt-. L. Jaroli. No. 1,393,222; Oct. 11.
Buckle, Belt-. L. F. Otten. No. 1,393,721; Oct. 11.
Bulkheads and plastic filling compound therefor, Multiple-cable gland for. J. H. Collie. No. 1,393,089; Oct. 11.
Bumper and tire-carrier. D. B. Goss. No. 1,393,113; Oct. 11.
Burglar-trap. J. A. Tate. No. 1,393,183; Oct. 11.
Burner: *See*—
Fuel-oil burner.
Burner. O. F. Carlson. No. 1,392,909; Oct. 11.
Burner and gas-generator, Combined. A. E. Grant. No. 1,393,358; Oct. 11.
Burner-regulation System. J. Good. No. 1,393,280; Oct. 11.
Cabinet, Advertising-. C. E. Closson. No. 1,393,665; Oct. 11.
Cabinet, Automatic type-. W. S. Russell. No. 1,393,317; Oct. 11.
Cabinet, Phonograph-. J. H. Weber. No. 1,393,470; Oct. 11.
Cable-holding device. J. H. Rosemeyer. No. 1,393,245; Oct. 11.

Cableways, Slack-puller for. K. Berger. No. 1,393,604; Oct. 11.
Caliper, Micrometer-. G. Cousins. No. 1,393,266; Oct. 11.
Call distributing system. S. B. Williams, Jr. No. 1,393,727; Oct. 11.
Camera, Multiple-view. P. B. Venuti and C. H. Arnold. No. 1,393,411; Oct. 11.
Can-bodies and positioning ends thereupon, Apparatus for truing. A. Johnson. No. 1,393,134; Oct. 11.
Can-charging apparatus. B. E. Taylor. No. 1,393,406; Oct. 11.
Can-opener. G. N. Nutwell. No. 1,393,639; Oct. 11.
Can-opener. R. H. Waller. No. 1,393,412; Oct. 11.
Can-tops, Machine for cutting. C. Percy and W. Mills. No. 1,393,159; Oct. 11.
Canning machinery. F. O. Hutton. No. 1,393,288; Oct. 11.
Candy, Machine and method of making. W. B. Laskey. No. 1,393,144; Oct. 11.
Car-coupling. W. A. Hayworth. No. 1,393,364; Oct. 11.
Car-railway. F. W. Wolff. No. 1,393,333; Oct. 11.
Car, Railway motor-. W. C. Lipe and L. H. Kirk. No. 1,393,146; Oct. 11.
Car, Scale and transfer. H. C. Hettelsater and E. K. Scott. No. 1,393,017; Oct. 11.
Car-seal. H. L. Martin and W. C. Willis. No. 1,393,033; Oct. 11.
Cars, Support for elevator-. J. M. Murphy. No. 1,392,962; Oct. 11.
Carbureter. L. S. Campbell. No. 1,393,426; Oct. 11.
Carbureter. R. I. Henderson. Nos. 1,393,566–7; Oct. 11.
Carbureter. C. F. Schultz. No. 1,393,044; Oct. 11.
Card-counter. C. E. Carroll. No. 1,393,009; Oct. 11.
Card, Post-. A. Gilbert. No. 1,393,213; Oct. 11.
Carrier: *See*—
Folding luggage-carrier.
Pneumatic-despatch-tube carrier.
Cart, Harrow-. J. J. Kovar. No. 1,392,946; Oct. 11.
Case: *See*—
Filing-appliance case.
Caster, Swivel-. J. L. Chesnutt. No. 1,392,911; Oct. 11.
Caster, Swivel-. J. L. Chesnutt. Nos. 1,392,913–4; Oct. 11.
Casting apparatus. R. Gutmueller. No. 1,393,216; Oct. 11.
Centrifugal brake. H. A. Johnson. No. 1,393,269; Oct. 11.
Chain, Antiskid-. F. C. Gray. No. 1,393,523; Oct. 11.
Chain-links, Apparatus for making. C. Robertson and L. Laupot. No. 1,393,041; Oct. 11.
Chain-shackle. A. S. Remsberg. No. 1,393,568; Oct. 11.
Chains, Attaching means for antiskidding. G. H. and E. B. Ebert. No. 1,393,099; Oct. 11.
Chair: *See*—
Adjustable chair.
Rolling chair.
Change-making machine. G. J. Brockhagen. No. 1,393,424; Oct. 11.
Check and receipt service. A. N. E. Boos. No. 1,393,489; Oct. 11.
Chenille-strip distribution. E. F. Hathaway. No. 1,392,939; Oct. 11.
Chili-mold. F. Cordes. No. 1,393,666; Oct. 11.
Chimney-cleaner. J. G. Koudelka. No. 1,393,548; Oct. 11.
Chocolate bonbons, Machine for coating. A. Sonsthagen. No. 1,393,460; Oct. 11.
Chuck, Staybolt-. G. Cousins. No. 1,393,267; Oct. 11.
Chuck, Tool-. J. Carr. No. 1,393,260; Oct. 11.
Cigar-mold. A. A. Charbonneau. No. 1,393,067; Oct. 11.
Cigarette-machines, Tipping mechanism for. W. F. Grape. No. 1,393,526; Oct. 11.
Cigarettes for packeting, applicable also to analogous purposes, Apparatus for feeding, or both feeding and counting. W. Rose. No. 1,392,642; Oct. 11.
Cinder-guard. C. W. Kennon. No. 1,393,627; Oct. 11.
Cinematographic targets, Shutter control for. H. Hirsch. No. 1,392,941; Oct. 11.
Clamp: *See*—
Bedclothes-clamp.
Clamp. J. L. Taylor. No. 1,393,718; Oct. 11.
Clasp: *See*—
Napkin-clasp.
Cleaner: *See*—
Chimney-cleaner.
Knife-cleaner.
Cleaning apparatus. T. H. Richardson. No. 1,393,641; Oct. 11.
Clevis. E. F. Kelley. No. 1,393,379; Oct. 11.
Clinometer, Cross-sectional. A. J. H. Arthur. No. 1,393,419; Oct. 11.
Clock-controlled switch-operating device, Automatic. S. Johnsen. No. 1,393,447; Oct. 11.
Clutch. J. G. Vincent. No. 1,393,056; Oct. 11.
Clutch mechanism. H. M. Giffin. Nos. 1,393,032; Oct. 11.
Clutch mechanism. O. W. Greene. No. 1,392,936; Oct. 11.
Clutch, Reversible. J. Otti. No. 1,393,693; Oct. 11.
Coal-furnace lighter. R. B. Townley. No. 1,393,469; Oct. 11.
Coating and forming machine. I. Shafer and C. A. Small. No. 1,393,401; Oct. 11.
Coating-machine. H. Ohashi. No. 1,393,637; Oct. 11.
Cock. A. F. Auderer. No. 1,393,418; Oct. 11.
Coffee, Producing soluble concentrated. J. W. Scott. No. 1,393,045; Oct. 11.
Coin-controlled lock mechanism. R. B. Bussaird. No. 1,393,201; Oct. 11.
Communion-cup racks, Silencer for. M. P. Dinger. No. 1,393,673; Oct. 11.
Compressor. H. O. Carpenter. No. 1,393,085; Oct. 11.
Concrete construction, Moving form for. H. L. Copeland. No. 1,393,506; Oct. 11.
Concrete pile. E. C. Knuth. No. 1,393,545; Oct. 11.
Concrete structure having waterproofing reinforcement. J. W. Welch. No. 1,393,502; Oct. 11.
Condensing apparatus. E. W. Christie. No. 1,393,490; Oct. 11.
Container. F. Wallerts. No. 1,393,413; Oct. 11.
Container. R. Walter. No. 1,393,591; Oct. 11.
Containers, Forming. J. L. Ferguson. No. 1,393,274; Oct. 11.
Control system. R. E. Hellmund. No. 1,393,442; Oct. 11.
Control, System of. A. J. Hall. No. 1,393,439; Oct. 11.
Conveying system. E. F. McCabe. No. 1,393,386; Oct. 11.
Cooker, Gas-. H. Albrechtsen, and S. I. Iversen. No. 1,393,481; Oct. 11.
Cooker, Steam-. U. Kolchinsky. No. 1,393,546; Oct. 11.
Cooling apparatus. H. E. Leavitt. No. 1,393,226; Oct. 11.
Corn-husking table. R. Thompson. No. 1,393,648; Oct. 11.
Counting mechanism. W. F. Grupe. No. 1,393,525; Oct. 11.
Coupling: *See*—
Car-coupling.
Shaft-coupling.
Impulse-coupling.
Coupling. J. Schneider. No. 1,393,171; Oct. 11.
Crayon, Magazine-. F. E. Small. No. 1,393,251; Oct. 11.
Crosscut-saws, Handle for. P. C. Abbott. No. 1,392,898; Oct. 11.
Cultivator. D. K. Wilson. No. 1,393,061; Oct. 11.
Cup: *See*—
Grease-cup.
Current-collector rings, Making. C. B. Mills. No. 1,393,564; Oct. 11.
Current distribution system, Constant-. P. C. Hewitt. No. 1,393,019; Oct. 11.
Curtain-support. H. H. Dierkes. No. 1,393,672; Oct. 11.
Cutter: *See*—
Pipe-cutter.
Cutter-grinding machine. F. Müller. (Reissue.) No. 15,206; Oct. 11.
Debris or sediment collector. A. Parker. No. 1,393,389; Oct. 11.
Dental engine. G. D. Heck. No. 1,393,120; Oct. 11.
Desk device, Two-part dispensing. J. V. Washburne. No. 1,392,993; Oct. 11.
Desk, Metal. F. P. Williams. No. 1,392,998; Oct. 11.
Dial. A. J. Richardson. No. 1,393,569; Oct. 11.
Diaphragm and making such diaphragms. H. C. Egerton. No. 1,393,515; Oct. 11.
Diaphragm-confiner. K. L. Burns. No. 1,393,609; Oct. 11.
Die, Metallic-denture-drawing. R. M. Craig. No. 1,392,919; Oct. 11.
Differential brake. H. F. Johnson. No. 1,393,135; Oct. 11.
Dining-room turntable. C. Claus. No. 1,393,202; Oct. 11.
Diphenylamin, Manufacture of. A. E. Houlehan. No. 1,392,942; Oct. 11.
Disconnecting-switch. B. P. Rowe. No. 1,393,454; Oct. 11.
Dish-washing machine. M. E. Hostater. No. 1,393,687; Oct. 11.
Dispensing-machine. W. R. Tuttle. Nos. 1,393,588–9; Oct. 11.
Display apparatus. J. E. Talley and J. W. Thompson. No. 1,393,050; Oct. 11.
Doll figure. E. G. Thompson. No. 1,392,981; Oct. 11.
Door. J. Soos. No. 1,393,047; Oct. 11.
Door and gate brace. H. S. Carle. No. 1,393,611; Oct. 11.
Door-stop. D. L. McFeggans. No. 1,393,032; Oct. 11.
Doors, shutters, and curtains, Construction of rolling. J. M. Cornell. No. 1,392,918; Oct. 11.
Double tubular lock. S. A. E. Larsen. No. 1,392,949; Oct. 11.
Dredge, Suction-. O. and C. Frühling. No. 1,393,680; Oct. 11.
Drill: *See*—
Rock-drill.
Drills, Front head for rock-. L. C. Bayles. No. 1,393,072; Oct. 11.
Drilling operations, Fishing appliance for use in. D. L. Driscoll. No. 1,393,096; Oct. 11.
Drying apparatus. E. B. Ayres and H. Bogaty. No. 1,393,003; Oct. 11.
Dust-collector, Adjustable. M. W. Leonhardt. No. 1,393,558; Oct. 11.
Edge setting and burnishing machine. O. R. Angell. No. 1,392,903; Oct. 11.
Egg-candler. W. L. Morris. No. 1,393,238; Oct. 11.
Electric fixture. F. L. Butler. Nos. 1,393,078–9; Oct. 11.
Electric generator and motor. R. Rankin. No. 1,393,038; Oct. 11.
Electric heater, Adjustable. M. H. Shoenberg and G. J. Henry. No. 1,393,320; Oct. 11.
Electric heating element. L. D. Smith. No. 1,393,325; Oct. 11.
Electric-light fitting. J. C. Boynton and O. H. Nickerson. No. 1,393,075; Oct. 11.
Electric lighting apparatus. J. H. George. No. 1,393,357; Oct. 11.
Electric machine. O. Pletscher. No. 1,393,395; Oct. 11.
Electric machines, Method and means for improving the commutation of dynamo-. J. K. Kostko. No. 1,393,141; Oct. 11.

Electric signaling system. R. J. Hewett. No. 1,393,443; Oct. 11.
Electric steel-furnace. H. F. Prtwer. No. 1,392,965; Oct. 11.
Electric switch. H. Catlin. No. 1,393,612; Oct. 11.
Electric switch. F. C. De Beamer. No. 1,393,509; Oct. 11.
Electric switch. W. D. Throop. No. 1,393,649; Oct. 11.
Electric systems, Protective device for alternating-current. A. E. McColl. No. 1,393,228; Oct. 11.
Electric thermal control. M. H. Shoenberg. No. 1,393,323; Oct. 11.
Electrical condenser. F. A. Bayles and H. Higham. No. 1,393,602; Oct. 11.
Electrical condenser. W. C. Brinton, Jr. No. 1,393,077; Oct. 11.
Electrical insulator. W. J. Welch and A. H. Tracy. No. 1,393,330; Oct. 11.
Electrical resistor. W. Hoopes. No. 1,393,373; Oct. 11.
Electrical system. H. P. Clausen. No. 1,393,503; Oct. 11.
Electrical variations, Apparatus for translating. P. C. Hewitt. No. 1,393,369; Oct. 11.
Electrically-operated systems, Safety device for. W. S. Smith. No. 1,393,404; Oct. 11.
Electrode. J. M. Askin. No. 1,393,483; Oct. 11.
Emulsions, Apparatus for making. G. Mitchell. No. 1,393,632; Oct. 11.
Engine: *See*—
Dental engine.
Traction-engine.
Hydrocarbon-engine.
Internal-combustion engine.
Engine-starter. M. P. Whitney. No. 1,392,995; Oct. 11.
Engine-starting apparatus. L. M. Wolffsohn. No. 1,393,595; Oct. 11.
Engines, Cylinder of combustion-. T. B. Murray. No. 1,393,636; Oct. 11.
Engines, Fuel-injector for internal-combustion. S. P. and H. A. Cowardin. No. 1,393,090; Oct. 11.
Engines, Fuel-pump for internal-combustion. G. Large. No. 1,393,551; Oct. 11.
Engines, Ignition device for internal-combustion. L. Sanches. No. 1,393,702; Oct. 11.
Engines, Supplemental air-intake device for gas-. J. H. Seak. No. 1,393,172; Oct. 11.
Engines, Vaporizer for internal-combustion. G. N. Barcus. No. 1,393,193; Oct. 11.
Envelop, film-. J. B. Garrett. No. 1,393,109; Oct. 11.
Envelop-making machine. J. P. Ramage. No. 1,393,162; Oct. 11.
Etching apparatus. R. R. Robertson. No. 1,393,315; Oct. 11.
Evaporator. B. S. Hughes. No. 1,393,221; Oct. 11.
Excavating-machine, Convertible. H. H. Harris. No. 1,393,363; Oct. 11.
Explosive. W. B. Sturgis. No. 1,393,463; Oct. 11.
Explosives, Removing and recovering solvent from nitrocellulose. F. W. Stetson and J. L. Essex. No. 1,393,713; Oct. 11.
Eyeglass-holder. V. E. Duncanson. No. 1,393,511; Oct. 11.
Fabric. M. Katz. No. 1,393,025; Oct. 11.
Fabrics, Finishing or lustring textile. J. B. Lomax. No. 1,393,296; Oct. 11.
Faucet. R. H. Lockyer. No. 1,393,555; Oct. 11.
Faucet, Dispensing-. L. E. McNutt. No. 1,393,300; Oct. 11.
Faucet, Laundry-tub. E. G. Evensta and H. J. Anderson. No. 1,393,103; Oct. 11.
Fence, Wire. G. L. Smith. No. 1,393,176; Oct. 11.
Fender: *See*—
Wheel-fender.
Ferruginous preparations, Manufacturing. F. Stohr. No. 1,393,049; Oct. 11.
Filing-appliance case. E. B. Moseley. No. 1,393,690; Oct. 11.
Filling-machine. A. V. Fuller. No. 1,393,276; Oct. 11.
Film-reel. T. Ash and A. J. Frame. No. 1,393,420; Oct. 11.
Films, Making fibrous filtering-. C. H. Van Nostrand and H. E. Schulze. No. 1,392,989; Oct. 11.
Filter-cleaning apparatus. H. A. Brooks. No. 1,393,402; Oct. 11.
Fire-boxes, Arch for. F. J. Spillane. No. 1,393,647; Oct. 11.
Fire-extinguisher composition. H. S. Mork. Nos. 1,393,236–7; Oct. 11.
Fish-bait, Artificial. F. Dubrow. (Reissue.) No. 15,204; Oct. 11.
Fish-grapple. H. L. Brady. No. 1,393,076; Oct. 11.
Fish-pond. O. F. Benton. No. 1,393,339; Oct. 11.
Flame-maintaining device. O. Kraus. No. 1,392,948; Oct. 11.
Flashlight. W. S. Doe. No. 1,393,675; Oct. 11.
Float-register. L. E. Baker. No. 1,393,069; Oct. 11.
Flood or sluice gate, Tubular. P. Samain. No. 1,393,578; Oct. 11.
Fluid-pressure-operating device. D. S. Jacobus. No. 1,393,446; Oct. 11.
Flier and making same. E. B. Feaster. No. 1,393,856; Oct. 11.
Flywaitter and brush, Combined. C. A. Riek. No. 1,393,571; Oct. 11.
Folding luggage-carrier. L. L. Limoges. No. 1,393,294; Oct. 11.
Food, Desiccating. J. F. Kelly. No. 1,393,540; Oct. 11.
Fork and rake, Reversible. T. J. McIntosh. No. 1,393,209; Oct. 11.
Formograph. F. W. Wodrich. No. 1,393,000; Oct. 11.
Frog, Swimming. W. H. Eseawein. No. 1,393,518; Oct. 11.
Fruit juices, Manufacture of grape and other. R. W. Berridge. No. 1,393,422; Oct. 11.
Fuel-oil burner. W. J. Mead. No. 1,392,958; Oct. 11.
Fuel-oil-gas mixer. C. O. Ericson. No. 1,393,517; Oct. 11.
Fuel-saver and primer. A. G. Hunt. No. 1,393,525; Oct. 11.
Furnace: *See*—
Electric steel-furnace.
Open-hearth furnace.
Furnace-fronts, Liquid-fuel fitting for. L. E. Smith, C. Zulver, and H. A. Thompson. No. 1,393,646; Oct. 11.
Furnace-wall. E. Bernitz. No. 1,393,606; Oct. 11.
Furnaces, Apparatus for charging shaft-. P. Zender. No. 1,393,480; Oct. 11.
Fuse-bodies, Blank for and method of making. C. G. Helby, J. Burkam, D. E. Lindquist, F. L. Riggin, E. W. Allen, and R. Lau. No. 1,393,121; Oct. 11.
Fuse, Electric. F. E. Willey. No. 1,393,281; Oct. 11.
Fuse for projectiles. F. A. Sutton. No. 1,393,585; Oct. 11.
Fuse, Renewable. F. N. Conant. No. 1,394,017; Oct. 11.
Fuse-terminal-attaching means. A. L. Enstice. No. 1,393,102; Oct. 11.
Fuselage. A. Black. No. 1,393,488; Oct. 11.
Gage: *See*—
Plug-gage.
Saw-gage.
Pressure-gage.
Game. F. Taufer. No. 1,392,979; Oct. 11.
Game. F. Tenney. No. 1,393,408; Oct. 11.
Game and educational apparatus, Combined card. G. S. Swan. No. 1,392,977; Oct. 11.
Games, Shuttlecock device for use in. F. Tenney. No. 1,393,407; Oct. 11.
Garment-former. C. H. Boyuls. No. 1,392,907; Oct. 11.
Garments and like articles, Apparatus for displaying. A. W. Taylor. No. 1,393,327; Oct. 11.
Gas heating apparatus. J. Leduc and N. Gobeille. No. 1,393,227; Oct. 11.
Gas, Process and apparatus for separating moisture from. W. J. Baldwin. No. 1,393,335; Oct. 11.
Gas, Process and means for removing suspended matter from. F. W. Steere and W. C. Woodland. No. 1,393,712; Oct. 11.
Gas regulator and safety device. T. Haley. No. 1,393,217; Oct. 11.
Gases, Apparatus for burning. A. N. Diehl and F. E. Leahy. No. 1,392,921; Oct. 11.
Gasket, Hose-coupling. E. N. Roth. No. 1,393,316; Oct. 11.
Gate: *See*—
Sanitary can-gate.
Gate-fastener. W. F. Glandt. No. 1,392,934; Oct. 11.
Gear and pulley attachment, Self-tightening. M. R. Casey. No. 1,393,261; Oct. 11.
Gears, pulleys, and tools, Hub for. J. L. Clendenon. No. 1,392,915; Oct. 11.
Gearing, Reversing-. H. A. Tuttle. Nos. 1,392,982–6; Oct. 11.
Glass. A. Mitrovich. No. 1,393,235; Oct. 11.
Glass articles, Manufacture of. R. F. Hall. No. 1,393,118; Oct. 11.
Glass-drawing machine, Sheet-. R. P. Callard and C. A. Rhonemus. No. 1,393,081; Oct. 11.
Grading and leveling machine, Combined road. J. D. Little and S. Clark. No. 1,393,385; Oct. 11.
Gradometer. R. B. Potter. No. 1,393,314; Oct. 11.
Grain-cleaning machine. H. Morton. No. 1,393,154; Oct. 11.
Graphophone-cabinets, Individual-record ejector for. W. J. Young. No. 1,393,065; Oct. 11.
Grease-cup. W. H. Dupré. No. 1,393,097; Oct. 11.
Grease-cup. J. H. Miller. No. 1,393,304; Oct. 11.
Grinder, Wrist-pin. J. Singer. No. 1,393,046; Oct. 11.
Grinding internal cylindrical surfaces, Tool for. J. R. Hobbs. No. 1,393,625; Oct. 11.
Grinding-mill. L. T. Bachman. No. 1,393,334; Oct. 11.
Grinding shaving-machine blades, Machine for. M. Möller and A. E. Harms. No. 1,393,634. Oct. 11.
Grinding-wheels, Means for refinishing small. A. E. Crampton. No. 1,393,067; Oct. 11.
Gun-barrel with a breech-piece screwed on an A-tube. J. Vollmer. No. 1,393,037; Oct. 11.
Gun, Oil and grease. L. E. Wood. No. 1,393,001; Oct. 11.
Gun, Semi-automatic. L. L. Driggs. No. 1,393,353; Oct. 11.
Gutter-hanger. M. Rachlin. No. 1,392,966; Oct. 11.
Hair-cutting device. F. J. Tillman. No. 1,393,053; Oct. 11.
Hair, Device for waving. A. Kietz. No. 1,393,448; Oct. 11.
Hammer, Drop-. L. G. Bayrer. No. 1,393,073; Oct. 11.
Hammer, Drop-. O. R. Clark and C. H. Franklin. No. 1,393,501; Oct. 11.
Handbags, Lock-latch for. B. J. Richardson and C. S. Barber. No. 1,392,967; Oct. 11.
Hanger: *See*—
Gutter-hanger.
Trolley-hanger.

Harrow or terracer, Disk. J. G. Barnes. No. 1,393,336; Oct. 11.
Hat-fastening device. A. Ulli. No. 1,393,186; Oct. 11.
Hat lining or bandeau, Adjustable. M. L. Van Huele. No. 1,393,652; Oct. 11.
Haystacker. A. L. Veeder. No. 1,392,991; Oct. 11.
Headlamp. J. A. Ritter. No. 1,393,573; Oct. 11.
Heat-insulating formed body and making same. A. H. Krieger and W. L. Jordan. No. 1,393,225; Oct. 11.
Heat-interchange device. E. Wirth-Frey. No. 1,393,475; Oct. 11.
Heat-interchanger. M. von Recklinghausen. No. 1,393,452; Oct. 11.
Heat-regulator. E. H. White. No. 1,393,060. Oct. 11.
Heater: *See*—
Radiant heater.
Heater. F. W. Merritt. No. 1,393,234; Oct. 11.
Heating system, Automatic. N. B. Wales. No. 1,393,654; Oct. 11.
Heating system, Hot-air. C. McVeety. No. 1,393,301; Oct. 11.
Heel. S. Armishaw. No. 1,393,658; Oct. 11.
Heel-lifts, Machine for operating on. E. E. Winkley. No. 1,393,062; Oct. 11.
Heel, Shoe-. O. E. Sherard. No. 1,393,175; Oct. 11.
Hides and leather, Stretcher and drier for. F. J. Robinson. No. 1,392,968; Oct. 11.
Hinge, Gravity-. W. W. Wood. No. 1,393,190; Oct. 11.
Hogs, Device for holding. G. Guthrie. No. 1,393,527; Oct. 11.
Hoist and holder, Torsion-tube. P. W. Samuelson and W. Christofferson. No. 1,392,971; Oct. 11.
Holst, Portable. W. J. Herrbold. No. 1,393,218; Oct. 11.
Hook: *See*—
Ladder-hook.
Hooks, Package for belt-. W. T. Nicholson. No. 1,393,451; Oct. 11.
Humidifier. J. E. Whitacre. No. 1,393,058; Oct. 11.
Hydrocarbon-engine. W. L. Shepard. No. 1,393,174; Oct. 11.
Hydrocarbon fuel, Vaporising burner for. M. H. Kotzebue. No. 1,393,547; Oct. 11.
Hydroplane-station. P. Gerli. No. 1,392,931; Oct. 11.
Hydroscopic materials, Method and apparatus for dyeing, conditioning, and regulating the moisture content of. W. H. Carrier. No. 1,393,086; Oct. 11.
I-beam trolley. W. S. Halsey. No. 1,393,015; Oct. 11.
Ice-cream cones, Machine for making. J. T. Turner. No. 1,393,587; Oct. 11.
Impulse-coupling. W. E. Schwarsmann and C. F. Toren. No. 1,393,703; Oct. 11.
Incubator, Electric. J. A. Howard, Sr. No. 1,393,531; Oct. 11.
Indicating device. E. B. Clark. No. 1,393,500; Oct. 11.
Indicator: *See*—
Range and bearing indicator.
Insole and making same. G. H. Black. No. 1,392,906; Oct. 11.
Insulating composition of matter. F. J. Cook. No. 1,393,346; Oct. 11.
Insulator. H. N. Richards. No. 1,393,398; Oct. 11.
Intermittent-motion mechanism. G. I. Hohl. No. 1,393,219; Oct. 11.
Internal-combustion engine. T. E. Davis. No. 1,393,670; Oct. 11.
Internal-combustion engine. J. Hutchinson. No. 1,393,132; Oct. 11.
Internal-combustion engine. K. O. Keller. No. 1,393,626; Oct. 11.
Internal-combustion engine. V. Link. No. 1,393,295; Oct. 11.
Internal-combustion engine. P. R. Wheeler. No. 1,393,593; Oct. 11.
Iron: *See*—
Self-heating smoothing-iron.
Jack: *See*—
Lifting-jack.
Jar-holder. T. S. Catlin. No. 1,393,010; Oct. 11.
Joint: *See*—
Lock-joint.
Journal-box hinge-pin. W. F. Kiesel, Jr. No. 1,393,139; Oct. 11.
Knife-cleaner. P. Lamb. No. 1,393,449; Oct. 11.
Knitting-machines, Take-up mechanism for. F. P. Reynolds. No. 1,393,039; Oct. 11.
Knob-lock. L. Huffman. No. 1,393,021; Oct. 11.
Labeling-machine. O. S. Sells. No. 1,393,581; Oct. 11.
Lacing device. A. C. Whiteman. No. 1,393,188; Oct. 11.
Ladder attachment. H. Hunt. No. 1,393,536; Oct. 11.
Ladder-hook. F. M. Stiles. No. 1,393,048; Oct. 11.
Lamp. E. J. Dalley, Jr. No. 1,393,432; Oct. 11.
Lasting mechanism, End-. C. F. Pym. No. 1,393,396; Oct. 11.
Latches, Automatic safety spring-. A. E. Salsich. No. 1,393,246; Oct. 11.
Lathe. L. G. Daniels. No. 1,393,206; Oct. 11.
Lathe, Automatic. L. G. Daniels. No. 1,393,205; Oct. 11.
Lathe, Turning and facing. W. F. Groene. No. 1,393,115; Oct. 11.
Lathes, Automatic feed and reverse for. M. G. Husted. No. 1,393,131; Oct. 11.
Lead arsenate, Manufacture of. R. E. Wilson. No. 1,393,474; Oct. 11.
Leather finishes and making same, Color-base for. J. H. Pfingsten. No. 1,393,697; Oct. 11.
Level and bevel, Combination. W. C. Hoyt. No. 1,393,533; Oct. 11.
Level device. C. F. Thullen. No. 1,393,328; Oct. 11.
Level, Spirit-. G. Q. Bedortha. No. 1,393,338; Oct. 11.
Lifter: *See*—
Valve-lifter. Valve-spring lifter.
Lifting-jack. A. Peteler. No. 1,393,242; Oct. 11.
Lifting-jack. J. G. Sauer. No. 1,393,247; Oct. 11.
Lifting-jack and tire expander and contractor. J. Dreher and L. A. Olmscheak, Combination. No. 1,393,271; Oct. 11.
Light-projector. H. Kirschberg. No. 1,393,027; Oct. 11.
Liquid-containers, Combined spout and valve for. W. W. Wilson. No. 1,393,331; Oct. 11.
Liquid, Non-inflammable volatile. A. Henning. No. 1,393,124; Oct. 11.
Loading apparatus, Portable. A. Grandjean. No. 1,393,214; Oct. 11.
Localizer. C. C. Culver. No. 1,393,431; Oct. 11.
Lock: *See*—
Automobile-lock. Knob-lock.
Battery switch-lock. Permutation-lock.
Double tubular lock. Steering-wheel lock.
Locks. A. Block. No. 1,393,006; Oct. 11.
Lock. F. J. Matchette. No. 1,393,149; Oct. 11.
Lock-joint. J. Forster. No. 1,393,679; Oct. 11.
Locomotive. W. L. Shepard and E. A. Beals. No. 1,393,402; Oct. 11.
Locomotive, Pulverized-fuel-burning. J. E. Muhlfeld. No. 1,393,240; Oct. 11.
Logs, Sawing taper. A. L. Haley. No. 1,393,520; Oct. 14.
Looms, Feeler mechanism for. A. E. Rhoades. No. 1,393,397; Oct. 11.
Looms, Rocker-shaft support for. H. W. Youngquist. No. 1,393,416; Oct. 11.
Looms, Spring-support for. S. H. Cooke and J. O. Miller. No. 1,393,347; Oct. 11.
Looms, Thread-cutter for. L. Jourdain. No. 1,393,539; Oct. 11.
Lubricating shackle-bolt, Automatic. S. Hough and W. Lohr. No. 1,393,128; Oct. 11.
Lubricator. W. J. Beagle. No. 1,393,337; Oct. 11.
Lubricator. F. Stone. No. 1,393,584; Oct. 11.
Lug, Flexible, Mud-. F. M. Sturgis. No. 1,393,252; Oct. 11.
Lunch kit. G. P. Altenberg. No. 1,393,657; Oct. 11.
Machine element. Z. P. Candee. No. 1,393,610; Oct. 11.
Maps, pictures, &c., Forming relief-. K. Wenschow. No. 1,393,255; Oct. 11.
Material-rack. G. M. Turner. No. 1,393,054; Oct. 11.
Materials, Apparatus for delivering. F. P. Martin. No. 1,393,561; Oct. 11.
Mattress. P. Gardner. No. 1,393,619; Oct. 11.
Measuring and dispensing apparatus, Liquid. W. H. Dutton and C. E. Stone. No. 1,393,272; Oct. 11.
Medicinal preparations, Solution-identifying means for. M. F. Thompson. No. 1,393,253; Oct. 11.
Medicine, Device for administering. W. J. Evans. No. 1,393,209; Oct. 11.
Merry-go-round. A. Lewandowski and M. Katafiass. No. 1,393,629; Oct. 11.
Metal-extrusion-press. F. G. Schrang. No. 1,393,579; Oct. 11.
Metal-working machine. O. S. Hammagren. No. 1,392,937; Oct. 11.
Metals and their surfaces, Treatment of. B. A. Keller. No. 1,393,290; Oct. 11.
Meters, Mechanical cut-out for float-. L. E. Baker. No. 1,393,421; Oct. 11.
Milk-can spout, Safety. W. F. Sharbaugh. No. 1,393,250; Oct. 11.
Milk, Preservative for. G. Grindrod. No. 1,393,282; Oct. 11.
Milking-machine system. H. McCornack. No. 1,393,387; Oct. 11.
Mill: *See*—
Grinding-mill.
Mixer: *See*—
Fuel-oil-gas mixer.
Mixing-machine. T. J. Sturtevant. No. 1,393,181; Oct. 11.
Mold: *See*—
Cigar-mold. Chill-mold.
Monkey and pipe wrench, Combination. F. Kobis. No. 1,393,028; Oct. 11.
Mop or brush, Electric floor. J. A. Howard, Sr. No. 1,393,532; Oct. 11.
Mopping-machine. F. A. Espeland. No. 1,393,100; Oct. 11.
Motor: *See*—
Spring-motor. Tide-motor.
Motor-governing device. W. W. Dean. No. 1,393,433; Oct. 11.
Motorcycles, Side-car attachment for. C. E. Hastings. No. 1,392,938; Oct. 11.
Mouse and rat poisoner. W. T. Vaden, Jr. No. 1,393,500; Oct. 11.
Music, Strip for correcting. J. A. Spencer. No. 1,393,710; Oct. 11.
Muster-check board. R. L. Johnson. No. 1,393,136; Oct. 11.
Nail-container and nail-delivering device. A. R. W. Tanner. No. 1,393,586; Oct. 11.
Napkin-clasp. S. M. Ryason. No. 1,393,577; Oct. 11.
Neck-yoke fastener. F. W. Berger. No. 1,393,487; Oct. 11.
Necktie-holder. J. T. Clark. No. 1,393,262; Oct. 11.
Nozzle-holder. J. Eastman. No. 1,393,098; Oct. 11.

Nozzle, Sand-blast. J. L. Matthews. No. 1,393,562; Oct. 11.
Nut. A. B. Pratt. No. 1,393,160; Oct. 11.
Nut blanching machine. T. Sangiuliano. No. 1,393,168; Oct. 11.
Nut, Wing-. B. H. Smith. No. 1,393,459; Oct. 11.
Nuts, Machine for making. A. Wolfram. No. 1,393,063; Oct. 11.
Oil-burning apparatus. F. I. du Pont. No. 1,393,207; Oct. 11.
Oil-burning apparatus, Safety device for. J. S. Gander. No. 1,393,212; Oct. 11.
Oil-cans, Relief-valve for. H. B. Miller. No. 1,393,034; Oct. 11.
Oil-extracting apparatus. V. Giampietro. No. 1,393,621; Oct. 11.
Oil or other heated liquids, Apparatus for cooling. R. A. Metz. No. 1,393,631; Oct. 11.
Oil service-fountain. F. Corbell. No. 1,393,507; Oct. 11.
Oil-tank. A. E. De Save. No. 1,393,719; Oct. 11.
Oils, Reclaiming used lubricating-. W. L. Jordan. No. 1,393,223; Oct. 11.
Oleins, Producing. H. F. Saunders. Nos. 1,393,248-9; Oct. 11.
Open-hearth furnace. V. B. Browne. No. 1,393,403; Oct. 11.
Opener. C. J. Krysanowsky. No. 1,394,029; Oct. 11.
Ophthalmic mounting. F. R. Bishop. No. 1,393,340; Oct. 11.
Ores, Process and apparatus for recovering metallic values from. F. B. Church. No. 1,393,428; Oct. 11.
Orientator. W. G. Ruggles. No. 1,393,456; Oct. 11.
Oscillation, Dynamic system adapted to impart to a mechanical system a rapid movement of. L. L. B. Denis. No. 1,393,671; Oct. 11.
Oscillators, Means for producing high-frequency. W. C. White. No. 1,393,594 Oct. 11.
Oven. E. Trood. No. 1,393,650; Oct. 11.
Oven, Coke and gas. D. M. Rugg. No. 1,393,455; Oct. 11.
Oven, Matrix-scorching. S. T. Willson. No. 1,393,473; Oct. 11.
Packages, Machine for tying. H. J. Schmidt. No. 1,392,972; Oct. 11.
Packing-ring. H. Kistner. No. 1,393,542; Oct. 11.
Packing-tool. K. Bergsland. No. 1,393,606; Oct. 11.
Paint. A. C. Holmgren. No. 1,393,220; Oct. 11.
Panel. H. J. Haon. No. 1,393,250; Oct. 11.
Pantograph apparatus. P. Ritchie. No. 1,393,572; Oct. 11.
Paper and ink therefor, Transfer-. H. Kruse. No. 1,393,142; Oct. 11.
Paper-box machine. J. T. Robinson. G. B. Gooding, and D. J. Reese. No. 1,392,960; Oct. 11.
Paper-packages, Machine for producing interfolded. S. Wheeler. No. 1,393,415; Oct. 11.
Parachute. R. R. Calthrop. No. 1,393,082; Oct. 11.
Parallel ground-throw switch-stand. T. H. Edelblute. No. 1,393,677; Oct. 11.
Paste-applying machine. F. Coates. No. 1,393,505; Oct. 11.
Peat and similar substances, Treating. F. T. Dow. No. 1,393,435; Oct. 11.
Pectous material and making same. F. G. Beylik. No. 1,393,669; Oct. 11.
Perforator. E. H. Pierson. No. 1,393,243; Oct. 11.
Permutation-lock. E. M. O. Dreux-Dubois. No. 1,393,269; Oct. 11.
Phonograph sound-box. A. A. Dennis. No. 1,393,434; Petrol, Production of. F. Timker. No. 1,393,184; Oct. 11.
Phonograph-record-cabinet attachment. G. M. Henry. No. 1,393,284; Oct. 11.
Oct. 11.
Phonographs, Automatic repeating mechanism for. L. R. McDonald. Nos. 1,393,229-30; Oct. 11.
Phonographs, Sound-reproducer for. J. W. Forderer. No. 1,393,106; Oct. 11.
Piano action, Player-. H. R. Heller. No. 1,393,123; Oct. 11.
Picric acid, Producing. C. M. A. Stine and J. L. Gilson. No. 1,393,714; Oct. 11.
Picture-film reels, Retainer for motion-. E. M. Chase. No. 1,392,910; Oct. 11.
Picture spinning-top. W. R. D. McQuarrie. No. 1,393,148; Oct. 11.
Pigment and producing same. P. Fireman. Nos. 1,392,925-7; Oct. 11.
Pin: *See*—
Bowling-pin. Journal-box hinge-pin.
Pin-puller. J. Ditson. No. 1,393,094; Oct. 11.
Pins, &c., Puller for crank-. G. G. Kepler. No. 1,393,026; Oct. 11.
Pipe-cutter. L. W. Konneman. No. 1,393,156; Oct. 11.
Piston. J. R. Hobbs. No. 1,393,265; Oct. 11.
Piston-ring. A. Frykman. No. 1,393,211; Oct. 11.
Piston-rings, Automatic rough-grinding mechanism for. J. H. Cummings. No. 1,393,668; Oct. 11.
Pistons, Antislap device for. C. F. Bradley. No. 1,393,490; Oct. 11.
Plastic material, Die for making articles of. A. W. Gates. No. 1,393,014; Oct. 11.
Pliers and end wrench. J. A. Schlehr. No. 1,393,390; Oct. 11.
Plug-gage. A. A. Martell. No. 1,393,233; Oct. 11.
Pneumatic alarm. S. Kushner. No. 1,393,382; Oct. 11.
Pneumatic-despatch-tube carrier. F. R. Talsey. No. 1,393,466; Oct. 11.
Pneumatic vehicle-wheel. A. W. Eckhardt. No. 1,393,514; Oct. 11.
Potassium bromid, Making. E. O. Barstow and C. W. Jones. No. 1,392,905; Oct. 11.
Powder charge, Propellent smokeless-. C. I. B. Henning. No. 1,393,623; Oct. 11.
Power-head. P. A. Myers. No. 1,393,306; Oct. 11.
Power plant. O. Kraus. No. 1,392,947; Oct. 11.
Power-shovel. H. H. Harris. Nos. 1,393,361-2; Oct. 11.
Power-transmitting mechanism. E. B. Allen. No. 1,393,417; Oct. 11.
Press: *See*—
Metal-extrusion press.
Presses, Billet and rod handling means for metal-extrusion. F. G. Schrang. No. 1,393,580; Oct. 11.
Pressure-gage. R. M. Nelson and E. L. Aschenbach. No. 1,393,155; Oct. 11.
Printing-machines, Transfer mechanism for. L. E. Morrison. No. 1,393,036; Oct. 11.
Printing-machines, Tripping mechanism for. L. E. Morrison. No. 1,393,037; Oct. 11.
Propeller mechanism. J. E. Ollivier. No. 1,393,157; Oct. 11.
Puller: *See*—
Pin-puller.
Pulley. A. W. L. Schermuly. No. 1,393,723; Oct. 11.
Pulley and sheath therefor. F. E. Matthews. No. 1,392,957; Oct. 11.
Pump. M. E. Goss. No. 1,392,928; Oct. 11.
Pump. J. M. Kelley. No. 1,393,138; Oct. 11.
Pump, Rotary. W. J. Platt. No. 1,393,698; Oct. 11.
Pumping-trap, Duplex. F. C. Farnsworth. No. 1,392,924; Oct. 11.
Punch and die retainer. C. C., C. A., and O. K. Richard. No. 1,393,040; Oct. 11.
Punch-presses, Guard for. M. J. Dubisky. No. 1,393,516; Oct. 11.
Puzzle. G. A. Parmenter. No. 1,393,565; Oct. 11.
Rack: *See*—
Material-rack.
Radiant heater. M. H. Shoenberg and G. J. Henry. No. 1,393,321; Oct. 11.
Radiator-core. W. Sackren. No. 1,393,042; Oct. 11.
Radiators, Shutter apparatus for. J. F. Raleigh. No. 1,393,161; Oct. 11.
Railway safety appliance. E. E. Shear and W. G. Waechter. No. 1,393,173; Oct. 11.
Railways, Safety electric signal for. L. Sanchez. No. 1,393,701; Oct. 11.
Railway-spike. W. C. Clark. No. 1,393,343; Oct. 11.
Railway-tickets, Machine for printing and issuing. F. L. Fuller. No. 1,392,920; Oct. 11.
Railway-traffic-controlling apparatus. A. V. T. Day. No. 1,393,011; Oct. 11.
Raisins, Apparatus for cap-stemming. T. B. Hunter. No. 1,393,287; Oct. 11.
Range and bearing indicator. E. Meltner. No. 1,392,959; Oct. 11.
Ratchet mechanism. F. A. Ost. No. 1,393,692; Oct. 11.
Razor, Folding safety-. A. M. J. E. Reboul. No. 1,393,700; Oct. 11.
Razor-grinder. S. O. Heindl. No. 1,393,283; Oct. 11.
Razor-hone. T. A. McCulley. No. 1,393,297; Oct. 11.
Reach, Adjustable. F. H. Bittner. No. 1,393,661; Oct. 11.
Reaming-tool. G. Mizzell. No. 1,392,960; Oct. 11.
Receptacles, Means for sealing. C. Hammer. No. 1,393,016; Oct. 11.
Reclaiming by-products, Process and apparatus for. P. A. Paulson. No. 1,393,241; Oct. 11.
Recreation-grounds or race-courses, Indicator for use on. A. Watkinson. No. 1,393,414; Oct. 11.
Reel: *See*—
Film-reel.
Reeling-machine. W. F. Hosford. No. 1,393,280; Oct. 11.
Reflector, Radiant. G. J. Henry. No. 1,393,368; Oct. 11.
Refrigerating-machine. E. T. Williams. No. 1,392,997; Oct. 11.
Register: *See*—
Float-register.
Register. J. J. Albright. No. 1,392,899; Oct. 11.
Regulator: *See*—
Heat-regulator.
Regulator. I. J. Foltz. No. 1,393,615; Oct. 11.
Relay. P. C. Hewitt. No. 1,393,018; Oct. 11.
Resilient wheel. C. Smith. No. 1,393,324; Oct. 11.
Resilient wheel. A. Turnbull. No. 1,393,651; Oct. 11.
Rim, Collapsible. W. E. Marquart. No. 1,393,362; Oct. 11.
Rim-tool. S. J. Hurwitz. No. 1,392,943; Oct. 11.
Rim, Wheel-. H. M. Lambert. No. 1,393,030; Oct. 11.
Ring: *See*—
Packing-ring. Piston-ring.
Road-building machine. T. F. Bower. No. 1,393,341; Oct. 11.
Road-machine. O. M. Lackie. No. 1,393,724; Oct. 11.
Roads and streets, Pavement for. C. H. Purcell and L. I. Hewes. No. 1,393,699; Oct. 11.
Rock-drill. J. C. Wright. No. 1,393,257; Oct. 11.
Rods, pipes, &c., Method of and apparatus for pickling. J. T. Moltrup. No. 1,393,633; Oct. 11.
Rolling chair, Convertible. C. B. Steele. No. 1,393,401; Oct. 11.
Safety-switch. M. H. Shoenberg. No. 1,393,322; Oct. 11.
Salts of ethylenic halogenhydrins, Manufacture of ethereal. J. Altwegg and J. Landrivon. No. 1,393,191; Oct. 11.

Sand, Method of and means for reclaiming molding. J. C. Davis. No. 1,393,092; Oct. 11.
Sanitary can-gate. A. F. La Gier. No. 1,393,689; Oct. 11.
Sash-holder. E. Olson. No. 1,393,309; Oct. 11.
Saw, Band-. J. W. Vaughan. No. 1,392,990; Oct. 11.
Saw-gage. F. E. Hinds. No. 1,393,126; Oct. 11.
Scale, Automatic. J. W. Bryce. No. 1,392,906; Oct. 11.
Scale, Computing-. W. F. Stimpson. No. 1,392,976; Oct. 11.
Scale, Dial-. M. H. Starr. No. 1,393,179; Oct. 11.
Screen: *See*—
Adjustable window-screen. Window-screen.
Wind-screen.
Screen. L. C. Soteros and J. S. Cavalenes. No. 1,393,405; Oct. 11.
Scrubbing-machine. F. A. Espeland. No. 1,393,101; Oct. 11.
Scrubbing-machine. L. Jarusz. No. 1,393,133; Oct. 11.
Scrubbing-machine. A. H. Rowe. No. 1,393,453; Oct. 11.
Self-heating smoothing-iron. F. M. E. Blass. No. 1,393,423; Oct. 11.
Separator: *See*—
Steam-separator.
Separators, Producing. C. J. Thatcher. No. 1,393,467; Oct. 11.
Sewing-machine ruffler. H. H. Russell. No. 1,392,970; Oct. 11.
Sewing-machine take-up mechanism. R. K. Hohmann. No. 1,393,127; Oct. 11.
Sewing-machines, Binder for. J. E. Chalman. No. 1,393,496. Oct. 11.
Shaft-coupling. A. C. Woodward. No. 1,393,064; Oct. 11.
Shaft-coupling and making same. C. Steenstrup. No. 1,393,582; Oct. 11.
Sharpener, Drill-. W. A. Smith. No. 1,393,403; Oct. 11.
Sharpener, Pencil-. W. C. Johnson. No. 1,393,378; Oct. 11.
Shelf-support. C. H. J. Dilg. No. 1,393,012; Oct. 11.
Shock-absorber. E. Adamson. No. 1,392,902; Oct. 11.
Shock-absorber. H. J. Howerth. No. 1,393,374; Oct. 11.
Shock-absorbing spring. J. Y. King. No. 1,393,140; Oct. 11.
Shoe and making same. J. F. Feehan. No. 1,393,730; Oct. 12.
Shoe, Traction-. L. E. Slauson. No. 1,393,709; Oct. 11.
Shoes, Making. E. C. Beaumont. No. 1,393,486; Oct. 11.
Shovel: *See*—
Power-shovel.
Shuttles, Bobbin-holder for. S. R. Liberty. No. 1,393,145; Oct. 11.
Sighting instruments, Stabilizing apparatus for. V. H. Godilion. No. 1,393,437; Oct. 11.
Sign. W. Bach. No. 1,393,067; Oct. 11.
Sign, Electric. M. J. Carboni. No. 1,393,008; Oct. 11.
Signal: *See*—
Traffic-signal.
Silk, Manufacture of artificial. E. Bronnert. No. 1,393,197; Oct. 11.
Silk, Manufacture of artificial. E. Bronnert. No. 1,393,199; Oct. 11.
Silk, Manufacture of viscose. E. Bronnert. No. 1,393,198; Oct. 11.
Sizing and making the same. W. P. Upham. No. 1,392,988; Oct. 11.
Skate. W. W. Karro. No. 1,393,024; Oct. 11.
Snow-sweeper, Sidewalk. J. Pantaleone and M. Zoda. No. 1,393,640; Oct. 11.
Socket, Pull-. R. A. Schoenberg (now R. A. Belmont). No. 1,393,043; Oct. 11.
Sodium carbonate and potassium chlorid from natural alkaline brines, Separating. J. W. Beckman. No. 1,393,603; Oct. 11.
Sole. M. E. Johnson. No. 1,393,688; Oct. 11.
Sole-marking machine. M. E. Fernald. No. 1,393,105; Oct. 11.
Soldering machine, Can-. A. W. Nielsen. No. 1,392,964; Oct. 11.
Sound-modifying device. J. L. McQuarrie. No. 1,393,557; Oct. 11.
Spark-plug. H. E. Gill. No. 1,392,933; Oct. 11.
Spanners, wrenches, clamps, pipe-cutters, pipe-grips, &c., Construction of adjustable. F. Humphris. No. 1,393,534; Oct. 11.
Spectacles, Nose-guard for. W. G. Miller. No. 1,393,152; Oct. 11.
Speed-indicating instrument or the like. H. W. Henke. No. 1,393,624; Oct. 11.
Speed-regulating device. G. J. Neth. No. 1,392,963; Oct. 11.
Spindles, Driving mechanism for machine-. F. O. Farwell. No. 1,393,104; Oct. 11.
Spoon-holder. A. P. Rohmiller. No. 1,393,574; Oct. 11.
Spotlight-support. A. Falk. No. 1,393,678; Oct. 11.
Spring: *See*—
Bed-spring. Vehicle-spring.
Shock-absorbing spring.
Spring. R. E. Gaines. No. 1,393,618; Oct. 11.
Spring-bumper. H. W. Dyer. No. 1,393,354; Oct. 11.
Spring for pin-setting machines. J. Gessert. No. 1,393,110; Oct. 11.
Spring-motor. H. G. Saal. No. 1,393,167; Oct. 11.
Spring-wheel. A. F. McGrath. No. 1,393,630; Oct. 11.
Stamp, Time-. R. H. Thompson. No. 1,393,410; Oct. 11.
Stamping and issuing machine, Check. C. Mansbel. No. 1,393,232; Oct. 11.
Stamping-machine. E. H. Duval. No. 1,393,513; Oct. 11.
Stand: *See*—
Adjustable stand. Typist's copy-stand.
Stands for motorcycles and the like, Catch for. C. L. Croft. No. 1,393,508; Oct. 11.
Staybolt structure. E. J. Dodds. No. 1,393,351; Oct. 11.
Steam-boiler economizer system. D. S. Jacobus. No. 1,806,445; Oct. 11.
Steam-separator. T. H. McGraw, Jr. No. 1,393,298; Oct. 11.
Steamer. M. Levin. No. 1,393,725; Oct. 11.
Steering-wheel lock. J. Nelson. No. 1,393,731; Oct. 11.
Stencil, Combination-. J. Schmidinger. No. 1,393,170; Oct. 11.
Stenciling material. E. W. Hill. No. 1,393,444; Oct. 11.
Steriliser. A. H. Jessup. No. 1,392,944; Oct. 11.
Stock. G. F. Kight. No. 1,393,380; Oct. 11.
Stoker, Underfeed. F. Koenig. No. 1,393,292; Oct. 11.
Stokers, Dumping apparatus for. M. Alpern. No. 1,393,598; Oct. 11.
Stove and range. E. O. Howie and J. E. Leonard. No. 1,393,129; Oct. 11.
Stove, Cooking-. R. L. Martin. No. 1,392,956; Oct. 11.
Stove, Oil-. J. Shannon. No. 193,706; Oct. 11.
Strainer, Milk-. A. M. Lorents. No. 1,393,031; Oct. 11.
Strip-serving device. F. S. Anable. No. 1,393,002; Oct. 11.
Strips, Clocking device for detail-. H. C. Burke. No. 1,393,342; Oct. 11.
Structural elements. R. Kemp. No. 1,393,541; Oct. 11.
Submarine signaling. R. L. Wegel. No. 1,393,471; Oct. 11.
Suitcase. B. Elliott. No. 1,393,273; Oct. 11.
Support. W. T. Tanking, Jr. No. 1,393,052; Oct. 11.
Suspenders. D. Glickman. No. 1,392,935; Oct. 11.
Switch: *See*—
Disconnecting-switch. Safety-switch.
Electric switch.
Switch. A. H. Perry. No. 1,393,312; Oct. 11.
Switch construction, Inclosed-. B. E. Getchell. No. 1,393,111; Oct. 11.
Switch-point-locking device, Automatic. J. K. Burress. No. 1,393,662; Oct. 11.
Switch-rail. E. N. Johnson. No. 1,393,538; Oct. 11.
Switch-throw. P. Borkleen. No. 1,393,496; Oct. 11.
Switching, Method of and means for. N. J. Conrad. No. 1,393,344; Oct. 11.
Syringe, Hypodermic. H. Lomas and J. Mortimer. No. 1,393,720; Oct. 11.
System of control. N. W. Storer and R. E. Hellmund. No. 1,393,715; Oct. 11.
Table: *See*—
Corn-husking table.
Table-leaf support. J. Peterson. No. 1,393,566; Oct. 11.
Tack, Thumb-. M. G. Lawrence. No. 1,392,950; Oct. 11.
Tag-holder. H. E. Williams. No. 1,392,996; Oct. 11.
Talking-machines, Reproducer for. W. T. Lahia. No. 1,393,293; Oct. 11.
Talking-machines, Sound-box for. W. W. Moyer. No. 1,393,691; Oct. 11.
Tank: *See*—
Bull-tank.
Teeth, Hollow metal crown for artificial. J. L. P. Roumégière. No. 1,393,106; Oct. 11.
Telegraph, Ship's. C. J. Henschel. No. 1,393,684; Oct. 11.
Telephone-exchange system. C. L. Goodrum. No. 1,393,522; Oct. 11.
Telephone-exchange system. J. L. McQuarrie and C. L. Goodrum. Nos. 1,393,558–9; Oct. 11.
Telephone-exchange system. D. M. Taggart. No. 1,393,465; Oct. 11.
Telephone-exchange system. S. B. Williams, Jr. No. 1,393,728; Oct. 11.
Telephone system. H. P. Clausen. Nos. 1,393,429–30; Oct. 11.
Telephone system. W. L. Dodge. No. 1,393,352; Oct. 11.
Telephone system. A. B. Sperry. No. 1,393,626; Oct. 11.
Telephone system, Machine-switching. H. P. Clausen. No. 1,393,502; Oct. 11.
Telephone system, Machine-switching. C. L. Goodrum. No. 1,393,521; Oct. 11.
Temperature, Device for treatment by. J. F. Morris. No. 1,393,153; Oct. 11.
Temperature-indicating device. A. L. Gersdorff. No. 1,393,279; Oct. 11.
Templet-holders, Adjustable templet-form holder for self-centering. J. D. Henon. No. 1,393,125; Oct. 11.
Thermally-operated device. W. E. Irish. No. 1,393,376; Oct. 11.
Thermo-couple. M. A. Hunter. No. 1,393,375; Oct. 11.
Thread-cutting shuttle. W. M. Rossiter. No. 1,393,643; Oct. 11.
Ticket-holder. J. V. Perrin. No. 1,393,696; Oct. 11.
Tide-motor. H. Williams. No. 1,393,472; Oct. 11.
Tile, Drain-. E. E. Trowbridge. No. 1,393,329; Oct. 11.
Timepieces, Device for mounting. G. T. Blunden. No. 1,393,607; Oct. 11.
Timing mechanism. R. M. G. Phillips. No. 1,393,394; Oct. 11.
Tipping mechanism. W. F. Grupe. No. 1,393,524; Oct. 11.
Tire-carrier and rim spreader and constrictor, Combined. O. C. Schlenker. No. 1,393,819; Oct. 12.
Tire-cutting machine. W. C. Reinhardt and O. H. Banker. No. 1,393,164; Oct. 11.
Tire holder, Spare-. A. Maurer and J. J. Brosseit. No. 1,393,565; Oct. 11.
Tire, Pneumatic. E. W. Lee. No. 1,392,951; Oct. 11.
Tire-protector. Detachable. B. E. Brattwedar. No. 1,393,196; Oct. 11.

Tire shoes, Making pneumatic-. F. W. Russell. No. 1,806,644; Oct. 11.
Tire-tread-removing device. J. M. Roll. No. 1,393,375; Oct. 11.
Tire-valve. G. E. Draper. No. 1,392,923; Oct. 11.
Tire-valves, Tool for removing cores and valve-core stools from. J. Heil. No. 1,393,365; Oct. 11.
Tire, Vehicle-. W. D. McNaull. No. 1,392,953; Oct. 11.
Tires, Puncture-proof shoe for pneumatic. S. J. Todd. No. 1,393,155; Oct. 11.
Tires, Spring-cushion device for vehicle-. M. Jelalian. No. 1,393,277; Oct. 11.
Toaster, Electric. E. A. Christoph. No. 1,393,427; Oct. 11.
Torpedo-boat, Submarine. J. Barraja-Franceafelder. No. 1,393,601; Oct. 11.
Toy. H. F. Dunning. No. 1,393,512; Oct. 11.
Toy. J. H. Knight. No. 1,393,544; Oct. 11.
Toy. E. B. Stevenson. No. 1,393,583; Oct. 11.
Toy, Educational. W. M. Rasely. No. 1,393,163; Oct. 11.
Toy, Mechanical. F. Olkowski. No. 1,393,656; Oct. 11.
Traction-engine. J. C. French. No. 1,393,519; Oct. 11.
Traction-machine. G. T. Brite. No. 1,393,462; Oct. 11.
Traction-wheel. W. N. Florence. No. 1,393,210; Oct. 11.
Tractor driving mechanism. J. A. Thompson. No. 1,393,409; Oct. 11.
Tractor, Garden-. L. J. Warner. No. 1,392,902; Oct. 11.
Tractor-wheel. L. E. Slauson. Nos. 1,393,707–8; Oct. 11.
Tractors, Centrifugal governor for Fordson. G. E. Canfield. No. 1,393,064; Oct. 11.
Traffic-signal. S. T. King. No. 1,393,881; Oct. 11.
Trap: *See*—
Animal-trap. Pumping-trap.
Burglar-trap.
Trap. A. P. Greim. No. 1,393,438; Oct. 11.
Trimming-machine. E. E. Winkley. No. 1,393,650; Oct. 11.
Trolley-catcher. J. R. Ricketts. No. 1,393,570; Oct. 11.
Trolley-clamping ear, Catenary. P. G. Schwarz. No. 1,393,458; Oct. 11.
Trolley-hanger. L. F. Brahmer. No. 1,393,491; Oct. 11.
Trolley-head. I. Van der Straeten. No. 1,393,254. Oct. 11.
Trolley-wire extension-splice. M. W. Hermes. No. 1,393,530; Oct. 11.
Trough, Water-. L. J. Hogan and L. L. Furman. No. 1,393,686; Oct. 11.
Truck-brake. J. O. Garrett. No. 1,393,013; Oct. 11.
Truck-cab. K. S. Baxter. No. 1,393,071; Oct. 11.
Truck-loader. J. A. Cole. No. 1,392,911; Oct. 11.
Truck-loading device. W. J. Conway. No. 1,393,345; Oct. 11.
Truck, Spring-. H. H. Harris. No. 1,393,360; Oct. 11.
Truck, Trailer-. A. E. Cadman. No. 1,393,497; Oct. 11.
Trucks, &c., Dumping-body for. G. S. Schlatter and P. Boeckly. No. 1,393,169; Oct. 11.
Trucks, Safety attachment for railway-car. C. L. Pittman. No. 1,393,313; Oct. 11.
Trucks, Steering mechanism for self-propelled crane-. H. H. Harris. No. 1,393,119; Oct. 11.
Truss, Surgical. A. M. Scarff. No. 1,393,722; Oct. 11.
Truss unit, Experimental. H. E. Brown. No. 1,393,607; Oct. 11.
Tub: *See*—
Bathtub.
Tuba, &c., Support for. C. L. Hyde. No. 1,393,023; Oct. 11.
Tube-cleaners and other purposes, Cutter for. W. S. Elliott. No. 1,393,613; Oct. 11.
Tube-expander. P. Gavin. No. 1,393,620; Oct. 11.
Turbine, Steam-. J. F. Grey. No. 1,393,114; Oct. 11.
Turbine system, Geared. C. A. Parsons, S. S. Cook, and L. M. Douglas. Nos. 1,393,391–3; Oct. 11.
Turnbuckle. S. Ferragamo. No. 1,393,614; Oct. 11.
Turner, Sheet-. G. B. Semley. No. 1,393,400; Oct. 11.
Type and type holders, Making. C. A. Neyland. Nos. 1,393,307–8; Oct. 11.
Typewriter. E. Berneburg. No. 1,393,194; Oct. 11.
Typewriter and computing-machine, Combined. H. L. Pitman. No. 1,393,244; Oct. 11.
Typewriting and computing machine, Combined. J. Waldheim. No. 1,393,187; Oct. 11.
Typewriting-machine. W. F. Helmond. No. 1,392,940; Oct. 11.
Typewriting-machine. J. A. B. Smith. No. 1,393,177; Oct. 11.
Typewriting-machine. B. C. Stickney. No. 1,392,975; Oct. 11.
Typewriting-machines, Platen-clutch for. C. Gabrielson. No. 1,393,277; Oct. 11.
Typist's copy-stand. C. F. Guthridge. No. 1,393,116; Oct. 11.
Undergarment. B. W. Thayer. No. 1,393,468; Oct. 11.
Unwinding device. W. E. Seed. No. 1,393,705; Oct. 11.
Urea, Producing tetra-substituted. T. J. Albert, Jr. No. 1,393,597; Oct. 11.
Vacua, Method of and means for obtaining high. I. Langmuir. No. 1,393,550; Oct. 11.
Valve attachment. G. R. Davenport. No. 1,393,348; Oct. 11.
Valve, Automatic pressure-regulated air-. G. W. Daggett. No. 1,393,204; Oct. 11.
Valve for water-tanks. O. Linstadt. No. 1,393,384; Oct. 11.
Valve-grinder. N. J. Peterson. No. 1,393,567; Oct. 11.
Valve indicator, Throttle-. L. S. Watres. No. 1,894,904; Oct. 11.
Valve-lifter. C. T. Stubbs. No. 1,393,180; Oct. 11.
Valve, Magnetically-operated. M. W. Llak. No. 1,392,952; Oct. 11.
Valve, Puppet-. C. A. Pfanstiehl. No. 1,393,726; Oct. 11.
Valve, Safety-. A. B. Carhart. No. 1,393,258; Oct. 11.
Valve-spring lifter. L. J. Davies. No. 1,393,669; Oct. 11.
Valve, Vent-. J. Ulrich. No. 1,393,655; Oct. 11.
Vault, Sectional burial-. J. D. Barber. No. 1,393,485; Oct. 11.
Vehicle-body, Convertible. E. L. Hamilton. No. 1,393,440; Oct. 11.
Vehicle brake mechanism. F. Tamberello. No. 1,393,051; Oct. 11.
Vehicle, Child's. R. J. Schneider. No. 1,392,973; Oct. 11.
Vehicle-drive. W. C. Klein. No. 1,393,543; Oct. 11.
Vehicle, Dumping hoist-. H. B. Miller. No. 1,393,151; Oct. 11.
Vehicle-frame suspension. C. Andreason. No. 1,393,589; Oct. 11.
Vehicle headlight, Motor-. F. G. Gauntt. No. 1,393,278; Oct. 11.
Vehicle, Motor parcel-. C. M. Billings. No. 1,393,005; Oct. 11.
Vehicle-spring. F. R. Chandet. No. 1,393,088; Oct. 11.
Vehicle-spring. H. E. Smith. No. 1,392,974; Oct. 11.
Vehicle, Trackless power-driven. A. E. Arons. No. 1,392,904; Oct. 11.
Vehicle-wheel. D. Collins. No. 1,393,504; Oct. 11.
Vehicle-wheel. R. W. Padden. No. 1,393,694; Oct. 11.
Vehicles, Collapsible light and rain shield for. E. E. Butts. No. 1,393,080; Oct. 11.
Vehicles, Combined spring and spring and lever suspension for. C. Drabek. No. 1,393,095; Oct. 11.
Vehicles, Electric system for motor-. L. M. Wolfsohn. No. 1,393,596; Oct. 11.
Vehicles, Radiator for motor-. R. M. Zarucha. No. 1,393,479; Oct. 11.
Vehicles, Rear signal device for. F. C. S. Knowles. No. 1,393,291; Oct. 11.
Vehicles, Spring-mount for. H. B. Bacon. No. 1,393,068; Oct. 11.
Vehicles, Sunshade for. J. P. Humphrey. No. 1,393,130; Oct. 11.
Vending-machine. D. A. McCowan. No. 1,393,147; Oct. 11.
Ventilator: *See*—
Window-ventilator.
Vessel, Navigable. C. P. M. Jack. No. 1,393,587; Oct. 11.
Vise. W. A. Campbell. No. 1,393,088; Oct. 11.
Vise, Picture-frame. A. J. White. No. 1,393,059; Oct. 11.
Voting apparatus, Electrically-operated. A. C. Becker. No. 1,393,074; Oct. 11.
Vulcanizer. G. H. Bunnell and B. E. Titus. No. 1,393,495; Oct. 11.
Vulcanizer. P. Crosley, Jr. No. 1,393,091; Oct. 11.
Wagon-dump. H. E. Surface. No. 1,393,464; Oct. 11.
Washing-machine. J. M. Baker. No. 1,393,659; Oct. 11.
Washing-machines, Automatic reversing device for. P. C. Mosmer. No. 1,392,961; Oct. 11.
Watering-bowl or drinking-fountain, Automatic. W. L. Martin. No. 1,393,303; Oct. 11.
Wax-melting machine, and seal-maker. J. A. Clifton. No. 1,393,263; Oct. 11.
Weeder, Rotary-rod. L. C. Van Patten and J. B. Wolfe. No. 1,393,055; Oct. 11.
Well-boring machine. J. E. Kellar. No. 1,392,945; Oct. 11.
Well-drilling machine. E. L. Dillon. No. 1,393,350; Oct. 11.
Wells, Method and means for facilitating sealing deep. H. C. Pendleton. No. 1,393,311; Oct. 11.
Welt or rand. E. A. Young. No. 1,393,478; Oct. 11.
Welts, Making. E. A. Young. No. 1,393,477; Oct. 11.
Welting. E. A. Young. No. 1,393,476; Oct. 11.
Wheel: *See*—
Ball-bearing string-proof wheel. Traction-wheel.
Pneumatic vehicle-wheel. Tractor-wheel.
Resilient wheel. Vehicle-wheel.
Spring-wheel. Wire-spoked wheel.
Wheel. C. E. Stalley and E. H. Blazer. No. 1,393,711; Oct. 11.
Wheel-fender. A. M. Hudson. No. 1,393,020; Oct. 11.
Wheels, Mud-lug for automobile-. F. W. McGinn. No. 1,393,450; Oct. 11.
Winch. G. Ferland. No. 1,393,436; Oct. 11.
Wind-deflector. G. Glaudel. No. 1,393,682; Oct. 11.
Wind-screen. F. E. Morriss. No. 1,393,239; Oct. 11.
Window-guard. J. E. Baker. No. 1,393,192; Oct. 11.
Window or key lock. B. Leichter. No. 1,393,628; Oct. 11.
Window-screen. B. J. Marriott. No. 1,393,560; Oct. 11.
Window-ventilator. P. Lynn. No. 1,393,556; Oct. 11.
Windshield, Auxiliary. G. Glaudel. No. 1,393,681; Oct. 11.
Wire, Method and apparatus for drawing. R. D. Conner. (Reissue.) No. 15,205; Oct. 11.
Wire-spoked wheel, Detachable. W. H. Heales. No. 1,393,441; Oct. 11.
Wires, Connecting device for. J. W. Fuller. No. 1,393,107; Oct. 11.
Wrench: *See*—
Pliers and end wrench.
Wrench. J. L. Barnes. No. 1,393,070; Oct. 11.
X-ray-film-developing tank, Daylight. J. B. Garrett. No. 1,393,108; Oct. 11.

ALPHABETICAL LIST OF DESIGNS.

Automobile. J. M. Kawanami. No. 59,359. Oct. 11.
Automobile-body. J. E. Allen. No. 59,318; Oct. 11.
Automobile-body. E. Rapattoni. No. 59,373; Oct. 11.
Automobile-buffer. D. L. Benton. No. 59,327; Oct. 11.
Automobile license-plate. J. M. Patterson. No. 59,374; Oct. 11.
Automobile-radiator curtain-hood. C. C. Woodberry. No. 59,398; Oct. 11.
Automobile-steering-wheel lock. C. O. Rush. No. 59,377; Oct. 11.
Automobile-truck body. C. Hermanovich. No. 59,349; Oct. 11.
Automobile window-bracket. C. F. Attwood. No. 59,320; Oct. 11.
Automobiles, Name-plate for. C. Squire. No. 59,386; Oct. 11.
Bolt. H. V. Gill. No. 59,346; Oct. 11.
Bottle-stop remover, Milk-. T. W. Saul. No. 59,378; Oct. 11.
Button, Cuff-. J. H. Oster. No. 59,372; Oct. 11.
Cabinet. A. Kalenborn. No. 59,357; Oct. 11.
Cock, Bath-. M. W. Wuesthoff. No. 59,399; Oct. 11.
Computing apparatus. N. A. Shipherd. No. 59,381; Oct. 17.
Crank-case arm. T. F. Wilson. No. 59,397; Oct. 11.
Disk wheel. W. L. Pfeiffer. No. 59,375; Oct. 11.
Drain-cock-opening tool. J. Benbow and E. Mason. No. 59,326; Oct. 11.
Electric heating elements, Sectional support for. F. W. Moffat. Nos. 59,369–70. Oct. 11.
Fire-extinguisher. F. W. Andrews. No. 59,319; Oct. 11.
Fine-cleaning blade. G. E. Shirley. No. 59,382; Oct. 11.
Folder. F. J. Cooper. No. 59,338; Oct. 11.
Frames, Tubing for automobile-windshield. W. B. McCarthy. No. 59,367; Oct. 11.
Gear-cover. C. Kanev. No. 59,358; Oct. 11.
Golf-ball. P. A. Martin. No. 59,366; Oct. 11.
Gun, Grease-. A. A. Klemz. No. 59,361; Oct. 11.
Loosos, Power-stick clamp for. R. Serafin. No. 59,380; Oct. 11.
Metal wheel, Pressed-. W. C. Hine. No. 59,351; Oct. 11.
Non-skid chains, Anchor-yoke for. W. N. Sleicher. No. 59,384; Oct. 11.
Phonograph-cabinet. E. A. Caviness. Nos. 59,331–2; Oct. 11.
Phonograph-cabinet. E. R. Conley. No. 59,337; Oct. 11.
Plate, Name-. C. H. Lynch. No. 59,365; Oct. 11.
Radiator-cap. J. P. Cavanaugh and S. C. Porter. No. 59,330; Oct. 11.
Radiator-cap. A. L. Litchfield. No. 59,363; Oct. 11.
Radiator-cap. W. Van Guilder. Nos. 59,390–1; Oct. 11.
Radiator-cap. F. G. Whittington. No. 59,395; Oct. 11.
Radiator cap, Automobile-. V. J. Duples. No. 59,341. Oct. 11.
Radiator-cap with temperature-indicator. W. Van Guilder. No. 59,392; Oct. 11.
Razor blade, Safety-. H. J. Gaisman. No. 59,345; Oct. 11.
Rubber-tire casing. C. R. Baker. Nos. 59,321–2; Oct. 11.
Rule, Circular slide-. J. F. Keller and F. J. Badge. No. 59,360; Oct. 11.
Shoe-plate. M. M. West. No. 59,394; Oct. 11.
Sled. L. Tkachuk. No. 59,388; Oct. 11.
Spectacles, Frame for. O. U. Deaba. No. 59,339; Oct. 11.
Speedometer face-plate. J. Berge. No. 59,328; Oct. 11.
Spike. F. C. Bauer, Sr. No. 59,324; Oct. 11.
Spoon, fork, or similar article, Handle for. P. J. Gordon. No. 59,347; Oct. 11.
Spoon, fork, or similar article, Handle for a. F. E. Prétat. No. 59,376; Oct. 11.
Spoon, fork, and similar article, Handle for. I. V. Smith. No. 59,385; Oct. 11.
Spoon, fork, or similar article, Handle for. G. Strohhaker. No. 59,387; Oct. 11.
Spoon, knife, or fork, Handle of a. S. James. Nos. 59,353–4; Oct. 11.
Sun and rain shield. E. C. Hillman. No. 59,350; Oct. 11.
Thermometer. G. S. Clark and P. B. Snyder. No. 59,333; Oct. 11.
Tire-gages, Casing for. A. B. Low. No. 59,364; Oct. 11.
Tool. W. S. Bellows. No. 59,325; Oct. 11.
Tool. J. G. Williams. No. 59,396; Oct. 11.
Tool, Cleaning-. J. H. Hebert. No. 59,348; Oct. 11.
Toy. J. W. Carlson. No. 59,329; Oct. 11.
Toy bow. A. D. Adriance. No. 59,317; Oct. 11.
Toy rocker. C. J. Clouser. No. 59,334; Oct. 11.
Toy, Teetering. G. J. Kallander. No. 59,356; Oct. 11.
Toy, Wheeled. E. B. Ferry. Nos. 59,342–4; Oct. 11.
Toy whistle. J. Bartolowsky. No. 59,322; Oct. 11.
Traction-tread. G. L. Schofield. No. 59,379; Oct. 11.
Vehicle-body. G. J. Weldon. No. 59,393; Oct. 11.
Vehicle fender, Motor-. E. B. Fageol. No. 59,343; Oct. 11.
Vehicle spring suspension. N. Wyeth. No. 59,400; Oct. 11.
Vehicle-tops, Corner-piece for. W. B. Larkins. No. 59,362; Oct. 11.
Velocipede, Child's. W. M. Cobb. Nos. 59,335–6; Oct. 11.
Velocipede, Child's. J. K. Tully. No. 59,389; Oct. 11.
Washboard. C. Sholin. No. 59,383; Oct. 11.
Welding-blowpipe or similar article. E. H. Meden. No. 59,368; Oct. 11.
Wheels, Hub-shell for wire. H. A. House, Jr. No. 59,352; Oct. 11.
Whistle. E. S. De Tamble. No. 59,340; Oct. 11.
Windshield-clip, Blind-holding. H. A. Kaitting. No. 59,355; Oct. 11.
Wrecking-bar. C. Nelson. No. 59,371; Oct. 11.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Advertising novelties. Tolman Print Inc. No. 147,419; Oct. 11.
Apron-dresses. Mayer & Neuburger Company. No. 147,358; Oct. 11.
Automobiles and furniture, Transparent luster and finish for. Nu-Lac Company. No. 147,440; Oct. 11.
Bags, Cloth. Marshall Field & Company. No. 147,439; Oct. 11.
Beds and cribs. Greenpoint Metallic Bed Company. No. 147,323; Oct. 11.
Bloomers, blouses, waists, skirts, &c. Morris & Company. No. 147,372; Oct. 11.
Blouses, Boys'. Oberndorfer Co. No. 147,388; Oct. 11.
Body-vermin destroyer. Raabe & Bowman. No. 147,390; Oct. 11.
Bolts, screws, studs, &c. Atlas Bolt & Screw Co. No. 147,268; Oct. 11.
Booklets and leaflets, Printed. Process Engineers, Incorporated. No. 147,388; Oct. 11.
Books and printed matter, Instruction-. Dollfus Mieg & Cie. Societe Anonyme. Nos. 140,302–3; Oct. 11.
Boots and shoes. Old Colony Shoe Company. No. 147,362; Oct. 11.
Brassieres. M. R. Davis. No. 147,297; Oct. 11.
Buckles, Cut-steel. Kescot Manufacturing Company. No. 147,343; Oct. 11.
Candy. E. M. Strauss. Nos. 147,416–18; Oct. 11.
Carbureters and vaporizers for internal-combustion engines. Vaporetor Corporation. No. 147,425; Oct. 11.
Cartoons, Serial. R. J. Bieger. No. 147,272; Oct. 11.
Chairs, stools, settees, &c., Rustic. Old Hickory Chair Company. No. 147,363; Oct. 11.
Chemical substances, Certain. Grasselli Chemical Company. No. 147,316; Oct. 11.
Churns. Dasey Churn & Manufacturing Company. Nos. 147,298–9; Oct. 11.
Cleaner and polish for white leather shoes. A. E. Perkins Corporation. No. 147,366; Oct. 11.
Cleaning and scouring preparation. Fitzpatrick Bros. No. 147,311; Oct. 11.
Cleanser, Chemical. Moline Chemical Company. No. 147,371; Oct. 11.
Cloth used for polishing metal. A. Werner. No. 147,428; Oct. 11.
Clothing, Certain articles of. Bernhard Ulmann Co. No. 147,421; Oct. 11.
Clothing, Certain articles of. J. Eskind & Sons. No. 147,307; Oct. 11.
Clothing, Certain articles of. Franklin Simon & Co. No. 147,405; Oct. 11.
Clothing, Certain articles of. McCawley and Co. No. 147,352; Oct. 11.
Clothing, Certain articles of. United Turkey Red Company. No. 147,423; Oct. 11.
Clothing, Men's. Baren, Lehrman & Berler. No. 147,271; Oct. 11.
Collars. S. Perlmutter. No. 147,369; Oct. 11.
Cotton-gins and accessories therefor and cotton-presses. Continental Gin Co. No. 147,287; Oct. 11.
Cotton piece goods, Chicopee Mfg. Corporation. Nos. 147,280–1; Oct. 11.
Detergent, Automatic. B. D. Pinkney. No. 147,370; Oct. 11.
Dress goods in the piece, All-wool. W. W. Rycroft & Co. No. 147,398. Oct. 11.
Dresses. H. J. Lisak. No. 147,350; Oct. 11.
Dresses, rompers, and middies, Children's. R. E. Liedike. No. 147,340; Oct. 11.
Dressings for power-transmission belts. Cling-Surface Company. No. 147,283; Oct. 11.
Dyes and dyestuffs. Grasselli Chemical Company. No. 147,317; Oct. 11.
Dyestuffs. Maastrichtsche Zinkwit Maatschappij. Nos. 147,353–4; Oct. 11.
Engines and parts thereof, Internal-combustion. Free-floating Poppet Valve Company. No. 147,314; Oct. 11.
Feed, Dairy. Western Feed Manufacturers. No. 147,430; Oct. 11.
Fire-sprinkler systems, Automatic. Globe Automatic Sprinkler Company. No. 147,315; Oct. 11.
Flour, Wheat-. Stafford Flour Mills Co. No. 147,445. Oct. 11.
Fluid, Antichattering. N. T. Foster. No. 147,313; Oct. 11.
Footwear and leather, Composition for dressing, polishing, and cleaning. J. Fappiano. No. 147,309. Oct. 11.
Forgings and castings, Iron and steel. Chrome Steel Works. No. 147,282; Oct. 11.
Furniture. G. A. Spies. No. 147,410; Oct. 11.
Gages and micrometers, Certain. Greenfield Tap and Die Corporation. No. 147,318; Oct. 11.
Gloves. Josiah H. Donforth & Company. No. 147,296; Oct. 11.
Hair-nets. F. D. Ammidown. No. 147,266; Oct. 11.
Hair-nets. National Commodities Co. No. 147,374; Oct. 11.
Hair-shampoo. A. J. Krank. No. 147,438; Oct. 11.
Hammocks, Couch-. I. E. Palmer Co. Nos. 147,365–6; Oct. 11.
Hats and caps for men and boys. T. W. Stevenson Company. No. 147,414; Oct. 11.
Hats, Ladies'. Kays Millinery Company. No. 147,342. Oct. 11.
Heel and arch cushions for shoes. G. A. Stetson. No. 147,413; Oct. 11.
Hosiery. Art Knit Hosiery Company. No. 147,267; Oct. 11.
Hosiery. F. Mann. No. 147,355; Oct. 11.
Hosiery and underwear. Munsingwear Corporation. No. 147,373; Oct. 11.
Hosiery, underwear, and knitted sweaters. Brummel & Mendelsohn. Nos. 147,275–7; Oct. 11.
Incubators and brooders. American Incubator Manufacturing Co. No. 147,256; Oct. 11.
Index, record, and filing systems, &c., Card-. American Kardex Company. Nos. 147,257–60; Oct. 11.
Insecticides and disinfectants. R. A. Sims. No. 147,406; Oct. 11.
Iron, of steel, and of alloys of iron, Certain products of. American Rolling Mill Company. No. 147,265; Oct. 11.
Journal or paper, Trade. Ott-Heiskell Hardware Co. No. 147,364; Oct. 11.
Knit caps and toques. B. Oestreicher. No. 147,361; Oct. 11.
Leather-dressings. Burns Mfg. Co. No. 147,278; Oct. 11.
Lenses, Ophthalmic. A. J. Cross. No. 147,294; Oct. 11.
Lotions, Toilet. Liquid Velvet Company. No. 147,351; Oct. 11.
Lubricating-jelly, Antiseptic. Sharp & Dohme. No. 147,403; Oct. 11.
Manual or publication. Commercial Newspaper Company. No. 147,285; Oct. 11.
Maps, charts, and printed books. Porter Chemical Company. No. 147,385; Oct. 11.
Mattresses, pillows, and box-springs. International Bedding Co. Nos. 147,334–40; Oct. 11.
Medicinal preparation for syphilis, &c. Dr. William E. Craig. No. 147,290; Oct. 11.
Meters and instruments of precision, Certain. Metropolitan-Vickers Electrical Co. No. 147,384; Oct. 11.
Middy-blouses. Crippen & Reid. No. 147,293; Oct .11.
Middy-blouses. New Freedom Manufacturing Company. No. 147,375; Oct. 11.
Milk, Sweetened condensed. American Milk Products Corporation. No. 147,262; Oct. 11.
Milk, Sweetened condensed. American Milk Products Corporation. No. 147,264; Oct. 11.
Milk, Unsweetened evaporated. American Milk Products Corporation. No. 147,261; Oct. 11.
Milk, Unsweetened evaporated. American Milk Products Corporation. No. 147,263; Oct. 11.
Mordants for textiles. New York Quebracho Extract Company. No. 147,380; Oct. 11.
Motors actuated by the power of the tide. Universal Tide Power Company. No. 147,424; Oct. 11.
Needlework, Certain instruction books for art-. Bernhard Ulmann Co. No. 147,422; Oct. 11.
Newspapers. Corn Belt Farm Dailies. No. 147,288; Oct. 11.
Nickel and nickel-alloy clad steel sheets. H. Boker & Co. No. 147,274; Oct. 11.
Nom de plume used on newspaper articles. David Lawrence Incorporated. Nos. 147,347–8; Oct. 11.
Nom de plume used on newspaper articles. Star Company. No. 147,412; Oct. 11.
Notions, Certain. Waldes & Co. No. 147,427; Oct. 11.
Oils and greases and gasolene, Lubricating. Pennant Oil & Grease Co. No. 147,367; Oct. 11.
Oils, Floor-. Continental Mfg. Co. No. 147,435; Oct. 11.
Ointment for inflammatory swellings of muscles or joints. Glandex Co. No. 147,437; Oct. 11.
Oleomargarin. Ed. S. Vail Butterine Co. No. 147,446; Oct. 11.
Paint. L. Sonneborn Sons. No. 147,444; Oct. 11.
Periodical, Monthly. International Correspondence Schools. No. 741,341; Oct. 11.
Petticoats, skirts, and bloomers. W. H. Rogers Co. Nos. 147,393–4; Oct. 11.
Photographic dry plates. G. Cramer Dry Plate Company. No. 147,291; Oct. 11.
Photographs and illustrations. E. M. Rudd. No. 147,397; Oct. 11.
Photographs, photographic prints, and commercial photographs. Heiser Company. No. 147,328; Oct. 11.
Pie filling, Powdered lemon-. W. H. Simonson. No. 147,43; Oct. 11.
Polish for pianos and automobiles. Dresso Polish Co. No. 147,305; Oct. 11.
Polishing materials. O. M. Drake. No. 147,304; Oct. 11.
Polishing materials. W. J. Reuss. Nos. 147,441–2; Oct. 11.

Powders, toilet waters, perfumes, rouges, sachets, Face and talcum. K. D. Chowdhury. No. 147,436; Oct. 11.
Preparation for cleaning, shining, and polishing shoes, &c. Herriott Polish Co. No. 147,330; Oct. 11.
Preparation to prevent deposit of moisture on glass. G. W. Conard & Company. No. 147,286; Oct. 11.
Publication issued about semi-annually. Bessie Dansey, Inc. No. 147,295; Oct. 11.
Publication, Weekly. W. H. Hendricks. No. 147,329; Oct. 11.
Puttees of leather and canvas. I. Salmonson. No. 147,399; Oct. 11.
Raincoats. C. B. Shane Co. No. 147,402; Oct. 11.
Raincoats and men's overcoats and suits. Western Textile Co. No. 147,431; Oct. 11.
Razor-blades, safety-razors, safety-razor handles. C. L. Mera. No. 147,359; Oct. 11.
Razors, scissors, and sprayers. San Antonio Drug Co. No. 147,400; Oct. 11.
Rivets. H. A. Wilson Company. No. 147,434; Oct. 11.
Rubber boots and shoes. Hood Rubber Company. No. 147,332; Oct. 11.
Rubber footwear. Repair-patch of molded and sheet rubber for. Robertson & Sons Shoe Repairers. No. 147,391; Oct. 11.
Rug-cleaner. Silvey and Golliday. No. 147,404; Oct. 11.
Salve. U. B. Southwick. No. 147,409; Oct. 11.
Salve, Pile-. J. E. Hayhurst. No. 147,327; Oct. 11.
Scarfs, stockings, socks, sweaters. F. C. Huyck & Sons. No. 147,333; Oct. 11.
Sheeting, sheets, and pillow-cases. Marshall Field & Company. No. 147,356; Oct. 11.
Shirts, blouses, washsuits, &c., Boys'. Kuh Brothers. No. 147,345; Oct. 11.
Shoe-ink. Chas. M. Hatcher Mfg. Co. No. 147,326; Oct. 11.
Shoe machinery, Certain. Victor Shoe Machinery Company. No. 147,426; Oct. 11.
Shoes. Holtzers Company. No. 147,331; Oct. 11.
Shoes, Infants' and children's. W. Y. Miller. No. 147,360; Oct. 11.
Shoes, Leather. H. E. Adams. No. 147,255; Oct. 11.
Shoes, Men's and boys' leather. Hamilton-Brown Shoe Company. No. 147,324; Oct. 11.
Silks and silk fabrics in the piece. Denville Silk Co. No. 147,300; Oct. 11.
Silver-polish. Mrs. F. Stewart. No. 147,415; Oct. 11.
Soap. Elkonite Soap Co. No. 147,306; Oct. 11.
Soap. Fitzpatrick Bros. No. 147,312; Oct. 11.
Soap. A. A. Wiggins. No. 147,432; Oct. 11.
Soap and preparation in the nature of soap. Kwix Company. No. 147,348; Oct. 11.
Soap and soap pastes. J. S. Purdy. No. 147,389; Oct. 11.
Soap, Toilet. Rolling Tooth Brush Company. No. 147,395; Oct. 11.
Soaps. Barclay & Co. No. 147,270; Oct. 11.
Soaps. Colgate & Company. No. 147,284; Oct. 11.
Soaps. Alfred H. Smith Company. No. 147,408; Oct. 11.
Soft-metal grinding compound. J. O. Werner. No. 147,429; Oct. 11.
Spaghetti. G. G. Cornwell & Son. No. 147,289; Oct. 11.
Spectacles, eyeglasses, and ophthalmic mountings and component parts of same. Bishop Company. No. 147,273; Oct. 11.
Sphygmomanometers, thermometers, hydrometers, &c. Precision Thermometer and Instrument Company. No. 147,398; Oct. 11.
Suits and overcoats, Men's. Harris, Richman & Goldstein. No. 147,255; Oct. 11.
Suits, coats, and dresses, Misses' and ladies'. Joseph Rodgers Inc. No. 147,392; Oct. 11.
Suits, overcoats, and trousers. I. Spiewak & Sons. No. 147,411; Oct. 11.
Sweaters, bathing-suits, dresses, and skirts. May Knitting Co. No. 147,357; Oct. 11.
Swing and hammock-couch, Combination porch-. Sleep-Or-Swing Company. No. 147,407; Oct. 11.
Tables, chairs, and desks. House. Prestoy Mfg. Co. No. 147,387; Oct. 11.
Tablets, Laundry-. T. D. Sharman. No. 147,301; Oct. 11.
Tanning extracts. New York Quebracho Extract Company. Nos. 147,277–9; Oct. 11.
Tanning extracts. New York Quebracho Extract Company. No. 147,281; Oct. 11.
Teeth, Powder preparation for cleaning artificial. Sant Chemical Co. No. 147,401; Oct. 11.
Thermometers, Clinical. E. Kessling Thermometer Co. No. 147,344; Oct. 11.
Tire-patches. Conrad Wilkey & Co. No. 147,433; Oct. 11.
Tires, Certain outer casings, and inner tubes for. New South Rubber Company. No. 147,276; Oct. 11.
Tonic for building up and purifying the system. L. Rosenfield. No. 147,396; Oct. 11.
Tools and parts of machinery, Certain. Greenfield Tap and Die Corporation. Nos. 147,319–22; Oct. 11.
Tractors. Baines Engineering Company. No. 147,269; Oct. 11.
Underwaists, union-suits, and sleeping-garments. E-Z Waist Company. No. 147,308; Oct. 11.
Underwear of knitted, netted, and textile fabrics. J. A. Firsching. No. 147,310; Oct. 11.
Waterproof coats. A. J. Tower Company. No. 147,420; Oct. 11.
Woven, knitted, netted, textile, and pile fabrics in the piece. Cheney Brothers. No. 147,279; Oct. 11.
Wrenches. Niagara Manufacturing Company. No. 147,382; Oct. 11.
X-ray dry plates. G. Cramer Dry Plate Company. No. 147,292; Oct. 11.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Adhesive preparation, Liquid. F. E. Housh. No. 152,204; Oct. 11.
Albums. F. S. Betts. No. 147,657; Oct. 11.
Aldehyde, methyl alcohol and ethyl alcohol. Agglomerates of solid. Elektrizitätswerk Lonza. No. 144,805; Oct. 11.
Ash-trays, bonbon and cake baskets, chafing-dishes, &c. Suckling Limited. No. 146,783; Oct. 11.
Automobile-spotlights, Controlling device for. H. J. Segur. No. 145,534; Oct. 11.
Automobiles. Wizard Automobile Company. No. 132,457; Oct. 11.
Awnings, tents, flags, tarpaulins. W. B. Starkloff. No. 150,490; Oct. 11.
Bags, suitcases, trunks, &c., Traveling-. S. Sherman. No. 144,682; Oct. 11.
Balm used for the gums in the treatment of pyorrhea. J. H. Mowery. No. 149,707; Oct. 11.
Bats, Baseball-. Hillerich & Bradsby Co. No. 150,107; Oct. 11.
Bats, Baseball-. Hilton Collins Company. Nos. 141,572–3; Oct. 11.
Battery clips, Storage-. Reliable Manufacturing Co. No. 123,498; Oct. 11.
Bedspreads. Marshall Field & Company. No. 146,313; Oct. 11.
Beverage and extracts and syrups for making same. C. L. Beardsley. No. 146,527; Oct. 11.
Beverage, Combination of malt extract, &c., used in making. L. L. Balch. No. 152,229; Oct. 11.
Beverages and syrups for making same, Non-alcoholic. E. Diehl. No. 145,771; Oct. 11.
Beverages, Non-alcoholic. A. Kuhnlein. No. 145,690; Oct. 11.
Beverages, Non-alcoholic. Nevin-Frank Company. No. 142,850; Oct. 11.
Biscuits and crackers. Ekstrom & Linae Baking Co. No. 144,711; Oct. 11.
Boxes and cartons. E. J. Trum, Inc. No. 146,940; Oct. 11.
Boxes, Bottle and packing. Republic Box Co. No. 146,595; Oct. 12.
Bread. G. Barthelmie. No. 147,705; Oct. 11.
Bulletins, Series of. L. D. Rogers. No. 150,031; Oct. 11.
Cakes, candies, fruit preserves. Remar Company. No. 137,334; Oct. 11.
Candies and chocolates. Liberty Tree Candy Company. No. 143,696; Oct. 11.
Candy. D. Goldenberg. No. 147,238; Oct. 11.
Candy, Manufacturing Company of America. No. 147,938; Oct. 11.
Candy mints. Shelby Supply & Manufacturing Company. No. 149,298; Oct. 11.
Candles. Eagle Candle Co. No. 149,217; Oct. 11.
Canned fruits, fruit butter, olive-oil, &c. California Growers Association. No. 148,718; Oct. 11.
Canned goods, coffee, jams, &c. H. Kellogg & Sons. No. 140,756; Oct. 11.
Cards, Playing-. United States Playing Card Company. Nos. 150,160–2; Oct. 11.
Cards, Playing-. United States Playing Card Company. No. 150,166; Oct. 11.
Cards, Playing-. United States Playing Card Company. Nos. 150,168–9; Oct. 11.
Cements, Adhesive. Sidney Loog & Sons. No. 150,488; Oct. 11.
Cereals, pancake-flour, &., Breakfast. Patent Cereals Company. No. 145,473; Oct. 11.
Chairs. Frank Bieder & Sons. No. 148,659; Oct. 11.
Champagne-wines. Werle et Compagnie. No. 148,003; Oct. 11.
Champagne-wines. Werle et Compagnie. No. 148,005; Oct. 11.
Cheese and butter. Marré y Cia. No. 143,087; Oct. 11.
Chimney-cowls, Ventilating. F. J. Krueger. No. 149,194; Oct. 11.
Cigarettes. Pinkus Brothers. No. 145,705; Oct. 11.
Clocks and clocks and watches of all kinds and parts thereof, Electric. Scintilla. No. 136,041; Oct. 11.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Clothestines. Masonoit Manufacturing Company. No. 151,325; Oct. 11.
Clothestines. Tribble Cordage Mills. Nos. 150,378–0; Oct. 11.
Coal. C. L. Ryley Coal Company. No. 145,593; Oct. 11.
Coats, pants, and vests, ladies' suits, &c., Men's and boys'. Lamm Brothers. Nos. 147,246–9; Oct. 11.
Coffee. American Universal Coffee Company. Nos. 149,259–60; Oct. 11.
Coffee. Fasseas & Onofrio. No. 147,018; Oct. 11.
Coffee. Martin L. Hall Company. No. 144,911; Oct. 11.
Corsets. Crown Corset Company. No. 147,187; Oct. 11.
Cotton piece goods. Boston Manufacturing Company, 1901. No. 152,117; Oct. 11.
Cotton, silk, &c., piece goods. N. Erlanger, Blumgart & Co. No. 151,989; Oct. 11.
Crackers. New England Biscuit Company. No. 138,824; Oct. 11.
Cream, Face-. N. Hartofelis. No. 147,034; Oct. 11.
Detergents, Soluble chemical compounds for use as. Electric Smelting & Aluminum Co. No. 148,984; Oct. 11.
Display and art panels, show-cards, &c., Printed. Textile Publishing Company. No. 146,469; Oct. 11.
Doll-forms, stuffed toy figures, &c. John Martin's House, Inc. No. 149,645; Oct. 11.
Electric-lighting fixtures and lamps, electroliers. Caldwell Electric Corporation. No. 118,257; Oct. 11.
Electric-lighting plants, Unitary. S. W. Merritt & Co. No. 129,896; Oct. 11.
Envelops, Merchandise. A. Herz. No. 149,804; Oct. 11.
Expectorant, phenaspirin compound, and tabacetyl, Syrup. Mutual Pharmacal Company. No. 146,382; Oct. 11.
Explosive substances, Projectiles, ammunition. Tetralin Gesellschaft mit beschränkter Haftung. No. 142,045; Oct. 11.
Fabrics in the piece, Pile. Sidney Blumenthal & Co. No. 151,750; Oct. 11.
Fabrics, Textile. Banner Silk Knitting Mills. No. 151,446; Oct. 11.
Fire-maker. M. H. Recktenwalt. No. 148,349; Oct. 11.
Floor-coverings. Cott-A-Lap Company. No. 151,909; Oct. 11.
Flour, Wheat-. Colorado Milling & Elevator Company. No. 148,974; Oct. 11.
Flour, Wheat-. Tri-State Milling Co. No. 129,759; Oct. 11.
Flour, Wheat-. Wallace Milling Company. No. 147,069; Oct. 11.
Food, Malt. Bonovin, Limited. No. 149,167; Oct. 11.
Foot-pads. Pep-Step Corp. No. 149,268; Oct. 11.
Fruits and fresh vegetables, Fresh deciduous. Westfall-Lane Company. No. 135,679; Oct. 11.
Fruits, berries, vegetables, canned goods, &c. Oregon Growers Coöperative Assn. No. 146,583; Oct. 11.
Fruits, Fresh citrus. Chester C. Fosgate Co. No. 147,775; Oct. 11.
Fruits, Fresh citrus. S. M. Stephens. No. 148,404; Oct. 11.
Fruits, fruit butter and jam, Dried and canned. California Prune and Apricot Growers. No. 146,874; Oct. 11.
Fuel for internal-combustion engines. Redmond & Bramley Oil Co. No. 149,777; Oct. 11.
Game-board. L. Y. Kinleyside. No. 145,219; Oct. 11.
Game-boards. P. H. Levy. No. 150,454; Oct. 11.
Game-boards. Roll-O-Racer Company. No. 145,796; Oct. 11.
Games, Box parlor. Irvin-Smith Company. No. 150,863; Oct. 11.
Gasolene and fuel energizer. Refino Company. Nos. 149,775–6; Oct. 11.
Gasolene, lubricating oils, &c. North End Auto Supply Company. No. 143,698; Oct. 11.
Gloves. Wimelbacher & Rice. No. 147,175; Oct. 11.
Golf-stroke-guiding device. Swingrite Co. No. 151,067; Oct. 11.
Greases and other lubricating oils and greases, Axle-. Snow Flake Axle Grease Company. No. 143,715; Oct. 11.
Greases, magneto-oil, &c., Gear, cup, and graphite. R. M. Hollingshead Co. No. 149,137; Oct. 11.
Greases, Mineral. Panama Lubricants Company. No. 151,373; Oct. 11.
Hair-nets. N. B. Cohen. No. 152,236; Oct. 11.
Hair-nets. M. Kaufman. No. 152,173; Oct. 11.
Hairpins, Wire. Samstag & Hilder Bros. No. 149,525; Oct. 11.
Hoof pads. Federal Rubber Company. No. 138,712; Oct. 11.
Horses, Knockdown children's. Morton E. Converse and Son Co. No. 151,783; Oct. 11.
Hosiery. Cadet Knitting Company. No. 147,281; Oct. 11.
Hosiery. Cadet Knitting Company. No. 147,339; Oct. 11.
Hosiery. Daisy Whitehead Knitting Co. No. 133,456; Oct. 11.
Knives, forks, spoons, napkin-rings, baby-pins, &c. Franklin Silver Plate Company. No. 146,702; Oct. 11.
Lamps, Portable electric. Vimco Mfg. Company. No. 140,697; Oct. 11.
Lard substitute. O. Wynne. No. 144,212; Oct. 11.
Leather. Hudson Leather Company. No. 150,068; Oct. 11.
Leather. Monarch Leather Company. No. 151,805; Oct. 11.
Leggings and boots. Safety Equipment Service Company. No. 134,793; Oct. 11.
Magazine, Monthly. C. E. Miller. No. 144,780; Oct. 11.
Mail-sacks, coal-bags, &c. Wm. E. Hooper & Sons Co. No. 147,721; Oct. 11.
Malt extracts, Concentrated liquid. Malt-Diatase Company. No. 151,633; Oct. 11.
Malt extracts, Concentrated liquid. Malt-Diatase Company. No. 152,434; Oct. 11.
Malt syrup, extracts, and beverages. Gerhard Lang Brewery. No. 152,805; Oct. 11.
Mayonnaise and Russian dressings, olive mayonnaise. J. S. McGowan. No. 148,232; Oct. 11.
Medicinal preparation for stomach and bowel disorders. J. R. Brady. No. 142,772; Oct. 11.
Medicine. Frederick Stearns & Company. No. 149,861; Oct. 11.
Metal, nickel, and silver polishes, &c. R. M. Hollingshead Co. No. 149,134; Oct. 11.
Milk, cheese, eggs. Behrens Dairy Products Company. No. 140,633; Oct. 11.
Mousetraps. Katchall Mouse Trap Manufacturing Co. No. 144,816; Oct. 11.
Musical compositions, Printed copies of. United Phonograph Stores. No. 150,786; Oct. 11.
Oil-cans. Anthes Force Oiler Company. No. 150,566; Oct. 11.
Oils and greases, Lubricating. C. H. Clark Oil Company. No. 132,849; Oct. 11.
Oils and greases, Lubricating. N. I. Malmstrom. No. 144,346; Oct. 11.
Oils and greases, Lubricating. Service Oil Refining Company. No. 137,858; Oct. 11.
Oils, Lubricating-. Penn Petroleum and Supply Company. No. 151,475; Oct. 11.
Ointment for treating the scalp. A. G. Gomillion. No. 149,586; Oct. 11.
Optical cases or conveyers. S. H. Robinson. No. 135,453; Oct. 11.
Outing outfits. H. J. Grey. No. 149,395; Oct. 11.
Paint coating for exterior surfaces. Truscon Steel Company. No. 139,761; Oct. 11.
Paint enamels, varnishes, paints. Wadsworth, Howland & Co. No. 137,795; Oct. 11.
Paints. Goheen Corporation. No. 148,995; Oct. 11.
Paints. H. H. Hirsch. No. 142,999; Oct. 11.
Paints. J. W. Howland. No. 150,011; Oct. 11.
Paints, varnishes, &c. Pittsburgh Plate Glass Company. No. 149,023; Oct. 11.
Palliative for throat diseases and malignant growths in throat. S. Sloma. No. 149,823; Oct. 11.
Paper. H. Edmunds. No. 147,017; Oct. 11.
Paper bags. F. D. Croce & Co. No. 130,720; Oct. 11.
Paper, Bond-. Hamilton Card & Paper House Inc. No. 148,276; Oct. 11.
Paper, Bond-. Peerless Paper Company. No. 137,709; Oct. 11.
Paper drinking-cups. Sherman Envelope Company. No. 145,594; Oct. 11.
Paper, Gummed. Ideal Coated Paper Company. No. 134,780; Oct. 11.
Paper, Gummed. Ideal Coated Paper Company. No. 143,608; Oct. 11.
Paper, Safety-. Forman Bassett Company. No. 147,099; Oct. 11.
Paper, Toilet-. Oswego River Paper Mills. No. 108,845; Oct. 11.
Paper, Toilet-. Scott Paper Company. No. 116,392. Oct. 11.
Paper, Wrapping, blotting, bond, writing, and tissue. Albemarle Paper Mfg. Co. No. 148,104; Oct. 11.
Paper, Writing and printing. Brown Company. No. 146,294; Oct. 11.
Paper, Writing and printing. Peerless Paper Company. No. 137,708; Oct. 11.
Perfumes, sachets, &c. John Wanamaker, New York. No. 149,663; Oct. 11.
Perfumes, sachets, &c. John Wanamaker, New York. No. 149,665; Oct. 11.
Periodical, Annual. Field & Stream Publishing Company. No. 151,080; Oct. 11.
Pharmaceutical preparation. Howes' Laboratories. No. 147,610; Oct. 11.
Pocketbooks. B. Stember. No. 143,840; Oct. 11.
Powder-puffs. I. J. Tetlow. Nos. 143,966–7; Oct. 11.
Preparation for treatment of nervousness, &c. W. A. Hooks. No. 149,751; Oct. 11.
Preparation for treatment of the scalp. Bloch Chemical Company. No. 144,706; Oct. 11.
Propellers, carts, carriages, omnibuses, &c., Ships'. Hadfields Limited. No. 136,259; Oct. 11.
Publication, Monthly. Central Bond & Mortgage Co. No. 150,511; Oct. 11.
Publication, Monthly magazine. Magazine Corporation. No. 150,459; Oct. 11.
Pyroxylin sheet material, rods, and tubing. American Celutex Corporation. No. 150,385; Oct. 11.
Rope, cord, twine, &c. Wm. E. Hooper & Sons Co. No. 147,722; Oct. 11.
Ropes, cord, twine. California Cotton Mills Company. No. 150,658; Oct. 11.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Rubber baby-pants and waterproof house-aprons. J. J. Beyerle Mfg. Co. No. 143,585; Oct. 11.
Rubber mats. B. F. Goodrich Company. No. 137,470; Oct. 11.
Rust-retarding or cleansing compositions and grease for ferrous materials. H. C. Wilson. No. 131,936; Oct. 11.
Salve, Corn-. H. D. Burnett. No. 149,273; Oct. 11.
Shampoo. L. O. Nodale. No. 149,717; Oct. 11.
Shampoo, Henna. East and West Trading Corperation. No. 149,991; Oct. 11.
Sheets, tubes, and rods composed of a mixture of nitrocellulose and camphor. Iwal & Co. of New York. No. 147,622; Oct. 11.
Shoes. L. Mark. No. 146,885; Oct. 11.
Shoes, Children's. Brown Shoe Company. No. 147,395; Oct. 11.
Silk and silk mixture fabrics. Wechsler Barber Silk Co. No. 151,136; Oct. 11.
Silk piece goods. Haas Brothers Fabrics Corporation. No. 152,254; Oct. 11.
Skates, Ice-. Shapleigh Hardware Company. No. 143,460; Oct. 11.
Soap. H. G. Dahl. No. 147,016; Oct. 11.
Soaps. Soap Manufacturers Sales Company. No. 138,192; Oct. 11.
Spark-plugs for internal-combustion engines. Cloud Accessories Corporation. No. 135,098; Oct. 11.
Stereotyping and electroplating, Matrix or dry mat used in. W. B. Wheeler Corporation. No. 149,496; Oct. 11.
Suits, Children's one-piece. Elk Brand Shirt & Overall Co. No. 146,531; Oct. 11.
Syrup for the production of a cereal malt beverage. Pabst Brewing Company. No. 119,986; Oct. 11.
Syrup for use in making home beverages. F. H. Haggerty and Son. No. 138,440; Oct. 11.
Syrup, Table-. American Sugar Products Corporation. No. 147,177; Oct. 11.
Tablets, ointment, liniment, &c., Antiseptic-. A. G. Browning. No. 149,128; Oct. 11.
Tents. Ames Harris Neville Co. No. 149,793; Oct. 11.
Tires and tubes, Rubber. Dayton Rubber Manufacturing Co. No. 149,174; Oct. 11.
Toilet preparations. Madam C. J. Walker Manufacturing Co. No. 140,764; Oct. 11.
Toy animals, balloons, &c. H. R. Colwell. No. 146,794; Oct. 11.
Toy balloons. Richard D. Bakrow & Son. No. 143,154; Oct. 11.
Toy furniture, vehicles, &c. Rogers Construction Company. No. 143,709; Oct. 11.
Toy, Mechanical. Unique Art Manufacturing Co. No. 149,493; Oct. 11.
Toy pistols and rifles. Edwards Manufacturing Co. No. 152,004; Oct. 11.
Toys, Art. Wadart Company. No. 140,554; Oct. 11.
Toys known as scooters, Wheeled. L. J. Picha. No. 140,960; Oct. 11.
Transparent covers, &c., for use in record, &c., devices and the transparent sheets from which same are made. American Kardex Company. No. 133,242; Oct. 11.
Tray for ice-cream cones. J. W. Hoodwin Company. No. 150,194; Oct. 11.
Trucks, Motor-. Power Truck and Tractor Company. No. 143,804; Oct. 11.
Trunks. Abramovitz & Schwartz. No. 147,494; Oct. 11.
Trunks. Butterfield Trunk Co. No. 144,604; Oct. 11.
Tulles, muslins, crepes, &c. "Dynamo" Tulle Importing Co. No. 147,555; Oct. 11.
Twines. California Cotton Mills Company. No. 151,257; Oct. 11.
Typewriter-ribbons and carbon-paper. Chas. A. Foyer & Company. No. 140,489; Oct. 11.
Underwaists, Children's. W. T. Grant Co. No. 146,906; Oct. 11.
Union-suits, Boys'. Cartersville Mills. No. 146,816; Oct. 11.
Vegetables. I. H. New. No. 146,027; Oct. 11.
Watches, clocks, and parts thereof. Meyer & Stödell, Societe Anonyme. No. 142,024; Oct. 11.
Watches, watchcases, and watch-movements. B. Gutter & Sons. No. 139,524; Oct. 11.
Watches, watchcases, and watch-movements. B. Gutter & Sons. No. 139,526; Oct. 11.
Watches, watchcases, and watch-movements. B. Gutter & Sons. No. 139,528; Oct. 11.
Well-drilling and milling tools. Williams-Koen-McManis Co. No. 139,412; Oct. 11.
Wire rope. Macwhyte Company. No. 141,005; Oct. 11.
Wool and hair. A. O. Trostel. No. 144,754; Oct. 11.
Woolen piece goods. S. Stein & Co. No. 152,186; Oct. 11.
Yarns and threads. Cherokee Spinning Co. No. 120,788; Oct. 11.
Yeast and yeast mixtures, Compressed. Fleischmann Company. No. 147,822; Oct. 11.

CLASSIFICATION OF PATENTS

ISSUED OCTOBER 11, 1921.

NOTE.—First number—class, second number—subclass, third number—patent number.

1— 6: 1,393,886
56: 1,393,451
2— 75: 1,393,609
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99: 1,393,208
105: 1,393,510
106: 1,393,600
108: 1,393,205
109: 1,393,211
1,393,490
1,393,542
1,393,564
75— 1: 1,393,388
17: 1,393,426
77— 73.5: 1,392,900
78— 29: 1,393,073
1,393,501
81— 3: 1,393,365
1,393,606
81— 3.2: 1,393,010
33: 1,393,053
53: 1,393,267
111: 1,393,670
156: 1,393,028
169: 1,393,524
192: 1,393,156
82— 2: 1,393,115
1,393,205
1,393,206
21: 1,393,131
83— 9: 1,393,334
46: 1,393,092
64: 1,393,613
91: 1,393,393
84— 69: 1,393,123
488: 1,393,400
85— 1.5: 1,393,351
16: 1,392,950
32: 1,393,459
36.5: 1,393,614
87— 9: 1,393,223
88— 16: 1,393,411
17: 1,392,941
19: 1,393,148
42: 1,393,340
55: 1,393,152
89— 4: 1,393,253
16: 1,393,057
91— 2: 1,393,401
8: 1,393,460
14.5: 1,393,002
50: 1,393,505
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68: 1,393,280
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92— 11: 1,393,241
93— 36: 1,393,122
55: 1,392,909
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93: 1,392,972
94— 13: 1,393,699
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95— 66: 1,393,109
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99— 1: 1,393,282
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59: 1,392,925
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104: 1,393,334
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140— 72: 1,393,178
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143— 81: 1,392,999
90: 1,393,128
144— 293: 1,393,699
295: 1,393,715
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145— 111: 1,393,898
146— 5: 1,393,227
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21: 1,392,988
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18: 1,393,251
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43: 1,393,894
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177— 320: 1,393,695
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53: 1,392,910
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33: 1,392,973
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219— 19: 1,393,373
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234— 54: 1,393,410
57: 1,393,542
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59: 1,393,157
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25: 1,393,161
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288— 7: 1,393,685
287— 1: 1,393,110
16: 1,393,688
19: 1,393,080
22: 1,392,974
36: 1,393,618
45: 1,393,140
46: 1,393,660
54: 1,393,128
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273: 1,393,963
274— 2: 1,393,470
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278— 51: 1,393,457
279— 6: 1,393,388
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295— 28: 1,393,955
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96: 1,393,682
99: 1,393,220
100: 1,393,690
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20: 1,393,080
32: 1,393,202
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53: 1,393,711
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308— 41: 1,393,653
305— 9: 1,393,157
13: 1,393,707
1,393,708
1,393,709
306— 17: 1,393,399

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 18TH DAY OF OCTOBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abbott, Charles C., Pittsfield, Mass., assignor to General Electric Company. Electric-heating unit. No. 1,393,732; Oct. 18.

Aberle, Edward, Nutley, N. J. Folding box. No. 1,394,134; Oct. 18.

Abrasive Machine Tool Co. (See Lant, George W., assignor.)

Acme Card System Company. (See Soans, Cyril A., assignor.)

Adair Machine Company. (See Adair, M., and Snyder, assignors.)

Adair, Montague, Brooklyn, and W. P. Snyder, New York, assignors to Adair Machine Company, Brooklyn, N. Y. Machine for hemstitching fabrics. No. 1,394,244; Oct. 18.

Adell, John A., assignor to The Adell Manufacturing Company, Orange, Mass. Jack for automobiles and the like. No. 1,394,263; Oct. 18.

Adell Manufacturing Company, The. (See Adell, John A., assignor.)

Adler, Charles, Jr., Baltimore, Md. Roadway-crossing signal. No. 1,394,264; Oct. 18.

Albonesi, Charles, Dumont, N. J. Sash-lock construction. No. 1,394,513; Oct. 18.

Alden, Beth F., San Francisco, and H. C. Eddy, Los Angeles, Calif.; said Eddy assignor to Petroleum Rectifying Company of California. Process and apparatus for refining liquid mixtures. No. 1,394,462; Oct. 18.

Alger, Harley C., Oak Park, Ill. Liquid-meter. No. 1,393,931; Oct. 18.

Allen, Andrew J., La Grange, Ill. Basket. No. 1,394,463; Oct. 18.

Allen, Charles H., Chicago, Ill. Headlight. No. 1,393,877; Oct. 18.

Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Buttonhole-sewing machine. No. 1,394,135; Oct. 18.

Allis-Chalmers Manufacturing Company. (See Newhouse, Ray C., assignor.)

Alsatian Machine Company. (See Tunstall, Harry, assignor.)

American Assembling Machine Company. (See Juengst, Charles A., assignor.)

American Balsa Company. (See Lundin, Andreas P., assignor.)

American Can Company. (See Nowack, Charles H., assignor.)

American Can Company. (See Rogers, Arthur R., assignor.)

American Metal Company, The. (See Carstens, Alexander B., assignor.)

American Optical Company. (See Tillyer, Edgar D., assignor.)

American Steel Foundries. (See Lamont, John A., assignor.)

American Telephone and Telegraph Company. (See Blackwell, Otto B., assignor.)

American Telephone and Telegraph Company. (See Demarest, Charles S., assignor.)

American Thermo-Ware Company. (See Marshutz, Herbert S., assignor.)

American Thermophone Company. (See Van Doorn, Anthonius M., assignor.)

American Warp Drawing Machine Company. (See Lea, Charles, assignor.)

Anderson-Barngrover Mfg. Co. (See Thompson, Albert R., assignor.)

Anderson, Robert W., Liverpool, England. Weather screen or hood for motor-cars. No. 1,393,734; Oct. 18.

André, Achille, Ixelles, Brussels, Belgium. Scaffolding. No. 1,393,932; Oct. 18.

Andrews, James A., and J. W. Herbert, Biddeford, Me. Pick-stick check. No. 1,394,265; Oct. 18.

Angier, Edward H., Framingham, Mass. Wrapping or packaging machine. No. 1,394,266; Oct. 18.

Angle, Lloyd A. (See Stanforth, R., and Angle.)

Anselmi, Carlos, and M. Viturro, Buenos Aires, Argentina. Apparatus for projection of motion-pictures. No. 1,393,735; Oct. 18.

Apple, Vincent G., Dayton, Ohio. Building commutators. No. 1,393,878; Oct. 18.

Appleby, Thomas. (See Knoll, Lloyd M., assignor.)

Armington, Arthur A., *et al.*, executors. (See Wardwell, Simon W.)

Armitage, Marjorie B., Colorado Springs, Colo. Safety-bar. No. 1,393,733; Oct. 18.

Armour Fertilizer Works. (See Shoeld, Mark, assignor.)

Armstrong, Edwin J., assignor to Ball Engine Company, Erie, Pa. Steam-engine. No. 1,393,736; Oct. 18.

Art In Buttons, Inc. (See Stanforth, R., and Angle, assignors.)

Atlas Railway Signal Company. (See Loughridge, Matthew H., assignor.)

Aurand, Arthur G., Los Angeles, Calif. Constructing building-frames. No. 1,393,933; Oct. 18.

Austin, Frederick C. (See Seidler, Alexander, assignor.)

Automatic Electric Company. (See Martin, Talbot G., assignor.)

Autosales Corporation. (See Potts, E. B., and Grover, assignor.)

B.-M. Products Company, The. (See Bull, Charles A., assignor.)

Babcock & Wilcox Company, The. (See Pratt, Arthur D., assignor.) (Reissue.)

Backlund, Oscar T., Deer Lodge, Mont. Sleigh attachment for autovehicles. No. 1,394,514; Oct. 18.

Baesel, William C., Providence, R. I. Washing-machine. No. 1,394,267; Oct. 18.

Balcker, Martin. (See Glasner, R. W., and Balcker.)

Balk, Fred C., *et al.* (See Donner, Stephen, assignor.)

Balkey, George J., Glenshaw, Pa. Thimble. No. 1,394,394; Oct. 18.

Ball Engine Company. (See Armstrong, Edwin J., assignor.)

Ballantyne, John A., London, England. Toy engine. No. 1,394,136; Oct. 18.

Ballenger, Daniel, assignor of one-half to J. B. Williams, Greeley, Colo. Calk-fastener. No. 1,393,934; Oct. 18.

Ballman, Edwin C., assignor to S. A. Whitten, St. Louis, Mo. Electric meter. No. 1,393,737; Oct. 18.

Ballow, B. A., & Co. (See Morehouse, Eugene, assignor.)

Bardsley, Willard W., *et al.*, executors. (See Wardwell, Simon W.)

Barnes, Joseph. (See Veilleux, L., Leveque, and Barnes.)

Baron, Mary C., Hampden Meadows, R. I. Brooder. (Reissue.) No. 15,207; Oct. 18.

Barrett, Clarence E. (See Mooney, Frank H., assignor.)

Basinger, Perry. (See Wilson, Samuel J., assignor.)

Bastian, Charles L., Chicago, Ill. Fluid-pressure-regulating valve. No. 1,394,395; Oct. 18.

Batcheider, Asa F., Schenectady, N. Y., assignor to General Electric Company. Locomotive or car. No. 1,394,059; Oct. 18.

Bates, Lindon W., Mount Lebanon, N. Y. Fireproof-storing mobile fuel. No. 1,394,069; Oct. 18.

Bauer & Black. (See Dorran, Charles A., assignor.)

Baumann, Gilbert A. (See Carpenter, A. H., and Baumann.)

Beadle, Bailey O., Atlantic, Iowa. Non-skid device. No. 1,394,268; Oct. 18.

Beattie Manufacturing Company, The. (See Beattie, Walter J., assignor.)

Beattie, Walter J., assignor to The Beattie Manufacturing Company, Cohoes, N. Y. Needle and oil guard for sewing-machines. No. 1,394,396; Oct. 18.

Beckwith, Louis I. (See Towle, James M., assignor.)

Beecher, Milton F. (See Purdy, R. C., Beecher, and Klein.)

Behn, Guido G., *et al.* (See Hargreaves, Robert C., assignor.)

Bekkerus, Ole T., Hurdsfield, N. D. Rotary snowplow. No. 1,393,935; Oct. 18.

Bell, John E., Brooklyn, N. Y. Cement-kiln plant and operating the same. No. 1,393,738; Oct. 18.

Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)

Benjamin Electric Manufacturing Company. (See Osbun, B. M., and Walker, assignors.)

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric-switch mechanism. No. 1,394,397; Oct. 18.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric-switch mechanism. No. 1,394,398; Oct. 18.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Headlight. No. 1,394,399; Oct. 18.

Benner, Raymond C., and H. F. French, Fremont, Ohio, assignor to National Carbon Company, Inc. Electric battery. No. 1,393,739; Oct. 18.

Bentley, Alfred D., assignor of one-half to United Enterprises Limited, Toronto, Ontario, Canada. Aileron-hinge. No. 1,394,464; Oct. 18.

Benton, James, East Palestine, Ohio. Die and process for making cup-handles. No. 1,394,465; Oct. 18.

Berg, Andrew P., Staten Island, N. Y. Rubber-tire setter. No. 1,394,400; Oct. 18.

Berger, Samuel, New York, N. Y. Motor mechanism for mechanical toys. No. 1,393,936; Oct. 18.

Berlin, George C. (See Sebree, C. H., and Berlin.)

Bernard, Pierre J. H., Montreal, Quebec, Canada. Radiator. No. 1,393,740; Oct. 18.

Bernstein, Abraham, Cincinnati, Ohio. Mattress. No. 1,394,061; Oct. 18.

Berry, George W., Kane, Pa. Hydraulic hoist for dumping vehicles. No. 1,394,245; Oct. 18.

Berry, Hiram H., New York, N. Y. Film-winding means for cameras. No. 1,394,401; Oct. 18.

Bethlehem Steel Company. (See Lachman, Laurence S., assignor.)

Bethlehem Steel Company. (See Lachman, Maurice, assignor.)

Beu, Frank, assignor of one-fourth to W. M. McEwan, Chicago, Ill. Oil-burner. No. 1,393,937; Oct. 18.

Birchfield, Robert W., Waukegan, Ill. Boiler. No. 1,393,741; Oct. 18.

Birkigt, Marc, Bois-Colombes, France. Brake-drum, pulley, or the like. No. 1,394,402; Oct. 18.

Blackledge, John W., Chicago, Ill. Shock-absorber. No. 1,393,938; Oct. 18.

Blackwell, Otto B., Garden City, N. Y., assignor to American Telephone and Telegraph Company. Means for and method of reducing cross-talk in four-wire circuits. No. 1,394,062; Oct. 18.

Blair, Robert S., Sound Beach, Conn. Composite-joint construction. No. 1,394,137; Oct. 18.

Blaney, Thomas, and D. W. Walton, Liverpool, assignors of one-half to The Equipment and Engineering Company, London, England. Overhead trolley or collector for electric tramway and railway vehicles. No. 1,393,950; Oct. 18.

Blanke, Henry. (See Mensch, Arthur J., assignor.)

Blaser, Emmer H. (See Stalley, C. E., Blaser, and Monson.)

Bleick, William D. (See Camp, Edgar M., assignor.)

Blevins, Emory L., Pattonhill, Mont. Air-compressor. No. 1,393,742; Oct. 18.

Bliss, William L., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical distribution. No. 1,393,940; Oct. 18.

Blodgett, William G., and M. H. Roach, Los Angeles, Calif. Exhibiting device. No. 1,393,743; Oct. 18.

Blue, John, Laurinburg, N. C. Planter. No. 1,393,744; Oct. 18.

Boll, Oscar, West Hoboken, N. J. Flashing. No. 1,394,403; Oct. 18.

Boll, Oscar, West Hoboken, N. J. Flashing. No. 1,394,404; Oct. 18.

Bolling, Baltzar E., Racine, Wis. Die-casting ejector. No. 1,394,246; Oct. 18.

Bolling, Baltzar E., Racine, Wis. Die-block. No. 1,394,247; Oct. 18.

Bordwell, Lavern, New York, N. Y. Beater. No. 1,393,941; Oct. 18.

Bost, William D., and H. M. Miller, Los Angeles, Calif.; said Bost assignor to said Miller. Peeling fruits and vegetables. No. 1,394,138; Oct. 18.

Boston Time Stamp Company. (See Levy, Joseph, assignor.)

Bourdeau, Leon N., Rock Island, Ill. Grease-cup. No. 1,393,879; Oct. 18.

Bourdet, André P. E., Paris, France. Apparatus with several tubes for treating pulverulent materials. No. 1,394,269; Oct. 18.

Boyer, Harry L., assignor to Joseph Stokes Rubber Company, Trenton, N. J. Storage-battery separator and producing same. No. 1,394,466; Oct. 18.

Brandenberger, Jaques E., Neuilly-sur-Seine, France. Artificial textile fabric and its manufacture. No. 1,394,270; Oct. 18.

Brandt, Edmund S. R., Newport, R. I. Torpedo. No. 1,394,271; Oct. 18.

Brennan, William F., Collinsville, Ill. Efficiency-table. No. 1,394,405; Oct. 18.

Bright, Claude H., Jr., Memphis, Tenn. Combined stopper and cleaning device. No. 1,394,139; Oct. 18.

Brook, John H. (See Ritz, F., and Brook.)

Brown, Stewart, Chicago, Ill. Frame for games and other purposes. No. 1,394,140; Oct. 18.

Browne, Vere B., Tarentum, Pa. Producing silicon-steel sheets. No. 1,393,880; Oct. 18.

Brunell, Homer A. (See Burtnett, Everett R., assignor.)

Bruninga, John H., assignor to Champion Shoe Machinery Company, St. Louis, Mo. Fastener and slug inserting machine. No. 1,394,467; Oct. 18.

Bruninga, John H., and H. H. Reiss, assignors to Champion Shoe Machinery Company, St. Louis, Mo. Fastener and slug inserting machine. No. 1,394,468; Oct. 18.

Bryan, Aaron G., East St. Louis, Ill. Railway-tie. No. 1,394,272; Oct. 18.

Buck, Abton A., Zurich, Switzerland. Rotary electric switch. No. 1,394,515; Oct. 18.

Bull, Charles A., assignor to The B.-M. Products Company, Inc., Albion, Nebr. Tire-chain guard. No. 1,393,745; Oct. 18.

Bunting Iron Works. (See Driscoll, Dennis J., assignor.)

Burg, Bertha R., San Diego, Calif. Buckle. No. 1,393,881; Oct. 18.

Burkholder, John H., assignor to Elite Manufacturing Company, Ashland, Ohio. Jack. No. 1,394,141; Oct. 18.

Burlat, Antoine, and A. Renaudin, Lyon, France. Motorcycle. No. 1,394,516; Oct. 18.

Burns, James, & Sons. (See Greene, Richard A., assignor.)

Burtnett, Everett R., assignor of one-half to H. A. Brunell, Los Angeles, Calif. Valve for internal-combustion engines. No. 1,394,248; Oct. 18.

Bushnell, John S., New York, N. Y. Calipers. No. 1,393,746; Oct. 18.

Buxton, Thomas C. (See Roby, Edmund T., assignor.)

Cadillac Motor Car Company. (See Snell, Lyle K., assignor.)

Calvert, Elnathan, Des Moines, Iowa. Building block and wall. No. 1,394,406; Oct. 18.

Camp, Edgar M., assignor, by mesne assignments, to W. D. Bleick, Newark, N. J. Dash-pot. No. 1,394,063; Oct. 18.

Canniaaro, James V., New York, N. Y. Milk-bottle retainer. No. 1,394,142; Oct. 18.

Cannon, Frederick L., Bedford, Ohio. Roof-coating applicator. No. 1,393,747; Oct. 18.

Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Drier for motion-picture films. No. 1,394,249; Oct. 18.

Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Registering projected images. No. 1,394,504; Oct. 18.

Carolina Motor Company. (See Sills, Frederick R., assignor.)

Carpenter, Arthur H., and G. A. Baumann, assignors to The Colorado Vanadium Corporation, Sawpit, Colo. Treating vanadium ores and solutions. No. 1,393,748; Oct. 18.

Carrier, Albert H., Asheville, N. C., assignor of one-half to E. W. Grove, St. Louis, Mo. Producing laths. No. 1,394,273; Oct. 18.

Carstens, Alexander B., Monterey, Mexico, assignor to The American Metal Company, Limited. Blast-furnace. No. 1,393,749; Oct. 18.

Carter, Hilton P. M., Montreal, Quebec, Canada. Sector-cable. No. 1,393,750; Oct. 18.

Case, Arold M., Bridgeton, Ind. Rug storing and display rack. No. 1,394,469; Oct. 18.

Casgrain, Charles E., Chicago, Ill. Counting attachment. No. 1,394,274; Oct. 18.

Cashner, Roy C., assignor to L. B. Lewis, Kansas City, Mo. Toy vehicle. No. 1,394,275; Oct. 18.

Cassidy, Robert, Mansfield, Ohio. Reel. No. 1,394,276; Oct. 18.

Casell, Caesar. (See Jones, Edward F., assignor.)

Cesare, Castellari, Montreal, Quebec, Canada. Cigarette-making machine. No. 1,394,250; Oct. 18.

Chadwell, Samuel A., Sugar Grove, Ohio. Vapor-tension-measuring apparatus. No. 1,393,942; Oct. 18.

Champion Shoe Machinery Company. (See Brunings, J. H., and Reiss, assignors.)

Champion Shoe Machinery Company. (See Brunings, John H., assignor.)

Champion Shoe Machinery Company. (See Debyne, Stephen A., assignor.)

Chapin, Charles H. B., Englewood, N. J. Tray for electric heating appliances. No. 1,393,751; Oct. 18.

Chapin, Roy D., *et al.* (See Hargreaves, Robert C., assignor.)

Chapman, William H., Portland, Me. Printing-press attachment. No. 1,394,064; Oct. 18.

Chapman, William L., assignor to Merritt & Chapman Derrick & Wrecking Company, New York, N. Y. Pipe-laying apparatus. No. 1,393,943; Oct. 18.

Chapman, William M., Hartford City, Ind. Mail-box. No. 1,393,944; Oct. 18.

Charles, Henry L., New York, N. Y. Furnace. No. 1,394,470; Oct. 18.

Charles, Henry L., New York, N. Y. Ore-smelting furnace. No. 1,394,471; Oct. 18.

Charles, Henry L., New York, N. Y. Smelting of ores. No. 1,394,472; Oct. 18.

Charles, Henry L., New York, N. Y. Ore-smelting furnace. No. 1,394,473; Oct. 18.

Charles, Henry L., New York, N. Y. Ore-smelting furnace. No. 1,394,474; Oct. 18.

Charls, George H., Canton, Ohio. Rust-resisting alloy of iron. (Reissue.) No. 15,208; Oct. 18.

Chemical Works formerly Sandos. (See Stoll, Arthur, assignor.)

Cherniavsky, Abraham, Los Angeles, Calif. Attachment for stringed instruments. No. 1,394,407; Oct. 18.

Chester, Frank R., Asbury Park, N. J. Amusement apparatus. No. 1,394,277; Oct. 18.

Chojnik, Joseph, Whiting, Ind. Gymnastic toy. No. 1,394,065; Oct. 18.

Christensen, Carl V. J., *et al.*, executors. (See Wardwell, Simon W.)

Christie, Walter, Weehawken, N. J. Aerial-gun tractor. No. 1,394,066; Oct. 18.

Chrysler, Edward E. (See Mariner, G. P., and Chrysler.)

Cirac, George C., Fallon, Nev. Door opening and closing device. No. 1,394,278; Oct. 18.

Clark, John D. (See Ireland, E. G., and Clark.)

Clark, Le Roy G., Detroit, Mich. Electroller. No. 1,393,945; Oct. 18.

Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,393,946; Oct. 18.

Cleveland Tractor Company, The. (See Morgan, Mathew B., assignor.)

Coates, Frederick, Wyoming, assignor to The Federal Products Company, Cincinnati, Ohio. Machine for making flanged heads or ends for paper or pulp containers. No. 1,393,752; Oct. 18.

Colbert, Clarence F., Hoopeston, assignor to Sprague Canning Machinery Company, Chicago, Ill. Can feeding and righting machine. No. 1,393,947; Oct. 18.

Coleman, Frank A., and J. J. Hoffmann, Denver, Colo. Separator-plate for storage batteries. No. 1,394,279; Oct. 18.

Collier, Guy B., Kinderhook, N. Y. Aeroplane-propeller. No. 1,393,753; Oct. 18.

Colorado Vanadium Corporation. (See Carpenter, A. H., and Baumann, assignors.)

Colstad, Charles N., Norfolk Downs, assignor to Masters Manufacturing Company, Boston, Mass. Automobile lock. No. 1,393,754; Oct. 18.

Combustion Control Company. (See Potter, Frederick D., assignor.)

Combustion Engineering Corporation. (See Skelly, John S., assignor.)

Condit, Sears B., Jr. (See Schiffert, Daniel M., assignor.)

Conlan, George A., assignor of one-half to A. C. Thompson, Toronto, Ontario, Canada. Mattress and the like. No. 1,393,755; Oct. 18.

Conner, Eli T., administrator. (See Conner, Harry M.)

Conner, Harry M., deceased, by E. T. Conner, administrator, Scranton, Pa. Rear-loading scoop. No. 1,394,067; Oct. 18.

Cook, Frank, Council Bluffs, Iowa. Coating composition. No. 1,394,280; Oct. 18.

Cook, Joseph F., San Francisco, Calif. Trap-nest. No. 1,393,756; Oct. 18.

Cook, Paul L., Chattanooga, Tenn. Umbrella. No. 1,394,408; Oct. 18.

Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. X-ray apparatus. No. 1,394,143; Oct. 18.

Coolidge, William D., Schenectady, N. Y., and E. A. Wagner, Fort Wayne, Ind., assignors to General Electric Company. Incandescent-cathode apparatus. No. 1,394,144; Oct. 18.

Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. Thermionic discharge apparatus. No. 1,394,145; Oct. 18.

Cooper, Claude H., Yonkers, N. Y. Kitchenette-cabinet. No. 1,394,146; Oct. 18.

Corcoran-Victor Company, The. (See Smith, William B., assignor.)

Cornell, Luella, Brooklyn, N. Y. Operating appliance for angle-cocks for air-hose. No. 1,393,882; Oct. 18.

Costello, Thomas W., San Francisco, Calif. Tire-rim for use on automobiles and other vehicles. No. 1,394,252; Oct. 18.

Costello, William, Jr., Philadelphia, Pa. Coating-machine. No. 1,394,281; Oct. 18.

Cousins, Benjamin, Tulsa, Okla. Hoisting-hook. No. 1,394,068; Oct. 18.

Coxe Traveling Grate Company. (See Lloyd, William, assignor.)

Crane, Frederick D., Montclair, N. J. Electrolytic refining of metals. No. 1,394,147; Oct. 18.

Crease, Walter E., East Greenwich, R. I. Beehive. No. 1,393,757; Oct. 18.

Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electrical Company. Resistor. No. 1,394,187; Oct. 18.

Creveling, John L., Auburn, N. Y. Electric regulation. No. 1,394,148; Oct. 18.

Crompton, George, Jr., Worcester, Mass. Recoil picking mechanism for looms. No. 1,393,758; Oct. 18.

Crosby, Edward H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Counter for locks. No. 1,394,475; Oct. 18.

Crosby, William H., Corning, N. Y. Washing device for autos. No. 1,394,282; Oct. 18.

Crowley, Joseph P., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Method and apparatus for drawing sheet-glass. No. 1,394,283; Oct. 18.

Crown Cork and Seal Company of Baltimore City, The. (See Kryzanowsky, Constant J., assignor.)

Crown Cork and Seal Company of Baltimore City, The. (See Swinscoe, John, assignor.)

Cumfer, Harry, Chicago, Ill., and O. D. McFarland, Mishawaka, Ind., assignors of one-fourth to C. F. Hofmann and one-fourth to G. P. Heppes, Chicago, Ill. Making prepared roofing. No. 1,394,149; Oct. 18.

Currier, James S., Newport, R. I., assignor to the Government of the United States. Torpedo. No. 1,394,284; Oct. 18.

Cutler-Hammer Mfg. Co., The. (See Meyer, Friedrich W., assignor.)

Cutler-Hammer Mfg. Co., The. (See Peoples, John S., assignor.)

Dahlgren, Matts, Falköping-Ranten, Sweden. Window-catch. No. 1,394,253; Oct. 18.

Dake, Charles W., Chicago, Ill. Adjustable hub-plate. No. 1,393,883; Oct. 18.

Dake, Charles W., Chicago, Ill. Adjustable hub-plate. No. 1,393,884; Oct. 18.

Damon, William H., Los Angeles, Calif. Sun and rain shield for automobiles. No. 1,394,254; Oct. 18.

Daniels, Harry H., Winthrop, Mass. Attacher for button-fasteners. No. 1,394,476; Oct. 18.

Daningburg, William J., Windsor, Ontario, Canada. Electric sheet-drier. No. 1,393,759; Oct. 18.

Dautor, Ella A. (See McLeod, J. A., and Dautor.)

Davenport, Thomas L., Everett, Wash. Oil-burner. No. 1,394,188; Oct. 18.

Davies, John J., Jr. (See Zubler, Camp M., assignor.)

Davis, Helen M., Washington, D. C. Testing-mold. No. 1,394,255; Oct. 18.

Davis, Ida, San Antonio, Tex. Milk-bottle cap. No. 1,394,409; Oct. 18.

Davis, William J. (See Hiatt, C. E., and Davis.)

D'Avy, Yves, Opelousas, La. Brick-machine. No. 1,394,285; Oct. 18.

Dayton Steel Foundry Company, The. (See Walther, G., and Klinger, assignors.)

Dayton Steel Foundry Company, The. (See Walther, George, assignor.)

Dean, John, Racine, Wis. Collar-fastener. No. 1,393,760; Oct. 18.

Decker, Otto F. (See Starkey, Luella, assignor.)

De Grasse, George F., Los Angeles, Calif. Tilting bed. No. 1,393,885; Oct. 18.

De Laval Separator Company. (See Leitch, Meredith, assignor.)

De Long, Willard W., and J. A. Rook, Berkeley, Calif. Vehicle-wheel. No. 1,394,286; Oct. 18.

Demarest, Charles S., New York, N. Y., assignor to American Telephone and Telegraph Company. Repeater-controlling system for four-wire circuits. No. 1,394,189; Oct. 18.

Demarest, Charles S., Ridgewood, N. J., assignor to American Telephone and Telegraph Company. Testing system for four-wire circuits. No. 1,394,190; Oct. 18.

Demuth, Alfred M., assignor to Demuth Manufacturing Company, Chicago, Ill. Cooking apparatus. No. 1,393,761; Oct. 18.

Demuth, Alfred M., assignor to Demuth Manufacturing Company, Chicago, Ill. Cooking apparatus. No. 1,393,762; Oct. 18.

Demuth, Alfred M., assignor to Demuth Manufacturing Company, Chicago, Ill. Cooking apparatus. No. 1,393,763; Oct. 18.

Demuth Manufacturing Company. (See Demuth, Alfred M., assignor.)

Denning, Patrick F., Cleveland, Ohio. Automobile robe-rail. No. 1,394,287; Oct. 18.

Denver Rock Drill Manufacturing Company, The. (See Oldham, Edward L., assignor.)

Derick, Clarence G., W. M. Ralph, and L. H. Flett, Buffalo, assignors to National Aniline & Chemical Co., Inc., New York, N. Y. Production of m-nitro-p-cresol. No. 1,394,150; Oct. 18.

Dickerson, Walter H., Muskegon, Mich., assignor, by mesne assignments, to E. J. Koehler. Treating waste sulfite liquor and compound obtained therefrom. No. 1,394,151; Oct. 18.

Dickey, Edward P., Harvey, Ill. Wheel. No. 1,394,477; Oct. 18.

Dickinson, Fredrick S., New York, N. Y., and J. Springer, Bradley Beach, N. J., assignors to said Dickinson. Constructing pneumatic tires. No. 1,394,069; Oct. 18.

Diffany, Henry, Newark, N. J. Shaving mirror and stand. No. 1,394,070; Oct. 18.

Dobyne, Stephen A., assignor to Champion Shoe Machinery Company, St. Louis, Mo. Fastener and slug inserting machine. No. 1,394,478; Oct. 18.

Dodenhof, John M., St. Louis, Mo. Plane. No. 1,393,991; Oct. 18.

Dodge, J. W. (See Little, Bert A., assignor.)

Dodge Tool Company. (See Larson, Arvid G., assignor.)

Doerr, Harry E., assignor to Scullin Steel Co., St. Louis, Mo. Rail-joint. No. 1,393,764; Oct. 18.

Domestic Electric Company, The. (See Mace, Arthur T., assignor.)

Donner, Stephen, assignor of one-fourth to C. W. Felgner, and three-fourths to F. C. Balk, Toledo, Ohio. Beet-blocker. No. 1,394,152; Oct. 18.

Donohue, John M., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether solvent and composition. No. 1,394,505; Oct. 18.

Doran, Charles A., assignor to Bauer & Black, Chicago, Ill. Washer-saturating machine. No. 1,394,153; Oct. 18.

Dorrance, Charles J., Chicago, Ill. Trolley-harp carrier. No. 1,394,507; Oct. 18.

Dossett, Clifford B., Janesville, Minn. Radiator-cap. No. 1,394,288; Oct. 18.

Doty, Walter G., assignor to The Wagner Engineering Company, Dayton, Ohio. Machine element. No. 1,393,886; Oct. 18.

Dragorits, Charles A., Cincinnati, Ohio. Radiator. No. 1,393,765; Oct. 18.

Driscoll, Dennis L., Coalinga, assignor of one-half to Bunting Iron Works, San Francisco, Calif. Fishing-tool for use in drilling operations. No. 1,394,071; Oct. 18.

Du Bois, Daniel S., Portland, Oreg. Manifold for internal-combustion motors. No. 1,393,887; Oct. 18.

Du Charme, William S., Cleveland, Ohio. Portable pipe-vise stand. No. 1,393,766; Oct. 18.

Du Puy, John W., Beaver Falls borough, Pa. Stove. No. 1,394,508; Oct. 18.

Dutes, Maurice, assignor to La Societe Dutes, Doublet & Cie., Levallois-Perret, Seine, France. Magneto-armature. No. 1,394,229; Oct. 18.
Dyte, Norman V., Highgate, London, England. Trousers and like press. No. 1,394,290; Oct. 18.
Eastern Manufacturing Company. (See Howe, Henry P., assignor.)
Eastman, Henry P., Livingston Manor, N. Y. Collapsible box. No. 1,394,154; Oct. 18.
Eastman Kodak Company. (See Capstaff, John G., assignor.)
Eastman Kodak Company. (See Donohue, John M., assignor.)
Eastman Kodak Company. (See Frederick, Charles W., assignor.)
Eastman Kodak Company. (See Parkinson, William J., assignor.)
Eastman Kodak Company. (See Swann, Sydney C., assignor.)
Eddy, Harold C. (See Alden, S. F., and Eddy.)
Egbert, Charles C., Niagara Falls, N. Y. Pressure-relief device. No. 1,394,072; Oct. 18.
Elite Manufacturing Company. (See Burkholder, John H., assignor.)
Enfield Cycle Company Limited, The. (See Smith, Frank W., assignor.)
Equipment and Engineering Company, The. (See Blaney, T., and Williams, assignors.)
Ersin, Harold O., Anoka, Minn. Bed-spring frame. No. 1,394,155; Oct. 18.
Essex Motors. (See Fekete, Stephen I., assignor.)
Essex Motors. (See Whisler, Ralph H., assignor.)
Estes, Ralph D., Estes, Va. Corn-thinner. No. 1,394,201; Oct. 18.
Eustis, George P., Washington, D. C. Shade for headlights. No. 1,394,156; Oct. 18.
Evans, Floyd W., and A. A. Miller, Buffalo, N. Y. Kerosene-burner. No. 1,394,073; Oct. 18.
Everett, Edwin, *et al.* (See Perkins, George E., assignor.)
Evslin, Leo E., New York, N. Y. Dental-bridge construction. No. 1,393,767; Oct. 18.
Ewald, Frederick W., Brooklyn, and H. G. Thomson, New York, N. Y.; said Ewald assignor to said Thomson. Gate. No. 1,394,479; Oct. 18.
Ewart, William, Niagara Falls, Ontario, Canada. Pipe. No. 1,394,292; Oct. 18.
Fairbanks, Morse & Co. (See Heath, William C., assignor.)
Faltin, Bernard P., Bareville, Pa. Dispensing-pump. No. 1,394,191; Oct. 18.
Farkas, Eugene J., Detroit, assignor to Ford Motor Company, Dearborn, Mich. Radiator-filler cap. No. 1,393,992; Oct. 18.
Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Locomotive brake equipment. No. 1,394,074; Oct. 18.
Farnham, Hubert J., West Haven, assignor to The Price & Lee Company, New Haven, Conn. Card-holder. No. 1,394,157; Oct. 18.
Farnsworth, Francis B., Montreal, Quebec, Canada. Cigar-lighter. No. 1,393,888; Oct. 18.
Farrington Manufacturing Company. (See Greenwood, Oliver P., assignor.)
Fasting, Johan S., Frederiksberg, near Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Grinding in ball-mills. No. 1,394,294; Oct. 18.
Fasting, Johan S., Valby, near Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Drum for burning and agglomerating. No. 1,394,293; Oct. 18.
Fearn, William R., Camden, N. J. Kaleidoscope. No. 1,394,480; Oct. 18.
Federal Products Company, The. (See Coats, Frederick, assignor.)
Federal Products Company. (See Rowland, Andrew J., assignor.)
Fehling, Christian F., Juneau, Wis. Folding box or crate. No. 1,394,295; Oct. 18.
Fehring, Adolph G., Minneapolis, Minn. Grain-separator. No. 1,393,993; Oct. 18.
Feifer, Abraham, Philadelphia, Pa. Wrapping-machine. No. 1,393,768; Oct. 18.
Fekete, Stephen I., assignor to Essex Motors, Detroit, Mich. Stove for intake-manifolds of internal-combustion engines. No. 1,393,994; Oct. 18.
Feigner, Charles W., *et al.* (See Donner, Stephen, assignor.)
Fenton, James T., Salt Lake City, Utah. Cracking and distilling oil. No. 1,394,481; Oct. 18.
Ferester, Henry, Brooklyn, N. Y. Control device. No. 1,394,158; Oct. 18.
Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Submarine signaling. No. 1,394,482; Oct. 18.
Fessenden, Reginald A., Chestnut Hill, Mass., assignor to Submarine Signal Company, Portland, Me. Method and apparatus for submarine signaling. No. 1,394,483; Oct. 18.
Fibre Corporation Limited, The. (See Michot, Georges, assignor.)
Figaro Chemical Co. (See Pletcher, Lyle J., assignor.)
Finch, John S., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,394,075; Oct. 18.
Firestone Tire and Rubber Company, The. (See Maranville, H. F., and Stevens, assignors.)
Fish, Edward. (See Novick, A., and Fish.)
Fisher, Charles M. (See Graff, E. F., and Fisher.)
Fisher, Elbert W., Toledo, Ohio. Glass composition and making same. No. 1,394,296; Oct. 18.
Fitts, Walter H., assignor to The Foxboro Company, Foxboro, Mass. Thermometer. No. 1,394,484; Oct. 18.
Fitz Gibbon, Edward L., Brooklyn, N. Y. Motor-vehicle. No. 1,394,076; Oct. 18.
Fitzpatrick, George A. (See Fitzpatrick, John A. and G. A.)
Fitzpatrick, John A. and G. A., Santa Ana, Calif. Drilling wells. No. 1,394,192; Oct. 18.
Flaherty, Edward B., Denver, Colo. Hatpin. No. 1,394,297; Oct. 18.
Fleming, Melvin J., Indianapolis, Ind. Laundry apparatus. No. 1,394,159; Oct. 18.
Flett, Lawrence H. (See Derick, C. G., Ralph, and Flett.)
Flintkote Company, The. (See Overbury, Frederick C., assignor.)
Foore, William E., Nogales, Ariz. Framing-tool. No. 1,394,298; Oct. 18.
Foote, Charles E., assignor to The Foote Company, Nunda, N. Y. Power-operated discharge mechanism for concrete-mixers. No. 1,394,160; Oct. 18.
Foote, Charles E., assignor to The Foote Company, Nunda, N. Y. Power-operated discharge mechanism for concrete-mixers. No. 1,394,161; Oct. 18.
Foote Company, The. (See Foote, Charles E., assignor.)
Forbes Tubular Products Corporation. (See Hendane, Emil, assignor.)
Ford, Henry, Detroit, Mich. Belt-adjusting means. No. 1,393,990; Oct. 18.
Ford Motor Company. (See Farkas, Eugene J., assignor.)
Forster, Albert O. and P. M., Berkeley, Calif. Trap-nest. No. 1,394,485; Oct. 18.
Forster, Percy M. (See Forster, Albert O. and P. M.)
Foster, Arthur B., Washington, D. C. Treating oils. No. 1,394,486; Oct. 18.
Foster, Joseph B., Roanoke, Va. Attaching means for artificial teeth. No. 1,394,299; Oct. 18.
Foute, Raymond R., assignor to Lakeside Supply Company, Chicago, Ill. Phonograph. No. 1,393,769; Oct. 18.
Fox, Gustave, Company, The. (See Laws, Edward H., assignor.)
Foxboro Company, The. (See Fitts, Walter H., assignor.)
Francis, Earl H., Mount Washington, Mo. Film-winding apparatus. No. 1,394,077; Oct. 18.
Franchaeris, Emile, San Francisco, Calif. Check-hinge. No. 1,393,889; Oct. 18.
Franklin, John B., Brockville, Ontario, Canada. Trackweeder. No. 1,394,193; Oct. 18.
Fraser, James, Wilmington, Del., assignor to The Geometric Tool Company, New Haven, Conn. Collapsing tap. No. 1,393,995; Oct. 18.
Frederick, Charles W., assignor to Eastman Kodak Company, Rochester, N. Y. Focusing lens-mount and assembling same. No. 1,394,078; Oct. 18.
Fregonara, Charles Lyon, France. Removable construction. No. 1,393,996; Oct. 18.
French, Charles M., Seymour, Conn. Igniter. No. 1,393,487; Oct. 18.
French, Edward H., Kingsport, Tenn. Fractionally distilling mixtures containing hydrocarbons. No. 1,394,488; Oct. 18.
French, Harry F. (See Benner, R. C., and French.)
Friedman, Jacob, New York, N. Y. Preparing cereal food. No. 1,393,997; Oct. 18.
Fuchs, Ernest, assignor to L. Renault, Billancourt, France. Apparatus for use in calibrating and rifling the bore of firearms. No. 1,394,079; Oct. 18.
Fuhr, Conrad, Milwaukee, Wis. Gas-stove lighter. No. 1,393,890; Oct. 18.
Fuller, Franz A., assignor to J. E. Mergott Company, Newark, N. J. Bag-fastener. No. 1,393,770; Oct. 18.
Fuller, Fred E. (See McNeal, Charles A., assignor.)
Fuller, Frederick L., Bridgeport, Conn., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,394,256; Oct. 18.
Fulton, William H., Irvington, N. J. Manufacture of tires. No. 1,393,998; Oct. 18.
Funkhouser, Vernon E., Kansas City, Mo., and A. M. Meyers, Merriam, Kans. Motor-vehicle turner. No. 1,394,489; Oct. 18.
Gagnon, Joseph H., assignor of two-thirds to V. Geoffrion, Montreal, Quebec, Canada. Combination kitchen utensil. No. 1,394,194; Oct. 18.
Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Reinforced rubber article. No. 1,394,300; Oct. 18.
Garceau, Theode, Three Rivers, Quebec, Canada. Buckle. No. 1,394,195; Oct. 18.
Garnett, Thomas W., Topeka, Kans. Attachment for blow-torches. No. 1,393,999; Oct. 18.
Garrett, Berton A., Ballston Spa, N. Y., assignor to General Electric Company. Gearing. No. 1,394,060; Oct. 18.
Garson, Peter M., Philadelphia, Pa. Emergency-tire. No. 1,394,410; Oct. 18.
Gas Research Company, The. (See Smith, Harry F., assignor.)
Geake, Harry J., Victoria, British Columbia, Canada. Auxiliary exhaust-port. No. 1,394,411; Oct. 18.
Gebhardt, William, San Antonio, Tex. Making stock food from cactus. No. 1,394,162; Oct. 18.

General Electric Company. (See Abbott, Charles C., assignor.)
General Electric Company. (See Batchelder, Asa F., assignor.)
General Electric Company. (See Coolidge, W. D., and Wagner, assignors.)
General Electric Company. (See Coolidge, William D., assignor.)
General Electric Company. (See Creighton, Elmer E. F., assignor.)
General Electric Company. (See Garrett, Berton A., assignor.)
General Electric Company. (See Halvorson, Cromwell, A. B., Jr., assignor.)
General Electric Company. (See Sclater, Ivanhoe H., assignor.)
General Electric Company. (See Stephens, Howard O., assignor.)
General Electric Company. (See White, William C., assignor.)
General Motors Company. (See Short, Charles R., assignor.)
General Motors Corporation. (See Marinier, G. P., and Chrysler, assignors.)
General Ordnance Co., The. (See Giles, Julian A., assignor.)
Gentner, William H., Farmington, Iowa. Currency. No. 1,394,081; Oct. 18.
Geoffrion, Victor. (See Gagnon, Joseph H., assignor.)
Geometric Tool Company, The. (See Fraser, James, assignor.)
George, Enoch Jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Draft-yoke. No. 1,394,163; Oct. 18.
Georger, Clifford H., Buffalo, N. Y. Vehicle-signal. No. 1,394,000; Oct. 18.
Gerrard, Thomas, assignor of one-half to D. Kernan, Cortland, N. Y. Oil-burning furnace. No. 1,394,164; Oct. 18.
Gibson, Calder C., Buffalo, N. Y. Seal-press. No. 1,394,165; Oct. 18.
Gibson, Norman R., Niagara Falls, Ontario, Canada. Apparatus for obtaining pressure time diagrams. No. 1,394,001; Oct. 18.
Gibson, Thomas C., Forsyth, Ga. Penknife. No. 1,394,166; Oct. 18.
Giles, Harvey C., Rochester, N. Y. Riveting-machine. No. 1,394,506; Oct. 18.
Giles, Julian A., Derby, assignor to The General Ordnance Co., Groton, Conn. Non-recoil gun. No. 1,394,490; Oct. 18.
Gill, Joseph W. (See Sullivan, A. C., and Gill.)
Gisholt Machine Company. (See Godfriaux, Louis E., assignor.)
Glasner, Rudolph W., and M. Balcker, assignors to Marquette Tool & Manufacturing Company, Chicago, Ill. Weighing and sorting machine. No. 1,394,167; Oct. 18.
Godfriaux, Louis E., assignor to Gisholt Machine Company, Madison, Wis. Force-feed oiler. No. 1,394,168; Oct. 18.
Goedde, Edward C., Chicago, Ill. Phonograph-record holder. No. 1,393,771; Oct. 18.
Goldsmith, William M., Cincinnati, Ohio. Insert for plastic materials. No. 1,394,002; Oct. 18.
Gondolf, Nicholas J., New Orleans, La. Axle-mounting. No. 1,394,491; Oct. 18.
Goodrich, B. F., Company, The. (See Gammeter, John R., assignor.)
Goodrich, B. F., Company, The. (See Pierson, Robert M., assignor.)
Goodwin, William B., Columbus, Ohio. Cushion vehicle-wheel. No. 1,394,492; Oct. 18.
Goodyear Tire & Rubber Company, The. (See Weatherill, Ambrose, assignor.
Gore, Charles, Los Angeles, Calif. Mechanically-operated safety zone. No. 1,394,003; Oct. 18.
Gould, Harry V., Bridgeport, Conn. Parallel clamp for holding jig and fixture buttons. No. 1,394,004; Oct. 18.
Government of the United States, The. (See Currier, James S., assignor.)
Graf, Siegfried. (See Raddick, David J., assignor.)
Graff, Edwin E., and C. M. Fisher, South Bend, Ind. Spring for chair-backs and the like. No. 1,394,005; Oct. 18.
Graff, William D. (See Theberath, Joseph C., assignor.)
Grasse, Charles J., assignor of one-half to T. Treganowan, Pittsburgh, Pa. Combination automobile-creeper. No. 1,394,493; Oct. 18.
Green Engineering Company. (See Marsh, Thomas A., assignor.)
Green Engineering Company. (See Poppenhusen, H. A., and Strong, assignors.)
Green, G. Marvin, Kissimmee, Fla. Dish-washer. No. 1,394,169; Oct. 18.
Green, Samuel G., U. S. Army. Safety and guide attachment for machine-gun magazines. No. 1,394,494; Oct. 18.
Greene, Richard A., Brooklyn, N. Y., assignors to Jabez Burns & Sons. Nut-mill. No. 1,394,082; Oct. 18.
Greenick, Arthur A., Buffalo, N. Y. Roaster. No. 1,394,412; Oct. 18.
Greenwood, Oliver P., Billerica, assignor to Farrington Manufacturing Company, Boston, Mass. Machine and process for altering covering material to forms. No. 1,393,772; Oct. 18.
Grieve, Rafael E., and R. Johnson, Los Angeles, Calif. Bumper. No. 1,394,170; Oct. 18.
Griffiths, Harry A., Birmingham, and R. H. Griffiths, Sutton Coldfield, England. Sheet-metal-blank feeder. No. 1,394,006; Oct. 18.
Griffiths, Ira H., Syracuse, N. Y. Gun-mounting. No. 1,394,083; Oct. 18.
Griffiths, Richard H. (See Griffiths, Harry A. and R. H.)
Grill, Enoch, Grand Rapids, Mich. Tire. No. 1,393,773; Oct. 18.
Gross, George G., Columbus, Ohio. Windshield attachment. No. 1,394,084; Oct. 18.
Grover, Albert D. (See Potts, E. B., and Grover.)
Grove, Edwin W. (See Carrier, Albert H., assignor.)
Gruenberg, Walter A., Birmingham, assignor to J. L. Marcero, Pontiac, Mich. Clay-working machinery. No. No. 1,394,495; Oct. 18.
Gullas, John. (See Piscek, Joseph Y., assignor.)
Gushman, Joseph F., Toledo, Ohio. Swing. No. 1,393,774; Oct. 18.
Gymnaitis, Dimitrios. (See Machado, William C., assignor.)
H. R. Manufacturing Company. (See Saxton, A. G., and Menard, assignors.)
Hale, Russell E. (See Seward, H. L., and Hale.)
Hall, Mary E., Chicago, Ill. Electric needle. No. 1,394,171; Oct. 18.
Hall, Mary L., Louisville, Ky. Collapsible wardrobe. No. 1,394,007; Oct. 18.
Halvorson, Cromwell A. B., Jr., Lynn, Mass., assignor to General Electric Company. Metal mirror. No. 1,394,085; Oct. 18.
Handley Page Limited. (See Page, Frederick H., assignor.)
Hansen, Sofus E., Seattle, Wash. Bearing-board. No. 1,393,891; Oct. 18.
Hanson, George, Wilmington, N. C. Ventilator. No. 1,393,775; Oct. 18.
Hardesty, Frederick J. (See Heeter, T. E., and Hardesty.)
Harding, Lewis W., Norfolk, Va., assignor of one-half to J. A. Lesner. Safety-flap pocket registry-envelop. No. 1,393,776; Oct. 18.
Hardinge Brothers. (See Hardinge, Franklin, assignor.)
Hardinge, Franklin, assignor to Hardinge Brothers, Inc., Chicago, Ill. Method of and apparatus for lining furnace-fireboxes. No. 1,393,777; Oct. 18.
Hargreaves, Robert C., assignor of one-third to R. D. Chapin and one-third to G. G. Behn, Detroit, Mich. Toy. No. 1,394,008; Oct. 18.
Harriman National Bank of the City of New York, trustee. (See Nedel, Louis D., assignor.)
Harris, Carl C., Orange, Mass., assignor to Rivet-O-Manufacturing Company. Moistening device. No. 1,394,196; Oct. 18.
Hartman, Maurice. (See Wachtel, Charles, assignor.)
Hauffe, Chester N., Columbus, Ohio. Tire-rim. No. 1,394,009; Oct. 18.
Hawkins, Wilford J. (See Steele, Archie W., assignor.)
Hayes, George A., Fort Lee, N. J. Paint-pot hanger. No. 1,394,301; Oct. 18.
Heath, William C., Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Engine-mechanism assembly. No. 1,393,778; Oct. 18.
Heckmann, William, Irvington, N. J. Sealing-cap-attaching apparatus. No. 1,394,086; Oct. 18.
Heeter, Thomas E., St. Louis, and F. J. Hardesty, Maplewood, Mo. Liquid-dispensing device. No. 1,394,010; Oct. 18.
Heinrich, Walter A., assignor to W. N. Matthews and Brother, Inc., St. Louis, Mo. Cut-out switch. No. 1,394,087; Oct. 18.
Heinse, John O., assignor to Traction Engine Company, Boyne City, Mich. Motor-vehicle. No. 1,393,779; Oct. 18.
Heinse, John O., assignor to Traction Engine Company, Boyne City, Mich. Tractor. No. 1,393,780; Oct. 18.
Heller, Benjamin, Chicago, Ill. Insect-destroyer. No. 1,394,497; Oct. 18.
Heller, John W., Buena, N. J. Folding rule. No. 1,394,088; Oct. 18.
Hendler, Max. (See Tamarin, Abraham and F., and Hendler.)
Henry, Theophilus P. (See Nail, J. E., and Henry.)
Heppes, George P., *et al.* (See Cumfer, H., and McFarland, assignors.)
Herbert, John W. (See Andrews, J. A., and Herbert.)
Hering, Max, Ronneburg, Germany. Locking device for detachable wheel-hubs. No. 1,394,257; Oct. 18.
Herman, Claude A., Bridgeport, Conn. Power-driven screwdriver. No. 1,394,089; Oct. 18.
Herrington, H. L. (See Leavitt, James Q., assignor.)
Hewlett, Palmer B., Hollister, Calif. Milking-machine. No. 1,393,781; Oct. 18.
Hiatt, Cassius E. and W. J. Davis, London, England. Valve of wireless transmission systems. No. 1,394,090; Oct. 18.
Hill, Theodore M., Shubert, Nebr. Nut-lock. No. 1,394,012; Oct. 18.

Hillard, Frederic W., Tottenville, N. Y., assignor of one-half to M. R. Hillard, Middlebury, Conn. Typewriting machine. (Reissue.) No. 13,360; Oct. 18.
Hillard, Mary R. (See Hillard, Frederic W., assignor. (Reissue.)
Hills, Frank. (See Tierney, J. W., and Hills.)
Hills, Harry B., Tompkinsville, assignor to Steward Davit & Equipment Corporation, New York, N. Y. Ship's davit. No. 1,394,091; Oct. 18.
Hills, Henry A. Grand Rapids, Mich. Filter for gasoline-tanks. No. 1,394,011; Oct. 18.
Hinsdale, Winfield E., and M. W. Lansing, assignors to Trenton Potteries Company, Trenton, N. J. Sanitary fixture. No. 1,394,302; Oct. 18.
Hobbs, Frank K., Guymon, Okla. Clamp. No. 1,394,413; Oct. 18.
Hoener, Samuel T., Slater, Mo. Front-wheel drive for vehicles. No. 1,394,013; Oct. 18.
Hoffmann, Joseph J. (See Coleman, F. A., and Hoffmann.)
Hofmann, Carl F., et al. (See Cumfer, H., and McFarland, assignors.)
Hogan, Joseph E., New York, N. Y. Belt. No. 1,394,414; Oct. 18.
Holt, Samuel E., Rhinebeck, N. Y. Work-support for grinders. No. 1,394,014; Oct. 18.
Hopkins, Hubert J., San Francisco, Calif. Ladder-raising device. No. 1,394,498; Oct. 18.
Horan, George F., Rutland, Vt. Train-stop. No. 1,394,303; Oct. 18.
Horvath, Gesa, Highland Park, Mich. Automatic accelerator and fuel-regulator. No. 1,394,015; Oct. 18.
Howard, Bloomfield H., Washington, D. C., and R. J. Turner, Pittsburgh, Pa. Feeder for ingot-molds. No. 1,394,415; Oct. 18.
Howe, Henry P., Steep Falls, Me., assignor, by mesne assignments, to Eastern Manufacturing Company, Boston, Mass. Machine for surface-finishing paper. No. 1,394,016; Oct. 18.
Hult, Oscar W., Stockholm, Sweden. Balancing device for explosion or internal-combustion motors. No. 1,393,782; Oct. 18.
Handley, James, Columbus, Ohio. Making steel. No. 1,394,172; Oct. 18.
Huntley, Charles W., et al. (See Morgan, John H., assignor.)
Hurd, George H., Georgetown, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,393,783; Oct. 18.
Hurd, Leigh G., Los Angeles, Calif. Hatpin-fastener. No. 1,394,304; Oct. 18.
Hurley, Albert B., Wilmington, assignor to L. W. Hurley, Seaford, Del. Educational device. No. 1,394,305; Oct. 18.
Hurley, L. W. (See Hurley, Albert B., assignor.)
Huseby, Albert A., Chicago, Ill. Automatic starting and stopping device for talking-machines. No. 1,394,173; Oct. 18.
Hutton, Edward S., Lapel, Ind. Machine for making hollow glassware. No. 1,394,092; Oct. 18.
Hyatt Bearings Division, General Motors Corporation. (See Knoth, Conrad, assignor.)
Hynes, Dibrell P., Evanston, Ill. Flotation-machine. No. 1,394,306; Oct. 18.
Iannelle, Louis, Boston, Mass. Detachable shoe-heel. No. 1,393,784; Oct. 18.
Illinois Tool Works. (See Olson, Carl G., assignor.)
Imperial Brass Manufacturing Company, The. (See Rudolph, Walter J., assignor.)
Ingram, Joseph D., Amarillo, Tex. Engine. No. 1,393,785; Oct. 18.
Ingstrum, Phineas C., Rochester, N. Y. Jointer-guard. No. 1,394,499; Oct. 18.
International Motor Company. (See Matthews, Joseph L., assignor.)
Ireland, Edwin G., and J. D. Clark, Clayburn, British Columbia, Canada. Hacksaw. No. 1,394,174; Oct. 18.
Jackson, Edward, New York, N. Y. Printer's case. No. 1,394,307; Oct. 18.
Jackson, Frank, Denver, Colo. Pressure-operated grease-injecting device or grease-gun for automobile service. No. 1,394,017; Oct. 18.
Jackson, Isaac S., assignor to The Rossendale-Reddaway Belting & Hose Co., Newark, N. J. Conveyer-belt. No. 1,394,018; Oct. 18.
Jackson, Merritt T., Faber, Va. Automatic switch-operating means. No. 1,394,416; Oct. 18.
Jackson, Simeon S., assignor to The Stafford Company, Readville, Boston, Mass. Weft-replenishing loom. No. 1,394,175; Oct. 18.
Jackson, William G., Pompton Lakes, N. J. Ball-game apparatus. No. 1,394,308; Oct. 18.
Janney, Robert E. L., Chicago, Ill. Damper for talking-machines. No. 1,394,176; Oct. 18.
Jaques, C. F. (See Merritt, James M., assignor.)
Jensen, Herman A., Castle Rock, Wash. Cable-coupling. No. 1,394,019; Oct. 18.
Jewett, Sherman S., Buffalo, N. Y. Oven-burner. No. 1,393,786; Oct. 18.
John, Elmer N., assignor to Reliable Knitting Works, Milwaukee, Wis. Knitted cap and making the same. No. 1,394,003; Oct. 18.
Johnson Automobile Lock Co. (See Johnson, Calvin L., assignor.)
Johnson, Colvin L., assignor to Johnson Automobile Lock Co., Chicago, Ill. Automobile-tire-lock cable. No. 1,394,259; Oct. 18.
Johnson, Colvin L., assignor to Johnson Automobile Lock Co., Chicago, Ill. Gear-shift-lever lock. No. 1,394,258; Oct. 18.
Johnson, Merton E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole and making. No. 1,393,787; Oct. 18.
Johnson, Raymond. (See Grieve, R. H., and Johnson.)
Johnson, Tomlinson F., Jr., Atlanta, Ga. Insulator-changer. No. 1,394,020; Oct. 18.
Johnson, Wesley J., Chicago, Ill. Duplex grating for pipeless furnaces. No. 1,394,260; Sept. 18.
Jones, Edward F., assignor of one-half to C. Casell, San Antonio, Tex. Locking device for automobiles. No. 1,394,021; Oct. 18.
Jones, Owen H., Hartford, Conn. Ball-cock. No. 1,394,022; Oct. 18.
Jones, Robert W., Wilkes-Barre, Pa. Retaining means. No. 1,394,177; Oct. 18.
Juengst, Charles A., Croton Falls, N. Y., assignor to American Assembling Machine Company, Inc., Memphis, Tenn. Cutting mechanism. No. 1,394,309; Oct. 18.
Justice, Ithamar M., assignor to The Manufacturers Equipment Company, Dayton, Ohio. Process in direct-action driers. No. 1,393,788; Oct. 18.
Kantner, Washington C., Reading, Pa. Sound-box. No. 1,394,427; Oct. 18.
Kantner, Washington C., Reading, Pa. Sound-box. No. 1,394,428; Oct. 18.
Keeline, Mrs. W. F., administratrix. (See Keeline, William F.)
Keeline, William F., deceased, by Mrs. W. F. Keeline, administratrix, El Centro, Calif. Fruit-picker's bag. No. 1,394,197; Oct. 18.
Keenan, Charles W., Tucson, Ariz. Envelop-vending machine. No. 1,394,429; Oct. 18.
Kellenberger, Leonard, St. Gallen, Switzerland. Mandrel-press. No. 1,393,789; Oct. 18.
Kellogg Switchboard and Supply Company. (See Yanochowski, George A., assignor.)
Kempkey, Augustus, Brentwood, Calif. Irrigation gate-post. No. 1,394,023; Oct. 18.
Kenney, Harry J., Seattle, Wash. Trolling-spinner. No. 1,393,790; Oct. 18.
Kernan, Daniel. (See Gerrard, Thomas, assignor.)
Kershaw, Edwin T., Denver, Colo. Internal-combustion engine. No. 1,394,024; Oct. 18.
Kessler, Frank, Sr., Milwaukee, Wis. Cooking-oven. No. 1,394,310; Oct. 18.
Kimball, Wallace D., New York, N. Y., and C. G. Mortimer, East Orange, N. J., assignors to National Binding Machine Company, New York, N. Y. Spliced joint for balebands. No. 1,393,791; Oct. 18.
Kindser, Alexander, Canon City, Colo. Resilient wheel. No. 1,394,024; Oct. 18.
King, Clarence R., assignor to Norton Company, Worcester, Mass. Making abrading-tools. No. 1,394,500; Sept. 18.
Kiefe, Abraham A. (See Pardy, R. C., Beecher, and Kiefe.)
Klinger, Peter W. (See Walther, G., and Klinger.)
Kluga, Felix. (See Kluga, Vincent and F.)
Kluga, Vincent and F., Niagara Falls, N. Y. Automobile water-pump. No. 1,394,025; Oct. 18.
Knapp Brothers Manufacturing Company. (See Knapp, George A., assignor.)
Knapp, George A., Chicago, Ill., assignor to Knapp Brothers Manufacturing Company. Metal facing for inside of window-openings. No. 1,393,792; Oct. 18.
Knoll, Lloyd M., assignor of one-fourth to T. Appleby, Philadelphia, Pa. Radio system. No. 1,394,026; Oct. 18.
Knoth, Conrad, Hillside, assignor to Hyatt Bearings Division, General Motors Corporation, Harrison, N. J. Roll-winding machine. No. 1,394,095; Oct. 18.
Koehler, Edward J. (See Dickerson, Walter E., assignor.)
Komfytite Spring and Bed Corporation. (See Tamarin, Abraham and F., and Hendler, assignors.)
Koon, William F. (See Nordberg, C. E., and Koon.)
Koster, George M. A., Eccles, near Manchester, England. Scooter. No. 1,394,430; Oct. 18.
Kring, Edward A., Pasadena, Calif. Supporting structure for packing-boxes. No. 1,394,028; Oct. 18.
Kroth, John, Forks, N. Y. Power-wheel. No. 1,394,417; Oct. 18.
Kryzanowsky, Constant J., Mount Washington, assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Camera. No. 1,393,793; Oct. 18.
Kuhlman, Carl H., Toledo, Ohio. Switch-box. No. 1,393,794; Oct. 18.
L-W-F Engineering Company. (See Willard, Charles F., assignor.)
Lacey, Edyth, New York, N. Y. Toy. No. 1,394,096; Oct. 18.
Lachapelle, Cyrille, St. Paul l'Ermite, Quebec, Canada. Planter. No. 1,394,097; Oct. 18.
Lachman, Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,393,795; Oct. 18.
Lachman, Laurence S., New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal vehicle-wheel. No. 1,393,796; Oct. 18.
Lachman, Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,393,797; Oct. 18.
Lake, John L., and F. D. McMahon, Cleveland, Ohio. Tractor. No. 1,394,098; Oct. 18.

Lakeside Supply Company. (See Foute, Raymond R., assignor.)
Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Six-wheel equalising-truck. No. 1,393,798; Oct. 18.
Lang, Frederick F., Detroit, Mich. Radiator-core. No. 1,394,311; Oct. 18.
Lansden, John M., New York, N. Y. Motor-vehicle and axle therefor. No. 1,394,009; Oct. 18.
Lansing, Martin W. (See Hinsdale, W. E., and Lansing.)
Lant, George W., Providence, assignor to Abrasive Machine Tool Co., East Providence, R. I. Grinding-machine. No. 1,394,418; Oct. 18.
Larson, Arvid G., assignor to Dodge Tool Company, Grinnell, Iowa. Radial engine. No. 1,394,419; Oct. 18.
Larsson, Carl H., Seattle, Wash. Scaffold-jack. No. 1,394,178; Oct. 18.
La Société Duten, Doublet & Cie. (See Duten, Maurice, assignor)
Laurick, Carl, Berlin, Germany. Mixing, kneading, and the like machine. No. 1,393,799; Oct. 18.
Lawrence, Oscar A, San Francisco, Calif. Door-buffer No. 1,394,420; Oct. 18.
Lawrence, William, Harcourt, Iowa. End-gate. No. 1,394,108; Oct. 18.
Laws, Edward H., assignor to The Gustave Fox Company, Cincinnati, Ohio. Plate-attaching means. No. 1,394,029; Oct. 18.
Lea, Charles, assignor to American Warp Drawing Machine Company, Boston, Mass. Reed for spacing warp-threads. No. 1,394,431; Oct. 18.
Leary, John S., North Cambridge, Mass. Clasp for hose-supporters. No. 1,394,199; Oct. 18.
Leavitt, James O., assignor of one-half to H. L. Herrington, Ogden, Utah. Label-feed device. No. 1,394,432; Oct. 18.
Leech, Edward W., Jr., Baltimore, Md. Non-skid tire-protector. No. 1,394,312; Oct. 18.
Leeper, Henry T., Fredonia, Ky. Artificial bait. No. 1,394,313; Oct. 18.
Leinbrock, Oskar, Gottleuba, Germany. Intermediate belt-gearing. No. 1,394,100; Oct. 18.
Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Milking-machine. No. 1,394,433; Oct. 18.
Lemon, Frederick M., Oklahoma, Okla. Automatic opener for parachutes. No. 1,394,201; Oct. 18.
Leo, Frank, assignor of one-half to F. Sage, Milwaukee, Wis. Hair-clippers. No. 1,393,948; Oct. 18.
Le Pul, Henry J., New York, N. Y. Aeroplane. No. 1,394,314; Oct. 18.
Lesner, John A. (See Harding, Lewis W., assignor.)
Leumann, Richard, Chailly-sur-Lausanne, Switzerland. Automatic sheet-feeding device. No. 1,394,202; Oct. 18.
Leveque, Philip H. (See Veilleux, L., Leveque, and Barbes.)
Levy, Joseph, assignor to Boston Time Stamp Company, Boston, Mass. Time-stamp. No. 1,394,179; Oct. 18.
Lewis, Claude L., Omaha, Nebr. Agitator. No. 1,394,315; Oct. 18.
Lewis, G. B., Company. (See Swann, Henry C., assignor.)
Lewis, Le Grand B. (See Cashner, Roy C., assignor.)
L'Heureux, Joseph H., Lowell, Mass. Garment-supporter. No. 1,394,316; Oct. 18.
Libbey-Owens Sheet Glass Company, The. (See Crowley, Joseph P., assignor.)
Lillie, Samuel M., Philadelphia, Pa. Conserving heat in steam-power plants. No. 1,393,800; Oct. 18.
Little, Bert A., assignor of one-half to J. W. Dodge, Tulsa, Okla. Electric handlamp. No. 1,394,101; Oct. 18.
Lloyd, William, Hazleton, assignor to Coxe Traveling Grate Company, Port Carbon, Pa. Furnace. No. 1,394,421; Oct. 18.
Lofker, Charles L., Minneapolis, Minn. Band-cutter. No. 1,394,434; Oct. 18.
Long, Edward C. (See Miller, L. G., and Long.)
Long, Willard O., Mansfield, Ohio. Harrow. No. 1,394,030; Oct. 18.
Longfellow, Harry S. (See Medine, Frank J., assignor.)
Lovell, Christopher H., assignor, by mesne assignments, to T. M. Webster, St. Louis, Mo. Envelop-fastener. No. 1,393,801; Oct. 18.
Loughridge, Matthew H., Bogota, N. J., assignor to Atlas Railway Signal Company. Embossing-machine. No. 1,394,261; Oct. 18.
Loutrel, Cyrus H., South Orange, N. J., assignor to The National Lock Washer Company, Newark, N. Y. Sash-fastener. No. 1,394,317; Oct. 18.
Lowe, Harry W., Omaha, Nebr., assignor, by mesne assignments, to Sprague Canning Machinery Co. Finishing-machine. No. 1,393,949; Oct. 18.
Luden, Jacob C., Reading, Pa. Dust-collecting machine. No. 1,393,802; Oct. 18.
Lundin, Andreas P., Bayside, N. Y., assignor to American Balsa Company, Inc. Life-preserver. No. 1,394,180; Oct. 18.
Lundin, Mattias O., Los Angeles, Calif. Liquid-level gage. No. 1,394,031; Oct. 18.
Lupton, Benjamin M., Jr., Jersey City, N. J. Rotary engine. No. 1,393,802; Oct. 18.
Lutterbach, Henry, Armstrong, Ind. Steering device for tractors. No. 1,394,203; Oct. 18.
McArthur, John O., Milwaukee, Wis. Piston. No. 1,394,204; Oct. 18.
McCauley, Terence, Warren, Ohio. Roll scraper. No. 1,394,102; Oct. 18.
McConway & Torley Company, The. (See George, Enoch, Jr., assignor.)
McCullagh, John K., Toronto, Ontario, Canada. Automobile lamp and license-plate holder. No. 1,394,017; Oct. 18.
McCullough, J. W., et al. (See Perkins, George E., assignor.)
McEwen, Willard M. (See Ben, Frank, assignor.)
McFarland, Owen D. (See Cumfer, H., and McFarland.)
McFeely, William C., New York, N. Y. Auxiliary car-step. No. 1,393,893; Oct. 18.
McGill, Daniel F., Portland, Oreg. System of raising sunken ships. No. 1,393,894; Oct. 18.
McGlynn, Joseph B., assignor to The West Steel Casting Company, Cleveland, Ohio. Preparing steel for casting. No. 1,394,103; Oct. 18.
McGuire, Ottis M., Bridgeport, Nebr. Wheel-holder for railway-cars. No. 1,394,318; Oct. 18.
McKeown, Samuel C., assignor to Splitdorf Electrical Company, Newark, N. J. Electric-circuit-controlling device. No. 1,394,032; Oct. 18.
McKim, Alexander, deceased, by K McKim, administratrix, Wilkinsburg, Pa. Nut. No. 1,393,803; Oct. 18.
McKim, Katherine, administratrix. (See McKim, Alexander.)
McLeod, Edison, Banta, Calif. Tightener-yoke for friction-clutch segments. No. 1,393,895; Oct. 18.
McLeod, John A., and E. A. Dautor, Chicago, Ill. Adjustable jar-cover opener. No. 1,394,033; Oct. 18.
McMahon, Francis D. (See Lake, J. L., and McMahon.)
McNeal, Charles A., assignor of one-half to F. E. Fuller, Columbus, Ohio. Headlight-reflector. No. 1,394,319; Oct. 18.
McVicker, John A., New York, N. Y. Molding wax records. No. 1,394,034; Oct. 18.
MacDonald, Donald N., Boston, Mass. Transparent glass screen for transmitting substantially white light from incandescent electric lamps. No. 1,393,804; Oct. 18.
Mace, Arthur T., assignor to The Domestic Electric Company, Cleveland, Ohio. Driving mechanism for sewing-machines. No. 1,394,320; Oct. 18.
Machado, William C., Montecito, assignor of one-half to Dimitrios Gymnaitis, Santa Barbara, Calif. Automatic grease-cup. No. 1,394,435; Oct. 18.
MacLachlan, John C., assignor to Standard Food Products Company, St. Paul, Minn. Granular food product. No. 1,394,035; Oct. 18.
Main, Alfred, Aberdeen, Scotland. Tip-up seat. No. 1,394,036; Oct. 18.
Malcolm, Ormond C., Auburn, N. Y. Brush-holder. No. 1,394,205; Oct. 18.
Mallory, George P., Yorklyn, Del., assignor, by mesne assignments, to Sanitary Products Corporation of America, Philadelphia, Pa. Apparatus for making paper spoons and other flat paper utensils. No. 1,394,037; Oct. 18.
Manufacturers Equipment, The. (See Justice, Ithamar M., assignor.)
Maranville, Harvey F., and H. D. Stevens, assignors to The Firestone Tire and Rubber Company, Akron, Ohio. Rubber-punching machine. No. 1,394,422; Oct. 18.
Marcero, Joseph L. (See Gruenberg, Walter A., assignor.)
Mariner, Gilbert P., and E. E. Chrysler, Pontiac, assignors to General Motors Corporation, Detroit, Mich., Car-loading system. No. 1,394,038; Oct. 18.
Marquette Tool & Manufacturing Company. (See Glasner, R. W., and Balcker, assignors.)
Marsden, James, Wigan, England. Sewing-machine. No. 1,394,039; Oct. 18.
Marsh, Thomas A., Chicago, Ill., assignor to Green Engineering Company, East Chicago, Ind. Fire-arch. No. 1,393,805; Oct. 18.
Marshuts, Herbert S., assignor to American Thermo-Ware Company, New York, N. Y. Hydrometer-syringe. No. 1,394,322; Oct. 18.
Marsico, Gerard R., assignor to Puriton Manufacturing Corporation, Brooklyn, N. Y. Signal. No. 1,393,896; Oct. 18.
Marsico, Gerard R., assignor to Puriton Manufacturing Corporation, Brooklyn, N. Y. Signal. No. 1,393,897; Oct. 18.
Marsico, Gerard R., assignor to Puriton Manufacturing Corporation, Brooklyn, N. Y. Signal. No. 1,393,898; Oct. 18.
Marsico, Gerard R., assignor to Puriton Manufacturing Corporation, Brooklyn, N. Y. Signal. No. 1,393,899; Oct. 18.
Martin, Stanley E., Bloom, Kans. Windmill-power engine. No. 1,394,104; Oct. 18.
Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,393,806; Oct. 18.
Martini, Frank. (See Massi, A., and Martini.)
Mason, William H., Leesburg, Ohio. Fence-gripping device. No. 1,393,807; Oct. 18.
Masters Manufacturing Company. (See Colstad, Charles N., assignor.)
Mathieu, Fred L., South Bend, Ind. Massage-brush. No. 1,394,206; Oct. 18.
Matson, Frederick, Redlands, Calif. Square. No. 1,394,323; Oct. 18.
Mandel, Jacob, New York, N. Y. Sheet-metal-backing frame. No. 1,394,321; Oct. 18.

Matthews, Joseph L., Highland Park, N. J., assignor to International Motor Company, New York, N. Y. Gear-testing machine. No. 1,394,324; Oct. 18.

Matthews, W. N., and Brother. (See Heinrich, Walter A., assignor.)

Mazzi, August, and F. Martini, Vineland, N. J. Device for calibrating transparent tubes. No. 1,394,423; Oct. 18.

Medine, Frank J., assignor of one-half to H. S. Longfellow, Los Angeles, Calif. Cut-out. No. 1,394,207; Oct. 18.

Melvin, Albert L., Detroit, Mich. Anchor-post. No. 1,393,809; Oct. 18.

Menard, Henry J. (See Saxton, A. C., and Menard.)

Mensch, Arthur J., Glenbeulah, assignor of one-half to H. Blanke, Plymouth, Wis. Cheese-holder. No. 1,393,950; Oct. 18.

Mergott, J. E., Company. (See Fuller, Frans A., assignor.)

Merritt & Chapman Derrick & Wrecking Company. (See Chapman, William L., assignor.)

Merritt, James M., Los Angeles, assignor of forty-one per cent. to C. F. Jaques, San Francisco, Calif. Automatic stove or the like. No. 1,394,424; Oct. 18.

Metcalf, Nathan T., Kingston, N. Y. Jar-holder. No. 1,394,105; Oct. 18.

Metsner, Albert W. (See Sherman, J. Q., and Metsner.)

Metsner, Albert W., assignor to The Standard Register Company, Dayton, Ohio. Autographic register. No. 1,394,436; Oct. 18.

Meyer, Friedrich W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Frequency-changer. No. 1,394,325; Oct. 18.

Meyer, John, Gray, Iowa. Control apparatus for tractors. No. 1,394,209; Oct. 18.

Meyer, William, Crystal Lake, Ill. Safety device for automobiles. No. 1,394,437; Oct. 18.

Meyerhols, Rheinier I., Cupertino, Calif. Automobile-robe. No. 1,394,208; Oct. 18.

Meyers, Alfred M. (See Funkhouser, V. E., and Meyers.)

Michot, Georges, Dromara, Ireland, assignor to The Fibre Corporation Limited, London, England. Flax-pulling machine. No. 1,393,951; Oct. 18.

Mikiel, Sabin, Elizabethport, N. J. Portable bed-spring. No. 1,394,326; Oct. 18.

Milkes, Leah G., Minneapolis, Minn. Child's sleeping-garment. No. 1,393,900; Oct. 18.

Miller, Amandus A. (See Evans, F. W., and Miller.)

Miller, Arthur E., Sacramento, Calif. Safety lock mechanism. No. 1,394,327; Oct. 18.

Miller, Charles E., Anderson, Ind. Tire-casing. No. 1,393,952; Oct. 18.

Miller, Edwin S., Massillon, Ohio. Vehicle-drive. No. 1,394,328; Oct. 18.

Miller, Frank J., Wichita Falls, assignor, by mesne assignments, to Frank Miller Plunger Company, Dallas, Tex. Pump-plunger. No. 1,393,953; Oct. 18.

Miller, Frank, Plunger Company. (See Miller, Frank J., assignor.)

Miller, Harry M. (See Bost, W. D., and Miller.)

Mills, James E., St. Louis, Mo. Screwdriver. No. 1,394,438; Oct. 18.

Miller, John A., Tarrytown, N. Y. Oven-wall construction. No. 1,393,954; Oct. 18.

Miller, Louis G., and E. C. Long, Westmont borough, Pa. Cross-tie for railway-cars. No. 1,394,425; Oct. 18.

Miller, William S., San Diego, Calif. Coffee-can and attachment. No. 1,394,210; Oct. 18.

Mischke, Reinhardt C., New York, N. Y. Unhairing-machine. No. 1,393,809; Oct. 18.

Mitchell, John K., Rosemont, Pa. Reclaiming waste leather. No. 1,394,329; Oct. 18.

Momeyer, Aimee H. and G. M., Brooklyn, N. Y. Wheel-rim. No. 1,394,330; Oct. 18.

Momeyer, George M. (See Momeyer, Aimee H. and G. M.)

Monk, Thomas H., Tallahassee, Fla. Cotton-stalk puller. No. 1,393,955; Oct. 18.

Monroe, George A. C., Geneva, Ill. Collapsible bed. No. 1,394,331; Oct. 18.

Monson, Hiemer W. (See Stalley, C. E., Blaser, and Monson.)

Mooney, Frank H., Hinsdale, assignor to C. E. Barrett, Chicago, Ill. End-face grinder. No. 1,393,956; Oct. 18.

Moran, William F., Chicago, Ill., assignor to Y. B. M. Company. Driving mechanism for washing-machines. No. 1,393,957; Oct. 18.

Morehouse, Eugene, assignor to B. A. Ballow & Company, Inc., Providence, R. I. Pin. No. 1,393,901; Oct. 18.

Morgan, John H., Holyoke, assignor of one-third to B. Webster, Springfield, and one-third to C. W. Huntley, Holyoke, Mass. Apparatus for discharging static charges. No. 1,394,211; Oct. 18.

Morgan, Mathew B., Cleveland Heights, assignor to The Cleveland Tractor Company, Euclid, Ohio. Belt-guide for tractors. No. 1,394,106; Oct. 18.

Morrison, Lewis E., Newark, assignor to himself, and S. H. Plum, 2nd, Madison, N. J. Paper separating and feeding mechanism. No. 1,394,161; Oct. 18.

Morrison, Lewis E., Newark, assignor to himself, and S. H. Plum, 2nd, Madison, N. J. Jogger mechanism for printing-presses. No. 1,394,162; Oct. 18.

Morrison, Lewis E., Newark, assignor to himself, and S. H. Plum, 2nd, Madison, N. J. Gripping mechanism for printing-machines. No. 1,394,163; Oct. 18.

Morse, Alfred B., assignor, by mesne assignments, to J. A. Morse, South Easton, Mass. Universal joint. No. 1,394,164; Oct. 18.

Morse, Julia A. (See Morse, Alfred B., assignor.)

Mortimer, Charles G. (See Kimball, W. D., and Mortimer.)

Moss, Charles, assignor to Mesgrip Co., Inc., New York, N. Y. Auxiliary attachment for vehicle-wheels. No. 1,393,819; Oct. 18.

Mesgrip Co. (See Moss, Charles, assignor.)

Mossbacher, Walter, and G. J. Shultz, Mount Vernon, Ohio. Hose-clamp. No. 1,393,811; Oct. 18.

Mountford, Frederick, Northfield, and E. Standen, Small Heath, Birmingham, England. Die-head for screw-cutting. No. 1,394,107; Oct. 18.

Mousseaux, Eugene, Le Mans, France. Stock for single-barreled or double-barreled guns. No. 1,393,812; Oct. 18.

Muck, John, Milwaukee, Wis. Roller-skate. No. 1,393,813; Oct. 18.

Mueller, Herman C., Milwaukee, Wis. Four-pole magneto-generator. No. 1,394,108; Oct. 18.

Munro & Harford Company, The. (See Schulman, David D., assignor.)

Murray, Donald, London, England, assignor to The Western Union Telegraph Company. Code-transposing apparatus for telegraph systems. No. 1,394,439; Oct. 18.

Myer, Claus D., West Hoboken, N. J. Emergency-valve. No. 1,394,332; Oct. 18.

Nadel, Louis D., Newark, N. J., assignor, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Tone-arm. No. 1,394,509; Oct. 18.

Nagy, John, West View, assignor to Pittsburgh Stamp Company, Pittsburgh, Pa. Stamping-machine. No. 1,394,333; Oct. 18.

Nall, Joseph E., and T. P. Henry, Eden, Tex. Plow. No. 1,394,510; Oct. 18.

Narum, Otto, Staunton, Va. Eyeglasses. No. 1,394,100; Oct. 18.

National Aniline & Chemical Co. (See Derick, C. G., Ralph, and Flett, assignors.)

National Binding Machine Company. (See Kimball, W. D., and Mortimer, assignors.)

National Carbon Company. (See Benner, R. C., and French, assignor.)

National Cash Register Company, The. (See Fuller, Frederick L., assignor.)

National Lock Washer Company, The. (See Loutrel, Cyrus H., assignor.)

Nelson, Jan G., Rockford, Ill. Antifriction-bearing. No. 1,394,110; Oct. 18.

Neumann, Samuel, New York, N. Y. Water-motor. No. 1,394,212; Oct. 18.

Newhouse, Ray C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Comminuting-mill. No. 1,394,334; Oct. 18.

Nichols, Harry J., Washington, D. C. Marker-shell. No. 1,394,335; Oct. 18.

Noll, Charles, assignor of one-third to I. A. Reader and one-third to E. C. Reader, Cleveland, Ohio. Plastic composition. No. 1,393,814; Oct. 18.

Nordberg, Carl R., Altoona, and W. F. Koon, Duncansville, Pa. Automatic cylinder-cock. No. 1,394,337; Oct. 18.

Norton Company. (See King, Clarence R., assignor.)

Norton Company. (See Purdy, R. C., Beecher, and Klein, assignors.)

Novick, Abraham, Brooklyn, and E. Fish, New York, assignors to F. L. Smithe, New York, N. Y. Gage. No. 1,394,336; Oct. 18.

Nowack, Charles H., Chicago, Ill., assignor to American Can Company, New York, N. Y. Container. No. 1,393,815; Oct. 18.

Nyman, John O., and J. P. Pearson, Canton, Ohio. Sheet-metal locker. No. 1,394,338; Oct. 18.

O'Connor, James, New York, N. Y. Labeling-machine. No. 1,394,339; Oct. 18.

Oehm, William N., and G. Powell, Michigan City, Ind. Nailing-machine. No. 1,393,816; Oct. 18.

Ohrenstein, Valérie D., Elmhurst, Ill. Infant's garment. No. 1,394,213; Oct. 18.

Oishei, John R., Buffalo, N. Y. Adjustable support or bracket. No. 1,394,440; Oct. 18.

Oldham, Edward L., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Drill-sharpener. No. 1,394,214; Oct. 18.

Olds, Alfred W., Windsor, Conn. Electric switch for operating automobile speed-signals. No. 1,394,111; Oct. 18.

Olshaskie, Benjamin, Pana, Ill. Coffeepot. No. 1,394,040; Oct. 18.

Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Grinder-spindle. No. 1,393,817; Oct. 18.

Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Rectified-tooth hob. No. 1,393,818; Oct. 18.

Onan, David W., Minneapolis, Minn. Magneto-testing machine. No. 1,394,215; Oct. 18.

O'Neill, Frank, Jr., Philadelphia, Pa. Apparatus for decorticating fibrous plants. No. 1,393,819; Oct. 18.

Orcutt, Charles C. (See Reed, Frederic P., assignor.)

Ordal, Albert J., Colton, S. D. Nut-lock. No. 1,393,958; Oct. 18.

Osborne, Frank M., Butte, Mont. Airplane. No. 1,393,820; Oct. 18.

Osbun, Benjamin M., and H. D. Walker, Chicago, Ill., assignors to Benjamin Electric Manufacturing Company. Machine for making tinsel and the like. No. 1,394,340; Oct. 18.

Otsuka, Yeikichi, Tokyo, Japan. Apparatus for concentrating ores by flotation. No. 1,393,821; Oct. 18.

Ouellette, John, New Bedford, Mass. Stop mechanism for looms. No. 1,394,341; Oct. 18.

Overbury, Frederick C., Hillsdale, N. J., assignor to The Flintkote Company, Inc., Boston, Mass. Machine for making shingle-strips. No. 1,394,342; Oct. 18.

Pabst, Josef, Zerich, Switzerland. Safety-holder for neckties. No. 1,394,441; Oct. 18.

Packer, Eben E., New Rochelle, N. Y. Railway snow-dangler. No. 1,394,112; Oct. 18.

Page, Frederick H., assignor to Handley Page Limited, London, England. Wing and similar member of aircraft. No. 1,394,343; Oct. 18.

Page, Frederick H., assignor to Handley Page Limited, London, England. Wing and similar member of aircraft. No. 1,394,344; Oct. 18.

Page, Harry, Newark, Ill. Dumping-wagon. No. 1,394,113; Oct. 18.

Page, Stanley H., San Francisco, and J. B. Struble, Oakland, Calif. Controlling means for motor-temperatures. No. 1,393,902; Oct. 18.

Parker, Horace F. (See Quimby, G. B., and Parker.)

Parker, John B., Brookland, D. C. Electric switch. No. 1,393,822; Oct. 18.

Parker, William H., and G. L. Smyth, Montreal, Quebec, Canada. Sliding door. No. 1,394,216; Oct. 18.

Parkinson, William J., assignor to Eastman Kodak Company, Rochester, N. Y. Press-guard. No. 1,394,501; Oct. 18.

Parret, Milton L., Marshalltown, Iowa. Moving-picture-machine support. No. 1,394,217; Oct. 18.

Parsons, Theodore C., Oak Park, Ill. Blank for insurance-accounting. No. 1,393,823; Oct. 18.

Pearson, John P. (See Nyman, J. O., and Pearson.)

Peecher, Mack, Denver, Colo. Razor-strop. No. 1,394,845; Oct. 18.

Penny, Lonnie T., Raleigh, N. C. Car-door-operating mechanism. No. 1,393,959; Oct. 18.

Penschuck, William R., St. Paul, Minn. Combination pen and brush. No. 1,393,960; Oct. 18.

Peoples, John S., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Apparatus for proportioning streams of fluid. No. 1,393,824; Oct. 18.

Peres, Henry L., Yonkers, N. Y., and T. Veitch, Englewood, N. J. Fountain-pen. No. 1,393,903; Oct. 18.

Perkins, George E., assignor of one-fourth to E. Everett and one-fourth to J. W. McCullough, Atkinson, Ill. Sealing composition for radiators. No. 1,393,961; Oct. 18.

Perryman, Ignatius P., Memphis, Tenn. Attachment for motor-vehicles. No. 1,394,346; Oct. 18.

Pershing, Hazel B., San Francisco, Calif. Piston-ring. No. 1,393,904; Oct. 18.

Petroleum Rectifying Company of California. (See Alden, S. F., and Eddy, assignors.)

Pierson, Robert M., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-calipers. No. 1,394,347; Oct. 18.

Pietrowski, John, Chicago, Ill. Ventilation adjustment for shoe-caps. No. 1,394,348; Oct. 18.

Pinet, William, Vonda, Saskatchewan, Canada. Grain-car door. No. 1,393,962; Oct. 18.

Placek, Joseph Y., assignor of one-half to J. Gullas, Gallup, N. Mex. Condensing apparatus. No. 1,394,502; Oct. 18.

Pittsburgh Stamp Company. (See Nagy, John, assignor.)

Pletcher, Lyle J., Berwyn, Ill., assignor to Figaro Chemical Co., Dallas, Tex. Covering for meats. No. 1,394,849; Oct. 18.

Plum, S. Haines, 2nd. (See Morrison, Lewis E., assignor.)

Porharty, Fredrick, San Francisco, Calif. Valve for rotating drums. No. 1,393,825; Oct. 18.

Poppenhusen, Herman A., Hammond, Ind., and A. P. Strong, Chicago, Ill., assignors to Green Engineering Company, East Chicago, Ind. Valve mechanism for ash-conveying or like systems. No. 1,393,905; Oct. 18.

Potter, Arthur C., Mission, Tex. Orchard-heater or smudge-pot. No. 1,394,218; Oct. 18.

Potter, Frederick D., Linden, N. J., assignor to Combustion Control Company, Inc., New York, N. Y. Means for combustion control. No. 1,393,826; Oct. 18.

Potts, Edwin B., Jersey City, N. J., and A. D. Grover, New York, N. Y., assignors to Autoseles Corporation. Vending-machine indicator. No. 1,393,964; Oct. 18.

Powell, Gomert. (See Oehm, W. N., and Powell.)

Powers, Hines A., Farry, Okla. Excavating-machine. No. 1,394,350; Oct. 18.

Pratt, Arthur D., Short Hills, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Superheater-boiler. (Reissue.) No. 15,210; Oct. 18.

Pribnow, Louis C. W., assignor to P. G. Schilling, Norfolk, Nebr. Lawn-mower. No. 1,394,351; Oct. 18.

Price & Lee Company, The. (See Tarnham, Hubert J., assignor.)

Purdy, Ross C., Buffalo, N. Y.; M. F. Beecher and A. A. Klein, assignors to Norton Company, Worcester, Mass. Bonded article of magnesia and alumina. No. 1,394,442; Oct. 18.

Puritan Manufacturing Corporation. (See Marsico, Gerard R., assignor.)

Purtle, Albert D., Marietta, Ohio. Brass liner stuffing-box head. No. 1,394,114; Oct. 18.

Quimby, George R., and H. F. Parker, Bondsville, Mass. Belt-shipper. No. 1,394,352; Oct. 18.

Quiros, Francisco A., Mexico, Mexico. Oil-burner. No. 1,394,115; Oct. 18.

Raddick, David J., assignor of one-half to Siegfried Graf, San Francisco, Calif. Wheel-lock. No. 1,394,219; Oct. 18.

Ralph, Walter M. (See Derick, C. G., Ralph, and Flett.)

Ramsey, Clifford H., Glen Rock, N. J. Speed-changing unit. No. 1,393,906; Oct. 18.

Ransom, George H., Northfield, Birmingham, England. Adjustable pivot-bearing. No. 1,393,965; Oct. 18.

Raymond, Paul C., U. S. National Army. Recording system and selector mechanism therefor. No. 1,393,443; Oct. 18.

Reader, Edward C., et al. (See Noll, Charles, assignor.)

Reader, Irwin A., et al. (See Noll, Charles, assignor.)

Rearick, Charles B., Covington, Va. Carriage and swivel cutting-head for planers. No. 1,394,443; Oct. 18.

Reed, Frederic P., East Orange, assignor, by mesne assignments, to C. C. Orcutt, Long Branch, N. J. Method of and apparatus for coating paper. No. 1,394,444; Oct. 18.

Reichmann, Fritz, New York, N. Y. Weighing device. No. 1,393,828; Oct. 18.

Reimer, Irving, Seattle, Wash. Floating fish-trap. No. 1,393,907; Oct. 18.

Reinwald, Paul, Menlo Park, Calif. Rake. No. 1,394,353; Oct. 18.

Reiss, Harry H. (See Bruninga, J. H., and Reiss.)

Reliable Knitting Works. (See Joha, Elmer N., assignor.)

Renaudin, Alfred. (See Burlat, A., and Renaudin.)

Renault, Louis. (See Fuchs, Ernest, assignor.)

Rendano, Emil, assignor to Forbes Tubular Products Corporation, Brooklyn, N. Y. Machine for forming tubular bodies. No. 1,394,116; Oct. 18.

Rice, Percy F., Tustin, Calif. Engine-lubricating device. No. 1,394,117; Oct. 18.

Richman, Wallace C., Butte, Mont. Concrete building structure. No. 1,393,966; Oct. 18.

Ringe, John C., Stratford, Conn., assignor to The Singer Manufacturing Company. Multiple-needle sewing-machine. No. 1,394,118; Oct. 18.

Rink, Peter, Cresco, Iowa. Disk-sharpener. No. 1,393,967; Oct. 18.

Rishel, Harry A., Philadelphia, Pa. Temperature-indicator for automobiles. No. 1,393,968; Oct. 18.

Rits, Frank, and J. H. Brook, assignor to The Sun Electro Works, Toronto, Ontario, Canada. Washing-machine. No. 1,393,969; Oct. 18.

Rivet-O Manufacturing Company. (See Harris, Carl C., assignor.)

Roach, Mahlon H. (See Blodgett, W. G., and Roach.)

Robbins, Evelyn, Richmond, Calif. Irrigating device. No. 1,394,041; Oct. 18.

Robert, Joseph C., Jr., Agricultural College, Miss. Lamp-wick regulator. No. 1,394,354; Oct. 18.

Roberts, James H., Charleston, S. C. Geometrical tool. No. 1,393,970; Oct. 18.

Roberts, William, Winnipeg, Manitoba, Canada. Baking-oven. No. 1,394,220; Oct. 18.

Robinson, Boyden C., Long Lake, N. Y. Belt-fastener. No. 1,394,355; Oct. 18.

Robinson, Harold E., and R. M. Van Cleve, Lockport, N. Y. Display device for automobile license-plates. No. 1,393,971; Oct. 18.

Roby, Edmund T., assignor of one-half to T. C. Buxton, Decatur, Ill. Carbureter. No. 1,394,356; Oct. 18.

Rockwell, Byrd C., Camden, Ark. Skeleton core for veneering. No. 1,394,119; Oct. 18.

Rockwell, Byrd C., Camden, Ark. Veneered flooring-lumber and manufacturing same. No. 1,394,120; Oct. 18.

Rogers, Arthur R., Jonesport, Me., assignor to American Can Company, New York, N. Y. Fish-cutting machine. No. 1,394,185; Oct. 18.

Rogers, Charles O., William Penn, Pa. Egg testing and sorting machine. No. 1,394,445; Oct. 18.

Rolkjer, Andrew H., Boise, Idaho. Camera. No. 1,393,829; Oct. 18.

Ronning, Adolph. (See Ronning, Andrean G. and A.)

Ronning, Andrean G. and A., Minneapolis, Minn. Tractor-truck. No. 1,393,972; Oct. 18.

Rook, James A. (See De Long, W. W., and Rook.)

Rose, Thomas, Philadelphia, Pa. Gear-shift lock. No. 1,394,357; Oct. 18.

Rosenfeld, Mortimer C., Cleveland, Ohio. Pipe-bending tool. No. 1,393,830; Oct. 18.

Rosick, Joseph, Dawson, N. Mex. Cushion-tire for vehicle-wheels. No. 1,394,358; Oct. 18.

Ross, David E., assignor to Ross Gear & Tool Company, La Fayette, Ind. Steering-gear. No. 1,393,973; Oct 18.

Ross, David E., assignor to Ross Gear & Tool Company, La Fayette, Ind. Steering-gear. No. 1,393,974; Oct. 18.

Ross Gear & Tool Company. (See Ross, David E., assignor.)

Rossendale-Reddaway Belting & Hose Co., The. (See Jackson, Isaac S., assignor.)

Rossman, Allen M., Wilmette, Ill. Internal-combustion engine. No. 1,393,831; Oct. 18.

Rowland, Andrew J., assignor to The Federal Products Company, Cincinnati, Ohio. Coating and impregnating agent and making it. No. 1,393,832; Oct. 18.

Rowland, Andrew J., assignor to The Federal Products Company, Cincinnati, Ohio. Coating and impregnating agent and making it. No. 1,393,833; Oct. 18.

Rowley, Frank, London, England. Lining for garments and analogous purposes. No. 1,393,975; Oct. 18.

Rudolph, Walter L., assignor to The Imperial Boiler Scouring Company, Chicago, Ill. Apparatus for pressure compounds. No. 1,304,220; Oct. 18.

Sabo, Frank. (See Lee, Frank, assignor.)

Saltzer, Louis, Vallejo, Calif. Vise-operator. No. 1,304,304; Oct. 18.

Saltzer, Andrew. (See Sheak, A. M., and Saltzer.)

Saltzer, Louis. (See Sheak, A. M., and Saltzer.)

Sanitary Products Corporation of America. (See Bradley, George P., assignor.)

Sapper, Ralph J., Los Angeles, Calif., assignor to Wilson & Company, Chicago, Ill. Salting device. No. 1,304,221; Oct. 18.

Saul, Anton H., Welby, Colo. Mechanical attachment. No. 1,303,977; Oct. 18.

Saulsberry, Joseph, Peoria, Ill. Cushion-tire. No. 1,303,940; Oct. 18.

Saunders, Benjamin P., Weston, Mo. Oil-can. No. 1,303,978; Oct. 18.

Saxton, Augustus C., and H. J. Menard, assignors to H. B. Manufacturing Company, Chicago, Ill. Lost-for controlling levers. No. 1,304,300; Oct. 18.

Sayre, George, Orleans, Ind. Table. No. 1,304,222; Oct. 18.

Schechter, Joseph, Brooklyn, N. Y. Lock mechanism. No. 1,303,835; Oct. 18.

Schiffert, Daniel M., assignor to S. B. Condit, Jr., Boston, Mass. Electric switch. No. 1,303,836; Oct. 18.

Schilling, Paul G. (See Prifrecr, Louis C. W., assignor.)

Schlater, Ivanhoe H., Pittsfield, Mass., assignor to General Electric Company. Electrical apparatus. No. 1,304,121; Oct. 18.

Schmidgall, Frederick, Cincinnati, Ohio. Latch mechanism. No. 1,304,126; Oct. 18.

Schneider, William A., Glen Ridge, N. J. Safety device for clothes-wringers. No. 1,304,260; Oct. 18.

Schneider & Cie. (See Schneider, Eugène, assignor.)

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Telemotor. No. 1,303,837; Oct. 18.

Schoemert, Carl, Newark, N. J. Lock-washer. No. 1,303,910; Oct. 18.

Schorpp, Jean M., Easton, Pa. Ornamental rope covering for furniture and other articles. No. 1,304,361; Oct. 18.

Schulman, David D., deceased, Brooklyn; F. E. Schulman, administratrix, assignor to The Munro & Harford Company, New York, N. Y. Letter-sheet. No. 1,304,382; Oct. 18.

Schulman, Florence E., administratrix. (See Schulman, David D.)

Schumaker, Lawrence A., Michigan City, Ind. Automobile-door latch. No. 1,303,911; Oct. 18.

Schweinfurth, Lokomotiv & Maschinenfabrik. (See Wladerkehr, Hans, assignee.)

Scollan, John J., Newark, N. J. Releasing device for launching-cradles. No. 1,304,223; Oct. 18.

Scott, Milton D., Kewanee, Ill. Rolling crutch. No. 1,304,224; Oct. 18.

Scott, Sibyl A., New York, N. Y. Block-pack. No. 1,304,303; Oct. 18.

Scullin Steel Co. (See Doerr, Harry E., assignor.)

Searle, Elbert H., Bridgeport, Conn. Firing mechanism. No. 1,303,912; Oct. 18.

Sebree, Charles H., and G. C. Berlin, Caldwell, Idaho. Deflation-alarm for tires. No. 1,304,304; Oct. 18.

Seibert, Albert E., Frankfort, Mich. Extension-step. No. 1,304,305; Oct. 18.

Seidler, Alexander, assignor to F. C. Austin, Chicago, Ill. Oil-gas-making apparatus. No. 1,304,446; Oct. 18.

Seward, Hyram L., and E. E. Hale, Kansas City, Mo. Fuel cut-out and compression-release for gas-engines. No. 1,303,838; Oct. 18.

Shannon, Henry F., Moose, Saskatchewan, Canada. Transmission. No. 1,304,122; Oct. 18.

Sharp, George M., Washington, D. C. Headdress. No. 1,304,306; Oct. 18.

Sheak, Adolphus M., and A. and L. Saltzer, Calexico, Calif.; said A. Saltzer and said L. Saltzer assignors of one-sixth of the entire right to said Sheak. Wrench. No. 1,304,225; Oct. 18.

Sheak, Adolphus M., and A. and L. Saltzer, Calexico, Calif.; said A. Saltzer and said L. Saltzer assignors of one-sixth of the entire right to said Sheak. Wrench. No. 1,304,226; Oct. 18.

Shenton, James H., Nashua, N. H. Heating or ventilating register. No. 1,304,227; Oct. 18.

Sheridan, James B., Pittsburgh, Pa. Burner. No. 1,304,228; Oct. 18.

Sherman, John Q., and A. W. Metzner, Dayton, Ohio; said Metzner assignor to said Sherman. Autographic register. No. 1,304,447; Oct. 18.

Sheold, Mark, assignor to Armour Fertilizer Works, Chicago, Ill. Phosphate-rock-calcining process. No. 1,303,839; Oct. 18.

Sheold, Mark, assignor to Armour Fertilizer Works, Chicago, Ill. Apparatus for calcining phosphate rock. No. 1,303,840; Oct. 18.

Short, Charles E., assignor to General Motors Company, Detroit, Mich. Hydrocarbon-motor. No. 1,303,913; Oct. 18.

Short, Charles E., assignor to General Motors Company, Detroit, Mich. Hydrocarbon-motor. No. 1,303,914; Oct. 18.

Showalter, Roy C., Altoona, Pa. Measuring instrument. No. 1,304,229; Oct. 18.

Shults, Gordon J. (See Mossholder, W., and Shultz.)

Shultz, Gordon J., and Mossholder, W., Flint, Mich. Fastener for spoken bolts. Reissue 12,787; Oct. 18.

Siebenthal, Carl E., Chicago, Ill., assignor to Consulting Motor Co. [illegible]. No. 1,304,307; Oct. 18.

Siemens, Alexander, Berlin, Germany. Resistance material. No. 1,304,123; Oct. 18.

Simmons, Frank A., Chicago, Ill. Forming blocks of cheese. No. 1,303,915; Oct. 18.

Simpson, George W., Hanover, Ohio. Tube-cutting device. No. 1,304,124; Oct. 18.

Sims, Reuben H., Gilbert, Ala. Cultivator attachment. No. 1,304,307; Oct. 18.

Singer Manufacturing Company, The. (See Allen, Edward B., assignor.)

Singer Manufacturing Company, The. (See Finch, John C., assignor.)

Singer Manufacturing Company, The. (See Ringe, John C., assignor.)

Sittney, Massey, Brooklyn, N. Y. Clutch mechanism. No. 1,304,443; Oct. 18.

Skelly, John S., Monongahela, Pa., assignor to Combustion Engineering Corporation, New York, N. Y. Stoker-furnace. No. 1,304,979; Oct. 18.

Slater, Guy P., Tulsa, Okla. Derrick. No. 1,303,842; Oct. 18.

Smidth, F. L., & Co. (See Fasting, Johan E., assignor.)

Smith & Watson Iron Works. (See Sullivan, A. C., and Gill, assignors.)

Smith, Charles P., New York, N. Y. Mail-bag exchange. No. 1,303,909; Oct. 18.

Smith, Edwin C., et al., executors. (See Wardwell, Simon W.)

Smith, Frank W., assignor of one-half to The Enfield Cycle Company Limited, Redditch, England. Oil-pump for internal-combustion engines. No. 1,304,042; Oct. 14.

Smith, Harry F., assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Gas generation. No. 1,304,043; Oct. 18.

Smith, Herbert T., Toronto, Ontario, Canada. System of transportation control. No. 1,304,363; Oct. 18.

Smith, Joseph H., Denver, Colo. Garment holder or hanger. No. 1,303,843; Oct. 18.

Smith, Theodore C., Philadelphia, Pa. Luminous pile. No. 1,304,440; Oct. 18.

Smith, William B., Norwood, assignor to The Cavcorna-Victor Company, Cincinnati, Ohio. Dies for drawing and upsetting metal forms. No. 1,303,916; Oct. 18.

Smithe, Ferdinand L. (See Novick, A., and Fish, assignors.)

Smyth, George L. (See Parker, W. H., and Smyth.)

Snell, Lyle R., assignor to Cadillac Motor Car Company, Detroit, Mich. Air-flow-controlling mechanism for internal-combustion-engine radiators. No. 1,303,917; Oct. 18.

Snyder, William P. (See Adair, M., and Snyder.)

Soana, Cyril A., Chicago, Ill., assignor, by mesne assignments, to Acme Card System Company. Listing device. No. 1,304,231; Oct. 18.

Spencer, Wilfred L., Edinburgh, Scotland. Steering mechanism for vehicles. No. 1,303,961; Oct. 18.

Sperry, Elmer A., Brooklyn, N. Y. Observation apparatus for submarines. No. 1,303,844; Oct. 18.

Sperry, Elmer A., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Gyroscope. No. 1,303,845; Oct. 18.

Sperry Gyroscope Company, The. (See Sperry, Elmer A., assignor.)

Spinello, Mathew, Kansas City, Mo. Elevator-hatchway-door-operating device. No. 1,303,918; Oct. 18.

Splitdorf Electrical Company. (See McKeown, Samuel C., assignor.)

Sprague Canning Machinery Company. (See Colbert, Clarence F., assignor.)

Sprague Canning Machinery Co. (See Lowe, Harry W., assignor.)

Sprague, Horace M., Denver, Colo. Quick-adjustment wrench. No. 1,304,309; Oct. 18.

Springer, John. (See Dickinson, F. S., and Springer.)

Stafford Company, The. (See Jackson, Simeon S., assignor.)

Stanley, Charles E., R. H. Blaser, and H. W. Monson, Portsmouth, Ohio. Transmission mechanism. No. 1,304,125; Oct. 18.

Standard Food Products Company. (See MacLachlan, John C., assignor.)

Standard Register Company. (See Metzner, Albert W., assignor.)

Standen, Robert. (See Mountford, F., Standen.)

Stanforth, Richard, and L. A. Angle, assignors to Art In Buttons, Inc., Rochester, N. Y. Button-blank gage. No. 1,303,846; Oct. 18.

Stanbery, Lestis, assignor of one-half to O. F. Decker, Enid, Okla. Corset-top pad. No. 1,304,370; Oct. 18.

Stebbings, Eugene. (See Meines, Iowa. Coupon system. No. 1,304,302; Oct. 18.

Steele, Archie W., Bloomfield, assignor to W. J. Hawkins, Montclair, N. J. Electric fuze. No. 1,303,963; Oct. 18.

Stephens, Howard O., Pittsfield, Mass., assignor to General Electric Company. Water-cooled transformer. No. 1,304,044; Oct. 18.

Stevens, Arthur, Buffalo, N. Y. Separating partly miscible compounds. No. 1,304,232; Oct. 18.

Stevens, Horace D. (See Maranville, H. F., and Stevens.)

Steward Davit & Equipment Corporation. (See Hills, Harry B., assignor.)

Stirling, George, East Chicago, Ind. Cleaner. No. 1,303,847; Oct. 14.

Stoltz, Joseph, Rubber Company. (See Boyer, Harry L., assignor.)

Stoll, Arthur, assignor to Chemical Works, assembly Sanders, Bessel, and Hamburg, all in Germany. Preparation of urea and barbituric acid. No. 1,304,233; Oct. 18.

Stone, Clarion, Detroit, Mich. Gear-wheel. No. 1,304,127; Oct. 18.

Stone, Martin J., St. Louis, Mo. Phonograph. No. 1,303,919; Oct. 18.

Strauss, Albert A., New York, N. Y. Machine for slitting tear and other fasteners. No. 1,304,371; Oct. 18.

Streeb, Arthur J., Seattle, Wash. Windshield. No. 1,304,045; Oct. 18.

Strickland, William P., Chicago, Ill. Nipple-grip. No. 1,303,920; Oct. 18.

Strits, Charles P., Minneapolis, Minn. Bread-toaster. No. 1,304,309; Oct. 18.

Strong, Arthur P. (See Pappenheimer, H. A., and Strong.)

Strong, Edwin H., New York, N. Y. Neck-tie-stretcher. No. 1,303,848; Oct. 18.

Struble, Joseph B. (See Page, S. H., and Struble.)

Submarine Signal Company. (See Tannenberg, Reginald A., assignor.)

Sullivan, Alan C., and J. W. Gill, Portland, Oreg., assignors to Smith & Watson Iron Works. Two-speed street-drive internal-engine. No. 1,304,451; Oct. 18.

Sullivan, Charles A., Detroit, Mich. Wheel. No. 1,303,972; Oct. 18.

Sun Electro Works, The. (See Ritz, F., and Brock, assignors.)

Swanel Packing Company. (See Wolf, Henry N., assignor.)

Swab, Herbert H., Grand Rapids, Mich. Tire. No. 1,304,049; Oct. 18.

Swaney, Clarence B., Los Angeles, Calif. Rear light for automobiles and the like. No. 1,304,046; Oct. 18.

Swain, Henry C., Spokane, Wash., assignor to G. B. Lewis Company, Watertown, Wis. Electrical interrupting-knife. No. 1,303,921; Oct. 18.

Swain, Sydney C., Richmond, Va., assignor to Eastman Kodak Company, Rochester, N. Y. Camera. No. 1,304,047; Oct. 18.

Swain, Sydney C., Richmond, Va., assignor to Eastman Kodak Company, Rochester, N. Y. Reel-actuating device for cameras and the like. No. 1,304,048; Oct. 18.

Swanson, John, assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Camera-shutter. No. 1,303,963; Oct. 18.

Taft Carburetor Company, The. (See Taft, Walter H., assignor.)

Taft, Walter H., Providence, R. I., assignor to The Taft Carburetor Company, Hartford, Conn. Carburetor. No. 1,304,050; Oct. 18.

Taletta, Carmine, Clementon, Pa. Changeable indicator. No. 1,304,324; Oct. 18.

Tamarin, Abraham and F. T., and M. Hendler, assignors to Komfytite Spring and Bed Corporation, Hudson, N. Y. Fastening. No. 1,304,311; Oct. 18.

Tamarin, Abraham and F. T., and M. Hendler, assignors to Komfytite Spring and Bed Corporation, Hudson, N. Y. Adjustable Bedstead. No. 1,304,312; Oct. 18.

Tamarin, Frank. (See Tamarin, Abraham and F., and Hendler.)

Tate-Smith, Mary D., West Orange, N. J. Bracelet. No. 1,304,235; Oct. 18.

Taylor, Edwin N., Cedar Rapids, Iowa. Ladder-support. No. 1,304,325; Oct. 18.

Taylor, George L., Rochester, N. Y. Graduating-machine. No. 1,303,923; Oct. 14.

Taylor, Raymond E., Rochester, N. Y. Dental X-ray-film packet. No. 1,304,236; Oct. 18.

Tellefsen, Karl E., Brooklyn, N. Y. Reversing mechanism for chains. No. 1,304,373; Oct. 18.

Thackray, George E., Westmont Borough, Pa. Draft-rigging. No. 1,304,374; Oct. 18.

Thalerath, Joseph C., assignor of one-third to W. D. Graf, Lakewood, Ohio. Signature-collecting mechanism. No. 1,303,924; Oct. 18.

Thomas, Thomas H., Edgewood, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Empty and load brake. No. 1,304,049; Oct. 18.

Thompson, Alan C. (See Coulan, George A., assignor.)

Thompson, Albert E., assignor to Anderson-Baragrover Mfg. Co., San Jose, Calif. Filling-valve for syrupers. No. 1,304,455; Oct. 18.

Thompson, Arthur T., Hightstown, N. J. Tuft-yarn spring-clip. No. 1,304,050; Oct. 18.

Thompson, Theodore F., Astoria, S. D. Sprayer attachment for cultivators. No. 1,303,850; Oct. 18.

Thomson, Herbert G. (See Ewald, F. W., and Thomson.)

Thorndike, Herbert A., Washington, D. C. Jack. No. 1,303,851; Oct. 18.

Tierney, John W., Ashtree, and F. Hills, Upton, London, England. Pneumatic drilling-machine. No. 1,303,852; Oct. 18.

Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Lens. No. 1,303,853; Oct. 18.

Tiselli, Casten I., Stockholm, Sweden. Explosive and manufacturing it. No. 1,303,964; Oct. 18.

Togane, Meijire, Tokyo, Japan. Quick method for brewing soy. No. 1,304,236; Oct. 18.

Tomlinson, Tori, Lake City, S. D. Jack. No. 1,304,378; Oct. 18.

Torbit, Milan M., West Somerville, assignor of one-half to L. Bassett, Boston, Mass. Distributer-head. No. 1,303,971; Oct. 14.

Townsend, Harry T., Brentwood, N. Y. Closure. No. 1,304,129; Oct. 18.

Townshend, Aaron E., Jr., Washington, D. C. Direction-indicator. No. 1,303,854.

Traction Engine Company. (See Helmig, John O., assignor.)

Trent & Hine Mfg. Co., The. (See Wardner, Oel E., assignor.)

Tregurtha, Titus. (See Grimes, Charles J., assignor.)

Trenton Potteries Company. (See Hinchliffe, W. H., and Lansing, assignees.)

Tripp, Henry C., Auburn, N. Y. Windshield-cleaner. No. 1,304,052; Oct. 18.

Tripp, Henry C., Auburn, N. Y. Windshield-cleaner. No. 1,304,053; Oct. 18.

Trostrup, Harry, Fairhaven, assignor to Alestrup Machine Company, Boston, Mass. Polishing roll-section for coating-machines. No. 1,304,054; Oct. 18.

Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Lamp-voltage regulator. No. 1,303,855; Oct. 18.

Turner, Ernest J. (See Howard, B. H., and Turner.)

Turtlehill, James B. (See Wallace, G. T., and Turtlehill.)

U. S. Light & Heat Corporation. (See Bliss, William L., assignee.)

U. S. Light & Heat Corporation. (See Turbayne, William A., assignor.)

United Enterprises Limited. (See Bentley, Alfred D., assignor.)

United Shoe Machinery Corporation. (See Hurd, George H., assignee.)

United Shoe Machinery Corporation. (See Johnson, Morton E., assignor.)

Upright, Ernest T., Fresno, Calif., assignor of one-half to R. W. Upright. Measuring device for semiliquids. No. 1,303,856; Oct. 18.

Upright, Robert W. (See Upright, Ernest T., assignor.)

Urbano, Faustino B., New York, N. Y. Rotary jack for vehicles. No. 1,304,376; Oct. 18.

Utley, Thomas, Liverpool, England. Ship's light. No. 1,303,857; Oct. 18.

V. B. M. Company. (See Moran, William F., assignor.)

Velade, Hector B., Kautskee, Ill. Non-freezable window. No. 1,304,237; Oct. 18.

Velsley, Caroline P., Bradford, Pa. Burner for gas and oil. No. 1,304,377; Oct. 18.

Van Cleve, Raymond M. (See Robinson, H. E., and Van Cleve.)

Van Doorn, Anthonius M., assignor to American Thermophone Company, Boston, Mass. Making thermophone elements. No. 1,304,454; Oct. 18.

Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Register. No. 1,304,455; Oct. 18.

Veeder Manufacturing Company, The. (See Crosby, Edward H., assignor.)

Veeder Manufacturing Company, The. (See Veeder, Curtis H., assignor.)

Veitch, Thomas. (See Peres, H. L., and Veitch.)

Velliett, Louis, P. H. Lévesque, and J. Barnes, New Bedford, Mass. Thread-tensioning means. No. 1,303,926; Oct. 14.

Verlooye, Edmund, Bad Axe, Mich. Automobile-bumper. No. 1,304,238; Oct. 18.

Vetter, Philip J. C., Brooklyn, N. Y. Clothesline-bracket. No. 1,304,239; Oct. 18.

Vitturo, Marcellino. (See Anselmi, C., and Vitturo.)

Vonderheide, Richard, Toledo, Ohio. Wire-coiling apparatus. No. 1,304,379; Oct. 18.

Vouigre, André J. D. F., Bayonne, France. Unwinding apparatus. No. 1,303,965; Oct. 14.

Walker, Charles, assignor to M. Hartman, New York, N. Y. Portable electric light. No. 1,303,858; Oct. 18.

Wachter, Carl O., Wheeling, W. Va. Machine for wrapping articles. No. 1,304,240; Oct. 18.

Wade, Frank E., assignor to Wade Manufacturing Company, Camden, N. J. Auxiliary sparking unit for spark-plugs. No. 1,304,426; Oct. 18.

Wade Manufacturing Company. (See Wade, Frank E., assignor.)

Wagner, Edward A. (See Coolidge, W. D., and Wagner.)

Wagner Engineering Company, The. (See Doty, Walter G., assignor.)

Wainwright, Frank B., Jersey City, N. J. Checking-machine. No. 1,304,379; Oct. 18.

Walker, Harry D. (See Osbun, B. M., and Walker.)

Wallace, George T., and J. E. Twitchell, Detroit, Mich. Antiskid-chain. No. 1,303,966; Oct. 18.

Walley, Kenneth M., Chicago, Ill. Synchroniser for talking motion-pictures. No. 1,303,859; Oct. 18.

Walther, George, assignor to The Dayton Steel Foundry Company, Dayton, Ohio. Traction-wheel. No. 1,303,927; Oct. 18.

Walther, George, and P. W. Klinger, assignors to The Dayton Steel Foundry Company, Dayton, Ohio. Steel truck-wheel. No. 1,303,928; Oct. 18.

Wampler, John W., Wichita, Kans. Gas service-pipe. No. 1,303,967; Oct. 18.

Wanat, John, Pittsburgh, Pa. Combination toy. No. 1,304,456; Oct. 18.

Wardner, Oel B., assignor to The Trent & Hite Mfg. Company, New Britain, Conn. Buckle. No. 1,304,289; Oct. 18.

Wardwell, Simon W., deceased, Providence, R. I.; C. V. J. Christensen, R. C. Smith, A. A. Armington, and W. W. Barnaby, executors. Polishing stand, steel, or other like article. No. 1,304,261; Oct. 18.

Warner, Charles K., Oakmont, Pa. Wire-reel. No. 1,304,223; Oct. 18.

Weatherill, Ambrose, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Apparatus for attaching tire-bases to rims. No. 1,304,156; Oct. 18.

Weber, Emil, Schwarmitz, Saxonia. Producing pastes that may be poured. No. 1,304,241; Oct. 18.

Webster, Bertha, et al. (See Morgan, John H., assignee.)

Webster, Thomas M. (See Lovell, Christopher H., assignor.)

Weeks, Edward C., Jackson, Mich. Machine for coating or covering material. No. 1,303,980; Oct. 15.

Weierhauser, Henry J., Stockton, Calif. Filling engine gas-tanks. No. 1,304,261; Oct. 18.

Weierhauser, Henry J., Stockton, Calif. Separator for suction fuel-tank-filling systems. No. 1,303,963; Oct. 15.

Weismann, John L., St. Louis, Mo. Seal. No. 1,303,963; Oct. 15.

Weir, John B., Vancouver, British Columbia, Canada. Dogging mechanism for sawmills. No. 1,304,128; Oct. 15.

Weir, Joseph A., Memphis, Tenn. Refrigerator. No. 1,303,929; Oct. 15.

Weiss, Carl R., Cincinnati, Ohio. Bottle-filling valve. No. 1,303,804; Oct. 15.

Wells, Harry L., Chicago, Ill. Blank for periodical subscriptions. No. 1,303,965; Oct. 15.

West Steel Casting Company, The. (See McGlynn, Joseph B., assignor.)

Western Electric Company. (See Clausen, Henry P., assignor.)

Western Union Telegraph Company, The. (See Murray, Donald, assignor.)

Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)

Westinghouse Air Brake Company. (See Thomas, Thomas H., assignor.)

Westinghouse Air Brake Company, The. (See Weernley, Harry F., assignor.)

Wheat, William G., Kansas City, Mo. Undermining attachment for motor-vehicles. No. 1,304,242; Oct. 15.

Whisler, Ralph E., assignor to Essex Motors, Detroit, Mich. Spark-plug coil. No. 1,303,940; Oct. 15.

White, Jessee M., Philadelphia, Pa. Locking device. No. 1,303,867; Oct. 15.

White, William C., Schenectady, N. Y., assignor to General Electric Company. Resistance-unit terminal. No. 1,304,055; Oct. 15.

White, William C., Schenectady, N. Y., assignor to General Electric Company. Signaling system. No. 1,304,056; Oct. 15.

Whitmore, Henry G., Newburyport, Mass. Faucet-holder attachment. No. 1,304,353; Oct. 15.

Whitney, George E., Bridgeport, Conn. Press. No. 1,304,455; Oct. 15.

Whitten, Mahlon A., Mars Hill, Me. Automobile-track chain. No. 1,304,334; Oct. 15.

Whitten, Stahl A. (See Ballman, Edwin C., assignor.)

Wickersham, Alfred E., Oakland, Calif. Gear-puller. No. 1,304,129; Oct. 15.

Wiechert, Frank T., Lakewood, assignor of one-half to G. W. Wise, Cleveland, Ohio. Soda-fountain. No. 1,304,130; Oct. 15.

Wiedenbar, Hans, Zurich, assignor to Schweizerische Lokomotiv- & Maschinenfabrik, Winterthur, Switzerland. Reversing-gear for internal-combustion engines. No. 1,304,243; Oct. 15.

Wiese, Edwin C., Milwaukee, Wis. Belt-forming drum. No. 1,304,457; Oct. 15.

Wile, Solomon, Rochester, N. Y. Slicing-machine. No. 1,303,863; Oct. 15.

Willard, Charles F., New York, assignor to L-W-F Engineering Company, Inc., College Point, Long Island, N. Y., a corporation of Delaware. No. 1,304,409; Oct. 15.

Willard, Charles F., New York, assignor, by mesne assignments, to L-W-F Engineering Company, Inc., College Point, Long Island, N. Y. Passage construction. No. 1,304,459; Oct. 15.

Williams, David. (See Blaney, T., and Williams.)

Williams, J. E. (See Ballenger, Daniel, assignor.)

Williams, Lewis F. V., Whiteland, Ind. Signal device for railway-crossings. No. 1,304,333; Oct. 15.

Wilson, Howard A., Westend, N. J. Christmas-tree stand. No. 1,304,209; Oct. 15.

Wilson & Company. (See Sapper, Ralph J., assignor.)

Wilson, Dalton K., Waterloo, Iowa. Shearing mechanism for cultivators. No. 1,304,060; Oct. 15.

Wilson, Frederick D., Moline, Ill. Transmission device. No. 1,303,870; Oct. 15.

Wilson, Hal F., Detroit, Mich. Draft appliance for stoves and furnaces. No. 1,304,537; Oct. 15.

Wilson, Samuel J., Roberts, assignor of one-half to P. Hanley, Clyde, Idaho. Beet-topping apparatus. No. 1,303,971; Oct. 15.

Winans, Jay R., South Bend, Ind. Fried-cake forming and cutting machine. No. 1,303,972; Oct. 15.

Wirt & Knox Mfg. Co. (See Wirt, Reuben D., assignor.)

Wirt, Reuben D., assignor to Wirt & Knox Mfg. Co., Philadelphia, Pa. Hose-banding device. No. 1,303,983; Oct. 15.

Wise, George W. (See Wiechert, Frank T., assignor.)

Wisenberg, Don C. and W., Peru, Ind. Jar-wrench. No. 1,304,332; Oct. 15.

Wisenberg, Wilbur. (See Wisenberg, Don C. and W.)

Witteberger, Ettienne, Carnegie, Pa., assignor to Witteberger Heating Appliances Company, Combination radiator-stove. No. 1,304,320; Oct. 15.

Witteberger, Ettienne, Carnegie, Pa., assignor to Witteberger Heating Appliances Company, Collapsible heating-stove. No. 1,304,330; Oct. 15.

Witteberger Heating Appliances Company. (See Witteberger, Ettienne, assignor.)

Weernley, Harry F., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electric coupling device. No. 1,304,057; Oct. 15.

Wolfe, Elijah K., Paducah, Ky. Grate-shaker bar. No. 1,303,980; Oct. 15.

Wolf, Henry N., Oroville, assignor to Sunical Packing Company, San Francisco, Calif. Preserving olives. No. 1,303,873; Oct. 15.

Wollaeza, Jacob F., Lockwood, Calif. Reversing-gear. No. 1,304,131; Oct. 15.

Woodling, Miner D., Kansas City, Mo. Radiator-bracket. No. 1,303,874; Oct. 15.

Woodman, George A., Chicago, Ill. Hand-brake for railway-cars. No. 1,304,056; Oct. 15.

Woodworth, Howard P., Bay City, Mich. Oiling system. No. 1,303,875; Oct. 15.

Woolsey, Nicholas L., New York, N. Y. Dental-cotton holder and waste-receiver. No. 1,304,391; Oct. 15.

Wright, Lucy W., Elkhart, Ind. Vehicle. No. 1,303,876; Oct. 15.

Yanochowski, George A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Electrical switch. No. 1,304,132; Oct. 15.

Yonkin, Herman, Newark, N. J. Wheel. No. 1,304,461; Oct. 15.

Zavagno, Alfred N., San Francisco, Calif. Apparatus for edging tiles and like. No. 1,304,393; Oct. 15.

Zimmerman, John, Jamaica, N. Y. Shelf-adapter. No. 1,304,123; Oct. 15.

Zuber, Camo M., assignor of one-half to J. J. Davies, Jr., Philadelphia, Pa. Indent hardness-gage. No. 1,303,966; Oct. 15.

Zubryd, Antoni, Jersey City, N. J. Musical rocking-chair. No. 1,304,396; Oct. 15.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Allen, Grosvenor N., Oneida, N. Y. Handle for a spoon, knife, fork, or analogous utensil. No. 59,401; Oct. 18.

Beach, Harry L., Coshocton, Ohio. Match-box holder. No. 59,402; Oct. 18.

Bennett, Oliver E., New York, N. Y. Combined bottle-opener and door-lock. No. 59,403; Oct. 18.

Bergstrom, Cuthbert C., Denver, Colo. Toe-plate for the running-boards of automobiles. No. 59,404; Oct. 18.

Bernstein, Morton, New York, N. Y. Handle for spoons, forks, or similar articles. No. 59,405; Oct. 18.

Blhr, Alphonse, Brooklyn, N. Y. Plate or similar article. No. 59,406; Oct. 18.

Brown, Louis O., Toledo, Ohio. Oil-can. No. 59,407; Oct. 18.

Byers, Firm B., New York, N. Y. Collar-clasp. Nos. 59,408–9; Oct. 18.

Cailliet, Clyde C. (See Cailliet, Lucius L. and C. C.)

Cailliet, Lucius L., Riverside, Calif., and C. C. Cailliet, Johnstown, Colo. Rivet-punch. No. 59,410; Oct. 18.

Cellier, Jean. (See Romeo-Cuillies, A., and Cellier.)

Chuan, Charles J., et al. (See Parker, Ralph D., assignor.)

Dahl, Thure, New York, N. Y., assignor to Lightolier Company. Support-plate for lighting-fixtures. Nos. 59,411–12; Oct. 18.

Dahl, Thure, New York, N. Y., assignor to Lightolier Company. Socket-cover for lighting-fixtures. Nos. 59,413–14; Oct. 18.

Dahl, Thure, New York, N. Y., assignor to Lightolier Company. Fixture-arm for lighting-fixtures. No. 59,415; Oct. 18.

Findlay, Robert Manufacturing Co. (See Kostuszewski, Stephen, assignor.)

Finger, Max, Chicago, Ill. Cake of soap. No. 59,416; Oct. 18.

Goodyear Tire & Rubber Company, The. (See Trogner, Roland S., assignor.)

Graham, David F., assignor to Graham Roller Bearing Company, Coudersport, Pa. Socket-wrench. No. 59,417; Oct. 18.

Graham Roller Bearing Company. (See Graham, David F., assignor.)

Grow, George, assignor to George Grow Tire Company, Boston, Mass. Tire for motor-vehicles. No. 59,418; Oct. 18.

Grow, George, Tire Company. (See Grow, George, assignor.)

Haworth & Dewhurst. (See Haworth, Riddle D., assignor.)

Haworth, Riddle D., assignor to Haworth & Dewhurst, Limited, Pittsburgh, Pa. Flying toy. No. 59,419; Oct. 18.

Heddon's, James, Sons, Inc. (See Smith, Fillmore M., assignor.)

Hillebrecht, August G., Jr., Jersey City, N. J. Ice-box-door cleat. No. 59,420; Oct. 18.

Howard, Ira T., Canton, Ohio. Planing-machine frame. No. 59,421; Oct. 18.

Johnson, Charles S., Toledo, Ohio. Tread-belt link. No. 59,422; Oct. 18.

King, Clifford G., Providence, R. I. Advertising-sign. No. 59,423; Oct. 18.

Kostuszewski, Stephen, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Arm for lighting-fixtures. No. 59,424; Oct. 18.

Kostuszewski, Stephen, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Ring for lighting-fixtures. No. 59,425; Oct. 18.

Lightolier Company. (See Dahl, Thure, assignor.)

MacMillan, John A., Dayton, Ohio. Non-skid tread for airless or pneumatic tires. No. 59,426; Oct. 18.

Murray, Francis T., Chicago, Ill. Clothesline-holder. No. 59,427; Oct. 18.

Parker, Ralph D., assignor of one-fourth to F. M. Wright and one-fourth to C. J. Chuan, San Francisco, Calif. Windshield-wing. No. 59,428; Oct. 18.

Pollard, Willard L., Evanston, Ill. Automobile-top. Nos. 59,429–30; Oct. 18.

Pollard, Willard L., Evanston, Ill. Automobile-panel. Nos. 59,431–2; Oct. 18.

Reeves, John B. (See Smith, Joseph O., assignor.)

Rinker, S. T. (See Rust, Ervin J., assignor.)

Romeo-Cuillies, Albert and J. Cellier, Bordeaux, France. Game-board. No. 59,433; Oct. 18.

Rust, Ervin J., assignor of one-half to S. T. Rinker, Cleveland, Ohio. Hair-clipper. No. 59,434; Oct. 18.

Schulze, John W., Providence, R. I., assignor to Alfred Vester Sons, Inc. Back for lighting-fixtures. No. 59,435; Oct. 18.

Smith, Fillmore M., Syracuse, N. Y., assignor, by mesne assignments, to James Heddon's Sons, Incorporated, Dowagiac, Mich. Artificial bait. No. 59,436; Oct. 18.

Smith, Joseph O., assignor of one-half to J. B. Reeves, Los Angeles, Calif. Gas water-heater. No. 59,437; Oct. 18.

Stock, William S., Portland, Oreg. Container for sachet-powder or similar articles. No. 59,438; Oct. 15.

Sturtevant, James B. (See Weber, J. H., and Sturtevant.)

Tomassulo, Epifanio V. N., Cincinnati, Ohio. Case for hair-cutting machines. No. 59,440; Oct. 18.

Trogner, Roland S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire. Nos. 59,441–3; Oct. 18.

Vester, Alfred Sons Inc. (See Schulze, John W., assignor.)

Voye, Louis, McDonald, Pa. Automobile-signal. No. 59,444; Oct. 18.

Waldorf System Incorporated. (See Whorf, Harry C., assignor.)

Weber, John H., and J. B. Sturtevant, Los Angeles, Calif. Signal-light for automobiles. No. 59,439; Oct. 18.

White, Henry, Milnor, N. D. Clothespin. No. 59,445; Oct. 18.

Whorf, Harry C., Winthrop, assignor to Waldorf System Incorporated, Boston, Mass. Plate or similar article of tableware. No. 59,446; Oct. 18.

Wright, Francis M., et al. (See Parker, Ralph D., assignor.)

Zebra, Willy, New York, N. Y. Match-box. No. 59,447; Oct. 18.

Zimmermann, Edward, Jr., Fairview, N. J. Reflector. No. 59,448; Oct. 18.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Adams-Campbell Company, Chicago, Ill. Machines for printing addresses and other matter. No. 147,471; Oct. 18.

American Chicle Company, New York, N. Y. Chewing-gum. No. 147,472; Oct. 18.

American Line Mfg. & Twine Co., Chicago, Ill. Cord or twine for telephone-poles and the like. No. 147,473; Oct. 18.

American Sheet and Tin Plate Company, Pittsburgh, Pa. Rolled iron and steel sheets and plates, and tin and terne plates. Nos. 147,474-5; Oct. 18.

Arrowsmith Distributing Co., New York, N. Y. Fixing and developing acid. No. 147,476; Oct. 18.

Barnhart Bros. & Spindler, Chicago, Ill. Certain machines, typefounding, linotype, &c. No. 147,476; Oct. 18.

Beggs Shoe Protector Company, St. Louis, Mo. Wearing-plates for shoes. No. 147,476; Oct. 18.

Bentley, Alfred S., Jacksonville, Fla. Rye bread. No. 147,477; Oct. 18.

Bloch, Alexander E., St. Louis, Mo. Flexible supports of leather or like suitable material for the sole of the foot. No. 147,478; Oct. 18.

Bluffton Saw Gauge Co., Bluffton, Ohio. Saw-cutters. No. 147,479; Oct. 18.

Boone, Frank, Chicago, Ill. Furniture-polish. No. 147,480; Oct. 18.

Camden Manufacturing Company, Inc., Columbia, Pa. Curtain clips and clamps and tape, runners, &c. No. 147,481; Oct. 18.

Coe & Vee Products Co., New York, N. Y. Lubricating oils and greases. No. 147,482; Oct. 18.

Chase & Sanborn, Boston, Mass. Coffee. No. 147,483; Oct. 18.

Continental Rubber Co., Philadelphia, Pa. Rubber tire and tube repairs. No. 147,484; Oct. 18.

Davidson, Meyer J., Paris, France. Grinding-machines, such as cement, ore, or stone mills, and parts thereof. No. 147,451; Oct. 18.

Davis, W. A. W., Corp., New York, N. Y. Fiber and wool carpets and rugs. No. 147,452; Oct. 18.

Dickson Raincoat Co., Dickson, Tenn. Raincoats, waterproof overalls and jumpers, and leggings. No. 147,453; Oct. 18.

Eastern Nail Company, Inc., Providence, R. I. Nails. No. 147,481; Oct. 18.

Elmer & Amend, New York, N. Y. Thermometers. No. 147,482; Oct. 18.

Feasel, Harry L., New York, N. Y. Automobile and furniture polish. No. 147,483; Oct. 18.

Federal Electric Company, Chicago, Ill. Phonographs. No. 147,484; Oct. 18.

Fillce & Ferrelli Canning Co., Gilroy, Calif. Canned fruits and vegetables. No. 147,485; Oct. 18.

Fishback Co., The, Indianapolis, Ind. Pancake-flour and buckwheat used for food purposes. No. 147,486; Oct. 18.

Gannon Dietary Company, Marquette, Mich. Certain foods. No. 147,487; Oct. 18.

Graphoscope Company, The, Washington, D. C. Motion-picture-projecting machines and parts thereof. No. 147,488; Oct. 18.

Greenhut, Herman J., Pensacola, Fla. Candies and canned soups. No. 147,489; Oct. 18.

Haren Motors Inc., New York, N. Y. Gasolene-motors. No. 147,490; Oct. 18.

Harty-Peck & Company, Indianapolis, Ind. Non-alcoholic maltless beverage and syrup for making same. No. 147,491; Oct. 18.

Jones & Lamson Machine Company, Springfield, Vt. Lathes and dies for cutting threads on screws, &c. No. 147,492; Oct. 18.

K. P. Products Co., Inc., The, New York, N. Y. Automobile-rim tools. No. 147,451; Oct. 18.

Kansas City Kola Company, Kansas City, Mo. Non-alcoholic maltless beverage and syrup for making same. No. 147,493; Oct. 18.

Kellogg Toasted Corn Flake Company, Battle Creek, Mich. Cereal breakfast foods. Nos. 147,454-5; Oct. 18.

Kellogg Toasted Corn Flake Co., Battle Creek, Mich. Peanut-butter. No. 147,456; Oct. 18.

Kellogg Toasted Corn Flake Co., Battle Creek, Mich. Tea and coffee. No. 147,457; Oct. 18.

Kellogg Toasted Corn Flake Co., Battle Creek, Mich. Flaked cereal foods. No. 147,458; Oct. 18.

Lehman-Rosenfeld Company, The, Cincinnati, Ohio. Non-alcoholic maltless beverage and extracts for making same. No. 147,494; Oct. 18.

Lowrey, Luther R., San Francisco, Calif. Candies. No. 147,495; Oct. 18.

Ludlum Steel Company, Watervliet, N. Y. Certain steels and alloys used for certain elements. No. 147,459; Oct. 18.

Ludwig, Arthur L., New York, N. Y. Clothing—namely stockings and socks. No. 147,460; Oct. 18.

Lyons, Morris H., St. Louis, Mo. Spark-plugs. No. 147,496; Oct. 18.

Maguire, C. L., Petroleum Co., The, Chicago, Ill. Lubricating oils. No. 147,497; Oct. 18.

Manet Box Company, Attleboro Falls, Mass. Mailing-boxes. No. 147,498; Oct. 18.

Meyer, Adolf E., New York, N. Y. Certain engines and turbines, and sawmill and woodworking machinery. No. 147,499; Oct. 18.

Metropolitan Company, Inc., The, Long Island City, N. Y. Temperature-regulating devices for engines. No. 147,500. Oct. 18.

Malleata, John, Company, San Francisco, Calif. Non-alcoholic maltless beverage and syrup for making same. No. 147,501; Oct. 18.

National Ammonia Company, The, St. Louis, Mo. Aqua-ammonia. No. 147,502; Oct. 18.

National Aniline & Chemical Company, Inc., New York, N. Y. Dyes, dyestuffs, and colors. No. 147,503; Oct. 18.

National Mayonnaise Machine Co., Inc., Brooklyn, N. Y. Mayonnaise-machines. No. 147,504; Oct. 18.

New Jersey Optical Co., Newark, N. J. Eyeglass frames and mountings. No. 147,505; Oct. 18.

Newton Steel Company, The, Youngstown, Ohio. Coke-plates, black sheets (pickled and not pickled), and black sheets blued. No. 147,506; Oct. 18.

Obenchain-Boyer Co., The, Logansport, Ind. Chemical fire-engines with certain equipment and hand fire-extinguishers. No. 147,507; Oct. 18.

Paper Manufacturers Co. Inc., Philadelphia, Pa. Paper for wiping ink from the face of dies. No. 147,508; Oct. 18.

Parker, J. H., Son, Incorporated, Parkersburg, W. Va. Porcelain insulators. No. 147,509; Oct. 18.

Paulson, Thomas, & Son, Inc., Brooklyn, N. Y. Bronze castings. No. 147,510; Oct. 18.

Penn Brass Manufacturing Co., Cleveland, Ohio. Certain plumbing supplies. No. 147,511; Oct. 18.

Perfect Automatic Egg Timer and Manufacturing Company, Chicago, Ill. Time-controlled egg-boiler. No. 147,512; Oct. 18.

Pugh, Charles H., Limited, Birmingham, England. Driving-chain for cycles and motorcycles. No. 147,513; Oct. 18.

Rubin, Samuel, New York, N. Y. Garters, armbands, suspenders. No. 147,462; Oct. 18.

Schalk Chemical Company, Los Angeles, Calif. Paint and varnish remover. No. 147,514; Oct. 18.

Snap-On Wrench Company, Milwaukee, Wis. Wrench. No. 147,515; Oct. 18.

Southland Steamship Company, Wilmington, Del. Electric searchlights and electric-lighting outfits and fixtures. No. 147,516; Oct. 18.

Southwick, George W., Stamford, Conn. Cotton belt-lacing. No. 147,517. Oct. 18.

Standard Check Book Co., Inc., Richmond, Va. Check-books. No. 147,518; Oct. 18.

Stanley Insulating Company, Great Barrington, Mass. Vacuum-jacketed receptacles. No. 147,519; Oct. 18.

Stamber, John, & Co., Inc., New York, N. Y. Pocketbooks. No. 147,520; Oct. 18.

Stetson, John B., Company, Philadelphia, Pa. Soft and stiff felt hats and caps for men and boys. No. 147,464; Oct. 18.

Stevens Yarn Company, Inc., New York, N. Y. Thread and yarn. No. 147,465; Oct. 18.

Stewart, F. W., Manufacturing Corporation, Chicago, Ill. Replacement parts for speedometers. No. 147,466; Oct. 18.

St. Louis Electrical Works, St. Louis, Mo., assignors to Valley Electric Company, Wilmington, Del. Rectifiers for alternating currents. No. 147,521; Oct. 18.

Superior Lamp Mfg. Co., New York, N. Y. Certain electric accessories for automobiles. No. 147,522; Oct. 18.

Thompson-Deaton Co., The, Seattle, Wash. Piano and furniture polish. No. 147,523; Oct. 18.

Trion Company, Trion, Ga. Cotton goods in the piece. No. 147,524; Oct. 18.

U. S. Ball Bearing Manufacturing Company, Chicago, Ill. Ball-bearings. No. 147,525; Oct. 18.

Valley Electric Company. (See St. Louis Electrical Works, assignors.)

Ward, George S., New York, N. Y. Soda-spoon holders. No. 147,526; Oct. 18.

Whiting Paper Company, Holyoke, Mass. Writing-papers and machine-envelops. No. 147,527; Oct. 18.

Youngstown Boiler & Tank Co., The, Youngstown, Ohio. Tanks. No. 147,528; Oct. 18.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

All Saints Cigar Co., Tampa, Fla. "All Saints." (For Cigars.) Nos. 23,440–1; Oct. 18.

Ambrosia Chocolate Cream Co., Chicago, Ill. "Ambrosia Milk Chocolates." (For Boxes of Candy.) No. 23,442; Oct. 18.

American Sugar Products Corporation, Los Angeles, Calif. "Silverlist Syrup." (For Containers for Table-Syrup.) No. 23,443; Oct. 18.

American Sugar Products Corporation, Los Angeles, Calif. "Jack Frost Syrup." (For Containers for Table-Syrup.) No. 23,444; Oct. 18.

Barnet Leather Co. Inc., New York, N. Y. "Van Raba Calf." (For Calf-Leather.) No. 23,445; Oct. 18.

Bromm, L., Baking Co., The, Richmond, Va. "Bromm's Old Virginia." (For Fruit Cake.) No. 23,446; Oct. 18.

Cheri Inc., Philadelphia, Pa. "Cheri Kisses (Dearie)." (For Candy Kisses.) No. 23,447; Oct. 18.

Counterbalance Rubber Heel Co., Elyria, Ohio. "J D." (For Receptacles Containing Rubber Heels.) No. 23,448; Oct. 18.

Crown Brewing Company, The, Cincinnati Ohio. "Crown Malt Extract." (For Cans Containing Malt Extract.) No. 23,449; Oct. 18.

Earl, Eugenie, San Francisco, Calif. "Klean-Glas." (For Liquid for Cleaning Glass.) No. 23,450; Oct. 18.

Ejecto Cigarette Holder Co., San Francisco, Calif. "Ejecto." (For Mouthpiece-Holders for Cigarette Products.) No. 23,451; Oct. 18.

Empire Food Products Company, New York, N. Y. "Empire Choc-O-Lette." (For a Powder Containing Cocoa, Sugar, and Skimmed Milk for Making a Beverage.) No. 23,452; Oct. 18.

Empire Food Products Company, New York, N. Y. "Empire Powdered Milk." (For Powdered Skimmed Milk.) No. 23,453; Oct. 18.

Empire Food Products Company, New York, N. Y. "Reelegg Eggs in Powdered Form." (For Eggs in Powdered Form.) No. 23,454; Oct. 18.

Empire Food Products Company, New York, N. Y. "Empire Baking Powder." (For Baking-Powder.) No. 23,455; Oct. 18.

Foster, Dominique, Milwaukee, Wis. "Marmon." (For Cigars.) No. 23,456; Oct. 18.

Freibofer, William, Philadelphia, Pa. "Butter-Krust." (For Bread.) No. 23,457; Oct. 18.

Fulton Specialty Co., Elizabeth, N. J. "The Wizard." (For Educational Games and Toys.) No. 23,458; Oct. 18.

Gambichler, Eugene, Brooklyn, N. Y. "Magic Salve." (For Salve for Rheumatism and Inflammatory Troubles.) No. 23,459; Oct. 18.

Gem Specialty Razor Corporation, Brooklyn, N. Y. "Double Life." (For Safety-Razors and Safety-Razor Blades.) No. 23,460; Oct. 18.

Glemby's, S., Sons Co., Inc., New York, N. Y. "Regina Hair Net." (For Hair-Nets.) No. 23,461; Oct. 18.

Globe Grain & Milling Company, Los Angeles, Calif. "Globe A1." (For Baby-Pig Feed.) No. 23,462; Oct. 18.

Greene, Tweed & Co., New York, N. Y. "Runwel." (For Twisted Packing for Valve-Stems.) No. 23,463; Oct. 18.

Hale, E. B., Lima, Ohio. "Hale's Phemalene." (For Medicine for Nervous Affections of Women.) No. 23,464; Oct. 18.

Halstead Specialties Co., San Francisco, Calif. "Spring-Eez." (For Rust-Solvent Lubricant.) No. 23,465; Oct. 18.

Heit Miller Lau Co., Fort Wayne, Ind. "He-Mi-La." (For Candy—Namely, Bar-Candy.) No. 23,466; Oct. 18.

Heller, B., & Co., Chicago, Ill. "Golden-Hen." (For Boxes, Kegs, and Barrels Containing Golden-Hen, a Diluted Mixture of Certified Colors.) No. 23,467; Oct. 18.

Heller, B., & Co., Chicago, Ill. "Zanzibar-Brand Fly Chaser." (For Containers Holding Zanzibar-Brand Fly-Chaser, a Preparation for Chasing Flies from Cattle, Horses, Dogs, and Animal-Quarters. No. 23,468; Oct. 18.

Ilaria Bros., Newark, N. J. "Dentolene." (For a Preparation for the Treatment of Pyorrhea Alveolaris, Spongy, Bleeding, or Receding Gums, and for an Oral Prophylactic or Mouth-Wash.) No. 23,469; Oct. 18.

International Consolidated Chemical Corp., Inc., New York, N. Y. "Tokalon Eyebrow Pencil." (For Receptacles and Packages Containing Eyebrow-Pencils.) No. 23,470; Oct. 18.

International Consolidated Chemical Corp., Inc., New York, N. Y. "Creme Tokalon." (For Receptacles and Packages Containing Toilet Cream.) No. 23,471; Oct. 18.

International Packing Corporation, Los Angeles, Calif. "Catalina Brand." (For Canned Tuna Fish.) No. 23,472; Oct. 18.

Kellogg Sugar Products Company, Lima, Ohio. "Gouber." (For Candy.) No. 23,473; Oct. 18.

Klee, Theodore P., Kansas City, Mo. "Kleeodore Toilet Cream." (For Bottles Containing Kleeodore Toilet Cream.) No. 23,474; Oct. 18.

Lane, Mrs. J. M., Atlantic City, N. Y. "Mme. J. M. Lane's 'Over the Top' Hair Cream." (For Containers of the Aforesaid Hair-Cream.) No. 23,475; Oct. 18.

Lowrey, Lesley S., San Francisco, Calif. "Lowrey's Fruit Nut." (For Fruit Candy.) No. 23,476; Oct. 18.

M. B. Ice Cream Company. (See Menasha Printing and Carton Company, assignor.)

MacCandless, W., Oakland, Calif. "Dubl-Rub Motor Car Polish and Cleaner." (For Automobiles.) No. 23,477; Oct. 18.

Magnus, Joseph B., Chicago, Ill. "Puritan Malt Sugar Syrup." (For Malt-Sugar Syrup.) No. 23,478; Oct. 18.

Matalene, G., Chicago, Ill. "Italy Brand." (For Macaroni.) No. 23,479; Oct. 18.

Menasha Printing and Carton Company, Menasha, assignor to Waukesha Ice Cream Company, Waukesha, Wis. "Waukesha Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,480; Oct. 18.

Menasha Printing and Carton Company, Menasha, Wis., assignor to Neches Creamery Company, Beaumont, Tex. "Dairy Maid Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,481; Oct. 18.

Menasha Printing and Carton Company, Menasha, Wis., assignor to Mowry Creamery Company, Colorado Springs, Colo. "Mowry's Golden Glow Butter." (For Cartons Containing Butter.) No. 23,482; Oct. 18.

Menasha Printing and Carton Company, Menasha, Wis., assignee to M. B. Ice Cream Company, Waco, Tex. "Delicious M-B." (For Cartons Containing Ice-Cream.) No. 23,483; Oct. 18.

Milwaukee Paper Box Company, Milwaukee, Wis. "Cordial Cherries." (For Boxes Containing Chocolate Candy.) No. 23,428; Oct. 18.

Morgan, S. H., Manufacturing Company, Pasadena, Calif. "Morgan's Magic Cold Cream." (For Cold-Cream.) No. 23,485; Oct. 18.

Mowry Creamery Company. (See Menasha Printing and Carton Company, assignor.)

Muscalet Beverage Company, New York, N. Y. "Whak." (For 6½ Oz. Bottles Containing a Delicious Drink Made from Orange and other Similar Flavors.) No. 23,486; Oct. 18.

Neches Creamery Company. (See Menasha Printing and Carton Company, assignor.)

Northrup, King & Co., Minneapolis, Minn. "Northrup, King & Co.'s Sterling Buttermilk Mash." (For Bags of Poultry Feed.) No. 23,487; Oct. 18.

Pagoda Import Company, Inc., New York and Brooklyn, N. Y. "Parfait." (For Hair-Nets.) No. 23,488; Oct. 18.

Pedrick, L. Laurence E., Salem, Mass. "Snow Drop." (For Foot-Salve.) No. 23,489; Oct. 18.

Penick & Ford, Ltd., Inc., New Orleans, La. "Brer Rez." (For Corn-Syrup and Refiner's Syrup.) No. 23,490; Oct. 18.

Pillsbury, John C., Whitefield, N. H. "Pillsbury's Toasted Nut Kisses." (For Candy.) No. 23,491; Oct. 18.

Pingree, Claire B., Wilmette, Ill. "Pingree's Old Glory Brand." (For Coffee.) No. 23,492; Oct. 18.

Price Food Products Corporation, Minneapolis, Minn. "Dr. Price's Rolled Oats." (For Packages Containing Cereal Rolled Oats.) No. 23,493; Oct. 18.

Ranels, H. N., Milwaukee, Wis. "Mephisto A Devil-Ish Good Smoke." (For Cigar-Boxes and Cigars.) No. 23,494; Oct. 18.

Red Top Malt Extract Co., Cincinnati, Ohio. "Red Top." (For Tin Cans Containing Malt Extracts.) No. 23,495; Oct. 18.

Rice Products Co. Inc., New Orleans, La. "Ricet." (For a Rice Food.) No. 23,496; Oct. 18.

Richmond Sundry Company, Inc., Richmond, Va. "Hold-Phast." (For Hair-Nets.) No. 23,497; Oct. 18.

Rose and Weintraub Baking Company, Kansas City, Mo. "Golden Crust." (For Bread.) No. 23,498; Oct. 18.

Schnarr, J., & Company, Orlando, Fla. "Schnarr's Spray Formula." (For Materials Employed in Spraying Vegetation.) No. 23,499; Oct. 18.

Southwest Georgia Watermelon Growers Association, Adel, Ga. "Sowega." (For Watermelons.) No. 23,500; Oct. 18.

Stallman, Gustavus Adolph, Watertown, Wis. "Clover Blossom." (For Cheese.) No. 23,501; Oct. 18.

Standard Overall Company, Baltimore, Md. "Big Sam." (For Overalls and Work-Shirts.) No. 23,502; Oct. 18.

Sugerman Bros., Cleveland, Ohio. "Princess Hair Net." (For Hair-Nets.) No. 23,503; Oct. 18.

Thomas-Boyce Direct Feed Company, Indianapolis, Ind. "Servus Manufacturer Feeder." (For Animal and Poultry Feed.) No. 23,504; Oct. 18.

Thomas-Boyce Direct Feed Company, Indianapolis, Ind. "Direct Manufacturer Feeder." (For Animal and Poultry Feed.) No. 23,505; Oct. 18.

Wahl, Arnold, Chicago, Ill. "Fermentive the Super-malt Syrup." (For Malt Syrups and Extracts.) No. 23,506; Oct. 18.

Waukesha Ice Cream Company. (See Menasha Printing and Carton Company, assignor.)

Weston, E. J., Los Angeles, Calif. "Weston's Special Malt Syrup." (For Cans Which Contain Pure Barley and Malt Syrup.) No. 23,507; Oct. 18.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

American Chicle Co., New York, N. Y. "America's Choice." (For Advertising Purposes for Adam's Black Jack Chewing-Gum.) No. 5,768; Oct. 18.

Aulman Inc., Milwaukee, Wis. "Ladish Quality." (For Advertising Purposes for Wear.) No. 5,769; Oct. 18.

B. V. D. Company, The, New York, N. Y. "Quality Ever Maintained." (For Advertising Purposes for Athletic Underwear.) No. 5,775; Oct. 18.

Beech-Nut Packing Co., Canajoharie, N. Y. "Beech-Nut Peanut Butter." (For Advertising Purposes for Beech-Nut Peanut-Butter.) No. 5,770; Oct. 18.

Beech-Nut Packing Co., Canajoharie, N. Y. "Beech-Nut Ginger Ale." (For Advertising Purposes for Beech-Nut Ginger-Ale.) No. 5,771; Oct. 18.

Beech-Nut Packing Co., Canajoharie, N. Y. "The Handy Candy." (For Advertising Purposes for Handy Candy.) No. 5,772; Oct. 18.

Beech-Nut Packing Co., Canajoharie, N. Y. "Handy Candy Clove Flavor." (For Advertising Purposes for Beech-Nut Brand Handy Candy.) No. 5,773; Oct. 18.

Beech-Nut Packing Co., Canajoharie, N. Y. "For Real Flavor Serve Beech-Nut Jellied Fruit." (For Advertising Purposes for Beech-Nut Jellied Fruit.) No. 5,774; Oct. 18.

Brown, Richard H., New York, N. Y. "The Halliwell Turtle Curling Iron Stove." (For Advertising Purposes for Heaters for Curling-Irons.) No. 5,776; Oct. 18.

Canadian Fur Traders, Detroit, Mich. "Canada's Best Furs." (For Advertising Purposes for Furs.) No. 5,777; Oct. 18.

Carpenter-Morton Co., Boston, Mass. "Colorite." (For Advertising Purposes for Colorite.) No. 5,778; Oct. 18.

Chase & Sanborn, Boston, Mass. "Coffee or Tea—Chase & Sanborn's for Me." (For Advertising Purposes for Coffee and Tea.) No. 5,779; Oct. 18.

Consolidated Shoe Company, Inc., Boston, Mass. "Foot Prints Shop." (For Advertising Purposes for Shoes.) No. 5,780; Oct. 18.

Cryder, Floyd E., Chicago, Ill. "Sterling Cream." (For Advertising Purposes for Cream.) No. 5,781; Oct. 18.

Eaton, Crane & Pike, Pittsfield, Mass. "I'm sure it must be important, Jenkins, or you wouldn't disturb me now." (For Advertising Purposes for Crane's Linen Lawn and Eaton's Highland Linen. No. 5,782; Oct. 18.

Foamite Firefoam Company, New York, N. Y. "Frozen In." (For Advertising Purposes for Fire-Extinguishing Apparatus.) No. 5,783; Oct. 18.

Gerstendorfer Bros., New York, N. Y. "Sapolin." (For Advertising Purposes for Stovepipe-Enamel.) No. 5,784; Oct. 18.

Haynes Automobile Company, The, Kokomo, Ind. "Haynes 50 the Smaller and Lighter Haynes Car." (For Advertising Purposes for Automobiles.) No. 5,785; Oct. 18.

Herzog, M., New York, N. Y. "Jansetta." (For Advertising Purposes for Hair-Nets.) No. 5,786; Oct. 18.

Kelly, J. A., & Brothers, Clinton, Iowa. "Kelly Soft Seat Bed Davenports." (For Advertising Purposes for Bed-Davenports.) No. 5,787; Oct. 18.

Lenz, William G., Brooklyn, N. Y. "Flashlight Lamps." (For Advertising and Display Purposes for Flashlight-Lamps.) No. 5,788; Oct. 18.

Merrow Machine Company, The, Hartford, Conn. "The Merrow Machine Company." (For Advertising Purposes for Sewing-Machines, Including Overseaming and Overedging and Shell-Stitch Machines and the Products Thereof.) No. 5,789; Oct. 18.

Nye, Joseph K., Fish Island, New Bedford, Mass. "Nyoil." (For Advertising Purposes for Nyoil, a Lubricant.) No. 5,790; Oct. 18.

Oswald Jaeger Baking Co., Milwaukee, Wis. "Memorial Day." (For Advertising Purposes for Bread.) No. 5,791; Oct. 18.

Palmolive Company, The, Milwaukee, Wis. "Keep That School Girl Complexion." (For Advertising Purposes for Palmolive Soap.) No. 5,792; Oct. 18.

Papercan Corporation, The, Yonkers, N. Y. "Take home some ice cream in a Papercan." (For Advertising Purposes for Papercans.) No. 5,793; Oct. 18.

Papercan Corporation, The, Yonkers, N. Y. "Ice Cream easy to carry home in a Papercan." (For Advertising Purposes for Papercans.) No. 5,794; Oct. 18.

Papercan Corporation, The, Yonkers, N. Y. "Easy to keep fresh, easy to carry home in a Papercan." (For Advertising Purposes for Papercans.) No. 5,795; Oct. 18.

Real Silk Hosiery Mills, Indianapolis, Ind. "Authorized Color Card Showing Season's Latest Shades." (For Advertising Purposes for Hosiery.) No. 5,796; Oct. 18.

Real Silk Hosiery Mills, Indianapolis, Ind. "Exclusive Features of Real Silk Fashioned Hosiery." (For Advertising Purposes for Hosiery.) No. 5,797; Oct. 18.

Remington Arms UMC Co., New York, N. Y. "Remington UMC for Shooting Right." (For Advertising Purposes for Remington UMC Shot-Shells and Shot-Guns.) No. 5,798; Oct. 18.

Swift & Company, Chicago, Ill. "A Delightful Summer Specialty." (For Advertising Purposes for Frankfurt-Style Sausage.) No. 5,799; Oct. 18.

Tetlow, Henry, Co., Philadelphia, Pa. "Tetlow's Pussy-willow Powder." (For Advertising Purposes for Tetlow's Pussywillow Face-Powder.) No. 5,800; Oct. 18.

Welsbach Co., Gloucester, N. J. "Welsbach Gas Heater." (For Advertising Purposes for Gas-Heaters.) No. 5,801; Oct. 18.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Achilles Rubber and Tire Company, Inc., The, Binghamton, N. Y. Rubber-tire casings and tubes. No. 149,947; Oct. 18.

Alligator Oil Clothing Company, St. Louis, Mo. Waterproof clothing. No. 143,419; Oct. 18.

Aluminum Cooking Utensil Co., The, New Kensington, Pa. Dry paint-pigments. No. 147,594; Oct. 18.

American Thread Company, The, Jersey City, N. J. Spool-cotton, sewing-cotton, thread, and cotton yarn. No. 150,591; Oct. 18.

American Trading Company of New Orleans, Wilmington, Del., and New York, N. Y. Turpentine. No. 150,344; Oct. 18.

Angell, James R., New Orleans, La. Syrup remedy for coughs and whooping-coughs, colds, and bronchitis. No. 150,345; Oct. 18.

Ariel Manufacturing Company, Baltimore, Md. Underwear, pajamas, and shirts for men. No. 141,745; Oct. 18.

Armstrong Chemical Company, Washington, D. C. Hair-restorative. No. 150,212; Oct. 18.

Arnold, Joseph A., Providence, R. I. Medicinal preparation for hay-fever. No. 142,771; Oct. 18.

Associated Fruit Co., Chicago, Ill. Fresh grapes. No. 148,808; Oct. 18.

Atlantic Refining Company, The, Philadelphia, Pa. Road and roofing oils and petroleum asphalts and pitches. No. 149,699; Oct. 18.

Atlas Doll Company, Chicago, Ill. Dolls. No. 152,301; Oct. 18.

Baeder Adamson Company, Boston, Mass. Glue. No. 150,844; Oct. 18.

Balsamea Co., The, San Francisco, Calif. Medical preparation used in the treatment of epidemic influenza, pneumonia, &c. No. 132,719; Oct. 18.

Barfield, Joseph, New York, N. Y. Watches and watch-movements. No. 151,924; Oct. 18.

Barnes, Bert E., Brooklyn, N. Y. Magazines published monthly. No. 150,843; Oct. 18.

Beccard, Emil B., St. Louis, Mo. Printers'-ink varnish. No. 142,317; Oct. 18.

Becker, Harry T. A., London, England. Intestinal disinfectant. No. 147,185; Oct. 18.

Beran, W. W., Company, Everett, Mass. Paper cups. No. 148,948; Oct. 18.

Blanchini, Ferler, Lyons, France. Piece goods of silk, wool, and cotton. No. 150,350; Oct. 18.

Bishop, Joseph H., Baltimore, Md. Hair-tonic. No. 150,213; Oct. 18.

Blanding & Blanding, Inc., Providence, R. I. Remedy for treatment of chlorosis, anemia, scrofula, &c. No. 150,347; Oct. 18.

Blanding & Blanding, Inc., Providence, R. I. Remedy indicated in pulmonary diseases, chronic coughs, &c. No. 150,349; Oct. 18.

Blumenthal, Sidney, & Co., Inc., New York, N. Y. Pile fabrics in the piece. No. 151,701; Oct. 18.

Booth, Samuel M., Billings, Mont. Medicine for use as a blood purifier. No. 150,307; Oct. 18.

Borgfeldt, George, & Co., New York, N. Y. Dolls. No. 152,461; Oct. 18.

Bradshaw, Edward D., New York, N. Y. Salted peanuts and popcorn in its natural state. No. 148,789; Oct. 18.

Bremer Brothers, Inc., Hoboken, N. J. Prepared package coffee. [illegible] Oct. 18.

Brockton Jobbing Co., Salt Lake City, Utah. Medicinal preparation for the [illegible] Oct. 18.

Brooks, Charles, [illegible] Tire-venting, cooling, and protecting device. [illegible] Oct. 18.

Cantrell & Cochrane, [illegible] Ginger-ale, ginger-beer, aerated waters, and lemon squash. No. 150,136; Oct. 18.

Cardinet Candy Company, Oakland, Calif. Chocolate and cocoa. No. 149,279; Oct. 18.

Carpenter, Herbert L., New York, N. Y. Shipping drums and containers used for food products, chemicals, &c. No. 152,331; Oct. 18.

Cartier, Inc., New York, N. Y. Watches and clocks. No. 144,562; Oct. 18.

Chemical Sales Company, Philadelphia, Pa. Chemical compounds and preparations for [illegible] and electroplaters' cleaners. No. 148,439; Oct. 18.

Cheramy, Inc., New York, N. Y. Perfumes, sachets, talcum powder, face-powder, cold-cream, &c. No. 150,215–15; Oct. 18.

Cheramy, Inc., New York, N. Y. Perfumes, sachets, talcum powder, face-powder, cold-cream, &c. No. 150,220; Oct. 18.

Chesebrough Manufacturing Company Consolidated, New York, N. Y. Petroleum jelly, all forms of white mineral oil and oils of petroleum, all for [illegible] purposes. No. 139,844; Oct. 18.

Chinoin gyógyszer és vegyészeti termékek gyára r.t. (Dr. Kereszty & Dr. Wolf), Uzsok, Hungary. Preparations for diabetes. No. 146,813; Oct. 18.

Cleveland Gas Burner & Appliance Co., The, Cleveland, Ohio. Burner construction sold as a complete system for furnaces, boilers, and ovens. No. 139,662; Oct. 18.

Coplans & Company, Limited, Newcastle-upon-Tyne, England. Oxid of antimony and [illegible] made therefrom. No. 147,868; Oct. 18.

Cooper, Costa & Casey Dry Goods Co., Los Angeles, Calif. Sheets, sheetings, and pillow-cases. No. 152,543; Oct. 18.

Cotaroid Company, The, New York, N. Y. Artificial leather. No. 146,480; Oct. 18.

Creamery Package Mfg. Company, The, Chicago, Ill. [illegible] No. 149,085; Oct. 18.

Culp, Abraham, New York, N. Y. Phonograph-cabinets. No. 151,505; Oct. 18.

Currier, Antoine, Erie, Pa. Coffee. No. 149,909; Oct. 18.

Davis, H. B., Co., Freeport, Me. Leather shoes. No. 134,465; Oct. 18.

Dayton Automotive Wheel Company, The, Dayton, Ohio. Wheels. No. 147,769; Oct. 18.

De Leary, Daniel, Detroit, Mich. Medical compound for the treatment of consumption. No. 148,649; Oct. 18.

Dochtermann, George T., Passaic, N. J. Spark-plugs. No. 149,321; Oct. 18.

Donley No-Pin Garter Company, The, Chicago, Ill. Garters. No. 136,789; Oct. 18.

Dorite Manufacturing Company, New York, N. Y. Stucco and composition flooring. No. 150,007; Oct. 18.

Electro Chemical Refineries, Inc., Chicago, Ill. Solvent and menstruum and substitute for ethyl alcohol. No. 150,523; Oct. 18.

Eng-Skell Company, Inc., San Francisco, Calif. Flavoring compound used in preparing beverages. Non. 142,889–91; Oct. 18.

Eureka Battery Company, Chicago, Ill. Storage batteries. No. 146,878; Oct. 18.

Fabrique De Montres Selva S. A., Bienna, Switzerland. Watches and parts of watches. No. 151,269; Oct. 18.

Fairbairn, Robert A., New Market, N. J. Horses and mules. No. 141,450; Oct. 18.

Farmers' Commission House, Inc., New York, N. Y. Live and dressed ducks. No. 149,509; Oct. 18.

Federal Machine and Welder Co., The, Warren, Ohio. Electric welders and parts thereof. No. 142,697; Oct. 18.

Fink, Richard, Brooklyn, N. Y. Arsenic complexion preform. No. 149,445; Oct. 18.

Foltz, Stewart P., New Castle, Pa. Metal tokens or saving-checks. No. 127,772; Oct. 18.

Fox River Company, The, Elgin, Ill. Scouring-powders. No. 124,208; Oct. 18.

Frances Fox Laboratories, Incorporated, New York, N. Y. Soap for hair and skin. No. 150,093; Oct. 18.

Franchina, Louis B., Cleveland, Ohio. Hair-tonics. No. 131,725; Oct. 18.

Frishmuth Bro. & Company, Incorporated, Philadelphia, Pa. Cigarettes. No. 141,283; Oct. 18.

Gavurin, Loeb, New York, N. Y. Preparation used internally for coughs, colds, and headaches. No. 150,104; Oct. 18.

Givens, Edward S., Kansas City, Mo. Toilet preparations—viz., face-lotion. No. 149,481; Oct. 18.

Goldstein-Lazar Company, Inc., New York, N. Y., Mexico. No. 134,182; Oct. 18.

Goodrich, H. F., Kansas City, Mo. Coal and cord-wood. No. 150,643; Oct. 18.

Gorton & Company, Inc., Corning, N. Y. Candy. No. [illegible] Oct. 18.

Gould, Lewis, St. Louis, Mo. Absorbent [illegible] No. [illegible] Oct. 18.

Graham, [illegible] Louis, Mo. Cleansing or [illegible] No. [illegible] Oct. 18.

Grand Rapids Brewing Company, Grand Rapids, Mich. Yeast. No. [illegible] Oct. 18.

Grant Milling Company, Aberdeen, Wash. Wood [illegible] No. [illegible] Oct. 18.

Greenwood, Lewis, St. Louis, Mo. Medicinal preparation for [illegible] in grain. [illegible] No. [illegible] Oct. 18.

Greenthal, [illegible] New York, N. Y. Gold leaf, tape, and [illegible] No. [illegible] Oct. 18.

Gregory & [illegible] Inc., New York, N. Y. Shades of [illegible] No. [illegible] Oct. 18.

[illegible] No. [illegible] Oct. 18.

[illegible] Ohio. Upholstered and [illegible] No. [illegible] Oct. 18.

[illegible] N. Y. Ice-cream. No. 144,752; Oct. 18.

Hoerdemann, [illegible] Barcelona, Spain. Carbon-paper. No. [illegible] Oct. 18.

Hogan Mint Co., The, St. Paul, Minn. Bird seeds and feeds. No. 152,077; Oct. 18.

Hogan Mint Company, St. Paul, Minn. Fish food. No. 142,076; Oct. 18.

Holdgate, D. & H., New York, N. Y. Woolens and other [illegible] No. [illegible] Oct. 18.

Holley, E. C., Baltimore, Md. [illegible] Feather [illegible] No. [illegible] Oct. 18.

Holtzman & Hinsch, Inc., West Haven, N. Y. Olive oil, mayonnaise, [illegible] No. [illegible] Oct. 18.

Hostetter, Edward C., Company, The, Tulsa, Okla. Insecticides. No. 150,365; Oct. 18.

Houbigant, Inc., New York, N. Y. Perfumes and toilet waters. No. [illegible] Oct. 18.

Houlton-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics. No. [illegible] Oct. 18.

Holland-American Wafer Co., Grand Rapids, Mich. Bakery [illegible] namely, wafers. No. [illegible] Oct. 18.

Hollingshead, R. F., Co., The, Camden, N. J. Auto-body [illegible] polishing-wax, liquid tire-cover, &c. No. [illegible] Oct. 18.

Holmgreen, William A., New York, N. Y. Smoking-tobacco. No. [illegible] Oct. 18.

Hosiery Creation Hosiery, Inc., New York, N. Y. Hosiery. No. [illegible] Oct. 18.

Hosoumu & Co., Inc., Nihonbashiku, Tokyo, Japan. Paper and stationery. No. [illegible] Oct. 18.

Howden, T., Company, Monterey, Calif. Canned fish. No. [illegible] Oct. 18.

Huyck, F. C., & Sons, Albany, N. Y. Bedspreads and couch-covers. No. [illegible] Oct. 18.

Insulite Chemical Company, Aurora, Ill. Flooring composed mainly of mastic material) and the mastic materials for use in laying such flooring. No. [illegible] Oct. 18.

International Association of Lions Clubs, Chicago, Ill. Periodicals issued monthly, bulletins, and circulars. No. [illegible] Oct. 18.

International Association of Lions Clubs, Chicago, Ill. Monthly periodical. No. [illegible] Oct. 18.

International Lubricating Co., The, Cincinnati, Ohio. Lubricating, signal, and petroleum oils and petroleum-oil greases. No. [illegible] Oct. 18.

International Salt Co. of New York, New York, N. Y. Dairy and table salt, common, coarse, and fine salt. No. [illegible] Oct. 18.

Ivanhoe Trading Corporation, New York, N. Y. Cheese. No. [illegible] Oct. 18.

Jackson, Pauline E., Birmingham, Ala. Hair-tonic. No. [illegible] Oct. 18.

James Lees and Sons Company, Bridgeport, Pa. Embroidery-gauze, [illegible] Oct. 18.

Jessel Company, The, Brooklyn, N. Y. Cushions. No. [illegible] Oct. 18.

Johnson, Alexander E., Nashville, Tenn. Medicinal preparation for the treatment of the liver, kidneys, bowels, [illegible] No. [illegible] Oct. 18.

Jones, John H., New York, N. Y. Box-springs, hair mattresses, hair and wool mattresses, pillows, &c. No. [illegible] Oct. 18.

Jonsson Eureka Combination Sweep Co., Yakima, Wash. [illegible] Nos. [illegible] Oct. 18.

Kalish, Julius, Inc., New York, N. Y. Powder used as an [illegible] No. [illegible] Oct. 18.

Kane, Thomas B., Philadelphia, Pa. Non-alcoholic, non-[illegible] beverage and syrup for making same. No. [illegible] Oct. 18.

"Kelly Duty Corset," Company, The, Middletown, Conn. [illegible] No. [illegible] Oct. 18.

King, Rena P., Shelby, Miss. Pressing-oil, hair-grower, [illegible] remedy, &c. No. [illegible] Oct. 18.

Kirkpatrick, John E., Jr., Atlanta, Ga. Preparations for use in the treatment of headaches, colds, neuralgia, &c. No. [illegible] Oct. 18.

Kistler, M. J., Chicago, Ill. Remedy for treatment of rheumatism. No. [illegible] Oct. 18.

Knickerbocker, C. H., & Co., Baltimore, Md. Tea. No. [illegible] Oct. 18.

Krueger, J. T., & Co. Inc., Indianapolis, Ind. Polish for varnished and enameled machines, furniture, &c. No. [illegible] Oct. 18.

Lapine, Geo., Los Angeles, Calif. Poultry medicinal powder. No. [illegible] Oct. 18.

Lederer, Herbert E., Co., Inc., New York, N. Y. Mattress tufter, and settings in the piece. No. [illegible] Oct. 18.

Lederman, Max, Brooklyn, N. Y. Beauty-creams. No. [illegible] Oct. 18.

Leydel, Edward, Philadelphia, Pa. Electric storage batteries. No. [illegible] Oct. 18.

Lewis Brothers, Inc., New York, N. Y. Hair-dressing. No. [illegible] Oct. 18.

Lewis, Florence N., New York, N. Y. Toilet soaps. No. [illegible] Oct. 18.

Liberty Mirror Works, Pittsburgh, Pa. Rear-view mirrors. No. [illegible] Oct. 18.

Liggett & Myers Tobacco Company, New York, N. Y. Tobacco. No. [illegible] Oct. 18.

Lindsay Light Company, Chicago, Ill. Gas-mantles. No. [illegible] Oct. 18.

Lipshutz, George U., Chicago, Ill. Vanilla flavor and extract, lemon extracts. No. [illegible] Oct. 18.

Long Printing Company, Philadelphia, Pa. Monthly magazine. No. [illegible] Oct. 18.

Lumbrite Company, The, New York, N. Y. Timepieces. No. [illegible] Oct. 18.

M. & S. Co., New York, N. Y. Massage-cream for softening and beautifying the skin. No. [illegible] Oct. 18.

Maday, Frank J., Frankfort, Ind. Cigars. No. [illegible] Oct. 18.

Mackey, J. L., Charleston, Tenn. Medicine for use in the treatment of headaches, &c. No. [illegible] Oct. 18.

Marathon Tire & Rubber Company, Cuyahoga Falls, Ohio. Cementless selling material. No. [illegible] Oct. 18.

Massachusetts Oil Refining Company, Braintree, Mass. Lubricating-oils. No. [illegible] Oct. 18.

Mattutat, Ernest F., New York, N. Y. Hemoglobin medical tablets. No. [illegible] Oct. 18.

McCarthy, J. B., Co., New York, N. Y. Carbon-paper. No. [illegible] Oct. 18.

McDougall Company, Frankfort, Ind. Kitchen-cabinets. No. [illegible] Oct. 18.

Mead, M. A., Company, Chicago, Ill. Watches, watch-movements, and watchcases. No. [illegible] Oct. 18.

Medicinal Gum Mersch & Co. No. [illegible] Oct. 18.

Mercereau Metal Bed Company, Jersey City, N. J. Metal bedsteads and cribs. No. [illegible] Oct. 18.

Michaud, W. H., Beaverton, Mich. Veterinary products—namely, healing-ointment, greaseless hoof-ointment, &c. No. [illegible] Oct. 18.

Miller, E. B., & Company, Chicago, Ill. Coffee. No. [illegible] Oct. 18.

Miller, John, Mobile, Ala. Antiseptic and eczema preparation. No. [illegible] Oct. 18.

Milligan, John C., Louisville, Ky. Compound for treating corns, callouses, warts, and bunions. No. [illegible] Oct. 18.

Milwaukee-Waukesha Brewing Company, Waukesha, Wis. Ginger-ale, root-beer, mineral and soda waters. No. [illegible] Oct. 18.

Morton Sundour Fabrics, Ltd., Dentonhill, Carlisle, England. Cotton piece goods. No. [illegible] Oct. 18.

Mummert, Maurice M., Goshen, Ind. Containers for the dust, &c., taken from vacuum-cleaners. No. [illegible] Oct. 18.

Mun-Kee Products Corporation, Los Angeles, Calif. Stamp-pads for inking rubber stamps. No. [illegible] Oct. 18.

Mutual Trading Company, New York, N. Y. Phonographs, talking-machines, and records therefor. No. [illegible] Oct. 18.

National Asbestos Manufacturing Co., Jersey City, N. J. Prepared roofing. No. [illegible] Oct. 18.

National Carbon Company, Inc., New York, N. Y. Electrodes for electric furnace and electrolyte operations. No. [illegible] Oct. 18.

Neuss, Hesslein & Co. Inc., New York, N. Y. Woven-cotton piece goods. No. [illegible] Oct. 18.

Newman, J. C., Cigar Company, Cleveland, Ohio. Cigars. No. [illegible] Oct. 18.

Nierman, Robert G., Cleveland, Ohio. Vehicle-wheels and parts thereof. No. [illegible] Oct. 18.

Northwestern Petroleum Company, Appleton, Wis. Lubricating-oil. No. [illegible] Oct. 18.

Noyes Bros. & Cutler, Incorporated, St. Paul, Minn. Cleaning preparation having water-softening properties. No. [illegible] Oct. 18.

Natural Laboratories, Inc., New York, N. Y. Preparation to be used in the treatment of hog-cholera. No. [illegible] Oct. 18.

Ohio Valley Drug Company, Wheeling, W. Va. Antiseptic and prophylactic solution. No. [illegible] Oct. 18.

Ohio Valley Drug Company, Wheeling, W. Va. Elixir rhubarb alkaline with pancreatin. No. [illegible] Oct. 18.

Omaha Alfalfa Milling Company, Omaha, Nebr. Poultry feed. No. [illegible] Oct. 18.

Orange Crush Company, Chicago, Ill. Non-alcoholic, fruit-less beverage and syrup for making same. No. [illegible] Oct. 18.

Oregon Growers Cooperative Assn., Salem, Oreg. Dried, canned, and fresh fruits, berries, and vegetables, jams, nuts, &c. No. [illegible] Oct. 18.

Oriental Products Importing Co., Syracuse, N. Y. Olive-oil. No. [illegible] Oct. 18.

Over Cotton Mills, Anderson, S. C. Piece goods—namely, sheetings and drills. No. [illegible] Oct. 18.

Pacific Coast Biscuit Co., Seattle, Wash. Cookies and crackers of all kinds. No. [illegible] Oct. 18.

Paris Manufacturing Company, The, Cleveland, Ohio. Window-shades. No. [illegible] Oct. 18.

Pater, Alphonse J., Hamilton, Okla. Preparation for the treatment of asthma. No. [illegible] Oct. 18.

Pearlson Cartons & Ribbon Mfg. Co., Inc., New York, N. Y. Hinge-tops. No. [illegible] Oct. 18.

"Perolin" Fabrikations-Gesellschaft m. b. H., Vienna, Austria. Disinfectants, disinfecting fluids or emulsions. No. [illegible] Oct. 18.

Pfeiffer Bros., Brooklyn, N. Y. Barley-malt syrup for use in baking and candy-making. No. [illegible] Oct. 18.

Philbert, Gustave, Nice, France. Insecticides for the destruction of flies, fleas, mosquitoes, &c. No. [illegible] Oct. 18.

Plançon, Emile P., Brooklyn, N. Y. Ointment for treatment of cuts, bruises, old running sores, &c. No. [illegible] Oct. 18.

Planten, H., & Son, Inc., Brooklyn, N. Y. Tubular containers for medicinal ointments. No. [illegible] Oct. 18.

Pyorr-Lara Company, The, St. Louis, Mo. Tooth-paste. No. [illegible] Oct. 18.

Quality Mattress Company, Rochester, N. Y. Metal beds, cribs, couches, and springs and mattresses therefor. No. [illegible] Oct. 18.

Refino Company, The, Denver, Colo. Gasolene. No. [illegible] Oct. 18.

Rice & Hutchins Incorporated, Boston, Mass. Boots, shoes, slippers. No. [illegible] Oct. 18.

Riley, W. E., & Company, Bristow, Okla. Hair-restorer. No. [illegible] Oct. 18.

Rittenhouse, David L., Norristown, Pa. Skin-lotion. No. [illegible] Oct. 18.

Robert Wise Company, The, Cincinnati, Ohio. Shoes made of leather and also combination leather and fabric. No. [illegible] Oct. 18.

Roberts, William, St. Louis, Mo. Preparation for rheumatism, kidney trouble, asthma, &c. No. [illegible] Oct. 18.

Rochester Stamping Company, Rochester, N. Y. Condiment sets, sandwich-plates, horse-radish jars, syrup-pitchers, &c., plated. &c. No. [illegible] Oct. 18.

Rogers Candy & Ice Cream Co., Seattle, Wash. Candies. No. [illegible] Oct. 18.

Roscoe Haegelin Co., Santa Rosa, Calif. Cider and grape-juice. No. [illegible] Oct. 18.

Rosenthal, Maurice, San Francisco, Calif. Cigars. No. [illegible] Oct. 18.

Rossville Company, The, Lawrenceburg, Ind. Alcoholic solvent. No. [illegible] Oct. 18.

Rowe, Mable, Detroit, Mich. Hair-tonic. No. [illegible] Oct. 18.

Royal Cocoa Co., Jersey City, N. J. Coffee, cocoa, and chocolate. No. [illegible] Oct. 18.

Sackerman, Louis F., Baltimore, Md. Watches and clocks. No. [illegible] Oct. 18.

Sanitas Company Inc., The, Jersey City, N. J., and Brooklyn, N. Y. Preparation consisting of an antiseptic jelly for colds in the head, &c. No. [illegible] Oct. 18.

Satr, Abdul, Burgettstown, Pa. Blood-purifying medicine. No. [illegible] Oct. 18.

Schmidt, Julius C., Eldorado Springs, Mo. Medicine used in the treatment of the blood. No. [illegible] Oct. 18.

Schueller, E., Paris, France. Dyes for hair and beard, lotions for skin and hair, &c. No. [illegible] Oct. 18.

Schuster Company, The, Cleveland, Ohio. Crushed fruits, fruit syrups, and beverages made therefrom. No. [illegible] Oct. 18.

Schwob, Adolphe, Inc., New York, N. Y. Watches. No. [illegible] Oct. 18.

Segalas, Chas., Company, San Francisco, Calif. General tonic. No. [illegible] Oct. 18.

Seligman, Nathan, New York, N. Y. Hair-nets. No. [illegible] Oct. 18.

Sellers, G. I., & Sons Company, Elwood, Ill. Kitchen-cabinets. No. [illegible] Oct. 18.

Sidenberg, G., & Co., New York, N. Y. Flounces, embroidered bandings and skirtings in the piece. Nos. [illegible] Oct. 18.

Smile Company, The, Minneapolis, Minn. Sugar preparation from fruit acid for making sherbet, ices, cake-frosting. No. [illegible] Oct. 18.

Spiceland Sanitarium, The, Spiceland, Ind. Natural alkaline, saline, carbonated water. No. [illegible] Oct. 18.

Spitzen, Rudolph, New York, N. Y. Woolen, worsted, &c., piece goods. No. [illegible] Oct. 18.

Stewart Manufacturing Corporation, The, Chicago, Ill. Vehicle-window frames. No. [illegible] Oct. 18.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 5, as amended Mar. 3, 1911.]

Stone, Junius H., Corporation, New York, N. Y. Composition flooring in blocks and sheets. No. 150,712; Oct. 18.

Stover, Fanne, Whiting, Ind. Furniture and metal cleaning preparations. No. 147,943; Oct. 18.

Strohmeyer, Otto, Creighton, Nebr. Air-hose rest. No. 148,658; Oct. 18.

Sugarland Industries, The, Sugarland, Tex. Mattress. No. 152,220; Oct. 18.

Tehan, Maurice J., Springfield, Ohio. Toilet preparation for the skin to improve and beautify the complexion and for skin eruptions. No. 150,576; Oct. 18.

Texas Star Flour Mills, Galveston, Tex. Wheat-flour. No. 145,243; Oct. 18.

Thornton, Lewis, Kansas City, Mo. Medicine for rheumatism. No. 147,139; Oct. 18.

Tide Water Oil Company, Bayonne, N. J., and New York, N. Y. Lubricating-oils, gasolene, mineral wax, lubricating-grease, &c. Nos. 152,392-6; Oct. 18.

Tide Water Oil Company, Bayonne, N. J., and New York, N. Y. Lubricating oils, gasolene, mineral wax, lubricating-grease, &c. No. 152,396; Oct. 18.

Tide Water Oil Company, Bayonne, N. J., and New York, N. Y. Lubricating-oils, gasolene, mineral wax, lubricating-grease, &c. Nos. 152,460-2; Oct. 18.

Tiloleum Limd., London, England. Linoleum in the upper surface of which grooves are formed and filled with cement. No. 151,511; Oct. 18.

Tomoda Goshi Kaisha, Tokyo, Japan. Preparation for gonorrhea. No. 115,991; Oct. 18.

Tonk Manufacturing Co., Chicago, Ill. Piano-benches. No. 141,814; Oct. 18.

Tribune Company, The, Chicago, Ill. *Nom de plume* for newspaper articles. No. 147,056; Oct. 18.

Tribune Company, The, Chicago, Ill. Newspaper-column. No. 147,057; Oct. 18.

Tribune Company, The, Chicago, Ill. Series of cartoons. Nos. 147,058-9; Oct. 18.

Tribune Company, The, Chicago, Ill. *Nom de plume* for newspaper articles. No. 147,060; Oct. 18.

Tribune Company, The, Chicago, Ill. Series of cartoons. Nos. 147,061-5; Oct. 18.

Tribune Company, The, Chicago, Ill. Newspaper-column. No. 147,066; Oct. 18.

Trimble, Edward M., Rochester, N. Y. Folding crib for children. No. 150,412; Oct. 18.

United Candy & Pastry Company, Washington, D. C. Candy, cake, bread, and pastry. No. 147,604; Oct. 18.

United States Tire Company, New York, N. Y. Rubber tires. No. 149,431; Oct. 18.

Valco Mfg. Co. Inc., New York, N. Y. Sleepers. No. 147,067; Oct. 18.

Van Slyke, G. W., & Horton, Albany, N. Y. Cigars. No. 140,761; Oct. 18.

Vannas, Hemer R., Worcester, Mass. Chemical carbon-remover. No. 144,848; Oct. 18.

Vaycide Chemical Corporation, Birmingham, Ala. Medicinal preparation for poultry for the treatment of cholera, white diarrhea, &c. Nos. 147,494-6; Oct. 18.

Vichert & Co. Demay Watch Co., La Chaux-de-Fonds, Switzerland. Watches and parts of watches. No. 151,441; Oct. 18.

Vivandeer, Inc., V., New York, N. Y. Face, talcum, and toilet powders. No. 149,949; Oct. 18.

Werner, Frank, San Francisco, Calif. Shoes, boots, slippers, pumps, oxfords. No. 144,815; Oct. 18.

Western Hair Goods Co., Chicago, Ill. Hair-dye remover. No. 144,315; Oct. 18.

Western Importing Co., San Francisco, Calif. Ethyl alcohol. No. 152,385; Oct. 18.

Why-Sal Battery Solution Company, Cincinnati, Ohio. Solution for all makes of lead-plate batteries. No. 150,339; Oct. 18.

Wickwire Spencer Steel Corporation, Worcester, Mass. Wire rope. No. 145,196; Oct. 18.

Wilder, Harry H., San Diego, Calif. Medicine to be used in the treatment of asthma, hay-fever, &c. No. 149,960; Oct. 18.

Wiley, John J., Dayton, Ohio. Indigestion and stomach medicine. No. 149,944; Oct. 18.

Williams, Percy B. T., Philadelphia, Pa. Toothbrushes. No. 134,010; Oct. 18.

Winship, Bolt & Co., Wakefield, Mass., and New York, N. Y. Woolens, cottons, silks, flannels, &c. No. 146,472; Oct. 18.

Winship, Bolt & Co., Wakefield, Mass., and New York, N. Y. Woolens, cottons, silks, flannels, &c. No. 146,474; Oct. 18.

Wittenberg, Armin H., Los Angeles, Calif. Silk lisle and cotton hosiery for men, women, children, and infants. No. 147,491; Oct. 18.

Woodward, A. B., Medicine Company, Marlin, Tex. Blood and liver tonic. No. 151,442; Oct. 18.

Woolsey, C. A., Paint & Color Company, Jersey City, N. J. Dry, ready-mixed, and paste paints, dry colors, &c. Nos. 149,534-7; Oct. 18.

Worth, Inc., New York, N. Y. Gowns, coats, suits, and furs attached to clothing as trimmings, and made up in scarfs, &c. No. 153,736; Oct. 18.

Wunder, Minnie, Los Angeles, Calif. Superfluous-hair remover. No. 129,016; Oct. 18.

York Laboratories Company, York, Pa. Medical compound for the treatment of venereal diseases. No. 150,125; Oct. 18.

Zingre, J. Frederick L., St. Louis, Mo. Medicinal tablet for prevention of attacks of epilepsy. No. 150,423; Oct. 18.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 18TH DAY OF OCTOBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abrading-tools, Making. C. R. King. No. 1,394,500; Oct. 18.

Accelerator and fuel-regulator, Automatic. G. Horvath. No. 1,394,015; Oct. 18.

Aerial-gun tractor. W. Christie. No. 1,394,068; Oct. 18.

Aeroplane. H. J. Le Pul. No. 1,394,314; Oct. 18.

Aeroplane construction. C. F. Willard. No. 1,394,460; Oct. 18.

Aeroplane-propeller. G. B. Collier. No. 1,393,758; Oct. 18.

Agitator. C. L. Lewis. No. 1,394,315; Oct. 18.

Air-compressor. E. L. Blevins. No. 1,393,742; Oct. 18.

Aircraft, Wing and similar member of. F. H. Page. No. 1,394,343; Oct. 18.

Aircraft, Wing and similar member of. F. H. Page. No. 1,394,344; Oct. 18.

Air-hose, Operating appliance for angle-cocks for. L. Cornell. No. 1,393,623; Oct. 18.

Airplane. F. M. Osborne. No. 1,393,820; Oct. 18.

Amusement apparatus. F. R. Chester. No. 1,394,277; Oct. 18.

Anchor-post. A. L. Melvin. No. 1,393,808; Oct. 18.

Antiskid-chain. G. T. Wallace and J. E. Twitchell. No. 1,393,986; Oct. 18.

Arm, Tone-. L. D. Nadel. No. 1,394,500; Oct. 18.

Ash-conveying or like systems, Valve mechanism for. H. A. Poppenhusen and A. P. Strong. No. 1,393,905; Oct. 18.

Autographic register. A. W. Metsner. No. 1,394,436; Oct. 18.

Autographic register. J. Q. Sherman and A. W. Metsner. No. 1,394,447; Oct. 18.

Automobile-bumper. H. Verleeve. No. 1,394,238; Oct. 18.

Automobile-creeper, Combination. C. J. Graner. No. 1,394,493; Oct. 18.

Automobile-door latch. L. A. Schumaker. No. 1,393,911; Oct. 18.

Automobile-jack. J. A. Adell. No. 1,394,268; Oct. 18.

Automobile license-plates, Display device for. H. E. Robinson and R. M. Van Cleve. No. 1,393,971; Oct. 18.

Automobile-lock. C. N. Colstad. No. 1,393,754; Oct. 18.

Automobile-robe. L. I. Meyerhoin. No. 1,394,208; Oct. 18.

Automobile robe-rail. P. F. Denning. No. 1,394,287; Oct. 18.

Automobile service, Pressure-operated grease-injecting device or grease-gun for. F. Jackson. No. 1,394,017; Oct. 18.

Automobile-truck chain. M. A. Whitten. No. 1,394,384; Oct. 18.

Automobiles, Locking device for. E. F. Jones. No. 1,394,021; Oct. 18.

Automobiles, Rear light for. C. S. Swaney. No. 1,394,046; Oct. 18.

Automobiles, Safety device for. W. Meyer. No. 1,394,437; Oct. 18.

Automobiles, Sun and rain shield for. W. H. Damon. No. 1,394,254; Oct. 18.

Automobiles, Temperature-indicator for. H. A. Bishel. No. 1,393,968; Oct. 18.

Autos, Washing device for. W. H. Crosby. No. 1,394,282; Oct. 18.

Axle-mounting. N. J. Gondolf. No. 1,394,491; Oct. 18.

Bag-fastener. F. A. Fuller. No. 1,393,770; Oct. 18.

Bait, Artificial. H. T. Looper. No. 1,394,318; Oct. 18.

Bale-bands, Spliced joint for. W. D. Kimball and C. G. Mortimer. No. 1,393,791; Oct. 18.

Ball-mills, Grinding in. J. S. Fasting. No. 1,394,294; Oct. 18.

Band-cutter. C. L. Loller. No. 1,394,484; Oct. 18.

Bar: *See*—
Safety-bar.

Basket. A. J. Allen. No. 1,394,463; Oct. 18.

Battery: *See*—
Electric battery.

Bearing, Adjustable pivot-. G. H. Ransom. No. 1,393,965; Oct. 18.

Bearing, Antifriction-. J. G. Nelson. No. 1,394,110; Oct. 18.

Bearing-board. S. E. Hansen. No. 1,393,891; Oct. 18.

Beater. L. Bordwell. No. 1,393,941; Oct. 18.

Bed, Collapsible. G. A. C. Monroe. No. 1,394,231; Oct. 18.

Bed-spring. A. and F. Tamaris and M. Hendler. No. 1,394,511; Oct. 18.

Bed-spring frame. H. O. Ersin. No. 1,394,155; Oct. 18.

Bed-spring, Portable. S. Mikiel. No. 1,394,320; Oct. 18.

Bed, Tilting. G. F. De Grasse. No. 1,393,885; Oct. 18.

Bedstead, Adjustable. A. and F. Tamaris and M. Hendler. No. 1,394,512; Oct. 18.

Beehive. W. E. Crease. No. 1,393,757; Oct. 18.

Beet-blocker. S. Donner. No. 1,394,152; Oct. 18.

Beet-topping apparatus. S. J. Wilson. No. 1,393,871; Oct. 18.

Belt. J. E. Hogan. No. 1,394,414; Oct. 18.

Belt-fastener. B. C. Robinson. No. 1,394,255; Oct. 18.

Belt-shipper. G. R. Quimby and H. F. Parker. No. 1,394,252; Oct. 18.

Blast-furnace. A. B. Carstens. No. 1,393,749; Oct. 18.

Block: *See*—
Die-block.

Block-pack. S. A. Scott. No. 1,394,363; Oct. 18.

Blowtorches, Attachment for. T. W. Garnett. No. 1,393,999; Oct. 18.

Board: *See*—
Bearing-board.

Boiler: *See*—
Superheater-boiler.

Boiler. R. W. Birchfield. No. 1,393,741; Oct. 18.

Bottle cap, Milk-. I. Davis. No. 1,394,409; Oct. 18.

Bottle retainer, Milk-. J. V. Cannissaro. No. 1,394,142; Oct. 18.

Box: *See*—
Collapsible box. Sound-box.
Folding box. Switch-box.
Mail-box.

Box head, Brass liner stuffing-. A. D. Purtle. No. 1,394,114; Oct. 18.

Box or crate, Folding. C. F. Fehling. No. 1,394,295; Oct. 18.

Boxes, Supporting structure for packing-. E. E. Kring. No. 1,394,028; Oct. 18.

Bracket: *See*—
Clothesline-bracket. Radiator-bracket.

Brake-drum pulley. M. Birkigt. No. 1,394,402; Oct. 18.

Brassière. M. D. Tate-Smith. No. 1,394,235; Oct. 18.

Brick-machine. Y. D. Avy. No. 1,394,285; Oct. 18.

Brooder. M. C. Baron. (Reissue.) No. 15,207; Oct. 18.

Brush, Fountain marking-. L. W. Simmons. No. 1,393,841; Oct. 18.

Brush-holder. O. C. Malcolm. No. 1,394,205; Oct. 18.

Brush, Massage-. F. L. Mathieu. No. 1,394,206; Oct. 18.

Buckle. B. R. Burg. No. 1,393,881; Oct. 18.

Buckle. T. Garceau. No. 1,394,195; Oct. 18.

Buckle. O. E. Wardner. No. 1,394,380; Oct. 18.

Buffer, Door-. O. A. Lawrence. No. 1,394,420; Oct. 18.

Building block and wall. E. Calvert. No. 1,394,406; Oct. 18.

Building-frames, Constructing. A. G. Aurand. No. 1,393,933; Oct. 18.

Button-blank rake. R. Stanforth and L. A. Angle. No. 1,393,846; Oct. 18.

Bumper. R. E. Griewe and R. Johnson. No. 1,394,170; Oct. 18.

Burner: *See*—
Kerosene-burner. Oven-burner.
Oil-burner.

Burner. J. B. Sheridan. No. 1,394,228; Oct. 18.

Button-fasteners, Attacher for. H. H. Daniels. No. 1,394,476; Oct. 18.

Buttons, Parallel clamp for holding jig and fixture. H. V. Gould. No. 1,394,004; Oct. 18.

Cabinet, Kitchenette-. C. H. Cooper. No. 1,394,146; Oct. 18.

Cable-coupling. H. A. Jensen. No. 1,394,019; Oct. 18.

Cable, Sector-. H. P. M. Carter. No. 1,393,750; Oct. 18.

Cactus, Making stock food from. W. Gebhardt. No. 1,394,162; Oct. 18.

Cake forming and cutting machine, Fried-. J. B. Winans. No. 1,393,872; Oct. 18.

Calcining phosphate rock, Apparatus for. M. Shoeld. No. 1,393,840; Oct. 18.

Calcining process, Phosphate-rock-. M. Shoeld. No. 1,393,839; Oct. 18.

Calibrating transparent tubes, Device for. A. Massi and F. Martini. No. 1,394,422; Oct. 18.

Calipers. J. S. Bushnell. No. 1,393,746; Oct. 18.

Calk-fastener. D. Ballenger. No. 1,393,934; Oct. 18.

Camera. C. J. Krysanowsky. No. 1,393,793; Oct. 18.

Camera. A. H. Rolfkjer. No. 1,393,829; Oct. 18.

Camera. S. C. Swann. No. 1,394,047; Oct. 18.

Camera-shutter. J. Swinscoe. No. 1,393,983; Oct. 18.

Cameras, Film-winding means for. H. H. Berry. No. 1,394,401; Oct. 18.

Cameras, Reel-actuating device for. S. C. Swann. No. 1,394,045; Oct. 18.
Can: *See*—
Oil-can.
Can feeding and righting machine. C. P. Cantley. No. 1,393,947; Oct. 18.
Car door. Grahn. W. Pihet. No. 1,393,982; Oct. 18.
Car-door-operating mechanism. L. T. Penny. No. 1,393,960; Oct. 18.
Car-loading system. G. P. Mariner and R. E. Chrysler. No. 1,394,422; Oct. 18.
Car-step, Auxiliary. W. C. McFeely. No. 1,393,986; Oct. 18.
Cars, Cross-tie for railway. L. G. Miller and R. C. Lane. No. 1,394,425; Oct. 18.
Cars, Hand-brake for railway. G. A. Woodman. No. 1,394,066; Oct. 18.
Cars, Weather screen or hood for motor. R. W. Anderson. No. 1,394,794; Oct. 18.
Cars, Wheel-holder for railway. O. M. McGuire. No. 1,394,319; Oct. 18.
Cartridge: *See*—
Toy cartridge.
Cartridge-case. E. T. Baker. No. 1,394,356; Oct. 18.
Carburetor. W. H. Tutt. No. 1,394,337; Oct. 18.
Card-holder. H. J. Farnham. No. 1,394,167; Oct. 18.
Carrier: *See*—
Trolley-harp carrier.
Cash-register. F. L. Fuller. No. 1,394,370; Oct. 18.
Casting, Preparing steel for. J. S. McGlynn. No. 1,394,108; Oct. 18.
Cathode apparatus, Incandescent. W. D. Coolidge and H. A. Wagner. No. 1,394,144; Oct. 18.
Cellulose-ether solvent and composition. J. M. Donohue. No. 1,394,356; Oct. 18.
Chair: *See*—
Musical rocking-chair.
Chair-backs and the like, Spring for. H. B. Graff and C. M. Fisher. No. 1,394,005; Oct. 18.
Changeable indicator. C. Taletta. No. 1,394,294; Oct. 18.
Checking-machine. F. B. Wainwright. No. 1,394,379; Oct. 18.
Cheese Forming blocks of. N. Simon. No. 1,393,915; Oct. 18.
Cheese-holder. A. J. Menach. No. 1,393,950; Oct. 18.
Christmas-tree stand. E. A. Wilske. No. 1,394,266; Oct. 18.
Cigar-lighter. F. B. Farnsworth. No. 1,393,886; Oct. 18.
Cigarette-making machine. C. Cesare. No. 1,394,220; Oct. 18.
Circuits, Means for and method of reducing cross-talk in four-wire. O. B. Blackwell. No. 1,394,062; Oct. 18.
Circuits, Repeater-controlling system for four-wire. C. S. Demarest. No. 1,394,189; Oct. 18.
Circuits, Testing system for four-wire. C. S. Demarest. No. 1,394,190; Oct. 18.
Clamp: *See*—
Hose-clamp.
Clamp. F. K. Hobbs. No. 1,394,412; Oct. 18.
Clay-working machinery. W. A. Gruenberg. No. 1,394,495; Oct. 18.
Cleaner: *See*—
Windshield-cleaner.
Clip: *See*—
Tuft-yarn spring-clip.
Closure. R. Stirling. No. 1,393,847; Oct. 18.
Closure. H. E. Townsend. No. 1,393,926; Oct. 18.
Clothesline-bracket. P. J. G. Vetter. No. 1,394,339; Oct. 18.
Clutch mechanism. M. Sitney. No. 1,394,448; Oct. 18.
Clutch segments, Tightener-yoke for friction-. E. McLeod. No. 1,393,895; Oct. 18.
Coating and impregnating agent and making it. A. J. Rowland. No. 1,393,832; Oct. 18.
Coating and impregnating agent and making it. A. J. Rowland. No. 1,393,833; Oct. 18.
Coating composition. F. Cook. No. 1,394,230; Oct. 18.
Coating-machine. W. Costello, Jr. No. 1,394,241; Oct. 18.
Coating or covering material, Machine for. E. C. Weeks. No. 1,393,940; Oct. 18.
Coax, Automatic cylinder-. C. E. Nordberg and W. F. Koon. No. 1,394,337; Oct. 18.
Cock, Ball-. G. H. Jones. No. 1,394,023; Oct. 18.
Coffee-can and attachment. W. E. Miller. No. 1,394,210; Oct. 18.
Coffeepot. B. Olshaskie. No. 1,394,040; Oct. 18.
Collapsible box. E. F. Eastman. No. 1,394,154; Oct. 18.
Collar-fastener. J. Dean. No. 1,393,760; Oct. 18.
Combing-machines, Detaching roll-motion for. E. Turnstall. No. 1,394,054; Oct. 18.
Combustion control, Means of. F. D. Fetter. No. 1,393,836; Oct. 18.
Comminuting-mill. R. C. Newhouse. No. 1,394,394; Oct. 18.
Commutators, Building. V. G. Apple. No. 1,393,878; Oct. 18.
Compressor-joint construction. R. S. Blair. No. 1,394,167; Oct. 18.
Concrete building structure. W. C. Richman. No. 1,393,940; Oct. 18.
Concrete-mixer, Power-operated discharge mechanism for. C. E. Foote. No. 1,394,160; Oct. 18.
Concrete-mixer, Power-operated discharge mechanism for. C. E. Foote. No. 1,394,161; Oct. 18.
Condensing apparatus. J. I. Planck. No. 1,394,344; Oct. 18.
Construction, Removable. C. Fregonara. No. 1,393,906; Oct. 18.
Container. C. H. Newcck. No. 1,393,815; Oct. 18.
Control device. E. Forester. No. 1,394,158; Oct. 18.
Coupling. C. E. Johnson. (Reissue.) No. 1,394,618; Oct. 18.
Coupling, Pipe-. A. M. Dimpfl. No. 1,393,761; Oct. 18.
Cooking apparatus. A. M. Demuth. No. 1,393,763; Oct. 18.
Cooking apparatus. A. M. Demuth. No. 1,393,764; Oct. 18.
Corset-fastener. S. D. Hahn. No. 1,394,231; Oct. 18.
Corset-top pad. L. Starley. No. 1,394,370; Oct. 18.
Cotton-cutting machine. T. H. Nash. No. 1,393,944; Oct. 18.
Coupling attachment. C. E. Casgrain. No. 1,394,274; Oct. 18.
Coupling: *See*—
Cable-coupling.
Crank, spring-. H. Stebbings. No. 1,394,268; Oct. 18.
Covering material to forms, Machine and process for applying. O. P. Greenwood. No. 1,393,773; Oct. 18.
Crutch, Rolling. M. Scott. No. 1,394,324; Oct. 18.
Cultivator attachment. R. B. Sims. No. 1,394,307; Oct. 18.
Cultivators, Sprayer attachment for. T. F. Thompson. No. 1,393,940; Oct. 18.
Curtain-pole, Sectional. C. Hoffman. No. 1,394,232; Oct. 18.
Curtain-pole, Steering mechanism for. D. K. Wilson. No. 1,393,960; Oct. 18.
Cup: *See*—
Drinking-cup.
Currency. W. H. Gantner. No. 1,394,021; Oct. 18.
Cut-out. F. J. Medine. No. 1,394,227; Oct. 18.
Cut-out switch. W. A. Heinrich. No. 1,394,357; Oct. 18.
Cutter: *See*—
Band-cutter.
Cutting mechanism. C. A. Jaeger. No. 1,394,309; Oct. 18.
Dash-pot. E. M. Camp. No. 1,394,008; Oct. 18.
Davit, Ship's. H. B. Hills. No. 1,394,001; Oct. 18.
Dental-bridge construction. L. E. Stubbs. No. 1,393,767; Oct. 18.
Dental-cotton holder and waste-receiver. N. I. Woolsey. No. 1,394,321; Oct. 18.
Dental X-ray-film pocket. R. B. Taylor. No. 1,394,503; Oct. 18.
Derrick. G. P. Slater. No. 1,393,842; Oct. 18.
Detonator, Apparatus for obtaining pressure time. M. R. Gibson. No. 1,394,001; Oct. 18.
Die-block. R. E. Bolling. No. 1,394,247; Oct. 18.
Die-casting ejector. R. E. Bolling. No. 1,394,246; Oct. 18.
Ding bat, Sinking and tapering metal form. W. E. Smith. No. 1,393,816; Oct. 18.
Direction-indicator. A. R. Townshend, Jr. No. 1,393,954; Oct. 18.
Dish-washer. G. M. Green. No. 1,394,160; Oct. 18.
Distributer-head. J. M. Towle. No. 1,394,031; Oct. 18.
Door, Sliding. W. H. Packer and G. L. Smith. No. 1,394,210; Oct. 18.
Draft-yoke. E. Geares, Jr. No. 1,394,142; Oct. 18.
Draft-rigging. G. E. Thackray. No. 1,394,374; Oct. 18.
Driers, Process in direct-action. I. M. Justice. No. 1,393,768; Oct. 18.
Drilling-machine, Pneumatic. J. W. Tierney and F. Miles. No. 1,393,853; Oct. 18.
Drum, Belt-forming. E. C. Wiese. No. 1,394,457; Oct. 18.
Dryer for burning and agglomerating. J. S. Fasting. No. 1,394,293; Oct. 18.
Drums, Valve for rotating. F. Perharty. No. 1,393,825; Oct. 18.
Dust-collecting machine. J. C. Ladue. No. 1,393,892; Oct. 18.
Educational device. A. B. Hurley. No. 1,394,305; Oct. 18.
Efficiency-table. W. F. Brennan. No. 1,394,488; Oct. 18.
Egg testing and sorting machine. C. O. Rogers. No. 1,394,445; Oct. 18.
Electric battery. R. C. Benner and H. P. French. No. 1,393,739; Oct. 18.
Electric-circuit-controlling device. S. C. McKeown. No. 1,394,453; Oct. 18.
Electric coupling device. H. F. Weerasky. No. 1,394,057; Oct. 18.
Electric fuse. A. W. Stucke. No. 1,393,942; Oct. 18.
Electric heating appliances, Tray for. C. H. B. Caspers. No. 1,393,751; Oct. 18.
Electric light, Portable. C. Washtel. No. 1,393,859; Oct. 18.
Electric meter. E. C. Ballman. No. 1,393,737; Oct. 18.
Electric regulation. J. L. Creveling. No. 1,394,143; Oct. 18.
Electric sheet-drier. W. J. Daningburg. No. 1,393,759; Oct. 18.
Electric switch. J. B. Parker. No. 1,393,822; Oct. 18.
Electric switch. D. M. Schiffert. No. 1,393,849; Oct. 18.
Electric-switch mechanism. R. B. Benjamin. No. 1,394,207; Oct. 18.
Electric-switch mechanism. R. B. Benjamin. No. 1,394,208; Oct. 18.
Electric switch, Rotary. A. A. Buck. No. 1,394,515; Oct. 18.
Electrical apparatus. I. H. Sclatar. No. 1,394,151; Oct. 18.
Electrical distribution, System of. W. L. Bliss. No. 1,393,869; Oct. 18.

Electrical switch. G. A. Yanoshowski. No. 1,394,182; Oct. 18.
Electrical uncapping-knife. H. C. Swann. No. 1,393,981; Oct. 18.
Electrolier. L. G. Clark. No. 1,393,943; Oct. 18.
Electrolytic refining of metals. F. D. Crane. No. 1,393,147; Oct. 18.
Elevator-hatchway door-operating device. M. Sytnello. No. 1,393,918; Oct. 18.
Embossing-machine. M. H. Loughridge. No. 1,394,261; Oct. 18.
Empty and load brake. T. H. Thomas. No. 1,394,049; Oct. 18.
End-gate. W. Lawrence. No. 1,394,198; Oct. 18.
Engine: *See*—
Internal-combustion engine. Steam-engine.
Radial engine. Toy engine.
Rotary engine. Windmill-power engine.
Engine. D. Ingram. No. 1,393,818; Oct. 18.
Engine-lubricating device. P. F. Rice. No. 1,394,117; Oct. 18.
Engine-mechanism assembly. W. C. Heath. No. 1,393,778; Oct. 18.
Engine, Rotary. B. M. Lupton, Jr. No. 1,393,803; Oct. 18.
Engines, Fuel cut-out and compression-release for gas. H. L. Bowers and S. E. Hale. No. 1,393,826; Oct. 18.
Engines, Oil-pump for internal-combustion. F. W. Smith. No. 1,394,043; Oct. 18.
Engines, Reversing-gear for internal-combustion. H. Wiedecke. No. 1,394,249; Oct. 18.
Engines, Sleeve for intake-manifolds of internal-combustion. S. L. Fekete. No. 1,393,904; Oct. 18.
Engines, Valve for internal-combustion. E. R. Bartnett. No. 1,394,243; Oct. 18.
Envelop-fastener. C. H. Lovell. No. 1,393,801; Oct. 18.
Envelop, Safety-flap pocket registry. L. W. Harding. No. 1,393,776; Oct. 18.
Envelop-sending machine. C. W. Keenum. No. 1,394,429; Oct. 18.
Ergot and making same, Highly-active preparation of. A. Stoll. No. 1,394,233; Oct. 18.
Excavating-machine. H. A. Powers. No. 1,394,350; Oct. 18.
Exhaust-port, Auxiliary. H. J. Geake. No. 1,394,411; Oct. 18.
Exhibiting device. W. G. Blodgett and M. H. Rosch. No. 1,393,747; Oct. 18.
Explosive and manufacturing it. C. I. Tistell. No. 1,393,984; Oct. 18.
Eyeglasses. O. Narum. No. 1,394,109; Oct. 18.
Fabric and its manufacture, Artificial textile. J. E. Brandenberger. No. 1,394,270; Oct. 18.
Fastener and slug inserting machine. J. H. Brunings. No. 1,394,467; Oct. 18.
Fastener and slug inserting machine. J. H. Brunings and H. H. Reiss. No. 1,394,468; Oct. 18.
Fastener and slug inserting machine. S. A. Dobyns. No. 1,394,478; Oct. 18.
Faucet-holder attachment. H. G. Whitmore. No. 1,394,353; Oct. 18.
Fence-gripping device. W. H. Mason. No. 1,393,807; Oct. 18.
Film-winding apparatus. E. H. Francis. No. 1,394,077; Oct. 18.
Finishing-machine. H. W. Lowe. No. 1,393,949; Oct. 18.
Fire-arch. T. A. Marsh. No. 1,393,805; Oct. 18.
Firearms, Apparatus for use in calibrating and riding the bore of. E. Fuchs. No. 1,394,079; Oct. 18.
Firebrick, Method and apparatus for lining furnace. F. Hardtmuth. No. 1,393,777; Oct. 18.
Fireproof-storing mobile fuel. L. W. Bates. No. 1,394,060; Oct. 18.
Firing mechanism. E. H. Searle. No. 1,393,912; Oct. 18.
Fish-cutting machine. A. R. Rogers. No. 1,394,135; Oct. 18.
Fishing-tool for use in drilling operations. D. L. Driscoll. No. 1,394,077; Oct. 18.
Flashing. O. Roll. No. 1,394,403; Oct. 18.
Flashing. O. Roll. No. 1,394,404; Oct. 18.
Flax-pulling machine. G. Michot. No. 1,393,951; Oct. 18.
Fleecing fabric. L. Reimer. No. 1,393,907; Oct. 18.
Flooring-lumber and manufacturing same, Veneered. B. C. Rockwell. No. 1,394,120; Oct. 18.
Flotation-machine. D. P. Hynes. No. 1,394,306; Oct. 18.
Flour and other materials, Machine for mixing. A. A. Strauss. No. 1,394,071; Oct. 18.
Fluid, Apparatus for proportioning streams of. J. S. Peoples. No. 1,393,894; Oct. 18.
Folding box. E. Aberle. No. 1,394,134; Oct. 18.
Food, Preparing cereal. J. Wiedeman. No. 1,393,997; Oct. 18.
Food product, Granular. J. C. MacLachlan. No. 1,394,085; Oct. 18.
Frame: *See*—
Bed-spring frame. Sheet-metal backing-frame.
Framing-tool. W. E. Foore. No. 1,394,298; Oct. 18.
Frequency-changer. F. W. Meyer. No. 1,394,325; Oct. 18.
Fruit-picker's bag. W. F. Keeline. No. 1,394,167; Oct. 18.
Fuel-distributing system. Separator for suction. H. J. Wolcottmeyer. No. 1,393,963; Oct. 18.
Furnace: *See*—
Blast-furnace. Ore-smelting furnace.
Oil-burning furnace. Stoker-furnace.
Furnace. E. L. Charlier. No. 1,394,470; Oct. 18.
Furnace. W. Lloyd. No. 1,394,421; Oct. 18.
Furnaces, Duplex casting for pipeless. W. J. Johnson. No. 1,394,290; Oct. 18.
Furniture and other articles, Ornamental rope covering for. J. M. Schorpp. No. 1,394,361; Oct. 18.
Fuselage construction. C. F. Willard. No. 1,394,499; Oct. 18.
Gage: *See*—
Button-blank gage. Liquid-level gage.
Indicating hardness-gage.
Gage. A. Novick and E. Fish. No. 1,394,236; Oct. 18.
Game apparatus, Ball-. W. G. Jackson. No. 1,394,306; Oct. 18.
Games and other purposes, Frame for. S. Brown. No. 1,394,140; Oct. 18.
Garment, Child's sleeping-. L. G. Milkes. No. 1,393,900; Oct. 18.
Garment holder or hanger. J. H. Smith. No. 1,393,843; Oct. 18.
Garment, Infants'. V. D. Ohrenstein. No. 1,394,213; Oct. 18.
Garment-supporter. J. H. L'Heureux. No. 1,394,210; Oct. 18.
Garments, Lining for. F. Bowley. No. 1,393,975; Oct. 18.
Gas and oil, Burner for. C. P. Valley. No. 1,394,377; Oct. 18.
Gas generation. H. F. Smith. No. 1,394,043; Oct. 18.
Gas service-pipe. J. W. Wampler. No. 1,393,967; Oct. 18.
Gas-tanks, Filling engine. H. J. Weisenhauser. No. 1,393,561; Oct. 18.
Gasolene-tanks, Filter for. H. A. Hills. No. 1,394,011; Oct. 18.
Gate. F. W. Ewald and H. G. Thomsen. No. 1,394,479; Oct. 18.
Gear-puller. A. R. Wickersham. No. 1,394,129; Oct. 18.
Gear, Reversing-. J. F. Wollesen. No. 1,394,131; Oct. 18.
Gear-shift-lever lock. C. L. Johnson. No. 1,394,353; Oct. 18.
Gear-shift lock. T. Rose. No. 1,394,357; Oct. 18.
Gear, Steering-. D. E. Ross. No. 1,393,973; Oct. 18.
Gear, Steering-. D. E. Ross. No. 1,393,974; Oct. 18.
Gear-testing machine. J. L. Matthews. No. 1,394,324; Oct. 18.
Gear-wheel. C. Stone. No. 1,394,127; Oct. 18.
Gearing. B. A. Garratt. No. 1,394,080; Oct. 18.
Gearing, Intermediate bait-. O. Leimbrock. No. 1,394,100; Oct. 18.
Geometrical tool. J. H. Roberts. No. 1,393,970; Oct. 18.
Glass composition and making same. E. E. Fisher. No. 1,394,296; Oct. 18.
Glassware, Machine for making hollow. H. S. Hutton. No. 1,394,092; Oct. 18.
Graduating-machine. G. L. Taylor. No. 1,393,923; Oct. 18.
Grain-separator. A. G. Febring. No. 1,393,993; Oct. 18.
Grate-shaker bar. E. K. Wolfe. No. 1,393,880; Oct. 18.
Grease-cup. L. N. Bourdeau. No. 1,393,879; Oct. 18.
Grease-cup, Automatic. W. C. Machado. No. 1,394,435; Oct. 18.
Grinder, End-face. F. H. Mooney. No. 1,393,956; Oct. 18.
Grinder-spindle. C. G. Olson. No. 1,393,817; Oct. 18.
Grinders, Work-support for. S. E. Holt. No. 1,394,014; Oct. 18.
Grinding-machine. G. W. Lant. No. 1,394,418; Oct. 18.
Gun magazines, Safety and guide attachment for machine. S. G. Green. No. 1,394,494; Oct. 18.
Gun-mounting. L. H. Griffiths. No. 1,394,083; Oct. 18.
Gun, Non-recoil. J. A. Giles. No. 1,394,490; Oct. 18.
Guns, Stock for single or double barreled. E. Monnereux. No. 1,393,812; Oct. 18.
Gyroscope. E. A. Sperry. No. 1,393,845; Oct. 18.
Hackney. E. G. Ireland and J. D. Clark. No. 1,394,174; Oct. 18.
Hair-clipper. F. Leo. No. 1,393,943; Oct. 18.
Handlamp, Electric. E. A. Little. No. 1,394,101; Oct. 18.
Handles, Die and process for making cup-. J. Benton. No. 1,394,465; Oct. 18.
Hanger: *See*—
Paint-pot hanger.
Harrow. W. O. Lang. No. 1,394,030; Oct. 18.
Hatpin. E. E. Flaherty. No. 1,394,297; Oct. 18.
Hatpin-fastener. L. G. Hurd. No. 1,394,304; Oct. 18.
Headdress. G. M. Sharp. No. 1,394,368; Oct. 18.
Headlight. C. H. Allen. No. 1,393,877; Oct. 18.
Headlight. E. B. Benjamin. No. 1,394,209; Oct. 18.
Headlight-reflector. C. A. McNeal. No. 1,394,319; Oct. 18.
Headlights, Shade for. G. P. Eustis. No. 1,394,150; Oct. 18.
Heel, Detachable shoe-. L. Iannello. No. 1,393,734; Oct. 18.
Heel-trimming machine for fabrics. M. Adair and W. F. Snyder. No. 1,394,344; Oct. 18.
Hinge, Gate-. A. D. Hartley. No. 1,394,464; Oct. 18.
Hinge, Check-. E. Brackbarts. No. 1,393,889; Oct. 18.
Hoist for dumping-vehicles, Hydraulic. G. W. Berry. No. 1,394,245; Oct. 18.
Hoisting-hook. B. Cousins. No. 1,394,068; Oct. 18.
Hook: *See*—
Hoisting-hook.
Hoop-bending device. R. D. Wirt. No. 1,393,988; Oct. 18.
Horse-clamp. W. Meanholder and G. J. Meagle. No. 1,393,811; Oct. 18.
Hose-supporters, Clasp for. J. S. Leary. No. 1,394,199; Oct. 18.

Hub-plate, Adjustable. C. W. Duke. No. 1,393,695; Oct. 18.
Hub-plate, Adjustable. C. W. Duke. No. 1,393,894; Oct. 18.
Hubs, Locking device for detachable wheel-. M. Hering. No. 1,394,287; Oct. 18.
Hydrocarbon-motor. C. R. Short. Nos. 1,393,913-4; Oct. 18.
Hydrocarbons, Fractionally distilling mixtures containing. B. N. French. No. 1,394,466; Oct. 18.
Igniter. C. M. French. No. 1,394,467; Oct. 18.
Images, Registering projected. J. G. Capstaff. No. 1,394,504; Oct. 18.
Indent harness-gage. C. M. Zahler. No. 1,393,689; Oct. 18.
Indicator: *See*—
Changeable indicator. Vending-machine indicator.
Direction-indicator.
Ingot-molds, Feeder for. B. H. Howard and R. J. Turner. No. 1,394,415; Oct. 18.
Insect-destroyer. B. Heller. No. 1,394,497; Oct. 18.
Insulator-changer. T. F. Johnson, Jr. No. 1,394,020; Oct. 18.
Insurance-accounting, Blank for. T. C. Parsons. No. 1,393,623; Oct. 18.
Internal-combustion engine. E. T. Kershaw. No. 1,394,094; Oct. 18.
Internal-combustion engine. A. M. Eenman. No. 1,393,881; Oct. 18.
Iron: *See*—
Rust-resisting alloy of iron.
Irrigating device. E. Robbins. No. 1,394,041; Oct. 18.
Irrigation gate-post. A. Kemphey. No. 1,394,023; Oct. 18.
Jack: *See*—
Scaffold-jack.
Jack. J. H. Burtholder. No. 1,394,141; Oct. 18.
Jack. H. A. Thorndike. No. 1,393,851; Oct. 18.
Jack, T. Tarkilsen. No. 1,394,578; Oct. 18.
Jar-cover opener, Adjustable. J. A. McLeod and E. A. Dauter. No. 1,394,062; Oct. 18.
Jar-holder. N. T. Metcalf. No. 1,394,105; Oct. 18.
Jar-wrench. D. C. and W. Winenberg. No. 1,394,338; Oct. 18.
Joint: *See*—
Rail-joint. Universal joint.
Jointer-guard. P. C. Instrum. No. 1,394,469; Oct. 18.
Kaleidoscope. W. E. Fearn. No. 1,394,480; Oct. 18.
Kerosene-burner. F. W. Evans and A. H. Miller. No. 1,394,073; Oct. 18.
Kiln plant and operating the same, Cement-. J. B. Bell. No. 1,393,738; Oct. 18.
Kitchen utensil, Combination. J. H. Gagnon. No. 1,394,194; Oct. 18.
Knife: *See*—
Electrical uncapping-knife.
Knitted cap and making the same. E. N. John. No. 1,394,083; Oct. 18.
Label-feed device. J. Q. Leavitt. No. 1,394,482; Oct. 18.
Labeling-machine. J. O'Connor. No. 1,394,339; Oct. 18.
Ladder-raising device. H. J. Hopkins. No. 1,394,496; Oct. 18.
Ladder-support. E. N. Taylor. No. 1,393,922; Oct. 18.
Lamp and license-plate holder, Automobile. J. K. McCullagh. No. 1,394,517; Oct. 18.
Lamp-voltage regulator. W. A. Turbayne. No. 1,393,885; Oct. 18.
Lamp-wick regulator. J. C. Robert, Jr. No. 1,394,354; Oct. 18.
Lamps, Transparent glass screen for transmitting substantially white light from incandescent electric. D. N. Mc. Donald. No. 1,393,904; Oct. 18.
Latch mechanism. F. Schmidgall. No. 1,394,129; Oct. 18.
Lathe, Producing. A. H. Carrier. No. 1,394,273; Oct. 18.
Launching-cradles, Releasing device for. J. J. Scallan. No. 1,394,223; Oct. 18.
Laundry apparatus. M. J. Fleming. No. 1,394,189; Oct. 18.
Leather, Reclaiming waste. J. K. Mitchell. No. 1,394,329; Oct. 18.
Lens. E. D. Tillyer. No. 1,393,883; Oct. 18.
Lens-mount and assembling same, Focusing. C. W. Frederick. No. 1,394,078; Oct. 18.
Letter-sheet. D. D. Schulman. No. 1,394,263; Oct. 18.
Levers, Lock for controlling. A. C. Sartan and H. J. Menard. No. 1,394,289; Oct. 18.
Life-preserver. A. P. Lundin. No. 1,394,180; Oct. 18.
Light: *See*—
Electric light.
Liquid-dispensing device. T. E. Hester and F. J. Hardesty. No. 1,394,010; Oct. 18.
Liquid-level gage. M. O. Lundin. No. 1,394,031; Oct. 18.
Liquid-meter. H. C. Alger. No. 1,393,931; Oct. 18.
Liquid mixtures, Process and apparatus for redining. S. F. Aldus and H. C. Eddy. No. 1,394,442; Oct. 18.
Listing device. C. A. Seans. No. 1,394,231; Oct. 18.
Lock: *See*—
Automobile lock. Nut-lock.
Gear-shift lock. Wheel-lock.
Gear-shift-lever lock.
Lock mechanism. J. Schechter. No. 1,393,825; Oct. 18.
Lock mechanism, Safety. A. B. Miller. No. 1,394,327; Oct. 18.
Lock-washer. C. Scheenert. No. 1,393,910; Oct. 18.
Locks, Counter for. E. H. Crosby. No. 1,394,476; Oct. 18.
Locking device. J. M. White. No. 1,393,867; Oct. 18.
Locomotive brake equipment. C. C. Farmer. No. 1,394,074; Oct. 18.
Locomotive or car. A. F. Batchelder. No. 1,394,089; Oct. 18.
Logging-engine, Two-speed direct-drive. A. C. Sullivan and T. W. Gile. No. 1,394,481; Oct. 18.
Loom, Weft-replenishing. E. E. Jackson. No. 1,394,175; Oct. 18.
Looms, Recoil picking mechanism for. G. Crompton, Jr. No. 1,394,092; Oct. 18.
Looms, Stop mechanism for. J. Ouellette. No. 1,394,241; Oct. 18.
M-nitro-p-cresol, Production of. C. G. Derick, W. M. Ralph, and L. H. Flett. No. 1,394,159; Oct. 18.
Machine element. W. G. Doty. No. 1,393,696; Oct. 18.
Magnesia and chamotte, Plastic article of. C. Piersy, M. F. Beecher, and A. A. Kleber. No. 1,394,442; Oct. 18.
Magneto-armature. M. Dutom. No. 1,394,339; Oct. 18.
Magneto-generator, Four-pole. H. C. Mueller. No. 1,394,169; Oct. 18.
Magneto-testing machine. D. W. Opan. No. 1,394,215; Oct. 18.
Mail-bag catcher. C. F. Smith. No. 1,393,939; Oct. 18.
Mail-box. W. H. Chapman. No. 1,393,844; Oct. 18.
Mandrel-press. L. Kallenberger. No. 1,393,789; Oct. 18.
Mattress. A. Berardelli. No. 1,394,061; Oct. 18.
Mattress. G. A. Conlon. No. 1,393,765; Oct. 18.
Measuring apparatus, Vapor-tension-. S. A. Chadwell. No. 1,394,453; Oct. 18.
Measuring device for semifluids. E. T. Upright. No. 1,393,880; Oct. 18.
Measuring instrument. R. C. Showalter. No. 1,394,229; Oct. 18.
Meats, Covering for. L. J. Fletcher. No. 1,394,249; Oct. 18.
Mechanical attachment. A. E. Saul. No. 1,393,977; Oct. 18.
Metal vehicle-wheel. L. S. Lachman. No. 1,393,796; Oct. 18.
Metal wheel. M. Lachman. No. 1,393,795; Oct. 18.
Metal wheel. M. Lachman. No. 1,393,797; Oct. 18.
Meter: *See*—
Electric meter. Liquid-meter.
Milking-machine. P. B. Hewlett. No. 1,393,781; Oct. 18.
Milking-machine. M. Leitch. No. 1,394,433; Oct. 18.
Mill: *See*—
Comminating-mill. Nut-mill.
Mirror and stand, Shaving. H. Dilfany. No. 1,394,070; Oct. 18.
Mirror, Metal. C. A. B. Halvorson, Jr. No. 1,394,085; Oct. 18.
Miscible compounds, Separating partly. A. Stevens. No. 1,394,223; Oct. 18.
Mixing, Kneading, &c., Machine. C. Laurick. No. 1,393,790; Oct. 18.
Moistening device. C. C. Harris. No. 1,394,196; Oct. 18.
Mold: *See*—
Testing-mold.
Motor: *See*—
Hydrocarbon-motor. Water-motor.
Motorcycle. A. Buriat and A. Renaudin. No. 1,394,516; Oct. 18.
Motors, Balancing device for explosion or internal-combustion. O. W. Hult. No. 1,393,782; Oct. 18.
Motors, Manifold for internal-combustion. D. S. DuBois. No. 1,394,507; Oct. 18.
Mower, Lawn-. L. C. W. Pribnow. No. 1,394,351; Oct. 18.
Musical rocking-chair. A. Zubryd. No. 1,394,393; Oct. 18.
Nailing-machine. W. N. Ochs and G. Powell. No. 1,393,816; Oct. 18.
Necktie-stretcher. E. H. Strong. No. 1,393,848; Oct. 18.
Necktie, Safety-holder for. J. Pabst. No. 1,394,441; Oct. 18.
Needle, Electric. M. E. Hall. No. 1,394,171; Oct. 18.
Nest, Trap-. J. F. Cook. No. 1,393,756; Oct. 18.
Nest, Trap-. A. O. and F. M. Forster. No. 1,394,485; Oct. 18.
Nipple-grip. W. P. Strickland. No. 1,393,920; Oct. 18.
Non-skid device. B. O. Beadle. No. 1,394,268; Oct. 18.
Nut. A. McKim. No. 1,393,923; Oct. 18.
Nut-lock. T. M. Hill. No. 1,394,312; Oct. 18.
Nut-lock. A. J. Oudal. No. 1,393,946; Oct. 18.
Nut-mill. E. A. Greene. No. 1,394,062; Oct. 18.
Oil-burner. F. Box. No. 1,394,367; Oct. 18.
Oil-burner. T. L. Davenport. No. 1,394,188; Oct. 18.
Oven-burner. S. S. Jewett. No. 1,393,756; Oct. 18.
Oil-burner. J. A. Quiros. No. 1,394,115; Oct. 18.
Oil-burning furnace. T. Gerrard. No. 1,394,166; Oct. 18.
Oil-can. B. P. Saunders. No. 1,393,978; Oct. 18.
Oil, Cracking and distilling. J. T. Fenton. No. 1,394,481; Oct. 18.
Oil-gas-making apparatus. A. Seidler. No. 1,394,446; Oct. 18.
Oils, Treating. A. B. Foster. No. 1,394,468; Oct. 18.
Oiler, Force-feed. L. E. Godfriaux. No. 1,394,168; Oct. 18.
Oiling system. H. P. Woodworth. No. 1,393,875; Oct. 18.
Olives, Preserving. H. N. Wolf. No. 1,393,873; Oct. 18.
Orchard-heater or smudge-pot. A. C. Potter. No. 1,394,218; Oct. 18.

Ore-smelting furnace. H. L. Charles. No. 1,394,471; Oct. 18.
Ore-smelting furnace. H. L. Charles. No. 1,394,473; Oct. 18.
Ore-smelting furnace. H. L. Charles. No. 1,394,474; Oct. 18.
Ores and solutions, Treating vanadium. A. H. Carpenter and G. A. Baumann. No. 1,393,748; Oct. 18.
Ores by flotation, Apparatus for concentrating. Y. Otsuka. No. 1,393,521; Oct. 18.
Ores, Smelting of. H. L. Charles. No. 1,394,472; Oct. 18.
Oven, Baking-. W. Roberts. No. 1,394,220; Oct. 18.
Oven, Cooking-. F. Kessler, Sr. No. 1,394,310; Oct. 18.
Oven-wall construction. J. A. Miller. No. 1,393,954; Oct. 18.
Pad: *See*—
Corset-top pad.
Paint-pot hanger. G. A. Hayes. No. 1,394,301; Oct. 18.
Paper, Machine for surface-finishing. H. P. Howe. No. 1,394,416; Oct. 18.
Paper, Method and apparatus for coating. F. P. Reed. No. 1,394,444; Oct. 18.
Paper or pulp containers, Machine for making flanged heads or ends for. F. Coates. No. 1,393,752; Oct. 18.
Paper separating and feeding mechanism. L. E. Morrison. No. 1,394,161; Oct. 18.
Paper-spoons and other flat paper utensils. G. P. Mallory. No. 1,394,087; Oct. 18.
Papers and others materials, Fastener for. C. P. Sibley. No. 1,394,123; Oct. 18.
Parachutes, Automatic opener for. F. M. Lemon. No. 1,394,201; Oct. 18.
Pastes that may be poured, Producing. E. Weber. No. 1,394,241; Oct. 18.
Peeling fruits and vegetables. W. D. Bost and H. M. Miller. 1,394,138; Oct. 18.
Pen and brush, Combination. W. R. Penschuck. No. 1,393,960; Oct. 18.
Pen, Fountain-. H. L. Peres and T. Veitch. No. 1,393,903; Oct. 18.
Penknife. T. C. Gibson. No. 1,394,166; Oct. 18.
Periodical subscriptions, Blank for. H. L. Wells. No. 1,393,845; Oct. 18.
Phonograph. E. E. Foute. No. 1,393,760; Oct. 18.
Phonograph. M. J. Stone. No. 1,393,919; Oct. 18.
Phonograph-record holder. E. C. Goedde. No. 1,393,771; Oct. 18.
Pick-stick check. J. A. Andrews and J. W. Herbert. No. 1,394,265; Oct. 18.
Picture films, Drier for motion-. J. G. Capstaff. No. 1,394,249; Oct. 18.
Picture-machine support, Moving-. M. L. Parret. No. 1,394,217; Oct. 18.
Pictures, Apparatus for projection of motion-. C. Anselmi and M. Vituro. No. 1,393,735; Oct. 18.
Pictures, Synchroniser for talking motion-. K. M. Walley. No. 1,393,659; Oct. 18.
Pile, Luminous. T. C. Smith. No. 1,394,449; Oct. 18.
Pin. E. Morehouse. No. 1,393,901; Oct. 18.
Pipe: *See*—
Gas service-pipe.
Pipe. W. Ewart. No. 1,394,292; Oct. 18.
Pipe-bending tool. M. C. Rosenfeld. No. 1,393,830; Oct. 18.
Pipe-laying apparatus. W. L. Chapman. No. 1,393,943; Oct. 18.
Pipe-vise stand, Portable. W. S. Du Charme. No. 1,393,766—Oct. 18.
Piston. J. O. McArthur. No. 1,394,204; Oct. 18.
Piston-ring. H. B. Persing. No. 1,393,904; Oct. 18.
Plane. J. M. Dodenhof. No. 1,393,901; Oct. 18.
Planers, Carriage and swivel cutting-head for. C. B. Mearkle. No. 1,394,443; Oct. 18.
Planter. J. Elsu. No. 1,393,744; Oct. 18.
Planter. C. Lachapelle. No. 1,394,097; Oct. 18.
Plants, Apparatus for decorticating fibrous. F. O'Neill, Jr. No. 1,394,519; Oct. 18.
Plastic composition. C. Neil. No. 1,393,814; Oct. 18.
Plastic materials, Insert for. W. M. Goldsmith. No. 1,394,002; Oct. 18.
Plate-attaching means. E. H. Laws. No. 1,394,020; Oct. 18.
Plow. J. B. Nail and T. P. Henry. No. 1,394,510; Oct. 18.
Post: *See*—
Anchor-post.
Pot: *See*—
Coffeepot. Dash-pot.
Power plants, Conserving heat in steam-. S. M. Lillie. No. 1,393,500; Oct. 18.
Power-wheel. J. Kroth. No. 1,394,417; Oct. 18.
Press: *See*—
Mandrel-press. Seal-press.
Press. G. E. Whitney. No. 1,394,458; Oct. 18.
Press-guard. W. J. Parkinson. No. 1,394,501; Oct. 18.
Pressure-relief device. C. C. Egbert. No. 1,394,072; Oct. 18.
Printer's chase. E. Jackson. No. 1,394,307; Oct. 18.
Printing-machines, Gripping mechanism for. L. E. Morrison. No. 1,394,163; Oct. 18.
Printing-press attachment. W. H. Chapman. No. 1,394,064; Oct. 18.
Printing-presses, Jogger mechanism for. L. E. Morrison. No. 1,394,182; Oct. 18.
Puller: *See*—
Cotton-stalk puller. Gear-puller.
Pulverulent materials, Apparatus with several tubes for treating. A. P. E. Bourdet. No. 1,394,360; Oct. 18.
Pump, Automobile water. V. and F. Klugt. No. 1,394,025; Oct. 18.
Pump, Dispensing-. B. P. Faltin. No. 1,394,191; Oct. 18.
Pump-plunger. F. J. Miller. No. 1,393,963; Oct. 18.
Quick-acting high-pressure connection. W. J. Rudolph. No. 1,393,906; Oct. 18.
Quick-adjustment wrench. H. M. Sprague. No. 1,394,360; Oct. 18.
Radial engine. A. G. Larson. No. 1,394,419; Oct. 18.
Radiator. P. J. H. Bernard. No. 1,393,740; Oct. 18.
Radiator. C. A. Dragorits. No. 1,393,765; Oct. 18.
Radiator-bracket. M. D. Woodling. No. 1,393,954; Oct. 18.
Radiator-cap. C. B. Dennett. No. 1,394,288; Oct. 18.
Radiator-core. F. F. Lang. No. 1,394,311; Oct. 18.
Radiator-filler cap. E. J. Parkas. No. 1,393,902; Oct. 18.
Radiators, Air-flow-controlling mechanism for internal-combustion-engine. L. E. Snell. No. 1,393,917; Oct. 18.
Radiators, Sealing composition for. G. E. Perkins. No. 1,393,941; Oct. 18.
Radio system. L. M. Knell. No. 1,394,024; Oct. 18.
Rail-joint. H. E. Doerr. No. 1,393,764; Oct. 18.
Railway-crossings, Signal device for. L. P. V. Williams. No. 1,394,355; Oct. 18.
Railway snow-danger. E. E. Packer. No. 1,394,112; Oct. 18.
Railway-tie. A. G. Bryan. No. 1,394,272; Oct. 18.
Rake. P. Reiswald. No. 1,394,353; Oct. 18.
Razor-strop. M. Feecher. No. 1,394,345; Oct. 18.
Recording system and selector mechanism therefor. P. C. Raymond. No. 1,393,827; Oct. 18.
Records, Molding wax. J. A. McVickar. No. 1,394,084; Oct. 18.
Reel: *See*—
Wire-reel.
Reel. E. Cassidy. No. 1,394,276; Oct. 18.
Refrigerator. J. H. Weir. No. 1,393,929; Oct. 18.
Register: *See*—
Autographic register. Cash-register.
Register. C. H. Veeder. No. 1,394,455; Oct. 18.
Register, Heating or ventilating. J. H. Shenton. No. 1,394,227; Oct. 18.
Regulator: *See*—
Lamp-voltage regulator. Lamp-wick regulator.
Resilient wheel. A. Kindseer. No. 1,394,024; Oct. 18.
Resistor. E. E. F. Creighton. No. 1,394,187; Oct. 18.
Retaining means. R. W. Jones. No. 1,394,177; Oct. 18.
Rim, Wheel-. A. H. and G. M. Moneyer. No. 1,394,350; Oct. 18.
Ring: *See*—
Piston-ring.
Riveting-machine. H. C. Giles. No. 1,394,506; Oct. 18.
Roadway-crossing signal. C. Adler, Jr. No. 1,394,264; Oct. 18.
Roaster. A. A. Greenick. No. 1,394,412; Oct. 18.
Roof-coating applicator. F. I. Cannon. No. 1,393,747; Oct. 18.
Roofing, Making prepared. H. Cumfer and O. D. McFarland. No. 1,394,149; Oct. 18.
Rubber article, Reinforced. J. R. Gammeter. No. 1,394,300; Oct. 18.
Rubber-punching machine. H. F. Maranville and H. D. Stevens. No. 1,394,422; Oct. 18.
Rug storing and display rack. A. M. Case. No. 1,394,469; Oct. 18.
Rule, Folding. J. W. Heller. No. 1,394,068; Oct. 18.
Rust-resisting alloy of iron. G. H. Charls. (Reissue.) No. 15,206; Oct. 18.
Safety-bar. M. B. Armitage. No. 1,393,788; Oct. 18.
Salting device. E. J. Sapper. No. 1,394,221; Oct. 18.
Sanitary fixture. W. M. Hinsdale and M. W. Lansing. No. 1,394,302; Oct. 18.
Sash-fastener. C. H. Loutrel. No. 1,394,317; Oct. 18.
Sash-lock construction. C. Alboneal. No. 1,394,513; Oct. 18.
Sawmills, Dogging mechanism for. J. B. Weir. No. 1,394,128; Oct. 18.
Scaffold-jack. C. H. Larsson. No. 1,394,178; Oct. 18.
Scaffolding. A. André. No. 1,393,932; Oct. 18.
Scoop, Rear-loading. H. M. Conner. No. 1,394,067; Oct. 18.
Scooter. G. M. A. Koster. No. 1,394,430; Oct. 18.
Scraper, Rail-. T. McCauley. No. 1,394,102; Oct. 18.
Screw-cutting, Die-head for. F. Mountford and R. Standen. No. 1,394,107; Oct. 18.
Screwdriver. J. E. Mills. No. 1,394,438; Oct. 18.
Screwdriver, Power-driven. C. A. Herman. No. 1,394,039; Oct. 18.
Seal. J. L. Weinmann. No. 1,393,863; Oct. 18.
Seal-press. C. C. Gibson. No. 1,394,165; Oct. 18.
Sealing-cap-attaching apparatus. W. Heckmann. No. 1,394,066; Oct. 18.
Seat: *See*—
Tip-up seat.
Separator: *See*—
Grain-separator.
Sewing-machine. J. S. Finch. No. 1,394,075; Oct. 18.
Sewing-machine. G. H. Hurd. No. 1,393,783; Oct. 18.
Sewing-machine. J. Marsden. No. 1,394,039; Oct. 18.
Sewing machine, Buttonhole-. E. B. Allen. No. 1,394,135; Oct. 18.
Sewing-machine, Mutiple-needle. J. C. Ringe. No. 1,394,118; Oct. 18.

Spring cushion. Driving mechanism for. A. E. Moon. No. 1,394,261; Oct. 18.
Spring-cushion. Saddle and oil guard for. W. J. Boston. No. 1,394,209; Oct. 18.
Spring-operating mechanism for. E. E. Tomlinson. No. 1,394,270; Oct. 18.
Stamp. Dating. J. Fisch. No. 1,394,227; Oct. 18.
Stamping-machine. Drill and. E. L. Gleason. No. 1,394,214; Oct. 18.
Starting-device. Automatic. R. Lundquist. No. 1,394,257; Oct. 18.
Sheet-glass. Method and apparatus for drawing. J. F. Cruchley. No. 1,394,233; Oct. 18.
Stencil-sheet. Leading-frame. F. Mandel. No. 1,394,221; Oct. 18.
Stencil-sheet-cutting holder. H. A. and E. H. Grimshaw. No. 1,394,209; Oct. 18.
Stereotyping-matter. J. O. Nymann and J. P. Pearson. No. 1,394,252; Oct. 18.
Stocking-supporter. J. Blumenstock. No. 1,394,163; Oct. 18.
Stool. Shifting. M. J. Nichols. No. 1,394,329; Oct. 18.
Stone-cutting Machine for dressing. F. C. Overbury. No. 1,394,302; Oct. 18.
Ship's Light. T. Utley. No. 1,393,927; Oct. 18.
Ships. System of raising sunken. D. F. Medlin. No. 1,394,284; Oct. 18.
Shock-absorber. J. W. Biesecker. No. 1,393,936; Oct. 18.
Shoe-case. Ventilation adjustment for. J. Piatkowski. No. 1,394,248; Oct. 18.
Shovel, Power-. F. E. Stills. No. 1,394,230; Oct. 18.
Signal: *See*—
Vehicle-signal.
Signal. G. R. Marston. No. 1,393,924; Oct. 18.
Signal. G. R. Marston. No. 1,393,925; Oct. 18.
Signal. G. R. Marston. No. 1,393,926; Oct. 18.
Signal. G. R. Marston. No. 1,393,929; Oct. 18.
Signaling system. W. C. White. No. 1,394,006; Oct. 18.
Signature-collecting mechanism. J. C. Theberath. No. 1,393,924; Oct. 18.
Silicon-steel sheets, Producing. V. B. Browne. No. 1,393,909; Oct. 18.
Skate, Roller. J. Muck. No. 1,393,813; Oct. 18.
Slicing-machine. S. Wile. No. 1,393,965; Oct. 18.
Snowplow, Rotary. O. T. Bekkerus. No. 1,393,985; Oct. 18.
Soda-fountain. F. T. Wiechert. No. 1,394,130; Oct. 18.
Sole and making. M. E. Johnson. No. 1,393,787; Oct. 18.
Sound-box. W. C. Kantner. No. 1,394,427; Oct. 18.
Sound-box. W. C. Kantner. No. 1,394,434; Oct. 18.
Soy, Quick method for brewing. M. Teghino. No. 1,394,238; Oct. 18.
Spark-plug coil. R. H. Whitaker. No. 1,393,866; Oct. 18.
Spark-plugs, Auxiliary sparking unit for. F. E. Wade. No. 1,394,426; Oct. 18.
Speed-changing unit. C. H. Ramsey. No. 1,393,906; Oct. 18.
Speed-signals, Electric switch for operating automobile. A. W. Olds. No. 1,394,111; Oct. 18.
Spinner, Trolling-. H. J. Kenney. No. 1,393,790; Oct. 18.
Spring: *See*—
Bed-spring.
Square. P. Matson. No. 1,394,323; Oct. 18.
Stamp, Time-. J. Levy. No. 1,394,179; Oct. 18.
Stamping-machine. J. Nagy. No. 1,394,353; Oct. 18.
Stand: *See*—
Christmas-tree stand. Pipe-vise stand.
Stand, stool, or other like article, Folding. S. W. Wardwell. No. 1,394,281; Oct. 18.
Static charges. Apparatus for discharging. J. H. Morgan. No. 1,394,211; Oct. 18.
Steam-engine. R. J. Armstrong. No. 1,393,780; Oct. 18.
Steel, Making. J. Hundley. No. 1,394,172; Oct. 18.
Step, Extension-. A. E. Seibert. No. 1,394,345; Oct. 18.
Stoker-furnace. J. S. Skelly. No. 1,393,979; Oct. 18.
Stopper and cleaning device, Combined. C. H. Bright, Jr. No. 1,394,139; Oct. 18.
Storage batteries, Separator-plate for. F. A. Colemen and J. J. Hofmann. No. 1,394,279; Oct. 18.
Storage-battery separator and producing same. H. L. Boyer. No. 1,394,408; Oct. 18.
Stove. J. W. Du Puy. No. 1,394,508; Oct. 18.
Stove, Automatic. J. M. Merritt. No. 1,394,421; Oct. 18.
Stove, Collapsible heating-. R. Wittenberger. No. 1,394,390; Oct. 18.
Stove, Combination reflector-. R. Wittenberger. No. 1,394,389; Oct. 18.
Stove lighter, Gas-. C. Fuhr. No. 1,393,880; Oct. 18.
Stoves and furnaces, Draft appliance for. H. P. Wilson. No. 1,394,287; Oct. 18.
Stringed instruments, Attachment for. A. Chechlinsky. No. 1,394,407; Oct. 18.
Submarine signaling. E. A. Fessenden. No. 1,394,432; Oct. 18.
Submarine signaling, Method and apparatus for. R. A. Fessenden. No. 1,394,469; Oct. 18.
Submarine, Observation apparatus for. E. A. Sperry. No. 1,393,944; Oct. 18.
Sulfite liquor and compound obtained therefrom, Treating waste. W. H. Dickerson. No. 1,394,151; Oct. 18.
Superheater boiler. A. D. Pratt. (Reissue.) No. 13,210; Oct. 18.
Support or bracket, Adjustable. J. R. Olthof. No. 1,394,446; Oct. 18.
Swing. J. F. Cushman. No. 1,393,774; Oct. 18.
Switch: *See*—
Cut-out switch. Electrical switch.
Electric switch.
Switch-operating device. C. H. Robinson. No. 1,393,998; Oct. 18.
Switch-operating mechanism. Automatic. H. T. Paul. No. 1,394,[illegible]; Oct. 18.
[illegible]. H. B. Marshall. No. 1,394,322; Oct. 18.
Tank, Fitting-valve for. A. E. Thompson. No. 1,394,[illegible]; Oct. 18.
Table. No. 1,394,[illegible]; Oct. 18.
Table, Attaching means for artificial. J. S. Fuller. No. 1,394,209; Oct. 18.
Telegraph system, Code-transposing apparatus for. D. McCallum. No. 1,394,[illegible]; Oct. 18.
Telephone-exchange system. H. P. Clemmer. No. 1,393,940; Oct. 18.
Telephone system, Automatic. T. G. Martin. No. 1,394,[illegible]; Oct. 18.
Temperature, Controlling means for motor. S. H. Page and J. S. Struble. No. 1,394,[illegible]; Oct. 18.
Terminal, Resistance-unit. W. C. White. No. 1,394,005; Oct. 18.
Testing-mold. H. M. Davis. No. 1,394,235; Oct. 18.
Thermostatic circuit-controlling apparatus. W. D. Coolidge. No. 1,394,145; Oct. 18.
Thermostatic. W. H. Pitts. No. 1,394,464; Oct. 18.
Thermosphone element. A. M. Van Doorn. No. 1,394,354; Oct. 18.
Thimble. G. J. Bailey. No. 1,394,304; Oct. 18.
Thread-twisteeing heads. L. Veilleux, F. H. Levesque, and J. Barnes. No. 1,393,926; Oct. 18.
Threads, Hood for spacing warp-. C. Lea. No. 1,394,431; Oct. 18.
Tiles and the like, Apparatus for edging. A. N. Savagnac. No. 1,394,392; Oct. 18.
Tinsel, and the like, Machine for making. B. M. Odum and H. D. Walker. No. 1,394,340; Oct. 18.
Tip-up seat. A. Main. No. 1,394,094; Oct. 18.
Tire. E. Grill. No. 1,393,773; Oct. 18.
Tire. H. H. Swan. No. 1,393,949; Oct. 18.
Tire-bands to rims, Apparatus for attaching. A. Weatherill. No. 1,394,164; Oct. 18.
Tire-calipers. E. M. Pierson. No. 1,394,247; Oct. 18.
Tire-casing. C. E. Miller. No. 1,393,982; Oct. 18.
Tire-chain guard. C. A. Bull. No. 1,393,742; Oct. 18.
Tire, Cushion. J. Saulsberry. No. 1,393,959; Oct. 18.
Tire, Emergency. P. M. Garcia. No. 1,394,410; Oct. 18.
Tire for vehicle-wheels, Cushion-. J. Konick. No. 1,394,255; Oct. 18.
Tire-lock cable, Automobile-. C. L. Johnson. No. 1,394,259; Oct. 18.
Tire-protector, Non-skid. E. W. Leach, Jr. No. 1,394,312; Oct. 18.
Tire-rim. C. N. Haufe. No. 1,394,000; Oct. 18.
Tire-rim for use on automobiles and other vehicles. T. W. Costello. No. 1,394,269; Oct. 18.
Tire setter, Rubber-. A. P. Berg. No. 1,394,460; Oct. 18.
Tires, Constructing pneumatic. F. S. Dickinson and J. Springer. No. 1,394,469; Oct. 18.
Tires, Deflation-alarm for. C. H. Scovee and G. C. Berlin. No. 1,394,264; Oct. 18.
Tires, Manufacture of. W. H. Fulton. No. 1,393,905; Oct. 18.
Toaster, Bread-. C. P. Sarle. No. 1,394,450; Oct. 18.
Tooth hob, Rectifiable. C. G. Olson. No. 1,393,818; Oct. 18.
Torpedo. R. S. R. Brandt. No. 1,394,271; Oct. 18.
Torpedo. J. B. Currier. No. 1,394,294; Oct. 18.
Toy. B. C. Hargreaves. No. 1,394,409; Oct. 18.
Toy. E. Lacey. No. 1,394,468; Oct. 18.
Toy, Combination. J. Wamst. No. 1,394,444; Oct. 18.
Toy engine. J. A. Bellantyne. No. 1,394,135; Oct. 18.
Toy, Gymnastic. J. Chojnik. No. 1,394,466; Oct. 18.
Toy vehicle. E. C. Cashner. No. 1,394,376; Oct. 18.
Toys, Motor mechanism for mechanical. A. Berger. No. 1,393,936; Oct. 18.
Tractor-feeder. J. E. Franklin. No. 1,394,105; Oct. 18.
Tractor. J. O. Heinze. No. 1,393,780; Oct. 18.
Tractor. J. L. Lake and F. D. McMahon. No. 1,394,000; Oct. 18.
Tractor-truck. A. G. and A. Rossing. No. 1,393,972; Oct. 18.
Tractor-wheel. G. Walther. No. 1,393,927; Oct. 18.
Tractors, Belt-guide for. E. B. Morgan. No. 1,394,106; Oct. 18.
Tractors, Control apparatus for. J. Meyer. No. 1,394,309; Oct. 18.
Tractors, Steering device for. H. Lutterbach. No. 1,394,[illegible]; Oct. 18.
Transmission, Change-speed. No. 1,394,[illegible]; Oct. 18.
Transformer, Water-cooled. H. O. Stephens. No. 1,394,044; Oct. 18.
Transmission. H. F. Stephens. No. 1,394,122; Oct. 18.
Transmission device. E. H. Wilson. No. 1,393,970; Oct. 18.
Transmission mechanism. C. B. Staley, E. H. Hosier, and H. W. Keagan. No. 1,394,125; Oct. 18.
Transmitting control, System of. B. J. Smith. No. 1,394,368; Oct. 18.
Trap: *See*—
Floating fish-trap.
Trolley-harp carrier. C. J. Dorrance. No. 1,394,507; Oct. 18.
Trolley or collector for electric tramway and railway vehicles, Overhead. T. Blaney and D. Williams. No. 1,393,939; Oct. 18.
Trousers and like press. N. V. Dyte. No. 1,394,290; Oct. 18.
Truck, Six-wheel equalizing-. J. A. Lamont. No. 1,393,793; Oct. 18.
Truck-wheel, Steel. G. Walther and P. W. Klinger. No. 1,393,928; Oct. 18.
Tube-cutting device. G. W. Simpson. No. 1,394,124; Oct. 18.
Tubular bodies, Machine for forming. E. Rendano. No. 1,394,116; Oct. 18.
Tuft-yarn spring-clip. A. T. Thompson. No. 1,394,050; Oct. 18.
Typewriting machine. F. W. Hilliard. (Reissue.) No. 13,209; Oct. 18.
Umbrella. P. L. Cook. No. 1,394,408; Oct. 18.
Unhairing-machine. R. C. Mischke. No. 1,393,809; Oct. 18.
Unit, Electric heating. C. C. Abbott. No. 1,393,732; Oct. 18.
Universal joint. A. B. Morse. No. 1,394,184; Oct. 18.
Unwinding apparatus. A. J. D. A. Vouigre. No. 1,393,985; Oct. 18.
Valve, Bottle-filling. C. S. Weitz. No. 1,393,864; Oct. 18.
Valve, Emergency-. C. D. Myer. No. 1,394,332; Oct. 18.
Valve, Fluid-pressure-regulating. C. L. Bastian. No. 1,394,285; Oct. 18.
Vending-machine indicator. E. B. Potts and A. D. Grover. No. 1,393,964; Oct. 18.
Vehicle. L. W. Wright. No. 1,393,870; Oct. 18.
Vehicle and axle therefor, Motor-. J. M. Lansden. No. 1,394,289; Oct. 18.
Vehicle-drive. E. S. Miller. No. 1,394,328; Oct. 18.
Vehicle, Motor-. E. L. Fitz Gibbon. No. 1,394,076; Oct. 18.
Vehicle, Motor-. J. O. Heinze. No. 1,393,779; Oct. 18.
Vehicle-signal. C. H. Georger. No. 1,394,000; Oct. 18.
Vehicle turner, Motor-. V. E. Funkhouser and A. M. Meyers. No. 1,394,480; Oct. 18.
Vehicle-wheel. W. W. De Long and J. A. Rook. No. 1,394,295; Oct. 18.
Vehicle-wheel, Cushion. W. B. Goodwin. No. 1,394,492; Oct. 18.
Vehicle-wheels, Antislipping attachment for. C. Moss. No. 1,393,810; Oct. 18.
Vehicles, Attachment for motor-. I. P. Perryman. No. 1,394,346; Oct. 18.
Vehicles, Front-wheel drive for. S. T. Hoener. No. 1,394,013; Oct. 18.
Vehicles, Rotary jack for. F. B. Urbano. No. 1,394,376; Oct. 18.
Vehicles, Sleigh attachment for auto-. O. T. Backlund. No. 1,394,514; Oct. 18.
Vehicles, Steering mechanism for. W. L. Spence. No. 1,393,981; Oct. 18.
Vehicles, Underslung attachment for motor-. W. G. Wheat. No. 1,394,242; Oct. 18.
Veneering, Skeleton core for. B. C. Rockwell. No. 1,394,119; Oct. 18.
Ventilator. G. Hanson. No. 1,393,775; Oct. 18.
Vise-operator. L. Salter. No. 1,393,934; Oct. 18.
Wagon, Dumping-. H. Page. No. 1,394,113; Oct. 18.
Wardrobe, Collapsible. M. L. Hall. No. 1,394,007; Oct. 18.
Washer: *See*—
Dish-washer.
Washer-saturating machine. C. A. Doran. No. 1,394,153; Oct. 18.
Washing-machine. W. C. Baesel. No. 1,394,267; Oct. 18.
Washing-machine. F. Rits and J. H. Brook. No. 1,393,969; Oct. 18.
Washing-machines, Driving mechanism for. W. F. Moran. No. 1,393,957; Oct. 18.
Water-motor. S. Neumann. No. 1,394,212; Oct. 18.
Weighing and sorting machine. R. W. Glasmer and M. Balcker. No. 1,394,167; Oct. 18.
Weighing device. F. Reichmann. No. 1,393,828; Oct. 18.
Wells, Drilling. J. A. and G. A. Fitzpatrick. No. 1,394,192; Oct. 18.
Wheel: *See*—
Gear-wheel. Resilient wheel.
Metal wheel. Traction-wheel.
Metal vehicle-wheel. Vehicle-wheel.
Power-wheel.
Wheel. E. P. Dickey. No. 1,394,477; Oct. 18.
Wheel. C. A. Sullivan. No. 1,394,372; Oct. 18.
Wheel. H. Yeakin. No. 1,394,461; Oct. 18.
Wheel-lock. D. J. Raddick. No. 1,394,219; Oct. 18.
Winding machine, Roll-. C. Knoth. No. 1,394,095; Oct. 18.
Windmill-power engine. S. E. Martin. No. 1,394,104; Oct. 18.
Window-catch. M. Dahlgren. No. 1,394,253; Oct. 18.
Window, Non-freezable. H. B. Valade. No. 1,394,237; Oct. 18.
Window-openings, Metal facing for inside of. G. A. Knapp. No. 1,393,792; Oct. 18.
Windshield. A. J. Stretch. No. 1,394,045; Oct. 18.
Windshield attachment. G. G. Gross. No. 1,394,084; Oct. 18.
Windshield-cleaner. H. C. Tripp. No. 1,394,052; Oct. 18.
Windshield-cleaner. H. C. Tripp. No. 1,394,053; Oct. 18.
Wire-coiling apparatus. M. Vogelsong. No. 1,394,378; Oct. 18.
Wire-reel. C. K. Warner. No. 1,394,382; Oct. 18.
Wireless transmission system, Valve of. C. E. Hiatt and W. J. Davis. No. 1,394,090; Oct. 18.
Wrapping articles, Machine for. C. O. Wachter. No. 1,394,240; Oct. 18.
Wrapping-machine. A. Feifer. No. 1,393,768; Oct. 18.
Wrapping or packaging machine. E. H. Angier. No. 1,394,266; Oct. 18.
Wrench: *See*—
Jar-wrench. Quick-adjustment wrench.
Wrench. A. M. Shenk, A., and L. Saltzer. No. 1,394,225; Oct. 18.
Wringers, Safety device for clothes-. W. A. Schnedler. No. 1,394,360; Oct. 18.
X-ray apparatus. W. D. Coolidge. No. 1,394,143; Oct. 18.
Zone, Mechanically-operated safety. C. Gore. No. 1,394,003; Oct. 18.

ALPHABETICAL LIST OF DESIGNS.

Automobile-panel. W. L. Pollard. Nos. 59,431–2; Oct. 18.
Automobile-signal. L. Voye. No. 59,444; Oct. 18.
Automobile-top. W. L. Pollard. Nos. 59,429–30; Oct. 18.
Automobiles, Signal-light for. J. H. Weber and J. B. Sturtevant. No. 59,439; Oct. 18.
Automobiles, Toe-plate for the running-boards of. C. C. Bergstrom. No. 59,404; Oct. 18.
Bait, Artificial. F. M. Smith. No. 59,436; Oct. 18.
Bottle-opener and door-lock, Combined. O. E. Bennett. No. 59,403; Oct. 18.
Can, Oil-. L. O. Brown. No. 59,407; Oct. 18.
Clothesline-holder. F. T. Murray. No. 59,427; Oct. 18.
Clothespin. H. White. No. 59,445; Oct. 18.
Collar-clasp. F. B. Byers. Nos. 59,408–9; Oct. 18.
Game-board. A. Romes-Cuillies and J. Cellier. No. 59,433; Oct. 18.
Hair-clipper. E. J. Rust. No. 59,434; Oct. 18.
Hair-cutting machines, Case for. E. V. N. Tomasulo. No. 59,440; Oct. 18.
Ice-box-door cleat. A. G. Hillebrecht, Jr. No. 59,420; Oct. 18.
Lighting-fixtures, Arm for. S. Kostszewski. No. 59,424; Oct. 18.
Lighting-fixtures, Back for. J. W. Schulze. No. 59,435; Oct. 18.
Lighting-fixtures, Fixture-arm for. T. Dale. No. 59,415; Oct. 18.
Lighting-fixtures, Ring for. S. Kostszewski. No. 59,425; Oct. 18.
Lighting-fixtures, Socket-cover for. T. Dahl. Nos. 59,413–14; Oct. 18.
Lighting-fixtures, Support-plate for. T. Dahl. Nos. 59,411–12; Oct. 18.
Match-box. W. Zebra. No. 59,447; Oct. 18.
Match-box holder. H. L. Beach. No. 59,402; Oct. 18.
Planing-machine frame. I. T. Howard. No. 59,421; Oct. 18.
Plate or similar article. A. Bihr. No. 59,406; Oct. 18.
Plate or similar article of tableware. H. C. Whorf. No. 59,446; Oct. 18.
Powder or similar articles, Container for sachet-. W. S. Stock. No. 59,438; Oct. 18.
Reflector. E. Zimmermann, Jr. No. 59,448; Oct. 18.
Rivet-punch. L. L. and C. C. Cailliet. No. 59,410; Oct. 18.
Sign, Advertising-. C. G. King. No. 59,423; Oct. 18.
Soap, Cake of. M. Finger. No. 59,416; Oct. 18.
Spoon, knife, fork or analogous utensil, Handle for. G. N. Allen. No. 59,401; Oct. 18.
Spoons, forks, or similar articles, Handle for. M. Bernstein. No. 59,405; Oct. 18.
Tire. R. S. Trogner. Nos. 59,441–3; Oct. 18.
Tire for motor-vehicles. G. Grow. No. 59,418; Oct. 18.
Tires, Non-skid tread for, airless or pneumatic. J. A. MacMillan. No. 59,426; Oct. 18.
Toy, Flying. R. D. Haworth. No. 59,419; Oct. 18.
Tread-belt link. C. S. Johnson. No. 59,422; Oct. 18.
Water-heater, Gas. J. O. Smith. No. 59,437; Oct. 18.
Windshield-wing. R. D. Parker. No. 59,428; Oct. 18.
Wrench, Socket-. D. F. Graham. No. 59,417; Oct. 18.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Acid, Fixing and developing. Arkansas Distributing Co. No. 147,474; Oct. 18.
Addressers, &c., Machines for printing. Addressograph Company. No. 147,447; Oct. 18.
Aqua-ammonia. National Ammonia Company. No. 147,503; Oct. 18.
Automobile and furniture polish. H. L. Feasel. No. 147,483; Oct. 18.
Automobile-rim tools. K. P. Products Co. No. 147,461; Oct. 18.
Automobiles accessories, Certain electric. Superior Lamp M'f'g. Co. No. 147,522; Oct. 18.
Ball-bearings. U. S. Ball Bearing Manufacturing Company. No. 147,525; Oct. 18.
Beverage and syrup for making same, Non-alcoholic malt-less. Hurty-Peck & Company. No. 147,491; Oct. 18.
Beverage and syrup for making same, Non-alcoholic malt-less. John Mulhern Company. No. 147,501; Oct. 18.
Beverage and syrup for making same, Non-alcoholic malt-less. Kansas City Kola Company. No. 147,493; Oct. 18.
Beverages and extract for making same, Non-alcoholic malt-less. Lehman-Rosenfeld Company. No. 147,494; Oct. 18.
Books, Check-. Standard Check Book Co. No. 147,518; Oct. 18.
Boxes, Mailing-. Mason Box Company. No. 147,498; Oct. 18.
Bread, Rye. A. S. Beville. No. 147,477; Oct. 18.
Candles. L. S. Lowrey. No. 147,495; Oct. 18.
Candles and canned soups. H. J. Groenhut. No. 147,489; Oct. 18.
Canned fruits and vegetables. Filice & Perrelli Canning Co. No. 147,485; Oct. 18.
Carpets and rugs. W. A. W. Davis Corp. No. 147,452; Oct. 18.
Castings, Bronze. Thomas Paulson & Son. No. 147,510; Oct. 18.
Clothing—namely, stockings and socks. A. I. Ludwig. No. 147,460; Oct. 18.
Coffee. Chase & Sanborn. No. 147,463; Oct. 18.
Coke-plates, black sheets, and black sheets blued. Newton Steel Company. No. 147,506; Oct. 18.
Cotton goods in the piece. Trion Company. No. 147,524; Oct. 18.
Cycles and motorcycles, Driving-chains for. Charles H. Pugh Limited. No. 147,513; Oct. 18.
Dies, reamers, taps, &c. Camden Manufacturing Company. No. 147,450; Oct. 18.
Dyes, dyestuffs, and colors. National Aniline & Chemical Company. No. 147,502; Oct. 18.
Egg-boilers, Time-controlled. Perfect Automatic Egg Timer and Manufacturing Company. No. 147,512; Oct. 18.
Electric searchlights and electric-lighting outfits and fixtures. Southland Steamship Company. No. 147,516; Oct. 18.
Engines and turbines and sawmill and woodworking machinery, Certain. A. H. Morner. No. 147,499; Oct. 18.
Engines, Temperature-indicating devices for. Motometer Company. No. 147,500; Oct. 18.
Engines with certain equipment and hand fire-extinguishers, Chemical fire-. Obenchain-Boyer Co. No. 147,507; Oct. 18.
Eyeglass frames and mountings. New Jersey Optical Co. No. 147,505; Oct. 18.
Flour and maple-syrup, Pancake-. Fishback Co. No. 147,480; Oct. 18.
Foods, Cereal breakfast. Kellogg Toasted Corn Flake Company. Nos. 147,454–5; Oct. 18.
Foods, Certain. Gannon Grocery Company. No. 147,487; Oct. 18.
Foods, Flaked cereal. Kellogg Toasted Corn Flake Co. No. 147,453; Oct. 18.
Furniture-polish. F. Burgener. No. 147,449; Oct. 18.
Garters, armbands, suspenders. S. Rubin. No. 147,462; Oct. 18.
Grinding-machines and parts thereof. M. J. Davidson. No. 147,451; Oct. 18.
Hats and caps, Felt. John B. Stetson Company. No. 147,464; Oct. 18.
Insulators, Porcelain. J. H. Parker & Son. No. 147,509; Oct. 18.
Iron and steel sheets and plates, &c., Rolled. American Sheet and Tin Plate Company. Nos. 147,469–73; Oct. 18.
Jacketed receptacles, Vacuum-. Stanley Insulating Company. No. 147,519; Oct. 18.
Lacing, Cotton belt-. G. W. Southwick. No. 147,517; Oct. 18.
Lathes and dies for cutting threads on screws, &c. Jones & Lamson Machine Company. No. 147,492; Oct. 18.
Lime phosphate. American Agricultural Chemical Company. No. 147,467; Oct. 18.
Mayonnaise-machines. National Mayonnaise Machine Co. No. 147,504; Oct. 18.
Metals, types, slugs, type-castings, &c., Certain. Barnhart Brothers & Spindler. No. 147,475; Oct. 18.
Motors, Gasolene-. Hares' Motors Inc. No. 147,490; Oct. 18.
Nails. Eastern Nail Company. No. 147,481; Oct. 18.
Oil, Lubricating-. C. L. Maguire Petroleum Co. No. 147,497; Oct. 18.
Oils and greases, Lubricating. Cee & Vee Products Co. No. 147,479; Oct. 18.
Paint and varnish remover. Schaik Chemical Company. No. 147,514; Oct. 18.
Paper for wiping ink from the face of dies. Paper Manufacturers Co. No. 147,508; Oct. 18.
Papers and mailing-envelope, Writing-. Whiting Paper Company. No. 147,527; Oct. 18.
Peanut-butter. Kellogg Toasted Corn Flake Co. No. 147,456; Oct. 18.
Phonographs. Federal Electric Company. No. 147,484; Oct. 18.
Piano and furniture polish. Thompson-Denton Co. No. 147,523; Oct. 18.
Picture-projecting machines and parts thereof, Motion-. Graphoscope Company. No. 147,488; Oct. 18.
Plumbing supplies, Certain. Penn Brass Manufacturing Co. No. 147,511; Oct. 18.
Pocketbooks. John Stember & Co. No. 147,520; Oct. 18.
Raincoats, waterproof overalls and jumpers, leggings. Dickson Raincoat Co. No. 147,453; Oct. 18.
Rectifiers for alternating currents. St. Louis Electrical Works. No. 147,521; Oct. 18.
Shoes, Wear-plates for. Betts Sole Protector Company. No. 147,476; Oct. 18.
Slaw-cutters. Bluffton Slaw Cutter Co. No. 147,478; Oct. 18.
Sole of the foot, Supports for the. A. E. Block. No. 147,448; Oct. 18.
Spark-plugs. M. E. Lyons. No. 147,496; Oct. 18.
Speedometers, Replacement parts for. F. W. Stewart Manufacturing Corporation. No. 147,466; Oct. 18.
Spoon holders, Soda-. G. S. Ward. No. 147,526; Oct. 18.
Steels and alloys. Ludlum Steel Company. No. 147,459; Oct. 18.
Tanks. Youngstown Boiler & Tank Co. No. 147,528; Oct. 18.
Tea and coffee. Kellogg Toasted Corn Flake Co. No. 147,457; Oct. 18.
Telephone-poles and the like, Cross-arms for. American Line Materials Company. No. 147,468; Oct. 18.
Thermometers. Eimer & Amend. No. 147,482; Oct. 18.
Thread and yarn. Stevens Yarn Company. No. 147,465; Oct. 18.
Tire and tube repairs, Rubber. Continental Rubber Co. No. 147,480; Oct. 18.
Wrenches. Snap-On Wrench Company. No. 147,515; Oct. 18.

ALPHABETICAL LIST OF LABELS.

"All Saints." (For Cigars.) All Saints Cigar Co. Nos. 23,440–1; Oct. 18.

"Ambrosia Milk Chocolates." (For Boxes of Candy.) Ambrosia Milk Chocolate Cream Co. No. 23,442; Oct. 18.

"Big Sam." (For Overalls and Work-Shirts.) Standard Overall Company. No. 23,502; Oct. 18.

"Brer Fox." (For Corn-Syrup and Refiner's Syrup.) Penick & Ford, Ltd., Inc. No. 23,490; Oct. 18.

"Brosme's Old Virginia." (For Fruit Cake.) The L. Brosme Baking Co. No. 23,446; Oct. 18.

"Butter-Krust." (For Bread.) W. Freihofer. No. 23,457; Oct. 18.

"Catalina Brand." (For Canned Tuna Fish.) International Packing Corporation. No. 23,472; Oct. 18.

"Chèri Kisses (Dearie)." (For Candy Kisses.) Chèri Inc. No. 23,447; Oct. 18.

"Clover Blossom." (For Cheese.) G. A. Stallman. No. 23,501; Oct. 18.

"Cordial Cherries." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 23,464; Oct. 18.

"Crème Tokalon." (For Receptacles and Packages Containing Toilet Creams.) International Consolidated Chemical Corporation Inc. No. 23,471; Oct. 18.

"Crown Malt Extract." (For Cans Containing Malt Extract.) The Crown Brewing Company. No. 23,449; Oct. 18.

"Dairy Maid Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,481; Oct. 18.

"Delicious M-B." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,483; Oct. 18.

"Dentolene." (For a Preparation for the Treatment of Pyorrhea Alveolaris, Spongy, Bleeding, or Receding Gums, and for an Oral Prophylactic or Mouth-Wash.) Haris Bros. No. 23,469; Oct. 18.

"Direct Manufacturer Feeder." (For Animal and Poultry Feed.) Thomas-Boyce Direct Feed Company.) No. 23,505; Oct. 18.

"Double Life." (For Safety-Razors and Safety-Razor Blades.) Gem Safety Razor Corporation. No. 23,460; Oct. 18.

"Dr. Price's Rolled Oats." (For Packages Containing Cereal Rolled Oats.) Price Food Products Corporation. No. 23,493; Oct. 18.

"Dubl-Rub Motor Car Polish and Cleaner." (For Automobiles.) J. W. MacCann. No. 23,477; Oct. 18.

"Ejecto." (For Mouthpiece-Holders for Cigarette Products.) Ejecto Cigarette Holder Co. No. 23,451; Oct. 18.

"Empire Baking Powder." (For Baking-Powder.) Empire Food Products Company. No. 23,455; Oct. 18.

"Empire Choc-O-Lette." (For a Powder Containing Cocoa, Sugar, and Skimmed Milk for Making a Beverage.) Empire Foods Products Company. No. 23,452; Oct. 18.

"Empire Powdered Milk." (For Powdered Skimmed Milk.) Empire Food Products Company. No. 23,456; Oct. 18.

"Formostive the Supermalt Syrup." (For Malt Syrups and Extracts.) A. Wehl. No. 23,506; Oct. 18.

"Globe 'A1.'" (For Baby-Pig Feed.) Globe Grain & Milling Company. No. 23,462; Oct. 18.

"Golden Crust." (For Bread.) Rose and Weintraub Baking Company. No. 23,498; Oct. 18.

"Golden-Hen." (For Boxes, Kegs, and Barrels Containing Golden-Hen, a Diluted Mixture of Certified Colors.) B. Heller & Co. No. 23,467; Oct. 18.

"Goubey." (For Candy.) Kellogg Sugar Products Company. No. 23,473; Oct. 18.

"Hale's Phenalene." (For Medicine for Nervous Affections of Women.) E. B. Hale. No. 23,464; Oct. 18.

"Ha-Mi-La." (For Candy—Nemesly, Bar-Candy.) Heit Miller Lau Co. No. 23,466; Oct. 18.

"Hold-Phast." (For Hair-Nets.) Richmond Sundry Company, Inc. No. 23,497; Oct. 18.

"Italy Brand." (For Macaroni.) G. Matalone. No. 23,479; Oct. 18.

"J D." (For Receptacles Containing Rubber Heels.) Counterbalance Rubber Heel Co. No. 23,448; Oct. 18.

"Jack Frost Syrup." (For Containers for Table-Syrup.) American Sugar Products Corporation. No. 23,444; Oct. 18.

"Klean-Glas." (For Liquid for Cleaning Glass.) E. Earl. No. 23,450; Oct. 18.

"Kleodore Toilet Cream." (For Bottles Containing Kleodore Toilet Cream.) T. P. Klee. No. 23,474; Oct. 18.

"Lowrey's Pralines." (For Pecan Candy.) L. S. Lowrey. No. 23,476; Oct. 18.

"Magic Salve." (For Salve for Rheumatism and Inflammatory Troubles.) E. Gambichler. No. 23,459; Oct. 18.

"Marmon." (For Cigars.) D. Foster. No. 23,456; Oct. 18.

"Mephisto a Devil-ish Good Smoke." (For Cigar-Boxes and Cigars.) H. N. Rasels. No. 23,494; Oct. 18.

"Mme J. H. Lane's 'Over The Top' Hair Cream." (For Containers of the Aforesaid Hair-Cream.) Mrs. J. H. Lane. No. 23,475; Oct. 18.

"Morgan's Magical Cold Cream." (For Cold-Cream.) S. H. Morgan Manufacturing Company. No. 23,485; Oct. 18.

"Mowry's Golden Glow Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,482; Oct. 18.

"Northrup, King & Co.'s Sterling Buttermilk Mash." (For Bags of Poultry Feed.) Northrup, King & Co. No. 23,487; Oct. 18.

"Parfait." (For Hair-Nets.) Pagoda Import Company, Inc. No. 23,488; Oct. 18.

"Pillsbury's Toasted Nut Kisses." (For Candy.) J. C. Pillsbury. No. 23,491; Oct. 18.

"Pingree's Old Glory Brand." (For Coffee.) C. H. Pingree. No. 23,492; Oct. 18.

"Princess Hair Net." (For Hair-Nets.) Sugerman Bros. No. 23,503; Oct. 18.

"Puritan Malt Sugar Syrup." (For Malt-Sugar Syrup.) J. E. Magnus. No. 23,478; Oct. 18.

"Red Top." (For Tin Cans Containing Malt Extracts.) Red Top Malt Extract Co. No. 23,495; Oct. 18.

"Reelegg Eggs in Powdered Form." (For Eggs in Powdered Form.) Empire Food Products Company. No. 23,454; Oct. 18.

"Regina Hair Net." (For Hair-Nets.) S. Glemby's Sons Co., Inc. No. 23,461; Oct. 18.

"Riect." (For a Rice Food.) Rice Products Co. Inc. No. 23,496; Oct. 18.

"Runwel." (For Twisted Packing for Valve-Stems.) Greene, Tweed & Co. No. 23,463; Oct. 18.

"Schnarr's Spray Formula." (For Materials Employed in Spraying Vegetation.) J. Schnarr & Company. No. 23,499; Oct. 18.

"Servus Manufacturer Feeder." (For Animal and Poultry Feed.) Thomas-Boyce Direct Feed Company. No. 23,504; Oct. 18.

"Silverkist Syrup." (For Containers for Table-Syrup.) American Sugar Products Corporation. No. 23,443; Oct. 18.

"Snow Drop." (For Foot-Salve.) L. L. E. Pedrick. No. 23,489; Oct. 18.

"Sowega." (For Watermelons.) Southwest Georgia Watermelon Growers Association. No. 23,500; Oct. 18.

"Spring-Ess." (For Rust-Solvent Lubricant.) Halstead Specialties Co. No. 23,465; Oct. 18.

"The Wizard." (For Educational Games and Toys.) Fulton Specialty Co. No. 23,458; Oct. 18.

"Tokalon Eyebrow Pencils." (For Receptacles and Packages Containing Eyebrow-Pencils.) International Consolidated Chemical Corporation, Inc. No. 23,470; Oct. 18.

"Van Ruba Calf." (For Calf-Leather.) Barnet Leather Co. Inc. No. 23,445; Oct. 18.

"Waukesha Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,480; Oct. 18.

"Weston's Special Malt Syrup." (For Cans Which Contain Pure Barley and Malt-Syrup.) E. J. Weston. No. 23,507; Oct. 18.

"Wink." (For 6½ Oz. Bottles Containing a Delicious Drink Made from Orange and other Similar Flavors.) Muscalet Beverage Company. No. 23,486; Oct. 18.

"Zanzibar-Brand Fly Chaser." (For Containers Holding Zanzibar-Brand Fly-Chaser, a Preparation for Chasing Flies from Cattle, Horses, Dogs, and Animal-Quarters.) B. Heller & Co. No. 23,468; Oct. 18.

ALPHABETICAL LIST OF PRINTS.

"A Delightful Summer Specialty." (For Advertising Purposes for Frankfurt-Style Sausage.) Swift & Company. No. 5,799; Oct. 18.

"America's Choice." (For Advertising Purposes for Adams Black Jack Chewing-Gum.) American Chicle Co. No. 5,768; Oct. 18.

"Authorized Color Card Showing Season's Latest Shade." (For Advertising Purposes for Hosiery.) Real Silk Hosiery Mills. No. 5,796; Oct. 18.

"Beech-Nut Peanut Butter." (For Advertising Purposes for Beech-Nut Peanut-Butter.) Beech-Nut Packing Co. No. 5,770; Oct. 18.

"Beech-Nut Ginger Ale." (For Advertising Purposes for Beech-Nut Ginger-Ale.) Beech-Nut Packing Co. No. 5,771; Oct. 18.

"Canada's Best Furs." (For Advertising Purposes for Furs.) Canadian Fur Traders. No. 5,777; Oct. 18.

"Coffee or Tea—Chase & Sanborn's for Me." (For Advertising Purposes for Coffee and Tea.) Chase & Sanborn. No. 5,779; Oct. 18.

"Colorite." (For Advertising Purposes for Colorite.) Carpenter-Morton Co. No. 5,778; Oct. 18.

"Easy to Keep Fresh Easy to Carry Home in a Papercan." (For Advertising Purposes for Paper Cans.) The Papercan Corporation. No. 5,795; Oct. 18.

"Exclusive Features of Real Silk Fashioned Hosiery." (For Advertising Purposes for Hosiery.) Real Silk Hosiery Mills. No. 5,797; Oct. 18.

"Flashlight Lamps." (For Advertising and Display Purposes for Flashlight-Lamps.) W. G. Lens. No. 5,788; Oct. 18.

"Foot Prints Shop." (For Advertising Purposes for Shoes.) Consolidated Shoe Company, Inc. No. 5,780; Oct. 18.

"For Real Flavor Serve Beech-Nut Jellied Fruit." (For Advertising Purposes for Beech-Nut Jellied Fruit.) Beech-Nut Packing Co. No. 5,774; Oct. 18.

"Frozen In." (For Advertising Purposes for Fire-Extinguishing Apparatus.) Foamite Firefoam Company. No. 5,783; Oct. 18.

"Handy Candy Cloves Flavor." (For Advertising Purposes for Beech-Nut Brand Handy Candy.) Beech-Nut Packing Co. No. 5,773; Oct. 18.

"Haynes 50 the Smaller and Lighter Haynes Car." (For Advertising Purposes for Automobiles.) The Haynes Automobile Company. No. 5,785; Oct. 18.

"Ice Cream Easy to Carry Home in a Papercan." (For Advertising Purposes for Papercans.) The Papercan Corporation. No. 5,794; Oct. 18.

"I'm Sure it must be important, Jenkins, or you wouldn't disturb me now." (For Advertising Purposes for Crane's Linen Lawn and Eaton's Highland Linen.) Eaton, Crane & Pike Company. No. 5,782; Oct. 18.

"Jannetta." (For Advertising Purposes for Hair-Nets.) M. Herzog. No. 5,786; Oct. 18.

"Keep That School Girl Complexion." (For Advertising Purposes for Palmolive Soap.) Palmolive Company, The. No. 5,792; Oct. 18.

"Kelly Softseat Bed Davenport." (For Advertising Purposes for Bed-Davenports.) J. A. Kelly & Brothers. No. 5,787; Oct. 18.

"Ladish Quality." (For Advertising Purposes for Flour.) Aultman Inc. No. 5,769; Oct. 18.

"Memorial Day." (For Advertising Purposes for Bread.) Oswald Jaeger Baking Co. No. 5,791; Oct. 18.

"Nyoil." (For Advertising Purposes for Nyoil, a Lubricant.) J. K. Nye. No. 5,790; Oct. 18.

"Quality Ever Maintained." (For Advertising Purposes for Athletic Underwear.) The B. V. D. Company. No. 5,775; Oct. 18.

"Remington UMC for Shooting Right." (For Advertising Purposes for Remington UMC Shot-Shells and Shotguns.) Remington Arms UMC Co. No. 5,798; Oct. 18.

"Sapolin." (For Advertising Purposes for Stovepipe-Enamel.) Gerstendorfer Bros. No. 5,784; Oct. 18.

"Sterling Cream." (For Advertising Purposes for Cream.) F. E. Cryder. No. 5,781; Oct. 18.

"Take Home Some Ice Cream in a Papercan." (For Advertising Purposes for Papercans.) The Papercan Corporation. No. 5,793; Oct. 18.

"Tetlow's Pussywillow Powder." (For Advertising Purposes for Tetlow's Pussywillow Face-Powder.) H. Tetlow Co. No. 5,800; Oct. 18.

"The Halliwell 'Turtle' Curling Stove." (For Advertising Purposes for Curling-Irons.) R. H. Brown. No. 5,776; Oct. 18.

"The Handy Candy." (For Advertising Purposes for Handy Candy.) Beech-Nut Packing Co. No. 5,772; Oct. 18.

"The Merrow Machine Company." (For Advertising Purposes for Sewing-Machines, Including Overseaming, Overedging, and Shell-Stitch Machines and the Products Thereof.) The Merrow Machine Company. No. 5,789; Oct. 18.

"Welsbach Gas Heater." (For Advertising Purposes for Gas-Heaters.) Welsbach Co. No. 5,801; Oct. 18.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Alcohol, Ethyl. Western Industries Co. No. 152,355; Oct. 18.

Alcohol, Solvent and menstruum and substitute for ethyl. Electro Chemical Refineries, Inc. No. 150,523; Oct. 18.

Alcoholic solvent. Roasville Company. No. 151,232; Oct. 18.

Antiseptic and eczema preparation. J. Miller. No. 134,422; Oct. 18.

Antiseptic and prophylactic solution. Ohio Valley Drug Company. No. 151,329; Oct. 18.

Arsenic complexion-wafers. R. Fink. No. 149,448; Oct. 18.

Auto-body polish, polishing-wax, liquid tire-cover, &c. R. M. Hollingshead Co. No. 149,138; Oct. 18.

Bakery products. Holland-American Wafer Co. No. 148,142; Oct. 18.

Batteries, Electric storage. D. Levitt. No. 147,434; Oct. 18.

Batteries, Solution for all makes of lead-plate. Why-Sol Battery Solution Company. No. 150,339; Oct. 18.

Batteries, Storage. Eureka Battery Company. No. 144,078; Oct. 18.

Beds, cribs, couches, and springs and mattresses therefor, Metal. Quality Mattress Company. No. 148,853; Oct. 18.

Bedspreads and couch-covers. F. C. Huyck & Sons. No. 143,604; Oct. 18.

Bedsteads and cribs, Metal. Meraereau Metal Bed Company. No. 150,762; Oct. 18.

Benches, Piano-. Took Manufacturing Co. No. 141,814; Oct. 18.

Beverage and syrup for making same, Non-alcoholic. T. B. Kane. No. 151,718; Oct. 18.

Beverage and syrups for making same, Non-alcoholic, maltless. Orange Crush Company. No. 149,927; Oct. 18.

Bird seeds and foods. Heger Bird Co. No. 142,077; Oct. 18.

Books published periodically, Series of. Grosset & Dunlap. Nos. 148,879–80; Oct. 18.

Boots, shoes, and slippers. Rice & Hutchins. No. 106,587; Oct. 18.

Burner equipments sold as a complete system for furnaces, ranges, and stoves. Cleveland Gas Burner & Appliance Co. No. 139,509; Oct. 18.

Cabinets, Kitchen-. McDougall Company. No. 150,018; Oct. 18.

Cabinets, Kitchen-. G. I. Sellers & Sons Company. No. 150,474; Oct. 18.

Candies. Rogers Candy & Ice Cream Co. No. 149,653; Oct. 18.

Candy. Gorton Chocolate Company, Inc. No. 148,384; Oct. 18.

Candy, cake, bread, and pastry. United Candy & Pastry Company. No. 147,694; Oct. 18.

Candy, Chocolate-coated. Cardinet Candy Company. No. 148,872; Oct. 18.

Canned fish. K. Hoyden Company. No. 134,953; Oct. 1[illegible]

Carbon-remover, Chemical. H. E. Vassar. No. 144,948; Oct. 18.

Cartoons, Series of. Tribune Company. Nos. 147,058–9; Oct. 18.

Cartoons, Series of. Tribune Company. Nos. 147,061–3; Oct. 18.

Cider and grape-juice. Roscoe Haegelin Co. No. 152,277; Oct. 18.

Cigarettes. Frishmuth Bros. & Company. No. 141,263; Oct. 18.

Cigars. F. J. Mackey. No. 140,194; Oct. 18.

Cigars. J. C. Newman Cigar Company. No. 140,898; Oct. 18.

Cigars. M. Rosenthal. No. 141,392; Oct. 18.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Cigars. G. W. Van Slyke & Horton. No. 140,761; Oct. 18.
Cleaners, Containers for the dust, &c., taken from vacuum-. M. M. Mammert. No. 148,977; Oct. 18.
Cleaners, Jewelers', metal, and electroplaters'. Chemical Sales Company. No. 145,439; Oct. 18.
Cleaning preparations having water-softening properties. Noyes Bros. & Cutler. No. 149,419; Oct. 18.
Clocks. Irokese Trading Corporation. No. 146,487; Oct. 18.
Coal and cord-wood. H. L. Goodwin. No. 152,843; Oct. 18.
Coffee. A. Curtze. No. 148,369; Oct. 18.
Coffee. K. B. Millar & Company. No. 143,991; Oct. 18.
Coffee, cocoa, and chocolate. Royal Cocoa Co. No. 146,086; Oct. 18.
Compound for treating corns, calluses, warts, and bunions. J. C. Milligan. No. 150,020; Oct. 18.
Condiment sets, sandwich-plates, horse-radish jars, syrup-pitchers, &c. Rochester Stamping Company. No. 136,765; Oct. 18.
Cookies and crackers of all kinds. Pacific Coast Biscuit Co. No. 147,456; Oct. 18.
Cotton piece goods. Morton Sundour Fabrics, Ltd. No. 148,338; Oct. 18.
Cotton thread, and cotton yarn, Spool and sewing. American Thread Company. No. 150,291; Oct. 18.
Creams, Beauty-. M. Levinstein. No. 149,916; Oct. 18.
Cream for softening and beautifying the skin, Massage-. M. & S. Co. No. 149,198; Oct. 18.
Crib for children, Folding. E. M. Trimble. No. 150,412; Oct. 18.
Cushions. Jesal Company. No. 150,749; Oct. 18.
Disinfectants, disinfecting fluids or essences. "Perolin" Fabrikationsgesellschaft m. b. H. No. 149,816; Oct. 18.
Dolls. Atlas Doll Company. No. 152,201; Oct. 18.
Dolls. George Borgfeldt & Co. No. 152,461; Oct. 18.
Ducks, Live and dressed. Farmers' Commission House Inc. No. 149,505; Oct. 18.
Dyes for hair and beard, dentifrices, perfumery, &c. E. Schueller. No. 144,158; Oct. 18.
Electrodes for electric furnaces and electrolyte operations. National Carbon Company. No. 147,842; Oct. 18.
Elixir rhubarb alkaline with pancreatin. Ohio Valley Drug Company. No. 151,320; Oct. 18.
Embroidery-work, knitting-work, crocheting-work, &c. James Lees and Sons Company. No. 149,050; Oct. 18.
Feed, Poultry-. Omaha Alfalfa Milling Company. No. 147,982; Oct. 18.
Fish food. Heger Bird Company. No. 142,076; Oct. 18.
Flavoring compound used in preparing beverages. Eng-Skell Company. Nos. 142,832–3; Oct. 18.
Flooring in blocks and sheets, Composition. Junius H. Stone Corporation. No. 150,712; Oct. 18.
Flooring mainly of mastic material and like mastic materials for use in laying such flooring. Insulite Chemical Company. No. 145,269; Oct. 18.
Flooring,-Stucco and composition. Dorite Manufacturing Company. No. 150,007; Oct. 18.
Flounces, embroideries, bandings, and skirtings in the piece. G. Sidenberg & Co. Nos. 149,863–4; Oct. 18.
Flour, Wheat-. Texas Star Flour Mills. No. 145,243; Oct. 18.
Fruits, berries, and vegetables, jams, nuts, &c., Dried, canned, and fresh. Oregon Growers Cooperative Assn. No. 147,450; Oct. 18.
Fruits, fruit syrups, and beverages made therefrom, Crushed. Schuster Company. No. 140,150; Oct. 18.
Furniture. Hadley Company. No. 140,995; Oct. 18.
Furniture and metal cleaning preparation. F. Stover. No. 147,943; Oct. 18.
Garters. Douley No-Pin Garter Company. No. 136,789; Oct. 18.
Gasolene. Refino Company. No. 152,139; Oct. 18.
Ginger-ale, ginger-beer, sarsaparilla, and bottled soda-water. Cantrell & Cochrane. No. 150,185; Oct. 18.
Ginger-ale, root-beer, mineral and soda waters. Milwaukee-Waukesha Brewing Company. No. 150,021; Oct. 18.
Glue. Baeder Adamson Company. No. 150,844; Oct. 18.
Golf balls, bags, and clubs. J. Grondahl. No. 152,747; Oct. 18.
Gowns, coats, suits, and furs. Worth, Inc. No. 138,736; Oct. 18.
Grapes, Fresh. Associated Fruit Co. No. 148,864; Oct. 18.
Hair-dressing. Lewis Brothers. No. 150,262; Oct. 18.
Hair-dye remover. Western Hair Goods Co. No. 144,115; Oct. 18.
Hair-nets. N. Seligman. No. 152,522; Oct. 18.
Hair remover, Superfluous-. M. Wunder. No. 129,616; Oct. 18.
Hair-restorative. Armstrong Chemical Company. No. 150,212; Oct. 18.
Hair-restorer. W. E. Riley & Company. No. 149,524; Oct. 18.
Hair-toner. P. H. Jackson. No. 150,014; Oct. 18.
Hair-tonic. J. H. Bishop. No. 150,213; Oct. 18.
Hair-tonic. M. Rowe. No. 150,156. Oct. 18.
Hair-tonics. L. B. Franchina. No. 131,728; Oct. 18.
Harness-bits, stirrups, harness buckles and rings, chains, &c. Hadfields Limited. No. 136,256; Oct. 18.
Hog-cholera, Preparation to be used in treatment of. National Laboratories Inc. No. 147,171; Oct. 18.
Horses and mules. R. A. Fairbairn. No. 141,490; Oct. 18.
Hose reel, Air-. O. Stroberger. No. 145,658; Oct. 18.
Hosiery. Goldstein-Lasar Company. No. 154,123; Oct. 18.
Hosiery. Hosiery Clearing House. No. 116,896; Oct. 18.
Hosiery, Silk, linen, and cotton. A. H. Wittenberg. No. 147,491; Oct. 18.
Ice-cream. E. B. Harrer. No. 149,752; Oct. 18.
Ink varnish, Printers'. E. B. Bossard. No. 142,817; Oct. 18.
Insecticide. Jensen Barsha Combination Spray Co. Nos. 151,362–4; Oct. 18.
Insecticides. Edward C. Hodstra Company. No. 150,269; Oct. 18.
Insecticides for the destruction of flies, fleas, &c. G. Philbert. No. 151,378; Oct. 18.
Intestinal disinfectant. H. T. A. Becker. No. 147,185; Oct. 18.
Leather, Artificial. Cotaroid Company. No. 146,480; Oct. 18.
Linoleum. Tileoleum Limd. No. 151,511; Oct. 18.
Lotion, Skin-. D. L. Rittenhouse. No. 143,362; Oct. 18.
Lubricating-oils, gasolene, mineral wax, lubricating-grease, &c. Tide Water Oil Company. No. 152,393; Oct. 18.
Lubricating-oils, gasolene, mineral wax, lubricating-grease, &c. Tide Water Oil Company. Nos. 152,400–02; Oct. 18.
Magazine, Monthly. Long Printing Company. No. 147,522; Oct. 18.
Magazines, Monthly. B. E. Barnes. No. 150,843; Oct. 18.
Mallines, tulles, and nettings in the piece. Herbert B. Lederer Co. Inc. No. 152,471; Oct. 18.
Mantles, Gas-. Lindsay Light Company. No. 144,624; Oct. 18.
Mattresses. Sugarland Industries. No. 152,220; Oct. 18.
Mayonnaise dressing. "Kelly Busy Corner" Company. No. 148,161; Oct. 18.
Medical compound for the treatment of consumption. D. De Leary. No. 148,649; Oct. 18.
Medical compound for the treatment of venereal diseases. York Laboratories Company. No. 150,125; Oct. 18.
Medical preparation used in the treatment of epidemic influenza, pneumonia, &c. Belasmea Co. No. 152,719; Oct. 18.
Medical tablets, Hemoglobin. E. F. Mattatat. No. 144,341; Oct. 18.
Medicinal dye. Merck & Co. No. 145,905; Oct. 18.
Medicinal powder, Poultry. G. Lanka. No. 142,084; Oct. 18.
Medicinal preparation for colds, la grippe, headaches, &c. L. Greengard. No. 148,492; Oct. 18.
Medicinal preparation for hay-fever. J. A. Arnold. No. 142,771; Oct. 18.
Medicinal preparation for poultry. Vaycide Chemical Corporation. Nos. 147,484–5; Oct. 18.
Medicinal preparation for the treatment of diseases of the female organs. J. Brockhoff. No. 151,575; Oct. 18.
Medicinal preparation for the treatment of liver, kidneys, nerves, impure blood, &c. A. K. Johnson. No. 144,333; Oct. 18.
Medicinal tablet for prevention of attacks of epilepsy. J. F. L. Zingre. No. 150,423; Oct. 18.
Medicine, Blood-purifying. A. Satr. No. 151,294; Oct. 18.
Medicine for rheumatism. L. Thornton. No. 147,139; Oct. 18.
Medicine for use as a blood-purifier. S. M. Booth. No. 150,307; Oct. 18.
Medicine for use in the treatment of headaches, &c. J. L. Mackay. No. 148,606; Oct. 18.
Medicine, Indigestion and stomach. J. J. Wiley. No. 149,944; Oct. 18.
Medicine to be used in treatment of asthma, hay-fever, &c. H. H. Wilder. No. 149,990; Oct. 18.
Medicine used in the treatment of the blood. J. C. Schmidt. No. 150,578; Oct. 18.
Metal tokens or saving-checks. S. P. Folts. No. 137,773; Oct. 18.
Mirrors, Rear-view. Liberty Mirror Works. No. 146,773; Oct. 18.
Newspaper articles, *Nom de plume* for. Tribune Company. No. 147,056; Oct. 18.
Newspaper articles, *Nom de plume* for. Tribune Company. No. 147,060; Oct. 18.
Newspaper-column. Tribune Company. No. 147,057; Oct. 18.
Newspaper-column. Tribune Company. No. 147,064; Oct. 18.
Oil, hair-grower, tetter remedy, &c., Pressing-. R. P. King. No. 142,089; Oct. 18.
Oil, Lubricating-. Northwestern Petroleum Company, No. 142,763; Oct. 18.
Oil, mayonnaise, maple-sugar, honey, &c., Olive-. Hoffman & Hauck. No. 145,511; Oct. 18.
Oil, Olive-. Oriental Products Importing Co. No. 148,813; Oct. 18.
Oils and greases. International Lubricating Co. No. 149,642; Oct. 18.
Oils and petroleum asphalts and pitches, Road and roofing. Atlantic Refining Company. No. 148,689; Oct. 18.
Oils, gasolene, mineral wax, lubricating-grease, &c., Lubricating-. Tide Water Oil Company. Nos. 152,392–6; Oct. 18.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Oils, Lubricating-. Massachusetts Oil Refining Company. No. 145,278; Oct. 18.
Ointment for treatment of cuts, bruises, &c. E. P. Plancon. No. 150,060; Oct. 18.
Ointments, Tubular containers for medicinal. H. Planten & Son. No. 150,253; Oct. 18.
Oxid of antimony and pigments made therefrom. Cookson & Company. No. 147,597; Oct. 18.
Paint-pigments, Dry. Aluminum Cooking Utensil Co. No. 147,594; Oct. 18.
Paints, colors, &c., Dry, ready-mixed, and paste. C. A. Woolsey Paint & Color Company. Nos. 149,884–7; Oct. 18.
Paints, enamels, stains, varnishes, &c. Breinig Brothers, Inc. No. 149,381; Oct. 18.
Paper and stationery. Hosonuma & Co. No. 148,070; Oct. 18.
Paper, Carbon-. E. Hassinger. No. 148,333; Oct. 18.
Paper, Carbon-. J. D. McCarthy Co. No. 145,838; Oct. 18.
Paper cups. W. W. Bevan Company. No. 148,968; Oct. 18.
Perfumes, sachets, talcum powder, face-powder, cold-cream, &c. Cheramy, Inc. Nos. 150,218–18; Oct. 18.
Perfumes, sachets, talcum powder, face-powder, cold-creams, &c. Cheramy, Inc. No. 150,220; Oct. 18.
Periodical, Monthly. International Association of Lions Clubs. No. 150,534; Oct. 18.
Periodicals issued monthly, bulletins, and circulars. International Association of Lions Clubs. No. 150,316; Oct. 18.
Petroleum jelly, oil of petrol, white mineral oil, &c., for lubricating purposes. Chesebrough Manufacturing Company, Consolidated. No. 150,946; Oct. 18.
Phonograph-cabinets. A. Culp. No. 151,505; Oct. 18.
Phonographs, talking-machines, and records therefor. Mutual Trading Company. No. 136,384; Oct. 18.
Piece goods of silk, wool, and cotton. Bianchini, Ferier. No. 150,350; Oct. 18.
Pile fabrics in the piece. Sidney Blumenthal & Co. No. 151,701; Oct. 18.
Pillows, Feather. E. C. Heller Company. No. 140,119; Oct. 18.
Popcorn. E. D. Bradshaw. No. 148,789; Oct. 18.
Powder used as an insect-destroyer. Julius Kalish, Inc. No. 150,109; Oct. 18.
Powders, Face, talcum, and toilet. V. Vivaudou, Inc. No. 149,940; Oct. 18.
Preparation consisting of an antiseptic jelly for colds in the head, &c. Sanitas Company, Inc. No. 150,256; Oct. 18.
Preparation for gonorrhea. Tomoda Goshi Kaisha. No. 115,591; Oct. 18.
Preparation for rheumatism, kidney trouble, asthma, &c. W. Roberts. No. 144,667; Oct. 18.
Preparation for the treatment of asthma. A. J. Pater. No. 151,377; Oct. 18.
Preparation for use in the treatment of headaches, colds, neuralgia, &c. J. R. Kirkpatrick, Jr. No. 147,296; Oct. 18.
Preparation for distoma. Chinoin gyógyszer és vegyészeti termékek gyára r. t. (Dr. Keresaty és Dr. Wolf). No. 143,918; Oct. 18.
Preparation used internally for coughs, colds, and headaches. L. Gawurin. No. 150,104; Oct. 18.
Remedy for coughs and whooping-coughs, colds, &c., Syrup. J. R. Angell. No. 150,345; Oct. 18.
Remedy for treatment of chlorosis, anemia, scrofula, &c. Blanding & Blanding, Inc. No. 150,347; Oct. 18.
Remedy for treatment of rheumatism. M. J. Koldera. No. 151,222; Oct. 18.
Remedy indicated in pulmonary diseases, chronic coughs, &c. Blanding & Blanding, Inc. No. 150,349; Oct. 18.
Roofing, Prepared. National Asbestos Manufacturing Co. No. 145,578; Oct. 18.
Rubber tires. United States Tire Company. No. 149,431; Oct. 18.
Salt, common, coarse, and fine salt, Dairy and table. International Salt Co. of New York. No. 138,646; Oct. 18.
Scouring-powders and soaps. Fox River Company. No. 124,206; Oct. 18.
Shades, Window-. Paris Manufacturing Company. No. 150,563; Oct. 18.
Sheetings and drills. Orr Cotton Mills. No. 151,558; Oct. 18.
Sheets, sheeting and pillow-cases. Cooper, Coate & Casey Dry Goods Co. No. 152,543; Oct. 18.
Shipping drums and containers used for food products, chemicals, &c. H. L. Carpenter. No. 152,501; Oct. 18.
Shoes. Robert Wise Company. No. 147,573; Oct. 18.
Shoes, boots, slippers, pumps, oxfords. F. Werner. No. 144,058; Oct. 18.
Shoes, Leather. H. B. Davis Co. No. 136,465; Oct. 18.
Silos. Creamery Package Mfg. Co. No. 148,058; Oct. 18.
Sleepers. Valco Mfg. Co. No. 147,067; Oct. 18.
Soap for hair and skin. Frances Fox Laboratories Incorporated. No. 150,893; Oct. 18.
Soaps, Toilet. F. N. Lewis. No. 143,505; Oct. 18.
Soling material, Composition. Marathon Tire & Rubber Company. No. 129,790; Oct. 18.
Spark-plugs. G. T. Dochtermann. No. 149,321; Oct. 18.
Springs, hair mattresses, hair and wool mattresses, pillows, Box-. J. H. Jones. No. 152,205; Oct. 18.
Stamp-pads. Mun-Kee Products Corporation. No. 149,766; Oct. 18.
Stamp-pads. Peerless Carbon & Ribbon Mfg. Co. No. 149,024; Oct. 18.
Sugar preparation for making sherbets, ices, cake-frosting. Smile Co. No. 129,156; Oct. 18.
Syrup used in baking, &c., Barley-malt. Pfeiffer Bros. No. 142,852. Oct. 18.
Tea. C. H. Boneberger & Co. No. 148,391; Oct. 18.
Timepieces. Luminite Company. No. 149,914; Oct. 18.
Tire casings and tubes, Rubber. Achilles Rubber and Tire Company. No. 149,947; Oct. 18.
Tire-sealing compound. C. L. Brown. No. 150,502; Oct. 18.
Tobacco. Liggett & Myers Tobacco Company. No. 140,665; Oct. 18.
Tobacco, Smoking-. W. A. Hollingsworth. No. 139,614; Oct. 18.
Toilet preparation. E. S. Givens. No. 146,431; Oct. 18.
Toilet preparation for the skin. M. J. Fehan. No. 150,575; Oct. 18.
Tonic, Blood and liver. A. B. Woodward Medicine Company. No. 151,442; Oct. 18.
Tonic, General. Chas. Segalas Company. No. 147,528; Oct. 18.
Tooth-paste. The Pyorr-Laris Company. No. 151,062; Oct. 18.
Toothbrushes. P. B. T. Williams. No. 136,010; Oct. 18.
Turpentine. American Trading Company of New Orleans. No. 150,344; Oct. 18.
Underwear, pajamas, and shirts for men. Ariel Manufacturing Company. No. 141,745; Oct. 18.
Vanilla flavor and extract, lemon extracts. G. U. Lipshulch. No. 146,717; Oct. 18.
Varnished and enameled surfaces, furniture, &c., Polish for. G. F. Krueger & Co. No. 106,719; Oct. 18.
Varnishes. Grand Rapids Varnish Corporation. No. 150,356; Oct. 18.
Vehicle-window frames. Stewart Manufacturing Corporation. No. 146,467; Oct. 18.
Veterinary products. W. H. Michaud. No. 148,545; Oct. 18.
Watches. Adolphe Schwab, Inc. No. 136,852; Oct. 18.
Watches and clocks. Cartier, Inc. No. 144,962; Oct. 18.
Watches and clocks. L. F. Sackerman. No. 149,560; Oct. 18.
Watches and parts of watches. Fabrique de Montres Selva S. A. No. 151,359; Oct. 18.
Watches and parts of watches. Vittori & Co. Dolmy Watch Co. No. 151,441; Oct. 18.
Watches and watch-movements. J. Barfield. No. 151,934; Oct. 18.
Watches, watch-movement, watchcases. M. A. Mead & Company. No. 143,939; Oct. 18.
Water, Natural alkaline saline, carbonated. Spiceland Sanitarium. No. 151,724; Oct. 18.
Waterproof clothing. Alligator Oil Clothing Company. No. 143,419; Oct. 18.
Welders and parts thereof, Electric. Federal Machine and Welder Co. No. 142,837; Oct. 18.
Wheels. Dayton Automotive Wheel Company. No. 147,769; Oct. 18.
Wheels and parts thereof, Vehicle-. R. G. Nierman. No. 149,417; Oct. 18.
Wire rope. Wickwire Spencer Steel Corporation. No. 145,198; Oct. 18.
Wood fillers for fibrous sheets and other forms. L. Graffin. Nos. 150,232–3; Oct. 18.
Wood shingles. Grays Harbor Shingle Company. No. 152,552; Oct. 18.
Woolen, worsted, &c., piece goods. R. Spitzer. No. 132,063; Oct. 18.
Woolens and other textiles used in men's wear trade. D. & H. Heidgerd. No. 150,747; Oct. 18.
Woolens, cottons, silks, flannels, &c. Winship, Boit & Co. No. 146,472; Oct. 18.
Woolens, cottons, silks, linens, &c. Winship, Boit & Co. No. 146,474; Oct. 18.
Worsted and woolen textile fabrics. Holden-Leonard Company. No. 126,727; Oct. 18.
Woven cotton piece goods. Neuss, Hesslein & Co. Inc. No. 151,059; Oct. 18.

CLASSIFICATION OF PATENTS

ISSUED OCTOBER 18, 1921.

NOTE.—First number—class, second number—subclass, third number—patent number.

1— 8: 1,393,515
26: 1,394,457
28: 1,394,678
41: 1,394,685
2— 41: 1,394,685
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18— 2: 1,394,457
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19: 1,394,057
23: 1,394,800
54: 1,394,270
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19— 6: 1,394,684
20— 5: 1,394,404
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42— 3: 1,393,912
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43— 42: 1,394,313
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ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 25TH DAY OF OCTOBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abbott, Charles C., Pittsfield, Mass., assignor to General Electric Company. Electric heating unit. No. 1,394,518; Oct. 25.

Abt, Hugo A. F., Chicago, Ill. Bascule-bridge. No. 1,394,519; Oct. 25.

Adamson, James S. (See Lewis, W. E. D., Adamson, and Madsen.)

Advance Electric Company, The. (See Bretch, Edward, assignor.)

Air Reduction Company. (See Von Recklinghausen, Max, assignor.)

Akemann, Walther, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Apparatus for the electrical long-distance control of the valve-gear of a hydraulic gun-pointing gear. No. 1,394,520; Oct. 25.

Akers, Glen, assignor to Jennings Automatic Dump Body, Inc., Essex, Va. End-gate-operating mechanism. No. 1,394,521; Oct. 25.

Aktiebolaget Ljungströms Angturbin. (See Ljungström, Fredrik, assignor.)

Aktiebolaget, Tuben. (See Karlsson, Walfrid, assignor.)

Alexander, Harry, Jersey City, assignor to New York Bottlers Supplies Manufacturing Co., Hoboken, N. J. Syrup-measuring device for bottle-fillers. No. 1,394,530; Oct. 25.

Allen, Charles J., Moorestown, N. J., J. M. Howard, Media, and D. R. Richie, Lansdowne, Pa. Cultivator. No. 1,394,522; Oct. 25.

Allen, Oglesby, Jr., assignor to Allen Specialty Company, Chicago, Ill. Spark-plug. No. 1,394,523; Oct. 25.

Allen Specialty Company. (See Allen, Oglesby, Jr., assignor.)

Allison, Clarence H., Chicago, Ill. Liquid-fuel burner. No. 1,394,603; Oct. 25.

Altgelt, Rudolph J., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,394,524; Oct. 25.

Altgelt, Rudolph J., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,394,525; Oct. 25.

Aluminum Company of America. (See Blough, Earl, assignor.)

American Arch Company. (See Willett, Alfred H., assignor.)

American Brass Company, The. (See Coe, James R., assignor.)

American Cellulose and Chemical Manufacturing Company. (See Miles, George W., assignor.)

American Electrical Heater Company. (See Kuhn, F. Thomas, and Spiess, assignors.)

American District Telegraph Company. (See Johnson, C. C., and Hopkins, assignors.)

American District Telegraph Company. (See Johnson, Clarence C., assignor.)

American District Telegraph Company. (See Hopkins, Richard M., assignor.)

American Foundry & Furnace Company. (See Frost, Nathaniel, assignor.)

American Manganese Steel Company. (See McKee, Walter S., assignor.)

American Perforator Company, The. (See Lyman, Walter H., assignor.)

American Steel and Wire Company of New Jersey. (See Febrey, Harold H., assignor.)

American Sterilizer Company. (See Mueller, Paul M., assignor.)

American Telephone and Telegraph Company. (See Post, Arthur W., assignor.)

Amsden, Eugene C., Boston, Mass. Universal table. No. 1,394,526; Oct. 25.

Anderson, Anders, Dunellen, N. J. Printing-press. No. 1,395,076; Oct. 25.

Anderson-Barngrover Mfg. Co. (See Thompson, Albert R., assignor.)

Anderson, William M., assignor to Ideal Products Company, Minneapolis, Minn. Cigar-box-lid holder. No. 1,395,215; Oct. 25.

Andrews, Alburee C., Greenville, Tex. Mortising-machine. No. 1,394,527; Oct. 25.

Angus, Donald J., Indianapolis, Ind. Electric-meter construction. No. 1,394,528; Oct. 25.

Apollo Magneto Corporation. (See Fuegel, G., and Schmid, assignors.)

Applegate, Ernest, Rushville, Ind. Latch. No. 1,394,650; Oct. 25.

Armitage, Le Roy, East Orange, N. J. Electric-lamp fixture. No. 1,394,529; Oct. 25.

Armstrong, Clarence D. (See Neville, Chris S., assignor.)

Arnot, Robert, Zurich, Switzerland. Azo dye and its manufacture. No. 1,395,238; Oct. 25.

Ashworth, William, North Adams, Mass. Carbureter. No. 1,395,170; Oct. 25.

Automatic Auto Jack Company. (See Downey, Richard F., assignor.)

Aveling, Christian W., Elgin, Ill. Hoisting and conveying machinery. No. 1,395,077; Oct. 25.

Avery Company. (See Bartholomew, John B., assignor.)

Bachar, John, Chicago, Ill. Phonograph-cabinet. No. 1,394,960; Oct. 25.

Badger Manufacturing Corporation. (See Ingrig, Walter V., assignor.)

Badois, Louis, and D. Kahn, Paris, France. Lock-screw. No. 1,394,660; Oct. 25.

Bailey, George, and J. P. Nielsen, San Francisco, Calif. Display-rack. No. 1,395,229; Oct. 25.

Bain, Nathaniel M., Oak Grove, Oreg. Segregating-mast. No. 1,395,078; Oct. 25.

Baldwin, Abram T., deceased, Detroit, Mich.; C. P. Baldwin, executrix. Differential gage. No. 1,394,660; Oct. 25.

Baldwin, Abram T., deceased, Detroit, Mich.; C. P. Baldwin, executrix. Differential gage. No. 1,394,661; Oct. 25.

Baldwin, Catherine P., executrix. (See Baldwin, Abram T.)

Ballard, Albert M. (See Oberfell, G. G., and Ballard.)

Barbé, Léonce, St. Maurice, assignor to Société des Produits Azotés, Paris, France. Granulating cyanamid. No. 1,394,532; Oct. 25.

Barber, Howard M., Stonington, Conn., assignor to C. E. Cottrell & Sons Company, New York, N. Y. Web-guide for rotary cutters. No. 1,394,961; Oct. 25.

Bardera, Jose M., New York, N. Y. Advertising device. No. 1,394,531; Oct. 25.

Barnhart, Walter C., Seattle, Wash. Pulley-grinding machine. No. 1,394,704; Oct. 25.

Barnhurst, Henry G., administrator. (See Barnhurst, H. R., Collins, and Barnhurst.)

Barnhurst, Henry G. (See Barnhurst, H. R., Collins, and Barnhurst.)

Barnhurst, Henry R., deceased, by H. G. Barnhurst, administrator, Catasauqua, H. R. Collins, Allentown, and H. G. Barnhurst, Catasauqua, assignors to Fuller Engineering Company, Allentown, Pa. Burning pulverized fuel in locomotives. No. 1,395,079; Oct. 25.

Barra, John L. (See Oldham, E. L., and Barra.)

Barri, Emma F., Brooklyn, N. Y. Stocking-supporter. No. 1,394,533; Oct. 25.

Barrows, Allan S., Chicago, Ill. Sheet-metal flush car-door. No. 1,395,080; Oct. 25.

Barry, Clinton R., and M. L. McClelland, Fort Smith, Ark., assignor of one-half to The Crowley and Smith Patents Company, Oklahoma, Okla. Drill. No. 1,395,081; Oct 25.

Bartholomew, John B., assignor to Avery Company, Peoria, Ill. Gang-plow. No. 1,395,216; Oct. 25.

Barton, Ben D., Lansing, Mich. Belt pulley and tightener. No. 1,394,705; Oct. 25.

Basore, Cleburne A., Auburn, Ala. Production of alcohol from gas containing ethylene. (Reissue.) No. 15,211; Oct. 25.

Bate, John W., Racine, Wis. Hood-clamp. No. 1,394,962; Oct. 25.

Bayles, Lewis C., Easton, Pa., assignor to The Ingersoll-Rand Company, Jersey City, N. J. Fluid-actuated motor. No. 1,395,082; Oct. 25.

Beach, Charles P., Littleton, N. H. Gear-puller attachment. No. 1,394,963; Oct. 25.

Beall, William L., Chicago, Ill., assignor to International Harvester Company. Feed-mill. No. 1,394,803; Oct. 25.

Beanes, Warwick H., Peterborough, England. Baking-oven. No. 1,394,706; Oct. 25.

Beasley, Alfred E., Toronto, Ontario, Canada, assignor of one-half to F. B. Leonard, Los Angeles, Calif. Steering-wheel lock. No. 1,395,083; Oct. 25.

Beaumont, Edward D., assignor of one-half to J. Y. Hung, Phoenix, Ariz. Vehicle-wheel. No. 1,394,882; Oct. 25.

Bégot, Louis H. E., Paris, France. Cascade extrusion-die for cold or hot spinning of metals. No. 1,395,217; Oct. 25.

Belt, John A., Toronto, Ontario, Canada. Centrifugal liquid-evacuator. No. 1,395,218; Oct. 25.

Belluche, Frank R., Mansfield, assignor to United Printing Machinery Company, Boston, Mass. Adjustable feeding-table. No. 1,395,027; Oct. 25.

Bender, Christian C., Seattle, Wash. Automatic universal reproducer and tone-arm. No. 1,394,804; Oct. 25.

Benedict, Dirck C., South Bellingham, Wash. Loose-leaf binder. No. 1,394,707; Oct. 25.

Benedict, J. M. (See McAdams, Lewis C., assignor.)

Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Outlet-fitting. No. 1,395,084; Oct. 25.

Bennett, Edward D., Pulaski, N. Y. Apparatus for cleaning felts. No. 1,395,219; Oct. 25.

Berg, John P., and J. M. Gleason; said Gleason assignor of all his right to Great Western Commercial Body Company, Omaha, Nebr. Body for dumping-trucks. No. 1,395,028; Oct. 25.

Bergman, Axel G. (See Mönchen, J., and Bergman.)

Berkeley Light Corporation. (See Wood, William G., assignor.)

Berkenkamp, Russell, *et al.* (See Briggs, John, assignor.)

Bernard, A. M., Wagon Works. (See Bernard, Willy J., assignor.)

Bernard, Willy J., assignor to A. M. Bernard Wagon Works, New Iberia, La. Tractor-platform. No. 1,394,883; Oct. 25.

Best, Clarence L., Oakland, assignor to The Holt Manufacturing Company, Stockton, Calif. Track-laying tractor. No. 1,395,029; Oct. 25.

Bibb, Robert P., Van Buren, Ark. Resilient wheel. No. 1,395,085; Oct. 25.

Biggs, Edward, assignor to Wood and Selick, Inc., New York, N. Y. Multiple bake-pan. No. 1,395,030; Oct. 25.

Birdsey, Charles R., Hinsdale, assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill. Plaster-board. No. 1,395,081; Oct. 25.

Birdsey, Charles R., Hinsdale, assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill. Plaster-board. No. 1,395,082; Oct. 25.

Bishop, George W. Jr., Lynbrook, assignor of one-third to George deV. Gilmore, New York, N. Y. Mixer. No. 1,395,171; Oct. 25.

Blake, Charles C., Brookline, Mass. Clutch. No. 1,394,805; Oct. 25.

Blake, Charles C., Brookline, Mass. Machine for inserting fastenings. No. 1,394,806; Oct. 25.

Blaise, Edward, Brooklyn, N. Y. Cabinet for talking-machine records. No. 1,394,964; Oct. 25.

Blanchard, George N., San Francisco, Calif. Igniting and controlling device for hydrocarbon generators and burners. No. 1,394,807; Oct. 25.

Blomquist, Ernest O. E., Woodside, N. Y. Floor waxing and polishing device. No. 1,394,662; Oct. 25.

Blough, Earl, Parnassus, assignor to Aluminum Company of America, Pittsburgh, Pa. Heat treatment of aluminum alloys. No. 1,394,534; Oct. 25.

Boggs, Robert R. (See Nell, C. B., and Boggs.)

Bohn, Belle H., *et al.*, executors. (See Howell, John A.)

Borden Company, The. (See Nonneman, Ira W., assignor.)

Boome, Alexander. (See Kramer, L., and Boome.)

Bornemann, George C., *et al.* (See Briggs, John, assignor.)

Boswell, Fletcher O., Philadelphia, Pa. Automobile-lock. No. 1,395,220; Oct. 25.

Bott, John C., Dell Rapids, S. D. Rail tie and fastener. No. 1,395,172; Oct. 25.

Bourne, Clifford A., Portland, Oreg. Electric marking device. No. 1,394,965; Oct. 25.

Bowers, Thomas A., Boston, Mass. Ornamental device or pompon. No. 1,395,033; Oct. 25.

Bovard, William P., assignor to The Ohio Brass Company, Mansfield, Ohio. Manufacturing rail-bonds. No. 1,394,604; Oct. 25.

Brandt, Henry E., assignor to Dobbins Manufacturing Company, North St. Paul, Minn. Air-charging pump for sprayers. No. 1,395,086; Oct. 25.

Braine, Bancroft G., New York, N. Y., assignor to The Rail Joint Company. Making step-joints. No. 1,394,708; Oct. 25.

Brenkert, Joseph W., San Diego, Calif. Street-traffic direction-signaling device. No. 1,394,966; Oct. 25.

Brennan, Thomas, Jr., assignor to Moline Plow Company, Moline, Ill. Automatic gear-throw-out mechanism for grain-drills or the like. No. 1,394,663; Oct. 25.

Brenner, Joseph A., Hanover, Pa. Timer for washing-machines. No. 1,395,034; Oct. 25.

Bretch, Edward, assignor to The Advance Electric Company, St. Louis county, Mo. Electric motor. No. 1,394,535; Oct. 25.

Brettschneider, Friedrich, Raits, Moravia. Manufacture of bricks. No. 1,395,173; Oct. 25.

Bridges, Rob R., Cameron, W. Va. Composition for refinishing blemished varnished wood surfaces. No. 1,394,808; Oct. 25.

Briggs, John, assignor of one-third to G. C. Bornemann and one-third to R. Berkenkamp, San Francisco, Calif. Multiple-disk phonograph. No. 1,395,035; Oct. 25.

Brion, Harry O., assignor to A. G. Cash, Rochester, N. Y. Center-testing device. No. 1,395,087; Oct. 25.

Brooks, Benjamin T., Bayside, N. Y., assignor to Chadeloid Chemical Company. Making chlorhydrins. No. 1,394,664; Oct. 25.

Brown, Newman T., assignor to C. A. Spirk, Seattle, Wash. Direction-indicator. No. 1,395,088; Oct. 25.

Bruneau, Hudger, Woonsocket, R. I. Decarbonizing device. No. 1,394,665; Oct. 25.

Bryan, Henry A., Medill, Okla. Air-brake system. No. 1,395,221; Oct. 25.

Buchner, Frederick E. (See Davern, Stephen A., assignor.)

Buhr, Joseph F., Detroit, Mich. Drill-head. No. 1,394,709; Oct. 25.

Burge, Clarence W., Parkersburg, W. Va. Chain-fastener. No. 1,394,666; Oct. 25.

Burger, Clarence W. (See Smith, J. E., and Burger.)

Burhans, Harry H., Newark, N. J. Automatic ball-mill feeder. No. 1,395,089; Oct. 25.

Burhorn, Edwin, Hoboken, N. J. Cooling-tower. No. 1,394,605; Oct. 25.

Burns, Archibald E. (See Friendly, H. M., and Burns.)

Burns, Joseph, Okmulgee, Okla. Temper-screw. No. 1,394,710; Oct. 25.

Burns, Thomas A., and D. J. Huether, assignors to Dunlop Tire and Rubber Goods Company, Limited, Toronto, Ontario, Canada. Apparatus for solutioning tire-beads. No. 1,395,085; Oct. 25.

Busch-Sulzer Bros.-Diesel Engine Company. (See Tacchella, Adolf, assignor.)

Burroughs Adding Machine Company. (See Gooch, Claiborne W., assignor.)

Buttigieg, John, Elgin, Ill. Necktie form and holder. No. 1,394,606; Oct. 25.

Butterworth-Judson Corporation. (See Jones, Whitney B., assignor.)

Calhoun, Charles, assignor of one-half to A. G. Meeks, Duquesne, Pa. Lubricating device. No. 1,395,174; Oct. 25.

Campbell, Leon J., Buchanan, Mich. Variable-speed transmission mechanism. No. 1,394,607; Oct. 25.

Cangeri, Mark, Brooklyn, N. Y. Shank-stiffener for shoes. No. 1,394,884; Oct. 25.

Carle, Leon P., North Raymond, Me. Circuit-testing apparatus. No. 1,395,037; Oct. 25.

Carlson, Gustav W., assignor to The Torbensen Axle Company, Cleveland, Ohio. Brake mechanism for motor-vehicles. No. 1,394,885; Oct. 25.

Carolina Pavement Company. (See Wilson, George A., Jr., assignor.)

Carpenter, Allan O., Corning, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Compressor-unloader. No. 1,395,090; Oct. 25.

Carter, Charles H., Farmers Fork, Va. Automatic fish-cleaner. No. 1,394,711; Oct. 25.

Case, J. I., Plow Works. (See Michael, Clement W., assignor.)

Case, J. I., Threshing Machine Company. (See Smith, Henry S., assignor.)

Cash, Alfred G. (See Brion, Harry O., assignor.)

Casey, James D. (See Evenden, A. L., and Casey.)

Casey, Joseph A. (See Evenden, A. L., and Casey.)

Catron, John J., Bonham, Tex. Safety-razor. No. 1,394,886; Oct. 25.

Caverly, Ralph, Chicago, Ill. Drill. No. 1,395,091; Oct. 25.

Chadeloid Chemical Company. (See Brooks, Benjamin T., assignor.)

Champney, Ralph P., Worcester, assignor to Mitchell and Smith, Incorporated, Boston, Mass. Driving-belt. No. 1,394,967; Oct. 25.

Chapin & Hollister Co. (See Lewis, Frederick W., assignor.)

Chase, Wilfred O., Detroit, Mich. Carbureter. No. 1,394,536; Oct. 25.

Cheney, Forest, assignor to Cheney Talking Machine Company, Chicago, Ill. Sound-reproducing machine. No. 1,395,092; Oct. 25.

Cheney, Forest, assignor to Cheney Talking Machine Company, Chicago, Ill. Sound-reproducing machine. No. 1,395,093; Oct. 25.

Cheney Talking Machine Company. (See Cheney, Forest, assignor.)

Cheney Talking Machine Company. (See Doerr, Fred H., assignor.)

China, Joseph L., West Huntington, W. Va. Merry-go-round. No. 1,395,175; Oct. 25.

Christensen, Christen, assignor to Electrical Engineers Equipment Co., Chicago, Ill. Disconnecting-switch. No. 1,394,968; Oct. 25.

Chmurski, Anton J., assignor to F. Rigas, Milwaukee, Wis. Automobile lighting device. No. 1,395,039; Oct. 25.

Claireaux, Félix M. J. A. (See Leroy, C. E. H., and Claireaux.)

Clelland, Duncan. (See McFarlane, J., and Clelland.)

Cleveland Osborn Manufacturing Company, The. (See Frost, Clinton E., assignor.)

Cliff, Ray Y. (See Strobl, Frank P., assignor.)

Clinton, Harry D., Whitney Point, N. Y. Textile spool or bobbin. No. 1,395,038; Oct. 25.

Close, Jacob V., Norwalk, Conn. Hollow tile. No. 1,395,176; Oct. 25.

Coe, James R., assignor to The American Brass Company, Waterbury, Conn. Apparatus for handling containers of liquid. No. 1,395,040; Oct. 25.

Coe, James R., assignor to The American Brass Company, Waterbury, Conn. Scrap-bundling machine. No. 1,395,041; Oct. 25.

Coes, Russell R., assignor of one-half to Coes Wrench Company, Worcester, Mass. Making wrench-handles. No. 1,394,222; Oct. 25.

Coes Wrench Company. (See Coes, Russell R., assignor.)

Cohen, Abraham, St. Louis, Mo. Shoe-heel. No. 1,394,712; Oct. 25.

Cohn, Charles C., assignor to I. B. Kleinert Rubber Company, New York, N. Y. Display-card. No. 1,394,537; Oct. 25.

Collins, Harry R. (See Barnhurst, H. R., Collins, and Barnhurst.)

Collins, Roy V., West Newton, Mass. Switch-operating mechanism. No. 1,394,713; Oct. 25.

Collins, Walter H., Summit, N. J. Reminder. No. 1,395,094; Oct. 25.

Colburn, Irving W., Toledo, Ohio, assignor, by mesne assignments, to The Libbey-Owens Sheet Glass Company, Process and apparatus for drawing sheet-glass. No. 1,394,809; Oct. 25.

Colven, James M., Yonkers, N. Y., assignor to New York Engineering Company. Steam-boiler. No. 1,394,969; Oct. 25.

Compagnie des Forges et Acieries de la Marine et d' Homecourt. (See Rimailho, Emile, assignor.)

Continental Can Company. (See Kronquest, Alfred L., assignor.)

Continental Can Company. (See Robinson, D. P., Coyle, and Kronquest, assignors.)

Conyngham, William B., Wilkes-Barre, Pa. Thread-spinning machine. No. 1,395,223; Oct. 25.

Cooper, William F., Norwalk, Ohio. Pump governor mechanism. No. 1,394,887; Oct. 25.

Copeland, Joseph F., Drexel Hill, Pa. Drawing-board. No. 1,394,539; Oct. 25.

Corbin, Elbert A., Jr., Swarthmore, Pa. Electric lamp and heater. No. 1,394,667; Oct. 25.

Cottrell, C. B., & Sons Company. (See Barber, Howard M., assignor.)

Coulombe, Joseph C., Lowell, Mass. Fuel-feeding device. No. 1,395,224; Oct. 25.

Cowan, Arthur S., Boston, assignor, by mesne assignments, to The Stafford Company, Readville, Boston, Mass. Warp stop-motion for looms. No. 1,394,970; Oct. 25.

Coyle, John. (See Robinson, D. P., Coyle, and Kronquest.)

Craddick, Joel E., Denver, Colo. Electrothermal garment. No. 1,394,810; Oct. 25.

Creighton, Elmer E. F., and F. R. Shaver, Schenectady, N. Y., assignors to General Electric Company. Protective device. No. 1,394,971; Oct. 25.

Creveling, John L., Auburn, N. Y. Electric regulation. No. 1,394,972; Oct. 25.

Crossley, Percy B., Calcutta, India. Manufacture of a glass using natural silicates, such as micaceous minerals, asbestos, and the like. No. 1,394,973; Oct. 25.

Crowley and Smith Patents Company, The. (See Barry, C. R., and McClelland, assignors.)

Crown Cork and Seal Company of Baltimore City. (See Goebel, George, assignor.)

Culshaw, Thomas, Malvern, Victoria, Australia. Construction of ceilings. No. 1,394,714; Oct. 25.

Culver, John F., Los Angeles, Calif. Scoring device. No. 1,394,715; Oct. 25.

Cunniff, Edward A., Fall River, assignor to Draper Corporation, Hopedale, Mass. Spindle. No. 1,394,668; Oct. 25.

Cureton, David D., Jr., Tallahassee, Fla. Automatic-stop oil-gage. No. 1,395,095; Oct. 25.

Curtiss Aeroplane and Motor Corporation. (See Gilmore, William L., assignor.)

Da Costa, Arthur V., Providence, R. I. Swinging figure toy. No. 1,394,670; Oct. 25.

Da Costa, Arthur V., Providence, R. I. Toy. No. 1,394,669; Oct. 25.

Dalos, Gaston J., Courbevoie, France. Compressor. No. 1,394,811; Oct. 25.

Dalton Adding Machine Company, The. (See Landsiedel, Harry, assignor.)

Danielsson, Axel, Gottenborg, Sweden, assignor to Nordiska Kullager Aktiebolaget, Sweden. Limit-gage. No. 1,394,974; Oct. 25.

Danielson, Frank, Chicago, Ill. Wrench. No. 1,394,539; Oct. 25.

Davern, Stephen A., assignor of one-half to F. E. Buchner, Cleveland, Ohio. Tool. No. 1,394,608; Oct. 25.

Davies, Evan W., Dowlais, Wales. Apparatus for the automatic manipulation of metal ingots at rolling-mills. No. 1,394,671; Oct. 25.

Davies, Joseph B., Melbourne, Victoria, Australia. Machine for spirally threading or grooving wire. No. 1,394,716; Oct. 25.

Davis, Cortland W., assignor to The Mantle Lamp Company of America, Chicago, Ill. Fastener for covers. No. 1,394,672; Oct. 25.

Davis, David J. and W. C.; said W. C. Davis assignor of forty per cent. to G. Davis, Columbus, Ohio. Collapsible bed-spring. No. 1,394,609; Oct. 25.

Davis, George. (See Davis, David J. and W. C., assignors.)

Davis, William C. (See Davis, David J. and W. C.)

Day, Harvey J., and G. J. Finn, Eau Claire, Wis. Train-sheet. No. 1,395,177; Oct. 25.

Dean, James H., Chicago, Ill. Flour-sifter. No. 1,395,096; Oct. 25.

Decker, Alfred, & Cohn. (See Serak, George E., assignor.)

De Cew, Judson A., Mount Vernon, assignor to Process Engineers, Incorporated, New York, N. Y. Rosin product. No. 1,394,610; Oct. 25.

De Clamecy, Philippe, Boston, assignor to B. F. Sturtevant Company, Hyde Park, Mass. Oscillating fan. No. 1,394,975; Oct. 25.

Delich, Petar, Duluth, Minn. Pump. No. 1,394,611; Oct. 25.

De Meutter, Leopold, San Francisco, Calif. Gas-plate. No. 1,395,097; Oct. 25.

Den-Hart Manufacturing Company. (See Denis, William E., assignor.)

Denis, William E., assignor to Den-Hart Manufacturing Company, New Haven, Conn. Washing-machine. No. 1,395,178; Oct. 25.

Dennis, Walter L. (See Ruebsamen, A., and Dennis.)

Denver Rock Drill Manufacturing Company, The. (See Oldham, E. L., and Barrs, assignors.)

De Reamer, Frank C., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 1,394,976; Oct. 25.

Dernell Potato Products Co. (See Dernell, William, assignor.)

Dernell, William, assignor to Dernell Potato Products Co., Chicago, Ill. Apparatus for dipping vegetables. No. 1,394,612; Oct. 25.

Determann, August P., Lyons, Iowa. Pneumatic-stacker hood. No. 1,394,812; Oct. 25.

Dibert, Louis D., and R. C. Winter, Philadelphia, Pa. Transposing device for pneumatic musical instruments. No. 1,394,541; Oct. 25.

Dieges & Clust. (See Dieges, Charles J., assignor.)

Dieges, Charles J., assignor to Dieges & Clust, New York, N. Y. Badge. No. 1,394,977; Oct. 25.

Diack, Alexander S., Detroit, Mich. Mixing-bowl. No. 1,394,540; Oct. 25.

Dobbins Manufacturing Company. (See Brandt, Henry E., assignor.)

Dobbins, Michael G., Philadelphia, assignor of one-half to F. H. Shaw, Narberth, Pa. Emery-wheel dresser. No. 1,395,098; Oct. 25.

Doerner, John M., St. Cloud, Minn. Plow. No. 1,395,179; Oct. 25.

Doerr, Fred H., Grand Rapids, Mich., assignor to Cheney Talking Machine Company, Chicago, Ill. Swaging needle-arms and fulcrum-bars. No. 1,394,717; Oct. 25.

Dodds, Ethan I. (See Flannery, J. R., and Dodds.)

Dolbear, Clinton E., Los Angeles, assignor of three-fourths to D. C. Norcross, and one-fourth to J. H. Miller and G. J. Henry, San Francisco, Calif. Recovering potassium compounds from brines containing the same in association with other chemical compounds. No. 1,394,978; Oct. 25.

Donaldson & Fisher Company, The. (See Fisher, Harvey L., assignor.)

Downey, Richard F., assignor to Automatic Auto Jack Company, Milwaukee, Wis. Automobile-jack. No. 1,394,888; Oct. 25.

Doyle, Merrill W., St. Louis, Mo. Connecting device. No. 1,394,673; Oct. 25.

Draper Corporation. (See Cunniff, Edward A., assignor.)

Draper Corporation. (See Nutting, Charles E., assignor.)

Draper Corporation. (See Rhoades, Alonzo E., assignor.)

Draper Corporation. (See Trembley, Ulysse N., assignor.)

Drinker, Philip. (See Gault, Henry, assignor.)

Drury, Frederick A., Jersey City, N. J., assignor to P. Lorillard Company, New York, N. Y. Sheet-feeding apparatus. No. 1,394,613; Oct. 25.

Dudley, Arthur J., Jersey City, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,394,614; Oct. 25.

Duffey, Homer N., Jr. (See Thompson, George H., assignor.)

Dull, Raymond W., La Grange, assignor to Link Belt Company, Chicago, Ill. Link for chain-belts. No. 1,394,979; Oct. 25.

Dull, Raymond W., La Grange, assignor to Link Belt Company, Chicago, Ill. Link for chain-belts. No. 1,394,980; Oct. 25.

Duncan, Robert H., Epping, near Sydney, New South Wales, Australia. Security box or case. No. 1,394,981; Oct. 25.

Dunham Company The. (See Hunter Robert M. assignor.)

Dunlop Tire and Rubber Goods Company. (See Burns, T. A., and Huether, assignors.)

Edison, Thomas A., Incorporated. (See Shelly, Samuel, assignor.)

Elbets, Max. (See Luber, S., and Elbetz, assignor.)

Elfiaender, Ludwig. (See Luttringhaus, A., and Elfiaender.)

Elder, Matthew L., Pittsfield, Mass., assignor to General Electric Company. Casing for electrical apparatus. No. 1,394,982; Oct. 25.

Electric Vacuum Cleaner Company. (See Rosenfield, William W., assignor.)

Electrical Engineers Equipment Co. (See Christensen, Christen, assignor.)

Ellis, Axel E., Boston, Mass. Vehicle-wheel. No. 1,395,099; Oct. 25.

Emery, Walter E., Peoria, Ill. Sealing shafts or wells. No. 1,394,718; Oct. 25.

Empire Transformer Company. (See Mendels, Irwin J., assignor.)

Enache, Cociu, assignor to one-tenth to G. P. Riza, Dallas, Tex. Automatic safety-gate for railway-crossings. No. 1,394,813; Oct. 25.

Engler, Richard A., Evanston, Ill. Flying-machine. No. 1,394,814; Oct. 25.

Bagley, Richard A., Dubuque, Iowa. Electrically-operated car and control apparatus. No. 1,[illegible]; Oct. 25.
Bagley, Richard A., Evanston, Ill. [illegible]. No. 1,394,616; Oct. 25.
Erwin, Luther E., Covington, Ohio. Gas-controlling valve. No. 1,394,613; Oct. 25.
Etzweiler, William, and Thomas H. Fox, Pittsburgh, Pa. Sounding instrument. No. 1,395,150; Sept. 25.
Everlon Building Material Manufacturing Company. (See Fischer, Joseph A., and Meier.)
Evans, Edward E., Detroit, Mich. Metal shaft-floating back for automobiles. No. 1,[illegible]; Oct. 25.
Evendon, Alfred L., J. D. and J. A. Cheney, Rome, N. Y. Implement for fixing tips to laces. No. 1,394,719; Oct. 25.
Ewell, Laurence M. (See Hope, A., G. J., and Ewell.)
Fanmot, Winifred M., Newtownards, Ireland. Receptacle. No. 1,394,617; Oct. 25.
Fay, Thomas L., Seattle, Wash. Attachment for automobile running-boards. No. 1,[illegible]; Oct. 25.
Febrey, Harold H., Newark, assignor to The American Steel and Wire Company of New Jersey, Hoboken, N. J. Rail-bond. No. 1,394,618; Oct. 25.
Federal Products Company, The. (See Rowland, Andrew J., assignor.)
Feltman, Charles L., Brooklyn, N. Y. Garment-supporter. No. 1,394,720; Oct. 25.
Ferguson, Alexander D., Chicago, Ill., assignor to Sullivan Machinery Company. Compressor-controlling mechanism. No. 1,394,619; Oct. 25.
Festo, John, Brooklyn, N. Y. Gas-burner. No. 1,394,721; Oct. 25.
Fiego, Alexander J. E., Lynn, Mass., assignor to General Electric Company. Electrical measuring instrument. No. 1,394,623; Oct. 25.
Fiber Electric Heater, Limited. (See Kratt, Charles, assignor.)
Finckh, Fritz, Essen, assignor to Fried. Krupp Aktiengesellschaft. Essen-on-the-Ruhr, Germany. Barrel-recoil gun. No. 1,394,624; Oct. 25.
Finn, Gilbert J. (See Day, H. J., and Finn.)
Firestone Tire & Rubber Company, The. (See Stevens, William C., assignor.)
Fischer, Joseph A., assignor to Eureka Bedding Manufacturing Company, Brooklyn, N. Y. Day-bed with adjustable folding headpiece. No. 1,394,625; Oct. 25.
Fisher, Harvey L., assignor to The Dusaldeem & Fisher Company, Chicago, Ill. Driving mechanism. No. 1,394,966; Oct. 25.
Fisk Rubber Company, The. (See Midgley, T., and Naylor, assignors.)
Fite, Cephas V., Charlotte, N. C. Sawing apparatus. No. 1,395,100; Oct. 25.
Fite, Cephas V., Charlotte, N. C. Manually-portable sawing-machine. No. 1,395,101; Oct. 25.
Flannery Bolt Company. (See Flannery, J. R., and Dodds, assignors.)
Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,394,542; Oct. 25.
Flannery, John R., and E. I. Dodds, assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,394,543; Oct. 25.
Flemings, Richard, Westfield, N. J., assignor to The Richard Fleming Company, Apparatus for condensing and treating distillates. No. 1,394,967; Oct. 25.
Fleming, Richard, Company, The. (See Fleming, Richard, assignor.)
Flood, S. D. (See Snyder, Frederick T., assignor.)
Flood, Samuel D., Kenilworth, Ill. Method of and apparatus for baking. No. 1,394,674; Oct. 25.
Florence, Joule. (See Koster, William J., assignor.)
Flynn, John K., Superior, Wis. Stump-puller. No. 1,394,544; Oct. 25.
Foedisch, Charles O. and R. J., Chicago, Ill. Door-stop. No. 1,394,859; Oct. 25.
Foedisch, Roy J. (See Foedisch, Charles O. and R. J.)
Fogde, Gustav, Hoquiam, Wash. Power-hammer. No. 1,394,722; Oct. 25.
Folberth, William M., Cleveland, Ohio. Bracket. No. 1,394,988; Oct. 25.
Foley, Mahlon S. (See Graham, J. H., and Foley.)
Folk, Joseph. (See Luschka, A. R., and Folk.)
Foster, Emory M., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Demountable-rim-operating lever. No. 1,394,989; Oct. 25.
Foster, Freling C., Chicago, Ill. Car-brake. No. 1,394,990; Oct. 25.
Foundation Oven Corporation. (See Roberts, William E., assignor.)
Frechette, Joseph H., and L. Hachez, Lowell, Mass. Picture-frame. No. 1,394,675; Oct. 25.
Fredricks, Charles, Brooklyn, N. Y. Fishing-tackle. No. 1,394,616; Oct. 25.
Fredriksen, Christian, Croydon, near Sydney, New South Wales, Australia. Spring suspension for automobiles. No. 1,394,724; Oct. 25.
Frederick, William J., *et al.* (See Fuller, Clarence C., assignor.)
Freese, Hugo, Genesee, N. Y. Pad or mat. No. 1,395,227; Oct. 25.
French, Thomas H., Pacific Grove, Calif. Sealed container. No. 1,394,545; Oct. 25.
Frick, Orlando C., assignor to Smalley Manufacturing Company, Manitowoc, Wis. Comminuting attachment for feed-cutters. No. 1,394,725; Oct. 25.
Frick, [illegible], Ill., Oliver. No. 1,394,991; Oct. 25.
Fritz, [illegible] (See Smith, Alexander J., assignor.)
Fritz, [illegible]schaft. (See Abraham, William, assignor.)
Fritz, [illegible]schaft. (See Finckh, Fritz, assignor.)
Frost, Richard M., and A. E. Bacon, Portland, Oreg.; [illegible] assignor to said Frost. Telephone [illegible]. No. 1,394,723; Oct. 25.
[illegible] et al. (See Frost, Richard, assignor.)
[illegible] A. (See Hayter, W. O., and Fry.)
[illegible], Kansas City, assignor to J. E. Gregg, Jr., [illegible] Mining device for explosive-engines. No. 1,394,[illegible]; Oct. 25.
Frost, Clinton E., East Cleveland, assignor to The Cleveland [illegible] Company, Cleveland, Ohio. Rotary [illegible]. No. 1,394,546; Oct. 25.
Frost, Richard, assignor to American Foundry & Furnace Company, Bloomington, Ill. Furnace-casing. No. 1,394,921; Oct. 25.
Fry, Edwin B., Oroville, Calif. Combined gage and marker. No. 1,394,662; Oct. 25.
Fuessl, Gottlieb, and H. Schmid, assignors, by mesne assignments, to Apollo Magneto Corporation, Brooklyn, N. Y. Timer-ring for ignition systems. No. 1,394,042; Oct. 25.
Fuller, Clarence C., assignor of one-fifth to H. K. Fuller, one-fifth to F. C. Griffin, one-fifth to H. L. Hiles, and one-fifth to W. J. Frederick, Lanley, Ala. Thrust-bearing for internal-combustion engines. No. 1,395,043; Oct. 25.
Fuller Engineering Company. (See Barnhurst, H. R., Collins, and Barnhurst, assignors.)
Fuller, Howard B., *et al.* (See Fuller, Clarence C., assignor.)
Fuller-Lehigh Company. (See Kinter, C. W., and Smith, assignors.)
Gaait, Henry, Strasmburg, France, assignor of one-half to P. Drinker, Bethlehem, Pa. Applying coated fabrics to objects. No. 1,394,920; Oct. 25.
Gaarde, Otto, Winesap, Wash. Clasp. No. 1,395,102; Oct. 25.
Geisenhöner, Henry, Schenectady, N. Y., assignor to General Electric Company. Electric heating apparatus. No. 1,394,991; Oct. 25.
Gerlach, Fred, *et al.*, trustees. (See Lindgren, A. C., and Johnson, assignors.)
General American Tank Car Corporation. (See Weaver, Robert E., assignor.)
General Electric Company. (See Abbott, Charles C., assignor.)
General Electric Company. (See Creighton, E. F. F., and Shavor, assignors.)
General Electric Company. (See De Roamer, Frank C., assignor.)
General Electric Company. (See Elder, Matthew L., assignor.)
General Electric Company. (See Fiego, Alexander J. E., assignor.)
General Electric Company. (See Geisenhöner, Henry, assignor.)
General Electric Company. (See Hendricks, Allan B., Jr., assignor.)
General Electric Company. (See Hobart, Henry M., assignor.)
General Electric Company. (See Kierstead, Friend H., assignor.)
General Electric Company. (See McLain, Robert H., assignor.)
General Electric Company. (See Moss, Sanford A., assignor.)
General Electric Company. (See Murphy, Edwin J., assignor.)
General Electric Company. (See O'Neil, James A., assignor.)
General Electric Company. (See Palmer, Robert, assignor.)
General Electric Company. (See Reichold, Ludwig, assignor.)
General Electric Company. (See Stearns, Ralph W., assignor.)
General Electric Company. (See Sugimura, Nobuchika, assignor.)
General Electric Company. (See Van Aller, Tycho, assignor.)
General Electric Company. (See Wilkinson, James, assignor.)
Gilmore, George de V. (See Bishop, George W., Jr., assignor.)
Gilmore, William L., Fort Washington, assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Airplane-fuselage. No. 1,394,726; Oct. 25.
Gleason, James M. (See Berg, J. P., and Gleason.)
Gleason Works. (See Stewart, A. L., and Head, assignors.)
Goebel, George, assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Stopper-extractor. No. 1,395,103; Oct. 25.
Goetz, Oscar H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Automobile-bumper. No. 1,394,662; Oct. 25.
Goetz, Oscar H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Automobile-bumper. No. 1,394,806; Oct. 25.

Goerty, Henry B., Des Moines, Iowa. Stock-waterer. No. 1,394,517; Oct. 25.
Goldstein, Samuel H., Philadelphia, Pa. Stop-motion. No. 1,394,546; Oct. 25.
Gooch, Catherine W., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,395,044; Oct. 25.
Good Inventions Co. (See Good, John, assignor.)
Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Incandescent-gas-burner. No. 1,394,994; Oct. 25.
Goodyear Redwood Co. (See Lawson, Davenport, assignor.)
Goodyear Tire & Rubber Co., The. (See Harsel, W. B., and Nall, assignors.)
Gover, Hardy A., Epping, near Sydney, New South Wales, Australia. Stocking-suspender. No. 1,394,822; Oct. 25.
Graham, James H., and M. S. Foley, assignors to The Torrington Company, Torrington, Conn. Die for making spoke-nipples. No. 1,395,161; Oct. 25.
Gray, Forrest L., Kenmore, Ohio. Hair-clipper. No. 1,395,104; Oct. 25.
Great Western Commercial Body Company. (See Berg, J. P., and Gleason, assignors.)
Green, J. E. (See Fritz, John H., assignor.)
Greer, William E., Syracuse, N. Y. Tire-mold. No. 1,394,547; Oct. 25.
Griffin, Albert P., Troy, N. Y. Chain connection. No. 1,394,618; Oct. 25.
Griffin, Fred C., *et al.* (See Fuller, Clarence C., assignor.)
Griffin, Bartie J., Springfield, Mass. Valve. No. 1,394,805; Oct. 25.
Grob, Armin, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Green acid dyestuffs containing chromium and making same. No. 1,394,823; Oct. 25.
Gronbech, Christian E. A., Keene, N. H. Mail-clip. No. 1,394,727; Oct. 25.
Grover, Harry, Bellingham, Wash. Automatic garage-door. No. 1,394,728; Oct. 25.
Gutenkunst, William, Milwaukee, Wis. Hay-carrier. No. 1,394,729; Oct. 25.
Gutridge, John A., and J. A. Wood, McLoud, Okla. Road-drag. No. 1,394,548; Oct. 25.
Habrich, Peter, Philadelphia, Pa. Life-sustaining apparatus. No. 1,394,824; Oct. 25.
Hachez, Louis. (See Frechette, J. E., and Hachez.)
Hafemeister, William C., assignor to The Metal Parts Manufacturing Company, Cleveland, Ohio. Self-opening die-head. No. 1,394,549; Oct. 25.
Hahn, Francis C., Newton, Mass. Auxiliary device for talking-machines. No. 1,394,825; Oct. 25.
Halladay, Lewis P., Decatur, Ill. Double bumper-bar. No. 1,395,045; Oct. 25.
Hall, Charles P., near Highland Springs, Va. Governor for gas-engines. No. 1,394,826; Oct. 25.
Halvorson, Cromwell A. B., Jr., Lynn, Mass. Headlight-reflector. No. 1,394,896; Oct. 25.
Hamor, William A. (See Tressler, Donald K., assignor.)
Hand, Townson, New Haven, Conn. Revolving heel. No. 1,394,676; Oct. 25.
Haney, Myron L., Beloit, Wis. Device for opening and closing garage-doors and the like. No. 1,395,240; Oct. 25.
Hansa Metallwerk G. m. b. H., Abteilung Maschinenfabrik. (See Schilling, Hugo O., assignor.)
Hanseaana, Richard A. (See Kucharski, Stanislaus, assignor.)
Hansen, Hans, Kansas City, Mo. Drain-board. No. 1,394,994; Oct. 25.
Hanson, Albert J., assignor to Tidewater Equipment Corporation, Portland, Me. Engine-starter. No. 1,394,619; Oct. 25.
Harper, William D., Sydenham, Ontario, Canada. Alarm track-gage. No. 1,395,106; Oct. 25.
Harriman, George V., New York, N. Y. Piston. No. 1,394,808; Oct. 25.
Harshberger, Russell P., Chicago, Ill. Safety-razor. No. 1,394,827; Oct. 25.
Harsel, William B., and E. Nall, deceased, by E. A. Nall, executrix, assignors to The Goodyear Tire & Rubber Co., Akron, Ohio. Tire-making machine. No. 1,395,055; Oct. 25.
Harsel, William B., and E. Nall, deceased, Akron, E. A. Nall, Cuyahoga Falls, executrix, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-making machine. No. 1,395,152; Oct. 25.
Harsel, William B., and E. Nall, deceased, Akron, E. A. Nall, Cuyahoga Falls, executrix, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-making machine. No. 1,395,153; Oct. 25.
Haslam, Joseph C., San Francisco, Calif. Hat-shaping device. No. 1,395,106; Oct. 25.
Haupt, Mary A. M., Chicago, Ill. Educational apparatus. No. 1,394,620; Oct. 25.
Haus, John G., Weirton, W. Va. Water-heater. No. 1,394,897; Oct. 25.
Hawk, Ivan O., East Cleveland, assignor of one-half to T. B. Soden, Cleveland, Ohio. Wind musical instrument. No. 1,395,107; Oct. 25.
Haynes, Charles M., Chillicothe, Ohio. Clamp for adjusting spectacle-frames. No. 1,394,828; Oct. 25.
Hayter, Wilbur O., Klamath Falls, Oreg., and G. A. Frisk, Gridley, Calif. Jam-nut. No. 1,394,730; Oct. 25.
Haywood, John W., New York, assignor to Horne Manufacturing Company, Brooklyn, N. Y. Multiple connector. No. 1,395,108; Oct. 25.
Head, Ernest C. (See Stewart, A. L., and Head.)
Hendricks, Allan B., Jr., Pittsfield, Mass., assignor to General Electric Company. Water-cooled electrical apparatus. No. 1,394,899; Oct. 25.
Hennig, Hermann O., Atlanta, Ga. Broom. No. 1,395,109; Oct. 25.
Henry, George J., *et al.* (See Delbear, Clinton E., assignor.)
Herterich, Milton B., Omaha, Nebr. Concrete building-slab. No. 1,394,550; Oct. 25.
Hersh, Lewis, Ironwood, Mich. Switch-stand. No. 1,395,184; Oct. 25.
Hertzberg, Harry. (See Wohl, M. J., and Hertzberg.)
Hibser, Philip D., Seattle, Wash. Valve. No. 1,394,900; Oct. 25.
Hiles, Edward L., *et al.* (See Fuller, Clarence C., assignor.)
Hill Pump Valve Company, The. (See Umbdenstock, Walter, assignor.)
Hilsabeck, Albert R. (See Button, Frank M., assignor.)
Hindahl, David, assignor to National Dump Car Company, Chicago, Ill. Door-shaft lever. No. 1,394,621; Oct. 25.
Hitt, Thomas G., Seattle, Wash. Aerial toy projectile. No. 1,394,551; Oct. 25.
Hoagland, Thomas G. (See Meachen, J., and Bergman, assignors.)
Hobart, Henry M., Schenectady, N. Y., assignor to General Electric Company. Electricity-transformer and transforming and converting apparatus. No. 1,394,901; Oct. 25.
Hoeschen, Herman. Freeport, Minn. Buckle. No. 1,394,552; Oct. 25.
Hoffer, Herman and J., New York, N. Y. Hollow casting. No. 1,394,553; Oct. 25.
Hoffer, Jacob. (See Hoffer, Herman and J.)
Hoffman, Richard A., New York, N. Y. Ash-protector and cutter adaptable to cigars and cigarettes. No. 1,394,622; Oct. 25.
Holdsworth, Willis, Providence, R. I. Top screw for gill-drawing frames. No. 1,394,829; Oct. 25.
Hole, Dean, Chicago, Ill. Luminous pendant. No. 1,395,110; Oct. 25.
Holland Lighting and Specialty Co. (See Olinger, Thomas, assignor.)
Hollifield, Horatio B., Washington, D. C. Attachment for motor-vehicles. No. 1,395,111; Oct. 25.
Holloway, Halbert H., San Francisco, Calif. Intake-manifold-heating device. No. 1,394,830; Oct. 25.
Holman, Vasser C., Nixon, Tex. Spittoon. No. 1,395,185; Oct. 25.
Holt, Benjamin, assignor to The Holt Manufacturing Company, Stockton, Calif. Upper-run support for chain-tracks. No. 1,394,995; Oct. 25.
Holt Manufacturing Company, The. (See Best, Clarence L., assignor.)
Holt Manufacturing Company, The. (See Holt, Benjamin, assignor.)
Holt Manufacturing Company, The. (See Holt, Pliny E., assignor.)
Holt Manufacturing Company, The. (See Norelius, Emil F., assignor.)
Holt Manufacturing Company, The. (See Turnbull, W., and Norelius, assignors.)
Holt Manufacturing Company, The. (See Turnbull, William, assignor.)
Holt Manufacturing Company, The. (See Whitnall, Clarence A., assignor.)
Holt Manufacturing Company, The. (See Wickersham, Elmer E., assignor.)
Holt, Pliny E., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor-truck construction. No. 1,394,996; Oct. 25.
Holthaus, George, assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Method of and means for assembling sifter-top members for cans. No. 1,394,623; Oct. 25.
Hopkins, Richard M., Rutherford, assignor to American District Telegraph Company, Jersey City, N. J. Key device for register. No. 1,394,831; Oct. 25.
Hopkins, Richard M., Rutherford, assignor to American District Telegraph Company, Jersey City, N. J. Watchman's registry system. No. 1,394,832; Oct. 25.
Hopkins, Richard M., Rutherford, assignor to American District Telegraph Company, Jersey City, N. J. Key device. No. 1,394,833; Oct. 25.
Hopkins, Richard M., Rutherford, assignor to American District Telegraph Company, Jersey City, N. J. Registry system and register therefor. No. 1,394,834; Oct. 25.
Hopkins, Richard M. (See Johnson, C. C., and Hopkins.)
Horan, John G., Detroit, Mich. Railway-tie. No. 1,394,781; Oct. 25.
Horne Manufacturing Company. (See Haywood, John W., assignor.)
Hosch, Greene C., St. Louis, Mo. Presser-roller-releasing device. No. 1,394,554; Oct. 25.
Hough, Samuel, Atco, N. J. Aerial bomb. No. 1,394,902; Oct. 25.
Howard, Frank A. (See McKenzie-Martyn, E. C., and Howard.)
Howard, John M. (See Allen, C. J., Howard, and Eichle.)
Howell, John A., deceased, Warrenton, Va., by B. H. Bohn and F. A. Neville, executors, Washington, D. C. Wheeled boat. No. 1,395,112; Oct. 25.
Hrissikos, Louis J., Moline, Ill. Medicinal compound. No. 1,395,228; Oct. 25.
Hruby, Thomas J. (See Plummer, George C., assignor.)

Hubbard, Charles W., Weston, Mass. Winding-machine. No. 1,394,732; Oct. 25.
Hubbard, Harry H. Grand Rapids, Mich. Recording-apparatus. No. 1,394,735; Oct. 25.
Huether, Davis J. (See Burns, T. A., and Huether.)
Hudson, John W., Brooklyn, N. Y. Crank-shaft. No. 1,395,113; Oct. 25.
Hughes, Harry F. (See Klocke, William H., assignor.)
Hung, Jeang Ying. (See Beaumont, Edward D., assignor.)
Hunt, Ormond E., assignor to Packard Motor Car Company, Detroit, Mich. Fluid-compressor for motor-vehicles. No. 1,394,835; Oct. 25.
Hunter, Robert M., Lexington, Ky., assignor to The Dunham Company, Berea, Ohio. Implement draft appliance. No. 1,394,903; Oct. 25.
Hussong Dyeing Machine Company. (See Thompson, James H., assignor.)
Hutton, Edward S., Lapel, Ind. Glass-discharging mechanism. No. 1,394,677; Oct. 25.
Hydraulic Pressed Steel Company, The. (See Foster, Emory M., assignor.)
Ickes, Peter G., Chanute, Kans. Railway-tie. No. 1,394,624; Oct. 25.
Ide, Harry L., Springfield, Ill. Electrical transformer. No. 1,394,555; Oct. 25.
Ideal Products Company. (See Anderson, William M., assignor.)
Ingersoll-Rand Company, The. (See Bayles, Lewis C., assignor.)
Ingersoll-Rand Company. (See Carpenter, Allan O., assignor.)
Inman, Harry A., and W. H., Newark, N. Y. Receptacle-making machine. No. 1,395,229; Oct. 25.
Inman, William H. (See Inman, Harry A. and W. H.)
International Harvester Company. (See Beall, William L., assignor.)
International Harvester Company. (See Mott, Carl W., assignor.)
International Harvester Company. (See Pearson, Charles, assignor.)
Ingrig, Walter V., assignor to Badger Manufacturing Corporation, Milwaukee, Wis. Clamp. No. 1,394,904; Oct. 25.
Iukaszewski, John, Chicago, Ill. Gas or liquid fuel burner. No. 1,395,196; Oct. 25.
Jackman, Charles W., assignor of one-half to M. M. Jackman, Detroit, Mich. Rotary pump. No. 1,395,114; Oct. 25.
Jackman, Miles M. (See Jackman, Charles W., assignor.)
Jackson, William J., Brooklyn, N. Y. Machine for grinding and reboring engine-cylinders. No. 1,394,836; Oct. 25.
James, Charles A., Philadelphia, Pa. Combination toilet box. No. 1,394,837; Oct. 25.
Januchowsky, John, Webster Groves, Mo. Reinforcing and sealing device. No. 1,394,678; Oct. 25.
Jaslow, Leah, Brooklyn, N. Y. Child's garment. No. 1,395,115; Oct. 25.
Jeffrey Manufacturing Company, The. (See Lindenberg, Frank H., assignor.)
Jennings Automatic Dump Body, Inc. (See Akers, Glen, assignor.)
Jicha, Mathew, Bridgeport, Ohio. Antispreading device for railway-rails. No. 1,394,734; Oct. 25.
Johansen, Johan M., Trondhjem, Norway. Apparatus for tightening leakages in and about boiler-tubes and the like. No. 1,395,180; Oct. 25.
Johns, Morgan J., Miles City, Mont. Automatic pressure-operated valve for engines or pumps. No. 1,394,679; Oct. 25.
Johnson, Albert E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for preparing insoles. No. 1,394,905; Oct. 25.
Johnson, Alfred R., Reedsville, Pa. Strapholder. No. 1,394,906; Oct. 25.
Johnson, Clarence C., Mount Vernon, N. Y., and R. M. Hopkins, Rutherford, assignors to American District Telegraph Company, Jersey City, N. J. Registry system and register therefor. No. 1,394,838; Oct. 25.
Johnson, Clarence C., Mount Vernon, N. Y., assignor to American District Telegraph Company, Jersey City, N. J. Registry system. No. 1,394,839; Oct. 25.
Johnson, Clarence C., Metuchen, and R. M. Hopkins, Rutherford, assignors to American District Telegraph Company, Jersey City, N. J. Registry apparatus. No. 1,394,840; Oct. 25.
Johnson, Clarence C., New York, N. Y., assignor to American District Telegraph Company, Jersey City, N. J. Watchman's tour signal system. No. 1,394,841; Oct. 25.
Johnson, Frank E., Trinidad, Colo. Weaner. No. 1,395,116; Oct. 25.
Johnston, Bess E., Chicago, Ill. Medical apparatus. No. 1,395,117; Oct. 25.
Johnston, Roy B. (See Lindgren, A. C., and Johnston.)
Jones, George D., Winterhaven, Fla. Attachment for fishing-reels. No. 1,395,118; Oct. 25.
Jones, Joseph W., New York, N. Y. Winding device for spring-motors. No. 1,394,907; Oct. 25.
Jones, Juell M. (See Neil, C. B., and Boggs, assignors.)
Jones, Whitney B., Newark, N. J., assignor to Butterworth-Judson Corporation, New York, N. Y. Making nitrodiaso compounds. No. 1,394,556; Oct. 25.
Jordan, Paul R., Indianapolis, Ind. Ventilator apparatus. No. 1,394,735; Oct. 25.
Kahn, Dolphy. (See Radois, L., and Kahn.)
Kaminska, Maria. (See Wellirl, George, assignor.)
Kanaszka, John V., Spragues, Wash. Rear axle. No. 1,394,842; Oct. 25.
Kanrath, Charles F., Omaha, Nebr. Rendering fats and oils. No. 1,394,776; Oct. 25.
Karger, David, Milwaukee, Wis. Knitted cap. No. 1,395,230; Oct. 25.
Karlsson, Walfrid, Wigglyholm, near Stockholm, assignor to Aktiebolaget Tubus, Stockholm, Sweden. Heater for hot-pipe systems. No. 1,394,557; Oct. 25.
Kaufman, Alfred, New York, N. Y. Hydrocarbon-burner. No. 1,395,187; Oct. 25.
Keesler, Clyde C., assignor to Watson Wagon Company, Canastota, N. Y. Trailer-supporting means. No. 1,394,737; Oct. 25.
Keller, Arnold B., *et al.*, trustee. (See Lindgren, A. C., and Johnston, assignors.)
Kelling, Gustave C., Chicago, Ill. Feeding mechanism. No. 1,394,908; Oct. 25.
Kennard, Harold J., Easton, Pa., assignor to Research Corporation, New York, N. Y. Apparatus for the electrical treatment of gases. No. 1,394,771; Oct. 25.
Kennedy, Ernest N., Birchwood, Sunningdale, England. Razor-blade holder. No. 1,394,909; Oct. 25.
Kennedy, John W., Seneca Falls, assignor to Kiddie-Town Products, Inc., Rochester, N. Y. Folding crib. No. 1,394,625; Oct. 25.
Kenyon, Roy A., Newcastle, Ind. Thread-gage. No. 1,395,231; Oct. 25.
Kesselring, Adam, Quincy, Ill. Phonograph-record holder. No. 1,395,188; Oct. 25.
Keyes, Henry B., Philadelphia, Pa. Vertical-milling-machine attachment. No. 1,394,843; Oct. 25.
Kiddie-Town Products, Inc. (See Kennedy, John W., assignor.)
Kierstead, Friend H., Pittsfield, Mass., assignor to General Electric Company. Reactor in tanks. No. 1,394,910; Oct. 25.
King, Oscar L. (See Sager, E. E., and King.)
King, Roy D., Chicago, Ill. Shingle-cutting machine. No. 1,394,911; Oct. 25.
Kinter, Charles W., Wellsburg, and G. Z. Smith, Follansbee, W. Va., assignors to Fuller-Lehigh Company, Fullerton, Pa. Switching-valve. No. 1,394,738; Oct. 25.
Kjorlien, Edwin, Minneapolis, Minn. Cooling system for internal-combustion-engine pistons. No. 1,394,844; Oct. 25.
Klauber, Laurence M., assignor of one-half to San Diego Consolidated Gas & Electric Company, San Diego, Calif. Automatic circuit-controlling apparatus. No. 1,395,046; Oct. 25.
Kleinert, I. B., Rubber Company. (See Cohn, Charles C., assignor.)
Klocke, William H., Woodhaven, assignor of one-half to H. F. Hughes, Brooklyn, N. Y. Nut-lock. No. 1,394,740; Oct. 25.
Klocke, William H., Woodhaven, assignor of one-half to H. F. Hughes, Brooklyn, N. Y. Nut-lock. No. 1,394,741; Oct. 25.
Klocke, William H., Woodhaven, assignor of one-half to H. F. Hughes, Brooklyn, N. Y. Rear wheel for motor-vehicles. No. 1,394,739; Oct. 25.
Klug, Louis E., assignor to Rub-Tex Products, Inc., Indianapolis, Ind. Process and apparatus for the manufacture of rubber jars. No. 1,394,558; Oct. 25.
Knudson, Gustave P., Harley, S. D. Wheel attachment. No. 1,394,680; Oct. 25.
Koch, Reinhold G., New York, N. Y. Insect-trap. No. 1,394,626; Oct. 25.
Koedding, William, St. Louis, Mo. Surface condenser. No. 1,394,627; Oct. 25.
Koehler, Edward J., Bronxville, assignor to Messinger Automatic Sales Corporation, New York, N. Y. Coin-vending machine. No. 1,394,559; Oct. 25.
Koliasch, Edward G., Browning, Mo. Vehicle-wheel. No. 1,395,189; Oct. 25.
Kolster, Frederick A., Washington, D. C. Apparatus for transmitting radiant energy. No. 1,394,560; Oct. 25.
Koonts, Victor E., assignor to The Victor Tool Company, Waynesboro, Pa. Die-head. No. 1,394,845; Oct. 25.
Kopf, John C., Bellevue borough, Pa. Die-casting machine. No. 1,394,561; Oct. 25.
Korkoss, Stanislaw J., Schenectady, N. Y. Vise. No. 1,394,912; Oct. 25.
Koster, William J., assignor to L. Florence, Peterborough, Ontario, Canada. Accessory for Ford automobiles. No. 1,394,846; Oct. 25.
Kramer, Andrew A., Kansas City, Mo. Vehicle-tank structure. No. 1,394,742; Oct. 25.
Kramer, Le Roy, and A. Boome, Chicago, Ill. Lathe-tool holder. No. 1,394,628; Oct. 25.
Kratt, Charles, Nottingham, England, assignor to Fibar Electric Heater, Limited. Electric water-heater. No. 1,394,847; Oct. 25.
Kronquest, Alfred L., Chicago, Ill., assignor to Continental Can Company, Inc., Syracuse, N. Y. Magazine and sheet-withdrawing mechanism therefor. No. 1,395,232; Oct. 25.
Kronquest, Alfred L. (See Robinson, D. P., Coyle, and Kronquest.)
Kube, Frederick E., Clinton, Iowa. Turbine. No. 1,394,772; Oct. 25.

Kucharski, Stanislaus, Charlottenburg, near Berlin, assignor to E. A. Hansemann, Berlin, Germany. Device for maintaining the slack of cinematographic films. No. 1,395,119; Oct. 25.
Kuhn, Harry A., Edgewood, Md. Antidimming composition. No. 1,394,773; Oct. 25.
Kuhn, Harry A., Edgewood, Md. Antidimming composition. No. 1,394,774; Oct. 25.
Kuhn, Frank, L. H. Thomas, and J. G. Spiess, assignors to American Electrical Heater Company, Detroit, Mich. Soldering-iron. No. 1,394,562; Oct. 25.
Kunkle, George, Grand Junction, Colo. Radium hydroemanometer. No. 1,395,120; Oct. 25.
Kuttroff, Adolf. (See Luttringhaus, A., and Eiflaender, assignors.)
La Duke, Emery E., Salt Lake City, Utah. Centrifugal basket. No. 1,394,743; Oct. 25.
Lafata, Antonio, Harbor City, Calif. Gravity labeling-machine. No. 1,394,744; Oct. 25.
Lake, Simon, Milford, Conn. Erecting concrete structures. No. 1,394,997; Oct. 25.
Lamb, Thomas F., Mansfield, Ohio. Coiling-machine. No. 1,395,190; Oct. 25.
Lambeck, Max, Barmen, Germany. Making the coloring natural horn water-resisting. No. 1,395,191; Oct. 25.
Landgraf, Emma, geb. Cartharius, Dresden, Germany. Garter. No. 1,395,192; Oct. 25.
Landsiedel, Harry, Norwood, assignor to The Dalton Adding Machine Company, Cincinnati, Ohio. Recording-machine. No. 1,395,121; Oct. 25.
Larala, Giuseppe C., New York, N. Y. Headrest for barber or like chairs. No. 1,394,913; Oct. 25.
Lauson, Duffa B., Grand Rapids, Minn. Automobile-door latch. No. 1,394,681; Oct. 25.
Lawrence, Charles A. (See McCorkindale, William P., assignor.)
Lawson, Davenport, assignor to Goodyear Redwood Co., Elk, Calif. Logging apparatus. No. 1,394,745; Oct. 25.
Lasenby, William R., Hardin, Mont. Trapper's tool. No. 1,395,122; Oct. 25.
Lee, Ira, assignor to W. J. Lee, Seattle, Wash. Sadiron-holder. No. 1,394,998; Oct. 25.
Lee, William J. (See Lee, Ira, assignor.)
Leicht, John, Jr., Burlington, Iowa. Sled. No. 1,394,629; Oct. 25.
Leise, Hubert A., Meriden, Conn. Telephone instrument. No. 1,394,563; Oct. 25.
Leonard, Frank B. (See Beasley, Alfred E., assignor.)
Leopold, George O., assignor to North Bros. Mfg. Co., Philadelphia, Pa. Lifting-jack. No. 1,395,123; Oct. 25.
Leroy, Charles E. H., and F. M. J. A. Claireaux, Versailles, France. Manufacture of a plastic product. No. 1,394,746; Oct. 25.
Levering, James F., Atlantic City, N. J., assignor to Standard Cotton Company of America. Machine for treating cotton. No. 1,394,775; Oct. 25.
Lewis, Frank D., West Orange, N. J., assignor to Pathe Freres Phonograph Company, New York, N. Y. Automatic stop mechanism for phonographs. No. 1,394,776; Oct. 25.
Lewis, Frank D., West Orange, N. J., assignor to Pathe Freres Phonograph Company. Automatic stop for phonographs. No. 1,394,777; Oct. 25.
Lewis, Frederick W., assignor to Chapin & Hollister Co., Providence, R. I. Forming a buckle-body. No. 1,395,124; Oct. 25.
Lewis, Otto L., Houston, Tex. Power steering device for tractors. No. 1,394,682; Oct. 25.
Lewis, Wilfred E. D., J. S. Adamson, and M. J. Mahon, Ottawa, Ontario, Canada. Portable flushing device. No. 1,395,125; Oct. 25.
Libby-Owens Sheet Glass Company, The. (See Colburn, Irving W., assignor.)
Libow, Frida. (See Libow, Jacob, assignor.)
Libow, Jacob, Springfield, assignor to F. Libow, Hampden county, Mass. Wire mattress fabric. No. 1,394,848; Oct. 25.
Lindenberg, Frank H., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Centrifugal separator. No. 1,395,193; Oct. 25.
Lindgren, Alexus C., and R. B. Johnston, Hamilton, Ontario, Canada, assignor to F. Gerlach and A. B. Keller, trustees, Chicago, Ill. Power-lift plow. No. 1,394,914; Oct. 25.
Lindgren, Charles F., Duluth, Minn. Portable power device. No. 1,394,564; Oct. 25.
Lindhe, Eric G., New York, N. Y. Portable radial drills. No. 1,395,194; Oct. 25.
Lindman, Konrad W., Stockholm, assignor, by mesne assignments, to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Ball-holder for ball-bearings. No. 1,395,126; Oct. 25.
Link Belt Company. (See Dull, Raymond W., assignor.)
Link Belt Company. (See Rapp, A. G. J., and Ewell, assignors.)
Little, Bert M., Hamilton, Ontario, Canada. Attachment for internal-combustion engines. No. 1,394,747; Oct. 25.
Little, Robert P., Columbus, Ohio. Window-sash fastener. No. 1,395,047; Oct. 25.
Litvak, Harry, New York, N. Y. Spring-mattress support. No. 1,394,849; Oct. 25.
Ljungström, Fredrik, Brevik, Lidingön, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Air-pump for condensers. No. 1,394,748; Oct. 25.
Loening, Grover C., New York, N. Y. Airplane. No. 1,394,630; Oct. 25.
Lohr, Michael E., Westmont borough, Pa. Hoisting apparatus. No. 1,394,915; Oct. 25.
Long, Albert R., Ballston, Va. Internal-combustion engine. No. 1,394,850; Oct. 25.
Long, John E., Hot Springs, Mont. Electric sign. No. 1,394,565; Oct. 25.
Lorillard, P., Company. (See Drury, Frederick A., assignor.)
Loud, George D., Boston, Mass. Pumping unit. No. 1,394,916; Oct. 25.
Lovett, Harry L., Nashua, N. H. Interchangeable price-card section. No. 1,395,127; Oct. 25.
Lowndes, Richard H., Atlanta, Ga. Universal joint. No. 1,394,749; Oct. 25.
Lubé, Henry, Astoria, N. Y. Tone-modifier for sound-boxes. No. 1,395,195; Oct. 25.
Luber, Solomon, and M. Eibetz, New York, N. Y. Pyrophoric igniting device. No. 1,394,917; Oct. 25.
Luedde, Arthur H., St. Louis, Mo. Furniture. No. 1,394,750; Oct. 25.
Luschka, August R., and J. Folk, assignors to U. S. Slicing Machine Company, Laporte, Ind. Adjustable support. No. 1,394,631; Oct. 25.
Luttringhaus, Arthur, Mannheim, and L. Eiflaender, Ludwigshafen-on-the-Rhine, Germany, assignors to A. Kuttroff, New York, N. Y. Manufacture of anthraquinone derivatives and new products resulting therefrom. No. 1,394,851; Oct. 25.
Lyman, Walter H., assignor to The American Perforator Company, Chicago, Ill. Perforating-machine. No. 1,394,566; Oct. 25.
Macdonald, John W. F., Brighton, Mass., assignor to The Merrill Process Company. Hydrocarbon-burner. No. 1,394,567; Oct. 25.
MacDonald, William W., San Francisco, Calif. Hydraulic-ram control. No. 1,395,001; Oct. 25.
Macfadden, Bernarr, New York, N. Y. Portable air cooler, moistener, and purifier. No. 1,394,924; Oct. 25.
Mahon, Martin J. (See Lewis, W. E. D., Adamson, and Mahon.)
Mandel, Louis, Chicago, Ill. Camera attachment. No. 1,394,568; Oct. 25.
Mann, Alfred, Barmen, Germany, assignor, by mesne assignments, to Waldes & Co. Inc., New York, N. Y. Press-button. (Reissue.) No. 15,212; Oct. 25.
Mantle Lamp Company of America, The. (See Davis, Cortland W., assignor.)
Margileth, Adolph W., Cincinnati, Ohio. Sign. No. 1,394,853; Oct. 25.
Marieu, Charles A., St. Louis, Mo. Piston-ring pot-casting and making piston-rings therefrom. No. 1,394,633; Oct. 25.
Markham, James P., Jr. (See Runyan, Benjamin F., assignor.)
Marlow, Richard, Ralph, Ala. Gear-wheel. No. 1,394,751; Oct. 25.
Marmon, Howard. (See Thoms, Max H., assignor.)
Marshall, Ernest W., Yonkers, assignor to J. E. Ogden, Mountainville, N. Y. Expansion-shield. No. 1,394,925; Oct. 25.
Marston, Edgar J. (See Smith, Herman A., assignor.)
Martin, Alfred N., New Dorp, N. Y. Piston. No. 1,394,926; Oct. 25.
Martin, Ernest, Marseille, France. Manufacture of pure alumina. No. 1,394,854; Oct. 25.
Martin, Ernest C., Antrim, N. H. Steel for sharpening cutlery. No. 1,394,927; Oct. 25.
Martin, Isaac, San Diego, Calif. Differential axle. No. 1,394,855; Oct. 25.
Mason, Edwin C., Madison, Wis. Furnace attachment. No. 1,394,634; Oct. 25.
Matsuo, Kenji, Tokyo, Japan. Glass roll. No. 1,394,684; Oct. 25.
Maturo, Pasquale, New Haven, Conn. Automatic latch. No. 1,394,635; Oct. 25.
Mayer, Max. (See Wohl, M. J., and Mayer.)
McAdams, Lewis C., Los Angeles, assignor of one-half to J. M. Benedict, Glendale, Calif. Traffic-signaling mechanism. No. 1,394,918; Oct. 25.
McCann, John J., Toronto, Ontario, Canada. Prayer-rail. No. 1,394,919; Oct. 25.
McCann, John W., Pauls Valley, Okla. File. No. 1,395,197; Oct. 25.
McCarley, William T., Luling, Tex. Device for lifting push-rods on Ford motors. No. 1,395,128; Oct. 25.
McClelland, Marshall L. (See Barry, C. R., and McClelland.)
McClure, Claude H., Oaktown, Ind. Worm-gear. No. 1,394,852; Oct. 25.
McClurd, Elbert B., Elizabethton, Tenn. Seat construction for sewing and other machines. No. 1,395,130; Oct. 25.
McCorkindale, William P., assignor of one-half to C. A. Lawrence, Holyoke, Mass. Vehicle-top. No. 1,395,129; Oct. 25.
McDermott, James, *et al.* (See Speed, John, assignor.)
McFarlane, John, Broomhill, and D. Clelland, Clydebank, Glasgow, Scotland. Screw-cutting tap. No. 1,395,198; Oct. 25.
McGee, Richard T., Wheeling, W. Va. Glass-delivery apparatus. No. 1,394,920; Oct. 25.
McGee, Walter, & Son, Limited. (See Walls, Alexander G., assignor.)

McKay, Henry N., San Francisco, Calif., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,394,682; Oct. 25.
McKee, Neal T., Yonkers, assignor to The Superheater Company, New York, N. Y. Superheater. No. 1,395,131; Oct. 25.
McKee, Walter S., Chicago, Ill., assignor to American Manganese Steel Company, Augusta, Me. Dipper-tooth. No. 1,395,045; Oct. 25.
McKenzie-Martyn, Edward C., and F. A. Howard, Elizabeth, assignors to Standard Oil Company, Bayonne, N. J. Priming device. No. 1,394,921; Oct. 25.
McKinstry, Frank X., Chicago, Ill. Overhead and underground storage for automobiles. No. 1,394,999; Oct. 25.
McKissick, Edward K., Oklahoma, Okla. Low-supply alarm for gasolene-tanks. No. 1,395,132; Oct. 25.
McLain, Robert H., Schenectady, N. Y., assignor to General Electric Company. Motor-control system. No. 1,394,922; Oct. 25.
McLeod, John A. (See Scalfaro, F. A., and McLeod.)
McNamara, Charles E., Minneapolis, Minn. Typewriting-machine. No. 1,395,049; Oct. 25.
McNeil, James W., Newark, N. J. Sheet-metal barrel. No. 1,394,923; Oct. 25.
McNerney, Mathew F., Goldfield, Colo. Automatic boiler-feed. No. 1,395,133; Oct. 25.
McRae, Finlay A., Montreal, Quebec, Canada. Ocean-going vessel. No. 1,395,000; Oct. 25.
McWilliams, Thomas J., assignor to H. J. Trenkamp, Cleveland, Ohio. Stove-door fitting. No. 1,394,683; Oct. 25.
Meeks, Arthur G. (See Calhoun, Charles, assignor.)
Menchen, Joseph, and A. G. Bergman, New York, N. Y., assignor to T. G. Hoagland, Rockaway, N. J. Nut-lock. No. 1,394,778; Oct. 25.
Mendels, Irwin J., assignor to Empire Transformer Company, Chicago, Ill. Electric toaster. No. 1,394,856; Oct. 25.
Merrill Process Company, The. (See Macdonald, John W. F., assignor.)
Merry, Frederick C., assignor to Merry Optical Company, Kansas City, Mo. Eyeglass-mounting. No. 1,395,199; Oct. 25.
Merry Optical Company. (See Merry, Frederick C., assignor.)
Messinger Automatic Sales Corporation. (See Koehler, Edward J., assignor.)
Messner, John, Calumet, Mich. Traction-shoe. No. 1,395,134; Oct. 25.
Metal Parts Manufacturing Company, The. (See Hafemeister, William C., assignor.)
Metals Recovery Company. (See Perkins, Clement L., assignor.)
Metals Recovery Company. (See Schwarz, Alfred, assignor.)
Meyer, William, Chicago, Ill. Increasing the efficiency of X-ray tubes. No. 1,394,569; Oct. 25.
Michael, Clement W., assignor to J. I. Case Plow Works, Racine, Wis. Disk plow. No. 1,395,050; Oct. 25.
Midgley, Thomas, Hampden, and R. B. Naylor, Springfield, assignors to The Fisk Rubber Company, Chicopee Falls, Mass. Treatment of rubber articles. No. 1,394,928; Oct. 25.
Mikanowich, Alexander C., Cleveland, Ohio. Dirigible. No. 1,395,051; Oct. 25.
Miles, George W., Sandwich, Mass., assignor to American Cellulose and Chemical Manufacturing Company, Ltd., New York, N. Y. Treating cellulose acetate and the product thereof. No. 1,394,752; Oct. 25.
Miller, Jacob W., Hanover, Pa. Radiator-core. No. 1,394,857; Oct. 25.
Miller, John H., *et al.* (See Dolbear, Clinton E., assignor.)
Miller, Walter F., Dayton, Ohio. Wrench. No. 1,395,052; Oct. 25.
Minnelli, Vincenso, Pittston, Pa. Combined tone-arm and amplifier. No. 1,395,053; Oct. 25.
Mitchell and Smith. (See Champney, Ralph P., assignor.)
Mitchell, John C., East Orange, N. J. Inner form for concrete-pipe molds. No. 1,394,570; Oct. 25.
Mitchell, John H., St. Louis, Mo. Cotton cleaning and separating machine. No. 1,395,054; Oct. 25.
Mock, Frank C., assignor to Stromberg Motor Devices Company, Chicago, Ill. Carbureter. No. 1,395,233; Oct. 25.
Moline Heat. (See Shartleff, Wilfred, assignor.)
Moline Plow Company. (See Brennan, Thomas, Jr., assignor.)
Moore, John E., Plains, Kans. Draft appliance. No. 1,394,858; Oct. 25.
Moore, Leon W., Santa Maria, Calif. Drawing-board. No. 1,395,200; Oct. 25.
Moran, Daniel E., Mendham, N. J. Subaqueous structure and method. No. 1,394,571; Oct. 25.
Mosher, Charles W., Cattaraugus, N. Y. Air moistening and distributing device. No. 1,394,859; Oct. 25.
Moss, Sanford A., Lynn, Mass., assignor to General Electric Company. Condenser apparatus. No. 1,394,920; Oct. 25.
Mott, Carl W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Power-operated plow. No. 1,394,930; Oct. 25.
Moulin, Auguste D., Paris, France. Motorcycle-engine starter. No. 1,394,753; Oct. 25.
Mueller, Adolph, trustee. (See Mueller, Robert H., assignor.)
Mueller, Adolph, trustee. (See Mueller, P., and Schuermann, assignors.)
Mueller, Adolph, trustee. (See Schuermann, Anton C., assignor.)
Mueller, Paul M., assignor to American Sterilizer Company, Erie, Pa. Electric-heating-element-controlling device. No. 1,395,002; Oct. 25.
Mueller, Paul M., Hartford, Conn., assignor to American Sterilizer Company, Erie, Pa. Electric-heating-element-controlling device. No. 1,395,003; Oct. 25.
Mueller, Philip, and A. C. Schuermann, assignors to A. Mueller, trustee, Decatur, Ill. Combined foundation-plate and templet. No. 1,394,755; Oct. 25.
Mueller, Philip, and A. C. Schuermann, assignors to A. Mueller, trustee, Decatur, Ill. Elastic-valve stem. No. 1,394,756; Oct. 25.
Mueller, Robert H., assignor to A. Mueller, trustee, Decatur, Ill. Service-box. No. 1,394,754; Oct. 25.
Müller, Henry, Waterbury, Conn. Emery-cloth holder. No. 1,394,757; Oct. 25.
Munts, William H., London, England. Valve. No. 1,394,931; Oct. 25.
Murphy, Edward R., Winchester, Mass. Liquid-dispensing apparatus. No. 1,394,758; Oct. 25.
Murray, Edwin J., Schenectady, N. Y., assignor to General Electric Company. Magnetic reversing and speed-varying gear clutch. No. 1,394,932; Oct. 25.
Murray, John O., Wenatchee, Wash. Shoe-polishing device. No. 1,394,636; Oct. 25.
Nall, Edith A., executrix. (See Harsel, W. D., and Nall.)
Nall, Edward. (See Harsel, W. B., and Nall.)
National Dump Car Company. (See Hindahl, David, assignor.)
Naylor, Ralph B. (See Midgley, T., and Naylor.)
Nell, Calvin B., and R. R. Boggs, assignors of one-third to J. M. Jones, Fannettsburg, Pa. Blackboard. No. 1,394,572; Oct. 25.
Nelson, Arthur F., Rogers Park, Ill. Device for applying paste to labels. No. 1,395,056; Oct. 25.
Nelson, John, Chicago, Ill. Cushion-wheel. No. 1,394,779; Oct. 25.
Nelson, Nels H., Willmar, Minn. Antiskid-chain. No. 1,395,057; Oct. 25.
Neville, Chris S., Kansas City, Mo., assignor of one-half to C. D. Armstrong, Los Angeles, Calif. Gasolene-flow-line lock. No. 1,394,560; Oct. 25.
Neville, Frances A., *et al.*, executors. (See Howell, John A.)
Nevius, Frazier W., St. Louis, Mo. Rubber floor-cleaner. No. 1,395,058; Oct. 25.
New York Bottlers' Supplies Manufacturing Co. (See Alexander, Harry, assignor.)
New York Engineering Company. (See Colven, James M., assignor.)
New Process Oil Company. (See Seeger, Robert, assignor.)
Nicholas, Wilbur H., Indianapolis, Ind. Septic-sewage-disposal pipe. No. 1,394,780; Oct. 25.
Nielsen, James P. (See Bailey, G., and Nielsen.)
Nipper, John W., Knoxville, Tenn. Valve-facing tool. No. 1,394,573; Oct. 25.
Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Pipe-cutter. No. 1,394,781; Oct. 25.
Norcross, David C., *et al.* (See Dolbear, Clinton E., assignor.)
Nordiska Kullager Aktiebolaget Sweden. (See Danielsson, Axel, assignor.)
Nordiska Kullager Aktiebolaget. (See Lindman, Konrad W., assignor.)
Norelius, Emil F., Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor transmission. No. 1,395,004; Oct. 25.
Norelius, Emil F. (See Turnbull, W., and Norelius.)
North Bros. Mfg. Co. (See Leopold, George O., assignor.)
Nutting, Charles E., assignor to Draper Corporation, Hopedale, Mass. Filling-end catcher for looms. No. 1,394,637; Oct. 25.
Nutting, George F., San Francisco, Calif. Oiling system for engines. No. 1,394,782; Oct. 25.
Oberfell, George G., and A. M. Ballard, Tulsa, Okla. Gas-testing apparatus. No. 1,395,201; Oct. 25.
Ogden, J. Edward. (See Marshall, Ernest W., assignor.)
Ohio Brass Company, The. (See Bovard, William P., assignor.)
Oldham, Edward L., and J. L. Barra, assignors to The Denver Rock Drill Manufacturing Company, Denver, Colo. Apparatus for blowing bores of rock-drill steels. No. 1,395,202; Oct. 25.
Olinger, Thomas, assignor to Holland Lighting and Specialty Co., Holland, Mich. Animal-stock. No. 1,394,783; Oct. 25.
Oliver Chilled Plow Works. (See Altgelt, Rudolph J., assignor.)
Ollesheimer, Theodore H., Rockford, Ill. Sample-holder. No. 1,395,005; Oct. 25.
Olsen, Axel M., East Orange, N. J. Electromagnetic valve. No. 1,395,203; Oct. 25.
Olsen, Harry H., Minneapolis, Minn. Trainman's flag and container. No. 1,394,933; Oct. 25.
O'Neil, James A., Lynn, Mass., assignor to General Electric Company. Headlight-reflector. No. 1,394,934; Oct. 25.
Packard Motor Car Company. (See Hunt, Ormond M., assignor.)

Palmer, Ernest E., assignor to Toronto Type Foundry Company, Limited, Toronto, Ontario, Canada. Sheet-feeding mechanism for paper and the like. No. 1,394,574; Oct. 25.
Palmer, Robert, Schenectady, N. Y., assignor to General Electric Company. Making tubes. No. 1,394,935; Oct. 25.
Papot, James A., Tucson, Ariz. Brick. No. 1,394,759; Oct. 25.
Pappas, Nick G., Hanna, Wyo. Aeroplane. No. 1,395,204; Oct. 25.
Parham Auto Patents Corporation. (See Parham, William H., assignor.)
Parham, William F., West Asheville, N. C. Rail-chair. No. 1,394,626; Oct. 25.
Parham, William H., assignor to Parham Auto Patents Corporation, Knoxville, Tenn. Vehicle-tire fastener. No. 1,395,205; Oct. 25.
Parham, William H., assignor to Parham Auto Patents Corporation, Knoxville, Tenn. Vehicle-tire fastener. No. 1,394,206; Oct. 25.
Park, Ira L., Washington, D. C. Suspension means for electric-lighting fixtures. No. 1,394,575; Oct. 25.
Parrish, Hale W., Chicago, Ill. Liquid-fuel burner. No. 1,394,576; Oct. 25.
Parrish, Vernon E., Cupertino, Calif. Machine for ridging land. (Reissue.) No. 15,213; Oct. 25.
Pathe Freres Phonograph Company. (See Lewis, Frank D., assignor.)
Patterson, George F., Baltimore, Md. Stoker-grate. No. 1,395,006; Oct. 25.
Payne, Alvah, Orange, Tex. Baling-press. No. 1,395,135; Oct. 25.
Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Pitman connection. No. 1,394,784; Oct. 25.
Perkins, Clement L., Pittsburgh, Pa., assignor to Metals Recovery Company, New York, N. Y. Flotation agent. No. 1,394,639; Oct. 25.
Perkins, Clement L., Pittsburgh, Pa., assignor to Metals Recovery Company, New York, N. Y. Concentration of minerals. No. 1,394,640; Oct. 25.
Perkins, Thomas F., Atlanta, Tex. Automatic toller. No. 1,394,760; Oct. 25.
Perkins, Thomas F., Atlanta, Tex. Grain-toller. No. 1,394,761; Oct. 25.
Peterson, Henry A., Atwood, Kans. Dump for grain-elevators and the like. No. 1,394,577; Oct. 25.
Phillips, John W., Chicago, Ill. Colloidal suspension of polymers and making the same. No. 1,395,242; Oct. 25.
Pico, Albert P. F., Kansas City, Mo. Autographic register. No. 1,394,785; Oct. 25.
Pike, Robert D., San Francisco, Calif. Apparatus for molding articles from plastic materials. No. 1,394,786; Oct. 25.
Pleshe, Louis, Chicago, Ill. Rail-joint. No. 1,395,136; Oct. 25.
Pluderi, Eraldo, Turro Milanese, assignor to E. Schieroni and R. Frigerio, Milan, Italy. Cinematographic machine. No. 1,395,137; Oct. 25.
Plummer, George C., Chicago, assignor to T. J. Hruby, Cicero, Ill. Lug-equipped traction-wheel. No. 1,394,685; Oct. 25.
Plush, Earl V., Meade, Kans. Internal-combustion engine. No. 1,395,138; Oct. 25.
Poole, Arthur R., Kenilworth, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y. Calculating-machine. No. 1,394,641; Oct. 25.
Porter, Hollis P., Tulsa, Okla. Fuel-burner. No. 1,395,139; Oct. 25.
Porter, Winfield P., New York, N. Y. Pneumatic tire. No. 1,394,787; Oct. 25.
Post, Arthur W., Westbury, N. Y., assignor to American Telephone and Telegraph Company. Telegraph system. No. 1,395,007; Oct. 25.
Potstada, George, Oakland, Calif. Display-clamp. No. 1,394,788; Oct. 25.
Pratt, Maud, Chicago, Ill. Hand portable sewing-machine. No. 1,394,936; Oct. 25.
Prell, Henry, Cleveland, Ohio. Cleaner. No. 1,394,789; Oct. 25.
Prince, Arthur C., Chicago, Ill. Bank. No. 1,395,008; Oct. 25.
Process Engineers Incorporated. (See De Cew, Judson A., assignor.)
Purcell, Isaac S., Oak Park, assignor to Tentobed Company, Chicago, Ill. Cot. No. 1,394,578; Oct. 25.
Purcell, Isaac S., Oak Park, assignor to Tentobed Company, Chicago, Ill. Tent. No. 1,394,579; Oct. 25.
Quass, Ralph L., Hawthorne, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric signaling system. No. 1,394,642; Oct. 25.
Radio Corporation of America. (See Wright, George M., assignor.)
Rager, Glenn N., near Reamn, Ind. Compressing mechanism. No. 1,394,580; Oct. 25.
Rail Joint Company, The. (See Braine, Bancroft G., assignor.)
Rail Joint Company, The. (See Wolhaupter, Benjamin, assignor.)
Rao Manufacturing Company. (See Tornsjo, Gustaf E., assignor.)
Rapp, Axel G. J., Chicago, Ill., and L. M. Ewell, Pittsburgh, Pa., assignors to Link Belt Company. Hutch-valve-operating mechanism. No. 1,395,009; Oct. 25.
Ray, William H., assignor to The Weis Fibre Container Corporation, Monroe, Mich. Cover-sealing means. No. 1,394,581; Oct. 25.
Ray, William H. (See Weis, A. L., and Ray.)
R. D. E. Manufacturing Co. (See Ruebsamen, A., and Dennis, assignor.)
Reaugh, Frank, Oakcliff, Tex. Pump or motor. No. 1,394,641; Oct. 25.
Redmon, Claude F., L. K. Redmon, C. G. Redmon, and J. T. Redmon, assignors of one-fifth to W. H. Whitley, Paris, Ky. Powder-blower. No. 1,394,686; Oct. 25.
Redmon, Claude G. (See Redmon, C. F., L. K., C. G., and J. T.)
Redmon, John T. (See Redmon, Claude F., L. K., C. G., and J. T.)
Redmon, Lillard K. (See Redmon, Claude F., L. K., C. G., and J. T.)
Reed, Albert F., Wapello, Iowa. Piston-ring tool. No. 1,395,140; Oct. 25.
Reed, C. E. (See Sorensen, Sam, assignor.)
Reeves, George G., Humble, Tex. Drilling apparatus. No. 1,395,050; Oct. 25.
Reichart, William M., Cleveland, Ohio. Electric feed-water regulator. No. 1,394,643; Oct. 25.
Reichelt, Ludwig, Pittsfield, Mass., assignor to General Electric Company. Resistance unit. No. 1,394,937; Oct. 25.
Reid, William, Chicago, Ill. Carbureter. No. 1,394,687; Oct. 25.
Reising, Eugene G., East Hartford, Conn. Firearm. No. 1,395,141; Oct. 25.
Remington Accounting Machine Corporation. (See Poole, Arthur R., assignor.)
Remington Typewriter Company. (See Dudley, Arthur J., assignor.)
Remington Typewriter Company. (See McKay, Henry N., assignor.)
Remington Typewriter Company. (See Woodward, Oscar, assignor.)
Renault, Joseph W., New Haven, Conn. Train stop and signal system. No. 1,395,142; Oct. 25.
Reno, Milton C., Corliss, Pa. Lift for flush-valves. No. 1,394,862; Oct. 25.
Research Corporation. (See Kennard, Harold J., assignor.)
Reynolds, Edwin, Vineland, N. J. Reversible temple member for spectacles. No. 1,394,863; Oct. 25.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Transferring mechanism for automatic filling-replenishing looms. No. 1,395,010; Oct. 25.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Battery mechanism for automatic filling replenishing looms. No. 1,395,011; Oct. 25.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Filling-severing means for automatic filling-replenishing looms. No. 1,395,012; Oct. 25.
R. H. S. Motors, Incorporated. (See Stewart, Robert H., assignor.)
Richie, David R. (See Allen, C. J., Howard, and Richie.)
Rickey, Ignas, Rochester, N. Y. Manufacturing shoes and a shoe made by such method. No. 1,394,938; Oct. 25.
Riebe, Albert W., Königsberg, Germany. Device for automatically turning over leaves of a book formed with several turning-arms. No. 1,395,143; Oct. 25.
Rigas, Frank. (See Chmurski, Anton J., assignor.)
Rimailho, Emile, assignor to Compagnie des Forges et Aciéries de la Marine et d'Homecourt, Paris, France. Apparatus for throwing the wheels into and out of action of a vehicle having both wheels and endless tracks. No. 1,395,144; Oct. 25.
Riza, George P. (See Enache, Cociu, assignor.)
Robbins, Charles F., Keene, N. H. Cutter-blade grinder. No. 1,395,145; Oct. 25.
Roberts, Edward L. (See Smith, Orland V., assignor.)
Roberts, Henry T., New York, N. Y. Wrench. No. 1,394,939; Oct. 25.
Roberts, Walter, *et al.* (See Speed, John, assignor.)
Roberts, William E., assignor, by mesne assignments, to Foundation Oven Corporation, New York, N. Y. Air-valves for coke-ovens or the like. No. 1,395,060; Oct. 25.
Roberts, William E., assignor, by mesne assignments, to Foundation Oven Corporation, New York, N. Y. Coke-oven door. No. 1,395,061; Oct. 25.
Robinson, Daniel P., and J. Coyle, Baltimore, Md., and A. L. Kronquest, Chicago, Ill., assignors to Continental Can Company, Inc., Syracuse, N. Y. Slitter-feed. No. 1,395,207; Oct. 25.
Rosenfield, William W., White Plains, N. Y., assignor to Electric Vacuum Cleaner Company, Inc. Suction-cleaner. No. 1,394,940; Oct. 25.
Ross, David E., assignor to Ross Gear and Tool Company, La Fayette, Ind. Steering-gear. No. 1,395,013; Oct. 25.
Ross Gear and Tool Company. (See Ross, David E., assignor.)
Ross, George G., South Greensburg, Pa. Record-rack cabinet. No. 1,394,864; Oct. 25.
Rottman, George, New York, N. Y. Buckle. No. 1,394,644; Oct. 25.
Roughedge, William H., Ottawa, Ontario, Canada. Mold for constructing concrete houses and other buildings. No. 1,394,790; Oct. 25.

Rowell, Charles V., Croydon, near Sydney, New South Wales, Australia. Apparatus for processing grain under high pressure and high temperature. No. 1,395,014; Oct. 25.

Rowell, Charles V., Croydon, near Sydney, New South Wales, Australia. Treating wheat grains and product therefrom. No. 1,395,015; Oct. 25.

Rowland, Andrew J., assignor to The Federal Products Company, Cincinnati, Ohio. Oilproof impregnating agent or coating and process. No. 1,395,016; Oct. 25.

Rub-Tex Products, Inc. (See Klug, Louis E., assignor.)

Ruebsamen, Albert, and W. L. Dennis, assignors to The R. D. R. Manufacturing Co., Decatur, Ill. Fare-collecting box. No. 1,394,941; Oct. 25.

Runyan, Benjamin F., assignor of fifty-one per cent. to J. P. Markham, Jr., Houston, Tex. Pipe-coupling. No. 1,394,791; Oct. 25.

Ruschmeyer, William J. H., Toledo, Ohio. Combination-lock. No. 1,394,792; Oct. 25.

Rutherford, Robert B., St. Louis, Mo. Automobile-lock. No. 1,395,146; Oct. 25.

Rutherford, William A., Salem, Oreg. Dirigible headlight. No. 1,395,147; Oct. 25.

Rutten, Frank M., assignor to A. R. Hilsabeck, Grand Forks, N. D. Automatic safety adjustable tractor-coupling. No. 1,394,793; Oct. 25.

Sager, Eli E., and O. L. Kling, San Francisco, Calif. Combination carbonator and filler. No. 1,394,794; Oct. 25.

Sagle, Roy E., Roseville, Ohio. Signal system. No. 1,395,208; Oct. 25.

San Diego Consolidated Gas & Electric Company. (See Klauber, Laurence M., assignor.)

Sargent Company. (See Sargent, George H., assignor.)

Sargent, George H., assignor to Sargent Company, Chicago, Ill. Water-gage. No. 1,395,062; Oct. 25.

Sater, Peter E. C., Cleveland, Ohio. Bushing for outlet-boxes. No. 1,394,942; Oct. 25.

Saucke, Herman, New York, N. Y. Metal-drill. No. 1,394,865; Oct. 25.

Saul, Henry C., Douglas, Wyo. Clock-escapement. No. 1,395,148; Oct. 25.

Sauter, Alfred and L., Chicago, Ill. Printer's quoin. No. 1,395,149; Oct. 25.

Sauter, Leo. (See Sauter, Alfred and L.)

Sauve, Patrick, Flint, Mich. Drill or tap holder. No. 1,394,795; Oct. 25.

Scalfaro, Frank A., and J. A. McLeod, Chicago, Ill. Electric cloth-cutter. No. 1,395,150; Oct. 25.

Schaefer, Peter C., Denver, Colo. Fastening device for auto porch-beds. No. 1,395,151; Oct. 25.

Schieroni, Ettore, *et al.* (See Pluderi, Eraldo, assignor.)

Schilling, Hugo O., assignor, by mesne assignments, to the firm of Hanns Metallwerk G. m. b. H., Abteilung Maschinenfabrik, Hamburg, Germany. Filling-machine for doughy and powdery material. No. 1,394,892; Oct. 25.

Schoenknecht, Curt E. G., Newark, N. J. Bicycle. No. 1,394,866; Oct. 25.

Schomacker, Bernard G., Glendorf, Ohio. Chair-back and picture-frame therefor. No. 1,395,153; Oct. 25.

Schmid, Herman. (See Fuegel, G., and Schmid.)

Schmidt, Benjamin F., Exeter, Calif. Brake-operating means for motor-vehicles. No. 1,394,645; Oct. 25.

Schneider, John Elisabeth, N. J. Twisting-tool. No. 1,395,152; Oct. 25.

Schroeder, Ruth S. M., Chicago, Ill. Hair-dressing appliance. No. 1,394,943; Oct. 25.

Schuermann, Anton C., assignor to Adolph Mueller, trustee, Decatur, Ill. Combined stop-cock and strainer. No. 1,394,762; Oct. 25.

Schuermann, Anton C. (See Mueller, P., and Schuermann.)

Schultz, Paul, Middleville, N. Y. Splitting-wedge. No. 1,395,209; Oct. 25.

Schwarz, Alfred, Joplin, Mo., assignor to Metals Recovery Company, New York, N. Y. Concentration of ores and the like. No. 1,394,958; Oct. 25.

Scott, Walter, Lakewood, Ohio. Portable driving mechanism for talking-machines and the like. No. 1,394,763; Oct. 25.

Scott, Walter, Sheridan, Wyo. Tone-modifier for phonographs. No. 1,394,646; Oct. 25.

Seeger, Robert, St. Louis, Mo., assignor to New Process Oil Company. Apparatus for treating hydrocarbon oils. No. 1,394,688; Oct. 25.

Selinger-Balser, Joseph, Oberateinmanr, Switzerland. Climbing-iron. No. 1,395,234; Oct. 25.

Serak, George E., assignor to Alfred Decker & Cohn, Inc., Chicago, Ill. Pattern for making clothing. No. 1,394,583; Oct. 25.

Shavor, Frederick R. (See Creighton, E. E. F., and Shavor.)

Shaw, Frederick H. (See Dobbins, Michael G., assignor.)

Shaw, Richard E., Fresno, Calif. Auxiliary ignition system for gas-engines. No. 1,394,944; Oct. 25.

Sheehan, Nicholas I., Lakewood, Ohio. Baseball game. No. 1,394,764; Oct. 25.

Shelly, Samuel, Philadelphia, Pa., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Stop mechanism for phonographs. No. 1,395,017; Oct. 25.

Shelton, Roy C., Nashville, Tenn. Tractor-cultivator. No. 1,395,210; Oct. 25.

Sherman, Moses, St. Louis, Mo. Folding-bed couch. No. 1,394,584; Oct. 25.

Showers, George D., Altoona, Pa. Flush-valve. No. 1,394,945; Oct. 25.

Shurtleff, Wilfred, assignor to Moline Heat, Moline, Ill. Ventilating unit. No. 1,394,946; Oct. 25.

Simi, Bohuslav, Chicago, Ill. Dental amalgam or alloy mixer. No. 1,395,235; Oct. 25.

Singer, Julius, New York, N. Y. Pan-rack. No. 1,394,947; Oct. 25.

Sklar, John, Brooklyn, N. Y. Tonsillotome. No. 1,394,867; Oct. 25.

Slingerland, William A., Portland, Oreg. Chronometer. No. 1,395,154; Oct. 25.

Simpson, Jacob, Washington, D. C. Printing-plate-trimming machine. No. 1,394,765; Oct. 25.

Smalley Manufacturing Company. (See Frick, Orlando C., assignor.)

Smith, Adoniram J., assignor of one-half to T. P. Fridan, Seattle, Wash. Holder for spools, &c. No. 1,395,155; Oct. 25.

Smith, Albert, Leetonia, Ohio. Scraper. No. 1,394,868; Oct. 25.

Smith, Carlisle F., Kokomo, Ind. Carbureted-fuel separator and fuel-vaporizer. No. 1,394,948; Oct. 25.

Smith, Charles, Providence, R. I. Automatic machine for making metallic frames for wreaths. No. 1,394,796; Oct. 25.

Smith, Charles A., Brattleboro, Vt. Boring-machine. No. 1,394,769; Oct. 25.

Smith, George Z. (See Kinter, C. W., and Smith.)

Smith, Henry S., Dixon, Ill., assignor, by mesne assignments, to J. I. Case Threshing Machine Company, Racine, Wis. Plow-lift. No. 1,394,767; Oct. 25.

Smith, Herman A., Yonkers, N. Y., assignor of one-half to E. J. Marston, Greenwich, Conn. Method of and apparatus for producing pictures by projection. No. 1,394,707; Oct. 25.

Smith, James E., and C. W. Burger, Washington, D. C. Instrument for use in learning telegraphy. No. 1,394,768; Oct. 25.

Smith, Orland V., Milford, Conn., assignor, by mesne assignments, of one-half to E. L. Roberts, Amarillo, Tex. Auxiliary banking means. No. 1,395,156; Oct. 25.

Smith, Rufus W., Chester, S. C. Spool-steward. No. 1,395,157; Oct. 25.

Smith, Sam R., Los Angeles, Calif. Collapsible bed structure. No. 1,395,158; Oct. 25.

Snyder, Frederick T., Oak Park, assignor to S. D. Flood, Chicago, Ill. Baking apparatus. No. 1,395,211; Oct. 25.

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Spence, John L., Jr., Brooklyn, N. Y. Clamp. No. 1,394,691; Oct. 25.

Spiess, Jules G. (See Kuhn, F., Thomas, and Spiess.)

Spratt, George A., Coatesville, Pa. Aeroplane. No. 1,394,585; Oct. 25.

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Society of Chemical Industry in Basle. (See Grob, Armin, assignor.)

Soden, Thomas B. (See Hawk, Ivan O., assignor.)

Soderstrom, Karl A., Philadelphia, Pa. Valve. No. 1,395,018; Oct. 25.

Sohm, Alfred L., Chicago, Ill. Time-indicating system. No. 1,394,647; Oct. 25.

Sohm, Alfred L., assignor to Sohm Electric Company, Chicago, Ill. Self-winding clock. No. 1,394,689; Oct. 25.

Sohm, Alfred L., assignor to Sohm Electric Company, Chicago, Ill. Pendulum. No. 1,394,690; Oct. 25.

Sohm Electric Company. (See Sohm, Alfred L., assignor.)

Sorensen, Sam, assignor to C. E. Reed, Houston, Tex. Drill-head for oil-wells. No. 1,394,769; Oct. 25.

Stafford Company, The. (See Cowan, Arthur S., assignor.)

Standard Cotton Company of America. (See Levering, James F., assignor.)

Standard Oil Company. (See McKenzie-Martyn, E. C., and Howard, assignors.)

Stearns, Ralph W., Schenectady, N. Y., assignor to General Electric Company. Resistance material. No. 1,394,949; Oct. 25.

Stephens, Robert P., Raton, N. Mex. Signal apparatus. No. 1,394,950; Oct. 25.

Stevens, William C., Summit county, assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Wrapping and unwrapping machine. No. 1,395,063; Oct. 25.

Stewart, Alexander T., Philadelphia, Pa. Safety-razor. No. 1,395,159; Oct. 25.

Stewart, Arthur L., and E. C. Head, assignors to Gleason Works, Rochester, N. Y. Gear-planing machine. No. 1,394,586; Oct. 25.

Stewart, Frank C., Springfield, Mo. Antifrost device. No. 1,394,648; Oct. 25.

Stewart, Robert H., Greensboro, N. C., assignor to R. H. S. Motors, Incorporated. Rotary gas engine or motor. No. 1,394,587; Oct. 25.

Stewart-Warner Speedometer Corporation. (See Goetz, Oscar H., assignor.)

Stocker, James M., Atlanta, Ga. Heating-tank. No. 1,394,692; Oct. 25.

Stockwell, Myron H., Geneva, N. Y. Daylight developing and fixing apparatus for roll-films. No. 1,395,160; Oct. 25.

Stone, Albert H., Boston, Mass. Making depilatory for hides and skins. No. 1,394,588; Oct. 25.

Strobl, Frank P., assignor of one-half to R. Y. Cliff, Sebring, Ohio. Automatic batting-out and slapping-on device. No. 1,395,161; Oct. 25.

Stromberg Motor Devices Company. (See Mock, Frank C., assignor.)

Stromgren, Charles D., Los Angeles, Calif. Valve-silencer. No. 1,395,064; Oct. 25.

Stroud, David H., Jr., Philadelphia, Pa. Rug-weaving, and the product resulting therefrom. No. 1,394,869; Oct. 25.

Stroud, Pearl E., South Heart, N. D. Tire-protecting casting. No. 1,395,162; Oct. 25.

Sturtevant, B. F., Company. (See De Clamecy, Philippe, assignor.)

Sugimura, Nobuchika, Tokyo, Japan, assignor to General Electric Company. Electrical apparatus. No. 1,394,951; Oct. 25.

Sullivan Machinery Company. (See Ferguson, Alexander D., assignor.)

Sullivan Machinery Company. (See Wineman, Wade H., assignor.)

Superheater Company, The. (See McKee, Neal T., assignor.)

Swanson, Frank T., Hayward, Calif. Steam friction device. No. 1,394,962; Oct. 25.

Swinehart, Benjamin C., Akron, Ohio. Cushion-tire. No. 1,394,589; Oct. 25.

Swintek, Martin, Eddyville, Iowa. Traveling screen for suction-nozzles. No. 1,394,693; Oct. 25.

Sylvester, Edward G., Honolulu, Hawaii. Headlight. No. 1,394,694; Oct. 25.

Tacchella, Adolf, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Governor-controlled combustion-engine. No. 1,394,953; Oct. 25.

Talbot, Henry H., St. Joseph, Mo. Bedstead. No. 1,394,695; Oct. 25.

Tatosian, Martin, Bridgeport, Conn. Polishing-machine. No. 1,395,163; Oct. 25.

Taylor, Henry O., Rockford, Ill. Machine for repairing cues and the like. No. 1,395,236; Oct. 25.

Templeton, William G., Colorado Springs, Colo. Weighing-scale. No. 1,394,696; Oct. 25.

Tentobed Company. (See Purcell, Isaac S., assignor.)

Tervas, Joseph K. E., Hancock, Mich. Reel for picture-machines. No. 1,395,164; Oct. 25.

Thomas, Benjamin D., assignor of one-tenth to Thomas-Morse Aircraft Corporation, Ithaca, N. Y. Driving connections for airplane-engines. No. 1,394,870; Oct. 25.

Thomas, Lawrence H. (See Kuhn, F., Thomas, and Spiess.)

Thoms, Max H., assignor to H. Marmon, Indianapolis, Ind. Thread-gage. No. 1,394,650; Oct. 25.

Thomas-Morse Aircraft Corporation. (See Thomas, Benjamin D., assignor.)

Thomas, Seth, Clock Co., The. (See Wehrle, Frank X., assignor.)

Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Safety can-feed chute. No. 1,394,799; Oct. 25.

Thompson, George H., assignor to H. N. Duffey, Jr., Santa Barbara, Calif. Trap. No. 1,394,649; Oct. 25.

Thompson, James H., Trenton, assignor to Hussong Dyeing Machine Company, Groveville, N. J. Dyeing-machine. No. 1,395,165; Oct. 25.

Tidewater Equipment Corporation. (See Hanson, Albert J., assignor.)

Tidewater Paper Mills Company. (See West, J. B., and Walz, assignors.)

Tillman, Ferdinand J., St. Louis, Mo. Calculating-machine. No. 1,394,800; Oct. 25.

Tin Decorating Company of Baltimore, The. (See Holtbaus, George, assignor.)

Tomlinson, George E., Winchester, Ky. Table. No. 1,395,166; Oct. 25.

Tompkins, Gilbert, Thompson, Conn. Agricultural implement. No. 1,394,651; Oct. 25.

Torbensen Axle Company, The. (See Carlson, Gustav W., assignor.)

Tornojo, Gustaf E., St. Paul, assignor to Rao Manufacturing Company, Minneapolis, Minn. Film-hanging device. No. 1,394,697; Oct. 25.

Toronto Type Foundry Company. (See Palmer, Ernest E., assignor.)

Torrington Company, The. (See Graham, J. H., and Foley, assignors.)

Trane, Reuben N., La Crosse, Wis. Thermostatic trap. No. 1,395,167; Oct. 25.

Trembly, Ulysse N., South Lawrence, assignor to Draper Corporation, Hopedale, Mass. Temple-thread parter for looms. No. 1,394,652; Oct. 25.

Trenkamp, Herman J. (See McWilliams, Thomas J., assignor.)

Trent, Lamartine C., Los Angeles, Calif. Continuous method for the purification of sewage. No. 1,394,698; Oct. 25.

Tressler, Donald K., assignor to W. A. Hamor, Pittsburgh, Pa. Manufacture of liquid glue. No. 1,394,653; Oct. 25.

Tressler, Donald K., Pittsburgh, Pa. Manufacture of liquid glue. No. 1,394,654; Oct. 25.

Trostel, Albert O., Milwaukee, Wis. Mineralising hair, wool, and other animal fiber and the product so produced. No. 1,394,655; Oct. 25.

Tucker, Louise B., York, Pa. Measuring and dispensing device. No. 1,395,168; Oct. 25.

Turnbull, William, and E. F. Norelius, Peoria, Ill., assignors to The Holt Manufacturing Company, Stockton, Calif. Anti-aircraft-gun mount. No. 1,395,020; Oct. 25.

Turnbull, William, assignor to The Holt Manufacturing Company, Stockton, Calif. Traction-engine mechanism. No. 1,395,019; Oct. 25.

Turner, Henry B., Suisun, Calif. Tread for tractor-wheels. No. 1,395,227; Oct. 25.

Tuttle, Roy X., Battle Creek, Mich. Administering therapeutic light treatments. No. 1,395,065; Oct. 25.

U. S. Slicing Machine Company. (See Luschka, A. R., and Folk, assignors.)

Umbdenstock, Walter, assignor to The Hill Pump Valve Company, Chicago, Ill. Machine for castellating nuts. No. 1,395,169; Oct. 25.

Underhill, Charles R., New Haven, Conn. Controlling mechanism. No. 1,395,066; Oct. 25.

United Printing Machinery Company. (See Belluche, Frank E., assignor.)

United Shoe Machinery Corporation. (See Johnson, Albert E., assignor.)

United States Gypsum Company. (See Birdsey, Charles R., assignor.)

Vail, George L., Cleveland Heights, Ohio. Shutter. No. 1,394,656; Oct. 25.

Van Aller, Tycho, Schenectady, N. Y., assignor to General Electric Company. Metal-melting pot. No. 1,394,954; Oct. 25.

Van Syckle, Cecil E., Lakewood, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Scraper attachment for unloader-buckets. No. 1,394,699; Oct. 25.

Victor Tool Company, The. (See Koontz, Victor E., assignor.)

Von Recklinghausen, Max, assignor to Air Reduction Company, New York, N. Y. Apparatus for filling oxygen-cylinders. No. 1,394,955; Oct. 25.

Walden, Alfred E., Detroit, Mich. Fuel-supply-control mechanism. No. 1,395,212; Oct. 25.

Waldes & Co. (See Mann, Alfred, assignor.) (Reissue.)

Walker, Lewis, Richmond, Va. Boot and shoe stretcher. No. 1,394,871; Oct. 25.

Walls, Alexander G., assignor to Walter McGee & Son, Limited, Paisley, Renfrewshire, Scotland. Balling-machine. No. 1,395,213; Oct. 25.

Walz, Louis J. (See West, J. B., and Walz.)

Warne, Arthur S., Vancouver, British Columbia, Canada. Camera-shutter release. No. 1,395,214; Oct. 25.

Warren, Herbert W., Osseo, Mich. Changeable-speed gear. No. 1,395,067; Oct. 25.

Watson Wagon Company. (See Keesler, Clyde C., assignor.)

Weaver, Robert R., assignor to General American Tank Car Corporation, Chicago, Ill. Tank-car. No. 1,394,956; Oct. 25.

Webster, Towner K. (See Whitney, William A., assignor.)

Wehrle, Frank X., assignor to The Seth Thomas Clock Co., Thomaston, Conn. Ship's-bells clock. No. 1,394,957; Oct. 25.

Weis, Andrew L., assignor to The Weis Fibre Container Corporation, Monroe, Mich. Open-end container. No. 1,394,590; Oct. 25.

Weis, Andrew L., assignor to The Weis Fibre Container Corporation, Monroe, Mich. Slide-cover box. No. 1,394,591; Oct. 25.

Weis, Andrew L., and W. H. Ray, assignor to The Weis Fibre Container Corporation, Monroe, Mich. Metal-bound fiber container. No. 1,394,592; Oct. 25.

Weis Fibre Container Corporation, The. (See Ray, William H., assignor.)

Weis Fibre Container Corporation, The. (See Weis, Andrew L., assignor.)

Weis Fibre Container Corporation, The. (See Weis, A. L., and Ray, assignors.)

Welliki, George, assignor of one-half to M. Kaminska, Hamilton, Ontario, Canada. Aeroplane. No. 1,395,068; Oct. 25.

Wellman-Seaver-Morgan Company, The. (See Van Syckle, Cecil E., assignor.)

Wells, Elmer E., Stockton, Calif. Oil-filter for gas-engines. No. 1,395,069; Oct. 25.

Wentsell, Lewis P., Greensburg, Pa. Channel-iron and anchor. No. 1,395,070; Oct. 25.

Wentsell, Lewis P., Greensburg, Pa. Clip. No. 1,395,071; Oct. 25.

Wertz, Peter, Pittsburgh, Pa. Blow-off valve. No. 1,394,657; Oct. 25.

West, John B., and L. J. Walz, assignor to Tidewater Paper Mills Company, Brooklyn, N. Y. Apparatus for heading rolls of paper. No. 1,394,700; Oct. 25.

Western Electric Company. (See Quass, Ralph L., assignor.)

Wetmore, Albert G., Plymouth, Ind. Box and process of and apparatus for the manufacture thereof. No. 1,394,593; Oct. 25.

Wheeler, George B., New York, N. Y. Washboard. No. 1,394,801; Oct. 25.

Whipple, Ralph, Detroit, Mich. Automatic steering and control mechanism for tractors. (Reissue.) No. 15,214; Oct. 25.

White, Jessee M., Philadelphia, Pa. Locking device for automobiles. No. 1,394,872; Oct. 25.

Whitehead, Samuel, Romford, England. Pencil-sharpener. No. 1,395,241; Oct. 25.

Whitley, Wade H. (See Redmon, Claude F., L. K., C. G., and J. T., assignors.)

Rowell, Charles V., Croydon, near Sydney, New South Wales, Australia. Apparatus for processing grain under high pressure and high temperature. No. 1,395,014; Oct. 25.

Rowell, Charles V., Croydon, near Sydney, New South Wales, Australia. Treating wheat grains and product therefrom. No. 1,395,015; Oct. 25.

Rowland, Andrew J., assignor to The Federal Products Company, Cincinnati, Ohio. Oilproof impregnating agent or coating and process. No. 1,395,016; Oct. 25.

Rub-Tex Products, Inc. (See Klug, Louis E., assignor.)

Ruebsamen, Albert, and W. L. Dennis, assignors to The R. D. R. Manufacturing Co., Decatur, Ill. Fare-collecting box. No. 1,394,941; Oct. 25.

Runyan, Benjamin F., assignor of fifty-one per cent. to J. P. Markham, Jr., Houston, Tex. Pipe-coupling. No. 1,394,791; Oct. 25.

Ruschmeyer, William J. H., Toledo, Ohio. Combination-lock. No. 1,394,792; Oct. 25.

Rutherford, Robert B., St. Louis, Mo. Automobile-lock. No. 1,395,146; Oct. 25.

Rutherford, William A., Salem, Oreg. Dirigible head-light. No. 1,395,147; Oct. 25.

Rutten, Frank M., assignor to A. B. Hilsabeck, Grand Forks, N. D. Automatic safety adjustable tractor-coupling. No. 1,394,793; Oct. 25.

Sager, Eli E., and O. L. King, San Francisco, Calif. Combination carbonator and filler. No. 1,394,794; Oct. 25.

Sagle, Roy E., Roseville, Ohio. Signal system. No. 1,395,208; Oct. 25.

San Diego Consolidated Gas & Electric Company. (See Klauber, Laurence M., assignor.)

Sargent Company. (See Sargent, George H., assignor.)

Sargent, George H., assignor to Sargent Company, Chicago, Ill. Water-gage. No. 1,395,062; Oct. 25.

Sater, Peter E. C., Cleveland, Ohio. Bushing for outlet-boxes. No. 1,394,942; Oct. 25.

Sancke, Herman, New York, N. Y. Metal-drill. No. 1,394,865; Oct. 25.

Saul, Henry C., Douglas, Wyo. Clock-escapement. No. 1,395,148; Oct. 25.

Sauter, Alfred and L., Chicago, Ill. Printer's quoin. No. 1,395,149; Oct. 25.

Sauter, Leo. (See Sauter, Alfred and L.)

Sauve, Patrick, Flint, Mich. Drill or tap holder. No. 1,394,795; Oct. 25.

Scalfaro, Frank A., and J. A. McLeod, Chicago, Ill. Electric cloth-cutter. No. 1,395,150; Oct. 25.

Schaefer, Peter C., Denver, Colo. Fastening device for auto porch-beds. No. 1,395,151; Oct. 25.

Schieroni, Ettore, *et al.* (See Pluderi, Eraldo, assignor.)

Schilling, Hugo O., assignor, by mesne assignments, to the firm of Hansa Metallwerk G. m. b. H., Abteilung Maschinenfabrik, Hamburg, Germany. Filling-machine for doughy and powdery material. No. 1,394,582; Oct. 25.

Schoenknecht, Curt E. G., Newark, N. J. Bicycle. No. 1,394,866; Oct. 25.

Schomacker, Bernard G., Glendorf, Ohio. Chair-back and picture-frame therefor. No. 1,395,153; Oct. 25.

Schmid, Herman. (See Fuegel, G., and Schmid.)

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Standard Cotton Company of America. (See Levering, James F., assignor.)

Standard Oil Company. (See McKenzie-Martyn, E. C., and Howard, assignors.)

Stearns, Ralph W., Schenectady, N. Y., assignor to General Electric Company. Resistance material. No. 1,394,949; Oct. 25.

Stephens, Robert P., Raton, N. Mex. Signal apparatus. No. 1,394,950; Oct. 25.

Stevens, William C., Summit county, assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Wrapping and unwrapping machine. No. 1,395,063; Oct. 25.

Stewart, Alexander T., Philadelphia, Pa. Safety-razor. No. 1,395,159; Oct. 25.

Stewart, Arthur L., and E. C. Head, assignors to Gleason Works, Rochester, N. Y. Gear-planing machine. No. 1,394,586; Oct. 25.

Stewart, Frank C., Springfield, Mo. Antifrost device. No. 1,394,648; Oct. 25.

Stewart, Robert H., Greensboro, N. C., assignor to R. H. S. Motors, Incorporated. Rotary gas engine or motor. No. 1,394,587; Oct. 25.

Stewart-Warner Speedometer Corporation. (See Goetz, Oscar H., assignor.)

Stocker, James M., Atlanta, Ga. Heating-tank. No. 1,394,692; Oct. 25.

Stockwell, Myron H., Geneva, N. Y. Daylight developing and fixing apparatus for roll-films. No. 1,395,160; Oct. 25.

Stone, Albert H., Boston, Mass. Making depilatory for hides and skins. No. 1,394,589; Oct. 25.

Strobl, Frank P., assignor of one-half to R. Y. Cliff, Sebring, Ohio. Automatic batting-out and slapping-on device. No. 1,395,161; Oct. 25.

Stromberg Motor Devices Company. (See Mock, Frank C., assignor.)

Stromgren, Charles D., Los Angeles, Calif. Valve-silencer. No. 1,395,064; Oct. 25.

Stroud, David H., Jr., Philadelphia, Pa. Rug-weaving, and the product resulting therefrom. No. 1,394,869; Oct. 25.

Stroud, Pearl E., South Heart, N. D. Tire-protecting casting. No. 1,395,162; Oct. 25.

Sturtevant, B. F., Company. (See De Clamecy, Philippe, assignor.)

Sugimura, Nobuchika, Tokyo, Japan, assignor to General Electric Company. Electrical apparatus. No. 1,394,951; Oct. 25.

Sullivan Machinery Company. (See Ferguson, Alexander D., assignor.)

Sullivan Machinery Company. (See Wineman, Wade H., assignor.)

Superheater Company, The. (See McKee, Neal T., assignor.)

Swanson, Frank T., Hayward, Calif. Steam friction device. No. 1,394,952; Oct. 25.

Swinehart, Benjamin C., Akron, Ohio. Cushion-tire. No. 1,394,589; Oct. 25.

Swintek, Martin, Eddyville, Iowa. Traveling screen for suction-nozzles. No. 1,394,693; Oct. 25.

Sylvester, Edward G., Honolulu, Hawaii. Headlight. No. 1,394,694; Oct. 25.

Tacchella, Adolf, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Governor-controlled combustion-engine. No. 1,394,953; Oct. 25.

Talbot, Henry F., St. Joseph, Mo. Bedstead. No. 1,394,695; Oct. 25.

Tatosian, Martin, Bridgeport, Conn. Polishing-machine. No. 1,395,163; Oct. 25.

Taylor, Henry O., Rockford, Ill. Machine for repairing cues and the like. No. 1,395,236; Oct. 25.

Templeton, William G., Colorado Springs, Colo. Weighing-scale. No. 1,394,696; Oct. 25.

Tentobel Company. (See Purcell, Isaac S., assignor.)

Tervas, Joseph K. E., Hancock, Mich. Reel for picture-machines. No. 1,395,164; Oct. 25.

Thomas, Benjamin D., assignor of one-tenth to Thomas-Morse Aircraft Corporation, Ithaca, N. Y. Driving connections for airplane-engines. No. 1,394,870; Oct. 25.

Thomas, Lawrence H. (See Kuhn, F., Thomas, and Spiess.)

Thoms, Max H., assignor to H. Marmon, Indianapolis, Ind. Thread-gage. No. 1,394,650; Oct. 25.

Thomas-Morse Aircraft Corporation. (See Thomas, Benjamin D., assignor.)

Thomas, Seth, Clock Co., The. (See Wehrle, Frank X., assignor.)

Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Safety can-feed chute. No. 1,394,799; Oct. 25.

Thompson, George H., assignor to H. N. Duffey, Jr., Santa Barbara, Calif. Trap. No. 1,394,649; Oct. 25.

Thompson, James H., Trenton, assignor to Hussong Dyeing Machine Company, Groveville, N. J. Dyeing-machine. No. 1,395,165; Oct. 25.

Tidewater Equipment Corporation. (See Hanson, Albert J., assignor.)

Tidewater Paper Mills Company. (See West, J. B., and Walz, assignors.)

Tillman, Ferdinand J., St. Louis, Mo. Calculating-machine. No. 1,394,800; Oct. 25.

Tin Decorating Company of Baltimore, The. (See Holthaus, George, assignor.)

Tomlinson, George E., Winchester, Ky. Table. No. 1,395,166; Oct. 25.

Tompkins, Gilbert, Thompson, Conn. Agricultural implement. No. 1,394,651; Oct. 25.

Torbensen Axle Company, The. (See Carlson, Gustav W., assignor.)

Tornajo, Gustaf E., St. Paul, assignor to Rao Manufacturing Company, Minneapolis, Minn. Film-hanging device. No. 1,394,697; Oct. 25.

Toronto Type Foundry Company. (See Palmer, Ernest E., assignor.)

Torrington Company, The. (See Graham, J. H., and Foley, assignors.)

Trane, Reuben N., La Crosse, Wis. Thermostatic trap. No. 1,395,167; Oct. 25.

Trembly, Ulysse N., South Lawrence, assignor to Draper Corporation, Hopedale, Mass. Temple-thread parter for looms. No. 1,394,652; Oct. 25.

Trenkamp, Herman J. (See McWilliams, Thomas J., assignor.)

Trent, Lamartine C., Los Angeles, Calif. Continuous method for the purification of sewage. No. 1,394,698; Oct. 25.

Tressler, Donald K., assignor to W. A. Hamor, Pittsburgh, Pa. Manufacture of liquid glue. No. 1,394,653; Oct. 25.

Tressler, Donald K., Pittsburgh, Pa. Manufacture of liquid glue. No. 1,394,654; Oct. 25.

Trostel, Albert O., Milwaukee, Wis. Mineralising hair, wool, and other animal fiber and the product so produced. No. 1,394,655; Oct. 25.

Tucker, Louise B., York, Pa. Measuring and dispensing device. No. 1,395,168; Oct. 25.

Turnbull, William, and E. F. Norelius, Peoria, Ill., assignors to The Holt Manufacturing Company, Stockton, Calif. Anti-aircraft-gun mount. No. 1,395,020; Oct. 25.

Turnbull, William, assignor to The Holt Manufacturing Company, Stockton, Calif. Traction-engine mechanism. No. 1,395,019; Oct. 25.

Turner, Henry B., Suisun, Calif. Tread for tractor-wheels. No. 1,395,237; Oct. 25.

Tuttle, Roy X., Battle Creek, Mich. Administering therapeutic light treatments. No. 1,395,065; Oct. 25.

U. S. Slicing Machine Company. (See Luschka, A. R., and Folk, assignors.)

Umbdenstock, Walter, assignor to The Hill Pump Valve Company, Chicago, Ill. Machine for castellating nuts. No. 1,395,169; Oct. 25.

Underhill, Charles R., New Haven, Conn. Controlling mechanism. No. 1,395,066; Oct. 25.

United Printing Machinery Company. (See Belluche, Frank E., assignor.)

United Shoe Machinery Corporation. (See Johnson, Albert E., assignor.)

United States Gypsum Company. (See Birdsey, Charles R., assignor.)

Vail, George I., Cleveland Heights, Ohio. Shutter. No. 1,394,656; Oct. 25.

Van Aller, Tycho, Schenectady, N. Y., assignor to General Electric Company. Metal-melting pot. No. 1,394,954; Oct. 25.

Van Syckle, Cecil E., Lakewood, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Scraper attachment for unloader-buckets. No. 1,394,699; Oct. 25.

Victor Tool Company, The. (See Koontz, Victor R., assignor.)

Von Recklinghausen, Max, assignor to Air Reduction Company, New York, N. Y. Apparatus for filling oxygen-cylinders. No. 1,394,955; Oct. 25.

Walden, Alfred E., Detroit, Mich. Fuel-supply-control mechanism. No. 1,395,212; Oct. 25.

Waldes & Co. (See Mann, Alfred, assignor.) (Reissue.)

Walker, Lewis, Richmond, Va. Boot and shoe stretcher. No. 1,394,871; Oct. 25.

Walls, Alexander G., assignor to Walter McGee & Son, Limited, Paisley, Renfrewshire, Scotland. Balling-machine. No. 1,395,213; Oct. 25.

Walz, Louis J. (See West, J. B., and Walz.)

Warne, Arthur S., Vancouver, British Columbia, Canada. Camera-shutter release. No. 1,395,214; Oct. 25.

Warren, Herbert W., Osseo, Mich. Changeable-speed gear. No. 1,395,067; Oct. 25.

Watson Wagon Company. (See Keesler, Clyde C., assignor.)

Weaver, Robert R., assignor to General American Tank Car Corporation, Chicago, Ill. Tank-car. No. 1,394,956; Oct. 25.

Webster, Towner K. (See Whitney, William A., assignor.)

Wehrle, Frank X., assignor to The Seth Thomas Clock Co., Thomaston, Conn. Ship's-bells clock. No. 1,394,957; Oct. 25.

Weis, Andrew L., assignor to The Weis Fibre Container Corporation, Monroe, Mich. Open-end container. No. 1,394,590; Oct. 25.

Weis, Andrew L., assignor to The Weis Fibre Container Corporation, Monroe, Mich. Slide-cover box. No. 1,394,591; Oct. 25.

Weis, Andrew L., and W. H. Ray, assignor to The Weis Fibre Container Corporation, Monroe, Mich. Metal-bound fiber container. No. 1,394,592; Oct. 25.

Weis Fibre Container Corporation, The. (See Ray, William H., assignor.)

Weis Fibre Container Corporation, The. (See Weis, Andrew L., assignor.)

Weis Fibre Container Corporation, The. (See Weis, A. L., and Ray, assignors.)

Welkl, George, assignor of one-half to M. Kaminska, Hamilton, Ontario, Canada. Aeroplane. No. 1,395,068; Oct. 25.

Wellman-Seaver-Morgan Company, The. (See Van Syckle, Cecil E., assignor.)

Wells, Elmer E., Stockton, Calif. Oil-filter for gas-engines. No. 1,395,069; Oct. 25.

Wentsell, Lewis P., Greensburg, Pa. Channel-iron and anchor. No. 1,395,070; Oct. 25.

Wentsell, Lewis P., Greensburg, Pa. Clip. No. 1,395,071; Oct. 25.

Werts, Peter, Pittsburgh, Pa. Blow-off valve. No. 1,394,657; Oct. 25.

West, John B., and L. J. Walz, assignor to Tidewater Paper Mills Company, Brooklyn, N. Y. Apparatus for heading rolls of paper. No. 1,394,700; Oct. 25.

Western Electric Company. (See Quass, Ralph L., assignor.)

Wetmore, Albert G., Plymouth, Ind. Box and process of and apparatus for the manufacture thereof. No. 1,394,593; Oct. 25.

Wheeler, George B., New York, N. Y. Washboard. No. 1,394,801; Oct. 25.

Whipple, Ralph, Detroit, Mich. Automatic steering and control mechanism for tractors. (Reissue.) No. 15,214; Oct. 25.

White, Jessee M., Philadelphia, Pa. Locking device for automobiles. No. 1,394,872; Oct. 25.

Whitehead, Samuel, Romford, England. Pencil-sharpener. No. 1,395,241; Oct. 25.

Whitley, Wade H. (See Redmon, Claude F., L. K., C. G., and J. T., assignors.)

Whitnall, Clarence A., Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Equalizer-bar for chain-track tractors. No. 1,395,621; Oct. 25.
Whitney, William A., Rockford, assignor to T. E. Webster, Evanston, Ill. Universal joint. No. 1,394,701; Oct. 25.
Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Automatic fuel feed and mixture control. No. 1,395,022; Oct. 25.
Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Power-driven steering mechanism for tractors. No. 1,395,023; Oct. 25.
Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Construction for traction-engines. No. 1,395,024; Oct. 25.
Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor-frame suspension. No. 1,395,025; Oct. 25.
Wiget, Mario, New York, N. Y. Safety-vent. No. 1,394,702; Oct. 25.
Wiking, Anders F., Seattle, Wash. Dumping-barge. No. 1,394,564; Oct. 25.
Wilbur, George A., Lansing, Mich. Toy pistol. No. 1,395,072; Oct. 25.
Wilkinson, James, Schenectady, N. Y., assignor to General Electric Company. Shaft-packing. No. 1,394,969; Oct. 25.
Willett, Alfred H., West New York, N. J., assignor to American Arch Company, New York, N. Y. Arch and arch-brick. No. 1,394,573; Oct. 25.
Willey, Charles S., Washington, Ind. Lubricant. No. 1,394,073; Oct. 25.
Williams, Joseph S., Riverton, N. J. Demountable-wheel equipment. No. 1,394,658; Oct. 25.
Wilson, George A. Jr., assignor to Carolina Pavement Company, Boston, Mass. Treating bituminous substances. No. 1,394,874; Oct. 25.
Winberg, August F., Bound Brook, N. J. Windshield-visor. No. 1,394,595; Oct. 25.
Wineman, Wade H., Chicago, Ill., assignor to Sullivan Machinery Company, Boston, Mass. Unloading apparatus for compressors. No. 1,394,802; Oct. 25.
Wing, Charles B., Cedar Rapids, Iowa. Window. No. 1,395,074; Oct. 25.
Winter, Robert C. (See Dibert, L. D., and Winter.)
Wohl, M. J., and Company. (See Wohl, M. J., and Hertzberg, assignors.)
Wohl, M. J., & Co. (See Wohl, M. J., and Mayer, assignors.)
Wohl, Maurice J., Brooklyn, N. Y. Arc-lamp. No. 1,394,875; Oct. 25.
Wohl, Maurice J., Long Island City, and M. Mayer, New York, assignors to M. J. Wohl & Co., Inc., Long Island City, N. Y. Telescopic stand. No. 1,394,900; Oct. 25.
Wohl, Maurice J., and H. Hertzberg, New York, N. Y., assignors to M. J. Wohl and Company, Inc. Arc-lamp. No. 1,394,876; Oct. 25.
Wolhaupter, Benjamin, New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Means for lubricating rail-joints. No. 1,394,577; Oct. 25.
Wolhaupter, Benjamin, New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Rail-end-supporting rail-joint. No. 1,394,586; Oct. 25.
Wolhaupter, Benjamin, New Rochelle, N. Y. Welded rail-anchor. (Reissue.) No. 15,215; Oct. 25.
Wolhaupter, Benjamin, New Rochelle, N. Y. Welded rail-anchor. (Reissue.) No. 15,216; Oct. 25.
Wood and Selick. (See Bigos, Edward, assignor.)
Wood, Walter C., Cranston, R. I. Bracelet and the like. No. 1,394,577; Oct. 25.
Wood, James A. (See Gutridge, J. A., and Wood.)
Wood, William G., assignor to Berkeley Light Corporation, San Francisco, Calif. Headlight. No. 1,395,026; Oct. 25.
Woodward, Oscar, Brighton, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,394,560; Oct. 25.
Wright, Charles S., West Stoughton, Mass. Shuttle. No. 1,394,878; Oct. 25.
Wright, George M., London, England, assignor, by mesne assignments, to Radio Corporation of America. Wireless-telegraph receiver. No. 1,394,900; Oct. 25.
Wright, George M., London, England, assignor, by mesne assignments, to Radio Corporation of America. Thermionic device. No. 1,394,601; Oct. 25.
Wright, Joseph H., Henderson, Tex. Automobile-puller. No. 1,394,703; Oct. 25.
Yates, Robert, Passaic, N. J. Process and apparatus for treating petroleum-oils to produce gasolene. No. 1,395,075; Oct. 25.
Yirikian, John, New York, N. Y. Horizontally-split attachment for removable dental bridgework. No. 1,394,770; Oct. 25.
Zega, Anthony F., Bloomfield, N. J. Cover-support. No. 1,394,879; Oct. 25.
Zent, Wayne P., Troy, N. Y. Master-keyboard. No. 1,394,602; Oct. 25.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Abate, Santo, and J. Buonincontri, Irvington, N. J. Tension device for knitting. No. 59,449; Oct. 25.
Artz, Laura L., Seattle, Wash. Figurette. No. 59,450; Oct. 25.
Atlantic Knitting Mills Inc. (See Bettmann, Jesse W., assignor.)
Balda, Joseph O., assignor to A. H. Heisey & Co., Newark, Ohio. Goblet. No. 59,451; Oct. 25.
Barney, Arthur L., assignor to Tiffany & Company, New York, N. Y. Handle for a spoon, fork, or similar article. No. 59,452; Oct. 25.
Bead Chain Manufacturing Company, The. (See Gagnon, William J., assignor.)
Bernstein, Isidoar, Brooklyn, N. Y. Finger-ring. No. 59,453; Oct. 25.
Bettmann, Jesse W., assignor to Atlantic Knitting Mills Inc., New York, N. Y. Muffler. No. 59,454; Oct. 25.
Brachtl, Henry C., Chicago, Ill. Motor casing. No. 59,455; Oct. 25.
Buonincontri, John. (See Abate, S., and Buonincontri.)
Cole, Abel, Chicago, Ill. Tie-holder or similar article. No. 59,456; Oct. 25.
Continental Rubber Works. (See Smith, Robert J., assignor.)
Cross, Elmer H., Toledo, Ohio. Air-cell formation of an automobile-radiator front. No. 59,457; Oct. 25.
Dandy, Marc H., assignor to North American Lace Company, Philadelphia, Pa. Lace. No. 59,458; Oct. 25.
Davidovitz, Louis, New York, N. Y. Statuette. No. 59,459; Oct. 25.
De Kazarine, Serge, and M. de Porobovchikova, London, England. Dressed doll. Nos. 59,513–14; Oct. 25.
De Porobovchikova, Mary. (See de Kazarine and Porobovchikova.)
Dearborn, Charles A., New York, N. Y. Sewing-machine looper. No. 59,460; Oct. 25.
Dearborn, Charles A., New York, N. Y. Sewing-machine presser-foot. No. 59,461; Oct. 25.
Draper, Arthur P., Lebanon, Mo. Ruler. No. 59,462; Oct. 25.
Dutcher, Alfred M., St. Paul, Minn. Collar-pin. No. 59,463; Oct. 25.
Enstein, Louis H., Cleveland, Ohio. Cap. No. 59,464; Oct. 25.
Estes, Thomas W., Jr., Brooklyn, N. Y. Textile fabric. Nos. 59,465–6; Oct. 25.
Feist, Bertha E., New York, N. Y. Rag doll or article of similar nature. No. 59,467; Oct. 25.
Findlay, Robert, Manufacturing Co. (See Smith, Curtis A., assignor.)
Flauder, Alfred J., Bridgeport, Conn. Combined perfumer and disinfector. No. 59,468; Oct. 25.
Gagnon, William J., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Tassel. No. 59,469; Oct. 25.
Gledhill, James S., and W. H. Smith, Los Angeles, Calif. Animal figure. No. 59,470; Oct. 25.
Grand Council Order of De Molay for Boys. (See Land, Frank S., assignor.)
Hamilton, Edward E., Westfield, Mass. Bow-holder. No. 59,471; Oct. 25.
Haupt, Harry, Elmsford, assignor to Kimpton, Haupt & Co., New York, N. Y. Cover for an inkstand. No. 59,472; Oct. 25.
Haws, Alpheus G., Berkeley, Calif. Sanitary drinking-fountain. No. 59,473; Oct. 25.
Heisey, A. H., & Co. (See Balda, Joseph O., assignor.)
Heisey, A. H., & Co. (See Heisey, Thomas C., assignor.)
Heisey, Thomas C., assignor to A. H. Heisey & Co., Newark, Ohio. Goblet or similar article. No. 59,474; Oct. 25.
Hillyer, Haywood H., St. Louis, Mo. Service badge or button. No. 59,475; Oct. 25.
Hoodwin, J. W., Company. (See Hoodwin, Joseph W., assignor.)
Hoodwin, Joseph W., assignor to J. W. Hoodwin Company, Chicago, Ill. Punch-board for vending-machines. No. 59,476; Oct. 25.
Horn, William Oneonta, assignor to Quality Silk Mills, Inc., New York, N. Y. Ornamentation for a glove or similar article. No. 59,477; Oct. 25.
Howell, Hamilton T., New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Ornament for lighting-fixtures. No. 59,478; Oct. 25.
Humphrey, Clen S., Brooklyn, N. Y. Powder-container or similar receptacle. Nos. 59,479–90; Oct. 25.
Hutchison, Edna A., Independence, Mo. Doll. No. 59,491; Oct. 25.
Jacovini, Pietro, Philadelphia, Pa. Newspaper and parcel holder. No. 59,492; Oct. 25.
Kimpton, Haupt & Co. (See Haupt, Harry, assignor.)
Kostowski, Kowsanty, Rockwood, Pa. Chain ornament. No. 59,493; Oct. 25.

Kraft, Emil J., assignor to Racine Rubber Company, Racine, Wis. Tire. No. 59,494; Oct. 25.
Kreisler, Jacques & Co. (See Kreisler, Jacques, assignor.)
Kreisler, Jacques, assignor to Jacques Kreisler & Co., New York, N. Y. Jewelry—namely, a finger-ring or article of similar nature. No. 59,495; Oct. 25.
Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Waffle-iron. No. 59,496; Oct. 25.
Land, Frank S., assignor to Grand Council Order of De Molay for Boys, Kansas City, Mo. Pin, watch-fob, lapel-button, ring, belt-buckle, seal, pin-button, watch-case, or article of similar nature. No. 59,497; Oct. 25.
Landers, Frary & Clark. (See Lamb, Joseph F., assignor.)
Lapidus, Leon, Brooklyn, N. Y. Combined hinge and bracket socket-piece for lamp-casings. No. 59,498; Oct. 25.
Lucas, Philip G., Jr., St. Louis, Mo. Combined bread-box and flour-bin or similar article. No. 59,499; Oct. 25.
Mannweiler, Anthony C., Fort Wayne, Ind. Incandescent electric lamp. No. 59,500; Oct. 25.
Mayer, Walter W., New York, N. Y. Textile fabric. No. 59,501; Oct. 25.
Meacham, Haskell K., Abilene, Tex. Military uniform. No. 59,502; Oct. 25.
Mendelsohn, Simon C., Johannesburg, Transvaal, South Africa. Mat-holder. No. 59,503; Oct. 25.
Moody, Roy Newton, N. H. Toy. Nos. 59,504–5; Oct. 25.
Murphy, John. (See Pederson, A. M., and Murphy.)
Myers, Earl W., New York, N. Y. Ornamentation for plier-handles or similar tools. No. 59,506; Oct. 25.
North American Lace Company. (See Dandy, Marc H., assignor.)
Ober, Katharine H., Baltimore, Md. Loving-cup. No. 59,507; Oct. 25.
Paraffine Companies, The. (See Post, Cornelia M., assignor.)
Paulson, Arthur, New York, N. Y. Letter-file. No. 59,508; Oct. 25.
Peck, Charles H., Philadelphia, Pa. Ignition-tester and spark-gap. No. 59,509; Oct. 25.
Pederson, Alexander M., and J. Murphy, Duluth, Minn. Antiskid cross-chain. No. 59,510; Oct. 25.
Phillips, Ernest, assignor to The Yale Tire & Rubber Co., New Haven, Conn. Tire. No. 59,511; Oct. 25.
Podolsky, Benjamin, New York, N. Y. Cap. No. 59,512; Oct. 25.
Post, Cornelia M., Philadelphia, Pa., assignor to The Paraffine Companies, Inc., San Francisco, Calif. Linoleum, oilcloth, or floor-covering. Nos. 59,515–22; Oct. 25.
Potter & Buffinton Company. (See Weed, Edward L., assignor.)
Quality Silk Mills. (See Horn, William, assignor.)
Racine Rubber Company. (See Kraft, Emil J., assignor.)
Rufeisen, Henry, Chicago, Ill. Finger-ring. No. 59,523; Oct. 25.
Smith, Albert D., Detroit, Mich. Sewing-machine head. No. 59,524; Oct. 25.
Smith, Curtis A., New Rochelle, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Ring for lighting-fixtures. No. 59,525; Oct. 25.
Smith, Robert J., assignor to Continental Rubber Works, Erie, Pa. Tire. No. 59,526; Oct. 25.
Smith, William H. (See Gledhill, J. S., and Smith.)
Stickney, Jennie G., San Francisco, Calif. Playing-cards. No. 59,527; Oct. 25.
Tiffany & Company. (See Barney, Arthur L., assignor.)
Vester, Alfred, Sons. (See Howell, Hamilton T., assignor.)
Waldbaum, Harry, Philadelphia, Pa. Cap. No. 59,528; Oct. 25.
Weed, Edward L., assignor to Potter & Buffinton Company, Providence, R. I. Charm. No. 59,529; Oct. 25.
Yale Tire & Rubber Co. (See Phillips, Ernest, assignor.)
Zelick, Louis, Philadelphia, Pa. Combined eraser and pencil-sharpener. No. 59,530; Oct. 25.
Zopf, Joseph, Elmira, N. Y. Game apparatus. No. 59,531; Oct. 25.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abraham, A. G., Company, Moline, Ill. Candy. No. 147,529; Oct. 25.
Acme Abrasive Company, Chicago, Ill. Grinding and polishing stones. No. 147,530; Oct. 25.
Agasote Millboard Co., The, Trenton, N. J. Fiber board sold in sheets. No. 147,531; Oct. 25.
Alaska Chemical Company, Jersey City, N. J. Certain skins. No. 147,532; Oct. 25.
Alter, Frank W., Chicago, Ill. Timepieces. No. 147,533; Oct. 25.
American Radiator Company, East Orange, N. J., and Chicago, Ill. Gas-valves for boilers, radiators, and furnaces, and air-valves for radiators. No. 147,534; Oct. 25.
American Radiator Company, East Orange, N. J., and Chicago, Ill. Steel castings. No. 147,535; Oct. 25.
American Sheet & Tin Plate Company, Pittsburgh, Pa. Black sheets of rolled soft steel. No. 147,536; Oct. 25.
American Tripoli Company, Seneca, Mo. Tripoli flour. No. 147,537; Oct. 25.
Anti-Uric Company, San Francisco, Calif. Rheumatism medicine. No. 147,538; Oct. 25.
Ardrossan Worsted Co., The, Frankford, Pa., and New York, N. Y. Worsteds in the piece. No. 147,539; Oct. 25.
Artcraft Clothes Inc., Baltimore, Md. Coats, pants, vests, and overcoats. No. 147,540; Oct. 25.
Ashcraft-Wilkinson Company, Atlanta, Ga. Cotton-seed meal for animal food. No. 147,541; Oct. 25.
B F K Manufacturing Company, The, Hartford, Conn. Hairpins. No. 147,547; Oct. 25.
Baker, George A., Philadelphia, Pa. Fuel-vaporizers for internal-combustion engines. No. 147,542; Oct. 25.
Barnes-Ross Company, The, Indianapolis, Ind. Monthly publication. No. 147,543; Oct. 25.
Bastian-Morley Co., La Porte, Ind. Thermos-jackets, a felt cover for water-heaters and boilers to conserve heat. No. 147,544; Oct. 25.
Bech Van Sicien & Co., Inc., San Francisco, Calif. Wheat-flour. No. 147,710; Oct. 25.
Bennett, R. L., & Sons, Paris, Tex. Cotton-seed. No. 147,723; Oct. 25.
Berg, David, & Co., Chicago, Ill. Sausages and other meat products. No. 147,545; Oct. 25.
Bernstein, Elias, New York, N. Y. Mixed canary-seeds. No. 147,546; Oct. 25.
Blackstone, Alex, Newark, N. J. Chocolate laxative tablet. No. 147,548; Oct. 25.
Bloch, Isabelle M., Seattle, Wash. Piano-player rolls. No. 147,550; Oct. 25.
Bobe, Inc., New York, N. Y. Gowns, ladies' suits, wraps, blouses, hats, scarfs, &c. No. 147,549; Oct. 25.
Booth Brothers (Dial Foundry) Limited, Stourbridge, England. Heel and toe plates for boots and shoes. No. 147,551; Oct. 25.
Bowden, J. B., & Company, New York, N. Y. Finger-rings of all kinds. No. 147,552; Oct. 25.
Boyshform Brassiere Co., The, New York, N. Y. Brassières. No. 147,553; Oct. 25.
Bray & Stanley, Beverly, Mass. Boots and shoes of leather, canvas, and felt. No. 147,554; Oct. 25.
Brower, Walter B., Chicago, Ill. Mechanical spark-plug cleaners. No. 147,555; Oct. 25.
Brown & Haley, Tacoma, Wash. Candies. No. 147,556; Oct. 25.
Brummel & Mendelsohn, New York, N. Y. Hosiery, underwear, and knitted sweaters. Nos. 147,557–8; Oct. 25.
Bush Electric Company, The, Cleveland, Ohio. Certain machines and tools for electrical workers. No. 147,559; Oct. 25.
Buxton & Skinner Printing and Stationery Company, St. Louis, Mo. Mucilage. No. 147,560; Oct. 25.
California State Automobile Association, San Francisco, Calif. Publication published monthly. No. 147,561; Oct. 25.
Catawba Candy Company, The, Sandusky, Ohio. Candy. No. 147,562; Oct. 25.
Cee Bee Gee Dress Co., New York, N. Y. Dresses. No. 147,563; Oct. 25.
Chapman, William M., New Orleans, La. Non-alcoholic maltless beverage. No. 147,724; Oct. 25.
Chase, G. W., & Son Mer. Co., St. Joseph, Mo. Candy. No. 147,564; Oct. 25.
Chauncey, Albert B., Boston, Mass. Neckties or bows. No. 147,565; Oct. 25.
Chemical Works Flora, Dübendorf, Switzerland. Essences, fruit oils, and syrup for food-flavoring. No. 147,566; Oct. 25.
Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics in the piece. No. 147,567; Oct. 25.
Cheney, S., & Son, Manilus, N. Y. Knife and tool sharpeners. No. 147,568; Oct. 25.
Columbia Dairy Products Company, Inc., Vancouver, Wash. Ice-cream and butter. No. 147,569; Oct. 25.
Columbia Ribbon Co., The, Paterson, N. J. Hatbands, skirt and dress beltings, pump-bows, &c. No. 147,570; Oct. 25.
Com-Bah Fibroid Company, Boston, Mass. Toilet-seats. No. 147,571; Oct. 25.
Commercial Union of America, Incorporated, New York, N. Y. Wheat-flour. Nos. 147,572–3; Oct. 25.
Consolidated Rendering Co., Boston, Mass. Grease for soap-making. No. 147,725; Oct. 25.
Cook Paint & Varnish Company, Kansas City, Mo. Varnish. Nos. 147,574–6; Oct. 25.
Corn Products Refining Co., New York, N. Y. Sugar. No. 147,577; Oct. 25.
Crescent Bottling Co., Inc., Newark, N. J. Soft drinks. No. 147,578; Oct. 25.
Curtiss Candy Co., Chicago, Ill. Candy. Nos. 147,579–80; Oct. 25.
Curtiss Grain Corporation, Buffalo, N. Y. Manufactured horse, hog, dairy, calf, poultry, and stock feeds. No. 147,581; Oct. 25.
Cutting, Hunter H., Rockford, Ill. Clock-cases. No. 147,582; Oct. 25.
Cyclometer Corporation, Rochester, N. Y. Power-driven bicycles. No. 147,583; Oct. 25.
Darbonnier & Saperstein, Atlanta, Ga. Phenol glycerin for burns. No. 147,584; Oct. 25.
Darbonnier & Saperstein, Atlanta, Ga. Antiseptic powder of copper, alum, and zinc for women's personal hygiene. No. 147,585; Oct. 25.
Davis System Bakery, Kansas City, Mo. Cream-filled pastries. No. 147,586; Oct. 25.
Dayton Rubber Manufacturing Co., The, Dayton, Ohio. Rubber tires and tubes. No. 147,726; Oct. 25.
Dollfus Mieg & Cie. Societe Anonyme, Mulhouse, France. Hosiery. Nos. 147,587–8; Oct. 25.
Duquesne Steel Foundry Company, Pittsburgh, Pa. Ferrous metals. Nos. 147,589–91; Oct. 25.
Edson, Clarence E., Cleveland, Ohio. Artificial pearls. No. 147,592; Oct. 25.
Edson, Clarence E., Cleveland, Ohio. Candy. No. 147,593; Oct. 25.
Educational Films Corporation of America, New York, N. Y. Motion-pictures. No. 147,594; Oct. 25.
Ehrenreich, A., & Cie., Düsseldorf-Oberkassel, Germany. Time-stamps. No. 147,595; Oct. 25.
Electrik Maid Bake Shops, St. Paul, Minn. Bread. No. 147,596; Oct. 25.
En-Tout-Cas Company, Limited, The, Leicester, England. Tennis and playing courts, pavements, and promenades. No. 147,597; Oct. 25.
Estate Stove Company, The, Hamilton, Ohio. Thermostatically-operated valves. No. 147,598; Oct. 25.
Fabrique d'Horlogerie Electa Gallet & Co. S. A., La Chaux-de-Fonds, Switzerland. Watches and their parts. Nos. 147,599–600; Oct. 25.
Forest Electric Co., Newark, N. J. Electric-battery testers. No. 147,601; Oct. 25.
Fosgate, Chester C., Co., Orlando, Fla. Fresh citrus fruits. No. 147,602; Oct. 25.
Franklin Peanut Co., Franklin, Va. Peanuts in the shell. No. 147,603; Oct. 25.
Gammeter, W. F., Company, The, Cadiz, Ohio. Calender stock-shells. No. 147,604; Oct. 25.
Gard, Thomas D., Co., Inc., Worcester, Mass. Certain jewelry, badges, emblems, medals, and trophies. No. 147,605; Oct. 25.
General Fireproofing Co., The, Youngstown, Ohio. Certain articles of furniture. No. 147,606; Oct. 25.
Georgia Marble Company, The, Tate, Ga. Marble cut to size, finished marble, and cut stone. No. 147,607; Oct. 25.
Gilson, John E., Port Washington, Wis. Combination wheeled hoes, cultivators, and plows. No. 147,608; Oct. 25.
Glick, Max Co., The, Cleveland, Ohio. Candy. No. 147,609; Oct. 25.
Goodrich, B. F., Company, The, New York, N. Y. Hose made of rubber reinforced with fabric. No. 147,610; Oct. 25.
Gordon, Robert, Incorporated, Chicago, Ill. Hot-air furnaces. No. 147,611; Oct. 25.
Grain Growers Grain Company, Minneapolis, Minn. Binder-twine. No. 147,612; Oct. 25.
Grafton & Knight Manufacturing Company, The, Worcester, Mass. Lace-leather and cut laces of leather. No 147,613; Oct. 25.
Gutter, B., & Sons, New York, N. Y. Watches, watchcases, and watch-movements. No. 147,614; Oct. 25.
Gutter, Sigsbie, New York, N. Y. White-sapphire finger-rings. No. 147,615; Oct. 25.
Hadley Bros.-Uhl Company, St. Louis, Mo. Rubber patches for automobile-tube punctures, &c. No. 147,616; Oct. 25.

Hagedorn, Edward G., New York, N. Y. Silks, artificial silk, and certain mixtures in the piece. No. 147,617; Oct. 25.
Hall, Walter T., & Company, Ottumwa, Iowa. Candy. No. 147,618; Oct. 25.
Hamacher, Edna W., Hannibal, Mo. Drying-machines for drying grains, seeds, peas, crushed rock, &c. No. 147,619; Oct. 25.
Harris, Albert, New York, N. Y. Ladies' and misses' dresses. No. 147,623; Oct. 25.
Heimerdinger, William G., Louisville, Ky. Sheep, mule, grass, hedge, and pruning shears. No. 147,620; Oct. 25.
Heintz, Merkle & Company, Philadelphia, Pa. Mayonnaise, mince-meat, salted peanuts. No. 147,621; Oct. 25.
Helpy Selfy, Dallas, Tex. Certain articles of food. No. 147,622; Oct. 25.
Hoegee, Wm. H., Inc., Los Angeles, Calif. Fishing-lines. No. 147,727; Oct. 25.
Holdsem Company. (See Lippmann, Leopold J., assignor.)
Holt, E. M., Plaid Mills, Inc., Burlington, N. C. Cotton goods in the piece. No. 147,623; Oct. 25.
International Coal Products Corporation, Bristol, Va., and New York, N. Y. Briquets made from coal. Nos. 147,624–5; Oct. 25.
Johnston, Robert A., Company, Milwaukee, Wis. Candy. No. 147,626; Oct. 25.
Kenyon, Thomas N., Minneapolis, Minn. Catarrhal jelly. No. 147,738; Oct. 25.
Kirshner, Nathaniel M., Los Angeles, Calif. Finger-rings. No. 147,627; Oct. 25.
Krohn-Fechheimer Co., The, Cincinnati, Ohio. Ladies' and misses' leather shoes. No. 147,628; Oct. 25.
La Societe Anonyme des Anciens Etablissements Bernard. Verrerie de Bagneaux, Bagneaux-sur-Loring, France. Raw glass used for spectacles and optical instruments. Nos. 147,629–30; Oct. 25.
Lincoln, Edward K., New York, N. Y. Auto dri-mist, cedar floor-polish, duck-back wax. No. 147,631; Oct. 25.
Lippmann, Leopold J., assignor to Holdsem Company, Inc., New York, N. Y. Adhesive vermin-exterminator. No. 147,632; Oct. 25.
Liverpool Adhesive Paste Co. Ltd., Liverpool, England. Paste. No. 147,633; Oct. 25.
Logee, E. L., Co., Providence, R. I. Certain jewelry. No. 147,634; Oct. 25.
Lord & Brown, Des Moines, Iowa. Composition rubber cement. No. 147,635; Oct. 25.
McGraw-Hill Company, Inc., New York, N. Y. Periodical publication. No. 147,636; Oct. 25.
Magenheim, Jack, Binghamton, N. Y. Polishes and dressings for leather boots and shoes. No. 147,637; Oct. 25.
Major, Belle M., Detroit, Mich. Rubber patching-stock and transparent cement. No. 147,638; Oct. 25.
Marshall Field & Company, Chicago, Ill. Bedspreads. No. 147,729; Oct. 25.
Matthews, Frederic P., London, England. Bun-tins, aluminum saucepans and stew-pans. No. 147,639; Oct. 25.
Maurice Company, The, Cleveland, Ohio. Prepared chocolate. No. 147,640; Oct. 25.
Michelsohn, Israel, New York, N. Y. Women's and misses' hose. No. 147,641; Oct. 25.
Miller Rubber Company, The, Akron, Ohio. Belts for personal wear. No. 147,642; Oct. 25.
Mitchell and Smith, Inc., Boston, Mass. Leather link belts, disks, packings, and clutch-leathers, &c. No. 147,643; Oct. 25.
Mohr Food Products, Inc., New York, N. Y. Vegetable extract to be used as base and flavoring for foods. No. 147,644; Oct. 25.
Monarch Engineering Company, The, Dayton, Ohio. Pneumatic pressure systems for pumping, storing, and supplying water or other fluids. No. 147,645; Oct. 25.
Monite Water Proof Glue Company, Minneapolis, Minn. Glue. No. 147,646; Oct. 25.
Morin, Charles J., Waterville, Me. Cough-syrup. No. 147,647; Oct. 25.
Mundon, Charles A., Parsons, Kans. Preservative and polish for automobile-bodies, pianos, &c. No. 147,648; Oct. 25.
Munro, Duncan C., Windsor, Ontario, Canada. Wrenches. No. 147,649; Oct. 25.
Nancy-Pain Frocks, Forest Hills, N. Y. Women's dresses, coats, suits, and frocks. No. 147,650; Oct. 25.
National Decorative Company, The, Camden, N. J. Window valances, panels, and drape-shades made up of cotton goods. No. 147,651; Oct. 25.
National Drug Stores Corporation, New York, N. Y. Certain medicinal, chemical, and pharmaceutical preparations. No. 147,652; Oct. 25.
National Hair Goods Co., Chicago, Ill. Wigs. No. 147,653; Oct. 25.
National Lead Company of California, San Francisco, Calif. White lead and lead oxids. No. 147,654; Oct. 25.
National Stamping & Electric Works, Chicago, Ill. Gasolene and kerosene lanterns, portable and hanging lamps, and system-lamps. No. 147,730; Oct. 25.
Nebraska Consolidated Mills Company, The, Grand Island and Hastings, Nebr. Wheat-flour. No. 147,655; Oct. 25.
Neuss, Hesslein & Co., Inc., New York, N. Y. Woven cotton piece goods. No. 147,656; Oct. 25.
New England Confectionery Company, Boston, Mass. Candy. No. 147,657; Oct. 25.
North Billerica Co., North Billerica, Mass. Certain piece goods and blankets. No. 147,658; Oct. 25.
Northwestern Coat Company. (See Stein, John J., assignor.)
Oberbeck, Arthur W., Chicago, Ill. Scenery. No. 147,659; Oct. 25.
O'Connor Candy Co., Darlington, Wis. Candy. No. 147,660; Oct. 25.
Ohio Expert Auto Radiator Company, Cincinnati, Ohio. Automobile-radiators. No. 147,661; Oct. 25.
Oliver Oil-Gas Burner & Machine Co., St. Louis, Mo., and San Francisco, Calif. Cleansing material for hands and skin. No. 147,663; Oct. 25.
Oliver Oil-Gas Burner & Machine Co., St. Louis, Mo. Oil and gas burners. No. 147,662; Oct. 25.
Omaha Alfalfa Milling Company, Omaha, Nebr. Horse feed. No. 147,731; Oct. 25.
Oregon Nursery Company, Orenco, Oreg. Prune-trees. No. 147,664; Oct. 25.
Patterson, John, Junr., Aldershot, England. Braces for wear, sock and stocking suspenders, garters, hosiery. No. 147,665; Oct. 25.
Pearson Brothers, London, England. Waterproof coats. No. 147,666; Oct. 25.
Pennewell, Charles F., San Francisco, Calif. Soil-bacteria. No. 147,667; Oct. 25.
Perfection Heater & Manufacturing Co., Cleveland, Ohio. Exhaust-gas motor-car heaters. No. 147,732; Oct. 25.
Pierce-Arrow Motor Car Company, The, Buffalo, N. Y. Bodies for automobiles and parts thereof. No. 147,669; Oct. 25.
Pierce-Arrow Motor Car Company, The, Buffalo, N. Y. Frames for automotive vehicles and parts thereof. No. 147,668; Oct. 25.
Power, T. C., Company, The, Helena, Mont. Certain farm implements. No. 147,670; Oct. 25.
Primalt Products Company, Chicago, Ill. Ginger-ale. No. 147,671; Oct. 25.
Procter and Gamble Company, The, Cincinnati, Ohio. Cooking-fats. No. 147,672; Oct. 25.
Raven, W., & Co. Ltd., Leicester, England. Dyed hosiery. No. 147,673; Oct. 25.
Raymond Granite Company, San Francisco and Los Angeles, Calif. Construction materials. No. 147,674; Oct. 25.
Remington Motors, Inc., New York, N. Y. Automobiles. No. 147,675; Oct. 25.
Republic Belting Company, Inc., Baltimore, Md. Fabric belting. No. 147,676; Oct. 25.
Robertson, Bolling L., Manassas, Va. Stock feeds. No. 147,677; Oct. 25.
Rogers & Madison Trunk Corporation, Petersburg, Va. Trunks, suitcases, and traveling-bags. No. 147,733; Oct. 25.
Rothchild, Louis, Philadelphia, Pa. Spare-tire carriers. No. 147,678; Oct. 25.
S. S. P. Manufacturing Company, Chicago, Ill. Water gages and columns, certain gage-glass specialties. No. 147,691; Oct. 25.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Certain articles of clothing for women, children, and infants. No. 147,679; Oct. 25.
Sametag & Hilder Bros., New York, N. Y. Hair-nets. No. 147,680; Oct. 25.
Schoesing-Koenigsmark Milling Co., Valmeyer, Ill. Self-rising wheat-flour. No. 147,681; Oct. 25.
Schwarz, John A., Inc., New York and Brooklyn, N. Y. Mattresses. No. 147,682; Oct. 25.
Scullin Steel Co., St. Louis, Mo. Certain railway-car accessories. No. 147,683; Oct. 25.
Seaboard Refractories Company, Valentines, Raritan township, N. J. Refracted bricks of standard and special shapes. No. 147,734; Oct. 25.
Sears, Roebuck and Co., Chicago, Ill. Diaper-cloth. No. 147,684; Oct. 25.
Sears, Roebuck and Company, New York, N. Y., and Chicago, Ill. Phonograph-cabinets and wooden stands and supports for same. No. 147,685; Oct. 25.
Sexauer, Geo. P., & Son, Brookings, S. D. Seeds for food purposes and poultry feeds. No. 147,735; Oct. 25.
Shapleigh Hardware Company, St. Louis, Mo. Shovels and spades. No. 147,687; Oct. 25.
Sherman, Charles H., North Attleboro, Mass. Slides for watchguards, sautoirs, &c. No. 147,688; Oct. 25.
Shuell, Frank W., Detroit, Mich. Gas water-heaters. No. 147,736; Oct. 25.
Smith-Monark Company, The, Cleveland, Ohio. Automobile tow-lines. No. 147,689; Oct. 25.
Smith, Roland L., Belmont, Mass. Certain surfacing and finishing composition. No. 147,690; Oct. 25.
Sonora, Inc., New York, N. Y. Talking-machines, phonographs, talking-machine needles, &c. No. 147,737; Oct. 25.
Stanley Works, The, New Britain, Conn. Certain tools. No. 147,692; Oct. 25.
Stanley Works, The, New Britain, Conn. Planes. No. 147,693; Oct. 25.
Steel, Herman D., Philadelphia, Pa. Meter, watch, and industrial jewels and synthetic and natural cut stones. No. 147,694; Oct. 25.
Steelduct Company, The, Youngstown, Ohio. Pipes or electric conduits to carry electric wires. No. 147,695; Oct. 25.

Stein, A., & Company, Chicago, Ill. Garters. No. 147,696; Oct. 25.
Stein, John J., Chicago, Ill., assignee to Northwestern Coat Company, Incorporated. Certain articles of clothing for physicians, dentists, their assistants, and patients. No. 147,697; Oct. 25.
Stevenson Gear Company, Indianapolis, Ind. Machines for forming polygonal articles, gears, &c., and gears and other machine elements. No. 147,698; Oct. 25.
Stix, Louis, Co., The, Cincinnati, Ohio. Hosiery. No. 147,699; Oct. 25.
Sudan Import and Export Company, Cairo, Egypt, and Khartoum, Sudan. Gum-arabic, mother-of-pearl shells, ivory, and dari-seed. No. 147,700; Oct. 25.
Svenska Aktiebolaget Nobel-Diesel, Nynäshamn, Sweden. Internal-combustion engines, and certain accessories therefor. No. 147,701; Oct. 25.
Sweet Orchard Company, Chicago, Ill. Non-alcoholic beverages and syrups for flavoring same made from fruits. No. 147,702; Oct. 25.
Taunton Pearl Works, Inc., Taunton, Mass. Tie-clasps, collar holders and buttons, and pins. No. 147,703; Oct. 25.
Terrell Machine Company, The, Charlotte, N. C. Bobbin-cleaning machines. No. 147,704; Oct. 25.
Timken-Detroit Axle Company, The, Detroit, Mich. Gears for transmitting power for automotive and other purposes. No. 147,705; Oct. 25.
Tribble Cordage Mills Inc., Boston, Mass. Clothesline. No. 147,738; Oct. 25.
Union Mills, Inc., New York, N. Y. Knitted underwear for women and children. No. 147,706; Oct. 25.
Union Twist Drill Company, Athol and Mansfield, Mass. Collets, thread-cutting dies, and guides therefor, die holders, &c. No. 147,707; Oct. 25.
United States and South America Corporation, The, New York, N. Y. Certain canned food. No. 147,708; Oct. 25.
United States Playing Card Company, The, East Norwood, Cincinnati, Ohio. Playing-cards. Nos. 147,739–44; Oct. 25.
Universal Milking Machine Company, The, Columbus, Ohio. Milking-machines and parts and appurtenances thereof. No. 147,709; Oct. 25.
Victory Bag & Paper Co., Chicago, Ill. Paper bags. No. 147,711; Oct. 25.
Wahl Company, The, Chicago, Ill. Lead-pencils. No. 147,712; Oct. 25.
Waldo, E. M. & F., New York, N. Y. Certain chemical compound. No. 147,713; Oct. 25.
Warneke & Hay Co., Inc., New York, N. Y. Articles of jewelry—namely, wedding and engagement rings. No. 147,714; Oct. 25.
Wearwove Fabrics Corporation, New York, N. Y. Hosiery. No. 147,715; Oct. 25.
Welchsel Barber Supply Co., Dallas, Tex. Certain toilet preparations. No. 147,716; Oct. 25.
Weil, F. A., Company, East Savannah, Ga. Shoes. No. 147,717; Oct. 25.
Welsbach Company, Gloucester, N. J. Pyrophoric igniting devices. No. 147,718; Oct. 25.
Welters, Edward A., Jacksonville, Fla. Tooth-powders. No. 147,719; Oct. 25.
Will & Baumer Candle Co., Inc., Syracuse, N. Y. Candles. No. 147,745; Oct. 25.
Woodward & Cochey, Inc., Lynn, Mass. Leather substitute. No. 147,720; Oct. 26.
Wyman, Partridge & Co., Minneapolis, Minn. Cotton piece goods. No. 147,721; Oct. 25.
Wyman, Partridge & Co., Minneapolis, Minn. Woolen blankets. No. 147,222; Oct. 25.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Alperin, B., Red Bank, N. J. "Our National Mayonnaise." (For Mayonnaise.) No. 23,508; Oct. 25.
Amend, Fred W., Co., Chicago, Ill. "Marshmallow Cream Bananas." (For Confectionery-Containers.) No. 23,509; Oct. 25.
Appelbee & Neuman, Inc., New York, N. Y. "Rivet Shank Buttons." (For Buttons.) No. 23,510; Oct. 25.
Barbaneli, Fabian, Los Angeles, Calif. "Barbaneli Face Powder." (For Face-Powder.) No. 23,520; Oct. 25.
Bardos, Coleman, Jr., New York, N. Y. "Liquor Adrenalini Hydrochloricus." (For a Remedy for Overcoming Local Congestions, to Check Local Hemorrhages, as a General Circulatory Stimulant, and for the Relief of Asthmatic Paroxysms.) No. 23,521; Oct. 25.
Bratton, Elizabeth, Columbus, Ohio. "Teh U Blocks. (For Educational Blocks.) No. 23,522; Oct. 25.
Brigantl, Croce, New York, N. Y. "Brigantl's Great Blood Purifier." (For a Tonic for the Blood.) No. 23,523; Oct. 25.
Camp, Mrs. Kathryn, Indianapolis, Ind. "Presto Metal Polish." (For Bottled Metal-Polish.) No. 23,524; Oct. 25.
Carque Pure Food Company, Los Angeles, Calif. "Prunola." (For Containers or Cartons Containing Prunola, a Preparation of Sun-Dried Olives and Prunes.) No. 23,525; Oct. 25.
Christian Peper Tobacco Co., St. Louis, Mo. "E Twist." (For Tobacco.) No. 23,526; Oct. 25.
Cloverleaf Creameries, Inc. (See Menasha Printing and Carton Company, assignors.)
Colonial Biscuit Company, The, Philadelphia, Pa. "Colonial Cake." (For Cake.) Nos. 23,527–8; Oct. 25.
Concrete Products Co., Trenton, N. J. "C. P. Co's. Concrete Products Enduring as The Pyramids." (For Specimens of Concrete Bricks, Concrete Blocks, and other Concrete Building Materials.) No. 23,529; Oct. 25.
Corcoran, Harry, Chicago, Ill. "Home Maid." (For Cans of Liquid Malt Extract.) No. 23,530; Oct. 25.
Curtis & Co. Mfg. Co., St. Louis, Mo. "Curtis St. Louis." (For Advertising Purposes for Machinery and Equipment.) No. 23,531; Oct. 25.
Draper, Geo. H., Jr., Milford, Del. "Can Dandy Brand Sifted Early June Peas." (For Cans Containing Early June Peas.) No. 23,532; Oct. 25.
Empire Food Products Company, New York, N. Y. "Peacock Instant Coffee." (For Powdered Coffee.) No. 23,533; Oct. 25.
Fredrick, William, Monett, Mo. "La Fredrick." (For Cigars.) No. 23,534; Oct. 25.
Freiberg & Gorman, Brooklyn, N. Y. "Grand Aroma." (For Cigars.) No. 23,535; Oct. 25.
Gillet, Fred C., St. Paul, Minn. "C-O-D." (For Packages Containing Toasted Cereal.) No. 23,536; Oct. 25.
Grady Mfg. Co., The. "Grada (Gradea)." (For Tile and Porcelain Cleaner.) No. 23,537; Oct. 25.
Harriet Hubbard Ayer, New York, N. Y. "Almond Honey Cucumber Lotion." (For Healing and Soothing Lotion for Use After Shaving, Also Upon Emollients for Whitening and Softening the Face, Neck, and Arms, and for Relieving Roughness, Chafing, Irritations, Windburn, Sunburn, and Chapped Skin or Lips.) No. 23,511; Oct. 25.
Harriet Hubbard Ayer, New York, N. Y. "Rouge Compact 400." (For Rouge in the Form of Compacts.) No. 23,512; Oct. 25.
Harriet Hubbard Ayer, New York, N. Y. "Eau de Beauté." (Water of Beauty.) (For Face-Astringents and Skin-Tighteners.) No. 23,513; Oct. 25.
Harriet Hubbard Ayer, New York, N. Y. "Rouge Compact 200." (For Rouge in the Form of Compacts.) No. 23,514; Oct. 25.
Harriet Hubbard Ayer, New York, N. Y. "Rouge Compact 300." (For Rouge in the Form of Compacts.) No. 23,515; Oct. 25.
Harriet Hubbard Ayer, New York, N. Y. "Rouge Compact 500." (For Rouge in the Form of Compact.) No. 23,516; Oct. 25.
Harriet Hubbard Ayer, New York, N. Y. "Rouge Compact 600." (For Rouge in the Form of Compacts.) No. 23,517; Oct. 25.
Harriet Hubbard Ayer, New York, N. Y. "Harriet Hubbard Ayer." (For Toilet Cream, Toilet Powder, Rouges, Lotions, Enamels, Skin and Tissue Builders, Depilatories, Skin-Astringents, and Many other Toilet Preparations.) No. 23,518; Oct. 25.
Henschel, C. B., Manufacturing Company, Milwaukee, Wis. Sonora." (For Cigars.) No. 23,538; Oct. 25.
Hickey, Delmer Brooke, Chanute, Kans. "D. B. Hickey's Healing Liquid." (For Containers for a Remedy for Cuts and Sores of All Kinds.) No. 23,539; Oct. 25.
High-Test Malt Extract Co., Chicago, Ill. "High Test No-Boil Malt Extract." (For Cans Containing Liquid Malt Extract.) No. 23,540; Oct. 25.
Hill-Weppner Company, The. (See Menasha Printing and Carton Company, assignors.)
Hopper, B., Kalamazoo, Mich. "Vista Linen." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) No. 23,541; Oct. 25.
Hopper, B., Kalamazoo, Mich. "French Poplin." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) No. 23,542; Oct 25
Hopper, B, Kalamazoo, Mich. "Winona Linen." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) No. 23,543; Oct. 25.
Hopper, B., Kalamazoo, Mich. "Hopper's True Linen." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) No. 23,544; Oct. 25.
Hopper, B., Kalamazoo, Mich. "Hopper's True Linen Pastel Gray." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) No. 23,545; Oct. 25.
Hopper, B., Kalamazoo, Mich. "French Kid Plate Marked." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) No. 23,546; Oct. 25.
Hunter, (Miss) Emma D., Clinton, N. Y. "Miss Hunter's Fruit Nut Chocolates." (For Candy.) No. 23,547; Oct. 25.
Hygeia Ice Cream Company. (See Menasha Printing and Carton Company, assignors.)
Jeone, H., Co., Los Angeles Calif. "Look for the Gingham Package." (For Biscuit-Flour.) No. 23,548; Oct. 25.
Kent Storage Company, Grand Rapids, Mich. "Blue Grass Evaporated Milk." (For Containers for Condensed Milk.) No. 23,550; Oct. 25.
Knickerbocker Chocolate Company, West Hoboken, N. J., and New York, N. Y. "Vitamine Chocolate." (For Sweet Chocolate.) No. 23,551; Oct. 25.

Knickerbocker Chocolate Company, West Hoboken, N. J., and New York, N. Y. "Vitacoco." (For Cocoa-Powder.) No. 23,552; Oct. 25.
Kolb, George O., Hartford, Conn. "Walnut Crullers." (For Crullers.) Oct. 25.
Krank, Alfred J., St. Paul, Minn. "Hair-Root-Oil." (For a Hair-Dressing and Shampoo.) No. 23,554; Oct. 25.
Linton, Rocco S., Joplin, Mo. "Mule." (For Cigarettes.) No. 23,555; Oct. 25.
Lipschulch, George W., Chicago Ill. "Mousel Sham Pagne." (For Non-Cereal, Maltless, Non-Alcoholic Beverage Sold as a Soft Drink.) No. 23,556; Oct. 25.
Loewus, G., & Co., Jersey City, N. J. "Redibak." (For Malt Extract.) No. 23,557; Oct. 25.
Malsone, Angelo, & Sons, West New York, N. J. "All Over the World Brand, Malsone's." (For Confectionery.) No. 23,558; Oct. 25.
Mead Johnson & Co., Evansville, Ind. "Dextro Malto No. 2." (For Mead's Dextri-Maltose.) No. 23,549; Oct. 25.
Menasha Printing and Carton Company, Menasha, Wis., assignor to H. L. Neuman Company, York, Pa. "Neuman's Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,559; Oct. 25.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Cloverleaf Creameries, Inc., Huntington, Ind. "Wabash Valley." (For Cartons Containing Butter.) No. 23,560; Oct. 25.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Hygeia Ice Cream Company, Elmira, N. Y. "Cold-Kist." (For Cartons Containing Ice-Cream.) No. 23,561; Oct. 25.
Menasha Printing and Carton Company, Menasha, assignor to Trapp Bros. Dairy Company, Milwaukee, Wis. "Trapp's Fancy Creamery Butter." (For Cartons Containing Butter.) No. 23,562; Oct. 25.
Menasha Printing and Carton Company, Menasha, Wis., assignor to The Hill-Weppner Company, Cleveland, Ohio. "Pride of Ohio." (For Cartons Containing Butter.) No. 23 563; Oct. 25.
Milwaukee Paper Box Company, Milwaukee, Wis. "Assorted Bitter Sweet Chocolates." (For Boxes Containing Assorted Bitter-Sweet Chocolates.) No. 23,564; Oct. 25.
Milwaukee Paper Box Company, Milwaukee, Wis. "Candies." (For Boxes Containing Candy.) No. 23,565; Oct. 25.
Milwaukee Paper Box Company, Milwaukee, Wis. "Circe Chocolates." (For Boxes Containing Chocolate Candy.) No. 23,566; Oct. 25.
Morrison, Joseph P., Mount Carmel, Pa. "Dr. Morrison's Mouth Cleanser." (For a Preparation for Cleansing the Mouth and Teeth.) No. 23,567; Oct. 25.
Neuman, H. L., Company. (See Menasha Printing and Carton Company, assignors.)
Nevin, Geo W., Cincinnati, Ohio. "T. N. O. Metal Polish." (For Metal-Polish for Silver, Brass, Copper, and Nickel.) No. 23,568; Oct. 25.
Red Top Malt Extract Co., Cincinnati, Ohio. "Barbarossa." (For Tin-Cans Containing Malt and Hop Extract.) No. 23,569; Oct. 25.
Reus Bros. Co., The, Baltimore, Md. "No Smoking." (For Advertising Purposes for Piston-Rings.) No. 23,570; Oct. 25.
Royal Worcester Corset Co., Worcester, Mass. "Supreme Quality Bon Ton Corsets, the Most Fashionable and Perfect Fitting Corsets." (For Boxes in Which Corsets are Packed.) No. 23,571; Oct. 25.
Sanger Bros. Inc., New York, N. Y., and Dallas, Tex. "Gold Standard." (For Cotton Piece Goods.) No. 23,572; Oct. 25.
Schott Brothers, New York, N. Y. "Right House Right Goods Right Prices." (For Hosiery, Underwear, and Knit Goods.) No. 23,573; Oct. 25.
Sibley-Almy Co., Inc., Olean N. Y. "Café de Luxe." (For Coffee.) No. 23,574; Oct. 25.
Sibley-Almy Co., Inc., Olean, N. Y. "Golden Cup." (For Coffee.) No. 23,575; Oct. 25.
Small, L. K., Company, Los Angeles, Calif. "Buddy." (For Lemons.) No. 23,576; Oct. 25.
Sroufe, Jesse, Cincinnati, Ohio. "Joy Blox for the Kiddies." (For Nested Toy Blocks.) No. 23,577; Oct. 25.
Trapp Bros. Dairy Company. (See Menasha Printing and Carton Company, assignors.)
Waller, Herman S., Chicago, Ill. "Waller's Relief for Headache and Neuralgia." (For Headache Powders and Tablets.) No. 23,578; Oct. 25.
Walters, Henry V., Oceanport, N. J. "Some !!!" (For Cake.) No. 23,579; Oct. 25.
Walters, H. V., Long Branch, N. J. "First-Prize." (For Bread.) No. 23,580; Oct. 25.
Wander Company, The, Chicago, Ill. "Ovaltine." (For Tins Containing Ovaltine.) No. 23,581; Oct. 25.
White Mule, Inc., Carbondale, Ill. "White Mule Tire-Patch." (For Can Containing Automobile-Tire Patch.) No. 23,583; Oct. 25.
Whitehead Hosiery Mills, Inc., Burlington, N. C. "Seven Point." (For Hosiery.) No. 23,582; Oct. 25.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Asbestos Roofing Company, Cleveland, Ohio. "Improved Asphalt Slab." (For Advertising Purposes for Asphalt-Shingle Roofs.) No. 5,802; Oct. 25.
Breakfast Brownies Company, Helena, Mont., and Minneapolis, Minn. "Jumped Into Favor Because of Its Flavor." (For Advertising Purposes for Breakfast Food.) No. 5,803; Oct. 25.
Grennan Cake Corporation, Chicago, Ill. "Grennan's More Than 50 Varieties." (For Advertising Purposes for Cake.) No. 5,804; Oct. 25.
Hartmann Trunk Company, Racine, Wis. "A New Travel Creation." (For Advertising Purposes for Wardrobe-Trunks.) No. 5,805; Oct. 25.
Hartmann Trunk Company, Racine, Wis. "Presenting Castle-Grande." (For Advertising Purposes for Wardrobe-Trunks.) No. 5,806; Oct. 25.
Haynes Automobile Company, The, Kokomo, Ind. "Haynes Character Cars." (For Advertising Purposes for Automobiles.) No. 5,807; Oct. 25.
Heins, H. J., Co., Pittsburgh, Pa. "Every Drop Awakens Flavor Heins Vinegars Here's Zest to Lagging Appetites." (For Advertising Purposes for Heins Vinegars.) No. 5,808; Oct. 25.
Heins, H. J., Co., Pittsburgh, Pa. "Every Drop Awakens Flavor Heins Vinegars Fresh Vegetables and Salads." (For Advertising Purposes for Heins Vinegars.) No. 5,809; Oct. 25.
Horton, F. T., Co., Inc., Hoboken, N. J. "Vanderbilt's Bird Song Restorer." (For a Bird Tonic and Song-Restorer.) No. 5,810; Oct. 25.
Kroehler Mfg. Company, Naperville, Ill. "An Added Room—Subtracted Rent." (For Advertising Purposes for Bed-Davenports.) No. 5,812; Oct. 25.
New York Mackintosh Clothing Co., New York, N. Y. "Dri-Girl." (For Advertising Purposes for Waterproof Outer Garments.) No. 5,813; Oct. 25.
New York Mackintosh Clothing Co., New York, N. Y. "DriGirl." (For Advertising Purposes for Waterproof Outer Garments.) No. 5,814; Oct. 25.
New York Mackintosh Clothing Co., New York, N. Y. "Cape-Girl." (For Advertising Purposes for Waterproof Outer Garments.) No. 5,815; Oct. 25.
Palmolive Company, The, Milwaukee, Wis. "Olive Oil Makes Glossy Hair." (For Advertising Purposes for Shampoo.) No. 5,816; Oct. 25.
Palmolive Company, The, Milwaukee, Wis. "The Secret of Charm Never Changes." (For Advertising Purposes for Palmolive Soap.) No. 5,817; Oct. 25.
Palmolive Company, The, Milwaukee, Wis. "The Girl Women Envy and Men Admire." (For Advertising Purposes for Palmolive Soap.) No. 5,818; Oct. 25.
Rice, Jerome B., Seed Co., Cambridge, N. Y. "Extra Early Osage Muskmelon." (For Advertising Purposes for Muskmelon.) No. 5,819; Oct. 25.
Rosenblatt, A., Soap & Co., Philadelphia, Pa. "Miss Quality." (For Advertising Purposes for Children's Dresses.) No. 5,820; Oct. 25.
United Fuel & Supply Company, Detroit, Mich. "United Fuel & Supply Co. Building Supplies by Truck Train or Boat." (For Advertising Purposes for Building Supplies.) No. 5,821; Oct. 25.
Vaycide Chemical Corp., Birmingham, Ala. "Stop Little Chicks from Dying." (For Advertising Purposes for Ru-Chol, a Poultry Medicine for the Treatment of White Diarrhoea, Cholera, Roup, Canker, Colds, and Limberneck.) No. 5,822; Oct. 25.
Vernor, James Company, Detroit, Mich. "Say:—'Vernor's'—A Case!" (For Advertising Purposes for Ginger-Ale and Ginger-Ale Extract.) No. 5,811; Oct. 25.
Weiss & Klau Company, The, New York, N. Y. "Unexcelled Window Shades." (For Advertising Purposes for Window-Shades.) No. 5,823; Oct. 25.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Alpina Cheese Co., Burgdorf, Switzerland. Swiss cheese. No. 137,694; Oct. 25.
Amboy Products Co., Inc., Chicago, Ill. Brooms. No. 140,088; Oct. 25.
American Bronze Corporation, Berwyn, Pa. Bushings and bearings. No. 147,178; Oct. 25.
American Hominy Company, Indianapolis, Ind., and Decatur, Ill. Wheat-flour. No. 120,806; Oct. 25.
Arrow Company, The, Detroit, Mich. Inhalers used in administering medicines. No. 146,477; Oct. 25.
Au-To Compressor Co., The, Wilmington, Ohio. Fluid-compressor outfits, wrenches, pliers, &c. No. 146,061; Oct. 25.
Baboin, Aimé, & Cie., Lyon, France. Silk piece goods. No. 131,373; Oct. 25.
Baker-Waechter Company, The, Cleveland, Ohio. Cutting-tools for metal-working machines. No. 132,344; Oct. 25.
Bakrow, Richard D., & Son, Louisville, Ky. Toy balloons. No. 143,153; Oct. 25.
Barrager, Frank J., Los Angeles, Calif. Celery bread. No. 147,910; Oct. 25.
Barriger, Robert J., Birmingham, Ala. Cleaner for clothing, furniture, floor, &c. No. 151,534; Oct. 25.
Berkeley Company, Providence, R. I. Cotton madras in the piece. No. 150,178; Oct. 25.
Bethlehem Steel Company, Bethlehem, Pa. Sheet-steel. No. 148,196; Oct. 25.
Bethlehem Steel Company, Bethlehem, Pa. Steel rails. No. 148,120; Oct. 25.
Black Hawk Tire & Rubber Company, Des Moines, Iowa. Rubber and rubber and fabric tires and inner tubes. No. 141,747; Oct. 25.
Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. No. 152,948; Oct. 25.
Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. No. 152,979; Oct. 25.
Bon I. Look Stores Company, The, Denver, Colo. Canned goods, dried fruits, and vegetables, coffee, tea, &c. No. 135,229; Oct. 25.
Bremer, O. A., Co., Burlington, Iowa. Babbitting-jigs for gasolene-engine connecting-rods, &c. No. 132,162; Oct. 25.
Bunte Brothers, Chicago, Ill. Candy. No. 149,675; Oct. 25.
Butcher, W. & S., Limited, Sheffield, England. Razors, scissors, knives, files, &c. No. 135,128; Oct. 25.
Carpenter Steel Company, The, Reading, Pa. Alloy steels in bars, &c. No. 134,582; Oct. 25.
Carpenter Steel Company, The, Reading, Pa. Tool-steels in bars, &c. Nos. 134,568–70; Oct. 25.
Cereal Products Co., Manitowoc, Wis. Breakfast cereal, malt breakfast food, hominy, &c. No. 147,088; Oct. 25.
Champion Game Company, Chicago, Ill. Parlor baseball game. No. 150,959; Oct. 25.
Charpillos, Alexis, Chatelaine, Switzerland. Tire-valves. No. 146,526; Oct. 25.
Cherokee Fuel Company, Kansas City, Mo. Coal. No. 148,644; Oct. 25.
Chocolats fins Zurcher S. A., Clarens-Montreux, Switzerland. Chocolate, cocoa, &c. No. 140,164; Oct. 25.
Chicago Pneumatic Tool Company, New York, N. Y. Pneumatic chipping and riveting hammers and drills and repair parts therefor. No. 146,529; Oct. 25.
Citizens' Wholesale Supply Company, Columbus, Ohio. Bay-leaves, beans, flour, prunes, &c. No. 147,156; Oct. 25.
City Mills Company, Columbus, Ga. Wheat-flour. No. 128,656; Oct. 25.
Cobwell Corporation, Cleveland, Ohio. Sanitation process and organic-waste-reduction system and parts thereof. No. 146,716; Oct. 25.
Collins Flour Mills, Pendleton, Oreg. Wheat-flour. No. 149,387; Oct. 25.
Collins Flour Mills, Pendleton, Oreg. Wheat-flour. Nos. 149,389–90; Oct. 25.
Conrad, Charles F., New York, N. Y. Matches. No. 145,153; Oct. 25.
Cooke, Frank V., Detroit, Mich. Vehicle-springs. No. 144,017; Oct. 25.
Cooper Medicine Company, The, Dayton, Ohio. Laxative cold compound. No. 150,849; Oct. 25.
Cosin, Joseph J., New York, N. Y. Powder-puffs. No. 146,370; Oct. 25.
Cosin, Joseph J., New York, N. Y. Powder-puffs. No. 146,374; Oct. 25.
Covell, William J., San Francisco, Calif. Venereal syringe. No. 138,809; Oct. 25.
Darwin & Miller, Inc., New York, N. Y. Metal tools for cutting and forming. No. 118,434; Oct. 25.
Davis, Loyal E., Seattle, Wash. Waterproof dressing for automobile-tops, leather, and textiles. No. 138,200; Oct. 25.
Decatur Brewing Co., Decatur, Ill. Malt extract. No. 120,869; Oct. 25.
Donnelly, Hugh A., St. Louis, Mo. Piece goods—namely, cambrics. No. 148,720; Oct. 25.
Dunn, John, Son and Co., New York, N. Y. Filters and refrigerators. No. 140,874; Oct. 25.
Duplan Silk Corporation, New York, N. Y. Broad-silk piece goods. Nos. 152,915–18; Oct. 25.
Eberly, David A., Alameda, Calif. Castile-soap. No. 135,141; Oct. 25.
Edenfield, William N., Atlanta, Ga. Alkaline antiseptics. No. 150,961; Oct. 25.
Emery, James H., Inwood Park, N. Y. Artificial fruit. No. 145,744; Oct. 25.
Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. No. 151,789; Oct. 25.
Fenton, Henry D., Coldwater, N. Y. Salve for treatment of wounded, sore, or galled horses. No. 148,796; Oct. 25.
Finkelstein & Sons, Inc., New York, N. Y. Woolen, cotton, and silk fabrics, velvets, velveteens. No. 140,433; Oct. 25.
Folger, J. A., & Co., San Francisco, Calif. Baking-powder, cream of tartar, soda. No. 150,665; Oct. 25.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. Nos. 152,610–15; Oct. 25.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. Nos. 152,617–19; Oct. 25.
Gilman Bros. Inc., Boston, Mass. Hair-nets and handkerchiefs. No. 149,226; Oct. 25.
Globe Soap Company, The, Cincinnati, Ohio. Soap. No. 152,678; Oct. 25.
Grale Packing Company, The, Roselle, N. J. Laxative food. No. 136,838; Oct. 25.
Haloid Company, The, Rochester, N. Y. Photographic developing-paper. No. 146,910; Oct. 25.
Hamilton & Hansell, New York, N. Y. Nautical aperdometers, logs, and distance-recorders. No. 146,766; Oct. 25.
Hayes Duster & Brush Co., New York, N. Y. Feather dusters. No. 148,887; Oct. 25.
Hoffa, Frederick, New York, N. Y. Optical lenses. No. 148,886; Oct. 25.
Hogan, George F., and Ruben Blundell, Brooklyn, N. Y. Preparation for coughs, croup, asthma, &c. No. 150,808; Oct. 25.
Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics. No. 152,013; Oct. 25.
Holt & Company, New York, N. Y. Wheat-flour. No. 149,547; Oct. 25.
Iron King Manufacturing Company, The, Bradner, Ohio. Oil-well pulling machinery. No. 148,026; Oct. 25.
Irvin Smith Company, Inc., Chicago, Ill. Toothbrushes. No. 149,006; Oct. 25.
Jaburg-Miller Co. Inc., New York, N. Y. Bakery machinery, equipment, and supplies. No. 129,932; Oct. 25.
Jayne, Dr. D., & Son, Philadelphia, Pa. Remedy for diseases of the respiratory organs. No. 150,899; Oct. 25.
Jelenko, J. F., & Co., New York, N. Y. Dental gold and gold solder, gold plates, &c. No. 144,725; Oct. 25.
Johnson, W. H., Union City, Tenn. Insecticide. No. 150,683; Oct. 25.
Kaempfer's Incorporated, Chicago, Ill. Mixture or combination of seeds used as a food for birds. No. 133,783; Oct. 25.
Käseexport A. G. Goldbach (Emmenthal), Goldbach, near Burgdorf, Switzerland. Cheese and cheese preserve. No. 139,804; Oct. 25.
Kelter-Fry Manufacturing Company, Inc., Lockport, N. Y. Powder-puffs. No. 140,598; Oct. 25.
Kepesh, Martin, New York, N. Y. Hair-nets. No. 151,365; Oct. 25.
Kirbarine Co., New York, N. Y. Preparation for the treatment of mange and eczema and all skin diseases, &c. No. 150,691; Oct. 25.
Kramer, H., & Co., Chicago, Ill. Metal products consisting of ferrous and non-ferrous castings. No. 146,914; Oct. 25.
La Vietes Manufacturing Co., New Haven, Conn. Windshield-cleaners. No. 143,935; Oct. 25.
Latiner, Daniel B., Philadelphia, Pa. Laxatives and purgatives. No. 151,013; Oct. 25.
Leon, Benjamin, Camden, N. J. Candy. No. 150,405; Oct. 25.
Lewis, Frank M., Jr., Baltimore, Md. Cardboard and golf games. No. 143,767; Oct. 25.
Lingenfelder, M. B., Co., Camden, N. J. Leather shoes, slippers, and moccasins. No. 143,444; Oct. 25.
Lobl Manufacturing Company, The, Middleboro, Mass. Inhalers. No. 147,789; Oct. 25.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Lorraine Manufacturing & Importing Company, Grand Haven, Mich. Hair-nets. No. 150,586; Oct. 25.
Los Angeles Soap Co., Los Angeles, Calif. Toilet soap. No. 152,263; Oct. 25.
Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. No. 152,272; Oct. 25.
Marcel, François R., Brooklyn, N. Y. Hair-dye. No. 150,908; Oct. 25.
Marcel, François R., Brooklyn, N. Y. Oily preparation for producing permanent waves in the human hair. Nos. 150,909–10; Oct. 25.
Marcus & Smith, New York, N. Y. Powder-puffs. No. 149,511; Oct. 25.
Marcus & Smith, New York, N. Y. Powder puffs. Nos. 149,514–16; Oct. 25.
Martin, W. E., Chicago, Ill. Bluing compound. No. 151,015; Oct. 25.
Mason, Davis & Company, Chicago, Ill. Weighing-scales. No. 143,328; Oct. 25.
McKesson, Elmer I., Toledo, Ohio. Respiration-testing and gas-administration apparatus. No. 147,443; Oct. 25.
Meyer, Trust Estate of Adolph C., deceased, Baltimore, Md. Medicinal preparations in liquid form. No. 144,593; Oct. 25.
Michigan Specialty Co., Lansing, Mich. Soap. No. 152,435; Oct. 25.
Morris, Mann & Reilly, Chicago, Ill. Powder-puffs. Nos. 147,506–7; Oct. 25.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. Nos. 149,289–91; Oct. 25.
Neuss, Hesslein & Co. Inc., New York, N. Y. Woven cotton piece goods. No. 152,714; Oct. 25.
New Jersey Optical Co., Newark, N. J. Spectacle and eyeglass frames and mountings. No. 147,308; Oct. 25.
New York Merchandise Company, New York, N. Y. Powder-puffs. No. 146,542; Oct. 25.
Nieto, Vicente, & Bros., Tampa, Fla., and San Francisco, Calif. Cigars. No. 135,210; Oct. 25.
Nodol Medicine Co., St. Louis, Mo. Medicinal preparation for wounds, burns, sores, colds, &c. No. 151,058; Oct. 25.
Northern Flour Mills Company, Portland, Oreg. Rolled oats, wheat flakes, farina. No. 129,339; Oct. 26.
Odri Company, Los Angeles, Calif. Preparation to reduce and deodorize perspiration. No. 150,764; Oct. 25.
Oil City Engine and Power Company, Oil City, Pa. Gas-engines, pumping-powers, stuffing-boxes, &c. No. 144,735; Oct. 25.
Organ-Iron Company, Omaha, Nebr. Medicine for colds, grippe, influenza, &c. No. 150,877; Oct. 25.
Palmer, Richard, New York, N. Y. Hot-water bottles. No. 143,778; Oct. 25.
Penslar Company, The, Detroit, Mich. Dentifrices. No. 150,703; Oct. 25.
Plantier, Dr. Ludovic, Annonay, (Ardeche,) France. Remedy for constipation, diseases of the stomach, &c. No. 150,823; Oct. 25.
Poage-Wall Milling Company, Catlettsburg, Ky. Wheat-flour. Nos. 149,769–70; Oct. 25.
Potaschnik, Jacob, New York, N. Y. Hair-tonic. No. 150,704; Oct. 25.
Railway Specialty Company, The, Atchison, Kans. Machinery, tools, &c. No. 133,751; Oct. 25.
Red Star Milling Company, The, Wichita, Kans. Wheat-flour. No. 150,026; Oct. 25.
Rennie, Robert W., Detroit, Mich. Dentifrices,—namely, tooth-paste. No. 127,332; Oct. 25.
Rider, S. A., Company, Chicago, Ill. Hair-nets. No. 152,346; Oct. 25.
Rogers & Thompson, New York, N. Y. Silk piece goods. No. 152,717; Oct. 25.
Roth, Otto, New York, N. Y. Cheese. No. 149,027; Oct. 25.
Rubber & Celluloid Products Company, Newark, N. J. Toothbrushes, hand, nail, cloth, bath, hair, and leather brushes. No. 148,838; Oct. 25.
Sands, Tollef, Tacoma, Wash. Tooth-powder. No. 150,708; Oct. 25.
Sanitant Manufacturing Company, Inc., New York, N. Y. Vaginal douches. No. 141,610; Oct. 25.
Sanitation Corporation, The, Jersey City, N. J., and New York, N. Y. Sanitation-process sewage-treatment systems and parts thereof. No. 146,854; Oct. 25.
Slaughter, Emory E., Glouster, Ohio. Eye-water. No. 149,515; Oct. 25.
Societe Francaise De Cotons a Coudre (Societe Anonyme), Paris, France. Cotton thread. No. 150,476; Oct. 25.
Societe Francaise De Cotons a Coudre (Societe Anonyme), Paris, France. Piece goods in the form of cotton lace. No. 150,478; Oct. 25.
Societe Francaise De Cotons a Coudre (Societe Anonyme), Paris, France. Piece goods in the form of cotton lace. No. 150,482; Oct. 25.
Societe Francaise De Cotons a Coudre (Societe Anonyme), Paris, France. Cotton thread. No. 150,486; Oct. 25.
Sonnenschein, Paul, New York, N. Y., and Prague, Bohemia. Hope. No. 152,330; Oct. 25.
Spencer, Elizabeth B., Wilkes-Barre, Pa. Liniment and preparation for regulating the fever of humans, colic in cattle, and for diseases arising from colds in children. No. 149,769; Oct. 25.
Sprunnel Manufacturing Company, St. Louis, Mo. Piston-rings. No. 149,017; Oct. 25.
Steinacker, Frank W., Cleveland, Ohio. Ferrous and non-ferrous alloys. No. 140,661; Oct. 25.
Stetson, George A., Boston, Mass. Bunion-protectors. No. 147,263; Oct. 25.
Stockman, Geo. H., Jr., Philadelphia, Pa. Urn-bags or woven tea-containers and connected spout-hoods. No. 138,530; Oct. 25.
Super-Art Productions, Los Angeles, Calif. Motion-pictures. No. 147,130; Oct. 25.
Taggart, E. E. H., Liberty, Mo. Animal toys. No. 152,068; Oct. 25.
Tetlow, Ida J., Philadelphia, Pa. Powder-puffs. No. 145,924; Oct. 25.
Teutsberg, Charles L., St. Louis, Mo. Poultry feed. No. 147,475; Oct. 25.
Texas Film Company, Denton, Tex., and Los Angeles, Calif. Motion-picture films. No. 151,028; Oct. 25.
Thompson, John, and Sons, Ltd., Belfast, Ireland. Oats (for food). No. 147,063; Oct. 25.
Uhlmann, Bernhard, Passaic, N. J. Medicinal compound for rheumatic ailments. No. 150,862; Oct. 25.
United Royalties Corp., New York, N. Y. Can-openers. No. 148,775; Oct. 25.
Upson Company, The, Lockport, N. Y. Metallic fasteners. No. 149,965; Oct. 25.
Urban, Stephen, Cleveland, Ohio. Eye medicine. No. 131,675; Oct. 25.
W-M Mfg. Co., Kansas City, Mo. First-aid kits. No. 145,997; Oct. 29.
Wallace & Tiernan Co., Inc., Newark, N. J. Wheat-flour. No. 147,602; Oct. 25.
Ward Baking Company, New York, N. Y. Bread. No. 148,634; Oct. 25.
Ward Baking Company, New York, N. Y. Cereal breakfast food. No. 148,636; Oct. 25.
Ward Baking Company, New York, N. Y. Cake. No. 148,661; Oct. 25.
Weber Flour Mills Corporation, Salina, Kans. Wheat-flour. No. 146,867; Oct. 25.
Wertheimer, Leo J., San Francisco, Calif. Chemical heating appliances. No. 146,099; Oct. 25.
Western Bottle Manufacturing Company, Chicago, Ill. Hair-nets. No. 152,674; Oct. 25.
White, George S., Los Angeles, Calif. Bio-dynamo-chromes, chromatic screens, &c. No. 146,043; Oct. 25.
Wichwire Spencer Steel Corporation, Worcester, Mass. Combination-packages of wire culinary and kitchen utensils. No. 146,856; Oct. 25.
Wiechert, Geo. A., Co., Inc., New York, N. Y. Gold alloys for dental castings. No. 143,143; Oct. 25.
Wilcox Grocery Company, The, Mount Carmel, Ill. Cigars. No. 144,760; Oct. 25.
Williams, J. H., & Co., Brooklyn, N. Y. Drop-forgings, castings, stampings, steels. No. 149,574; Oct. 25.
Williams, Percy D. T., Philadelphia, Pa. Toothbrushes. No. 140,623; Oct. 25.
Wilson, Arthur T., Chicago, Ill. Preparation for eyebrows and lashes. No. 147,753; Oct. 25.
Yeastole Company, Eureka Springs, Ark. Yeast. No. 149,722; Oct. 25.
Young, Luther A., University City, Mo. Dental polishes. No. 142,866; Oct. 25.
Youngstown Sheet & Tube Co., The, Youngstown, Ohio. Iron and steel pipe and pipe-couplings. No. 146,615; Oct. 25.
Ziegler, George, Co., Milwaukee, Wis. Candles. No. 149,845; Oct. 25.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 25TH DAY OF OCTOBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Adding-machine. C. W. Gooch. No. 1,395,044; Oct. 25.
Advertising device. J. M. Barbera. No. 1,394,881; Oct. 25.
Aerial bomb. S. Hough. No. 1,394,902; Oct. 25.
Aeroplane. N. G. Pappas. No. 1,395,204; Oct. 25.
Aeroplane. G. A. Spratt. No. 1,394,585; Oct. 25.
Aeroplane. G. Weikil. No. 1,395,068; Oct. 25.
Agricultural implement. G. Tompkins. No. 1,394,651; Oct. 25.
Air-brake system. H. A. Bryan. No. 1,395,221; Oct. 25.
Air cooler moistener and purifier, Portable. B. Macfadden. No. 1,394,924; Oct. 25.
Air moistening and distributing device. C. W. Mosher. No. 1,394,859; Oct. 25.
Airplane. G. C. Loening. No. 1,394,630; Oct. 25.
Airplane-engines, Driving connections for. B. D. Thomas. No. 1,394,870; Oct. 25.
Airplane-fuselage. W. L. Gilmore. No. 1,394,726; Oct. 25.
Alarm track-gage. W. D. Harper. No. 1,395,105; Oct. 25.
Alcohol from gas containing ethylene, Production of. C. A. Basore. (Reissue.) No. 15,211; Oct. 25.
Alloy. Heat treatment of aluminum. E. Blough. No. 1,394,634; Oct. 25.
Alumina, Manufacture of pure. E. Martin. No. 1,394,864; Oct. 25.
Animal-stock. T. Olinger. No. 1,394,783; Oct. 25.
Anthraquinone derivatives and new products resulting therefrom, Manufacture of. A. Lüttringhaus and L. Elffiaender. No. 1,394,851; Oct. 25.
Antifreeze device. F. C. Stewart. No. 1,394,648; Oct. 25.
Arch and archbrick. A. H. Willett. No. 1,394,878; Oct. 25.
Autographic register. A. P. F. Pico. No. 1,394,785; Oct. 25.
Automatic-stop oil-gage. D. D. Cureton, Jr. No. 1,395,095; Oct. 25.
Automobile-bumper. O. H. Goetz. Nos. 1,394,892–3; Oct. 25.
Automobile-door latch. D. B. Lauzon. No. 1,394,681; Oct. 25.
Automobile-jack. R. F. Downey. No. 1,394,888; Oct. 25.
Automobile lighting device. A. J. Chmurski. No. 1,395,039; Oct. 25.
Automobile-lock. F. O. Boswell. No. 1,395,220; Oct. 25.
Automobile-lock. R. B. Rutherford. No. 1,395,146; Oct. 25.
Automobile-puller. J. H. Wright. No. 1,394,703; Oct. 25.
Automobile running-boards, Attachment for. T. L. Fay. No. 1,395,226; Oct. 25.
Automobiles, Accessories for Ford. W. J. Koster. No. 1,394,846; Oct. 25.
Automobiles, Locking device for. J. M. White. No. 1,394,572; Oct. 25.
Automobiles, Metal double-decking buck for. E. S. Evans. No. 1,395,225; Oct. 25.
Automobiles, Overhead and underground storage for. F. Y. McKinstry. No. 1,394,999; Oct. 25.
Automobiles, Spring suspension for. C. Fredriksen. No. 1,394,724; Oct. 25.
Axle, Differential. J. Martin. No. 1,394,855; Oct. 25.
Axle, Rear. J. V. Kammers. No. 1,394,842; Oct. 25.
Azo dye and its manufacture. R. Arnot. No. 1,395,238; Oct. 25.
Badge. C. J. Dieges. No. 1,394,977; Oct. 25.
Bake-pan, Multiple. E. Biggs. No. 1,395,030; Oct. 25.
Baking apparatus. F. T. Snyder. No. 1,395,211; Oct. 25.
Baking, Method and apparatus for. S. D. Flood. No. 1,394,674; Oct. 25.
Baling-press. A. Payne. No. 1,395,135; Oct. 25.
Ball-mill feeder, Automatic. H. H. Burbans. No. 1,395,089; Oct. 25.
Balling-machine. A. G. Walls. No. 1,395,213; Oct. 25.
Bank. A. C. Prince. No. 1,395,008; Oct. 25.
Banking means, Auxiliary. O. V. Smith. No. 1,395,156; Oct. 25.
Bar: *See*—
Double bumper-bar.
Barber or like chairs, Headrest for. G. C. Larala. No. 1,394,913; Oct. 25.
Barge, Dumping-. A. F. Wiking. No. 1,394,594; Oct. 25.
Barrel, Sheet-metal. J. W. McNeil. No. 1,394,923; Oct. 25.
Basket, Centrifugal. E. E. La Duke. No. 1,394,743; Oct. 25.
Batting-out and slapping-on device, Automatic. F. P. Strobl. No. 1,395,161; Oct. 25.
Bearings, Ball-holder for ball-. K. W. Lindman. No. 1,395,126; Oct. 25.
Bed couch, Folding-. M. Sherman. No. 1,394,584; Oct. 25.
Bed-spring, Collapsible. D. J. and W. C. Davis. No. 1,394,609; Oct. 25.
Bed structure, Collapsible. S. H. Smith. No. 1,395,155; Oct. 25.
Bed with adjustable folding headpiece, Day-. J. A. Fischer. No. 1,394,985; Oct. 25.
Beds, Fastening device for auto porch-. P. C. Schaefer. No. 1,395,151; Oct. 25.
Bedstead. H. H. Talbot. No. 1,394,695; Oct. 25.
Belt, Driving-. B. P. Champney. No. 1,394,967; Oct. 25.
Belt pulley and tightener. B. D. Barton. No. 1,394,705; Oct. 25.
Belts, Link for chain. R. W. Dull. Nos. 1,394,979–80; Oct. 25.
Bicycle. C. K. G. Schoenknecht. No. 1,394,846; Oct. 25.
Binder, Loose-leaf. D. C. Benedict. No. 1,394,707; Oct. 25.
Bituminous substances, Treating. G. A. Wilson, Jr. No. 1,394,874; Oct. 25.
Blackboard. C. B. Neil and R. B. Boggs. No. 1,394,872; Oct. 25.
Board: *See*—
Drain-board. Plaster-board.
Drawing-board.
Boat, Wheeled. J. A. Howell. No. 1,395,112; Oct. 25.
Boiler: *See*—
Steam-boiler.
Boiler-feed, Automatic. M. F. McNerney. No. 1,395,183; Oct. 25.
Boiler-tubes, Apparatus for tightening leakages in and about. J. M. Johansson. No. 1,395,186; Oct. 25.
Book formed with several turning-arms, Device for automatically turning over leaves of a. A. W. Riebe. No. 1,395,143; Oct. 25.
Boot and shoe stretcher. L. Walker. No. 1,394,871; Oct. 25.
Boring-machine. C. A. Smith. No. 1,394,766; Oct. 25.
Bowl, Mixing-. A. S. Diack. No. 1,394,540; Oct. 25.
Box: *See*—
Combination toilet-box. Service-box.
Fare-collecting box. Slide-cover box.
Box and process and manufacture thereof. A. G. Wetmore. No. 1,394,593; Oct. 25.
Box or case, Security. E. H. Duncan. No. 1,394,981; Oct. 25.
Boxes, Bushing for. P. E. C. Sater. No. 1,394,942; Oct. 25.
Bracelet. W. C. Wood. No. 1,394,877; Oct. 25.
Bracket. W. M. Folberth. No. 1,394,988; Oct. 25.
Brake: *See*—
Car-brake.
Brick. J. A. Papot. No. 1,394,759; Oct. 25.
Bricks, Manufacture of. I. Brettschneider. No. 1,395,178; Oct. 25.
Bridge, Bascule-. H. A. F. Abt. No. 1,394,519; Oct. 25.
Broom. H. O. Hennig. No. 1,395,109; Oct. 25.
Brush, Rotary. C. E. Frost. No. 1,394,993; Oct. 25.
Buckets, Scraper attachment for unloader-. C. E. Van Syckle. No. 1,394,699; Oct. 25.
Buckle. H. Hoeschen. No. 1,394,552; Oct. 25.
Buckle. G. Rottman. No. 1,394,644; Oct. 25.
Buckle-body, Forming a. F. W. Lewis. No. 1,395,124; Oct. 25.
Burner: *See*—
Fuel-burner. Liquid-fuel burner.
Gas-burner. Vapor-burner.
Hydrocarbon-burner.
Button, Press-. A. Mann. (Reissue.) No. 15,212; Oct. 25.
Cabinet for talking-machine records. E. Blaise. No. 1,394,904; Oct. 25.
Cabinet, Record-rack. G. G. Ross. No. 1,394,864; Oct. 25.
Calculating-machine. A. F. Poole. No. 1,394,641; Oct. 25.
Calculating-machine. F. J. Tillman. No. 1,394,600; Oct. 25.
Camera attachment. L. Mandel. No. 1,394,568; Oct. 25.
Camera-shutter release. A. S. Warne. No. 1,395,214; Oct. 25.
Can-feed chute, Safety. A. E. Thompson. No. 1,394,700; Oct. 25.
Cans, Method and means for assembling sifter-top members for. G. Holthaus. No. 1,394,623; Oct. 25.
Car-brake. F. C. Foster. No. 1,394,990; Oct. 25.

Car-door, Sheet-metal flush. A. S. Barrows. No. 1,395,080; Oct. 25.
Car, Tank-. R. R. Weaver. No. 1,394,956; Oct. 25.
Carbonator and filler, Combination. E. E. Bager and O. L. King. No. 1,394,794; Oct. 25.
Carburetor. W. Ashworth. No. 1,395,170; Oct. 25.
Carburetor. W. O. Chase. No. 1,394,536; Oct. 25.
Carburetor. F. C. Mock. No. 1,395,233; Oct. 25.
Carburetor. W. Reid. No. 1,394,687; Oct. 25.
Card section, Interchangeable price-. H. L. Lovett. No. 1,395,127; Oct. 25.
Carrier: *See*—
Hay-carrier.
Casting, Hollow. H. and J. Hoffer. No. 1,394,553; Oct. 25.
Ceilings, Construction of. T. Culshaw. No. 1,394,714; Oct. 25.
Cellulose acetate and the product thereof, Treating. G. W. Miles. No. 1,394,752; Oct. 25.
Center-testing device. H. O. Brion. No. 1,395,087; Oct. 25.
Centrifugal separator. F. H. Lindenberg. No. 1,395,193; Oct. 25.
Chain, Antiskid-. N. H. Nelson. No. 1,395,057; Oct. 25.
Chain connection. A. P. Griffin. No. 1,394,618; Oct. 25.
Chain-fastener. C. W. Burge. No. 1,394,666; Oct. 25.
Chain-tracks, Upper-run support for. B. Holt. No. 1,394,996; Oct. 25.
Chair: *See*—
Rail-chair.
Chair-back and picture-frame therefor. B. G. Schomacker. No. 1,395,153; Oct. 25.
Channel-iron and anchor. L. P. Wentzell. No. 1,395,070; Oct. 25.
Chlorhydrins, Making. B. T. Brooks. No. 1,394,664; Oct. 25.
Chronometer. W. A. Slingerland. No. 1,395,154; Oct. 25.
Cigar-box-lid holder. W. M. Anderson. No. 1,395,215; Oct. 25.
Cigars and cigarettes, Ash-protector and cutter adaptable to. R. A. Hoffmann. No. 1,394,622; Oct. 25.
Cinematographic films, Device for maintaining the slack of. S. Kucharski. No. 1,395,119; Oct. 25.
Cinematographic machine. E. Pluderi. No. 1,395,137. Oct. 25.
Circuit-controlling apparatus, Automatic. L. M. Klauber. No. 1,395,046; Oct. 25.
Circuit-testing apparatus. L. P. Carle. No. 1,395,037; Oct. 25.
Clamp: *See*—
Display-clamp. Hood-clamp.
Clamp. W. V. Isgrig. No. 1,394,904; Oct. 25.
Clamp. J. L. Spence, Jr. No. 1,394,691; Oct. 25.
Clasp. O. Gehrke. No. 1,395,102; Oct. 25.
Cleaner: *See*—
Fish-cleaner. Suction-cleaner.
Rubber floor-cleaner.
Cleaner. H. Prell. No. 1,394,789; Oct. 25.
Climbing-iron. J. Selinger-Balser. No. 1,395,234; Oct. 25.
Clip: *See*—
Mail-clip.
Clip. L. P. Wentzell. No. 1,395,071; Oct. 25.
Clock-escapement. H. C. Saul. No. 1,395,148; Oct. 25.
Clock, Self-winding. A. L. Sohm. No. 1,394,689; Oct. 25.
Clock, Ship's-bells. F. X. Wehrle. No. 1,394,957; Oct. 25.
Cloth-cutter, Electric. F. A. Scalfaro and J. A. McLeod. No. 1,395,150; Oct. 25.
Clutch. C. C. Blake. No. 1,394,805; Oct. 25.
Cock and strainer, Combined stop-. A. C. Schuermann. No. 1,394,762; Oct. 25.
Coiling-machine. T. F. Lamb. No. 1,395,190; Oct. 25.
Coin-vending machine. E. J. Koehler. No. 1,394,559; Oct. 25.
Coke-oven door. W. E. Roberts. No. 1,395,061; Oct. 25.
Colloidal suspension of polymers and making same. J. W. Phillips. No. 1,395,242; Oct. 25.
Combination-lock. W. J. H. Ruschmeyer. No. 1,394,792; Oct. 25.
Combination toilet-box. C. A. James. No. 1,394,837; Oct. 25.
Composition, Antidimming. H. A. Kuhn. Nos. 1,394,773–4; Oct. 25.
Compressing mechanism. G. N. Bager. No. 1,394,580; Oct. 25.
Compressor. G. J. Daloz. No. 1,394,811; Oct. 25.
Compressor-controlling mechanism. A. D. Ferguson. No. 1,394,819; Oct. 25.
Compressor-unloader. A. O. Carpenter. No. 1,395,090; Oct. 25.
Compressors, Unloading apparatus for. W. H. Wineman. No. 1,394,802; Oct. 25.
Concrete building-slab. M. B. Herbrick. No. 1,394,550; Oct. 25.
Concrete houses and other buildings, Mold for constructing. W. H. Roughsedge. No. 1,394,790; Oct. 25.
Concrete-pipe, molds. Inner form for. J. C. Mitchell. No. 1,394,570; Oct. 25.
Concrete structures, Erecting. S. Lake. No. 1,394,907; Oct. 25.
Condenser apparatus. S. A. Moss. No. 1,394,929; Oct. 25.
Condenser, Surface. W. Koedding. No. 1,394,627; Oct. 25.
Condensers, Air-pump for. F. Ljungström. No. 1,394,748; Oct. 25.
Connecting device. M. W. Doyle. No. 1,394,673; Oct. 25.
Connector, Multiple. J. W. Haywood. No. 1,395,108; Oct. 25.
Container, Metal-bound fiber. A. L. Weis and W. H. Ray. No. 1,394,592; Oct. 25.
Container, Open-end. A. L. Weis. No. 1,394,590; Oct. 25.
Container, Sealed. T. H. French. No. 1,394,545; Oct. 25.
Controlling mechanism. C. R. Underhill. No. 1,395,066; Oct. 25.
Cooling-tower. E. Burhorn. No. 1,394,605; Oct. 25.
Cot. I. S. Purcell. No. 1,394,578; Oct. 25.
Cotton cleaning and separating machine. J. E. Witchell. No. 1,395,054; Oct. 25.
Cotton, Machine for treating. J. F. Levering. No. 1,394,775; Oct. 25.
Coupling: *See*—
Pipe-coupling.
Cover-sealing means. W. H. Ray. No. 1,394,581; Oct. 25.
Cover-support. A. F. Zega. No. 1,394,879; Oct. 25.
Covers, Fastener for. C. W. Davis. No. 1,394,672; Oct. 25.
Crank-shaft. J. W. Hudson. No. 1,395,113; Oct. 25.
Crib, Folding. J. W. Kennedy. No. 1,394,625; Oct. 25.
Cues, Machine for repairing. H. O. Taylor. No. 1,395,236; Oct. 25.
Cultivator. C. J. Allen, J. M. Howard, and D. R. Richie. No. 1,394,522; Oct. 25.
Cultivator, Tractor-. R. C. Shelton. No. 1,395,210; Oct. 25.
Cushion-wheel. J. Nelson. No. 1,394,779; Oct. 25.
Cutter: *See*—
Cloth-cutter. Pipe-cutter.
Cutters, Web-guide for rotary. H. M. Barber. No. 1,394,961; Oct. 25.
Cutting machine, Shingle-. R. D. King. No. 1,394,911; Oct. 25.
Cyanamid, Granulating. L. Barbé. No. 1,394,532; Oct. 25.
Cylinders, Apparatus for filling oxygen-. M. von Beckinghausen. No. 1,394,955; Oct. 25.
Decarbonizing device. H. Bruneau. No. 1,394,665; Oct. 25.
Dental amalgam or alloy mixer. B. Siml. No. 1,395,235; Oct. 25.
Dental bridgework, Horizontally-split attachment for removable. J. Zirikian. No. 1,394,770; Oct. 25.
Die-casting machine. J. C. Kopf. No. 1,394,561; Oct. 25.
Die-head. V. R. Koontz. No. 1,394,845; Oct. 25.
Die-head, Self-opening. W. C. Hafemeister. No. 1,394,549; Oct. 25.
Differential gage. A. T. Baldwin. Nos. 1,394,660–1; Oct. 25.
Dipper-tooth. W. S. McKee. No. 1,395,048; Oct. 25.
Direction-indicator. N. T. Brown. No. 1,395,088; Oct. 25.
Dirigible. A. C. Mihanovich. No. 1,395,051; Oct. 25.
Disconnecting-switch. C. Christensen. No. 1,394,968; Oct. 25.
Display-card. C. C. Cohn. No. 1,394,537; Oct. 25.
Display-clamp. G. Potstada. No. 1,394,788; Oct. 25.
Display-rack. G. Bailey and J. P. Neilsen. No. 1,395,239; Oct. 25.
Distillates, Apparatus for condensing and treating. R. Fleming. No. 1,394,987; Oct. 25.
Door, Automatic garage-. H. Groves. No. 1,394,728; Oct. 25.
Door-stop. C. O. and R. J. Foedisch. No. 1,394,889; Oct. 25.
Doors, Device for opening and closing garage. M. L. Haney. No. 1,395,240; Oct. 25.
Double bumper-bar. L. P. Halladay. No. 1,395,045; Oct. 25.
Doughy and powdery material, Filling-machine for. H. O. Schilling. No. 1,394,582; Oct. 25.
Draft appliance. J. R. Moore. No. 1,394,858; Oct. 25.
Draft appliance, Implement. B. M. Hunter. No. 1,394,903; Oct. 25.
Drain-board. H. Hansen. No. 1,394,994; Oct. 25.
Drawing-board. J. F. Copeland. No. 1,394,538; Oct. 25.
Drawing-board. L. W. Moore. No. 1,395,200; Oct. 25.
Drill: *See*—
Metal drill.
Drill. C. E. Barry and M. L. McClelland. No. 1,395,081; Oct. 25.
Drill. R. Caverly. No. 1,395,091; Oct. 25.
Drill-head. J. F. Buhr. No. 1,394,709; Oct. 25.
Drill or tap holder. P. Sauve. No. 1,394,795; Oct. 25.
Drill, Portable radial. E. G. Lindhe. No. 1,395,194; Oct. 25.
Drilling apparatus. G. G. Reeves. No. 1,395,059; Oct. 25.
Driving mechanism. H. L. Fisher. No. 1,394,986; Oct. 25.
Dyeing-machine. J. H. Thompson. No. 1,395,165; Oct. 25.
Dyestuffs containing chromium and process of making same, Green acid. A. Grob. No. 1,394,823; Oct. 25.
Educational apparatus. M. A. M. Haupt. No. 1,394,620; Oct. 25.
Electric feed-water regulator. W. M. Reichart. No. 1,394,643; Oct. 25.
Electric-heating-element-controlling device. P. M. Mueller. Nos. 1,395,002–3; Oct. 25.
Electric-lighting fixtures, Suspension means for. I. L. Park. No. 1,394,575; Oct. 25.
Electric marking device. C. A. Bourne. No. 1,394,965; Oct. 25.
Electric-meter construction. D. J. Angus. No. 1,394,528; Oct. 25.
Electric motor. E. Bretch. No. 1,394,535; Oct. 25.

Electric regulation. J. L. Creveling. No. 1,394,972; Oct. 25.
Electric signaling system. R. L. Quass. No. 1,394,642; Oct. 25.
Electric switch. F. C. De Reamer. No. 1,394,976; Oct. 25.
Electric toaster. I. J. Mandels. No. 1,394,856; Oct. 25.
Electrical apparatus. N. Sugimura. No. 1,394,951; Oct. 25.
Electrical apparatus, Casing for. M. L. Elder. No. 1,394,982; Oct. 25.
Electrical apparatus, Water-cooled. A. B. Hendricks, Jr. No. 1,394,899; Oct. 25.
Electrical transformer. H. L. Ide. No. 1,394,555; Oct. 25.
Electricity transformer and transforming and converting apparatus. H. M. Hobart. No. 1,394,901; Oct. 25.
Electromagnetic rectifier and current-redresser. R. A. Engler. No. 1,394,815; Oct. 25.
Elevators, Dump for grain-. H. A. Peterson. No. 1,394,577; Oct. 25.
Emery-cloth holder. H. Müller. No. 1,394,757; Oct. 25.
Emery-wheel dresser. M. G. Dobbins. No. 1,395,098; Oct. 25.
Engine: *See*—
Internal-combustion engine.
Starter-engine.
Engine-cylinders, Machine for grinding and reboring. W. J. Jackson. No. 1,394,836; Oct. 25.
Engine-starter. A. J. Hanson. No. 1,394,619; Oct. 25.
Engines, Attachment for internal-combustion. B. M. Little. No. 1,394,747; Oct. 25.
Engines, Auxiliary ignition system for gas-. R. R. Shaw. No. 1,394,944; Oct. 25.
Engines, Construction for traction-. E. E. Wickersham. No. 1,395,024; Oct. 25.
Engines, Governor for gas-. C. P. Hall. No. 1,394,826; Oct. 25.
Engines, Mixing device for explosive-. J. H. Fritz. No. 1,394,820; Oct. 25.
Engines, Oil-filter for gas-. E. E. Wells. No. 1,395,060; Oct. 25.
Engines, Oiling system for. G. F. Nutting. No. 1,394,782; Oct. 25.
Engines or pumps, Automatic pressure-operated valve for. M. J. Johns. No. 1,394,679; Oct. 25.
Engines, Thrust-bearing for internal-combustion. C. C. Fuller. No. 1,395,043; Oct. 25.
Eyeglass-mounting. F. C. Merry. No. 1,395,199; Oct. 25.
Fabric: *See*—
Wire mattress fabric.
Fabrics to objects, Applying coated. H. Gault. No. 1,394,890; Oct. 25.
Fan, Oscillating. P. De Clamecy. No. 1,394,975; Oct. 25.
Fare-collecting box. A. Buebsamen and W. L. Dennis. No. 1,394,941; Oct. 25.
Fastenings, Machine for inserting. C. C. Blake. No. 1,394,806; Oct. 25.
Fats and oils, Rendering. C. F. Kamrath. No. 1,394,736; Oct. 25.
Feed-cutters, Comminuting attachment for. O. C. Frick. No. 1,394,725; Oct. 25.
Feed-mill. W. L. Beall. No. 1,394,803; Oct. 25.
Feeding mechanism. G. C. Kelling. No. 1,394,908; Oct. 25.
Feeding-table, Adjustable. F. R. Belluche. No. 1,395,027; Oct. 25.
Felts, Apparatus for cleaning. E. D. Bennett. No. 1,395,219; Oct. 25.
File. J. W. McCann. No. 1,395,197; Oct. 25.
Film-hanging device. G. E. Tornsjo. No. 1,394,697; Oct. 25.
Films, Daylight developing and fixing apparatus for roll-. M. H. Stockwell. No. 1,395,160; Oct. 25.
Firearm. E. G. Reising. No. 1,395,141; Oct. 25.
Fish-cleaner, Automatic. C. H. Carter. No. 1,394,711; Oct. 25.
Fishing-reels, Attachment for. G. D. Jones. No. 1,395,118; Oct. 25.
Fishing-tackle. C. Fredricks. No. 1,394,616; Oct. 25.
Flag and container, Trainman's. H. H. Olsen. No. 1,394,933; Oct. 25.
Flotation agent. C. L. Perkins. No. 1,394,639; Oct. 25.
Fluid-actuated motor. L. C. Bayles. No. 1,395,082; Oct. 25.
Flushing device, Portable. W. E. Lewis, J. S. Adamson, and M. J. Mahon. No. 1,395,125; Oct. 25.
Flying-machine. R. A. Engler. No. 1,394,814; Oct. 25.
Flying-machine. R. A. Engler. No. 1,394,816; Oct. 25.
Frame: *See*—
Picture-frame.
Fuel-burner. H. P. Porter. No. 1,395,139; Oct. 25.
Fuel feed and mixture control, Automatic. E. E. Wickersham. No. 1,395,022; Oct. 25.
Fuel-feeding device. J. C. Coulombe. No. 1,395,224; Oct. 25.
Fuel-separator and fuel vaporizer, Carbureted-. C. F. Smith. No. 1,394,948; Oct. 25.
Fuel-supply-control mechanism. A. E. Walden. No. 1,395,212; Oct. 25.
Furnace attachment. E. C. Mason. No. 1,394,634; Oct. 25.
Furnace-casing. N. Frost. No. 1,394,821; Oct. 25.
Furniture. A. H. Luedde. No. 1,394,750; Oct. 25.
Gage: *See*—
Alarm track-gage. Limit-gage.
Automatic-stop oil-gage. Thread-gage.
Differential gage. Water-gage.
Gage and marker, Combined. E. B. Fry. No. 1,394,992; Oct. 25.
Game, Baseball. N. I. Sheehan. No. 1,394,764; Oct. 25.
Garment, Child's. L. Jeslow. No. 1,395,115; Oct. 25.
Garment, Electrothermal. J. E. Craddick. No. 1,394,610; Oct. 25.
Garment-supporter. C. L. Feltman. No. 1,394,720; Oct. 25.
Garter. E. Landgraf, geb. Cartharius. No. 1,395,192; Oct. 25.
Gas-burner. J. Festa. No. 1,394,721; Oct. 25.
Gas engine or motor, Rotary. R. H. Stewart. No. 1,394,587; Oct. 25.
Gas or liquid fuel burner. J. Lukassewski. No. 1,395,196; Oct. 25.
Gas-plate. L. De Meutter. No. 1,395,097; Oct. 25.
Gas-testing apparatus. G. G. Oberfell and A. M. Ballard. No. 1,395,201; Oct. 25.
Gases, Apparatus for the electrical treatment of. H. J. Kennard. No. 1,394,771; Oct. 25.
Gasolene-flow-line lock. C. S. Neville. No. 1,394,860; Oct. 25.
Gasolene. Process and apparatus for treating petroleum-oils to produce. R. Yates. No. 1,395,075; Oct. 25.
Gasolene-tanks, Low-supply alarm for. E. K. McKissick. No. 1,395,132; Oct. 25.
Gate-operating machine, End-. G. Akers. No. 1,394,521; Oct. 25.
Gear, Changeable-speed. H. W. Warren. No. 1,395,067; Oct. 25.
Gear clutch, Magnetic reversing and speed-varying. E. J. Murphy. No. 1,394,932; Oct. 25.
Gear-planing machine. A. L. Stewart and E. C. Head. No. 1,394,586; Oct. 25.
Gear-puller attachment. C. P. Beach. No. 1,394,963; Oct. 25.
Gear, Steering-. D. E. Rose. No. 1,395,013; Oct. 25.
Gear-wheel. E. Marlow. No. 1,394,751; Oct. 25.
Gear, Worm-. C. H. McClure. No. 1,394,852; Oct. 25.
Gill-drawing frames, Top screw for. W. Holdsworth. No. 1,394,829; Oct. 25.
Glass-delivery apparatus. R. T. McGee. No. 1,394,920; Oct. 25.
Glass-discharging mechanism. E. S. Hutton. No. 1,394,677; Oct. 25.
Glass, Process and apparatus for drawing sheet-. I. W. Colburn. No. 1,394,809; Oct. 25.
Glass roll. K. Matuo. No. 1,394,684; Oct. 25.
Glass using natural silicates, such as micaceous minerals, asbestos, &c., Manufacture of s. P. B. Crossley. No. 1,394,973; Oct. 25.
Glue, Manufacture of liquid. D. K. Tressler. Nos. 1,394,653–4; Oct. 25.
Governor-controlled combustion-engine. A. Tacchella. No. 1,394,953; Oct. 25.
Grain-drills, Automatic gear-throw-out mechanism for. T. Brennan, Jr. No. 1,394,663; Oct. 25.
Grain under high pressure and high temperature, Apparatus for processing. C. V. Rowell. No. 1,395,014; Oct. 25.
Grains and product therefrom, Treating wheat-. C. V. Rowell. No. 1,395,015; Oct. 25.
Grate, Stoker-. G. F. Patterson. No. 1,395,006; Oct. 25.
Grinder, Cutter-blade. C. F. Robbins. No. 1,395,145; Oct. 25.
Grinding machine, Pulley-. W. C. Barnhart. No. 1,394,704; Oct. 25.
Gun, Barrel-recoil. F. Finckh. No. 1,394,984; Oct. 25.
Gun mount, Anti-aircraft-. W. Turnbull and E. F. Norelius. No. 1,395,020; Oct. 25.
Gun-pointing gear, Apparatus for the electrical long-distance control of the valve-gear of a hydraulic. W. Akemann. No. 1,394,520; Oct. 25.
Hair-clipper. F. L. Gray. No. 1,395,104; Oct. 25.
Hair-dressing appliance. R. S. M. Schroeder. No. 1,394,943; Oct. 25.
Hair, wool, and other animal fiber, and the product so produced, Mineralizing. A. O. Trostel. No. 1,394,655; Oct. 25.
Hammer, Power-. G. Fogde. No. 1,394,722; Oct. 25.
Hat-shaping device. J. C. Haslam. No. 1,395,106; Oct. 25.
Hay-carrier. W. Gutenkunst. No. 1,394,729; Oct. 25.
Headlight. E. G. Sylvester. No. 1,394,694; Oct. 25.
Headlight. W. G. Wood. No. 1,395,026; Oct. 25.
Headlight, Dirigible. W. A. Rutherford. No. 1,395,147; Oct. 25.
Headlight-reflector. C. A. B. Halvorson, Jr. No. 1,394,896; Oct. 25.
Headlight-reflector. J. A. O'Neil. No. 1,394,934; Oct. 25.
Heater: *See*—
Water-heater.
Heater for hot-pipe systems. W. Karlsson. No. 1,394,557; Oct. 25.
Heating apparatus, Electric. H. Geisenhöner. No. 1,394,891; Oct. 25.
Heating-tank. J. M. Stocker. No. 1,394,692; Oct. 25.
Heating unit, Electric. C. C. Abbott. No. 1,394,518 Oct. 25.
Heel, Revolving. T. Hand. No. 1,394,676; Oct. 25.
Heel, Shoe-. A. Cohen. No. 1,394,712; Oct. 25.

Hides and skins, Making depilatory for. A. H. Rowe. No. 1,394,585; Oct. 25.
Hoisting and conveying machinery. C. W. Arnhem. No. 1,395,977; Oct. 28.
Hydrant connection. H. H. Lyon. No. 1,395,041; Oct. 28.
Hydrant-stand. J. W. Hall. No. 1,394,685; Oct. 25.
Hydraulic separating. H. H. Lyon. No. 1,395,042; Oct. 28.
Hydrocarbon-burner. A. Blackburn. No. 1,394,587; Oct. 25.
Hydrocarbon-burner. J. W. F. Macdonald. No. 1,394,597; Oct. 25.
Hydrocarbon generators and burners, Igniting and controlling device for. G. H. Blanchard. No. 1,394,597; Oct. 25.
Ignition systems, Timer-ring for. G. Feegel and H. Schmid. No. 1,395,012; Oct. 28.
Indicator: See—
Direction-indicator.
Ingots or like moulds, Apparatus for automatic manipulation of metal. E. W. Davies. No. 1,394,671; Oct. 25.
Insect-trap. R. G. Koch. No. 1,394,626; Oct. 25.
Insoles, Machine for preparing. A. E. Johnson. No. 1,394,905; Oct. 28.
Intake-manifold-heating device. H. H. Holloway. No. 1,394,830; Oct. 26.
Internal-combustion engine. A. R. Long. No. 1,394,859; Oct. 26.
Internal-combustion engine. E. V. Plank. No. 1,395,186; Oct. 28.
Internal-combustion-engine pistons, Cooling system for. E. Kjellen. No. 1,394,844; Oct. 25.
Iron: See—
Climbing-iron. Soldering-iron.
Jack: See—
Automobile-jack. Lifting-jack.
Jam-nut. W. O. Heyter and G. A. Frink. No. 1,394,739; Oct. 25.
Joint: See—
Rail-joint. Universal joint.
Key device. R. M. Hopkins. No. 1,394,583; Oct. 25.
Keyboard, Master. W. P. Sout. No. 1,394,602; Oct. 25.
Knitted cap. D. Karger. No. 1,395,230; Oct. 28.
Labeling-machine, Gravity. A. Lafata. No. 1,394,744; Oct. 25.
Labels, Device for applying paste to. A. F. Nelson. No. 1,395,056; Oct. 25.
Lacer, Implement for fixing tips to. A. L. Evenden, J. D. and J. A. Casey. No. 1,394,719; Oct. 25.
Lamp and heater, Electric. E. A. Corbin, Jr. No. 1,394,667; Oct. 25.
Lamp, Arc-. M. J. Wohl. No. 1,394,675; Oct. 25.
Lamp, Arc-. M. J. Wohl and H. Hertzberg. No. 1,394,676; Oct. 25.
Lamp fixture, Electric-. L. Armitage. No. 1,394,529; Oct. 25.
Land, Machine for ridging. V. E. Parrish. (Reissue.) No. 15,218; Oct. 25.
Latch. E. Applegate. No. 1,394,659; Oct. 25.
Latch, Automatic. P. Matera. No. 1,394,695; Oct. 25.
Lathe-tool holder. L. Kratzer and A. Boone. No. 1,394,629; Oct. 25.
Lever, Door-shaft. D. Hindahl. No. 1,394,631; Oct. 25.
Life-sustaining apparatus. P. Habrich. No. 1,394,824; Oct. 25.
Lift: See—
Plow-lift.
Lifting-jack. G. O. Leopold. No. 1,395,123; Oct. 25.
Limit-gage. A. Danielsson. No. 1,394,974; Oct. 26.
Liquid, Apparatus for handling containers of. J. R. Coe. No. 1,395,040; Oct. 28.
Liquid-dispensing apparatus. E. E. Murphy. No. 1,394,753; Oct. 25.
Liquid-evaporator, Centrifugal. J. A. Belt. No. 1,395,218; Oct. 28.
Liquid-fuel burner. C. H. Allsop. No. 1,394,606; Oct. 25.
Liquid-fuel burner. H. W. Parrish. No. 1,394,676; Oct. 25.
Lock: See—
Automobile-lock. Nut-lock.
Combination-lock. Steering-wheel lock.
Gasoline-flow-line lock.
Locomotives, Burning pulverized fuel in. H. B. Barnhurst, H. B. Calkins, and H. G. Barnhurst. No. 1,395,079; Oct. 28.
Logging apparatus. D. Lawson. No. 1,394,745; Oct. 25.
Looms, Battery mechanism for automatic filling-replenishing. A. E. Rhoades. No. 1,395,011; Oct. 25.
Looms, Filling-and catcher for. C. E. Nutting. No. 1,394,637; Oct. 25.
Looms, Filling-severing means for automatic filling-replenishing. A. E. Rhoades. No. 1,395,012; Oct. 28.
Looms, Temple-thread parter for. U. N. Trembley. No. 1,394,652; Oct. 25.
Looms, Transferring mechanism for automatic filling-replenishing. A. E. Rhoades. No. 1,395,010; Oct. 28.
Looms, Warp stop-motion for. A. S. Cowan. No. 1,394,970; Oct. 26.
Lubricant. C. S. Willey. No. 1,395,073; Oct. 28.
Lubricating device. C. Calloway. No. 1,395,176; Oct. 28.
Magazine and sheet-withdrawing mechanism therefor. A. L. Kronquest. No. 1,395,229; Oct. 28.
Maintaining implement. W. B. Stuvelter. No. 1,395,190; Oct. 28.
Mattress support, Spring-. H. Litvak. No. 1,394,849; Oct. 25.
Measuring and dispensing device. L. B. Tucker. No. 1,395,[illegible]; Oct. 28.
Measuring apparatus for bottle-filling. Syrup-. E. Alexander. No. 1,394,[illegible]; Oct. 25.
Measuring apparatus. Electrical. A. J. E. Pique. No. 1,394,[illegible]; Oct. 25.
Meat-separator. R. E. Johnston. No. 1,395,717; Oct. 28.
Medicinal compound. L. J. Richardson. No. 1,395,523; Oct. 28.
Metal-engraving. J. L. Chinn. No. 1,395,175; Oct. 28.
Metal-fish. H. Bencke. No. 1,394,696; Oct. 25.
Metal-working pot. E. Van Aker. No. 1,394,844; Oct. 25.
Metals, Cassiterite extraction-die for cold or hot spinning of. L. E. E. Bleet. No. 1,395,217; Oct. 28.
Mill: See—
Feed-mill.
Milling-machine attachment, Vertical-. H. E. Keyes. No. 1,394,[illegible]; Oct. 25.
Minerals, Concentration of. C. L. Perkins. No. 1,394,640; Oct. 25.
Mines. G. W. Bishop, Jr. No. 1,395,171; Oct. 28.
Mold: See—
Tire-mold.
Mortising-machine. A. C. Andrews. No. 1,394,527; Oct. 25.
Motion, Stop-. S. H. Goldstein. No. 1,394,546; Oct. 25.
Motor: See—
Electric motor. Fluid-actuated motor.
Motor-control system. R. H. McLain. No. 1,394,922; Oct. 25.
Motors, Device for lifting push-rods on Ford. W. F. McCarley. No. 1,395,120; Oct. 28.
Motors, Winding device for spring-. J. W. Jones. No. 1,394,907; Oct. 26.
Musical instruments, Transposing device for pneumatic. L. D. Dibert and E. C. Winter. No. 1,394,541; Oct. 25.
Musical instrument, Wind. I. O. Hawk. No. 1,395,107; Oct. 28.
Nail-clip. C. E. A. Gronbech. No. 1,394,727; Oct. 25.
Needle form and holder. J. Buttigieg. No. 1,394,686; Oct. 25.
Needle-arms and fulcrum-bars, Swaging. F. H. Dearr. No. 1,394,717; Oct. 25.
Nest, Segregating-. N. M. Bain. No. 1,395,078; Oct. 28.
Nitradian compounds, Making. W. B. Jones. No. 1,394,656; Oct. 25.
Nozzles, Traveling screen for suction-. M. Swintek. No. 1,394,698; Oct. 25.
Nut-lock. W. H. Klocke. Nos. 1,394,740-1; Oct. 26.
Nut-lock. J. Manchen and A. G. Bergman. No. 1,394,778; Oct. 26.
Nuts, Machine for castellating. W. Umbdenstock. No. 1,395,169; Oct. 28.
Oil-wells, Drill-head for. S. Sorenson. No. 1,394,760; Oct. 25.
Oils, Apparatus for treating hydrocarbon. R. Seeger. No. 1,394,685; Oct. 25.
Oiler. R. Frick. No. 1,394,901; Oct. 25.
Oilproof impregnating agent or coating process. A. J. Rowland. No. 1,395,016; Oct. 25.
Ores, Concentration of. A. Schwarz. No. 1,394,958; Oct. 25.
Ornamental device or pompon. T. A. Bowers. No. 1,395,023; Oct. 28.
Outlet-fitting. E. B. Benjamin. No. 1,395,064; Oct. 28.
Ovens, Baking-. W. H. Seamon. No. 1,394,706; Oct. 25.
Pad or mat. H. Freese. No. 1,395,227; Oct. 28.
Pan: See—
Bake-pan.
Pan-rack. J. Singer. No. 1,394,947; Oct. 25.
Paper, Apparatus for heading rolls of. J. B. West and L. J. Wais. No. 1,394,700; Oct. 25.
Paper, Sheet-feeding mechanism for. E. E. Palmer. No. 1,394,574; Oct. 24.
Pattern for making clothing. G. E. Serak. No. 1,394,583; Oct. 25.
Penchant, Luminous. D. Hole. No. 1,395,110; Oct. 28.
Pendulum. A. L. Sohm. No. 1,394,690; Oct. 25.
Perforating-machine. W. H. Lyman. No. 1,394,566; Oct. 25.
Phonograph-cabinet. J. Bachar. No. 1,394,960; Oct. 25.
Phonograph, Multiple-disk. J. Briggs. No. 1,395,035; Oct. 28.
Phonograph-record holder. A. Kemslering. No. 1,395,188; Oct. 28.
Phonographs, Automatic stop for. F. D. Lewis. No. 1,394,577; Oct. 25.
Phonographs, Automatic stop mechanism for. F. D. Lewis. No. 1,394,776; Oct. 25.
Phonographs, Stop mechanism for. S. Shelly. No. 1,395,017; Oct. 28.
Phonographs, Tone-modifier for. W. Scott. No. 1,394,[illegible]; Oct. 25.
Picture-frame. J. H. Frechette and L. Hachen. No. 1,394,675; Oct. 25.
Picture-machines, Reel for. J. K. E. Torvas. No. 1,395,164; Oct. 28.
Pictures by projection, Method of and apparatus for producing. H. A. Smith. No. 1,394,797; Oct. 26.
Pipe-coupling. B. F. Sunyan. No. 1,394,701; Oct. 25.
Pipe-cutter. I. W. Neunseman. No. 1,394,781; Oct. 26.
Piston. G. V. Harriman. No. 1,394,666; Oct. 25.
Piston. A. N. Martin. No. 1,394,926; Oct. 26.

Piston-ring pot-castings and making piston-rings therefrom. C. A. Marion. No. 1,394,631; Oct. 25.
Piston-ring tool. A. F. Hood. No. 1,395,149; Oct. 28.
Pitman connection. C. Pearson. No. 1,394,724; Oct. 25.
Planting-machine. C. H. Hagy. No. 1,394,584; Oct. 25.
Plastic materials, Apparatus for producing articles from. R. H. Peck. No. 1,395,789; Oct. 28.
Plastic products, Manufacture of a. C. E. H. Leroy and F. M. J. A. Chaperon. No. 1,394,749; Oct. 25.
Plate and template, Combined. [illegible]. F. Boettler and A. C. Schwarzmann. No. 1,394,703; Oct. 25.
Plow. F. J. Altgelt. Nos. 1,394,624-5; Oct. 25.
Plow. J. M. Bowser. No. 1,395,179; Oct. 28.
Plow, Disk. C. W. Michael. No. 1,395,099; Oct. 28.
Plow, Gang. J. B. Bartholomew. No. 1,395,116; Oct. 28.
Plow-lift. H. B. Smith. No. 1,394,767; Oct. 26.
Plow, Power-lift. A. C. Lindgren and E. B. Johnston. No. 1,394,914; Oct. 26.
Plow, Power-operated. C. W. Mott. No. 1,394,939; Oct. 26.
Polishing-machine. M. Tatosian. No. 1,395,166; Oct. 28.
Pot: See—
Metal-melting pot.
Potassium compounds from brines containing the same in association with other chemical compounds, Recovering. C. E. Tolman. No. 1,394,978; Oct. 26.
Power-hammer. C. F. L. E., C. G., and J. T. Redman. No. 1,394,690; Oct. 25.
Power device, Portable. C. F. Lindgren. No. 1,394,564; Oct. 25.
Press: See—
Bolting-press. Printing-press.
Presser-roller-releasing device. G. C. Heach. No. 1,394,656; Oct. 25.
Printing device. R. C. McKenzie-Martyn and F. A. Howard. No. 1,394,921; Oct. 26.
Printing cousin. A. and L. Sautez. No. 1,395,149; Oct. 28.
Printing-plate-trimming machine. J. Simpson. No. 1,394,765; Oct. 25.
Printing-press. A. Anderson. No. 1,395,078; Oct. 28.
Protective device. E. E. F. Creighton and F. R. Shavor. No. 1,394,971; Oct. 26.
Puller: See—
Automobile-puller. Stump-puller.
Pump. P. Dillon. No. 1,394,611; Oct. 25.
Pump governor mechanism. W. F. Cooper. No. 1,394,887; Oct. 25.
Pump or motor. F. Branch. No. 1,394,861; Oct. 25.
Pump, Rotary. C. W. Jackman. No. 1,395,714; Oct. 28.
Purification of sewage, Continuous method for the. L. C. Trent. No. 1,394,698; Oct. 25.
Pyrophoric igniting device. S. Luber and M. Ribets. No. 1,394,917; Oct. 25.
Rack: See—
Display-rack. Pan-rack.
Radiant energy, Apparatus for transmitting. F. A. Kolster. No. 1,394,695; Oct. 25.
Radiator-core. J. W. Miller. No. 1,394,857; Oct. 26.
Radium hydro-emanometer. G. Eunice. No. 1,395,120; Oct. 28.
Rail-anchor, Welded. B. Wolhaupter. (Reissue.) Nos. 15,215-16; Oct. 28.
Rail-bond. H. H. Febrey. No. 1,394,918; Oct. 25.
Rail-bonds, Manufacturing. W. P. Bevard. No. 1,394,694; Oct. 25.
Rail-chair. W. P. Parham. No. 1,394,638; Oct. 25.
Rail-end-supporting rail-joint. B. Wolhaupter. No. 1,394,896; Oct. 26.
Rail-joint. L. Plasha. No. 1,395,136; Oct. 28.
Rail-joints, Means for lubricating. B. Wolhaupter. No. 1,394,897; Oct. 25.
Rail, Prayer-. J. J. McCann. No. 1,394,919; Oct. 25.
Rail tie and fastener. J. C. Bott. No. 1,395,172; Oct. 28.
Rails, Antispreading device for. M. Jicha. No. 1,394,754; Oct. 25.
Railway-crossings, Automatic safety-gate for. C. Esache. No. 1,394,813; Oct. 26.
Railway-tie. J. G. Horan. No. 1,394,731; Oct. 25.
Railway-tie. F. C. Jekel. No. 1,394,624; Oct. 25.
Ram control, Hydraulic-. W. W. MacDonald. No. 1,395,001; Oct. 28.
Razor-blade holder. E. N. Kennedy. No. 1,394,909; Oct. 25.
Razor, Safety-. J. J. Catron. No. 1,394,586; Oct. 25.
Razor, Safety-. E. P. Harshberger. No. 1,394,627; Oct. 25.
Razor, Safety-. A. T. Stewart. No. 1,395,150; Oct. 28.
Receptacle. W. M. Fausset. No. 1,394,817; Oct. 26.
Receptacle-making machine. H. A. and W. H. Inman. No. 1,395,220; Oct. 28.
Recording apparatus. H. H. Hubbard. No. 1,394,733; Oct. 25.
Recording-machine. H. Landsdeel. No. 1,395,121; Oct. 28.
Register: See—
Autographic register.
Registers, Key device for. R. M. Hopkins. No. 1,394,581; Oct. 25.
Registry apparatus. C. C. Johnson. No. 1,394,840; Oct. 25.
Registry system. C. C. Johnson. No. 1,394,839; Oct. 25.
Registry system and register therefor. R. M. Hopkins. No. 1,394,834; Oct. 25.
Registry system and register therefor. C. C. Johnson. No. 1,394,838; Oct. 25.
Registry system, Watchman's. R. M. Hopkins. No. 1,394,832; Oct. 25.
Regulator: See—
Electric feed-water regulator.
Reinforcing and sealing device. J. Januchowsky. No. 1,394,673; Oct. 25.
Rendder. W. H. Collins. No. 1,395,094; Oct. 28.
Reproducer and tone-arm, Automatic universal. C. C. Bender. No. 1,394,804; Oct. 25.
Resilient wheel. E. P. Babb. No. 1,395,085; Oct. 28.
Resistance material. R. W. Stearns. No. 1,394,949; Oct. 25.
Resistance unit. L. Reichold. No. 1,394,967; Oct. 25.
Rim-operating lever, Demountable. E. M. Foster. No. 1,394,880; Oct. 25.
Road-drag. J. A. Gutridge and J. A. Wood. No. 1,394,543; Oct. 25.
Rock-drill stands, Apparatus for blowing bores of. H. L. Oldham and J. L. Barra. No. 1,395,249; Oct. 28.
Roofs product. J. A. De Cew. No. 1,394,610; Oct. 25.
Rubber articles, Treatment of. T. Midgley and R. B. Nagler. No. 1,394,928; Oct. 26.
Rubber floor-cleaner. F. W. Nevins. No. 1,395,058; Oct. 28.
Rubber jars, Process and apparatus for the manufacture of. L. E. Klug. No. 1,394,558; Oct. 25.
Rug-weaving and the product therefrom. D. H. Bread, Jr. No. 1,394,869; Oct. 26.
Sadiron-holder. I. Lee. No. 1,394,698; Oct. 25.
Sample-holder. T. H. Ollesheimer. No. 1,395,055; Oct. 28.
Sash Fastener, Window-. R. P. Little. No. 1,395,047; Oct. 28.
Sawing apparatus. C. V. Fite. No. 1,395,100; Oct. 28.
Sawing-machine, Manually-portable. C. V. Fite. No. 1,395,101; Oct. 28.
Scale, Weighing-. W. G. Templeton. No. 1,394,945; Oct. 26.
Scoring device. J. F. Culver. No. 1,394,715; Oct. 25.
Scrap-bundling machine. J. E. Coe. No. 1,395,041; Oct. 28.
Scraper. A. Smith. No. 1,394,865; Oct. 25.
Screw-cutting tap. J. McFarlane and D. Clelland. No. 1,395,193; Oct. 28.
Screw, Lock-. I. Badois and D. Kaha. No. 1,394,880; Oct. 25.
Screw, Temper-. J. Burns. No. 1,394,710; Oct. 25.
Separator: See—
Centrifugal separator.
Septic-sewage-disposal pipe. W. H. Nicholas. No. 1,394,780; Oct. 26.
Service-box. B. H. Mueller. No. 1,394,754; Oct. 25.
Sewing and other machines, Seat construction for. R. B. McClard. No. 1,395,130; Oct. 28.
Sewing-machine, Hand portable. M. Pratt. No. 1,394,936; Oct. 26.
Shaft-packing. J. Wilkinson. No. 1,394,956; Oct. 26.
Shafts or wells, Sealing. W. E. Emery. No. 1,394,715; Oct. 25.
Sharpener, Pencil-. B. Whitehead. No. 1,395,241; Oct. 28.
Sharpening cutlery, Steel for. E. C. Martin. No. 1,394,927; Oct. 26.
Sheet-feeding apparatus. F. A. Drury. No. 1,394,618; Oct. 25.
Shield, Expansion-. E. W. Marshall. No. 1,394,926; Oct. 26.
Shoe-polishing device. J. O. Murray. No. 1,394,686; Oct. 25.
Shoes and a shoe made by such method, Manufacturing. I. Bishey. No. 1,394,938; Oct. 26.
Shoes, Shank-stiffener for. M. Canzen. No. 1,394,884; Oct. 25.
Shutter. G. I. Vail. No. 1,394,656; Oct. 25.
Shuttle. C. S. Wright. No. 1,394,578; Oct. 25.
Sifter, Flour-. J. H. Dean. No. 1,395,090; Oct. 28.
Sign. A. W. Margileth. No. 1,394,553; Oct. 25.
Sign, Electric. J. E. Lenz. No. 1,394,565; Oct. 25.
Signal apparatus. R. P. Stephens. No. 1,394,899; Oct. 25.
Signal system. R. E. Eagle. No. 1,395,248; Oct. 28.
Signal system, Watchman's tour. C. C. Johnson. No. 1,394,841; Oct. 25.
Sled. J. Leicht, Jr. No. 1,394,629; Oct. 25.
Slide-cover box. A. L. Weis. No. 1,394,591; Oct. 25.
Slitter-feed. D. P. Robinson, J. Coyle, and A. L. Kronquest. No. 1,395,207; Oct. 28.
Soldering-iron. P. Kuhn, L. H. Thomas, and J. G. Spiess. No. 1,394,562; Oct. 25.
Sound-boxes, Tone-modifier for. H. Lebe. No. 1,395,195; Oct. 28.
Sound-reproducing machine. F. Cheney. Nos. 1,395,092-3; Oct. 28.
Spark-plug. O. Allen, Jr. No. 1,394,523; Oct. 25.
Spectacle-frames, Clamp for adjusting. C. M. Haynes. No. 1,394,828; Oct. 25.
Spectacles, Reversible temple member for. E. Reynolds. No. 1,394,943; Oct. 25.
Speed transmission mechanism, Variable. L. J. Campbell. No. 1,394,607; Oct. 25.
Spindle. R. A. Cramlg. No. 1,394,662; Oct. 25.
Spittoon. V. C. Holman. No. 1,395,135; Oct. 28.
Spoke-nipples, Die for making. J. H. Graham and M. S. Tuley. No. 1,395,181; Oct. 28.
Spool or bobbin, Textile. H. D. Clinton. No. 1,395,038; Oct. 28.
Spool-steward. R. W. Smith. No. 1,395,157; Oct. 28.

Spools, &c., Holder for. A. J. Smith. No. 1,895,165; Oct. 25.
Sprayers, Air-charging pump for. H. E. Bennis. No. 1,895,662; Oct. 25.
Spring: See—
End-spring.
Stacher head, Pneumatic. A. P. Determann. No. 1,894,512; Oct. 25.
Stand: See—
Switch-stand. Telescopic stand.
Starter, Motorcycle-engine. A. D. Meelin. No. 1,894,758; Oct. 25.
Steelbelt structure. J. R. Flannery and E. I. Dubbs. Nos. 1,894,549-5; Oct. 25.
Steam-boiler. J. M. Colvin. No. 1,894,269; Oct. 25.
Steam-friction device. F. T. Swanson. No. 1,894,523; Oct. 25.
Steering-wheel lock. A. E. Beasley. No. 1,895,468; Oct. 25.
Step-joints, Making. B. G. Braine. No. 1,894,768; Oct. 25.
Stocking-supporter. H. F. Barri. No. 1,894,852; Oct. 25.
Stopper-extractor. G. Goebel. No. 1,895,166; Oct. 25.
Stove-door fitting. T. J. McWilliams. No. 1,894,683; Oct. 25.
Strap-holder. A. E. Johnson. No. 1,894,906; Oct. 25.
Stump-puller. J. K. Flynn. No. 1,894,544; Oct. 25.
Subaqueous structure and method. D. E. Moran. No. 1,894,571; Oct. 25.
Suction-cleaner. W. W. Rosenfield. No. 1,894,940; Oct. 25.
Superheater. N. T. McKoh. No. 1,895,121; Oct. 25.
Support, Adjustable. A. E. Luschka and J. Folk. No. 1,894,631; Oct. 25.
Suspender, Stocking-. E. A. Gover. No. 1,894,822; Oct. 25.
Switch: See—
Disconnecting-switch. Electric switch.
Switch-operating mechanism. R. V. Collins. No. 1,894,713; Oct. 25.
Switch-stand. L. Hersh. No. 1,895,184; Oct. 25.
Table: See—
Feeding-table. Universal table.
Tables. G. E. Tomlinson. No. 1,895,166; Oct. 25.
Talking-machines, Auxiliary device for. P. C. Hahn. No. 1,894,525; Oct. 25.
Talking-machines, Portable driving mechanism for. W. Scott. No. 1,894,763; Oct. 25.
Tanks, Reactor in. F. H. Kierstead. No. 1,894,910; Oct. 25.
Telegraph system. N. W. Post. No. 1,896,007; Oct. 25.
Telegraphy, Instrument for use in learning. J. B. Smith and C. W. Burger. No. 1,894,766; Oct. 25.
Telephone instrument. H. A. Leise. No. 1,894,568; Oct. 25.
Telephone switching apparatus, Toll-. H. M. Friendly and A. E. Burns. No. 1,894,723; Oct. 25.
Telescopic stand. M. J. Wohl and M. Mayer. No. 1,894,596; Oct. 25.
Tent. I. S. Purcell. No. 1,894,579; Oct. 25.
Therapeutic light, Administering treatments. R. K. Tuttle. No. 1,895,068; Oct. 25.
Thermionic device. G. M. Wright. No. 1,894,601; Oct. 25.
Thermostatic trap. R. N. Trane. No. 1,895,167; Oct. 25.
Thread-gage. R. A. Kenyon. No. 1,895,231; Oct. 25.
Thread-gage. M. H. Thoms. No. 1,894,650; Oct. 25.
Thread-spinning machine. W. B. Conyngham. No. 1,895,223; Oct. 25.
Tie: See—
Railway-tie.
Tile, Hollow-. J. V. Close. No. 1,895,176; Oct. 25.
Time-indicating system. A. L. Sohm. No. 1,894,647; Oct. 25.
Tire-beads, Apparatus for solutioning. T. A. Burns and D. J. Huether. No. 1,895,036; Oct. 25.
Tire, Cushion-. B. C. Swinehart. No. 1,894,589; Oct. 25.
Tire fastener, Vehicle-. W. H. Parham. Nos. 1,895,205-6; Oct. 25.
Tire-making machine. W. B. Harsel and E. Nall. No. 1,895,065; Oct. 25.
Tire-making machine. W. B. Harsel and E. Nall. Nos. 1,895,193-5; Oct. 25.
Tire-mold. W. R. Greer. No. 1,894,547; Oct. 25.
Tire, Pneumatic. W. P. Porter. No. 1,894,787; Oct. 25.
Tire-protecting casing. P. E. Stroud. No. 1,895,162; Oct. 25.
Toller, Automatic. T. F. Perkins. No. 1,894,760; Oct. 25.
Toller, Grain-. T. F. Perkins. No. 1,894,761; Oct. 25.
Tone-arm and amplifier, Combined. V. Misnelli. No. 1,895,053; Oct. 25.
Tonsillotome. J. Sklar. No. 1,894,567; Oct. 25.
Tool. S. A. Davern. No. 1,894,608; Oct. 25.
Toy. A. V. Da Costa. No. 1,894,669; Oct. 25.
Toy pistol. G. A. Wilbur. No. 1,895,073; Oct. 25.
Toy projectile, Aerial. T. G. Hitt. No. 1,894,551; Oct. 25.
Toy, Swing figure. A. V. Da Costa. No. 1,894,670; Oct. 25.
Traction-engine mechanism. W. Turnbull. No. 1,895,019; Oct. 25.
Traction-shoe. J. Messner. No. 1,895,124; Oct. 25.
Traction-wheel, Lug-equipped. G. C. Plummer. No. 1,894,665; Oct. 25.
Tractor-coupling, Automatic safety adjustable. F. M. Button. No. 1,894,759; Oct. 25.
Tractor-frame connection. R. E. Wickersham. No. 1,895,028; Oct. 25.
Tractor-platform. W. J. Bernard. No. 1,894,823; Oct. 25.
Tractor, Track-laying. C. L. Best. No. 1,895,029; Oct. 25.
Transfer-perforator. E. P. Nestlen. No. 1,895,804; Oct. 25.
Transmission-band set. H. P. Turner. No. 1,895,297; Oct. 25.
Transmission-clutch-operating and control mechanism for. [illegible]. No. 1,894,514; Oct. 25.
Transmission-mechanism. C. A. Whitsell. No. 1,894,[illegible]; Oct. 25.
Transmission-operating mechanism for. E. E. [illegible]. No. 1,894,[illegible]; Oct. 25.
Transom, Power operating device for. G. L. Lewis. No. 1,894,[illegible]; Oct. 25.
Trolley-pole-reversing device, Street-. J. W. Brainerd. No. 1,894,[illegible]; Oct. 25.
Truck, Dump-. L. C. McAdams. No. 1,894,[illegible]; Oct. 25.
Truck-operating means. C. C. Kessler. No. 1,894,737; Oct. 25.
Twine-sheet. H. J. Day and G. J. Finn. No. 1,895,177; Oct. 25.
Train stop and signal system. J. W. Renault. No. 1,895,142; Oct. 25.
Trap: See—
Insect-trap.
Trap. O. H. Thompson. No. 1,894,649; Oct. 25.
Trapper's tool. W. B. Lamenby. No. 1,894,122; Oct. 25.
Truck construction, Tractor-. P. E. Holt. No. 1,894,906; Oct. 25.
Trucks, Body for dumping-. J. P. Berg and J. M. Gleason. No. 1,895,038; Oct. 25.
Tubes, Making. E. Palmer. No. 1,894,935; Oct. 25.
Turbine. F. E. Kibbe. No. 1,894,772; Oct. 25.
Twisting-tool. J. Schneider. No. 1,895,152; Oct. 25.
Typewriting-machine. A. J. Dudley. No. 1,894,614; Oct. 25.
Typewriting-machine. H. N. McKay. No. 1,894,632; Oct. 25.
Typewriting-machine. C. E. McNamara. No. 1,895,049; Oct. 25.
Typewriting-machine. O. Woodward. No. 1,894,580; Oct. 25.
Unit, Pumping. G. D. Loud. No. 1,894,916; Oct. 25.
Universal joint. E. H. Lowndes. No. 1,894,749; Oct. 25.
Universal joint. W. A. Whitney. No. 1,894,701; Oct. 25.
Universal table. E. C. Amsden. No. 1,894,526; Oct. 25.
Valve. R. J. Griffin. No. 1,894,805; Oct. 25.
Valve. P. D. Hiltner. No. 1,894,900; Oct. 25.
Valve. W. H. Muntz. No. 1,894,541; Oct. 25.
Valve. K. A. Soderstrom. No. 1,895,018; Oct. 25.
Valve, Blow-off. P. Werts. No. 1,894,687; Oct. 25.
Valve, Electromagnetic. A. M. Olsen. No. 1,895,203; Oct. 25.
Valve-facing tool. J. W. Nipper. No. 1,894,573; Oct. 25.
Valve, Flush-. G. D. Showers. No. 1,894,945; Oct. 25.
Valve for coke-ovens, Air-. W. E. Roberts. No. 1,895,030; Oct. 25.
Valve, Gas-controlling. L. E. Erwin. No. 1,894,615; Oct. 25.
Valve-operating mechanism, Hutch-. A. G. Rapp and L. M. Ewell. No. 1,895,009; Oct. 25.
Valve-silencer. C. D. Strongren. No. 1,895,064; Oct. 25.
Valve stem, Elastic-. P. Mueller and A. C. Schuermann. No. 1,894,756; Oct. 25.
Valve, Switching-. C. W. Kinter and G. Z. Smith. No. 1,894,735; Oct. 25.
Valves, Lift for Sunk-. M. C. Rene. No. 1,894,862; Oct. 25.
Vapor-burner, Inclosed. J. Good. No. 1,894,894; Oct. 25.
Varnished wood surfaces, Compositions for refinishing blemished. E. E. Bridges. No. 1,894,866; Oct. 25.
Vegetables, Apparatus for dipping. W. Dermell. No. 1,894,611; Oct. 25.
Vehicle having both wheels and endless tracks, Apparatus for throwing the wheels into and out of action of a. E. Himsilbe. No. 1,895,144; Oct. 25.
Vehicle-tank structure. A. A. Kramer. No. 1,894,742; Oct. 25.
Vehicle-top. W. P. McCorkindale. No. 1,895,129; Oct. 25.
Vehicle-wheel. E. D. Beaumont. No. 1,894,523; Oct. 25.
Vehicle-wheel. A. B. Ellis. No. 1,894,696; Oct. 25.
Vehicle-wheel. E. G. Kollasch. No. 1,895,189; Oct. 25.
Vehicles, Attachment for motor-. H. B. Hollifield. No. 1,895,111; Oct. 25.
Vehicles, Brake mechanism for motor-. G. W. Carlson. No. 1,894,895; Oct. 25.
Vehicles, Brake-operating means for motor-. B. F. Schmidt. No. 1,894,645; Oct. 25.
Vehicles, Fluid-compressor for motor-. O. E. Hunt. No. 1,894,895; Oct. 25.
Vehicles, Rear wheel for motor-. W. H. Klock. No. 1,894,729; Oct. 25.
Vent, Safety-. M. Wiget. No. 1,894,702; Oct. 25.
Ventilating unit. W. Shurtleff. No. 1,894,946; Oct. 25.
Ventilator apparatus. P. E. Jordan. No. 1,894,755; Oct. 25.
Vessel, Ocean-going. F. A. McRae. No. 1,895,600; Oct. 26.
Vise. S. J. Korteas. No. 1,894,912; Oct. 25.
Wagon-body. J. Speed. No. 1,894,796; Oct. 25.
Washboard. C. B. Wheeler. No. 1,894,901; Oct. 25.
Washing-machine. W. R. Davis. No. 1,895,175; Oct. 25.
Washing-machine Timer for. J. A. Brenner. No. 1,895,084; Oct. 25.
Water-gage. G. H. Sargent. No. 1,895,062; Oct. 25.
Water-heater. J. G. Hawe. No. 1,894,567; Oct. 25.
Water-heater, Electric. C. Kratt. No. 1,894,847; Oct. 25.
Waterer, Stock-. H. B. Gogerty. No. 1,894,617; Oct. 25.
Waxing and polishing device, Floor. E. O. E. Blomquist. No. 1,894,602; Oct. 25.
Weaner. F. E. Johnson. No. 1,895,116; Oct. 25.
Wedge, Splitting-. P. Schultz. No. 1,895,309; Oct. 25.
Wheel: See—
Cushion-wheel. Traction-wheel.
Gear-wheel. Vehicle-wheel.
Resilient wheel.
Wheel attachment. G. P. Knudson. No. 1,894,680; Oct. 25.
Wheel equipment, Demountable-. J. S. Williams. No. 1,894,859; Oct. 25.
Winding-machine. C. W. Hubbard. No. 1,894,732; Oct. 25.
Window. C. B. Wing. No. 1,895,074; Oct. 25.
Windshield-visor. A. F. Winberg. No. 1,894,595; Oct. 25.
Wire, Machine for spirally threading or grooving. J. E. Davies. No. 1,894,716; Oct. 25.
Wire mattress fabric. J. Libow. No. 1,894,848; Oct. 25.
Wireless-telegraph receiver. G. M. Wright. No. 1,894,600; Oct. 25.
Wrapping and unwrapping machine. W. C. Stevens. No. 1,895,063; Oct. 25.
Wreaths, Automatic machine for making metallic frames for. C. Smith. No. 1,894,790; Oct. 25.
Wrench. F. Danielson. No. 1,894,539; Oct. 25.
Wrench. W. F. Miller. No. 1,895,052; Oct. 25.
Wrench. H. T. Roberts. No. 1,894,939; Oct. 25.
Wrench-handles, Making. E. E. Coes. No. 1,895,222; Oct. 25.
X-ray tubes, Increasing the efficiency of. W. Meyer. No. 1,894,569; Oct. 25.

ALPHABETICAL LIST OF DESIGNS.

Animal figure. J. S. Gledhill and W. H. Smith. No. 59,470; Oct. 25.
Badge or button, Service. H. H. Hillyer. No. 59,475; Oct. 25.
Bow-holder. E. E. Hamilton. No. 59,471; Oct. 25.
Bag and flour-bin or similar article, Combined bread-. P. G. Lucas, Jr. No. 59,469; Oct. 25.
Cup. L. H. Baston. No. 59,484; Oct. 25.
Cup. B. Pedolsky. No. 59,512; Oct. 25.
Cup. H. Waldbaum. No. 59,528; Oct. 25.
Chain, Antiskid cross-. A. M. Pederson and J. Murphy. No. 59,510; Oct. 25.
Chain ornament. K. Kostowski. No. 59,493; Oct. 25.
Charm. E. L. Weed. No. 59,529; Oct. 25.
Collar-pin. A. M. Dutcher. No. 59,463; Oct. 25.
Cup, Loving-. K. H. Ober. No. 59,507; Oct. 25.
Doll. E. A. Hutchison. No. 59,491; Oct. 25.
Doll, Dressed. S. de Kasarine and M. de Porohovchikova. Nos. 59,513-14; Oct. 25.
Doll or article of similar nature, Rag. B. E. Feist. No. 59,467; Oct. 25.
Eraser and pencil-sharpener, Combined. L. Zelick. No. 59,530; Oct. 25.
Fabric, Textile. T. W. Estes, Jr. Nos. 59,465-6; Oct. 25.
Fabric, Textile. W. W. Mayer. No. 59,501; Oct. 25.
Figurette. L. L. Arts. No. 59,450; Oct. 25.
Film, Letter-. A. Paulson. No. 59,466; Oct. 25.
Fountain, Sanitary drinking-. A. G. Haws. No. 59,473; Oct. 25.
Game apparatus. J. Zopf. No. 59,531; Oct. 25.
Glove or similar article. Ornamention for a. W. Horn. No. 59,477; Oct. 25.
Goblet. J. O. Balda. No. 59,451; Oct. 25.
Goblet or similar article. T. C. Heisey. No. 59,474; Oct. 25.
Ignition-tester and spark-gap. C. H. Peck. No. 59,509; Oct. 25.
Inkstand-cover. H. Haupt. No. 59,472.
Knitting, Tension device for. S. Abate and J. Buoninconti. No. 59,449; Oct. 25.
Lace. M. E. Dandy. No. 59,454; Oct. 25.
Lamp-casings, Combined hinge and bracket socket-piece for. L. Lapidus. No. 59,496; Oct. 25.
Lamp, Incandescent electric. A. C. Mannweller. No. 59,500; Oct. 25.
Lighting-fixture ornament, H. T. Howell. No. 59,478; Oct. 25.
Lighting-fixture ring. C. A. Smith. No. 59,525; Oct. 25.
Linoleum, oilcloth, or floor-covering. C. M. Post. Nos. 59,515-22; Oct. 25.
Mat-holder. S. C. Mendelsohn. No. 59,503; Oct. 25.
Motor-casing. H. C. Brachtl. No. 59,455; Oct. 25.
Muffler. J. W. Bettmann. No. 59,454; Oct. 25.
Newspaper and parcel holder. P. Jacovini. No. 59,492; Oct. 25.
Perfumer and disinfector, Combined. A. J. Flander. No. 59,468; Oct. 25.
Pin, watch-fob, lapel-button, ring, belt-buckle, seal, pin-button, watchcase, or similar article. F. S. Land. No. 59,497; Oct. 25.
Playing-cards. J. G. Stickney. No. 59,527; Oct. 25.
Plier-handles or similar tools, Ornamentation for. E. W. Myers. No. 59,506; Oct. 25.
Powder-container or similar receptacle. C. S. Humphrey. Nos. 59,479-80; Oct. 25.
Radiator front, Air-cell formation of an automobile-. E. H. Cross. No. 59,457; Oct. 25.
Ring, Finger-. I. Bernstein. No. 59,453; Oct. 25.
Ring, Finger-. H. Rufeisen. No. 59,523; Oct. 25.
Ring or similar article, Finger-. J. Kreisler. No. 59,498; Oct. 25.
Ruler. A. P. Draper. No. 59,462; Oct. 25.
Sewing-machine head. A. D. Smith. No. 59,524; Oct. 25.
Sewing-machine looper. C. A. Dearborn. No. 59,460; Oct. 25.
Sewing-machine presser-foot. C. A. Dearborn. No. 59,461; Oct. 25.
Spoon, fork, or similar article, Handle for a. A. L. Barney. No. 59,452; Oct. 25.
Statuette. L. Davidovits. No. 59,459; Oct. 25.
Tassel, W. J. Gagnon. No. 59,469; Oct. 25.
Tie-holder or similar article. A. Cole. No. 59,456; Oct. 25.
Tire. E. J. Kraft. No. 59,494; Oct. 25.
Tire. E. Phillips. No. 59,511; Oct. 25.
Tire. R. J. Smith. No. 59,526; Oct. 25.
Toy. R. Moody. Nos. 59,404-5; Oct. 25.
Uniform, Military. H. K. Meacham. No. 59,502; Oct. 25.
Vending-machines, Punch-board for. J. W. Hoodwin. No. 59,476; Oct. 25.
Waffle-iron. J. F. Lamb. No. 59,496; Oct. 25.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Antiseptic powder of copper, alum, and zinc. Darbonnier & Degremont. No. 147,536; Oct. 25.
Anti-squeak, corset-steel. Corset-steel dust-tank wax. E. K. Lincoln. No. 147,631; Oct. 25.
Automobile bodies and parts thereof. Pierce-Arrow Motor Car Company. No. 147,668; Oct. 25.
Automobiles. Remington Motors Inc. No. 147,675; Oct. 25.
Automotive and other purposes, Gears for transmitting power for. Timken-Detroit Axle Company. No. 147,705; Oct. 25.
Automotive vehicles and parts thereof, Frames for. Pierce-Arrow Motor Car Company. No. 147,668; Oct. 25.
Bacteria, Soil-. C. F. Pfanenstiel. No. 147,667; Oct. 25.
Battery testers, Electric-. Forest Electric Co. No. 147,661; Oct. 25.
Bedspreads. Marshall Field & Company. No. 147,729; Oct. 25.
Belting, Fabric. Republic Belting Company. No. 147,676; Oct. 25.
Belts, cloth, packings, etc., Leather link. Mitchell and Walsh. No. 147,645; Oct. 25.
Belts for personal wear. Miller Rubber Company. No. 147,642; Oct. 25.
Beverages, Non-alcoholic malt. W. M. Chapman. No. 147,721; Oct. 25.
Beverages and syrup for flavoring same, Non-alcoholic. Sweet Orchard Company. No. 147,702; Oct. 25.
Bicycles, Power-driven. Cyclometer Corporation. No. 147,553; Oct. 25.
Blankets, Woolen. Wyman, Partridge & Co. No. 147,722; Oct. 25.
Bobbin-cleaning machine. Terrell Machine Company. No. 147,704; Oct. 25.
Boots and shoes. Bray & Stanley. No. 147,554; Oct. 25.
Boots and shoes, Polishes and dressings for. J. Magenheim. No. 147,637; Oct. 25.
Brassiere for women; neck and stocking suspenders, &c. J. Patterson, Junr. No. 147,645; Oct. 25.
Brassieres. Boyshform Brassiere Co. No. 147,553; Oct. 25.
Bread. Electrik Maid Bake Shops. No. 147,596; Oct. 25.
Bricks, Refractory. Seaboard Refractories Company. No. 147,734; Oct. 25.
Briquets made from coal. International Coal Products Corporation. Nos. 147,624–5; Oct. 25.
Bun-tins, aluminium saucepans, and stew-pans. F. P. Matthews. No. 147,630; Oct. 25.
Burners, Oil and gas. Oliver Oil-Gas Burner & Machine Co. No. 147,663; Oct. 25.
Calender stack-shafts. W. F. Gammeter Company. No. 147,604; Oct. 25.
Canary-seeds, Mixed. E. Bernstein. No. 147,546; Oct. 25.
Candies. Brown & Haley. No. 147,556; Oct. 25.
Candy. A. G. Abraham Company. No. 147,539; Oct. 25.
Candy. Catawba Candy Company. No. 147,562; Oct. 25.
Candy. G. W. Chase & Son Mer. Co. No. 147,544; Oct. 25.
Candy. Curtiss Candy Co. Nos. 147,579–80; Oct. 25.
Candy. C. H. Edson. No. 147,593; Oct. 25.
Candy. Max Glick Co. No. 147,600; Oct. 25.
Candy. Walter T. Hall & Company. No. 147,618; Oct. 25.
Candy. Robert A. Johnston Company. No. 147,626; Oct. 25.
Candy. New England Confectionery Company. No. 147,657; Oct. 25.
Candy. O'Connor Candy Co. No. 147,660; Oct. 25.
Candles. Will & Baumer Candle Co. No. 147,745; Oct. 25.
Car accessories Certain railway-. Scullin Steel Co. No. 147,663; Oct. 25.
Cards, Playing-. United States Playing Card Company. Nos. 147,735–44; Oct. 25.
Castings, Steel. American Radiator Company. No. 147,535; Oct. 25.
Catarrhal jelly. T. N. Kenyon. No. 147,723; Oct. 25.
Chemical compound, Certain. E. M. & F. Waldo. No. 147,715; Oct. 25.
Chocolate laxative tablet. A. Blackstone. No. 147,548; Oct. 25.
Chocolate, Prepared. Maurice Company. No. 147,640; Oct. 25.
Cleaners, Mechanical spark-plug. W. R. Brewer. No. 147,555; Oct. 25.
Cleansing material for hands and skin. Oliver Oil-Gas Burner & Machine Co. No. 147,663; Oct. 25.
Clock-cases. H. H. Cutting. No. 147,582; Oct. 25.
Clothes-lines. Tribble Cordage Mills. No. 147,738; Oct. 25.
Clothing, Certain articles of. Salt's Textile Manufacturing Company. No. 147,679; Oct. 25.
Clothing for physicians, dentists, &c., Certain articles of. J. J. Stein. No. 147,697; Oct. 25.
Coats, pants, vests, overcoats. Artcraft Clothes, Inc. No. 147,540; Oct. 25.
Collets, thread-cutting dies, &c. Union Twist Drill Company. No. 147,707; Oct. 25.
Construction materials. Raymond Granite Company. No. 147,674; Oct. 25.
Cotton goods in the piece. E. M. Holt Plaid Mills. No. 147,642; Oct. 25.
Cotton piece goods. Wyman, Partridge & Co. No. 147,721; Oct. 25.
Cotton piece goods, Woven. Neuss, Hesslein & Co. No. 147,655; Oct. 25.
Cotton-seed meal. Ashcraft-Wilkinson Company. No. 147,543; Oct. 25.
Cough-syrup. C. J. Morin. No. 147,647; Oct. 25.
Diaper-cloth. Sears, Roebuck and Co. No. 147,694; Oct. 25.
Dresses. Cos Bee Gee Dress Co. No. 147,568; Oct. 25.
Dresses. A. Harris. No. 147,623; Oct. 25.
Dresses, coats, suits, and frocks, Women's. Nancy-Fann Frocks. No. 147,650; Oct. 25.
Drinks, Soft. Crescent Bottling Co. No. 147,578; Oct. 25.
Drying-machines. E. W. Hanschue. No. 147,619; Oct. 25.
Engines, and certain accessories therefor, Internal-combustion. Svenska Aktiebolaget Nobel-Diesel. No. 147,701; Oct. 25.
Essences, fruit-oils, and syrups for food-flavoring. Chemical Works Flora. No. 147,566; Oct. 25.
Farm implements. T. C. Power Company. No. 147,670; Oct. 25.
Fats, Cooking-. Procter and Gamble Company. No. 147,672; Oct. 25.
Feed, Horse. Omaha Alfalfa Milling Company. No. 147,731; Oct. 25.
Feeds, Manufactured horse, hog, &c. Curtiss Grain Corporation. No. 147,581; Oct. 25.
Feeds, Stock. B. L. Robertson. No. 147,677; Oct. 25.
Fiber board. Agasote Millboard Co. No. 147,531; Oct. 25.
Fishing-lines. Wm. H. Hoegee Co. No. 147,727; Oct. 25.
Flour, Self-rising wheat-. Schoening-Koenigsmark Milling Co. No. 147,681; Oct. 25.
Flour, Wheat-. Bech Van Sicien & Co. No. 147,710; Oct. 25.
Flour, Wheat-. Commercial Union of America. Nos. 147,572–3; Oct. 25.
Flour, Wheat-. Nebraska Consolidated Mills Company. No. 147,655; Oct. 25.
Food, Certain. United States and South America Corporation. No. 147,708; Oct. 25.
Food, Certain articles of. Helpy Salty. No. 147,690; Oct. 25.
Fruits, Fresh citrus. Chester C. Foogate Co. No. 147,602; Oct. 25.
Fuel-vaporizers. G. C. Baker. No. 147,542; Oct. 25.
Furnaces, Hot-air. Robert Gordon, Incorporated. No. 147,611; Oct. 25.
Furniture, Certain articles of. General Fireproofing Co. No. 147,606; Oct. 25.
Garters. A. Stein & Company. No. 147,696; Oct. 25.
Ginger-ale. Primalt Products Company. No. 147,671; Oct. 25.
Glass, Raw. La Societe Anonyme Bernard, Verrerie des Anciens Etablissements de Bagneaux. Nos. 147,629–30; Oct. 25.
Glue. Menite Water Proof Glue Company. No. 147,644; Oct. 25.
Gowns, ladies' suits, wraps, hats, &c. Bobe, Inc. No. 147,549; Oct. 25.
Grease for soap-making. Consolidated Rendering Co. No. 147,725; Oct. 25.
Grinding and polishing stones. Acme Abrasive Company. No. 147,530; Oct. 25.
Gum arabic, mother-of-pearl shells, ivory, and dari-seed. Sudan Import and Export Company. No. 147,709; Oct. 25.
Hair-nets. Samstag & Hilder Bros. No. 147,680; Oct. 25.
Hairpins. B F K Manufacturing Company. No. 147,547; Oct. 25.
Hatbands, beltings, braids, &c. Columbia Ribbon Co. No. 147,570; Oct. 25.
Heaters, Exhaust-gas motor-car. Perfection Heater & Manufacturing Co. No. 147,732; Oct. 25.
Heaters, Gas water-. F. W. Shuell. No. 147,736; Oct. 25.
Heel and toe plates. Booth Brothers (Dial Foundry). No. 147,551; Oct. 25.
Hoes, cultivators, and plows, Combination wheeled. J. E. Gilson. No. 147,608; Oct. 25.
Hose. B. F. Goodrich Company. No. 147,610; Oct. 25.
Hose, underwear, and knitted sweaters. Brummel & Mendelsohn. Nos. 147,557–8; Oct. 25.
Hose, Women's and misses'. I. Michelsohn. No. 147,641; Oct. 25.
Hosiery. Dollfus Mieg & Cie. Societe Anonyme. Nos. 147,587–8; Oct. 25.
Hosiery. Louis Stix Co. No. 147,699; Oct. 25.
Hosiery. Wearweve Fabrics Corporation. No. 147,715; Oct. 25.
Hosiery, Dyed. W. Raven & Co. No. 147,673; Oct. 25.
Ice-cream and butter. Columbia Dairy Products Company. No. 147,569; Oct. 25.

Jewelry, Articles of. Warnaba & Hay Co. No. 147,714; Oct. 25.
Jewelry, badges, emblems, medals and trophies, Certain. Thomas D. Gard Co. No. 147,604; Oct. 25.
Jewelry, Certain. H. L. Lapp Co. No. 147,646; Oct. 25.
Knits and test sharpener. E. Chaney & Son. No. 147,606; Oct. 25.
Knitted underwear. Union Mills. No. 147,705; Oct. 25.
Lanterns, portable lamps, &c., Gasoline and kerosene. National Stamping & Electric Works. No. 147,597; Oct. 25.
Lead and lead oxids, White. National Lead Company of California. No. 147,554; Oct. 25.
Leather and cut laces of leather, Lace. Graton & Knight Manufacturing Company. No. 147,613; Oct. 25.
Leather substitute. Woodward & Cooley. No. 147,720; Oct. 25.
Machines and tools for electrical workers, Certain. Dumb Electric Company. No. 147,559; Oct. 25.
Machines for forming polygonal articles, gears, &c. Stevenson Gear Company. No. 147,602; Oct. 25.
Marble and cut stone. Georgia Marble Company. No. 147,607; Oct. 25.
Mattresses. Jesse A. Schwarz, Inc. No. 147,668; Oct. 25.
Mayonnaise, mince-meat, salted peanuts. Heinz, Morton & Company. No. 147,621; Oct. 25.
Medicinal, chemical, and pharmaceutical preparations, Certain. National Drug Stores Corporation. No. 147,665; Oct. 25.
Medicine, Rheumatism. Anti-Uric Company. No. 147,598; Oct. 25.
Metals, Ferrous. Duquesne Steel Foundry Company. Nos. 147,629–31; Oct. 25.
Meter, Watch, and industrial jewels, &c. H. D. Steel. No. 147,694; Oct. 25.
Milking-machines and parts thereof. Universal Milking Machine Company. No. 147,709; Oct. 25.
Mucilage. Burton & Skinner Printing and Stationery Company. No. 147,560; Oct. 25.
Neckties or bows. A. B. Chauncey. No. 147,565; Oct. 25.
Paper bags. Victory Bag & Paper Co. No. 147,711; Oct. 25.
Paste. Liverpool Adhesive Paste Co. No. 147,683; Oct. 25.
Pastries, Cream-filled. Davis System Bakery. No. 147,566; Oct. 25.
Peanuts in the shell. Franklin Peanut Company. No. 147,603; Oct. 25.
Pearls, Artificial. C. E. Edson. No. 147,562; Oct. 25.
Pencils, Lead-. Wahl Company. No. 147,713; Oct. 25.
Phenol glycerin for burns. Darbonnier & Saperstein. No. 147,554; Oct. 25.
Phonograph-cabinets and wooden stands and supports for same. Sears, Roebuck and Company. No. 147,695; Oct. 25.
Piano-player rolls. I. M. Bloch. No. 147,550; Oct. 25.
Piece goods and blankets, Certain. North Billerica Co. No. 147,658; Oct. 25.
Pictures, Motion-. Educational Film Corporation of America. No. 147,594; Oct. 25.
Pipes or electric conduits to carry electric wires. Steel Duct Company. No. 147,695; Oct. 25.
Planes. Stanley Works. No. 147,698; Oct. 25.
Pneumatic pressure systems for water &c. Monarch Engineering Company. No. 147,645; Oct. 25.
Powders, Tooth-. E. A. Walters. No. 147,719; Oct. 25.
Preservative and polish for automobile-bodies, pianos, &c. C. A. Mundon. No. 147,648; Oct. 25.
Publication, Monthly. Barnes-Ross Company. No. 147,543; Oct. 25.
Publication, Periodical. McGraw-Hill Company. No. 147,636; Oct. 25.
Publication published monthly. California State Automobile Association. No. 147,561; Oct. 25.
Pyrophoric igniting device. Welsbach Company. No. 147,718; Oct. 25.
Radiators, Automobile-. Ohio Expert Auto Radiator Company. No. 147,661; Oct. 25.
Rings, Finger-. J. B. Bowden & Company. No. 147,552; Oct. 25.
Rings, Finger-. N. M. Kirshner. No. 147,627; Oct. 25.
Rings, White-sapphire finger-. S. Gutter. No. 147,615; Oct. 25.
Rubber cement, Composition. Lord & Brown. No. 147,635; Oct. 25.
Rubber patches for automobile-tube repairmen, &c. Hadley Bros.-Uhl Company. No. 147,616; Oct. 25.
Rubber patches, solid and transparent cement. R. M. Hadley. No. 147,623; Oct. 25.
Sandpaper and other sand products. David Penn & Co. No. 147,553; Oct. 25.
Scenery. A. W. Obergfell. No. 147,689; Oct. 25.
Seed, Cotton. R. L. Bennett & Sons. No. 147,723; Oct. 25.
Seeds. Geo. P. Burrage & Son. No. 147,726; Oct. 25.
Sewing Tables. Cone-Blish Printed Company. No. 147,571; Oct. 25.
Shears, Sheep, mule, grass, and pruning. W. G. Hatmaker. No. 147,585; Oct. 25.
Shoes, Certain. Alaska Chemical Company. No. 147,582; Oct. 25.
Slides for watch-guards, sautoirs, &c. C. H. Sherman. No. 147,625; Oct. 25.
Stamps, Time-. A. Harearvich & Co. No. 147,595; Oct. 25.
Steel, Black sheets of rolled soft. American Sheet & Tin Plate Company. No. 147,536; Oct. 25.
Sugar. Corn Products Refining Co. No. 147,577; Oct. 25.
Surfacing and finishing composition, Certain. R. L. Smith. No. 147,680; Oct. 25.
Talking-machines, phonographs, talking-machine needles, &c. Sonora, Inc. No. 147,727; Oct. 25.
Tennis and playing courts, pavements, and promenades. En-Tout-Cas Company. No. 147,597; Oct. 25.
Thermos-jackets. Bastian-Morley Co. No. 147,544; Oct. 25.
Tie-clasps, collar-holders, &c. Taunton Pearl Works. No. 147,703; Oct. 25.
Timepieces. F. W. Alter. No. 147,523; Oct. 25.
Tire carriers, Spare-. L. Rothschild. No. 147,678; Oct. 25.
Tires and tubes, Rubber. Dayton Rubber Manufacturing Co. No. 147,724; Oct. 25.
Toilet preparations, Certain. Weichsel Barber Supply Co. No. 147,716; Oct. 25.
Tools, Certain. Stanley Works. No. 147,692; Oct. 25.
Tow-lines, Automobile. Smith-Monark Company. No. 147,696; Oct. 25.
Trees, Prune-. Oregon Nursery Company. No. 147,664; Oct. 25.
Tripoli flour. American Tripoli Company. No. 147,537; Oct. 25.
Trunks, suitcases, and traveling-bags. Rogers & Madison Trunk Corporation. No. 147,735; Oct. 25.
Twine, Binder-. Grain Growers Grain Company. No. 147,612; Oct. 25.
Valves, Gas and air. American Radiator Company. No. 147,594; Oct. 25.
Valves, Thermostatically-operated. Estate Stove Company. No. 147,596; Oct. 25.
Varnish, Cask Paint & Varnish Company. Nos. 147,574–6; Oct. 25.
Vegetable extract. Mohr Food Products, Inc. No. 147,644; Oct. 25.
Vermin-exterminator, Adhesive. L. J. Lippmann. No. 147,632; Oct. 25.
Watches and their parts. Fabrique d'Horlogerie Electa Gallet & Co. S. A. Nos. 147,590–600; Oct. 25.
Watches, watch-cases, watch-movements. B. Gutter & Sons. No. 147,614; Oct. 25.
Water gages and columns, certain gage-glass specialties. S. S. P. Manufacturing Company. No. 147,691; Oct. 25.
Waterproof coats. Pearson Brothers. No. 147,666; Oct. 25.
Wigs. National Hair Goods Co. No. 147,653; Oct. 25.
Window valances, panels, and drape-shades. National Decorative Company. No. 147,651; Oct. 25.
Worsteds in the piece. Ardress Worsted Co. No. 147,539; Oct. 25.
Woven, knitted, netted, textile, and pile fabrics in the piece. Cheney Brothers. No. 147,567; Oct. 25.
Wrenches. D. C. Munro. No. 147,649; Oct. 25.

ALPHABETICAL LIST OF LABELS.

"All over the World Brand, Molasses." (For Confectionery.) A. Molasses & Sons. No. 23,585; Oct. 25.
"Almond Cream Lotion." (For Shaving and Soothing Lotion for Use After Shaving. Also upon Soothings for Withering and Softening the Face, Neck, and Arms, and for Relieving Roughness, Chaffing, Irritations, Windburn, Sunburn, and Chapped Skin or Lips.) Harriet Hubbard Ayer. No. 23,511; Oct. 25.
"Assorted Bitter Sweet Chocolates." (For Boxes Containing Assorted Bitter-Sweet Chocolates.) Milwaukee Paper Box Company. No. 23,564; Oct. 25.
"Barbasol Face Powder." (For Face-Powder.) F. Barbasol. No. 23,530; Oct. 25.
"Barbarosa." (For Tin Cans Containing Malt and Hop Extracts.) Red Top Malt Extract Co. No. 23,569; Oct. 25.
"Bloo Green Evaporated Milk." (For Containers for Condensed Milk.) Kent Beverage Company. No. 23,550; Oct. 25.
"Brigandi's Great Blood Purifier." (For a Tonic for the Blood.) C. Brigandi. No. 23,532; Oct. 25.
"Buddy." (For Lozenges.) L. K. Small Company. No. 23,576; Oct. 25.
"C-O-D." (For Packages Containing Toasted Cereal.) Fred C. Gillet. No. 23,535; Oct. 25.
"C. P. Co's. Concrete Products Enduring as The Pyramids." (For Specimens of Concrete Bricks, Concrete Blocks, and other Concrete Building Materials.) Concrete Products Co. No. 23,529; Oct. 25.
"Café de Luxe." (For Coffee.) Sibley-Almy Co. Inc. No. 23,574; Oct. 25.
"Can Buddy Brand Sifted Early June Peas." (For Cans Containing Early June Peas.) Geo. H. Draper, Jr. No. 23,552; Oct. 25.
"Candies." (For Boxes Containing Candies.) Milwaukee Paper Box Company. No. 23,565; Oct. 25.
"Circe Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 23,566; Oct. 25.
"Cold-Klet." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,561; Oct. 25.
"Colonial Cake." (For Cake.) The Colonial Biscuit Company. Nos. 23,527–9; Oct. 25.
"Curtis St. Louis." (For Advertising Purposes for Machinery and Equipments.) Curtis & Co. Mfg. Co. No. 23,531; Oct. 25.
"D. B. Hickey's Healing Liquid." (For Containers for a Remedy for Cuts and Sores of All Kinds.) D. B. Hickey. No. 23,539; Oct. 25.
"Dextro Malto No. 2." (For Mead's Dextri-Maltose.) Mead Johnson & Co. No. 23,549; Oct. 25.
"Dr. Morrison's Mouth Cleanser." (For a Preparation for Cleansing the Mouth and Teeth.) J. P. Morrison. No. 23,567; Oct. 25.
"E Twist." (For Tobacco.) Christian Peper Tobacco Co. No. 23,536; Oct. 25.
"Eau de Beauté (Water of Beauty)." (For Face-Astringent and Skin-Tighteners.) Harriett Hubbard Ayer. No. 23,512; Oct. 25.
"First-Prize." (For Bread.) H. V. Walters. No. 23,580; Oct. 25.
"French Kid Plate Marked." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) B. Hopper. No. 23,546; Oct. 25.
"French Poplin." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) B. Hopper. No. 23,542; Oct. 25.
"Grads (Grades)." (For Tile and Porcelain Cleaner.) The Grady Mfg. Co. No. 23,537; Oct. 25.
"Grand Aroma." (For Cigars.) Freiberg & Gorman. No. 23,535; Oct. 25.
"Gold Standard." (For Cotton Piece Goods.) Sanger Bros. Inc. No. 23,572; Oct. 25.
"Golden Cup." (For Coffee.) Sibley-Almy Co. Inc. No. 23,575; Oct. 25.
"Hair-Root-Oil." (For Hair Dressing and Shampoo.) A. J. Krank. No. 23,554; Oct. 25.
"Harriet Hubbard Ayer." (For Toilet Cream, Toilet Powder, Rouges, Lotions, Enamels, Skin and Tissue Builders, Depilatories, Skin-Astringents, and Many other Toilet Preparations.) Harriet Hubbard Ayer. Nos. 23,516–9; Oct. 25.
"High Test No-Boil Malt Extract." (For Cans Containing Liquid Malt Extract.) High Test Malt Extract Co. No. 23,540; Oct. 25.
"Home Maid." (For Cans of Liquid Malt Extract.) Harry Corcoran. No. 23,530; Oct. 25.
"Hopper's True Linen." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) B. Hopper. No. 23,544; Oct. 25.
"Hopper's True Linen Pastel Gray." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) B. Hopper. No. 23,545; Oct. 25.
"Joy Blox for the Kiddies." (For Nested Toy Blocks.) J. Brofe. No. 23,577; Oct. 25.
"La Fredrick." (For Cigars.) W. Fredrick. No. 23,534; Oct. 25.
"Liquor Alexandrini Hydrochlorici." (For Remedy for Overcoming Local Congestions to Check Local Hemorrhages, as a General Circulatory Stimulant, and for the Relief of Asthmatic Paroxysms.) C. Harden, Jr. No. 23,521; Oct. 25.
"Look for the Gingham Package." (For Biscuit-Flour.) H. Jesse Co. No. 23,546; Oct. 25.
"Marshmallow Cream Bananas." (For Confectionery-Containers.) Fred W. Amend Co. No. 23,563; Oct. 25.
"Miss Hunter's Fruit Nut Chocolates." (For Candy.) (Miss) H. D. Hunter. No. 23,547; Oct. 25.
"Mocmel Sham Pagne." (For Non-Casual, Malt-less, Non-Alcoholic Beverage Sold as a Soft Drink.) G. U. Lignbuich. No. 23,556; Oct. 25.
"Mule." (For Cigarettes.) R. S. Linton. No. 23,555; Oct. 25.
"Neuman's Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,560; Oct. 25.
"No Smoking." (For Advertising Purposes for Piston-Rings.) Rose Bros. Co. The. No. 23,570; Oct. 25.
"Our National Mayonnaise." (For Mayonnaise.) B. Alperin. No. 23,506; Oct. 25.
"Ovaltina." (For Tins Containing Ovaltina.) Wander Company, The. No. 23,561; Oct. 25.
"Peacock Instant Coffee." (For Powdered Coffee.) Empire Food Products Company. No. 23,523; Oct. 25.
"Presto Metal Polish." (For Bottled Metal-Polish.) Mrs. K. Camp. No. 23,524; Oct. 25.
"Pride of Ohio." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,563; Oct. 25.
"Prunola." (For Containers or Cartons Containing Prunola, a Preparation of Sundried Olives and Prunes.) Carque Pure Food Company. No. 23,520; Oct. 25.
"Redibak." (For Malt Extract.) G. Loewus & Co. No. 23,557; Oct. 25.
"Right House, Right Goods, Right Prices." (For Hosiery, Underwear, and Knit Goods.) Schott Brothers. No. 23,573; Oct. 25.
"Rivet Shank Buttons." (For Buttons.) Appelbee & Neuman, Inc. No. 23,510; Oct. 25.
"Rouge Compact 400." (For Rouge in the Form of Compacts.) Harriet Hubbard Ayer. No. 23,512; Oct. 25.
"Rouge Compact 200." (For Rouge in the Form of Compacts. Harriet Hubbard Ayer. No. 23,514; Oct. 25.
"Rouge Compact 300." (For Rouge in the Form of Compacts.) Harriet Hubbard Ayer. No. 23,515; Oct. 25.
"Rouge Compact 500." (For Rouge in the Form of Compacts.) Harriet Hubbard Ayer. No. 23,516; Oct. 25.
"Rouge Compact 600." (For Rouge in the Form of Compacts.) Harriet Hubbard Ayer. No. 23,517; Oct. 25.
"Seven Point." (For Hosiery.) Whitehead Hosiery Mills Inc. No. 23,582; Oct. 25.
"Some!!!" (For Cake.) H. V. Walters. No. 23,579; Oct. 25.
"Sonora." (For Cigars.) C. B. Henschel Manufacturing Company. No. 23,588; Oct. 25.
"Supreme Quality Bon Ton Corsets, the Most Fashionable and Perfect Fitting Corsets." (For Boxes in Which Corsets are Packed.) Royal Worcester Corset Co. No. 23,571; Oct. 25.
"Tch U Blocks." (For Educational Blocks.) E. Bratton. No. 23,522; Oct. 25.
"T. N. O. Metal Polish." (For Metal-Polish for Silver, Brass, Copper, and Nickel.) G. W. Nevin. No. 23,568; Oct. 25.
"Trappe Fancy Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,562; Oct. 25.
"Vista Linen." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) B. Hopper. No. 23,541; Oct. 25.
"Vitacoco." (For Cocoa-Powder.) Knickerbocker Chocolate Company. No. 23,552; Oct. 25.
"Vitamins Chocolate." (For Sweet Chocolate.) Knickerbocker Chocolate Company. No. 23,551; Oct. 25.
"Wabash Valley." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,560; Oct. 25.
"Wallers Relief for Headache and Neuralgia." (For Headache Powders and Tablets.) H. S. Waller. No. 23,578; Oct. 25.
"Walnut Crullers." (For Crullers.) G. O. Kolb. No. 23,553; Oct. 25.
"White Mule Tire-Patch." (For Can Containing Automobile-Tire Patch.) White Mule, Inc. No. 23,583; Oct. 25.
"Winona Linen." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) B. Hopper. No. 23,543; Oct. 25.

ALPHABETICAL LIST OF PRINTS.

"A New Travel Creation." (For Advertising Purposes for Wardrobe-Trunks.) Hartmann Trunk Company. No. 5,805; Oct. 25.

"An Added Room—Subtracted Rent." (For Advertising Purposes for Rat-Destroyers.) Kroehler Mfg. Company. No. 5,813; Oct. 25.

"Cape-Cod." (For Advertising Purposes for Waterproof Outer Garments.) New York Mackintosh Clothing Co. No. 5,815; Oct. 25.

"Dri-Boy." (For Advertising Purposes for Waterproof Outer Garments.) New York Mackintosh Clothing Co. No. 5,813; Oct. 25.

"Dri-Girl." (For Advertising Purposes for Waterproof Outer Garments.) New York Mackintosh Clothing Co. No. 5,814; Oct. 25.

"Every drop awakens flavor Heinz Vinegars Fresh Vegetables and Salads." (For Advertising Purposes for Heinz Vinegars.) H. J. Heinz Co. No. 5,808; Oct. 25.

"Every drop awakens flavor Heinz Vinegars Heed's not to lagging appetites." (For Advertising Purposes for Heinz Vinegars.) H. J. Heinz Co. No. 5,806; Oct. 25.

"Extra Early Osage Mastodon." (For Advertising Purposes for Maltedon.) Jerome B. Rice Seed Co. No. 5,819; Oct. 25.

"Grennan's More Than 50 Varieties." (For Advertising Purposes for Cakes.) Grennan Cake Corporation. No. 5,804; Oct. 25.

"Haynes Character Cars." (For Advertising Purposes for Automobiles.) Haynes Automobile Company. No. 5,807; Oct. 25.

"Improved Asphalt Slab." (For Advertising Purposes for Asphalt-Shingle Roofs.) Asbestos Roofing Company. No. 5,802; Oct. 25.

"Jumped Into Fever Dreams of His Flavor." (For Advertising Purposes for Breakfast Food.) Breakfast Revenue Syndicate. No. 5,809; Oct. 25.

"Kids Quality." (For Advertising Purposes for Children's Garments.) A. Sonneborn Sons & Co. No. 5,820; Oct. 25.

"Olive Oil Makes Glossy Hair." (For Advertising Purposes for Shampoos.) The Palmolive Company. No. 5,810; Oct. 25.

"Preventing Gastric-Grumble." (For Advertising Purposes for Gastric-Grumble.) Hartmann Trunk Company. No. 5,806; Oct. 25.

"Say:—Ever Been a Cane!" (For Advertising Purposes for Ginger-Ale and Ginger-Ale Extract.) James Vernor Company. No. 5,811; Oct. 25.

"Sleep Lizzie Chicks From Dying." (For Advertising Purposes for Bee-Chol, a Poultry Medicine for Treatment of White Diarrhea, Cholera, Roup, Canker, Colds, and Indigestion.) Vaydis Chemical Corp. No. 5,822; Oct. 25.

"The Girl Women Envy and Men Admire." (For Advertising Purposes for Palmolive Soap.) The Palmolive Company. No. 5,812; Oct. 25.

"The Secret of Charm Never Changes." (For Advertising Purposes for Palmolive Soap.) The Palmolive Company. No. 5,817; Oct. 25.

"Unexcelled Window Shades." (For Advertising Purposes for Window-Shades.) The Weiss & Klar Company. No. 5,818; Oct. 25.

"United Fuel & Supply Co. Building Supplies By Truck Train or Boat." (For Advertising Purposes for Building Supplies.) United Fuel Supply Company. No. 5,821; Oct. 25.

"Vanderbilt's Bird Song Restorer." (For a Bird Tonic and Song Restorer.) F. T. Horton Co. Inc. No. 5,810; Oct. 25.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Alkaline antiseptics. W. N. Eisendrath. No. 150,961; Oct. 25.
Alley stools. Carpenter Steel Company. No. 134,568; Oct. 25.
Alloys for dental castings, Gold. Geo. A. Wiechert Co. No. 143,146; Oct. 25.
Alloys, Non-ferrous and ferrous. F. W. Steinacher. No. 140,651; Oct. 25.
Babbitting-jigs for gasolene-engine connecting-rods, &c. O. A. Bremer Co. No. 132,162; Oct. 25.
Bakery Machinery, equipment, and supplies. Jaburg-Miller Co. No. 129,682; Oct. 25.
Bar-lawyer beans, bird-seed flour, &c. Citizens' Wholesale Supply Company. No. 147,150; Oct. 25.
Baking-powder, cream of tartar, soda. J. A. Folger & Co. No. 150,665; Oct. 25.
Bi-dynamo-chromes, chromatic screens, &c. G. S. White. No. 140,652; Oct. 25.
Biscuit. National Biscuit Company. Nos. 149,289-91; Oct. 25.
Bluing compound. W. E. Martin. No. 151,015; Oct. 25.
Bottles, Hot-water. R. Palmer. No. 143,775; Oct. 25.
Bread. Ward Baking Company. No. 148,634; Oct. 25.
Bread, Celery. F. J. Barringer. No. 147,910; Oct. 25.
Brooms. Amboy Products Co. No. 140,082; Oct. 25.
Brushes, Rubber & Celluloid Products Company. No. 143,838; Oct. 25.
Bunion-protectors. G. A. Stetson. No. 147,263; Oct. 25.
Bushings and bearings. American Bronze Corporation. No. 147,178; Oct. 25.
Cake. Ward Baking Company. No. 148,631; Oct. 25.
Cambrics. H. A. Donnelly. No. 148,720; Oct. 25.
Candles. George Ziegler Co. No. 149,845; Oct. 25.
Can-openers. United Royalties Corp. No. 143,775; Oct. 25.
Candy. Bunte Brothers. No. 149,675; Oct. 25.
Candy. B. Loon. No. 150,466; Oct. 25.
Canned goods, coffee, tea, &c. Ben I. Look Stores Co. No. 135,229; Oct. 25.
Cereal, hominy, oatmeal, &c., Breakfast. Cereal Products Co. No. 147,088; Oct. 25.
Cheese. O. Roth. No. 149,027; Oct. 25.
Cheese and cheese preserve. Kaeserport A. G. Goldbach (Emmenthal). No. 139,804; Oct. 25.
Cheese, Swiss. Alpina Cheese Co. No. 137,694; Oct. 25.
Chocolate, cocoa, &c. Chocolats fins Zurcher S. A. No. 140,164; Oct. 25.
Cigars. Vicente Nieto & Bros. No. 135,210; Oct. 25.
Cigars. Wilcox Grocery Company. No. 144,760; Oct. 25.
Cleaner for clothing, furniture, floor, &c. E. J. Barringer. No. 151,534; Oct. 25.
Coal. Cherokee Fuel Company. No. 148,644; Oct. 25.
Cotton piece goods, Woven. Nevan, Hanauer & Co. No. 152,714; Oct. 25.
Culinary and kitchen utensils, Wire. Wickwire Spencer Steel Corporation. No. 148,656; Oct. 25.
Cutting and forming tools, Metal. Darwin & Milner. No. 118,434; Oct. 25.
Cutting-tools for metal-working machines. Baker-Waechter Company. No. 132,344; Oct. 25.
Dental gold and gold solder, gold plates, &c. J. F. Jelenko & Co. No. 144,725; Oct. 25.
Dental polishers. L. A. Young. No. 142,846; Oct. 25.
Dentifrices. Penslar Company. No. 150,793; Oct. 25.
Dentifrices—namely, tooth-paste. E. W. Rennie. No. 127,222; Oct. 25.
Douches, Vaginal. Sanitant Manufacturing Company. No. 141,610; Oct. 25.
Dusters, Feather. Hayes Duster & Brush Co. No. 148,837; Oct. 25.
Egg candlers. E. Urban. No. 131,675; Oct. 25.
Eye-water. H. H. Slaughter. No. 148,515; Oct. 25.
Fabrics in the piece, Pile. Sidney Blumenthal & Co. No. 152,948; Oct. 25.
Fabrics in the piece, Pile. Sidney Blumenthal & Co. No. 152,979; Oct. 25.
Fabrics, Worsted and woolen textile. Holden-Leonard Company. No. 152,013; Oct. 25.
Fasteners, Metallic. Upson Company. No. 149,985; Oct. 25.
Feed, Poultry. C. L. Teutsberg. No. 147,478; Oct. 25.
Filters and refrigerators. John Dunn, Son and Co. No. 140,874; Oct. 25.
First-aid kits. W-M Mfg. Co. No. 145,892; Oct. 25.
Food, Cereal breakfast. Ward Baking Company. No. 148,636; Oct. 25.
Food, Laxative. Grain Packing Company. No. 126,838; Oct. 25.
Forgings, castings, stampings, steels, Drop-. J. H. Williams & Co. No. 149,574; Oct. 25.
Flour, Wheat-. American Hominy Company. No. 120,808. Oct. 25.
Flour, Wheat-. Weber Flour Mills Corporation. No. 146,857; Oct. 25.
Flour, Wheat-. City Mills Company. No. 123,656; Oct. 25.
Flour, Wheat-. Collins Flour Mills. No. 149,387; Oct. 25.

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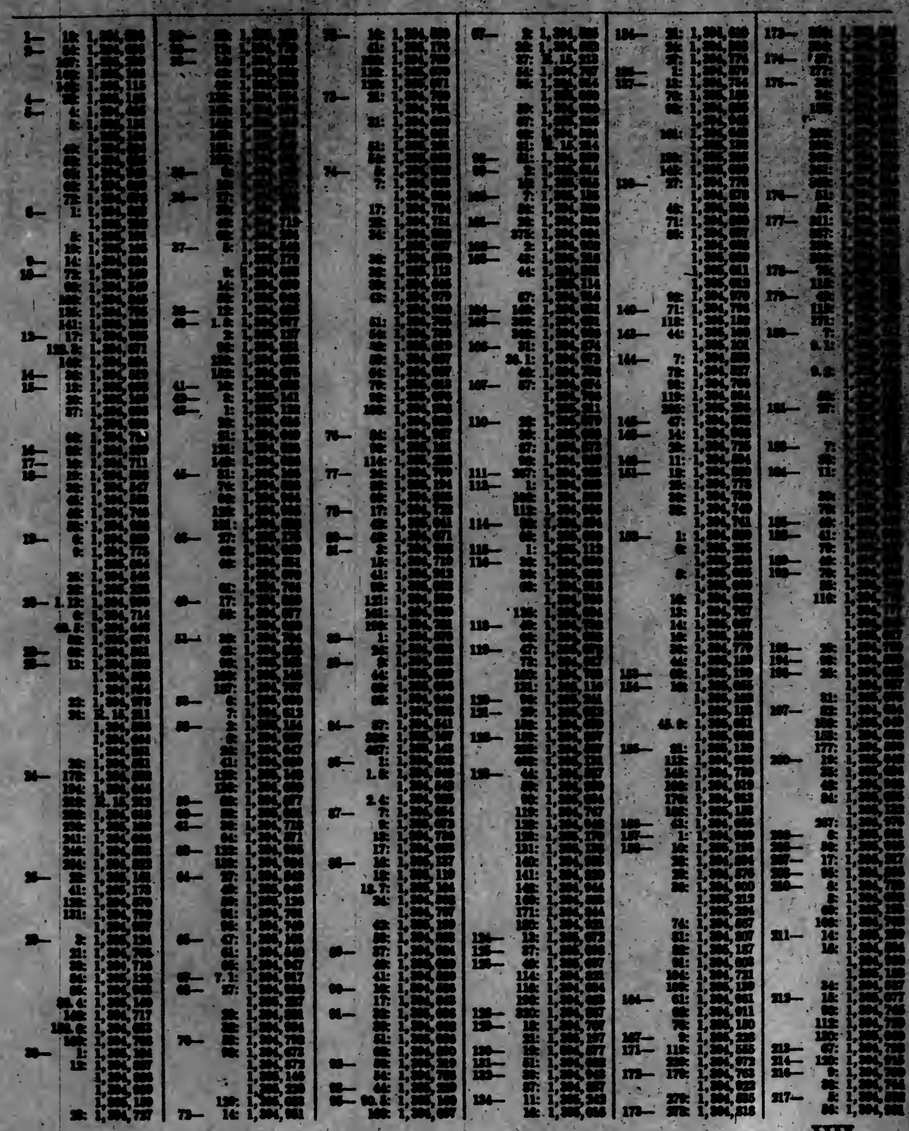
[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

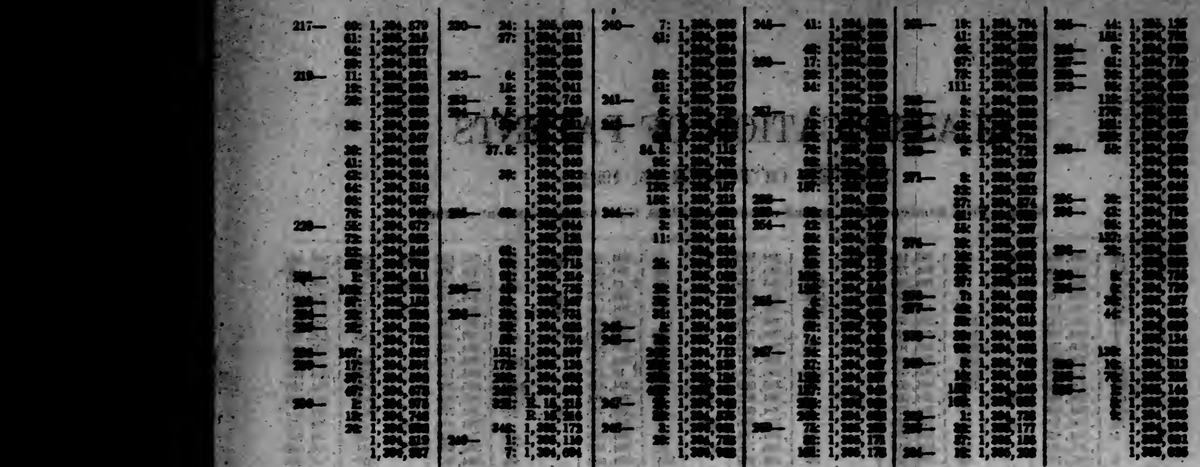
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Flour, Wheat-. Peago-Wall Milling Company. Nos. 149,769-70; Oct. 25.
Flour, Wheat-. Red Star Milling Company. No. 150,026; Oct. 25.
Flour, Wheat-. Wallace & Tierman Co. No. 147,802; Oct. 25.
Fluid-compressor outfits, wrenches, pliers, &c. Au-To Compressor Co. No. 146,021; Oct. 25.
Fruit, Artificial. J. H. Emery. No. 145,744; Oct. 25.
Game, Parlor baseball. Champion Game Company. No. 150,950; Oct. 25.
Games, Cardboard golf. F. M. Lewis, Jr. No. 148,767; Oct. 25.
Gas-engines, pumping-powers, stuffing-boxes, &c. Oil City Engine and Power Company. No. 144,735; Oct. 25.
Hair-dye. F. R. Marcel. No. 150,906; Oct. 25.
Hair-nets. M. Kopsak. No. 151,965; Oct. 25.
Hair-nets. Lorraine Manufacturing & Importing Company. No. 150,546; Oct. 25.
Hair-nets. S. A. Rider Company. No. 152,346; Oct. 25.
Hair-nets. Western Bottle Manufacturing Company. No. 152,874; Oct. 25.
Hair-nets and handkerchiefs. Gilman Bros. No. 149,226; Oct. 25.
Hair-tonic. J. Potaschnik. No. 150,704; Oct. 25.
Hammers and drills and repair parts thereof. Chicago Pneumatic Tool Company. No. 146,529; Oct. 25.
Heating appliances, Chemical. L. J. Wertheimer. No. 146,699; Oct. 25.
Hops. P. Sonnenschein. No. 152,220; Oct. 25.
Inhalers. Arrow Company. No. 148,477; Oct. 25.
Inhalers. Lobl Manufacturing Company. No. 147,789; Oct. 25.
Insecticide. W. H. Johnson. No. 150,683; Oct. 25.
Lace piece goods, Cotton. Societe Francaise De Cotons a Coudre (Societe Anonyme). No. 150,478; Oct. 25.
Lace piece goods, Cotton. Societe Francaise De Cotons a Coudre (Societe Anonyme). No. 150,482; Oct. 25.
Laxative cold compound. Cooper Medicine Co. No. 150,849; Oct. 25.
Laxatives and purgatives. D. B. Latimer. No. 151,013; Oct. 25.
Lenses, Optical. F. Hoffa. No. 148,886; Oct. 25.
Liniment and preparation for regulating the liver of humans and offsetting colic in cattle and for certain chicken diseases. E. B. Spencer. No. 148,769; Oct. 25.
Machinery, tools, &c. Railway Specialty Company. No. 133,751; Oct. 25.
Madras, Cotton. Berkeley Company. No. 150,178; Oct. 25.
Malt extract. Decatur Brewing Co. No. 120,869; Oct. 25.
Matches. C. F. Conrad. No. 145,153; Oct. 25.
Medicinal compound for rheumatic ailments. B. Uhlmann. No. 150,883; Oct. 25.
Medicinal preparation for wounds, burns, sores, colds, &c. Nodol Medicine Co. No. 151,066; Oct. 25.
Medicinal preparations. Trust Estate of Adolph C. Meyer, deceased. No. 144,293; Oct. 25.
Medicine for colds, grippe, influenza, &c. Organ-Iron Company. No. 150,877; Oct. 25.
Metal products consisting of ferrous and non-ferrous castings. H. Kramer & Co. No. 146,914; Oct. 25.
Nautical speedometers, logs, and distance-recorders. Hamilton & Hansell. No. 146,766; Oct. 25.
Oats, (for food.) John Thompson & Sons. No. 147,053; Oct. 25.
Oats, wheat flakes, farina, Rolled. Northern Flour Mills Company. No. 129,859; Oct. 25.
Oil-well pulling machinery. Iron King Manufacturing Company. No. 148,026; Oct. 25.
Picture films, Motion-. Texas Film Company. No. 151,026; Oct. 25.
Photographic developing-paper. Haloid Company. No. 146,910; Oct. 25.
Pictures, Motion-. Super-Art Productions. No. 147,130; Oct. 25.
Pipe and pipe-couplings. Youngstown Sheet & Tube Co. No. 146,615; Oct. 25.
Piston-rings. Spyrocel Manufacturing Company. No. 143,017; Oct. 25.
Powder-puffs. J. J. Cosin. No. 146,870; Oct. 25.
Powder-puffs. J. J. Cosin. No. 146,874; Oct. 25.
Powder-puffs. Kolter-Fry Manufacturing Company. No. 140,596; Oct. 25.
Powder-puffs. Marcus & Smith. No. 149,511; Oct. 25.
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Powder-puffs. Morris, Mann & Reilly. Nos. 147,506-7; Oct. 25.
Powder-puffs. New York Merchandise Company. No. 146,842; Oct. 25.
Powder-puffs. I. J. Totlow. No. 145,924; Oct. 25.
Powder, Tooth-. T. Sands. No. 150,706; Oct. 25.
Preparation for coughs, croup, asthma, &c. George F. Hogan & Ruben Blundell. No. 150,808; Oct. 25.
Preparation for eye brows and lashes. A. T. Wilson. No. 147,763; Oct. 25.
Preparation for producing permanent waves in the hair, Oily. F. R. Marcel. Nos. 150,909-10; Oct. 25.
Preparation for the treatment of mange, eczema, and all skin diseases, &c. Kirbarine Co. No. 150,691; Oct. 25.
Preparation to reduce and deodorize perspiration. Odri Company. No. 150,764; Oct. 25.
Razors, scissors, knives, files, &c. W. & S. Butcher Limited. No. 135,128; Oct. 25.
Remedy for constipation, diseases of the stomach, &c. Dr. L. Plantier. No. 150,823; Oct. 25.
Remedy for diseases of the respiratory organs. Dr. D. Jayne & Son. No. 150,899; Oct. 25.
Respiration-testing and gas-administration apparatus. E. I. McKesson. No. 147,445; Oct. 25.
Salve for wounded, sore, or galled horses. H. D. Fenton. No. 148,796; Oct. 25.
Sanitation process and organic-waste-reduction systems and parts thereof. Cobwell Corporation. No. 148,716; Oct. 25.
Scales, Weighing-. Mason, Davis & Company. No. 148,828; Oct. 25.
Seeds used as food for birds. Kaempfer's Incorporated. No. 133,735; Oct. 25.
Sewage-treatment systems and parts thereof. Sanitation Corporation. No. 148,854; Oct. 25.
Shoes, slippers, and moccasins, Leather. M. B. Lingenfelder Co. No. 143,444; Oct. 25.
Silk piece goods. Aimé Baboin & Cie. No. 131,373; Oct. 25.
Silk piece goods. Empire Silk Company. No. 151,760; Oct. 25.
Silk piece goods. H. R. Mallinson & Co. No. 152,272; Oct. 25.
Silk piece goods. Rogers & Thompson. No. 152,717; Oct. 25.
Silk piece goods, Broad-. Duplan Silk Corporation. Nos. 152,915-18; Oct. 25.
Soap. Globe Soap Company. No. 152,678; Oct. 25.
Soap. Michigan Specialty Co. No. 152,485; Oct. 25.
Soap, Castile-. D. A. Eberly. No. 135,141; Oct. 25.
Soap, Toilet. Los Angeles Soap Co. No. 152,268; Oct. 25.
Spectacle and eyeglass frames and mountings. New Jersey Optical Co. No. 147,306; Oct. 25.
Springs, Vehicle-. F. V. Cooke. No. 144,017; Oct. 25.
Steel rails. Bethlehem Steel Company. No. 148,120; Oct. 25.
Steel, Sheet-. Bethlehem Steel Company. No. 148,195; Oct. 25.
Steels, Tool-. Carpenter Steel Company. Nos. 134,568-70; Oct. 25.
Syringe, Venereal. W. J. Covell. No. 138,800; Oct. 25.
Thread, Cotton. Societe Francaise De Cotons a Coudre (Societe Anonyme). No. 150,476; Oct. 25.
Thread, Cotton. Societe Francaise De Cotons a Coudre (Societe Anonyme.) No. 150,486; Oct. 25.
Tire-valves. A. Charpillon. No. 146,526; Oct. 25.
Tires and inner tubes. Black Hawk Tire & Rubber Company. No. 141,747; Oct. 25.
Toothbrushes. Irvin-Smith Company. No. 149,006; Oct. 25.
Toothbrushes. P. B. F. Williams. No. 140,623; Oct. 25.
Toy balloons. Richard D. Bakrow & Son. No. 143,153; Oct. 25.
Toys, Animal. E. B. H. Taggart. No. 132,668; Oct. 25.
Urn-bags or woven tea-containers and connected spout-hoods. G. H. Stockman, Jr. No. 138,520; Oct. 25.
Waterproof dressing for automobile-tops, leather, and textiles. L. E. Davis. No. 138,200½; Oct. 25.
Windshield-cleaners. La Vietes Manufacturing Co. No. 143,935; Oct. 25.
Woolen, cotton, and silk fabrics, velvets, velveteens. Finkelstein & Sons. No. 140,433; Oct. 25.
Woolen piece goods. Forstmann & Huffmann Company. Nos. 152,610-15; Oct. 25.
Woolen piece goods. Forstmann & Huffmann Company. Nos. 152,617-19; Oct. 25.
Yeast. Yeastole Company. No. 149,732; Oct. 25.

CLASSIFICATION OF PATENTS

ISSUED OCTOBER 25, 1921.

NOTE.—First number—class, second number—subclass, third number—patent number.





OFFICIAL GAZETTE

OF THE

UNITED STATES PATENT OFFICE

VOLUME 292

NOVEMBER

1921

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[Decisions of the United States District Courts are indicated by the letter (b) and of the United States Circuit Court of Appeals by the letter (d).]

ERRATA.

1,395,890, page 30, first claim, line 5, strike out the words "in place of."

1,395,446, page 44, in heading, assignment, name of assignee, for "Berlin Mills Company" read *Brown Company*.

1,397,616, page 497, in heading, after residence of the patentee, insert *assignor to American Radiator Company, Chicago, Ill., a Corporation of New Jersey*.

Patents Nos. 1,295,243 to 1,296,002.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

Vol. 292—No. 1. TUESDAY, NOVEMBER 1, 1921. Price—$5 per year.

[PUBLISHED NOVEMBER 7, 1921.]

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, $5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For this latter, address the Commissioner of Patents, Washington, D. C.

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Trade-Marks	167	No. 147,748 to No. 147,914,	inclusive.
Labels	31	No. 28,684 to No. 28,714,	inclusive.
Prints	4	No. 5,624 to No. 5,628,	inclusive.
Reissues	2	No. 15,217 to No. 15,218,	inclusive.
Total	985		

Attorneys.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., October 24, 1921.

This Office has been advised, under date of October 22, 1921, by the Chief Clerk of the Department of the Interior, of the disbarment from practice before the Department, its bureaus and offices, of Horace L. B. Atkinson, of Washington, D. C. The order of disbarment is dated October 20, 1921.

THOMAS E. ROBERTSON,
Commissioner of Patents.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., October 24, 1921.

This Office has been advised, under date of October 22, 1921, by the Chief Clerk of the Department of the Interior, of the disbarment from practice before the Department and its bureaus and offices of Leo Grandin Grossman, of Washington, D. C. The order of disbarment is dated October 20, 1921.

THOMAS E. ROBERTSON,
Commissioner of Patents.

Adverse Decisions in Interference.

PATENT No. 1,287,530.

On September 27, 1921, a decision was rendered that Johann Heinrich Herman Voss was not the first inventor of the subject-matter covered by claims 3, 9, and 10 of his Patent No. 1,287,590, subject, "High-speed valves," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,287,644.

On September 26, 1921, a decision was rendered that Percy D. Brewster was not the first inventor of the subject-matter covered by claims 2, 5, and 11 of his Patent No. 1,287,644, subject, "Apparatus for printing cinematographic films," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,266,474.

On September 28, 1921, a decision was rendered that France Mers was not the first inventor of the subject-matter covered by claims 1 and 2 of his Patent No. 1,266,474, subject, "Crystallizing-receptacle," and no appeal having been taken within the time allowed such decision has become final.

Interference Notice.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., October 21, 1921.

Golden Laxative Coffee Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of Goode & Dunkle, 19 and 21 Pike street, Covington, Ky., and Charles I. Cook, 501 Main street, Menominee, Mich., for registrations of trade-marks and trade-mark registered March 8, 1898, No. 27,883, to Golden Laxative Coffee Co., Ayer, Mass., and a notice of such declaration sent by registered mail to said Golden Laxative Coffee Co. at the said address having been returned by the post-office undelivered, notice is hereby given that unless said Golden Laxative Coffee Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

Disbarred Attorneys.

It is hereby directed that any person who has been disbarred from practice before the Patent Office by order of the Commissioner will be denied access to the files of the Office, either in his own capacity or as the representative of any other person or firm.

Amendment Under Rule 78.

The entry of an amendment under Rule 78 takes much more time than would its entry during the regular prosecution of the case, since the docket clerk must get the file from the Issue and Gazette Division, send it to the Examiner for report, submit it to the Commissioner, notify the applicant of the Commissioner's action, and if the petition is granted return the file to the Examiner for entry of the amendment.

Attorneys are therefore requested to take all possible steps to obviate the necessity of the presentation of such an amendment.

4715

Condition of Applications Under Examination at Close of Business October 22, 1921.

Room No.	Divisions, Examiners, and subjects of inventions. (Oldest new case, Nov. 2; oldest amended, Dec 22.)	Oldest new application and oldest not taken up by present examining officer for action. New.	Amended.	No. of applications awaiting action.
214	1. LOEFFLER, F. S., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	May 23	May 14	706
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Preparation; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Jan. 10	Mar. 6	1,706
175	3. RICH, WM. J., Electric Heating and Illuminating; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Jan. 10	Dec. 24	855
294	4. MERRITT, A. D., Conveyors; Conveyors, Fluid-Current; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Nov. 10	Apr. 30	1,092
167	5. MACNAB, J. F., Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Jan. 5	Feb. 4	928
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Mould Coating Compositions; Plastic Compositions; Substance Preparation.	Feb. 11	June 17	946
312	7. JARBOE, C. G., Cameras and Tents; Optics; Photography; Velocipedes.	Mar. 25	June 6	1,923
121	8. CLIFT, J. W., Beds; Chairs and Seats; Folding-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Stove Furniture; Supports.	July 18	July 25	670
231	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Nov. 12	June 27	1,043
295	10. MITCHELL, T. H., Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Apr. 6	July 20	1,146
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	July 15	July 23	391
263	12. PIERCE, F. F., Measuring Elements.	Mar. 21	July 20	1,126
220	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear-Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Nov. 24	Sept. 1	1,088
223	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Jan. 5	Aug. 2	860
269	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Nov. 2	Feb. 16	1,709
111	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony.	Nov. 16	Feb. 12	1,761
207	17. RAFTER, G. S., Casting, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufacture; Printing; Type Casting; Sheet Material Assorting or Folding; Sheet Feeding or Delivering; Type Setting.	Mar. 8	June 17	1,052
220	18. PORTER, H. E., Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Dec. 31	Feb. 26	1,811
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Dec. 15	Apr. 11	980
170	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Lockers; Safes; Undertaking.	Apr. 16	June 1	1,451
242	21. THURBER, W. L., Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Mar. 17	June 6	665
249	22. COLWELL, J. H., Ammunition; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making.	May 26	Aug. 8	534
217	23. GROESBECK, W. D., Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Jan. 6	June 11	809
144	24. DARBY, J. J., Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines.	Jan. 24	June 6	1,049
215	25. LIGHTFOOT, J. H., Agitating; Bottle-Sealing; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	July 26	Aug. 3	300
108	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime Mover Dynamo Plants.	Mar. 21	May 16	796
214	27. ANDERSON, L. S., Threading; Brushing and Scrubbing; Laundry; Washing Apparatus.	Apr. 2	June 1	1,573
235	28. BENSON, A. R., Internal-Combustion Engines.	Jan. 26	May 4	1,522
147	29. MORRIS, E., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Feb. 11	Aug. 1	785
182	30. SULLIVAN, M. E., Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines.	Mar. 17	Aug. 8	1,220
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Nov. 17	Jan. 5	2,006
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange.	Jan. 1	July 5	986
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Apr. 11	May 19	742
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	Aug. 10	Aug. 16	300
57	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	July 25	July 17	656
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	May 13	May 3	1,531
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers.	Feb. 16	Feb. 25	1,574
378	38. IDE, G. B., Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	May 13	May 13	1,206
220	39. COWLES, A. W., Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Nov. 9	Feb. 21	1,980
279	40. OBERLIN, J. J., Bagging; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Jan. 10	Mar. 25	2,312
125	41. BROWN, J. L., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels.	Apr. 20	Apr. 7	862
114	42. CUTTING, H. O., Electrical Conduits and Mountings; Electric Signaling; Electric Lamps.	Dec. 7	Jan. 3	1,802
262	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Dec. 20	Jan. 20	1,997
253	44. SHAFFER, C. H., Air-Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration Ships.	Jan. 11	Sept. 1	492
267	45. GILES, A. H., Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices.	Mar. 24	May 27	1,190
233	46. WOLCOTT, C. L., Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Mar. 12	May 6	1,175
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid Pressure Brake and Analogous Systems.	Feb. 12	May 25	1,119
13	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications.	Jan. 26	Dec. 22	1,866
136	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, Jr.			
	Trade-Marks	Dec. 7	Aug. 1	3,701
	Designs	Jan. 14	Mar. 17	2,234
	Labels and Prints	Oct. 1	Oct. 5	228

Total number of applications awaiting action, excluding Trade-Mark division, 87,067; Trade-Mark division, 6,163.

PATENTS

GRANTED NOVEMBER 1, 1921.

1,395,243. **SAFETY STARTING-CLUTCH FOR MOTOR-VEHICLES.** SHIKICHI ABE, Highland Park, Mich. Filed Dec. 20, 1919. Serial No. 346,421. 2 Claims. (Cl. 123—185.)



1. In a safety starting clutch for motor vehicles, the combination with an engine shaft and a starting crank for turning over said engine shaft; of a bearing, a rear outer clutch member fixed in said bearing, a rear inner clutch member fixed on said engine shaft and journaled in said rear outer clutch member, a front inner clutch member loose on said engine shaft and adapted to be engaged by said starting crank and shifted rearward to interlock with and turn said rear inner clutch member when said starting crank is pushed rearwardly and turned in a clockwise direction, a coiled expansion spring encircling said engine shaft between said rear and front inner clutch members to maintain said members normally separated, a front outer clutch member rotatable on said front inner clutch member and held for longitudinal movement therewith to interlock with said rear outer clutch member and be temporarily held stationary thereby, and a ratchet mechanism associated with said front inner and outer clutch members permitting of said front inner clutch being turned clockwise by said starting crank while said front outer clutch member is held by said rear outer clutch member, said ratchet mechanism causing said front inner and outer clutch members to rotate counterclockwise together and recede under the action of said spring from said rear inner and outer clutch members when said engine shaft rotates counterclockwise.

1,395,244. **BEARING.** GUSTAF E. ANDRE, Chicago, Ill. Filed July 31, 1920. Serial No. 400,337. 3 Claims. (Cl. 64—62.)



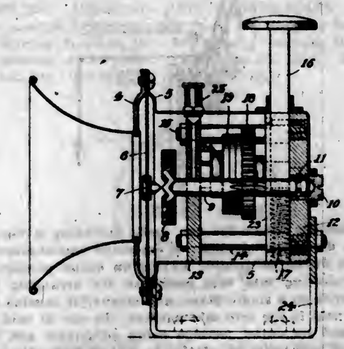
3. A bearing structure including elongated rollers; inner and outer raceways for said rollers that are disposed between said raceways; and a retaining cage for said rollers, said cage including connected end rings to prevent endwise displacement of said rollers and a plurality of U-shaped portions included in the connections that unite said rings and distributed in the space between the raceways to space the rollers apart, the base of each U-shaped portion being between adjacent rollers, connections between said end rings also including parts in the zone of the rollers and upon one side of the narrowest spaces between the rollers, said parts being wider than said narrowest spaces and also wider than the roller spacing parts of the connections between the end rings.

1,395,245. **CYLINDER-REAMER.** NORMAN ANDERSON, Duluth, Minn. Filed Feb. 6, 1920. Serial No. 356,674. 5 Claims. (Cl. 51—190.)



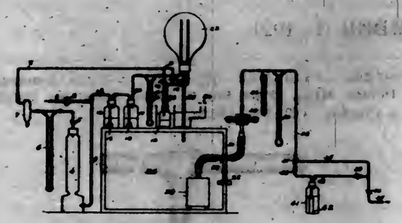
1. The combination with a reamer of the class described comprising a cylindrical body portion carrying an abrasive substance and an axially disposed supporting member, of an actuating member pivotally attached to the supporting member for the purpose described.

1,395,246. **WARNING-SIGNAL.** EMANUEL AUFIERO, Brooklyn, N. Y. Filed Mar. 30, 1918. Serial No. 225,673. 10 Claims. (Cl. 116—145.)



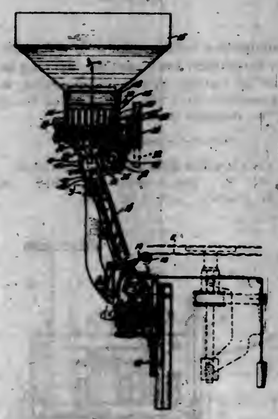
1. In a hand operated mechanical horn the combination of a vibratory diaphragm, a cam for vibrating the diaphragm, a shaft for said cam, a transverse frame member at an appreciable distance from said cam for supporting said shaft, and an adjustable thrust bearing for said shaft comprising an inclosing sleeve, and a replaceable key for holding said sleeve in fixed longitudinal relation with said shaft, the longitudinal freedom of movement of said shaft being sufficient to permit replacement of said key from the exterior of the horn.

1,395,247. METHOD AND APPARATUS FOR GENERATING SMOKE AND TESTING POROUS MATERIAL THEREBY. ALLEN ABRAMS, Butler, Pa. Filed Jan. 14, 1919. Serial No. 271,112. 13 Claims. (Cl. 73—51.)



1. In a method of absorbing smoke, breaking up by means of porous material the gas films surrounding the smoke particles and subjecting the so-treated particles to the action of an absorbent.

1,395,248. CORK-FEEDING DEVICE. THOMAS ALLATT, Westfield, N. J., assignor to International Cork Company, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 27, 1920. Serial No. 377,010. 3 Claims. (Cl. 142—20.)



1. A feeding device for flat corks, including a hopper having a discharge opening, an extension communicating with said discharge opening having an outlet passage, a roller projecting into said extension for arranging the corks therein in a single plane, and means for causing the corks to pass in file into said passage, the size of said extension and its outlet passage being adjustable and the position of said roller in relation to a fixed portion of said extension being variable.

1,395,249. AIRCRAFT. JOHN BAUER, Detroit, Mich. Filed Feb. 7, 1919. Serial No. 275,821. 5 Claims. (Cl. 244—21.)

1. In a device of the class described, an air craft having a movable closure; a parachute housed beneath the closure; a first lever fulcrumed on the air craft and including a part coöperating with closure; a second lever fulcrumed on the first lever and comprising means for engaging the parachute releasably; means under the control



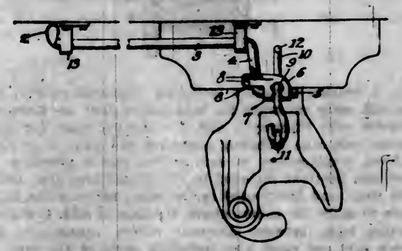
of an operator for actuating both levers thereby to open the closure and to open the parachute; and a flexible connection between the parachute and the aircraft.

1,395,250. COUPLING-OPERATING MECHANISM. ARTHUR J. BARNEY, Cleveland, Ohio, assignor to The National Malleable Castings Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 12, 1919. Serial No. 303,679. 5 Claims. (Cl. 213—59.)



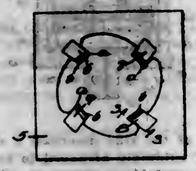
1. In coupler operating mechanism, a rod extending transversely of the car and engaging a lock lifter, supports on the car for the rod, one of said supports being mounted to swing during the lifting of the lock and to move bodily during buff and draft.

1,395,251. COUPLING-OPERATING MECHANISM. ARTHUR J. BARNEY, Cleveland, Ohio, assignor to The National Malleable Castings Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 18, 1919, Serial No. 324,661. Renewed Sept. 16, 1921. Serial No. 501,184. 5 Claims. (Cl. 213—59.)



1. In coupler operating mechanism, a rod extending transversely of the car and having at its inner end a forward extension terminating in an angled portion, a clip secured upon such angled portion, a link secured to a coupler lock lift, said link having an extension engaging the clip in an apertured portion thereof, said link upon actuation by the uncoupling rod being adapted to raise the lock lift and being free during radial and longitudinal movements of the coupler to move relatively to said uncoupling rod.

1,395,252. THREAD-CUTTING DIE. EDWARD E. BECK, Chicago, Ill., assignor to Crown Die and Tool Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 15, 1919. Serial No. 330,682. 5 Claims. (Cl. 10—120.)



5. A solid thread cutting die having a central opening, radially disposed chasers projecting into said opening, the cutting edges of the threads on each chaser being arranged on an arc of a circle corresponding to the pipe being threaded, the teeth of the threads varying transversely of the threaded face of each chaser, the advancing threads on each chaser being countersunk circumferentially thereof.

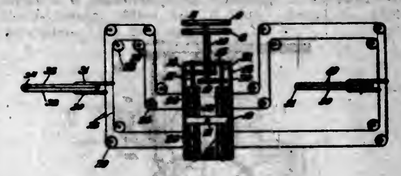
1,395,253. JOINT FOR METAL CULVERTS OR THE LIKE. GEORGE A. BELLAMY, Billings, Mont. Filed Mar. 31, 1920. Serial No. 370,214. 3 Claims. (Cl. 137—75.)



1. A structure of the character described including two overlapping sections, one of said sections being formed with a perforation in its wall and on its inside face being provided with a relatively narrow and thick tongue extending parallel to the wall but spaced therefrom and formed with a perforation aligning with the perforation in the section, said tongue having a base of equal thickness with the body of the tongue and attached to the wall of the section, the other section being formed with a perforation adapted to register with said perforations in the tongue and wall of the first named section, the perforation of the tongue being screw-threaded, and a screw-threaded fastening device passing through the perforation in the two sections and into the screw-threaded perforation in the tongue and having a relatively large head.

1,395,254. AEROPLANE-CONTROL SYSTEM. ARCHIBALD BLACK, Brooklyn, N. Y., assignor, by mesne assignments, of one-half to L-W-F Engineering Company, Inc., College Point, Long Island, N. Y., a Corporation of New York. Filed Mar. 21, 1917. Serial No. 156,338. 6 Claims. (Cl. 244—23.)

6. In combination, an aeroplane having two pairs of separable controlling planes, means for operating the planes comprising a pair of rolls each having cables connected to each set of planes, and independent hand-wheels



having concentric shafts respectively connected to said rolls.

1,395,255. ALINEMENT DEVICE FOR MANIFOLD-SHEETS. ALICE SNITJER BURKE, New York, N. Y. Filed June 4, 1920. Serial No. 386,617. 4 Claims. (Cl. 202—29.)



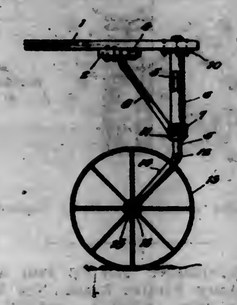
1. A combined aligning and holding device for manifold sheets for typewriting machines, comprising a trough-shaped member having one closed end and one open end, and a window between said ends.

1,395,256. MILEAGE-PERIOD-SIGNALING DEVICE. CHARLES S. BURTON, Oak Park, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Jan. 28, 1921. Serial No. 440,604. 9 Claims. (Cl. 116—115.)



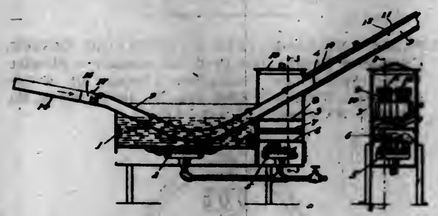
1. In combination with a vehicle-operated odometer train, a signaling device for indicating the requirements of the vehicle or its motor, comprising a target for displaying or concealing the signal; a tripping device for operating the target consisting of a part rotated by the odometer train, and a dog coöperating therewith spring-actuated for riding on said rotating part during signal-concealing position of the target, and for being tripped by said part for moving the target into signal-displaying position; said dog being operatively connected with the target for movement of each by the other in the shifting of the target from one position to the other.

1,395,257. CASTER-WHEEL. CHARLES H. CLARK, Easton, Me. Filed June 9, 1920. Serial No. 387,706. 1 Claim. (Cl. 280—84.)



The combination with a draft beam, and a cross beam secured thereto, of a wear plate secured to the under side of the draft beam in advance of the cross beam, a vertically disposed tube bearing at its upper end against the said wear plate, braces secured to the cross beam at the center and at the ends thereof and converging downwardly therefrom, a clamp carried by the lower ends of the brace and securing the lower end of said tube, a spindle extending through and freely rotatable in said tube, a stop collar on the spindle immediately below the lower end of the tube, an axle, an obliquely disposed laterally offset connection between the axle and the lower end of the spindle below said collar, and a wheel mounted upon said axle.

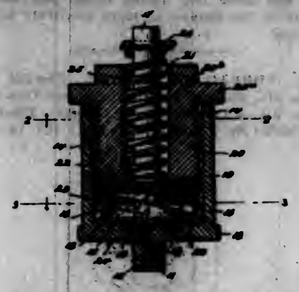
1,395,258. PARAFFINING-MACHINE. HARRY L. CLARK, Norwood, and JAMES H. SOWER, Cincinnati, Ohio, assignors, by mesne assignments, to The Southern Ohio Tin Can Company, Winton Place, Ohio, a Corporation of Ohio. Filed July 26, 1919. Serial No. 313,563. 7 Claims. (Cl. 91—55.)



1. A device of the character described comprising a means for maintaining a molten bath of paraffin or the like, for impregnating cartons, and a conduit leading down into the bath and thence upwardly for an extended distance, said conduit being formed to engage the cartons without friction so as to permit the advancement of a complete charge of cartons by an insertion of an additional carton therein, and of a length sufficient to dry out to the required degree, each carton passing through the same when impelled therethrough by the available hand labor for insertion of cartons one by one.

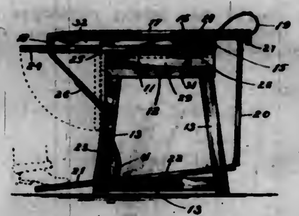
4. A paraffining machine or the like, comprising an element for providing a molten bath, a stove, and a conduit leading upwardly therefrom, said stove communicating with the interior of the conduit, means for conducting the articles to be paraffined down through the bath and thence through the conduit, said means being adapted to drain back into the bath from the conduit and describing a curved path through the molten bath.

1,395,259. SELF-LOCKING GREASE-PLUG. FRANK R. COOK, Amarillo, Tex. Filed Mar. 22, 1921. Serial No. 454,935. 16 Claims. (Cl. 184—48.)



1. In a device of the kind described a cup for holding grease, a plunger rotatably arranged in said cup, a plug slidably and non-rotatably mounted in said cup in front of the plunger and movable into and out of contact with the plunger, and means for preventing rotation of the plunger in one direction relative to the plug when said parts are in contact with each other.

1,395,260. DELINEATING APPARATUS. LEONARD S. CRONE, New York, N. Y. Filed Nov. 4, 1920. Serial No. 421,706. 5 Claims. (Cl. 101—126.)



1. In an apparatus for delineating pictures and designs, an operating table suitably mounted upon a frame, an extension rack and stencil holding member hinged to the table, a foot operated actuating means connected to the rack to raise and lower same, and a resilient member interposed between the hinged extensible rack and foot operating means.

1,395,261. AMUSEMENT DEVICE. JOHN J. CULLINAN, Bradford, Pa. Filed Aug. 24, 1920. Serial No. 405,694. 3 Claims. (Cl. 46—56.)



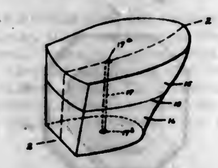
1. An amusement or toy device of the spinning top type, comprising such a top having a plane-bottomed chamber, said plane-bottom having a plurality of circularly-arranged pockets, said pockets being arranged adjacent the circular wall of said chamber; and a gravity actuating member adapted to be received within any of said circularly-arranged pockets, said top having indicia upon the outer surface of its circular wall coincident with said pockets.

1,395,262. TOOL-HOLDER. HENRY CURTIN, Gloversville, N. Y. Filed Dec. 18, 1919. Serial No. 345,801. 3 Claims. (Cl. 29—99.)



1. A tool holder comprising a shank, an angular related stationary jaw formed on the shank, clamping jaws carried by the opposite sides of the stationary jaw for movement toward and away from said stationary jaw; and means for adjusting the clamping jaws toward and away from said head.

1,395,263. UNATTACHED HEEL. RICHARD CUTTS, Swampscott, Mass., assignor of one-half to Renton Heel Company, Lynn, Mass., a Corporation of Massachusetts. Filed May 21, 1921. Serial No. 471,326. 3 Claims. (Cl. 36—34.)



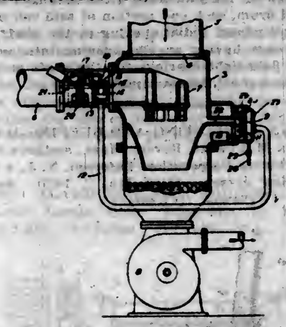
1. As an article of manufacture, an unattached shoe heel, having a heel-seat face, a top-lift face, and intermediate breast and marginal faces, the said heel comprising an upper section on which the heel-seat face and portions of the breast and marginal faces are formed, and a lower section on which the top-lift face and other portions of the breast and marginal faces are formed, said sections having separable inner faces, and a binder connecting the sections and constituting a pivot on which one section may be turned and otherwise manipulated to detach it from the other without marring either the breast or the marginal face, the binder being adapted to confine the sections in their predetermined relative positions prior to their attachment to a shoe.

1,395,264. DIAGNOSTIC INSTRUMENT. HENRY L. DE ZENG, Moorestown, N. J. Filed Mar. 14, 1919. Serial No. 282,553. 1 Claim. (Cl. 88—20.)



An attachment for a retinoscope comprising a sleeve bearing a transparent member having the property of selective retardance of light radiations, said sleeve having an L-shaped slot formed therein providing a laterally deflected spring finger for resiliently holding the attachment in position.

1,395,265. AUTOMATIC SHUT-OFF VALVE FOR JET-CONDENSERS. RAYMOND N. EHRHART and JAMES A. POWELL, Edgewood Park, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 1, 1916. Serial No. 88,305. 12 Claims. (Cl. 261—69.)



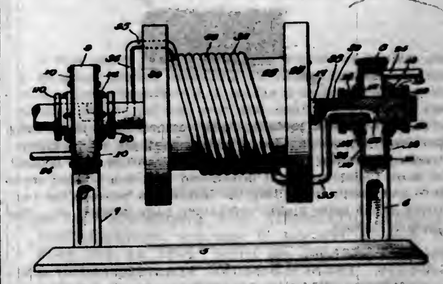
1. In combination with a jet condenser, means for delivering condensing water to the condenser, a valve for controlling the delivery of water to said means, and a vacuum breaker for controlling the operation of said valve.

1,395,266. COMBINATION SPIKE-PULLER. JOHN F. FENTON, Kansas City, Kans. Filed Aug. 9, 1920. Serial No. 402,430. 1 Claim. (Cl. 254—25.)



A spike puller, consisting of a lever having a claw end and provided within the claw with a bumper, said bumper comprising a centrally located plane portion extending vertically of the claw and terminating in beveled side portions, the outer ends of the beveled portions forming with the claw end of the lever rigid fulcrums.

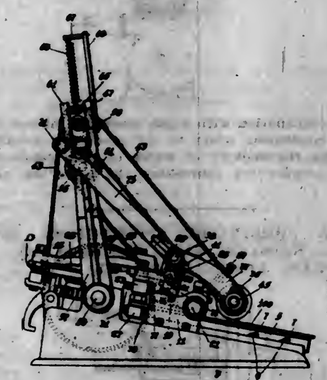
1,395,267. ROTARY MOTOR. WILLIAM H. FISHER, Minocqua, Wis. Filed Mar. 2, 1920. Serial No. 362,834. 1 Claim. (Cl. 253—73.)



A rotary motor including a pair of spaced standards, an annulus rigid on the upper end of each standard in the vertical plane of the standard, the annuli being in axial alinement, cover plates secured on opposite sides of said annuli thereby forming a pair of motive fluid chests, a rotary shaft extending through said chests and having ra-

dial openings within the respective chests, said shaft having a second set of radial openings without and between the chests and longitudinal bores establishing communication between the radial openings in the chests and the respectively adjacent radial openings, a drum mounted on the shaft between the standards, a coil arranged about and fixed to said drum, each end portion of said coil extending into a second named radial opening in the shaft, motive fluid pipes each having an end opening into one of the chests, and fluid-tight bearings for the shaft mounted on the other faces of all the cover plates.

1,395,268. SPLITTING AND BUFFING MACHINE. FREDERICK M. FURBER, Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 2, 1920. Serial No. 348,861. 17 Claims. (Cl. 69—1.)



4. A machine of the class described, having in combination, a cutting tool, a buffing tool, means for supporting a piece of stock, and means for causing relative movement between the supporting means and the tools, to cause the tools to operate upon the stock.

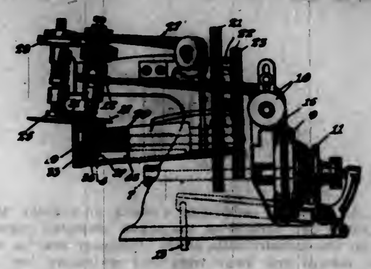
1,395,269. METALLIC ARTICLE. CHARLES L. GEBAUER, Cleveland, Ohio. Original application filed May 17, 1917, Serial No. 169,176. Divided and this application filed Oct. 10, 1918. Serial No. 257,632. 4 Claims. (Cl. 148—32.)



1. A composite metallic body comprising a main body portion of finely divided, discrete particles of highly refractory material closely compacted together, and a layer of more fusible material introduced in a non-divided state into and completely filling the interstices between the particles of the more highly refractory body portion near the surface thereof.

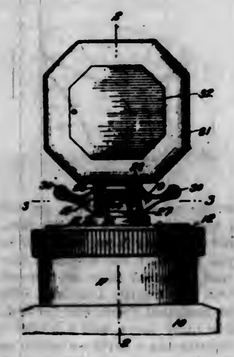
1,395,270. FRENCH-BINDING STRAIGHTENING AND CEMENT-APPLYING MACHINE. PERLEY R. GLASS, Brookline, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 2, 1919. Serial No. 327,983. 15 Claims. (Cl. 12—55.)

13. A machine of the class described, having in combination, a stepped roll over which the work is fed, means for supplying an adhesive to the steps, and means for feeding the work over the roll in such manner that the work



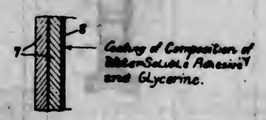
contracts with one step only and overhangs an adjacent step.

1,395,271. ALARM MECHANISM FOR RADIATOR-TANKS. LAFAYETTE C. GORMER, Brooklyn, N. Y. Filed Mar. 16, 1921. Serial No. 452,709. 5 Claims. (Cl. 116—109.)



1. For use on radiator tanks of motor vehicles and in combination with the filler-cap thereof, alarm mechanism operable by steam pressure within said tank comprising a whistle-stem extending through the top of said cap and secured thereto and having its sound-opening above said cap, and a manually operative sleeve-valve on said stem for exposing or closing said opening, as may be desired.

1,395,272. OILPROOF AND GREASEPROOF PAPER CAN. TRUMAN M. GODFREY, Chicago, Ill., assignor to The American Cotton Oil Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 1, 1918. Serial No. 256,448. 1 Claim. (Cl. 91—68.)



A paper container having an inner coating produced by the application thereto first of glycerin, water, and casein, and secondly, of glycerin, water and an adhesive soluble in water and of a character to mask any objectionable odor of the casein employed in the first coating; substantially as and for the purposes described.

1,395,273. SAFETY POSITIVE LOCK FOR HOSE-COUPLINGS. HOWARD E. GOLD, New York, N. Y., assignor to Gold Car Heating & Lighting Company, New York, N. Y., a Corporation of New York. Filed Sept. 14, 1920. Serial No. 410,266. 6 Claims. (Cl. 285—68.)



1. A hose coupling, of the straight port, gravity type, comprising reciprocal coupling members, having each a head with a locking arm on one side and a locking projection on the opposite side, combined with a hook-shaped locking element pivoted to one of said members to swing about an upright axis, and a lug projecting upwardly from the other of said members to form a keeper, said locking element being movable into a positive locking engagement with said keeper.

1,395,274. SEWING-MACHINE. CHRISTIAN H. T. HASELSTEIN, Boston, Mass., assignor to The Reece Button Hole Machine Company, Boston, Mass., a Corporation of Maine. Original application filed Aug. 17, 1914, Serial No. 857,053. Patent No. 1,264,921, dated May 7, 1918. Divided and this application filed Mar. 11, 1918. Serial No. 221,706. 11 Claims. (Cl. 112—252.)



8. In a sewing machine, the combination with stitch-forming mechanism including a needle and shuttle and means for operating them, of a tension for the needle thread, a thread selector, means for actuating said selector during the formation of the last stitch to select and carry laterally both the shuttle thread and the end of the needle thread loop that extends to the work, pivotally-mounted cooperating cutting members to sever said threads, and means to relieve the tension on the needle thread while it is acted on by the thread selector.

1,395,275. PUMP-SUPPORT. CHARLES B. HARBAUGH, Milwaukee, Wis. Filed Nov. 19, 1920. Serial No. 425,209. 5 Claims. (Cl. 31—70.)

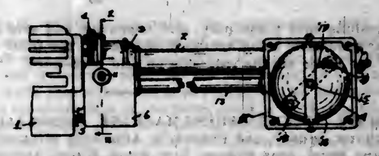


1. A pump support for milking machine pumps, comprising a base bracket, means for securing said bracket to the stall frame, a pump bracket provided with an attaching pin, a rest and a guideway for the pump actuating rod, and means for securing the base bracket to the pump bracket.

3. A pump support for milking machine pumps, comprising a base bracket, means for securing said bracket to the stall frame, an extension member for said base bracket, a pump bracket provided with an attaching pin, a rest and a guideway for the pump actuating rod, and means for securing the pump bracket to said extension member.

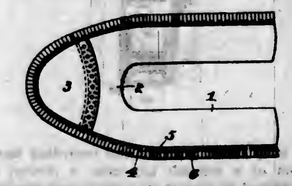
5. A pump support for milking machine pumps, comprising a base bracket having a base portion and a flange portion, means for securing said bracket to the stall frame, an angled extension member having one leg longer than the other, means for securing either leg of said member to either the base or flange portion of the bracket, and a pump bracket secured to the other leg of said member.

1,395,276. ALARM FOR AUTOMOBILES. DELMER E. HERSHEY, Lorain, Ohio. Filed Jan. 20, 1919. Serial No. 271,981. 3 Claims. (Cl. 116—33.)



1. In a device of the character described, the combination of an engine-driven shaft, an exposed gear thereon, a casing mounted adjacent said gear and having an opening, an element rotatably mounted in said casing and pivotally mounted so as to extend through such opening and engage with said gear, an alarm, the casing inclosing said alarm, and flexible connections between said element and said alarm and a conduit secured in said two casings and surrounding said flexible connections.

1,395,277. SHOE-UPPER. HIRAM HOLDEN, Manchester, N. H. Filed Jan. 20, 1920. Serial No. 355,072. 1 Claim. (Cl. 36—45.)

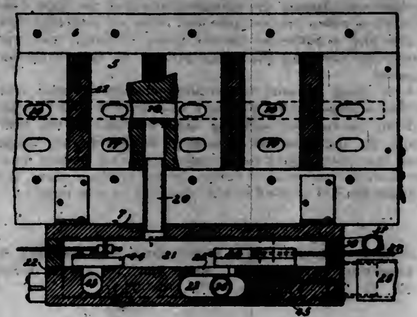


A shoe upper comprising a body portion of leather, and a marginal portion extending outwardly from the bottom edge a distance sufficient to enable it to be grasped by the nippers in the pulling over and lasting operations, said marginal portion comprising a doubled strip of corrugated material having its margins secured above and below the outer edge of the leather by a single row of stitches.

1,395,278. AIR-MOTOR FOR AUTOMATIC MUSICAL INSTRUMENTS. CHARLES V. JAMESON, Chicago, Ill. Filed May 24, 1918. Serial No. 236,425. 5 Claims. (Cl. 230—36.)

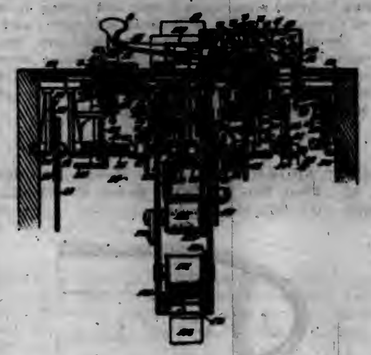
1. In an air motor of the character described, the combination of a base-board having a suction-chamber, a governor pneumatic connected with said chamber by a port, a governing valve cooperating with said port and controlled by the governor-pneumatic, a tempo-box having a valve chamber and a suction chamber, said suction chamber being in communication with said governor-pneumatic,

said valve chamber communicating with the last-named suction chamber by a tempo-port, and a regulating valve



controlling said tempo-port, said tempo-box and said governor-pneumatic being arranged, the one on the front side and the other on the rear side of said base-board.

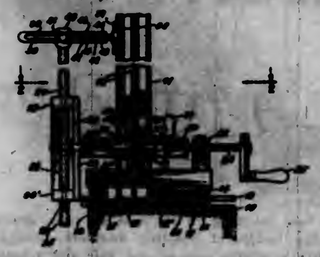
1,395,279. TICKET-ISSUING MACHINE. GEORGE ALFRED JULIUS, Sydney, and FREDERICK AUGUSTUS WILKINSON, Sans Souci, near Sydney, New South Wales, Australia. Filed Feb. 1, 1919. Serial No. 274,425. 13 Claims. (Cl. 235—31.)



1. In a strip ticket printing and recording machine, the combination of a selector key arm, a pivotal mounting therefor adapted to permit traversing and plunging movements of said key arm, a fixed tracker desk with tracker cups therein adapted to receive a locating selector pin on said key, a recording mechanism corresponding with each of said selector cups, an attachment on said tracker arm registering with said recording means respectively and also geared to a total counter, means for printing tickets on a continuous strip of paper and numbering same and severing them from the strip as printed and for ejecting them, means including a clutch for gearing said printing, numbering, severing, and issuing means to a constantly running element, means operated by the plunging of said selector arm to engage said clutch, and means for disengaging said clutch automatically upon the completion of each ticket producing operation.

1,395,280. WINDOW-CLEANING DEVICE. SAMUEL KAHN, New York, N. Y. Filed June 5, 1920. Serial No. 386,902. 4 Claims. (Cl. 15—59.)

1. In a device of the character described, a rack-carrying bracket, a hollow shaft extending from said bracket, a sleeve encompassing a portion of said shaft wherein said shaft may be rotated, but held against longitudinal movement relative thereto, a bearing in which said sleeve is slidably mounted whereby said shaft may be moved lon-



gitudinally with said sleeve relatively to said bearing, and means for clamping said sleeve in said bearing whereby the longitudinal motion of said shaft is prevented while oscillatory motion of said shaft in said sleeve is allowed.

1,395,281. DRY BATTERY-CELL. HARRY M. KORNTZKY, New York, N. Y. Filed Sept. 18, 1919. Serial No. 324,567. 5 Claims. (Cl. 204—38.)



1. A battery cell comprising an external cupshaped electrode a core composed of a central electrode surrounded by a self-supporting bare body of depolarising material molded thereon, a separate spacing device extending substantially the entire length of said core, lying flat against said core and compressed between the outer electrode and the core at intervals around the same so as to hold the core together during use, and an electrolyte in the unoccupied spaces around the core.

1,395,282. DRY BATTERY-CELL. HARRY M. KORNTZKY, New York, N. Y. Filed Sept. 18, 1919. Serial No. 324,568. 9 Claims. (Cl. 204—29.)



1. In a battery cell, an external cup-shaped electrode, an internal core comprising the second electrode, a carrier between the core and cup and in contact with both, a dry electrolyte carried by said carrier, and sealing means for the cell.

1,395,283. CHAIN. ROBERT M. LANGDON, Englewood Cliffs, N. J. Filed Dec. 19, 1919. Serial No. 345,951. 5 Claims. (Cl. 59—35.)



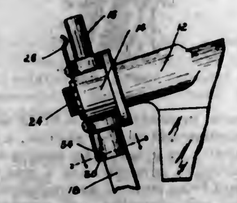
1. A repair link of the class described comprising oppositely directed loop portions joined by shank portions, one of the shank portions being cut out to form an open link thereof, the ends of the shank which is cut out being provided with apertures, a tubular section adapted to be placed between the ends of said shank to close the cut out portion thereof, and means passed through said tubular section and into the apertures of said shank for securing said section in connection with the link.

1,395,284. FRONT-ROLL STAND FOR SPINNING-FRAMES. DON CARLOS LEONARD and ARCHIE PERRY GREER, Greenville, S. C. Filed Apr. 29, 1921. Serial No. 465,437. 5 Claims. (Cl. 19—32.)



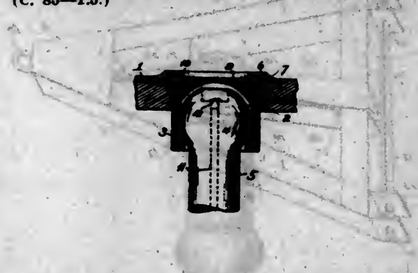
2. A stand for spinning or roving frames comprising a pedestal having a flat face, a projection formed on the pedestal at the lower end of the flat face, a screw extending through said projection, a front roller bearing contacting with the flat face, a slotted extension formed on the bearing, a screw threadedly engaging the pedestal and extending through said slot, the lower end of said extension being rounded and adapted to be engaged by the first screw, for the purpose described.

1,395,285. BURNISHING-MACHINE. HENRY M. LOOMER, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 10, 1920. Serial No. 350,607. 15 Claims. (Cl. 12—104.)



1. A retaining member comprising a leaf spring having a hole and a ball seated in the hole and held by the spring against the tool to be retained.

1,395,286. STAYBOLT STRUCTURE. ROBERT S. MENNIE, Chicago, Ill., assignor to Flannery Bolt Company, Pittsburgh, Pa. Original application filed Feb. 5, 1916, Serial No. 76,333. Divided and this application filed Aug. 29, 1919. Serial No. 320,646. 4 Claims. (C. 85—1.5.)



1. In a staybolt structure, the combination with a boiler sheet having an opening, of a bearing sleeve passing through said opening and extending inwardly beyond the same and prevented from inward movement by engagement with the boiler sheet, said sleeve also projecting beyond the outer face of the boiler sheet, a weld surrounding the outwardly projecting end of the sleeve and uniting said sleeve to the boiler sheet, a staybolt having a head mounted in said sleeve, and a closure in the sleeve over the bolt head.

1,395,287. GARMENT-HANGER. HELEN MESSAROS, McKeesport, Pa. Filed Mar. 12, 1921. Serial No. 451,892. 1 Claim. (Cl. 211—13.)

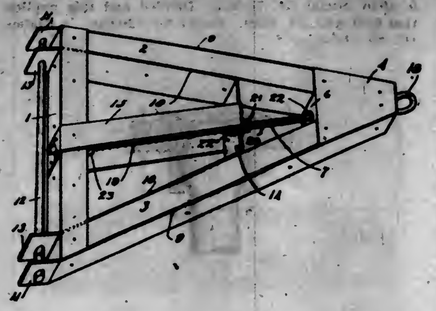


A garment hanger adapted for suspending ladies' skirts therefrom comprising a curved yoke bar having vertical depending extensions at its ends adapted to project into the waist of the skirt, a hinge element fixed to one end of said yoke bar, the attaching point of said hinge element being entirely above the adjacent vertical extension, a pair of clamp arms hinged at one end on said hinge element below the latter and adapted to project across said extensions on opposite faces thereof and clamp upon the waist of the garment, and means for releasably securing the free ends of said clamp bars together.

1,395,288. TRUCK-COUPLING. JOHN R. MILLER, Spokane, Wash., assignor of one-half to Delbert A. Miller, Thornton, Wash. Filed Aug. 18, 1919. Serial No. 318,267. Renewed Mar. 18, 1921. Serial No. 453,478. 1 Claim. (Cl. 213—67.)

The combination in a coupler including a bolster and converging side bars comprising outer and inner straps having extended perforated ends for a transverse coupling pin, of a draw bar and its coupling eye, a cross brace in-

tegral with said inner strap, a rectangular frame bar overlapping said cross brace and the bolster and perfo-



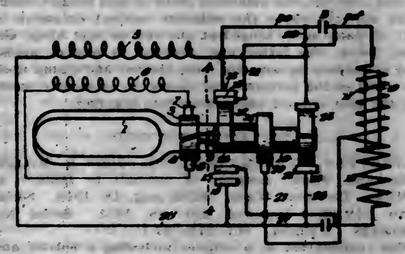
rated for reception of the draw bar, and springs in connection with the draw bar for absorbing shocks.

1,395,289. CLUTCH FOR MOTORS AND THE LIKE. WILLIAM J. O'LEARY, Montreal, Quebec, Canada, assignor to Marguerite Vernandes O'Leary, Montreal, Quebec, Canada. Filed Sept. 5, 1919. Serial No. 321,918. 13 Claims. (Cl. 64—26.)



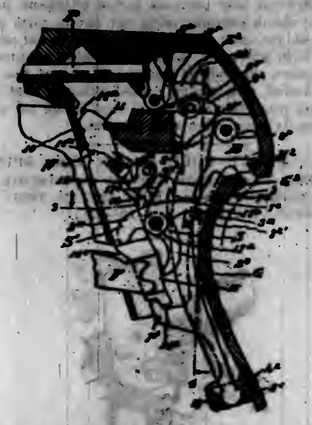
13. A clutch of the character specified comprising the combination of a shaft, a cupped disk being attached to said shaft, a part of said disk being under compression whereby the disk tends to remain cupped in either direction dependent upon the direction in which pressure was last applied to said disk, arms integral with said disk, said arms being open when the disk is concave in one direction, said arms being closed when the disk is concave in the other direction, selector pins carried by said disk, and a member cooperative with said arms when the clutch is operative, said member being provided with openings to receive said pins.

1,395,290. NON-ARCING COMMUTATING SWITCH DEVICE. LOUIS PAULMO, Petersburg, Va., assignor to American Electric Tool Company, Incorporated, Petersburg, Va., a Corporation of Virginia. Filed Mar. 14, 1919. Serial No. 282,605. 3 Claims. (Cl. 172—128.)



1. The combination of a dynamo electric machine having a series exciting winding, two hammer coils for moving a hammer in opposite directions, and means for supplying electrical impulses of opposite polarity from said machine to said coils in alternate succession through two independent circuits each of which includes said series exciting winding.

1,395,291. FIREARM. JOHN D. PEDERSEN, Jackson, Wyo. Original application filed July 30, 1915, Serial No. 42,774. Renewed July 17, 1919, Serial No. 311,689. Divided and this application filed Dec. 11, 1919. Serial No. 344,627. 25 Claims. (Cl. 42—3.)



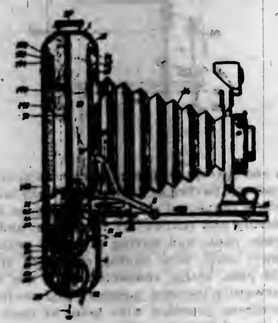
12. In a firearm, in combination, a firing-pin, reciprocally movable firing-pin actuating means engageable with said firing-pin, means for moving said firing-pin actuating means reciprocally, a firing member slidably movable to fired position and to firing position, and engageable therewith for movement thereby to firing position when said firing pin actuating means is moved by said means for moving reciprocally, and means for slidably moving said firing member to fired position.

1,395,292. FIREARM. JOHN D. PEDERSEN, Jackson, Wyo. Filed Dec. 12, 1919. Serial No. 344,628. 23 Claims. (Cl. 42—3.)



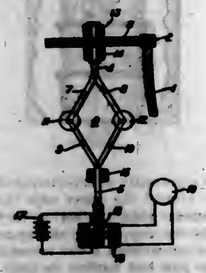
13. In a firearm, in combination, a firing member movable to firing position and to fired position, a slidable detainer and controller, an actuator for moving said slidable detainer and controller upwardly, and a sear member engageable with said firing member, and engageable with said slidable detainer and controller, and provided with an actuator-contactor; said firing member when moved to firing position engaging said actuator-contactor and moving said sear member to permit upward movement of said slidable detainer and controller by said actuator to lock said sear member and firing member in firing position; said sear member when said firing member is moved to fired position being moved by the firing member and engaging said slidable detainer and controller to move the slidable detainer and controller downwardly.

1,395,293. PHOTOGRAPHIC CAMERA. WILLIAM A. PETERS, Chicago, Ill., assignor to International Patent Licensing Corporation, Chicago, Ill., a Corporation of Delaware. Substitute for application Serial No. 56,227, filed Oct. 16, 1915. This application filed Oct. 13, 1919. Serial No. 330,681. 28 Claims. (Cl. 95—32.)



1. In a folding camera, the combination with film spool carriages reciprocably movable in the housing for disposing film in the exposure plane, of a bellows support reciprocably movable transversely within the housing and in the path of the film spool carriages and adapted to prevent movement of the latter when the bellows is projected into said housing.

1,395,294. MEASURING INSTRUMENT. RAYMOND T. PIERCE, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 5, 1917. Serial No. 160,049. 7 Claims. (Cl. 175—183.)



1. An accelerometer comprising a movable member adapted to be moved longitudinally in accordance with its speed of rotation and means actuated by the movable member responsive to the rate of change of movement of the movable member.

1,395,295. MEDICATED TAMPON. EDMUND MORSE PORTER, Rutland, Vt. Filed Jan. 24, 1918, Serial No. 213,467. Renewed Sept. 10, 1921. Serial No. 499,864. 2 Claims. (Cl. 128—270.)

1. A medicated tampon for treatment of the cavities of a patient's body comprising, in combination, a shell of soluble material closed at one end, a body of soluble material impregnated with medicament located in the closed end of the shell, a layer of less soluble material capable of therapeutic action next to said first mentioned mass, and a body of fibrous material filling the open end of the shell, whereby in use the shell is first dissolved by the



secretions of the adjacent membranes and the soluble mass held in contact therewith until dissolved by said secretions, the contained medicament being absorbed into the patient's system, and thereafter the less soluble material is distributed over said membranes by the massage action of the fibrous material.

1,395,296. TIRE-VISE. ELMER QUINN, Philadelphia, Pa. Filed Apr. 2, 1921. Serial No. 457,869. 5 Claims. (Cl. 152—27.)



1. In a tire vise, a plurality of arms having hooks at their outer ends, adapted to engage tire walls, a pivotal connection for the opposite ends of said arms, ratchet teeth annularly arranged on one of said arms, in proximity to said pivotal connection and a spring pressed pawl carred by the other of said arms, and adapted to engage said ratchet teeth to retain said arms and tire walls in open position.

1,395,297. CURTAIN-FIXTURE. FRED A. REARDON, Bridgeport, Conn. Filed Mar. 8, 1920. Serial No. 364,189. 9 Claims. (Cl. 156—36.)

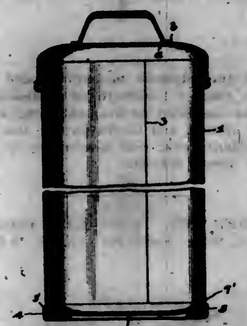
8. In combination, a tubular curtain roller, means for rotatably supporting the same, and clutch means for normally retaining the roller in desired position, said means comprising a sheet metal box or retainer of polygonal shape and having openings at its corners, said box or re-

tainer being seated within said roller, and secured in position by striking the material of said roller into engage-



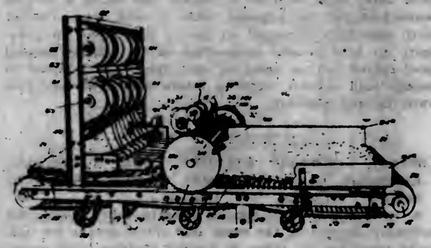
ment with said openings, cover means for said box, and coöperative clutch elements within said box.

1,395,298. CONTAINER. WALTER H. RICHMAN, Philadelphia, Pa. Filed Nov. 20, 1919. Serial No. 339,436. 2 Claims. (Cl. 220—75.)



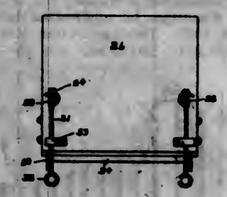
1. A container comprising a body portion, and a bottom having a depressed main part and a doubled back portion forming a downwardly extending vertical flange with a fin-like edge at the junction of and braced by the convergent depressed main part and doubled back portion and lying with its highest point against the inner side of the body to provide a smooth continuous surface at the joint and a tin coating applied molten and covering said joint at the inner side of said body and bottom, said joint being solderless, substantially as described.

1,395,299. APPARATUS FOR MANUFACTURING RESILIENT PACKING OR FILLING MATERIAL. CHARLES T. RIPLEY, Chicago, Ill. Filed July 11, 1919. Serial No. 310,086. 26 Claims. (Cl. 140—93.)



1. In apparatus of the character described, the combination of a conveyer adapted to receive a body of packing or filling material at one end and discharge it at the other, and means associated therewith for embedding spring elements in said body of material.

1,395,300. SCOOP-BOARD AND END-GATE. GEORGE W. SANDERS, Township 66, Worth county, Mo. Filed Jan. 31, 1921. Serial No. 441,401. 2 Claims. (Cl. 296—60.)



1. In an end gate structure, a bracket comprising spaced upright members, having at their upper ends lateral extensions, members connected with said extensions and extending downwardly and rearwardly therefrom, and connected at their lower ends, and having laterally projecting pins at their lower ends, bars having elongated slots for receiving said pins, strips connected with the upper ends of said rearwardly inclined members and projecting rearwardly therefrom, provided with holes at their rear ends, and rods designed to be pivotally connected with said last strips.

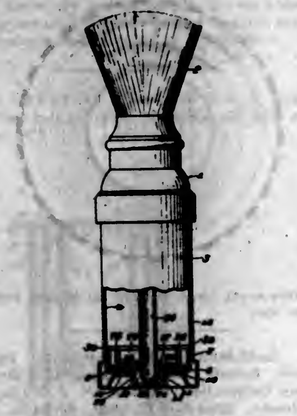
1,395,301. COMBINED PAN-HANDLE AND PAN-SUPPORT. ALBERT SECHRIST, Denver, Colo. Filed Oct. 22, 1920. Serial No. 418,796. 1 Claim. (Cl. 53—1.)



In combination a plurality of superimposed pans, a lower pan having a rim around the upper edge thereof and having a greater diameter than the bottom of the pan thereabove, and means for supporting the upper pan on the lower, said means comprising a bar secured to the upper edge of the lower pan and having its ends turned under and inward to produce hooks engaging the rim of the lower pan, the upper pan resting on said bar, said bar being adapted to serve as a handle.

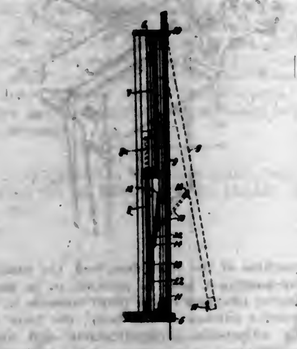
1,395,302. DISPENSING DEVICE. ISAAC C. SHALLROP, Philadelphia, Pa., assignor to The De Luxe Brush Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 3, 1920. Serial No. 421,462. 5 Claims. (Cl. 221—79.)

1. In a dispensing device of the character described, the combination of a hollow member having a closed end formed with a central projection surrounded by a depression, a container situated within the said hollow member and having a closed end provided with a projection which



extends into the said projection of the said hollow member, and a discharge tube extending into the said projections.

1,395,303. STORM-WINDOW OPENER AND CLOSER. EDWARD C. SHORT, St. Paul, Minn. Filed Jan. 10, 1921. Serial No. 436,139. 2 Claims. (Cl. 20—55.)



1. A storm-window operating device comprising an inclined actuating rod pivotally connected with the storm sash and the adjacent inner window sash, one end of said rod having a limited sliding motion, said slidable end carrying a pivoted T-shaped member with its leg pivoted to one end of the bar, a guide member having a slot for the leg of the T-shaped member and a groove adjacent the slot for the arms of the T-shaped member to slide in.

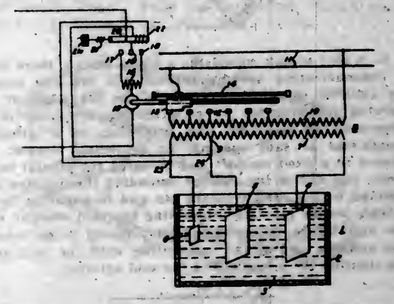
1,395,304. ELECTROLYTIC CONDENSER. JOSEPH SLEPIAN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 30, 1919. Serial No. 348,449. 8 Claims. (Cl. 175—315.)

1. The combination with an electrolytic condenser comprising a plurality of groups of electrodes and a coöperating electrolyte, of means governed by the relative voltages impressed upon the groups of electrodes acting to maintain



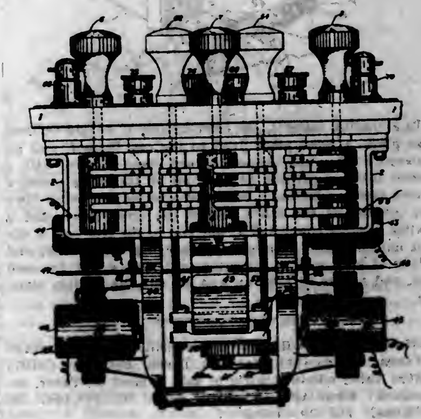
the potential of the groups of electrodes substantially equal with respect to the electrolyte.

1,395,305. ELECTROLYTIC CONDENSER. JOSEPH SLEPIAN, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 30, 1919. Serial No. 348,452. 7 Claims. (Cl. 175—315.)



1. The method of maintaining a substantially constant capacitance in an electrolytic condenser that comprises providing means for regulating the impressed voltage on the condenser, and maintaining the impressed voltage substantially constant.

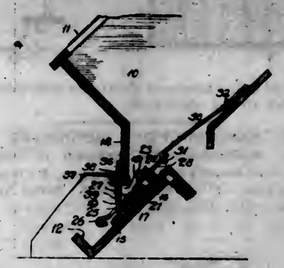
1,395,306. METHOD AND APPAPATUS FOR CALIBRATING MEASURING-INSTRUMENT TRANSFORMERS. HENRY NICKOLAS STROH, Pittsburgh, Pa. Filed Nov. 22, 1918. Serial No. 263,701. 16 Claims. (Cl. 175—183.)



1. A calibrating device for instrument transformers comprising two similar watt-hour meters adapted to be

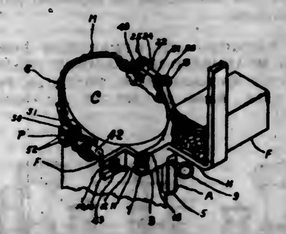
connected to the primary and secondary windings of the transformer to be calibrated and means for equalizing the speeds of the meters.

1,395,307. FEED-TROUGH. DONALD R. STUART, Harlan, Iowa. Filed Sept. 15, 1919. Serial No. 323,761. 11 Claims. (Cl. 119—53.)



5. A feed trough embodying a bin, a trough, there being a communicating opening between the bin and trough, an agitator element operating in the bin adjacent the opening and mounted for reciprocating movement in an approximately straight line extending in a direction lengthwise of said opening, an operating element anchored to a fixed support and mounted for pivotal movement, one end of the element extending through the said opening to the outside of the bin and terminating in the trough, means pivotally connecting the said element with the agitator to operate the latter, spaced stops beneath the agitator and means coöperating with the said stops for limiting the movement of the said agitator.

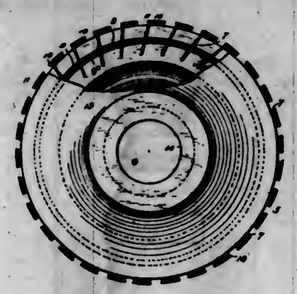
1,395,306. STAGING-SUPPORT. MARTIN F. SYKES, Lawrence, Mass. Filed Apr. 4, 1919. Serial No. 287,565. 1 Claim. (Cl. 304—41.)



In a staging support, the combination of a rigid vertical base plate, a cross piece fixed to the top thereof, and an outwardly extending supporting arm fixed thereto, with a hinged member pivoted at one end of the cross piece, a hinged member having a bent end terminating in an open slot pivoted at the other end of the cross piece, and a flexible member connected at one end to the free end of the first named hinged member and carrying at its other end a bolt of such size as to enter said slot, a nut for said bolt, and means to take up and let out the flexible member.

1,395,309. TIRE-DRESSING WHEEL. PERCY EDWARD TABER and SAMUEL MAURICE TABER, Berkeley, Calif.; Rose Taber administratrix of said Samuel M. Taber, deceased. Filed Apr. 12, 1920. Serial No. 373,494. 22 Claims. (Cl. 29—105.)

1. The combination with a wheel having transverse slots spaced apart, each slot being separated by a solid portion of the wheel, of toothed blades mounted in the slots, and means for holding the blades in place, said



blades having every tooth set and all of said teeth being of the same size.

1,395,310. LAST-MEASURING MACHINE. FRANK H. THOMPSON, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 17, 1920. Serial No. 352,091. 17 Claims. (Cl. 33—122.)



1. In a machine of the class described, the combination of means for holding a body in position to be measured, and a planimeter having a tracer point movable in a plane over the exterior surface of the body, the body holding means being adjustable perpendicularly and angularly relatively to the plane of movement of the tracer point.

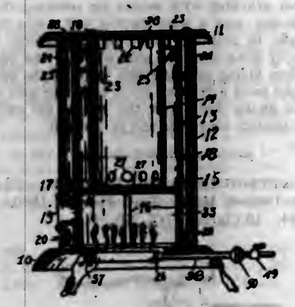
1,395,311. LENS ATTACHMENT. EDGAR D. TILLYER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Aug. 23, 1920. Serial No. 405,359. 8 Claims. (Cl. 88—42.)



1. In a device of the character described, the combination with a lens clip ear having a screw receiving aper-

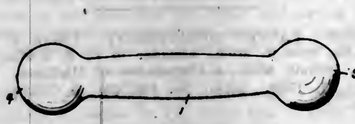
ture formed therethrough and an annular recess formed adjacent the aperture, of a locking device lying within the recess and having an upstanding portion for bitingly engaging a screw, the material of the clip ear adjacent the recess being inwardly deflected to loosely retain the locking device in position, substantially as illustrated.

1,395,312. GAS-STOVE. JAMES E. TOSCAN, Jamestown, N. Y. Filed July 19, 1920. Serial No. 397,335. 4 Claims. (Cl. 126—90.)



1. A gas stove comprising top and bottom plates, a cylinder clamped therebetween and formed intermediate its length with an internal shoulder, a ring plate seated on the shoulder and defining the upper wall of a combustion chamber, and a shorter cylinder of sheet metal interposed between the ring plate and the top plate and engaged with the top plate and formed with a plurality of openings adjacent its upper and lower ends in open communication with the space between said cylinders whereby the unheated gases issuing from the upper openings may reënter the lower openings.

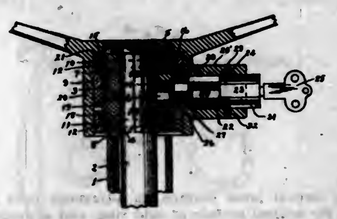
1,395,313. DUMB-BELL. WILLIAM TREPANIER, Duluth, Minn. Filed Oct. 25, 1920. Serial No. 419,453. 2 Claims. (Cl. 46—69.)



1. The combination with a two-part dumb bell of the class described, having means therebetween for yieldably holding the sections together; of a rigidly united shaft and tube securely fixed in the ball like portions of one of the sections, expansive helical springs intermediate of the shaft and tube, and sleeves screw-threaded into the ball like portions of the other sections through which the shaft and tube slidably reciprocate and in which the shaft is held against dislodgment.

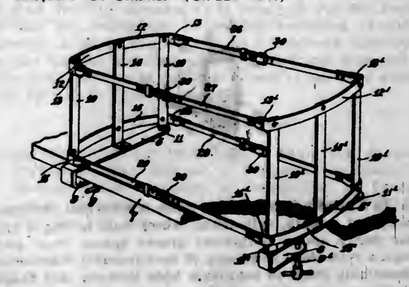
1,395,314. VEHICLE STEERING MECHANISM. LOUIS C. VANDERLIP, Elkhart, Ind. Filed Jan. 29, 1921. Serial No. 440,861. 15 Claims. (Cl. 70—129.)

15. In combination, a steering post; a driver hub rigid therewith; a sleeve rotatable about said hub; means for preventing relative axial movement of said sleeve and hub; a steering element fitted over said sleeve; and a



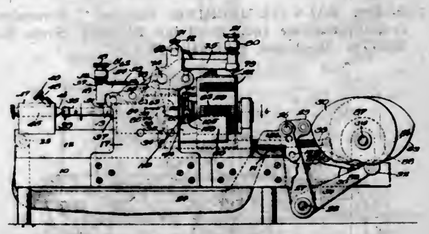
lock barrel carried by the steering element for releasably locking the latter to said driver hub.

1,395,315. LUGGAGE-CARRIER. HENRY G. VOIGHT, New Haven, Conn. Filed Dec. 10, 1920. Serial No. 429,613. 10 Claims. (Cl. 224—29.)



1. A luggage carrier comprising, two independent horizontally bowed resilient end pieces and means for clamping the same to a running board of a vehicle.

1,395,316. CHASING-MACHINE. JOHN C. WAHL, Chicago, Ill., assignor to The Wahl Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 2, 1919. Serial No. 286,964. 26 Claims. (Cl. 90—24.3.)



1. In a chasing machine, the combination of a plurality of spindles, means to rotate said spindles simultaneously, cutting tools, means to reciprocate said spindles and said cutting tools relatively to each other and means operated by said reciprocating means to rotate said spindles intermittently and without lost motion.

1,395,317. PRINTING-PRESS INKING-ROLLER TRUCK. LEROY J. WARNER, North Chicago, Ill. Filed Mar. 19, 1921. Serial No. 453,836. 5 Claims. (Cl. 101—348.)

1. A roller construction for inking-roller trucks of printing-presses, comprising in combination a main-body hav-

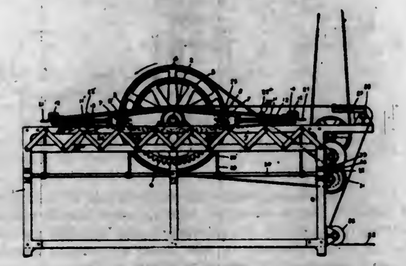
ing an abutment wall, an expansible and contractible ring bearing at one side against said abutment wall and having a conical inner surface, an adjustable cone coacting with the conical surface of said ring, and a confining collar arranged to bear on the opposite side wall of said ring.

1,395,318. WHEEL FOR PRINTING-PRESS INKING-ROLLER TRUCKS. LEROY J. WARNER, North Chicago, Ill. Filed Mar. 19, 1921. Serial No. 453,837. 4 Claims. (Cl. 101—348.)



1. In a printing-press inking-roller truck-wheel, the combination of a main, cylindrical, wheel body having a circular flange and a peripheral groove spaced from said flange, a cylindrical tread-ring of unchangeable dimensions demountably fitted on said main body between said flange and groove, a tread-ring locking-spring normally partly in and partly out of said groove but designed at times to be temporarily compressed wholly in said groove, and a key and keyway connection between said tread-ring and said wheel body, such key extending only part way the length of said tread-ring, the latter having a beveled surface adapted to automatically contract said locking-spring in said groove during application of the tread-ring of said wheel body.

1,395,319. BALE-TIE MACHINE. GEORGE W. WHITTINGTON, Indianapolis, Ind. Filed Jan. 22, 1920. Serial No. 353,176. 10 Claims. (Cl. 140—73.)



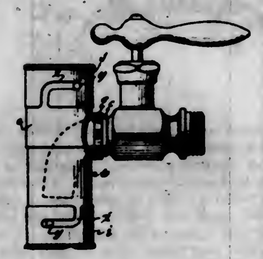
1. A bale tie machine comprising a revolving member, means disposed flatwise to its path of travel for feeding wire thereto, a plurality of cutting devices operable intermittently thereon, and a plurality of wire twisting means also operable intermittently for simultaneously forming a plurality of bale ties, said cutting devices and wire twisting means being arranged in series at each end of the platform and side by side, substantially as set forth.

1,395,320. CIGAR AND CIGARETTE HOLDER. FRANK P. WILLIAMS, Detroit, Mich. Filed Feb. 2, 1920. Serial No. 355,566. 6 Claims. (Cl. 131—51.)



5. A combined ash catcher and cigar shield, comprising a pan member provided with means for securing the same to a cigar holder, and a hood having end walls that are initially made to slightly converge and which require spreading to fit them over the side walls of the pan, said end walls when fitting over the side walls of the pan serving to give the hood a friction pivot upon the pan so that the same can swing down over the end of the pan or be swung up to project above the end of the pan.

1,395,321. ATTACHMENT FOR FAUCETS. FRANK P. WILLIAMS, Detroit, Mich. Filed Feb. 11, 1920. Serial No. 357,994. 10 Claims. (Cl. 299—9.)



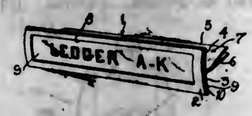
5. An attachment for faucets, comprising an upright barrel having an open lower end and an opening through the side of the barrel, means for clamping the barrel to the elbow of a faucet which passes through the said opening in the side of the barrel, means for closing the lower end of the barrel, and a bubbling fountain device in the upper end of the barrel operated when the lower end of the barrel is closed off.

1,395,322. FAUCET ATTACHMENT. FRANK P. WILLIAMS, Detroit, Mich., assignor to E. E. Gudka Mfg. Co., Detroit, Mich., a Corporation of Michigan. Filed May 21, 1920. Serial No. 383,038. 4 Claims. (Cl. 299—9.)



1. An attachment for a faucet, comprising a barrel having a bubbling fountain orifice in its top and an aperture through its side adapted to allow a faucet elbow to enter into the barrel, a rubber washer having a conical exterior adapted to be fitted over the faucet elbow and adapted to engage in said aperture, and a metal washer fitting over the faucet elbow ahead of the rubber washer, and means between the washer and the barrel for drawing the barrel into water-tight relation with respect to the rubber washer.

1,395,323. MARKER OR INDICATOR. CLARENCE WOFFORD, Atlanta, Ga. Filed Jan. 20, 1920. Serial No. 352,687. 1 Claim. (Cl. 40—23.)



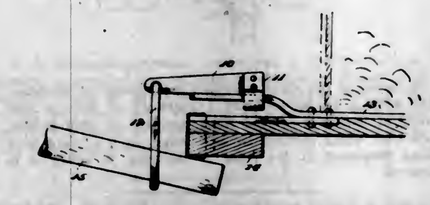
The marker or indicator of the class described embodying a face portion formed to receive and expose an index card, and a binder entrant, consisting of a pair of resilient shanks diverging outwardly from the rear of the face portion, and a plurality of laterally projecting spurs formed on the outer surfaces of the shanks, said shanks being adapted to be compressed and inserted between the binder leaves, said compression serving to draw the face portion into contact with the binder while at the same time forcing the spurs into frictional engagement with the adjacent binder leaves to lock the marker in position.

1,395,324. DISH-WASHING MACHINE. LEOLA C. WOOD and ELIJAH G. WOOD, Rebecca, Ga. Filed Mar. 23, 1921. Serial No. 454,665. 3 Claims. (Cl. 141—9.)



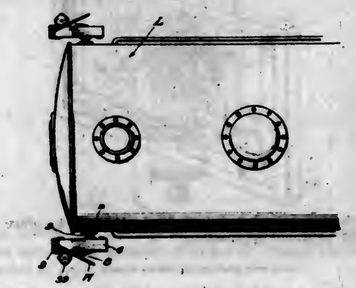
1. In a dish washing machine, a tank for the reception of cleaning fluid provided with agitating means for agitating the fluid, a dish receiving basket being of a shape to fit and mounted within the tank, arcuate spaced rods for the reception of dishes therebetween to support the dishes on their edges upon the bottom of the basket and a cover common to the tank and the basket and having means engaging between the basket and the wall of the tank, to space the basket from the inner surface of the tank.

1,395,325. DRAWBAR-STRAIGHTENER. NEWTON L. YARNALL, Accoville, W. Va. Filed Mar. 5, 1920. Serial No. 363,612. 2 Claims. (Cl. 153—38.)



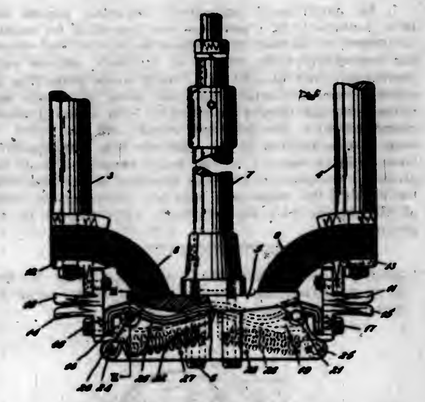
2. A device for the purpose set forth comprising a body bar, a stirrup secured rigidly to one end of said bar and flattened below the bar whereby to project laterally from the bar, and a suspending loop pivotally engaged in the opposite end of the bar.

1,395,326. CLASSIFICATION-SIGNAL FOR LOCOMOTIVES. SHEPPARD BOYD YATES, Hamlet, N. C. Filed Oct. 9, 1920. Serial No. 415,775. 3 Claims. (Cl. 116—30.)



1. In a signal device of the class described, a casing, a staff pivotally mounted to be swung to position housed within the casing and to position extending exteriorly thereof, a lid for the casing, and a relatively rigid plane signal member mounted upon the staff and arranged in the latter position of the staff to rest at one edge against the lid and be thus supported.

1,395,327. CIRCUIT-BREAKER. CHRISTIAN AALBORG, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 18, 1920. Serial No. 417,561. 9 Claims. (Cl. 200—166.)

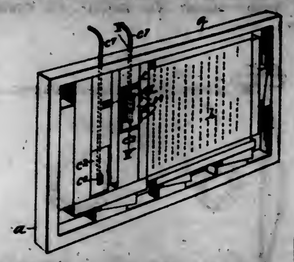


9. In combination, in a circuit breaker, main contact members movable with respect to each other, a pair of stationary arcing tips, a pair of pivotally mounted arcing tips, and a shunt member engaging the free ends of the pivoted arcing tips and so arranged as to bear against the arcing tips when acted upon by repellant magnetic strains.

1,395,328. PRINTING APPARATUS. REED ADAMS, Detroit, Mich. Filed Apr. 4, 1919. Serial No. 287,394. 2 Claims. (Cl. 101—383.)

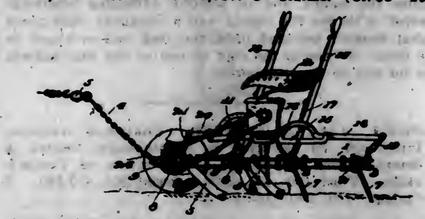
1. In an apparatus of the kind described, a block adapted to be bound in the form, said block being provided with an aperture in its surface, and means for producing a vacuum in said aperture, in combination with a printing

plate adapted to engage on the surface of the first named plate and being held thereon solely by the vacuum, where-



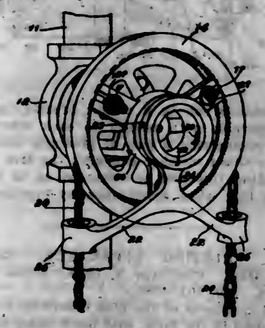
by such a plate may be readily adjusted to place and removed between impressions.

1,395,329. AGRICULTURAL IMPLEMENT. WILLIAM E. ATON and WILLIE J. ATON, Milburn, Ky., assignors of one-third to L. J. Bryant, Milburn, Ky. Filed Oct. 28, 1919. Serial No. 334,050. 5 Claims. (Cl. 55—102.)



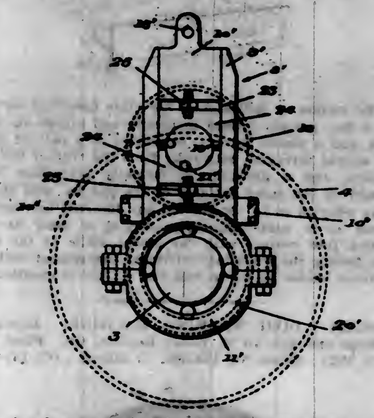
1. An agricultural implement including spaced side bars, a plurality of transverse bars journaled for rocking movement in the side bars, blades secured to and extending rearwardly from certain of the bars, harrow teeth carried by other of said bars, crank arms projecting upwardly from the outer transverse bars, quadrants each having one end thereof extended to form a link pivotally connected with the adjacent crank arm and with its base portion secured to the adjacent link, and operating levers rigidly secured to the inner transverse bars and pivotally connected to the base members of the quadrants for rocking the transverse bars and changing the angle of the blades and harrow teeth with respect to the ground.

1,395,330. SPROCKET-CHAIN GUIDE. ISAAC N. BABBITT, Fairhaven, Mass. Filed June 26, 1918. Serial No. 242,889. 11 Claims. (Cl. 74—31.)



3. The combination with a sprocket, of a tubular bearing connected thereto in a position where the axial line of the sprocket is within its bore, and a chain guide rotatably mounted upon said bearing and having eyes located outside of the periphery of the sprocket and substantially in the plane thereof adapted to guide a chain.

1,395,331. VALVE-GEAR. HARTLEY O. BAKER, Pueblo, Colo., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Filed Mar. 17, 1919. Serial No. 283,220. 3 Claims. (Cl. 121—171.)



1. A valve gear embodying in combination with a shaft and a driving gear thereon, an arm disposed astride said gear and having pairs of plates at opposite sides of said gear, some of which have bearings journaled on said shaft, valve operating gears at opposite sides of said gear disposed between the plates of said arm and having bosses on opposite sides mounted for rotation in said plates, said bosses having opposite valve operating wrist pins, and gears secured on the shaft within the arm at opposite sides of the driving gear and meshing with the valve operating gears.

1,395,332. KEY-REMINDER. MAX BAYERDORFFER, Huguenot Park, N. Y. Filed Apr. 30, 1921. Serial No. 465,875. 1 Claim. (Cl. 40—10.)



A device of the class described comprising, in combination with a key-holder, and a plurality of keys, a plurality of variously-colored rings mounted on said holder, said keys being secured to said rings, each of said keys being identified by the color of the ring to which it is secured.

1,395,333. SPIRAL LEG-BAND. MAX BAYERDORFFER, Huguenot Park, N. Y. Filed July 28, 1921. Serial No. 488,128. 2 Claims. (Cl. 40—2.)

1. A leg band comprising a slightly flexible coil the ends of which are adapted to overlap each other, tapered cur-

faces on the ends thereof, a name plate having extending lugs adapted to encircle the overlapped ends of said coil



to slidably retain said name plate thereon, and means for locking said overlapping ends.

1,395,334. HAIR-CUTTING IMPLEMENT. MARCUS B. BUSHMAN, Tompkinsville, N. Y. Filed Sept. 25, 1919. Serial No. 326,320. 5 Claims. (Cl. 30—12.)



1. A hair cutting implement of the character described comprising a general frame affording a top and a downwardly and outwardly inclined front toothed member, a razor blade mounted in said front member, a cover-plate for said front member, a toothed adjusting plate hinged at its upper edge back of the upper portion of said front member and to be adjusted at its lower end toward and from said member, and means for locking said hinged plate up under said top when said plate is to be placed out of operation.

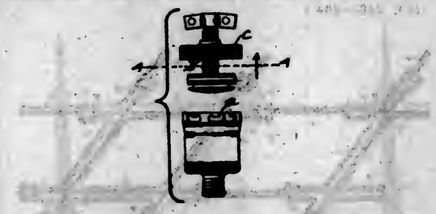
1,395,335. ELECTRICAL MEASURING INSTRUMENT. LEWIS W. CHUBB, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 10, 1916. Serial No. 114,176. 11 Claims. (Cl. 175—183.)



1. A measuring system comprising a reactor, a condenser, a resistor and a current-measuring device, said devices being so arranged that the admittance of the circuit thus constituted will vary in accordance with a predetermined function between the frequency and the inductive interference effect.

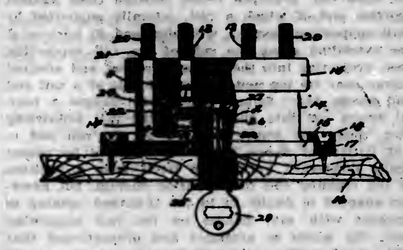
1,395,336. GREASE-CUP. LLOYD GEOFF COPEMAN, Flint, Mich., assignor to Copeman Development Company, Flint, Mich., a Corporation of Michigan. Filed Dec. 18, 1918. Serial No. 267,311. 3 Claims. (Cl. 184—48.)

1. A grease cup, having in combination, a barrel provided with bayonet slots cut clear through the wall of the barrel at the outer end, a cap provided with projections on the inside of the flange adapted to engage the bayonet slots, and a spring engaging between the end



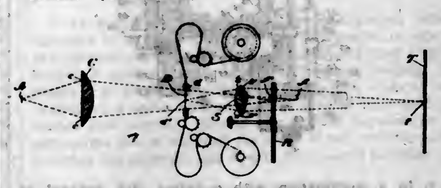
of the barrel and the top of the cap and comprising a warped thin spring member arranged to contact the end of the barrel at least three spaced points thereon.

1,395,337. AUTOMOBILE-LOCK. HERBERT E. FANNER, Bryn Mawr, Pa. Filed July 8, 1920. Serial No. 394,784. 3 Claims. (Cl. 200—44.)



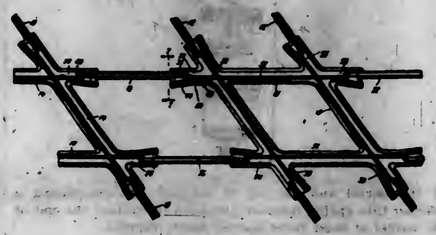
1. In a device of the character stated superimposed fixed terminal blocks of insulating material each provided with contact pieces, a disk of insulating material rotatably mounted between said terminal blocks which disk is provided with spaced contact pieces electrically inter-connected in an irregular manner, a key barrel passing through one of said terminal blocks and fixed to said disk and a key adapted for coöperatively engaging said barrel to shift said disk for establishing registry of the contact pieces of said disk with the terminal blocks whereby correct timing order of motor cylinders may be effected.

1,395,338. OPTICAL PROJECTING SYSTEM. HENRY PHELPS GAGE, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York. Filed July 26, 1919. Serial No. 313,555. 2 Claims. (Cl. 88—24.)



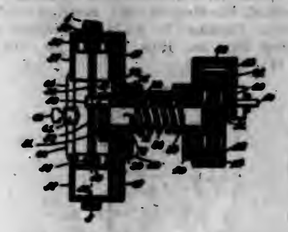
1. In an optical projector, the combination of a light source, a condenser, an objective lens, and a screen to receive the image of the light source, a restricted portion of the condenser focusing the rays from light source in front of the screen, such portions of the condenser and the objective lens together having conjugate foci at the light source and screen when the light source is properly placed to illuminate the picture to be projected and the objective lens is at a given position.

1,395,339. RAILROAD-CROSSING. BENEDICT T. GIBBS, Jr., Chicago, Ill., assignor to Morden Frog & Crossing Works, Chicago, Ill., a Corporation of Illinois. Filed May 26, 1921. Serial No. 472,647. 2 Claims. (Cl. 246—464.)



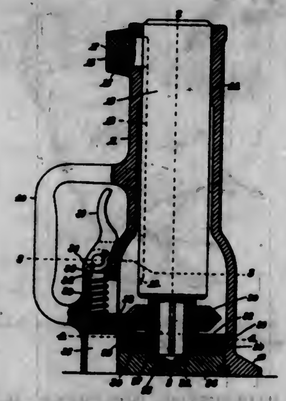
1. In mechanism of the class described, a crossing end having angularly extending therefrom, a horizontally separated rail supporting member and guard rail, forming an open top, U-shaped recess between them against the bottom end of which a rail, laterally supported by the rail supporting member, will abut and fit horizontal flanges extending along the side of the rail supporting member, projecting into the U-shaped recess, and adapted to engage near its top and bottom the side of a rail end in said recess, there being between said flanges a horizontal recess cut into the wall of the rail supporting member, along the length engaged by the rail end, a rail of horizontal flange width too wide to be passed vertically downward parallel to itself from a position above the crossing end to a position therein, but nevertheless adapted to finally fit in the U-shaped opening in engagement with said flanges on the rail supporting member, the whole so arranged and proportioned that by tilting and rocking said rail through several angular positions, it may while its end is in the vertical plane of the U-shaped recess end against which it is to abut, be moved down into the U-shaped recess and placed against the side of the rail supporting member where it is engaged by the flanges thereon, for the purposes set forth.

1,395,340. SPEED-RETARDING DEVICE FOR LIFTING-JACKS. FRANK L. GORMLEY, Brookline, Mass., assignor to A. O. Norton, Inc., Boston, Mass., a Corporation of Maine. Filed July 22, 1920. Serial No. 398,114. 10 Claims. (Cl. 188—99.)



1. In a combination with a lifting jack adapted to lower under the weight of the load and including a load-supporting member, a shaft adapted to be rotated in one direction only, and mechanism between said load-supporting member and said shaft for imparting rotary movement to said shaft during the lowering operation at a speed greater than that of said load-supporting member; a member secured to and revoluble with said shaft; a dash pot; and a piston therein adapted to be reciprocated by said revoluble member.

1,395,341. SELF-LOWERING JACK. FRANK L. GORMLEY, Brookline, Mass., assignor to A. O. Norton, Inc., Boston, Mass., a Corporation of Maine. Filed May 3, 1921. Serial No. 466,497. 15 Claims. (Cl. 254—103.)



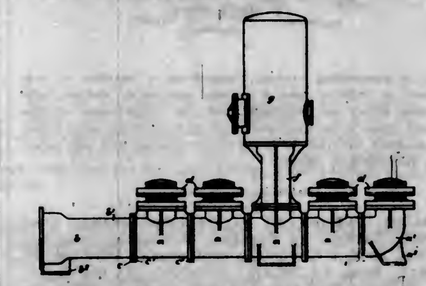
1. The combination of a casing having a cylindrical chamber; a rotatable lifting screw; a movable ram provided with a screw thread coacting with said screw; a ratchet rotatable with said screw; members surrounding said ratchet and having peripheral walls adapted to contact frictionally with cylindrical wall of said chamber; a pawl on each member coacting with said ratchet; and operating mechanism for rotating the screw during the lifting operation.

1,395,342. RESILIENT HEEL. FRANK GRAFFIS, Easthampton, Mass. Filed Feb. 5, 1921. Serial No. 442,666. 3 Claims. (Cl. 36—35.)



1. A heel plate comprising a body of resilient material having a recess in the upper surface thereof, a plate having a plurality of arcuate serrations in the recess, and means for preventing movement of said body in a rearward direction while being assembled.

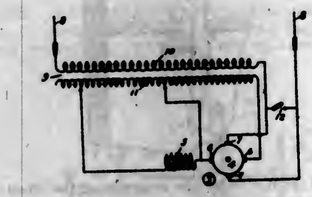
1,395,343. HYDRAULIC RAM FOR RAISING WATER. ROBERT CHARLES GREEN, Winchester, England. Filed Oct. 14, 1918. Serial No. 258,070. 3 Claims. (Cl. 103—29.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a hydraulic ram, a bed comprising a series of separable tubular sections detachably connected together and

arranged end to end, each of said sections, excepting one, being provided with waste valves, the other section being connected to the air chamber vessel.

1,395,344. ARMATURE EXCITED DYNAMO-ELECTRIC MACHINE. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 1, 1916. Serial No. 134,264. 3 Claims. (Cl. 172—276.)



2. The combination with a supply transformer, of a commutator motor connected to the secondary winding thereof, a pair of brushes in position to establish a magnetizing field for said motor, means for connecting said brushes in series relation with the primary winding of said transformer, and means for transferring the brushes to a mutual interconnection embodying a resistor and a reactor that are traversed by the sum of the primary transformer current and the motor magnetizing current.

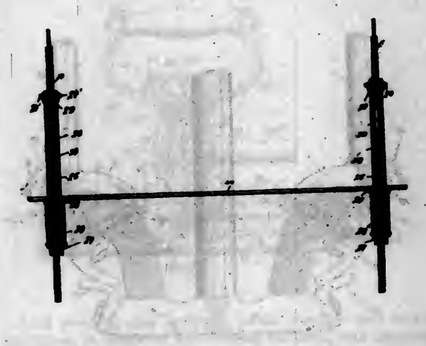
1,395,345. UPRIGHT ELECTRIC TOASTER. HENRY WILLIAM JUTTON, Hamilton, Ontario, Canada. Filed Oct. 2, 1920. Serial No. 414,330. 1 Claim. (Cl. 219—19.)



In an upright electric toaster of the character described, a self contained element supported in mica or other insulating material and reinforced by peripheral metal strips assembled in a metal frame, said element being formed of a continuous coil mounted vertically in a frame and describing inverted curves in a vertical plane, and provided with contact pieces at each end adapted to engage terminal contacts on a base, and means for securing the frame to the base.

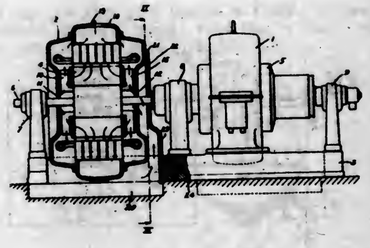
1,395,346. SCAFFOLD. GEORGE J. LUX and JOHN WILCOX, Independence, Kans. Filed July 2, 1918. Serial No. 243,016. 4 Claims. (Cl. 304—29.)

1. A scaffold comprising a plurality of uprights, each having a vertical series of notches arranged in staggered relation, travelers mounted on the uprights, means carried by the travelers for supporting a platform therebetween, a lever oscillatably mounted on each traveler, elevating dogs carried by each lever for engaging the uprights to cause vertical movement of the traveler when the levers are os-



cillated, safety dogs carried by the levers for constant engagement with the uprights, and resilient means for retaining the safety dogs in such engagement.

1,395,347. VENTILATION OF DYNAMO-ELECTRIC MACHINES. ROY A. MCCARTY, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 28, 1917. Serial No. 193,714. 6 Claims. (Cl. 171—252.)

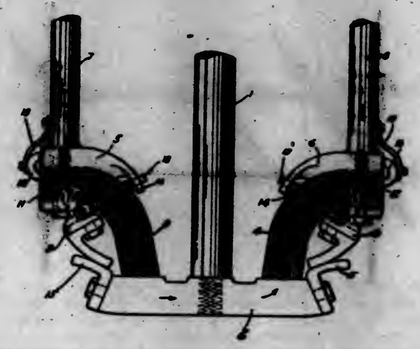


1. In a system of ventilation, the combination with a plurality of dynamo-electric machines mounted in side-by-side relation, one of said machines being provided with an inclosing casing having axial depressions therein, and means for drawing air into the respective ends of said casing, of a baffle member located intermediate said machines and partially closing one of said depressions for preventing heated air from the other of said machines from entering the adjacent end of said first-named machine.

1,395,348. CIRCUIT-BREAKER. JOHN B. MACNEILL, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 20, 1920. Serial No. 425,343. 7 Claims. (Cl. 200—153.)

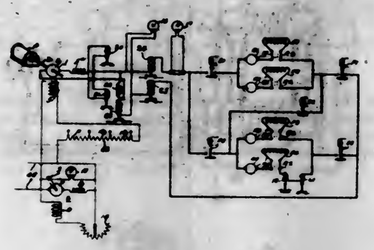
6. In a circuit breaker, the combination with a pair of co-acting main contact members, of two relatively mov-

able auxiliary contact members and means whereby the magnetic forces incident to current traversing the contact



members maintains the auxiliary contact members in engagement.

1,395,349. SYSTEM OF CONTROL. PAUL L. MERRIS, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 3, 1917. Serial No. 146,427. 22 Claims. (Cl. 172—179.)



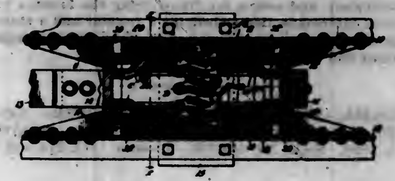
1. In a system of control for an electric vehicle, the combination with a plurality of propelling motors, and a generator for supplying energy to said motors, of means governed in accordance with the current and also with the voltage and current supplied by the generator for simultaneously controlling the circuit relation of the motors and the voltage of the current produced by the generator.

1,395,350. LID-SUPPORT. FRANK OSMER, Glendale, N. Y., assignor to Sonora Phonograph Corporation, a Corporation of New York. Filed Oct. 3, 1919. Serial No. 328,216. 6 Claims. (Cl. 217—60.)

1. A device of the character described, comprising an inclosing member, a cover hinged to the member, an element pivoted to and depending from the cover, an offset on the free end of the element, said offset engaging a device carried by a wall of the member, there being a depression in the device for the reception of the offset when the cover is in raised position.

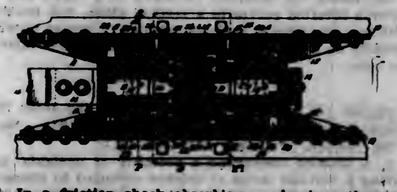


1,395,351. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Mar. 25, 1920. Serial No. 368,669. 4 Claims. (Cl. 213—64.)



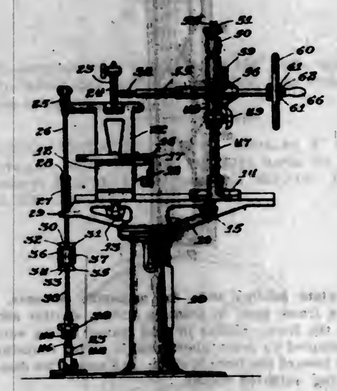
1. In a friction shock absorbing mechanism, the combination with a casting having opposed sets of interior longitudinally extending friction surfaces at each end thereof; of a pair of friction shoes disposed within said casting, each friction shoe having a wedge face at each end thereof; coöperating means on said casting and each shoe for guiding the latter in a direction transversely of the axis of the casting, said means preventing longitudinal movement of the shoes relatively to the casting; spring means interposed between said shoes; and a pair of wedges at each end of said casting, each wedge having a friction surface coöperable with one of the friction surfaces of the casting and a wedge face coöperable with one end of a shoe.

1,395,352. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed May 26, 1920. Serial No. 384,438. 5 Claims. (Cl. 213—64.)



1. In a friction shock absorbing mechanism, the combination with end members relatively movable toward and from each other and provided with interior friction surfaces parallel to the line of relative movement; of a friction member having end sections, the outer surfaces of which frictionally coöperate with said interior friction surfaces of the shells; end friction wedges movable in unison with said end members and having friction surfaces on their outer sides frictionally coöperable with the inner surfaces of said end sections of said friction member; a friction shoe movable transversely of the line of relative movement of said end members and having wedge shaped ends coöperable with said friction wedges; and spring means for yieldingly resisting transverse movement of said friction shoe.

1,395,353. UNIVERSAL TAPPING-MACHINE. WILLIAM C. OSTERHOLM, Chicago, Ill. Filed Dec. 26, 1918. Serial No. 268,344. 5 Claims. (Cl. 10—129.)



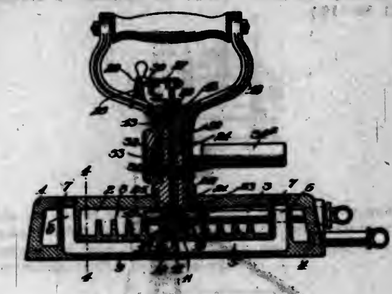
5. In a machine of the class described, the combination of a main frame, a work table supported thereon, a clamping arm pivoted to the work table, a pedal pivoted to the frame, yieldable connections between the arm and pedal, means for holding the pedal in work clamping position, an adjustable and rotatable tool spindle mounted on the frame in operative relation to the work table, and means for operating the spindle.

1,395,354. NON-SLIP DEVICE FOR VEHICLE-WHEELS. EDWARD N. PAGELSEN, Detroit, Mich. Filed Sept. 15, 1921. Serial No. 500,854. 3 Claims. (Cl. 152—14.)



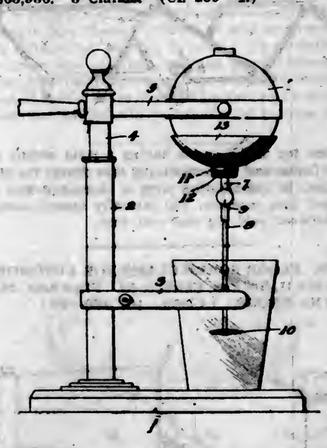
1. An anchoring device for tire chains comprising two similar parts adapted to be secured to a vehicle wheel, each part having a perforated lug through which a chain may pass and a hook on which the chain may be suspended.

1,395,355. PRESSING-IRON. HERMAN W. PETH, Rochester, N. Y. Filed Aug. 21, 1918. Serial No. 250,977. 4 Claims. (Cl. 68—36.)



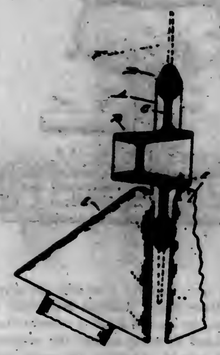
1. A pressing iron having a steam chamber into which the steam is delivered for heating the iron, said chamber having an opening in its top wall, a second chamber having an opening situated directly below the opening in the top wall of the first-named chamber, through which steam is received from said first-named chamber, and also having openings leading through the bottom wall of the iron to discharge steam on the material to be pressed, a handle having a hollow stem formed with a screw threaded portion removably secured in the opening of the top wall, a valve for controlling the opening between the chambers, a valve stem to which the valve is secured, extending through the hollow stem of the handle and removable with the latter and the valve through the opening in the top wall and a packing gland for the valve stem arranged on the hollow stem of the handle.

1,395,356. GUARD FOR DRINK-MIXERS. HUBERT T. PEARSON, Hoquiam, Wash. Filed Mar. 8, 1920. Serial No. 363,936. 3 Claims. (Cl. 259—1.)



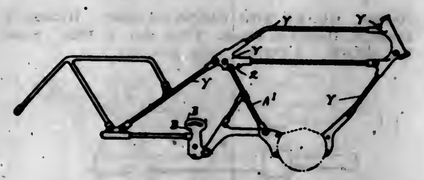
1. The combination with a drink mixer having a motor housing provided with a neck portion through which extends a motor shaft having an agitator carried thereby, of a guard conforming in shape to the housing disposed between said housing and said agitator, said guard having a frictional sleeve portion for engaging the neck portion of said housing for holding the same in position thereon.

1,395,357. METHOD OF MANUFACTURING DISK WHEELS. ALDEN L. PUTNAM, Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 27, 1919. Serial No. 333,859. 6 Claims. (Cl. 80—16.)



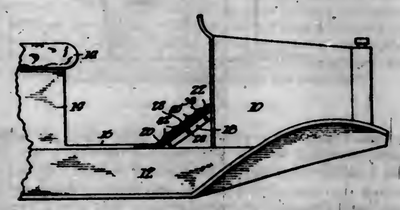
1. The method of forming metal disks, comprising the forging of a blank of smaller diameter than the completed disk and with a thickened peripheral portion sufficient in mass to complete the disk, and in expanding said blank by progressively rolling said peripheral portion and progressively forcing the same outward.

1,395,358. FRAME OF MOTORCYCLES. GEORGE EDWIN RIGBY, Manchester, England. Original application filed June 11, 1918, Serial No. 239,365. Divided and this application filed June 2, 1919. Serial No. 301,290. 1 Claim. (Cl. 208—94.)



A frame for motor cycles having a rigid middle section or main frame and an articulated rear frame for the rear road-wheel, in combination with a shortened seat lug, a lower seat tube member, and laterally spaced connecting means between said lug and seat tube.

1,395,359. FLOOR-BOARD CLAMP FOR AUTOMOBILES. CLARENCE H. ROCKEY, Chicago, Ill. Filed Sept. 26, 1919. Serial No. 326,679. 1 Claim. (Cl. 180—90.)



In combination with two meeting floor boards of an automobile, a member overlapping said boards and pivoted to one of them, there being in said overlapping member at least one notch adjacent to the board to which it is pivoted and at least two notches adjacent to the board to which it is not pivoted, and headed pins on said boards engaging said notches, for the purposes set forth.

1,395,360. LOADER-MAGAZINE FRAME FOR PHOTOGRAPHIC CAMERAS. CHARLES ROTHMEYER, Aulnay-sous-Bois, France. Filed Nov. 9, 1918. Serial No. 261,851. 6 Claims. (Cl. 95—72.)



1. A plate holding slide for magazine cameras, comprising a frame open in front, a sliding shutter adapted to close the front opening in said frame, spring actuated means adapted to press photographic plates contained in the slide toward the front opening, and means for disabling said spring actuated means.

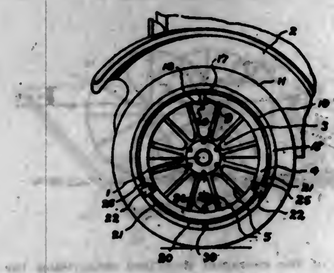
1,395,361. TROUSERS. GEORGE ROTTMAN, New York, N. Y. Filed Jan. 12, 1920. Serial No. 350,946. 6 Claims. (Cl. 2—122.)



1. Trousers having a cut in their legs at the lower extremities of same, a tightening band across each cut, hose supports attached to the lower extremity of each leg at oppositely located points, and a reefing element secured to each leg to coöperate with one of said supports.

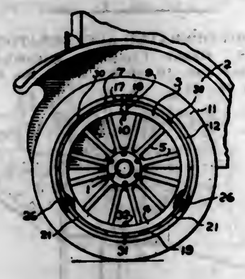
1,395,362. VEHICLE-WHEEL. CHARLES F. RUBSAM, Cleveland, Ohio. Filed Mar. 9, 1918, Serial No. 221,481. Renewed Mar. 19, 1921. Serial No. 453,718. 6 Claims. (Cl. 301—11.)

1. A vehicle wheel comprising a wheel body having a flange, a removable rim for said wheel body and means associated with said rim and wheel body for permitting the former to be swung into position on the latter about a portion of the wheel body as a pivot, said means comprising a plurality of raised bearing members interposed between said rim and wheel body, said bearing members being spaced from each other, certain of said bearing members being included entirely within one and the remainder of said bearing members being included entirely within the other



of two complementary arcs of about 180° each, one of said arcs including that portion of the wheel body about which the rim is swung.

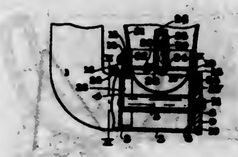
1,395,363. VEHICLE-WHEEL. CHARLES F RUBSAM, Cleveland, Ohio. Filed Apr. 17, 1918, Serial No. 229,069. Renewed Mar. 19, 1921. Serial No. 453,719. 4 Claims. (Cl. 301—11.)



1. A vehicle wheel comprising a wheel body having a flange at the vehicle side, a removable rim for said wheel body, means associated with said rim and said wheel body for permitting the former to be swung into position on the latter about a portion of the wheel body as a pivot, said means comprising a plurality of raised, segmental bearing members interposed between said rim and wheel body, said bearing members being spaced from each other, certain of said bearing members being included entirely within one and the remainder of the said bearing members being included entirely within the other of two complementary arcs of about 180° each, one of said arcs including that portion of the wheel body about which the rim is swung as a pivot, the bearing member on one of said arcs being nearer to one side and the bearing member on the other of said arcs being nearer to the other side of the wheel, and clamping means intermediate certain of said bearing members for clamping the rim in position on the wheel body.

1,395,364. TALKING-MACHINE. WILFRED SAMPSON SAMUEL, London, England, assignor to Barnett Samuel & Sons, Limited, London, England, a Corporation of Great Britain. Filed Apr. 5, 1921. Serial No. 458,665. 3 Claims. (Cl. 274—23.)

1. In a talking machine of the type referred to having an amplifier, a tone arm and a universal joint between said tone arm and amplifier adapted to permit of swiveling movements of the tone arm about horizontal and vertical axes, means for preventing the tone arm swiveling about the vertical axis comprising a tongue on said tone arm and a flat bearing strip on said amplifier, said tongue being adapted to engage with said bearing strip when said tone arm is in the inoperative position, and means for tightening the swivel connection between said tone arm and said amplifier for the purpose of increasing the pressure of said tongue on said bearing strip to prevent the tone arm swiveling about a horizontal axis.

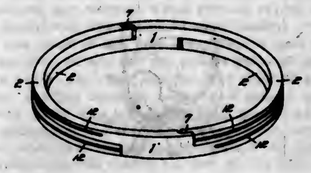


1,395,365. BRAKE-SHOE. THOMAS H. SANFORD, Alexander City, Ala., assignor of one-fourth to Lemuel B. Coley, Alexander City, Ala. Filed Dec. 10, 1920. Serial No. 429,682. 1 Claim. (Cl. 188—246.)



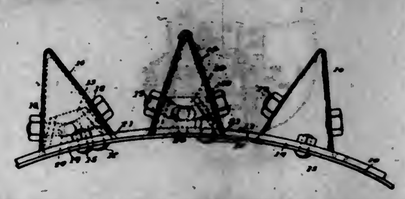
A device of the class described comprising a brake shoe having a plurality of lugs projecting from the convex face thereof, one of said lugs being dove-tailed, a brake head having a plurality of transverse grooves extending across the concave face thereof and one of said grooves provided with a dove-tailed slot for receiving the dove-tailed lug on the brake shoe and the remaining grooves provided with slots for receiving the other lugs, a pocket formed adjacent one of said grooves opposite its slot, and a latch pivotally mounted within said pocket for the purpose specified.

1,395,366. PISTON-RING. JOHN H. SCHREIBER, St. Louis, Mo. Filed Sept. 4, 1920. Serial No. 408,263. 8 Claims. (Cl. 74—109.)



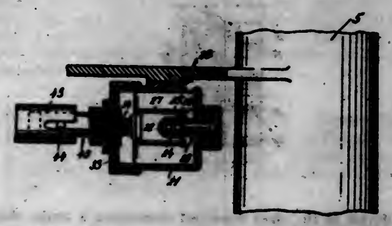
5. A piston ring comprising two ring like sections each having a relatively short central body portion, a pair of diagonally arranged ring members extending from the ends of the central body portion of each ring section a distance approximately one-half the distance around each ring section, the ends of the ring like members being spaced apart sufficient to receive the central body portion of the opposite ring member therebetween.

1,395,367. LUG FOR TRACTION-WHEELS. Hiram R. Sprague, Chicago, Ill., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Apr. 22, 1918. Serial No. 230,023. 7 Claims. (Cl. 301—44.)



1. A substantially V-shaped detachable lug for traction wheels having oppositely disposed apertures in its inclined walls for the reception of securing means.

1,395,368. DISPENSER FOR COMPRESSED AIR. Gregory John Sprague, East Orange, N. J. Filed Nov. 6, 1919. Serial No. 336,132. 7 Claims. (Cl. 221—72.5.)



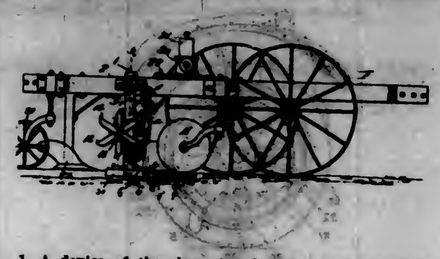
1. In an apparatus for dispensing gas under pressure, the combination of an automatic pressure-reducing valve for varying the outlet pressure of gas passing therethrough, a dial, a manually adjustable indicator cooperating with the dial and operatively connected to the valve, and means tending to hold said indicator in position to close said valve.

1,395,369. VEGETABLE-CUTTER. Harry A. Stoddard and Francis E. Callahan, Columbus, Ohio; said Stoddard assignor to said Callahan. Filed Apr. 28, 1921. Serial No. 464,581. 5 Claims. (Cl. 146—11.)



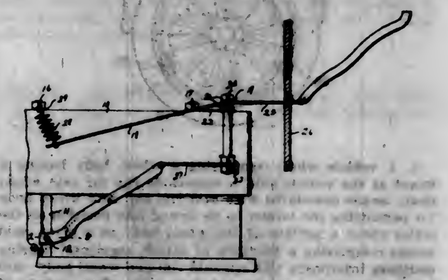
1. A vegetable slicer including a rotary cutter, and a hopper having a feed channel and also having a vertical face plate at one side against which the cutter rotates, said face plate provided with a feed slot at its lower portion below the axis of the cutter communicating at one end with the said channel and gradually decreasing in depth therefrom in the direction of rotation of the cutter.

1,395,370. PLOW AND PULVERIZER. Peter J. Tate, Big Pine, Calif. Filed July 20, 1920. Serial No. 397,571. 3 Claims. (Cl. 97—25.)



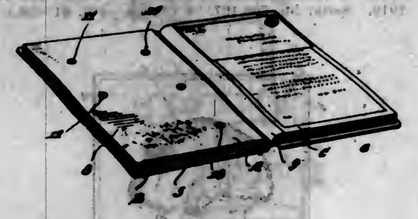
1. A device of the character described comprising the combination, in a wheeled frame, of a beam depending therefrom, a longitudinally extending landside member carried on the lower end thereof, a plow share rigidly mounted on the said member and extending laterally thereof, a mold board hinged to said share for delivery of earth from said share, colters vertically adjustable disposed at opposite sides of said share, means carried by the frame for vertical adjustment of said mold board, beater mechanism in the frame above the rear edge of said mold board and in alinement therewith, and means for operating said beater mechanism.

1,395,371. FOOT-OPERATED ACCELERATOR FOR AUTOMOBILES. Harry Chester Trebabold, Gibson, N. Mex. Filed Jan. 10, 1920. Serial No. 350,629. 2 Claims. (Cl. 74—91.)



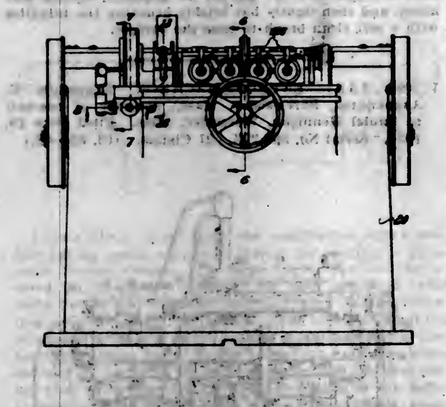
1. An accelerator for automobiles including a bracket adapted to be mounted upon an engine block by one of the engine bolts and providing upper and lower bearings, a bolt rotatably mounted in said bracket, a lever section mounted upon said bolt at the lower end thereof and below said bracket for rotation with the bolt and mounted for adjustment around the bolt, and adapted at its forward end to be loosely connected to a throttle rod, a lever section detachably engaged with the upper end of said bolt and rotating therewith but adjustable around the axis of the bolt and with relative thereto and extending horizontally and then upward and rearward in approximately the same plane for its entire length, whereby said lever may be operated by a sidewise movement of the operator's foot or knee, an arm also attached to the upper end of said bolt for rotation therewith and extending forward therefrom, said arm being adjustable around the axis of the bolt, a spring engaged with the forward end of said arm, and a plate with which the other end of said spring is detachably engaged and having a bolt hole for the passage of an engine bolt.

1,395,372. MAIL-SIGNING BOOK. Nathaniel L. Tookme, Brooklyn, N. Y. Filed July 26, 1920. Serial No. 399,617. 3 Claims. (Cl. 281—38.)



1. A book for facilitating the handling of mail from the stenographer to the dictator comprising a cover and a plurality of leaves formed of blotting material, said leaves having a plurality of sight openings formed therein.

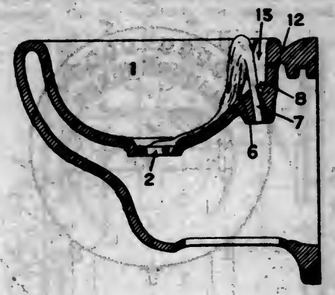
1,395,373. MILLING-MACHINE. Hans H. Wanders, Brookline, Mass. Filed Sept. 9, 1918. Serial No. 253,315. 14 Claims. (Cl. 90—14.)



1. A machine for reducing the journals of a crank shaft, comprising a work carrier which includes rotatable chucks for engaging the opposite ends of the crank shaft, a tool carrier having a plurality of parallel rotatable tool spindles each having a tool thereon and all arranged transversely of the axis of rotation of the chucks, means for moving said tool carrier toward and from the axis of the chucks to cause the tools on the spindles to operate upon the journals on the crank shaft, and means for rotating the chucks and the crank shaft carried thereby.

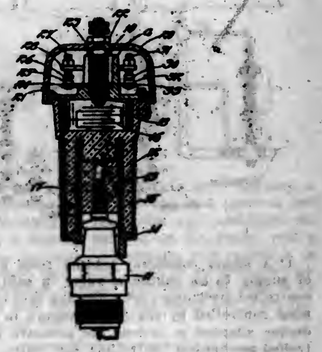
1,395,374. DRINKING-FOUNTAIN. Edward T. Webster, Milwaukee, Wis. Filed July 30, 1919. Serial No. 314,310. 4 Claims. (Cl. 299—12.)

6. A drinking fountain comprising the combination of a bowl having a discharge aperture and provided with an inclined ledge at one side and an inclined side wall leading downwardly from the ledge toward the said discharge aperture, and means for delivering a jet of water in a nearly vertical direction from the ledge at such an angle to the vertical as to allow the water to turn inwardly



and fall to said inclined side wall between the said ledge and the said discharge aperture of the bowl.

1,395,375. SPARK-PLUG-COIL UNIT. Ralph H. Whaley, Detroit, Mich., assignor to Essex Motors, Detroit, Mich., a Corporation of Michigan. Filed Oct. 8, 1919. Serial No. 329,227. 1 Claim. (Cl. 123—148.)



A unit adapted to be secured to a spark plug and comprising a body within which is a chamber containing a central binding post through which current enters, a radial member electrically connected to said binding post and carrying one point of the first spark gap, a semi-circular member carrying at one end the second point of said first spark gap and at the other end the first point of a second spark gap, another member carrying a second point of said second spark gap and electrically connected to the primary winding of a disruptive discharge coil, said spark gap points and their supporting members being supported by insulating material forming a part of the body of said unit.

1,395,376. MACHINE FOR CLEANING SPARK-PLUGS. Arthur White, Sheboygan Falls, Wis. Filed Dec. 23, 1919. Serial No. 347,042. 4 Claims. (Cl. 141—1.)

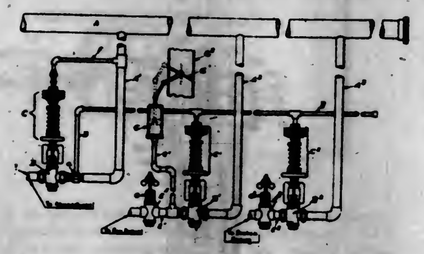
3. A machine of the class described comprising a rotary holder support including circular end members, and a plurality of holder sockets carried by each end member, a plurality of holder bars for spark plugs and the like,

each of said bars being detachably held by corresponding holder sockets, a spray head, and means for moving the



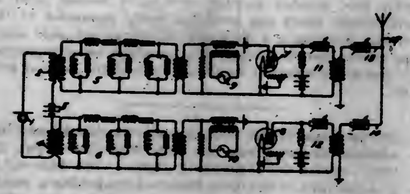
holder support to successively aline the holder bars with the spray head.

1,395,377. SYSTEM FOR REGULATING MECHANICAL STOKERS FOR STEAM-GENERATORS. THOMAS M. WILKINS, East Randolph, N. Y., assignor of one-half to John W. Storke, Erie, Pa. Filed Apr. 16, 1919. Serial No. 290,631. 5 Claims. (Cl. 110—54.)



1. A steam conductor leading from a suitable source of supply to an engine, a valve in said conductor, fluid controlled mechanism for actuating said valve, and mechanism controlled by the fluid pressure in said steam conductor adapted to relieve the pressure in the fluid controlled mechanism controlling said valve.

1,395,378. SECRET SIGNALING. RICHARD H. WILSON, Newark, N. J., and JOHN P. SCHAFER, Richmond Hill, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 29, 1919. Serial No. 327,125. 44 Claims. (Cl. 250—6.)



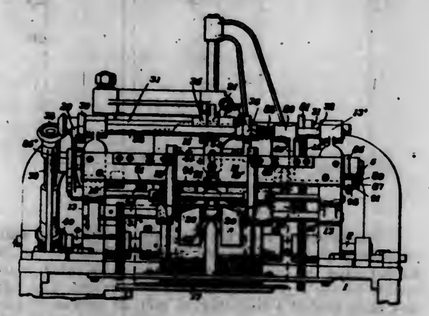
1. The method of electric signaling which comprises separating a signal wave arbitrarily into different parts, transmitting the different parts separately and simultaneously, and recombining the different parts to form a signal wave.

1,395,379. PROCESS OF COLORING INTAGLIOS. MARY B. ADELSPERGER, Chicago, Ill. Filed June 23, 1919. Serial No. 306,167. 4 Claims. (Cl. 41—26.)



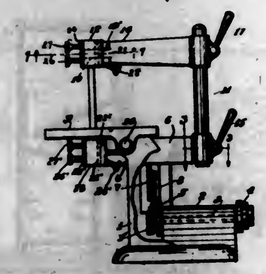
1. The process of coloring intaglios which consists of coating the surface with an adhesive fluid, then applying powders of desired colors to produce the wanted design, then brushing out the powder to secure a smooth mat finish, and then lightly but briskly brushing the intaglios with a soft clean brush to tone the surface.

1,395,380. ENVELOP-MACHINE. FREDERICK E. ARMOUQUINE, Shrewsbury, Mass., assignor of one-half to Daniel Hennigan, Worcester, Mass. Filed June 19, 1920. Serial No. 390,208. 21 Claims. (Cl. 93—68.)



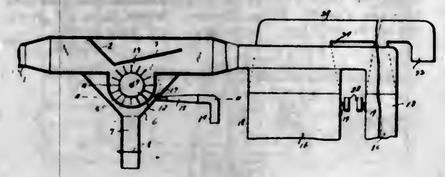
1. In an envelop machine, in combination, a rotary gumming mechanism comprising a bed-cylinder, and a coacting gummer-cylinder provided upon its exterior with gum applying pads formed for imprinting gum successively upon the infold flap and sealing flap in place of edges of an envelop blank; said mechanism being adapted to afford an instant of release to the blank after the gumming contact with the first or infold edge of the advancing blank and before the gumming contact with the last or sealing edge of the blank by the respective pads, means for regulating the register of the blank during the instant of its release, means for rotating said cylinders, and means for feeding the blank to said gumming mechanism.

1,395,381. FILING-MACHINE. FRANK E. BIDDLE, Elkhart, Ind. Filed June 30, 1919. Serial No. 307,792. 6 Claims. (Cl. 29—76.)



1. In a filing machine, a reciprocatory frame; a post on said frame and vertically adjustable thereon; an arm projecting laterally from said post; and file clamping mechanism carried by said arm, said clamping mechanism comprising a holder box, a tiltably adjustable file block mounted in said box; clamping means carried by said box and positioned therein to engage the body of the file for clamping it against the block.

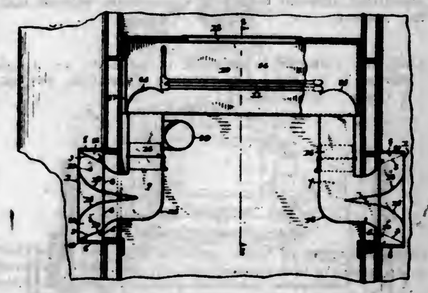
1,395,382. SEED-COTTON CLEANER. CHARLES C BIGGERSTAFF, Rowesville, S. C. Filed May 22, 1920. Serial No. 383,467. 6 Claims. (Cl. 13—19.)



4. In a device as set forth, the combination with a conduit having means connected thereto for creating a pneumatic suction therein, of a baffle having perforations located in the conduit adjacent its inlet end, said baffle plate having an extension plate arranged at an inclination relative to the longitudinal plane of the conduit, to retain the trash and dust that may pass through the perforations of the baffle, means below the extension plate radially in line with the baffle for agitating the seed cotton after being deflected and initially broken by the baffle, a chute carried by the conduit adjacent said means, pneumatic suction means connected to the chute for drawing off the trash and dust therefrom, means arranged in the chute adjacent where said pneumatic means is connected thereto, for drawing the trash and dust into said pneumatic means, said chute having an extension to which a receptacle may be connected for receiving rocks and gravel, said extension having a valve, for controlling the discharge of the rocks and gravel into the receptacle.

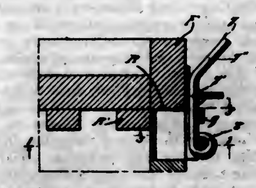
1,395,383. CAR-VENTILATING SYSTEM. PETER B. BOGART, Milwaukee, Wis. Filed Sept. 2, 1919. Serial No. 321,280. 6 Claims. (Cl. 98—23.)

5. A car ventilator including the combination with a car body provided with a cupola, of an exterior elongated air receiving chamber provided at each end with a transverse screen and an interior obliquely disposed screen spaced from the transverse screen to form a settling chamber, passage walls leading from the central portion of the receiving chamber to the interior of the cupola, and depending walls, forming a cinder discharge passage extending underneath the receiving chamber, the bottom of the receiving chamber having apertures through which cinders may pass from the settling chambers to the cinder discharge passage, the space within the cupola being sub-



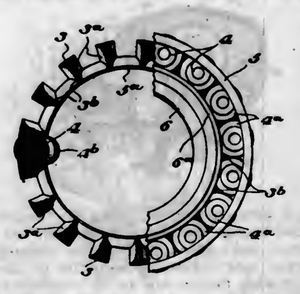
divided to form a heating chamber provided with an outlet leading to the interior of the car body and having transversely extending superposed heating coils interposed in the path of the air passing from the receiving chamber to the heating chamber outlet.

1,395,384. SASH-HANGER. JOHN F. BRODOWSKI, Milwaukee, Wis. Filed Feb. 9, 1920. Serial No. 357,445. 5 Claims. (Cl. 16—171.)



4. In combination, a frame having a sash opening, a sash normally disposed within the said sash opening, but being movable laterally of the frame and positioned exteriorly thereof, a bearing member on the frame, and a pintle pivoted to the sash and slidable and rotatable in the bearing member, said pintle being in coöperative relation with said bearing member both when the sash is located within the sash opening of the frame and when disposed exteriorly of the latter.

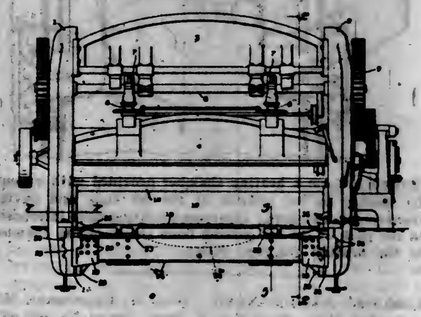
1,395,385. BEARING-CAGE. TRACY V. BUCKWALTER, Canton, Ohio, assignor to Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed July 18, 1918. Serial No. 245,448. 6 Claims. (Cl. 64—62.)



1. The combination with a set of rollers, of an antifriction bearing cage, adapted to be carried by said rollers,

said cage having curved ends and connecting bridges providing roller seats, adjacent bridges having curved bearing surfaces spaced at their inner edges to permit conforming rollers to be entered between them and between said ends and the respective bridges having narrow inner edges permitting adjacent rollers to approximate without making contact.

1,395,386. PRESS. William F. Burditt, Jr., Lyons Farms, N. J. Filed July 17, 1917. Serial No. 181,009. 1 Claim. (Cl. 153—21.)



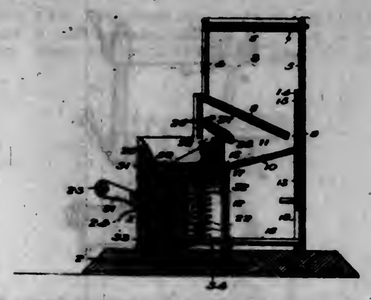
In a sheet metal bending press, the combination with opposite housings providing slideways, a die-holding hammer having an exposed working edge between said housings adapted to receive a die longitudinally of said edge and extending between said housings, means engaging said hammer at a plurality of separated points intermediate its ends for reciprocating the same in its slideways, a die-bed opposed to said hammer with its ends slidably free in the housings and presenting toward the hammer a working edge adapted to receive longitudinally of itself a die extending between the housings, parallel spaced beams extending between the ends of the housings at the opposite side of said die-bed from the hammer, means for connecting said beams to each other and to said housings, and means for supporting said die-bed directly upon the upper face of said beams at a plurality of separated points intermediate its ends, both said die-bed and hammer being unsupported except at said separated points intermediate their ends.

1,395,387. CARBURETER. Leopold F. Buaoss, Riverside, Ill., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Apr. 22, 1918. Serial No. 230,036. 7 Claims. (Cl. 158—87.)



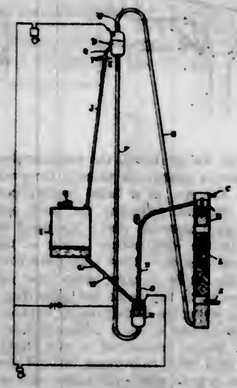
1. In a carbureter, a fuel reservoir, means for supplying fuel thereto, means for maintaining the height of fuel therein, and controlling means for draining said reservoir when said controlling means is in one position, and for causing fuel to flow to the reservoir and return excess fuel to the source of supply when said means is in another position.

1,395,388. MATCH AND TOOTHPICK DISPENSER. John D. Byrn, Butte, Mont. Filed Apr. 8, 1920. Serial No. 371,665. 3 Claims. (Cl. 206—23.)



1. In a dispenser for toothpicks or matches, the combination with a compartment or holder for the toothpicks or matches, of a dispensing slide operating in the front part of said compartment, a stirrer or agitator operating in the rear part of said compartment for the toothpicks or matches, and an operative connection between the dispensing slide and the stirrer or agitator.

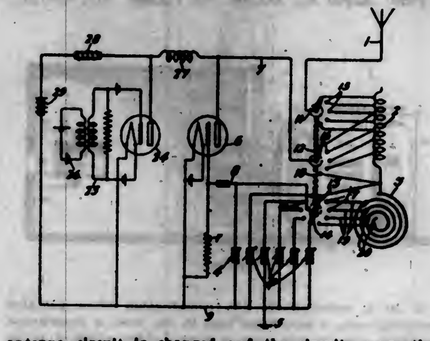
1,395,389. PROCESS FOR THE EXTRACTION OF HYDROGEN FROM GASEOUS MIXTURES. Georges Claude, Paris, France, assignor to L'Air Liquide Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude, Paris, France. Filed Mar. 14, 1918. Serial No. 222,503. 4 Claims. (Cl. 183—117.)



1. The process of extracting hydrogen from gaseous mixtures containing it, which comprises compressing the mixture to a pressure within the range of 400 to 1,000 atmospheres, and circulating the mixture in contact with a solvent liquid which will dissolve, in a single stage, all of the gases except the hydrogen, thus leaving the latter in a practically pure and compressed state.

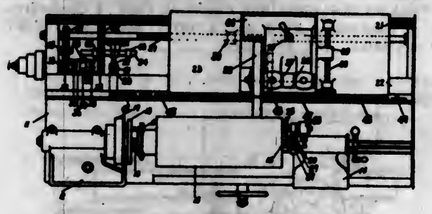
1,395,390. OSCILLATION-GENERATING SYSTEM. Lewis M. Clement, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 30, 1918. Serial No. 256,247. 8 Claims. (Cl. 250—17.)

3. In combination, an antenna circuit, an electric discharge device, means including circuit arrangements whereby said discharge device works directly into said antenna circuit to produce oscillations therein, and means operable by a single movement whereby the period of said



antenna circuit is changed and the circuits connecting said discharge device to said antenna circuit are modified for approximately maximum operating efficiency.

1,395,391. DEVICE FOR TRUING AND DRESSING GRINDING-WHEELS. Edward R. Conners, Covington, Ky., assignor to The Precision Truing Machine and Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 2, 1917. Serial No. 199,889. 13 Claims. (Cl. 125—11.)

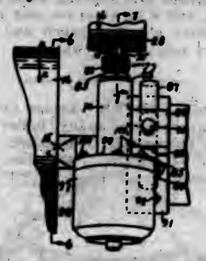


13. In a device for truing and dressing grinding wheels, the combination of a work-support, rotating means thereon for rotating the work, a support for a grinding wheel, rotating means thereon for said grinding wheel, a rotatable abrading part mounted on said work-support and arranged for coaction with said grinding wheel, means mounted on said work-support causing maintenance of rotation of said abrading part, and means for causing movement between said supports lengthwise of the axis of rotation of said grinding wheel for causing alternate coaction between said rotatable grinding wheel and said rotatable work and between said rotatable abrading part and said rotatable grinding wheel.

1,395,392. DEVICE FOR TRUING AND DRESSING GRINDING-WHEELS. Edward R. Conners, Cincinnati, Ohio, assignor to The Precision Truing Machine and Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 18, 1920. Serial No. 366,970. 7 Claims. (Cl. 125—11.)

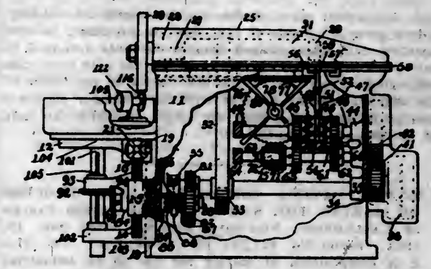
1. In a device for truing and dressing grinding wheels, the combination of a work-support, rotating means thereon for rotating the work, a support for a grinding wheel, rotating means thereon for said grinding wheel, a rotatable abrading pencil mounted on said work-support and arranged for coaction with said grinding wheel, means for rotating said rotatable abrading pencil, and means for causing movement between said supports lengthwise of the axes of rotation of said work and said grinding wheel for selectively causing coaction between said rotatable

grinding wheel and said rotatable work and between said rotatable abrading pencil and said rotatable grinding wheel while maintaining the axes of rotation of both



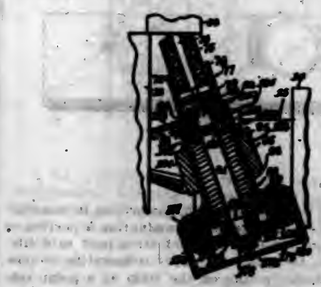
said work and said grinding wheel at proper distance from each other for coaction between said grinding wheel and said work.

1,395,393. MECHANISM FOR TRUING AND DRESSING GRINDING-WHEELS. Edward R. Conners, Cincinnati, Ohio, assignor to The Precision Truing Machine and Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 7, 1920. Serial No. 415,402. 14 Claims. (Cl. 125—11.)



1. In mechanism for truing and dressing grinding wheels, the combination of a grinding wheel, a rotary abrading part, a support therefor, and a rotary magnetic chuck for adjustably positioning and holding of said support with relation to said grinding wheel.

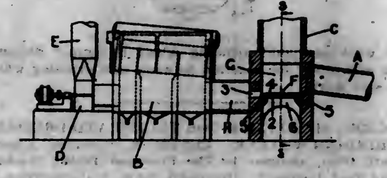
1,395,394. MECHANISM FOR TRUING AND DRESSING GRINDING-WHEELS. Edward R. Conners, Cincinnati, Ohio, assignor to The Precision Truing Machine and Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 7, 1920. Serial No. 415,403. 12 Claims. (Cl. 125—11.)



1. In mechanism for truing and dressing grinding wheels, the combination of a grinding wheel, means for

rotating said grinding wheel, a normally quiescent rotary abrading pencil positioned with its axis of rotation presented toward said grinding wheel, means for causing reciprocation between said grinding wheel and said rotary abrading pencil, and a fly-wheel for said rotary abrading pencil, said rotary abrading pencil and said fly-wheel rotated solely by said grinding wheel.

1,395,395. STACK-DAMPER. ALFRED COTTON, St. Louis, Mo., assignor to Heine Safety Boiler Company, St. Louis, Mo., a Corporation of Missouri. Filed Dec. 10, 1919. Serial No. 343,703. 4 Claims. (Cl. 122—7.)



4. A vertical stack or flue provided with an opening, ledges arranged inside of said stack in proximity to said opening, cylindrical shaped damper elements arranged in said stack in parallel relation to each other with their ends supported on said ledges, and side ledges on the inside of the stack extending parallel with said damper elements and projecting higher than the ledges on which the ends of the damper elements rest.

1,395,396. PAVING COMPOSITION AND PROCESS OF MAKING THE SAME. CHARLES ALFRED CARLES DE CAUDEMBERG, Nice-Gare, France. Filed Jan. 15, 1921. Serial No. 437,587. 2 Claims. (Cl. 106—31.)

2. A composition of matter for use as an industrial product, and resulting from the combination of bitumen with rubber in a proportion of approximately 1–1.50 of rubber to 100 of bitumen, said composition having colloidal properties and a high point of fusion.

1,395,397. DISPLAY APPARATUS. CHARLES E. DELLENBARGER, Chicago, Ill. Filed Sept. 15, 1917. Serial No. 191,548. 12 Claims. (Cl. 40—96.)



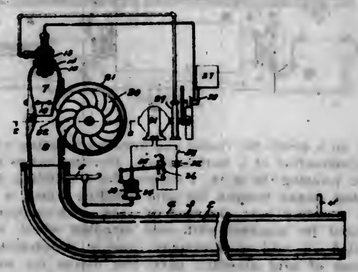
1. A device of the kind set forth, comprising in combination, an endless strip, means for illuminating a portion of said strip, means for drawing said strip past said illuminating means, including a pair of coöperating rollers, and a friction device acting on the strip at a point substantially in advance of the portion being illuminated, whereby said strap is held taut while passing said means.

1,395,398. STEREOPTICON. HERMAN A. DE VRY, Chicago, Ill., assignor to The de Vry Corporation, Chicago, Ill., a Corporation of Illinois. Filed Jan. 24, 1920. Serial No. 353,806. 17 Claims. (Cl. 88—24.)



1. In a stereopticon, the combination of a portable carrying case, a projecting lens in the case, a lamp-house movably held in the case, a plate-holder adapted to be held in the case, a condenser adapted to be held in the case, said lamp-house, condenser and plate-holder being vertically disposed in the case and conjointly movable to a substantially horisontal position outside of the case, and means to support the lamp-house, holder and condenser in a predetermined substantially horisontal operative position.

1,395,399. FLUID-HEATER. WILLIAM A. DOBLE and JOHN A. DOBLE, San Francisco, Calif., assignors to Doble Laboratories, San Francisco, Calif., a Corporation of California. Filed Mar. 2, 1917. Serial No. 151,027. 6 Claims. (Cl. 158—28.)

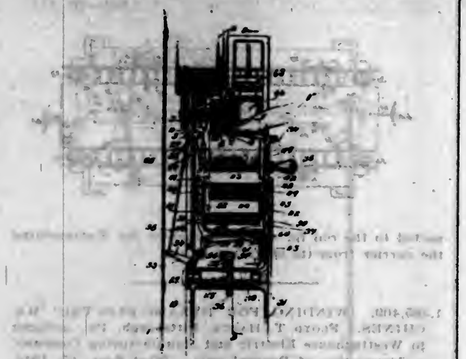


1. A fluid heater comprising a long tube, a jacket surrounding and spaced from said tube and forming with said tube a fluid containing and heating chamber, means for producing a fuel flame and directing it into one end of said tube whereby the products of combustion pass through said tube longitudinally and discharge from the opposite end thereof, a housing connecting the tube and said fuel flame producing means, a fluid inlet pipe connected to the chamber adjacent the gas discharge end of the tube and a heated fluid outlet pipe connected to the chamber at the flame inlet end of the tube.

1,395,400. TIME-RECORDER. RICHARD F. DOWNEY, Milwaukee, Wis., assignor of one-third to Arthur Leich and one-third to Jesse S. Berner, Milwaukee, Wis. Filed Dec. 23, 1919. Serial No. 346,859. 19 Claims. (Cl. 224—44.)

1. In an apparatus of the class described, a finger operable time recording means adapted to record the time

of operation on a sheet, and means extending into the path of the finger operating said recording means for

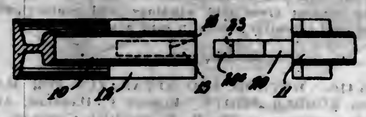


procuring an epidermic impression of said finger simultaneously and on the same sheet with the time record.

1,395,401. MANUFACTURE OF SOLUTIONS, PREPARATIONS, OR COMPOSITIONS HAVING A BASIS OF CELLULOSE ACETATE. HENRY DREYFUS, London, England. Filed Aug. 29, 1919. Serial No. 320,715. 2 Claims. (Cl. 106—40.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. A composition of matter containing cellulose acetate and a cyclo-hexanone.

1,395,402. JOINT FOR STRUCTURES. ANTONY DUDINSKY, New York, N. Y. Filed June 27, 1921. Serial No. 480,511. 1 Claim. (Cl. 238—241.)



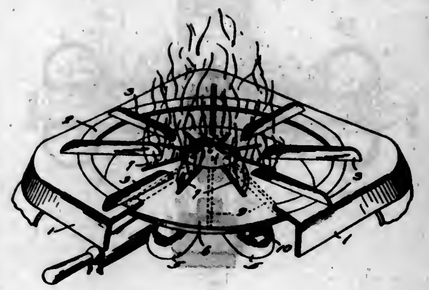
A pair of rail or beam members to be joined one of which is slotted inwardly from one side at the end, the rear portion of said slot being offset to present a shoulder, the slot at the said side of the member terminating short of the extreme rear end of the inner portion of the slot and presenting a short vertical shoulder, the extremity of the inner wall of said offset portion of the slot being curved concentric to the outer point of said last shoulder, the lower wall curving concavely upward to the rear end of the slot, and a complementary tongue formed on the other of said members and adapted to engage in said slot.

1,395,403. BINDING-TIP. STEPHEN IVEN FEKETE, Detroit, Mich., assignor to Essex Motors, Detroit, Mich., a Corporation of Michigan. Filed July 2, 1920. Serial No. 393,684. 3 Claims. (Cl. 206—135.)



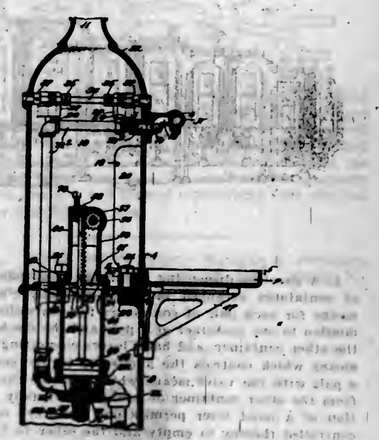
1. The binding tip comprising a cap to inclose the end of the binding with which it is to be used and an attaching shank forming an extension of the back side of the cap and concealed by the binding.

1,395,404. GAS-BURNER ATTACHMENT. JAMES R. FLICK, Vineland, N. J. Filed Apr. 8, 1920. Serial No. 372,233. 2 Claims. (Cl. 158—113.)



1. An attachment for the burners of gas stoves, comprising a frusto-conical casing or shell provided with slots extending radially from a central opening, narrow radial ribs extending from the inner surface of the shell and symmetrically arranged intermediate said slots to provide shallow converging channels, the inner edges of the ribs being substantially parallel with the inner surface of the shell.

1,395,405. LIQUID-DISPENSING APPARATUS. WILLIAM S. FOLANT, Stoneham, Mass., assignor to Standard Oil Company of New York, New York, N. Y., a Corporation of New York. Filed July 9, 1919. Serial No. 309,655. 12 Claims. (Cl. 221—103.)



1. An apparatus of the character described having, in combination, pumping devices including a single actuating member, means connecting said pumping devices with a plurality of supply reservoirs holding different kinds of liquids, and means for regulating the pumping devices to cause the same to pump from either reservoir exclusively or from a plurality thereof simultaneously, said pumping devices including a separate delivery conduit for each kind of liquid that is pumped.

1,395,403. GREASE AND OIL CUP. JOHN WM. FRANZ, St. Louis, Mo., assignor of one-half to Edwin A. Hoffmann, St. Louis, Mo. Filed Jan. 26, 1921. Serial No. 440,917. 3 Claims. (Cl. 184—1 P.)



1. A grease cup provided with a closure plug, one face of said plug carrying a type.

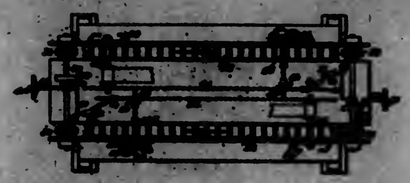
1,395,407. DISPENSING APPARATUS. DAVID G. FRANKS, University, Mo. Filed Mar. 18, 1920. Serial No. 366,873. 6 Claims. (Cl. 221—100.)



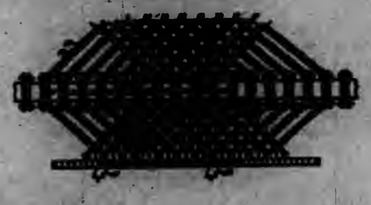
1. A gasolene dispensing apparatus comprising a series of containers arranged in pairs, normally closed valve means for each pair of containers for controlling the admission to one container of a pair and the discharge from the other container, and hand levers connecting the valve means which controls the admission to one container of a pair with the valve means which controls the discharge from the other container of said pair, whereby the operation of a hand lever permits one container of the pair controlled thereby to empty and the other to fill, the filling and emptying of said containers being simultaneous.

1,395,408. LUMBER EDGING AND MATCHING MACHINE. HENRY A. GALE, Fitchburg, Mass., assignor to Gale Box Machinery Company, West Fitchburg, Mass., a Corporation of Massachusetts. Filed May 17, 1921. Serial No. 470,246. 8 Claims. (Cl. 144—39.)

1. In a machine for edging and matching lumber, the combination with a carrier for the lumber, means for operating the carrier, a matcher head movable bodily into and out of operative position, a controlling rod having connections for moving the matcher head, and means connected to the rod for operation thereby for disconnecting the carrier from its operating means.

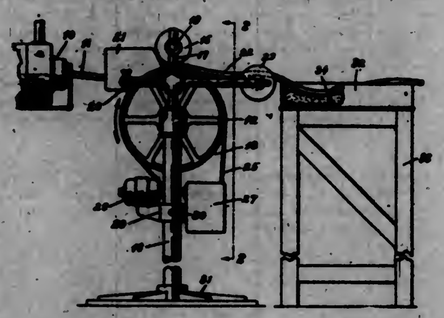


1,395,409. WINDING FOR DYNAMO-ELECTRIC MACHINES. FLOYD T. HAGUE, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 15, 1916. Serial No. 120,200. 14 Claims. (Cl. 171—238.)



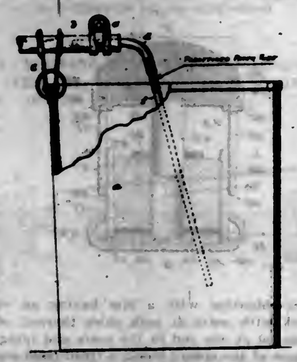
1. In a dynamo-electric machine, the combination with an armature core, of a plurality of distinct windings of different coil-pitch mounted thereon, means for communicating current from said windings, and connections between equi-potential points in said windings.

1,395,410. METHOD AND APPARATUS FOR MARKING RUBBER STRIPS. ROBERT P. HASSLER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Aug. 1, 1921. Serial No. 488,751. 9 Claims. (Cl. 18—1.)



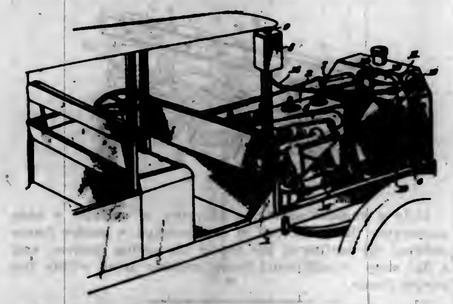
1. The method of marking rubber strip stock which comprises progressively impressing an intaglio marking in the surface of the raw rubber strip, filling the impressions to prevent their closure, and vulcanising the strip without a mold.

1,395,411. ICE-MACHINE. PHILIP HESSEL, Norfolk, Va. Filed July 31, 1920. Serial No. 400,467. 2 Claims. (Cl. 62—159.)



2. In an ice machine of the type set forth, a downwardly-turned supporting tube, and a delivery-tube made of paraffin-coated paper having its upper end fitted up into said depending supporting-tube, the coating on the tube serving to seal the end thereof in said delivery-tube.

1,395,412. FUEL-SUPPLY SYSTEM FOR INTERNAL-COMBUSTION ENGINES. CLARENCE O. HOFFMANN and WILLIAM A. MCKINNON, Detroit, Mich. Filed Oct. 18, 1917. Serial No. 197,227. 1 Claim. (Cl. 123—122.)

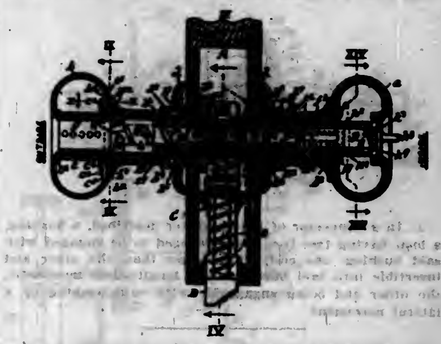


In a motor vehicle power plant which includes a radiator having a hollow upper chamber, an engine having a jacket communicating with the radiator, and a carbureter adapted to supply fuel to the engine, means for utilising the fuel for cooling the engine and for utilising the heat of the engine to raise the temperature of the fuel prior to its admission to the cylinder, comprising a fuel tank placed at a higher level than the level at which liquid is to be maintained in the radiator, a pipe connected to said tank and extending to the upper chamber of the radiator, a float controlled valve for said pipe within the upper chamber of the radiator, adapted to maintain the fuel at a substantially constant level within the radiator and a pipe connecting the top of the radiator below the fuel level with said carbureter to conduct warm fuel thereto.

1,395,413. ART OF MIXING RUBBER WITH COMMINUTED METAL. HARRY A. HOFFMAN and WALTER H. JUVE, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Mar. 31, 1920. Serial No. 370,256. 8 Claims. (Cl. 106—23.)

8. A composition of matter comprising vulcanized rubber through which is distributed finely-divided lead whose individual particles are immediately surrounded by rubber containing petrolatum.

1,395,414. KNOB-LOCK. LOUIS HUFFMAN, Toronto, Ontario, Canada. Filed Feb. 19, 1919. Serial No. 278,102. 20 Claims. (Cl. 70—91.)



5. In an apparatus of the kind described, the combination of a reciprocating yoke having a longitudinal guide thereon, a sleeve having exterior screw threads having its inner end shaped to engage said guide to prevent the rotation of said sleeve, an escutcheon threaded upon said sleeve for the purpose described, and an adjustable locking means adapted to connect the outside knob with said sleeve so as to prevent the rotation of the knob.

1,395,415. CHAIN-LINK CONNECTOR. HUGH T. HUGHES, Cleveland, Ohio, assignor to The Cleveland Chain & Mfg. Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 3, 1921. Serial No. 434,456. 7 Claims. (Cl. 24—68.)



5. In a chain connector, a lever provided at one end with a fulcrum link carrying a chain link and arranged and pivoted to normally extend at one side of the lever when closed, said link and lever being adapted to extend through the adjacent link of the chain to be connected, the arrangement being such that the lever will be normally held closed, the free end thereof interlocking with the link carried by said fulcrum link.

1,395,416. HOSE-SUPPORTER. WILLIAM S. HUNKINS, Los Angeles, Calif. Filed July 16, 1921. Serial No. 485,377. 4 Claims. (Cl. 24—76.)



1. A connector of the character described comprising, a tubular bushing having a relatively short opening in its top side at one end, a loop having two disconnected ends arranged to be inserted in and carried by the bushing, one end being longer than the said top opening in the bushing, the other end being of such length that when the loop is inserted in said bushing with the bend adjacent the long end inserted in said top opening, said short end may be inserted in the other end of said bushing.

1,395,417. HOSE SUPPORTER. WILLIAM S. HUSKINS, Los Angeles, Calif. Filed July 16, 1921. Serial No. 485,378. 4 Claims. (Cl. 24—76.)



1. In a connector of the character described, a bushing, a loop having two free ends arranged to be engaged with said bushing, one end being longer than the other and insertible into said bushing by a longitudinal movement, the other end being engageable with said bushing by a lateral movement.

1,395,418. GOLF-BALL-MARKING DEVICE. ADOLPH G. HUFFMAN, Reno, Nev. Filed Feb. 7, 1921. Serial No. 443,120. 18 Claims. (Cl. 101—39.)



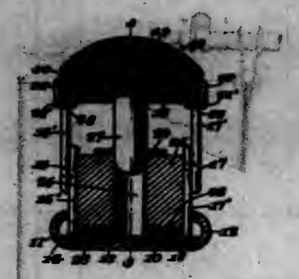
1. In a golf-ball marking device, the combination of a main frame-member; a base-member mounted upon said frame-member and having a fixed surface upon which a ball is adapted to roll; and an oscillatory lever mounted upon said frame-member and provided with marking means.

1,395,419. DISPLAY-STAND. HENRY M. HUTCHINS, New York, N. Y. Filed July 3, 1919, Serial No. 308,566. Renewed Aug. 31, 1921. Serial No. 497,298. 2 Claims. (Cl. 211—24.)



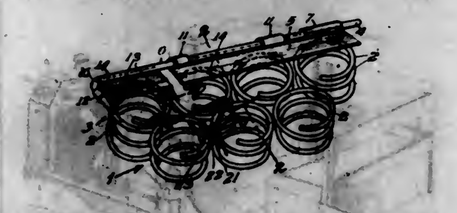
1. In a display stand, the combination with a base having a socket formed therein, of a support adapted to be separably connected with said base, means for connecting said support and base, comprising a threaded member carried by said support, and projecting downwardly through an opening formed therein, a resilient element positioned upon the downwardly projecting portions of said member, said element being arranged to snugly fit within said base socket, and means for compressibly engaging said element to control the effective diametric area thereof.

1,395,420. SPRING-TIRE. EVANS S. JOHNSON, Louis, Okla. Filed Mar. 3, 1921. Serial No. 449,882. 3 Claims. (Cl. 152—8.)



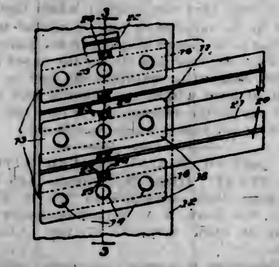
3. The combination with a rim having an encircling spacer block with seats at both sides thereof, of helical springs engaged at one end in the seats and lying against opposite faces of the spacer block, a tread band comprising pivotally connected links having perforated fingers against their inner faces constituting seats in which the outer ends of the springs are received and a tread mounted upon and encircling the tread band.

1,395,421. CUSHION-SPRING. GUSTAVE P. JOHNSON, Waukegan, Ill. Filed Mar. 24, 1921. Serial No. 455,043. 7 Claims. (Cl. 5—29.)



1. In a cushion spring, a plurality of springs, a base supporting the lower end of said springs, a border frame defining the outline of the top of the spring cushion, and a flat strip or additional frame member lying within the border frame.

1,395,422. TRACTION-WHEEL. EDWARD A. JOHNSTON, Chicago, Ill., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed May 21, 1917. Serial No. 170,049. 6 Claims. (Cl. 301—44.)



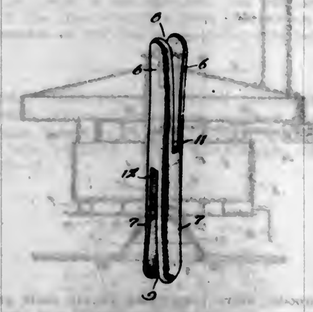
1. In combination, a wheel having a supporting portion, shouldered members permanently connected to said supporting portion, a removable lug supported on said wheel by the shouldered members, said supporting portion, shouldered members and removable lug having registering openings, and means received by said registering openings to lock the removable lug on said wheel.

1,395,423. ROOFING-TILE. RICHARD JOSEPH, Massillon, Ohio. Filed May 17, 1921. Serial No. 470,316. 2 Claims. (Cl. 108—10.)



1. In a roofing tile, a body of plastic material, a transverse rib arranged to engage the roofing strip and a hooked member slidably mounted through said rib and arranged to engage the roofing strip.

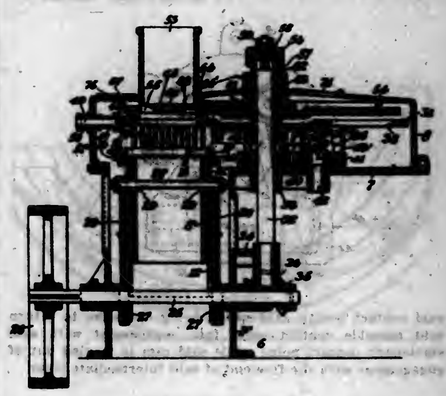
1,395,424. CLOTHESPIN. THEODORE S. JUSTUS, Chicago, Ill. Filed Nov. 1, 1919. Serial No. 335,071. 1 Claim. (Cl. 24—138.)



A clothes pin of integral construction, comprising a solid body provided at each end with a pair of longitudinally extending spaced forks, the transverse axes of said pairs of forks being disposed at right angles to each other, and the slots between the forks of the respective pairs being terminated at their inner ends in spaced relation so as to leave a solid portion between the slots adapted in conjunction with the other pair of forks to resist the spreading strains imposed upon either pair of forks.

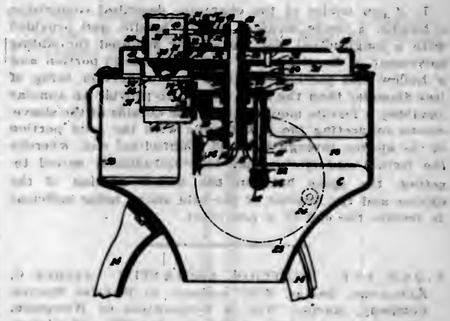
1,395,425. APPARATUS FOR CUTTING FRUIT, VEGETABLES, AND THE LIKE. JOSEPH E. KENNEDY, New York, N. Y. Filed Nov. 29, 1918. Serial No. 264,494. 38 Claims. (Cl. 17—18.)

1. In a vegetable cutter and the like, the combination of a holder for the vegetable, means to cut successive slices from the vegetable, a series of parallel and spaced apart cutters to which the slice is delivered as it is cut from the vegetable to cut the successive slices into a plurality of strips, a second series of parallel and spaced apart cutters and extending transverse to the first series of cutters to which the cut strips are delivered as they are cut to cut the strips into cubiform parts, and means to move the cutters to cut the slice into strips and cubi-



form parts transverse to the movement of the slicing cutter to cut the slice in the manner and for the purpose specified.

1,395,426. APPARATUS FOR CUTTING VEGETABLES AND THE LIKE. JOSEPH E. KENNEDY, New York, N. Y. Filed Apr. 29, 1919. Serial No. 293,572. 20 Claims. (Cl. 17—18.)

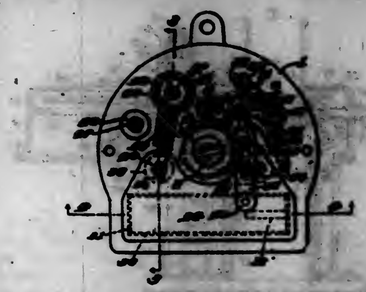


1. The combination of a hopper; a table to support an article in the hopper to project therefrom, a revoluble cutter interposed between the hopper and table to slice the portion of the article projecting from the hopper; means of adjustment between the table and the hopper and cutter to cut slices of variable thickness; a series of blades to which the slice is delivered as it is cut to cut the slice into strips; and a second series of blades extending transverse to the first blades to which the strips are delivered as they are cut to cut the strips into cubiform parts.

1,395,427. ELECTRIC-CONTACT DEVICE. ARTHUR ATWATER KENT, Rosemont, Pa. Filed Sept. 23, 1916. Serial No. 121,806. 11 Claims. (Cl. 123—148.)

1. In a contact device the combination of a rotatable cam, a stationary contact point support, a short light sheet metal pivoted lever, and a movable contact point carried substantially at the free end thereof, a spring having one end attached to the free end of said lever and acting to hold said movable contact point against said stationary contact point, and a light lever having its free

end between said cam and the free end of said lever, and operative to transmit motion from said cam directly to the free end of said lever to intermittently separate



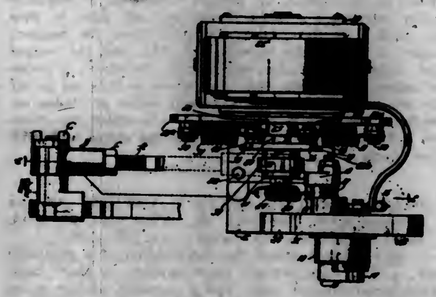
said contact points, said spring being operative to return said movable contact point into engagement with said stationary contact point while said cam is moving out of engagement with the free end of said intermediate lever.

1,395,428. PENHOLDER. HARRY KERLIN and JOHN R. MALANEY, Birmingham, Ala. Filed Apr. 15, 1921. Serial No. 461,628. 2 Claims. (Cl. 120—101.)



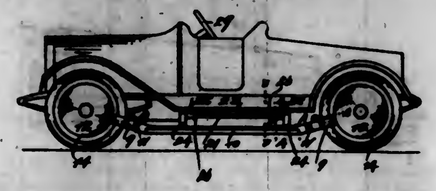
1. A pen holder of the character described comprising a handle, a sleeve mounted on the handle, and provided with a longitudinal slot, an ejector mounted for sliding movement in the sleeve and including a solid portion and a hollow end portion, the said hollow portion being of less diameter than the solid portion to provide an annular shoulder, a ferrule mounted upon the outside of the sleeve, means connecting the said ferrule with the solid portion of the ejector through the said longitudinal slot, whereby the ferrule and ejector may be longitudinally moved together, the space between the hollow portion of the ejector and the interior of the said sleeve being sufficient to receive the end of a pen point.

1,395,429. IGNITION APPARATUS. ARTHUR C. KLECKNER, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a Corporation of Wisconsin. Filed Sept. 18, 1920. Serial No. 411,065. 18 Claims. (Cl. 123—149.)



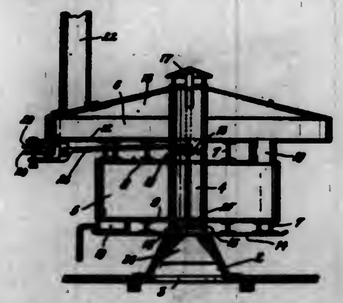
1. An ignition apparatus comprising an oscillatory push finger, an arcuate surface adjacent said push finger, said arcuate surface constituting part of the circumference of a circle having the push finger axis as its center, and an engine-driven actuator arranged to engage and move the push finger, the actuator being provided with means arranged to cooperate with said arcuate surface to disengage the actuator from the push finger when the latter has been moved through a predetermined angle.

1,395,430. WHEEL-LOCK FOR AUTOMOBILES. HARRY KRAMER, New York, N. Y. Filed Apr. 26, 1920. Serial No. 376,436. 3 Claims. (Cl. 188—31.)



1. In a lock for vehicle wheels, a clamping device pivotally connected to said vehicle adjacent a wheel, a locking element carried by the pivot for said clamping device, and means to engage said locking element when the clamping device is moved to non-use position to maintain the clamping device in said non-use position.

1,395,431. BROODER-STOVE. JESSE E. KRESKY, Petaluma, Calif. Filed Jan. 21, 1920. Serial No. 352,974. 14 Claims. (Cl. 237—8.)



18. A brooder stove comprising an air shaft provided with apertures, a radiator surrounding said shaft and heating the air therein and means operative by variations in the temperature of the air discharging from said shaft for varying the volume of air passing through said shaft.

1,395,432. CLEAT FOR TRACTOR-WHEELS. JOHN MINOR KNOYER, Stockton, Calif. Filed May 21, 1920. Serial No. 383,181. 1 Claim. (Cl. 301—43.)



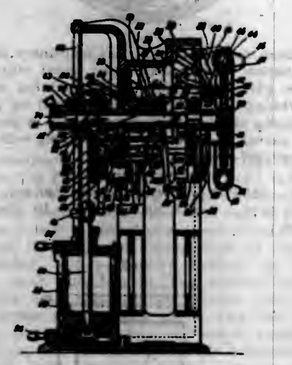
The combination with a wheel of a series of cleats secured to the rim, and disposed in angular relation with respect to the axis of the wheel, the opposed faces of the cleats inclining toward each other from the rim outwardly, the end edges of the cleats being parallel to the edges of the rim and the end faces of the cleats inclining toward each other from the peripheral surface of the rim outwardly.

1,395,433. STOVE. FRANK KRUX, Chicago, Ill. Filed June 7, 1920. Serial No. 387,128. 2 Claims. (Cl. 126—1.)



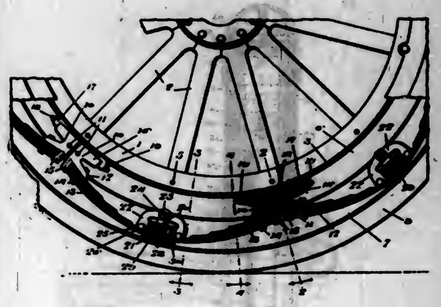
1. A duplex stove comprising a casing having a cover plate, a firebox contained centrally within the casing, ovens and boilers contained side by side within the casing and spaced from each on each side of said firebox, but connected at their tops, upright partitions rising in the respective spaces between the ovens and boilers, the upper ends of said partitions being lower than the connections between the ovens and boilers, a single flue communicating with the firebox and extending in opposite directions therefrom the full depth of the ovens, boilers, and partitions throughout the length of said flue, said flue having the cover plate for its upper wall and extending straight across the tops of the ovens and boilers, hence down the sides of the boilers, under said boilers, and upwardly between the partitions and the boilers, thence over the upper ends of the partitions, thence downwardly between the partitions and the ovens, and finally under the ovens and thence leading to an outlet, and a partition depending from the cover phlate into the firebox for splitting the hot air currents from the firebox to cause a part thereof to travel in one direction and another part to travel in the other direction from said firebox whereby both branches of said flue are supplied with hot air currents.

1,395,434. TIRE-CORE-STRIPPING MACHINE. CURT KUENTZEL, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Apr. 26, 1920. Serial No. 376,587. 36 Claims. (Cl. 18—2.)



1. In a machine for stripping tire casings from cores, the combination of core-supporting means, and a semicircular series of tire-stripping members having a substantially fixed relation to the core circumferentially thereof and adapted to act radially thereof to force an edge of the tire casing over the core on one part of the tire circumference while the opposite part remains substantially fixed on the core until the first-said part is clear.

1,395,435. RESILIENT WHEEL. HERBERT S. LANCASTER, Wabash, Ind. Filed Dec. 30, 1919. Serial No. 348,347. 7 Claims. (Cl. 152—37.)



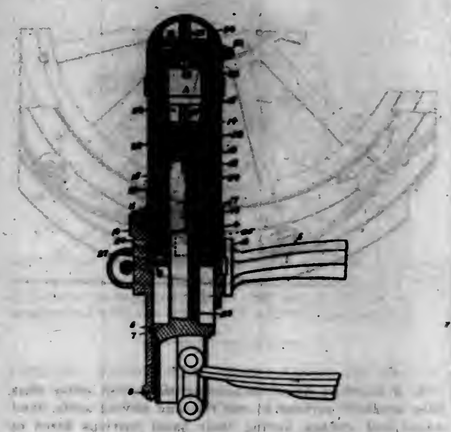
2. A resilient wheel embodying inner and outer rims, base members pivoted to one rim and having seats, laminated leaf springs having their basal portions fitted on said seats, and their free ends connected to the other rim, means for securing said springs on said seats, and means for adjusting said base members.

1,395,436. TURNING-TOOL. FREDERICK K. LAWRENCE, Chicago, Ill. Filed Mar. 8, 1920. Serial No. 364,129. 2 Claims. (Cl. 81—177.)



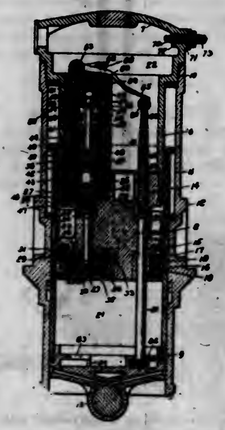
1. A turning tool having a universal joint, yokes pivotally connected together and each having a collar surrounding one part of the universal joint for steadying the same, a steadying handle fastened to one of said yokes, said handle having a cylindrical inner surface and an extension making a running fit with the inside of the handle, said extension being connected to one part of the universal joint for rotating it, and means for rotating said extenson relatively to the handle.

1,395,427. MAGNETIC SPRING. RICHARD LIEBAU, New Haven, Conn., assignor to The Westinghouse Air Spring Company, a Corporation of Pennsylvania. Filed Feb. 26, 1919. Serial No. 279,430. 4 Claims. (Cl. 267—22.)



1. The combination with a vehicle frame and the steel springs, of electromagnetic means between said frame and one end of each of said steel springs and constructed to operate in series therewith in resiliently supporting said frame.

1,395,438. AIR-SPRING SUSPENSION. RICHARD LIEBAU, New Haven, Conn., assignor to The Westinghouse Air Spring Company, a Corporation of Pennsylvania. Filed Feb. 26, 1919. Serial No. 279,435. 9 Claims. (Cl. 267—22.)



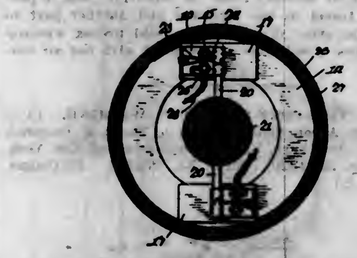
1. In combination with an air spring having telescoping members forming a cushion chamber, a pump arranged to discharge air into said chamber and means the operation of which is independent of the relative movement of said means for operating said pump and a device within said air spring for controlling the operation of said means.

1,395,439. INNER TUBE. LILES H. LIGHTFOOT, Signal Mountain, Tenn., assignor to Du Bois Rubber & Tube Company, Chattanooga, Tenn. Filed June 11, 1921. Serial No. 476,669. 2 Claims. (Cl. 152—13.)



2. An inner tube for pneumatic tires comprising a tubular member of elastic material, said tubular member being formed with outwardly curved central portions in its base tread and sides respectively, and inwardly curved portions in said tread and base, merging into said outwardly curved portions, the inwardly curved portions in the base being substantially shallower than the inwardly curved portions in said tread.

1,395,440. BRUSH-HOLDER. ALBERT THOMAS LOCHNER, Chicago, Ill., assignor to Wodack Electric Tool Corporation, Chicago, Ill., a Corporation of Illinois. Filed July 17, 1919. Serial No. 311,494. 15 Claims. (Cl. 171—324.)



1. A brush holder for electrical machinery comprising, in combination, a one piece sheet metal clip having a transverse guideway at one end, a retaining member extending through said clip, a nut threaded on the end of said retaining member to clamp said clip in position, and a spring having a stationary end engaging said nut so as to be supported thereby.

1,395,441. PISTON. ELMER C. LONG, Quincy, Ill. Filed Dec. 9, 1918. Serial No. 265,947. 10 Claims. (Cl. 74—108.)



1. A piston having a tongue-shaped portion formed on its peripheral face, and a longitudinally formed slot extending into said tongue portion.

1,395,442. SPRAY-NOZZLE. PETER GRAHAM MACGREGOR, New York, N. Y., assignor to Pyrene Manufacturing Company, a Corporation of Delaware. Filed Dec. 18, 1918. Serial No. 267,289. 3 Claims. (Cl. 299—115.)



1. A spraying nozzle consisting of a casing having a chamber formed therein and a restricted orifice through the end wall thereof, a gyrator loosely mounted in said chamber and free to move into close contiguity to the end wall of the chamber, said gyrator comprising a cylindrical body having a central passage therethrough and a spiral passage formed in its periphery, the forward end of said gyrator being conical and the opposed inner wall of the chamber adjacent the orifice being curved.

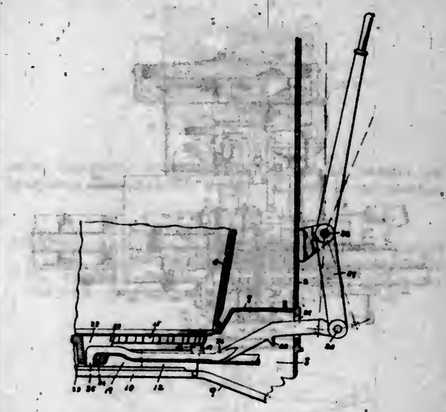
1,395,443. FASTENING DEVICE. FREDERICK E. MARKERT, New York, N. Y., assignor to John Boyle & Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 19, 1921. Serial No. 438,398. 6 Claims. (Cl. 241—221.)



5. The combination with an article of the character described, having a folded edge of fabric and a reinforcing member within the fold, of a metal fastening device having a body portion in contact with one face of said edge portion, a pair of spaced prongs extending from said body portion through said fabric, back of said reinforcing member, and bent down against the face of said fabric over said member, and another prong extending from said body portion around said margin and bent down against said fabric and the inclosed reinforcing member, the last mentioned prong lying between the spaced prongs of the first mentioned pair, whereby said body portion and prongs firmly embrace and completely surround the folded edge of said article and the inclosed reinforcing member.

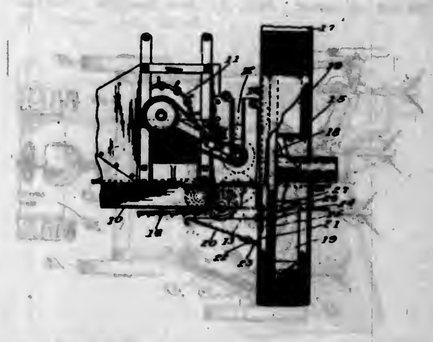
1,395,444. GRATE. WILLIAM L. MERSFELDER, Detroit, Mich., assignor to Detroit Stove Works, Detroit, Mich., a Corporation of Michigan. Filed Jan. 15, 1921. Serial No. 437,439. 2 Claims. (Cl. 126—170.)

1. In a grate, the combination of a base and a grate ring rotatably supporte.. thereon, a shaker bar having a hooked rear end, said grate ring having a depending lug provided with a substantially L-shaped pocket to receive



said hook, and means to reciprocate said shaker bar to rotate the grate ring.

1,395,445. ENSILAGE-CUTTER. GEORGE M. MERWIN, Berwyn, Ill., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Jan. 26, 1918. Serial No. 214,015. 1 Claim. (Cl. 146—26.)

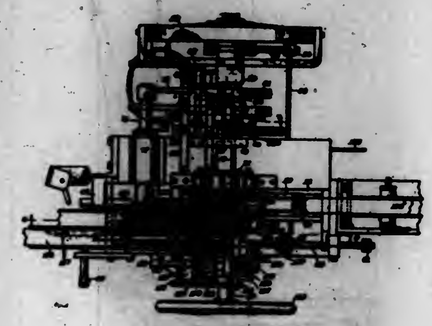


In a feed cuttter and conveyer, a fan and cutter casing provided with an upper opening in which material to be cut is fed, a feed mechanism to feed material to said upper opening, cutting and fan mechanism in said casing and said casing having a lower opening to receive material dropped from said feeding-mechanism, a common pneumatic passage for said casing to discharge material received through both of said openings, and means for regulating the size of the lower opening to modify the suction effect of said fan discharge.

1,395,446. BOX-MAKING MACHINE. MICHAEL J. MILMOE, Glenellyn, Ill., assignor to W. C. Ritchie & Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 5, 1920. Serial No. 349,585. 10 Claims. (Cl. 93—40.)

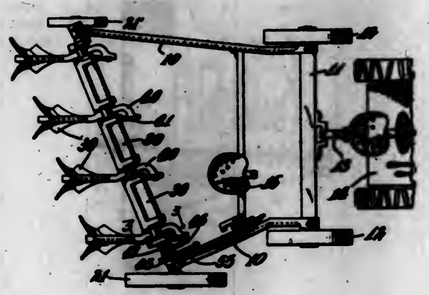
8. In a machine of the character described, the combination of a form, means to construct open-end paste-

board cover-shells on said form in succession, means to feed box-trays individually in succession into register



with such form, and means to strip the cover-shells in succession from said form and telescope them over the trays, substantially as described.

1,395,447. MULTIPLE PLOW. MICHAEL MONDRIUK, Akron, Ohio. Filed Mar. 21, 1921. Serial No. 453,986. 3 Claims. (Cl. 97—67.)



1. In a gang plow, a frame, a main shaft, wheels supporting said main shaft, a series of plowshares, arcuate collars to which said plowshares are fixed, sleeves on said main shaft, and means for engaging and disengaging said arcuate collars from said sleeves by movement of said arcuate collars longitudinally of the shaft.

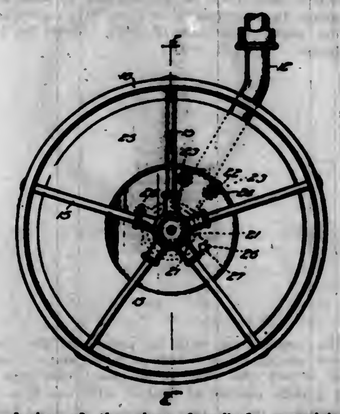
1,395,448. MACHINE FOR TESTING LUBRICATING-OILS. HUGH K. MOORE, Berlin, N. H., assignor to Berlin Mills Company, Berlin, N. H., a Corporation of Maine. Filed Aug. 27, 1917. Serial No. 188,293. 12 Claims. (Cl. 265—10.)

1. An apparatus for testing lubricating oils, comprising an immovable inverted conical bearing to which the lubricant is supplied, a complemental rotary member, means for exerting axial pressure on said member, and



means for measuring the power required to rotate said member.

1,395,449. CASTER-WHEEL. EDWARD MOWRY, Sterling, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Feb. 24, 1919. Serial No. 278,691. 2 Claims. (Cl. 280—157.)

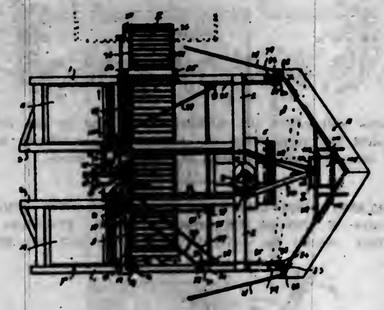


1. A device of the class described, comprising, in combination, a supporting member, a wheel journaled thereon and having a hub provided with an annular flange, a bracket secured to said supporting member and provided with a channel portion engaging said flange, a wheel shield carried by said bracket and a U-shaped element engaged about the supporting member with its arm engaging the bracket and shield, and means for clamping all together.

1,395,450. ROAD-WORKING MACHINE. DAVID C. MOWRY, Geneva, Nebr. Filed Mar. 13, 1920. Serial No. 365,541. 3 Claims. (Cl. 37—48.)

1. A machine of the character described comprising a portable frame, a plow supported thereby and substantially V-shape in plan with the apex thereof forwardly directed, a rearwardly directed frame pivotally engaged with the plow at the apex portion thereof for swinging

movement in a vertical direction, a ground engaging member carried by said frame, means for vertically



swinging said frame, and a member carried by the plow with which the frame engages upon its upward movement to elevate the apex portion of the plow.

1,395,451. COMPOSITION FOR PROTECTIVE COATINGS. CHARLES S. PALMER, Pittsburgh, Pa. Filed Feb. 20, 1919. Serial No. 278,288. 9 Claims. (Cl. 106—36.2.)

1. A composition, adapted for use in protecting metallic or alloy-like surfaces which are subjected to high heat, and which consists of approximately twenty parts of practically non-fusible solid material and from five to twenty parts of heat-conducting solid material, and a relatively small proportion of a liquid-like binder, insufficient in quantity to allow the mass to flow when heated but which is absorbed by the solid particles, while at the same time causing them to cohere, the indicated materials being largely granular and mixed intimately with said binder so as to produce a pasty mass.

1,395,452. CORE FOR HOLLOW WALLS. DAVID C. PATTERSON, Omaha, Nebr. Filed Feb. 16, 1920. Serial No. 359,172. 8 Claims. (Cl. 25—128.)



3. In an adjustable core for the purposes described, an elongated handle-member having a pair of opposed apertured horizontal flanges, a plurality of sections each consisting of a pair of side plates projecting below and adapted to engage the horizontal flanges of the handle-member, bolts or equivalent keepers carried by the flanges of the side plates and engaging in the apertures of the horizontal flanges of the handle-member, said apertures being angular in plan to permit the side plates of the sections to be disposed at predetermined distances from each other transversely and longitudinally of the handle-member.

1,395,453. FASTENING DEVICE. RALPH S. PRESCH, Hinsdale, Ill. Filed Dec. 5, 1918. Serial No. 265,400. 4 Claims. (Cl. 72—105.)

1. A member having an enlargement formed with outer and inner outwardly sloping portions and a portion between these sloping portions that is substantially parallel with the axis of the member; in combination with an ele-



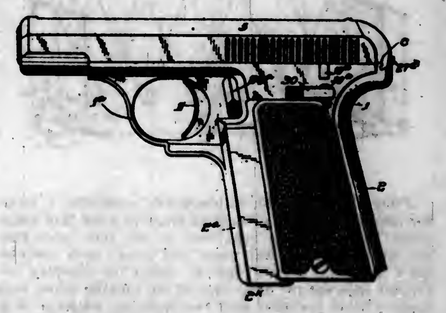
ment engageable with said portions of the member enlargement and expansible thereby laterally of the member.

1,395,454. RADIOSIGNALING SYSTEM. JAMES HARRIS ROGERS, Hyattsville, Md. Filed Mar. 9, 1920, Serial No. 364,400. Renewed Sept. 12, 1921. Serial No. 500,271. 10 Claims. (Cl. 250—33.)



1. The combination with a submarine vessel having a metallic hull or sheathing, of an antenna extending longitudinally within and inclosed by said hull or sheathing and electrically connected to the same, and signal instruments associated with said antenna.

1,395,455. BREECH-LOADING FIREARM. ELBERT H. SEARLE, Grimes, Calif. Filed July 22, 1918, Serial No. 245,981. Renewed Sept. 19, 1921. Serial No. 501,827. 31 Claims. (Cl. 42—3.)



1. In a fire-arm, a reciprocating breech-closing member, a grip comprising relatively movable members, a lever mechanism against which said grip acts for retracting the breech-closing member, a fulcrum sustaining the lever at one point against the action of the grip, and means automatically releasing said fulcrum.

1,395,456. WHEEL. FREDERICK S. STAFFORD, Chicago, Ill., assignor to Henry G. Saal, Chicago, Ill. Filed Dec. 5, 1919. Serial No. 342,641. 5 Claims. (Cl. 301—37.)

1. A wheel having spokes and a rim portion upon said spokes and formed with an inner circular face; in combination with a disk engaging the inner circular face of said rim portion, said disk being formed of resilient metal

of dish form flaring away from the wheel when its resiliency is unconstrained and then engageable with the



wheel spokes at its unflaring portion and constrained to flatter form when secured to the wheel.

1,395,457. LUGGAGE-CARRIER FOR AUTOMOBILES. CLEO R. STANDLEY, Boone, Iowa. Filed Mar. 22, 1919. Serial No. 284,379. 1 Claim. (Cl. 224—29.)



A luggage carrier for automobiles, comprising a member composed of bars pivoted together to form lazy tongs metal loops pivotally connected to the four projecting end members of the lazy tongs, end frames each comprising a flat metal upright support, means for clamping the support adjacent the outer edge of the running board, said support being provided with two slots one adjacent each end, said loops being adapted to pass through said slots, providing a hinged connection between the lazy tongs and end members, said upper slots being of sufficient length to permit folding of the lazy tongs, each end frame provided with a member secured to the upright and designed to lie upon the top of the running board, and a brace rigidly secured to the part that extends over the running board and also to the upright.

1,395,458. TYPEWRITING-MACHINE. BURNHAM C. STICKNEY, Elisabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 30, 1919. Serial No. 334,426. 30 Claims. (Cl. 197—138.)

1. In a typewriting machine, in combination, a revoluble platen, two feed-rolls coöperating therewith, a finger-piece, and means whereby movement of said finger-piece from its central position to either one of its limiting po-



sitions will effect the withdrawal of one or the other of said feed-rolls from the platen, in accordance with the direction of movement of said finger-piece.

1,395,459. CONVERTIBLE HARROW AND DRAG. JOHN W. TAYLOR, Edwardsville, Kans. Filed Dec. 2, 1920. Serial No. 427,761. 4 Claims. (Cl. 55—103.)



1. The combination of a harrow, an auxiliary section pivoted thereto, and means whereby the auxiliary section may be lowered to act as a drag on the surface of the ground.

1,395,460. DOUBLE-BARRELED GUN. JOHN TALIAFERRO THOMPSON, Newport, Ky., assignor, by direct and mesne assignments, to Auto-Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed May 8, 1920. Serial No. 379,787. 46 Claims. (Cl. 42—3.)



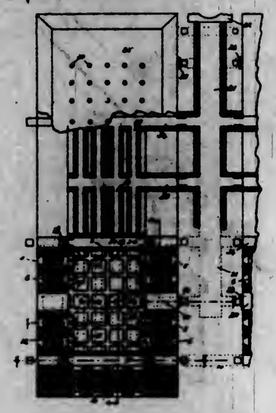
1. A gun comprising a frame, a plurality of barrels fixedly associated with said frame, and a breech closure mounted on said frame to move rearwardly and forwardly into and out of firing position and adjustable to be selectively placed in operative relation with either of said barrels.

1,395,461. AUTO WARNING-SIGNAL. JOHANNES H. TUBBERGEN, Afton, Calif. Filed Apr. 25, 1921. Serial No. 464,418. 2 Claims. (Cl. 116—50.)



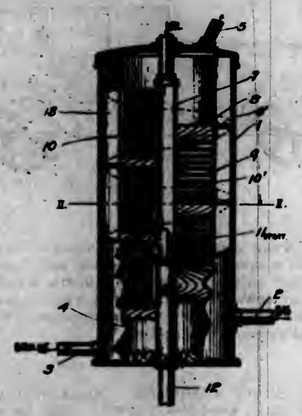
1. A signal device comprising a pair of casings provided with horizontally disposed guide flanges, means for connecting the casings together to hold them in continuous alinement while permitting their overall length to be altered, said casings being adapted to be removably attached to a vehicle, and a pair of signal plates disposed between the guide flanges and adjustably connected together to allow their overall length to be altered.

1,395,462. KILN FOR BURNING ANY AND ALL SORTS OF CLAY PRODUCTS, GLAZED WARE, AND POTTERY. HARRY WEBSTER, Newport, Ky. Filed May 13, 1918. Serial No. 234,048. 7 Claims. (Cl. 25—139.)



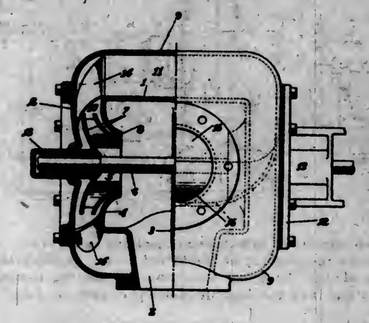
1. A kiln of the character described, comprising a series of heating chambers, with a solid wall dividing the chambers from each other, a main flue for the products of combustion common to all the chambers, with furnaces along the side of the kiln opening into their respective chambers and passages opening downwardly through the floor of each chamber, with transverse passages underneath the floor connecting with the main flue, for the purpose described.

1,395,463. ABSORPTION-TANK. THOMAS WIGHT, Kansas City, Mo. Filed July 22, 1918. Serial No. 246,016. 6 Claims. (Cl. 261—118.)



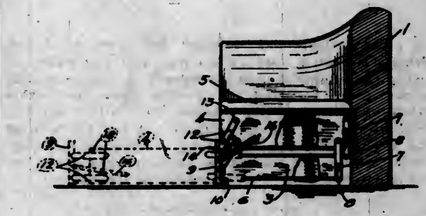
1. An absorption tank for gasolene comprising a casing having a gas inlet, a spiral chamber in the casing, oil film supporting grids in the chamber, and oil discharge spray nozzles in the casing.

1,395,464. DOUBLE-BALANCE CENTRIFUGAL PUMP. WALTER R. WOOCK, HERBERT J. WOOCK, and ERIC M. WOOCK, Lodi, Calif., assignors to Superior Manufacturing Company, Inc., Lodi, Calif. Filed Aug. 3, 1920. Serial No. 401,010. 3 Claims. (Cl. 253—194.)



1. A centrifugal pump including a pair of opposed runners, a common intake chamber therebetween, another chamber surrounding the intake chamber and extending over the runners, and deflectors arranged in the outer chamber adjacent the periphery of the runners and adapted to direct the water therefrom into the central portion of the outer chamber.

1,395,465. ARMCHAIR AND BED. CORA E. BAIRD, Long Beach, Calif. Filed Apr. 23, 1921. Serial No. 463,781. 4 Claims. (Cl. 5—46.)

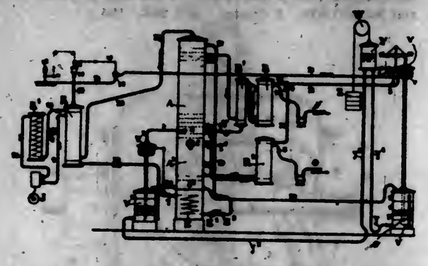


2. Convertible furniture comprising a chair frame including a stationary mattress and a removable mattress mounted thereon to form a seat for a chair, a cross plate in front of said mattresses and having a link connection with the movable mattress, said movable mattress having a link connection with said stationary mattress movable along said stationary mattress to permit of withdrawal of the movable mattress to a point upon the floor and in prolongation of the stationary mattress so as to form a bed.

1,395,466. REGULATING MEANS FOR GAS-SEPARATING APPARATUS. EMILE AUGUSTIN BARBET, Paris, France. Filed June 25, 1919. Serial No. 306,621. 5 Claims. (Cl. 62—122.)

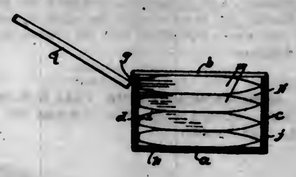
1. In rectifying apparatus for treating mixed liquefied gases, regulating devices automatically operated by the variations of pressure in the various parts of the apparatus to maintain regular working of said apparatus, said regulating devices comprising in combination a regulator operated by the rise or fall of pressure at the base of the rectification column and controlling the supply of the liquid gas to be rectified, a second regulator operated by the difference in pressure between the feed chamber and the base

of the rectification column and controlling the supply of heating medium to the rectification column, a valve which causes any excess of heating medium to be returned to the



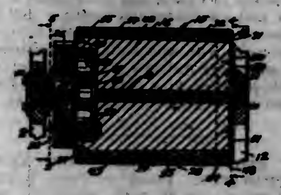
pump supplying said heating medium and a valve which reduces the amount of liquid fed to the rectification column should the pump supplying the heating medium deliver less than the requisite amount of said medium.

1,395,467. CIGAR-PACKAGE. MEYER BAYUK, Philadelphia, Pa. Filed Mar. 26, 1920. Serial No. 368,822. 1 Claim. (Cl. 131—11.)



A package comprising an outer thin sheet metal box, having a bottom, a front wall, a rear wall, end walls and a lid, a rigid lining for the box formed of loose separately inserted front, rear and end wooden plates, and cigars within the package extending transversely with relation to the front and rear plates, the front and rear plates being held in position by the end plates, to prevent the longitudinal crushing of the cigars, while the end plates are held in position by the lateral pressure of the cigars.

1,395,468. SAND-PAPERING MACHINE. MICHAEL L. BEAL, Pasadena, Calif. Filed Aug. 4, 1919. Serial No. 315,276. 6 Claims. (Cl. 51—190.)



1. A sand papering machine having a frame, a horizontal shaft mounted in the frame, a tapered core rotatably mounted on the shaft, longitudinal radial tongues on the core, an expanding drum adapted to be removably mounted upon the core, said drum composed of a plurality of arcuate members adapted to be separated by the said longitudinal tongues upon the core, an elastic band encircling the said drum, a cylinder encircling the elastic band, a sheet of sand paper covering the said cylinder and means for removably holding the drum upon the core.

1,395,469. THREE-WAY VALVE. JAMES D. BARROW, Aurora, Ill., assignor to Western Wheeled Scraper Company, Aurora, Ill., a Corporation of Illinois. Filed Dec. 2, 1918. Serial No. 265,002. 18 Claims. (Cl. 251—76.)



1. A three-way valve comprising a body having a valve chamber, inlet, outlet, and exhaust passages communicating with said chamber at longitudinally separate points, and a slide valve movable longitudinally in said chamber to connect said outlet passage with either said inlet passage or said exhaust passage, said valve being constantly subjected to fluid pressure tending to move it longitudinally in said chamber.

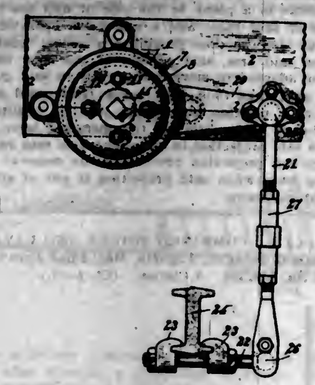
1,395,470. WHEELED TOY. CHARLES F. BLACK, Dayton, Ohio, assignor to The Republic Tool Products Company, Dayton, Ohio, a Corporation of Ohio. Filed Jan. 31, 1921. Serial No. 441,253. 8 Claims. (Cl. 46—48.)



1. In a device of the character described, a shaft, an inertia wheel rotatably mounted on said shaft, and means for imparting initial rotation to said inertia wheel and for transmitting power from said inertia wheel to said shaft and causing said shaft to rotate in the same direction in which said inertia wheel rotates.

1,395,471. SHOCK-ABSORBER. CHARLES C. BLACKMORE, Dayton, Ohio. Filed Feb. 7, 1921. Serial No. 442,984. 22 Claims. (Cl. 267—9.)

2. In a device of the character described, a fixed member, a movable member rotatably mounted on said fixed member, said members having opposed friction surfaces, and said movable member having a part spaced from said fixed member, and a yieldable device extending between and connected with said part of said movable member and said fixed member, said yieldable device being arranged to

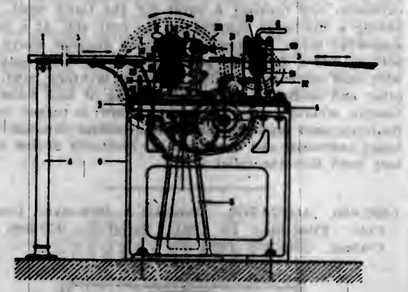


cause said friction surfaces to engage one another with progressively increasing pressure as said movable member is rotated from its normal position.

1,395,472. PROCESS FOR IMPROVING COTTON FABRICS. GUSTAV ADOLF BOSSHARD, Arbon, Switzerland, assignor to the Firm A.-G. Seeriet, Bleicherei, Filiale Arbon, Arbon, Switzerland. Filed July 9, 1920. Serial No. 395,101. 6 Claims. (Cl. 8—20.)

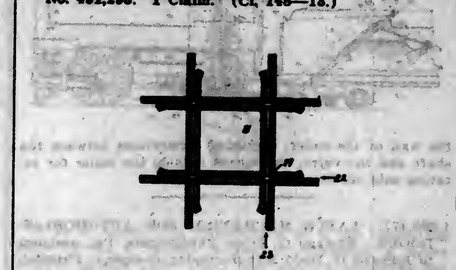
2. In the process of producing transparent effects of cotton fabrics, treating the fabric while stretched to nitrosulfuric acid at temperatures below zero degrees centigrade.

1,395,473. MACHINE FOR CUTTING CARDBOARD STRIPS FOR MAKING MATCHES. PEDRO BOSSO, Buenos Aires, Argentina. Filed Mar. 28, 1921. Serial No. 456,069. 9 Claims. (Cl. 18—10.)



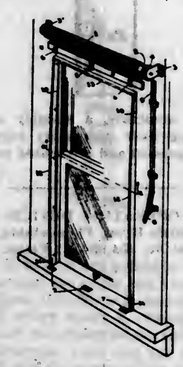
1. A machine for cutting cardboard strips or the like for the manufacture of matches, consisting of a frame mounted on standards, a table arranged in continuation of the frame and provided with guides for feeding the sheets of cardboard to the machine, two grooved ribbed cylinders so arranged that alternately ribs of each cylinder extend into the grooves of the other cylinder, said grooves covering the entire surface of the cylinders and each extending entirely around the circumference of its respective cylinder, and "combs" so placed as to extend into the grooves of each cylinder, there being a comb for each cylinder.

1,395,474. TREATMENT OF RAILS, SWITCH-POINTS, FROGS, AND CROSSINGS. NELSON H. BRAY, San Francisco, Calif., assignor to Bray Metal Hardening Co., a Corporation of California. Filed Mar. 1, 1920, Serial No. 362,452. Renewed Aug. 10, 1921. Serial No. 491,298. 1 Claim. (Cl. 148—13.)



The treatment of railway tracks comprising a plurality of rails arranged in alinement with adjacent rail ends unconnected in the tread portions thereof and with each of such rails comprising a head and an upright web formed integral from steel containing sufficient carbon to be responsive to heat treatment in a marked degree, which consists in local heating of parts only of the rail heads at the said adjacent rail ends to a temperature above that of decalescence of the metal by the direct application thereto of an oxy-acetylene flame without heating the remainder of the structure except by conduction of heat from the said part to which the flame is applied and rapidly cooling the said heated portions.

1,395,475. ROLLING SCREEN. JULIEN A. BRIED, Oakland, Calif. Filed Feb. 26, 1917. Serial No. 151,016. 11 Claims. (Cl. 156—39.)

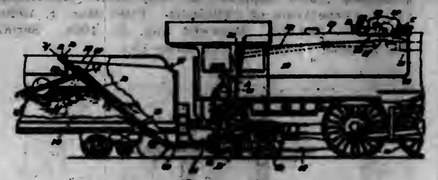


1. In a window screen or shade, strips secured at the edges of a window opening and convexly curved in direction of their length, a fabric sheet tensioned over the opening and seated against the convex surface of said strips.

1,395,476. BOOSTER-ENGINE FOR STEAM-LOCOMOTIVES. RAY M. BROWN, Yonkers, N. Y., assignor to Howard L. Ingersoll, White Plains, N. Y. Filed Apr. 28, 1920. Serial No. 377,145. 14 Claims. (Cl. 105—48.)

1. In combination with the boiler of a steam locomotive, a booster motor for the locomotive, a throttle valve

located within the boiler, and means for operating the throttle valve comprising a rock shaft extending through



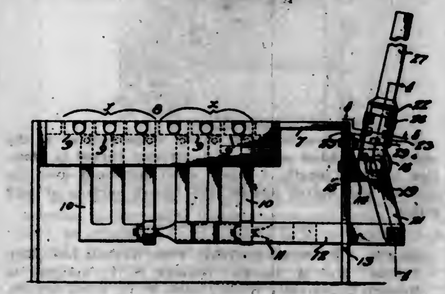
the wall of the boiler, operating connections between the shaft and the valve, and means outside the boiler for rotating said shaft.

1,395,477. LATCH MECHANISM FOR AUTOMOBILE-DOORS. EDWARD G. BUDD, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 22, 1919. Serial No. 339,899. 6 Claims. (Cl. 292—173.)



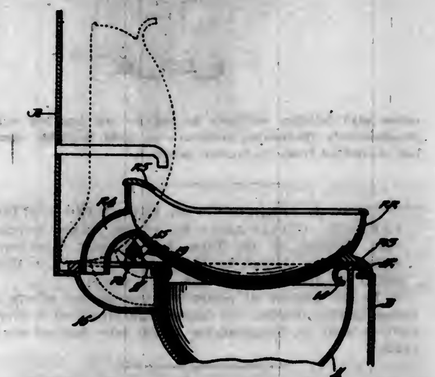
1. In a latch structure, a slidably mounted locking bolt, an operating lever detachably engaging said bolt, and a spring compressed and interposed between said lever and bolt.

1,395,478. OPERATING DEVICE FOR SHAKING-GRATES. LESTER BUDD, Philadelphia, Pa. Filed Jan. 29, 1920. Serial No. 354,956. 1 Claim. (Cl. 126—169.)



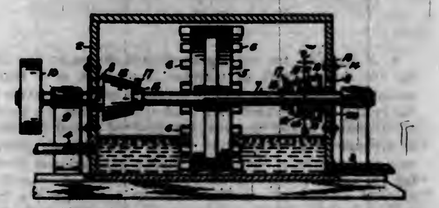
A device of the character described including a grate frame, a part secured to said frame and having an upwardly extending fixed side plate with two laterally projecting lugs spaced apart to provide a guideway therebetween; a pivoted grate-rocking lever having an arm movable in a plane to the side of and spaced from the ends of said lugs; and a removable operating lever having an end portion providing a socket adapted to slide over said arm, said portion of the lever having a projection adapted to move downwardly in said guideway between said lugs to a level below them, said arm extending to a position above said lugs to facilitate the application of said portion of the operating lever to said arm with said projection in alinement with said guideway, said lugs and projection preventing the removal of said operating lever when said projection is out of alinement with said guideway.

1,395,479. COMBINED TOILET AND LAVATORY. WILLIAM G. BUNKER, Augusta, Me. Filed Apr. 22, 1921. Serial No. 463,596. 4 Claims. (Cl. 4—1.)



1. In combination, a toilet and lavatory, the toilet comprising a bowl having a suitable support, a rear extension portion having a passage which opens into the side of said bowl below the rim and having an opening in the top, said lavatory comprising a bowl hinged to said toilet extension and forming a cover for the toilet bowl, and having a discharge opening in the rear side at a point somewhat below the top but at some distance above the bottom, and a discharge pipe, one end of which connects with said discharge opening from the lavatory bowl, the other end leading into the top opening of said toilet extension, whereby when the lavatory bowl is turned up on its hinge said discharge pipe will telescope into the said toilet extension and discharge the contents of the lavatory bowl into the toilet bowl.

1,395,480. AGITATOR. WILLIAM A. BUTCHART, Denver, Colo. Filed Mar. 22, 1921. Serial No. 454,580. 11 Claims. (Cl. 259—136.)



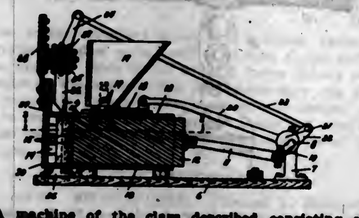
1. In apparatus of the character described, the combination with a container having an opening and an agitating element having a shaft extending through said opening, of a closing appliance comprising two members cooperatively forming an annular tortuous passage around the shaft and between said opening and the interior of the container, the surface of a terminal portion of said passage, sloping toward an open end of the same inside the container.

1,395,481. ARTICHOKE-TRIMMER. ROBERT W. CLINE, San Jose, Calif., assignor of one-half to Floyd S. Moore, San Jose, Calif. Filed Feb. 23, 1921. Serial No. 447,207. 6 Claims. (Cl. 146—11.)



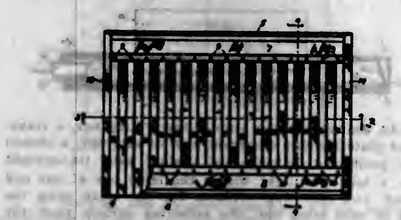
6. An artichoke trimmer including a blade having a cutting edge forming a compound forwardly and outwardly extending curve, and having a rearwardly extending lower surface arranged at an angle to the path of travel of said cutting edge.

1,395,482. POTATO-SEED-CUTTING MACHINE. GEORGE A. DAVIDSON, Ada, Minn. Filed May 31, 1921. Serial No. 473,868. 3 Claims. (Cl. 146—7.)



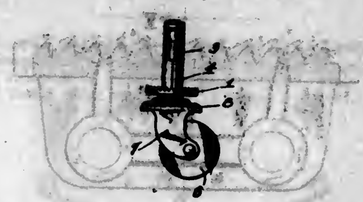
1. A machine of the class described consisting of a suitable frame, a box secured to the frame, a knife frame secured in one end of the box, a plunger slidably mounted in the box, said box having a hole through which potatoes may be dropped between said knife frame and plunger, a hopper secured above the box, a feeder adapted to feed potatoes from said hopper to said hole, and means for simultaneously actuating said feeder and plunger.

1,395,483. PALLET. CHARLES A. DENNEY, Portland, Ind. Filed Nov. 29, 1920. Serial No. 427,125. 5 Claims. (Cl. 24—17.)



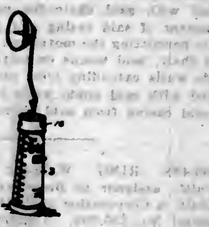
2. A pallet comprising a grid, supporting bars extending across near the ends of the grid and contacting therewith, a flat plate covering the other side of the grid, and means whereby all of said parts are securely fastened together by the material of which they are composed, all substantially as shown and described.

1,395,484. TOP-BEARING CASTER. DANIEL B. DIBB, Newark, N. J., assignor to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Apr. 20, 1921. Serial No. 462,903. 5 Claims. (Cl. 16—18.)



8. In a caster, the combination of a leg supporting plate having a central opening therethrough, a sleeve secured to said plate about said opening, extending upwardly therefrom and having a lateral flange at the top, a spring member having a cross portion beneath said flange and downwardly-extending portions on opposite sides entirely within said sleeve, bent inwardly at alined points, a member adapted to secure said cross spring portion beneath said flange, the lower surface of said member being curved downwardly and serving as a top pintle bearing, and a pintle having a concavity in its top surface and a shoulder below said surface, said pintle being adapted to be pressed upwardly within said sleeve to engage the concavity in its top surface with said bearing, said inwardly extending spring portions yieldably engaging beneath said shoulder when said pintle is thus positioned.

1,395,485. COZY FOR PORTABLE GAS-GENERATORS. DAVID C. DUNCAN and RUSSELL C. DUNCAN, Duluth, Minn. Filed Nov. 15, 1919. Serial No. 338,311. 1 Claim. (Cl. 150—52.)

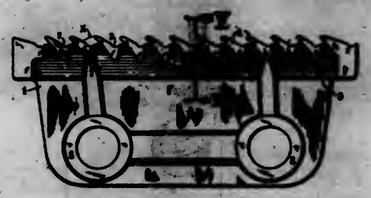


The combination with a gas generator requiring intermittent access through the upper end thereof and having gas pipe connections through said upper end, of a two piece cozy, one of which pieces is removably attached to the body portion of the generator leaving the lower end or base of the generator bare, and the other piece of a shape to act as a cap for covering the upper end of the generator and acting as a closure for the upper end of the other piece, said cap overlapping the upper end of said other piece, and said cap being removable with the upper end of the generator.

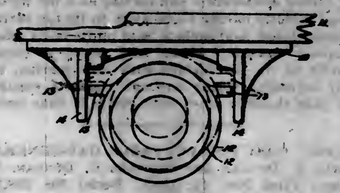
1,395,486. TRAVELING-GRATE STOKER. WILLIAM M. DUNCAN, Alton, Ill. Filed Apr. 17, 1919. Serial No. 290,665. 5 Claims. (Cl. 110—40.)

1. In a mechanical stoker provided with a fuel inlet, a traveling grate comprising grate links movable under said fuel inlet, each of said grate links comprising a web having at its top margin a longitudinal row of fuel supporting tongues which extend laterally from said top mar-

gin to form the fuel supporting top of the link, said fuel supporting tongues being separated from each other to provide a longitudinal row of draft passageways between them, and said row of fuel supporting tongues being provided with extensions having inclined top faces for deflecting the fuel away from the open upper ends of said draft passageways, the inclination of said faces being upwardly in a direction opposite to the direction of travel of the grate.



1,395,487. JOURNAL BOX AND MOUNTING. JAMES R. FLEMING, Scranton, Pa. Filed Feb. 18, 1920. Serial No. 359,585. 8 Claims. (Cl. 308—42.)



1. A structure as characterized comprising a cylindrical bearing casing; a chair for said casing; means associated with said chair for maintaining the transverse alinement of said casing and parts associated therewith while permitting the movement of said casing to and from said chair, said means embodying a plurality of vertical guide walls extending from said chair; and means associated with said guide walls for limiting the separation of said casing from said chair.

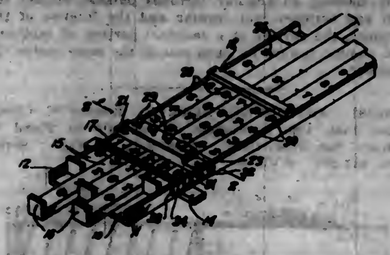
1,395,488. RING. WALLACE G. GINDER, Los Angeles, Calif., assignor to Brock and Company, Los Angeles, Calif., a Corporation of California. Filed June 1, 1920. Serial No. 385,704. 3 Claims. (Cl. 63—17.)



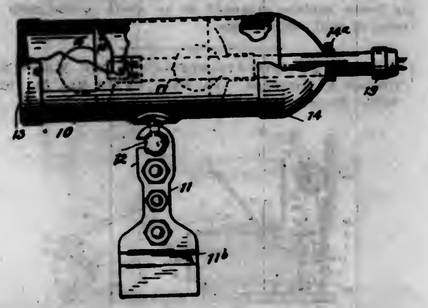
1. A finger ring having a neck extending at approximately right angles therewith, the under portion of said neck being provided with a notch adapted to receive a portion of the loop member of another ring, whereby when both rings are placed upon a finger they will be held together in locked relation.

1,395,489. ADJUSTABLE GUIDE FOR TRANSFER MECHANISMS. FRANK B. GLOVER, New York, N. Y. Filed Apr. 10, 1920. Serial No. 372,882. 7 Claims. (Cl. 33—23.)

1. A transfer guide comprising a base, a plurality of rigid, juxtaposed bars slidable unlimitedly thereon, said bars having a longitudinal row of uniformly spaced depressed characters, and means for adjusting said bars to form various combinations of the characters as read transversely across the bars.

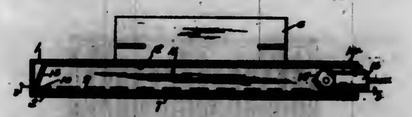


1,395,490. LAMP. WALTER W. GRAFF, East Cleveland, Ohio, assignor of one-half to John O. Schmitt, Cleveland, Ohio. Filed Jan. 14, 1918. Serial No. 211,756. 1 Claim. (Cl. 240—41.)



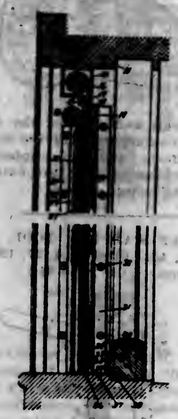
In a lamp, a casing having a lens at its front end, and at its rear end having a cup-shaped or concave closure, a plunger freely slidable through said closure, and provided at its forward end with a lamp and reflector, said lamp, reflector, plunger and rear end closure being removable as a unit from the casing, and when so removed, the closure being movable along the plunger so as to surround the lamp and reflector and serve as a hood therefor.

1,395,491. ILLUMINATED LICENSE-PLATE. LEON R. GRANNIS, Long Beach, Calif. Filed Feb. 3, 1921. Serial No. 442,150. 2 Claims. (Cl. 40—132.)



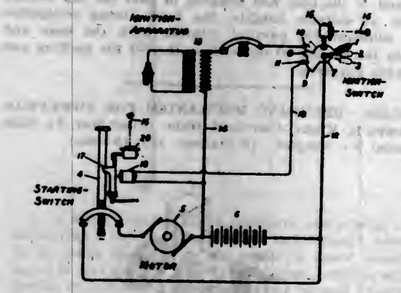
1. An illuminated sign comprising a lamp box, a transparent plate forming the front wall of said box, a stencil sheet positioned immediately against said transparent plate, a source of light within the lamp box at one end thereof, and reflecting surfaces for the same upon the walls of said lamp box, the reflecting surface upon the end wall opposite the source of light being inclined so as to project the rays of light outwardly through the open front of the lamp box, and the reflecting surface upon the end wall at the source of light comprising reflectors inclined upwardly and downwardly from the source of light so as to project the rays of light against the top and bottom reflecting surfaces of the lamp box.

1,395,492. WINDOW-SCREEN. LEOPOLD GUGGENHEIMER, Hastings-upon-Hudson, N. Y., assignor, by direct and mesne assignments, to Rolup Screen Company. Filed Nov. 8, 1919. Serial No. 336,586. Renewed Aug. 24, 1920. Serial No. 405,736. 14 Claims. (Cl. 156—39.)



8. The herein described window attachment comprising a rolling window screen and a window shade, guideways on opposite sides of the window frame having parallel parts in which the screen and shade may run and offsets from said parallel parts, and guiding devices attached to the edges of the screen and shade and adapted to engage and run in the aforesaid offset portions of the guideways.

1,395,493. SWITCH-LOCK. EDWARD A. HALBLEIB, Rochester, N. Y., assignor to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed May 17, 1917. Serial No. 169,267. 3 Claims. (Cl. 171—97.)



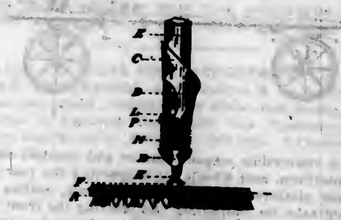
1. In starting and ignition apparatus for an internal-combustion engine, a starting-switch for controlling an electric starting-motor; a detent normally coöperative with said switch to retain it against operative movement; an electromagnet for tripping the detent; an ignition-switch, for controlling the electric ignition-apparatus of the engine, located at a point remote from the starting-switch; connections, between said electromagnet and the ignition-switch, for energising the magnet when the ignition-switch is in closed-circuit position with respect to the ignition-apparatus; and a mechanical lock for retaining the ignition-switch in open-circuit position with respect to both the magnet and the ignition-apparatus.

1,395,494. SELF-LUBRICATING SPRING. FRANK R. HARRINGTON, Los Angeles, Calif., assignor of one-half to Frederick A. Miller, Los Angeles, Calif. Filed June 24, 1920. Serial No. 391,851. 6 Claims. (Cl. 267—50.)



2. As an article of manufacture, a leaf spring provided at its end with an integrally formed transverse downwardly and partially returned curved portion, the end of said curved portion of the spring lying in the plane of a surface of the spring, and integrally formed ears adapted to be bent so as to close the ends of said downwardly and partially returned curved portion; one of said ears being formed with a transverse depression in its open edge whereby lubricant may be placed within the well portion formed by the downwardly and returnedly curved and closed portion of the spring; there being means within said well portion for holding and distributing a lubricant.

1,395,495. SCRUBBING-BRUSH. JEREMIAH FRANCIS HOLLAND, Beaver Dam, Wis. Filed Mar. 9, 1920. Serial No. 364,560. 2 Claims. (Cl. 306—2.)

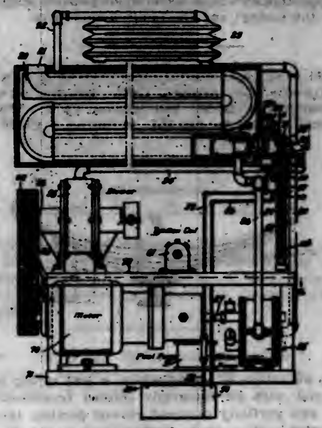


2. In a scrubbing brush comprising a brush member with parallel inverted hook members on the back thereof on a line at right angles to the longitudinal axis of said brush member at its middle point, said hook members having a rounding and smooth top side or contour.

1,395,496. HEATING SYSTEM. JOHN H. HUNT, Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company, a Corporation of Ohio. Filed Mar. 26, 1919. Serial No. 285,271. 10 Claims. (Cl. 158—36.)

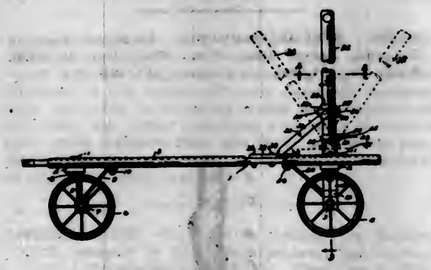
4. In a heating system, the combination with a heat generator including a liquid fuel burner; of an air pressure system for the burner; a fuel system including a supply tank and fuel reservoir; means dependent on the

air pressure system for delivering fuel from the reservoir to the burner; and common means independent of the



heat generator for controlling the rate of air supply and of fuel supply.

1,395,497. CONVERTIBLE CHILD'S WAGON, COASTER, AND SCOOTER. CHARLES HUSEMAN, St. Louis, Mo. Filed Apr. 14, 1921. Serial No. 461,813. 3 Claims. (Cl. 280—87.5.)



1. A convertible wagon, coaster and scooter, composed of a platform, rear wheels for supporting the rear portion of said platform, a swiveling front-axle, rolling means on said axle, for supporting and steering the front portion of said platform; a steering king-bolt having its lower end connected to said swiveling front-axle and extending up through an aperture in the platform to a point above the latter; a tongue-bracket fixed on the upper end of said steering kingbolt; a tongue or handle having its end pivotally attached to said tongue-bracket; a ring mounted to permit said handle to rotate within it and having diametrically-opposite pins projecting from its outer periphery; and handle-braces pivotally-connected to said platform at their rear ends, and having perforated forward ends which may be mounted on said pins, or detached therefrom, as required to convert the device to the desired form of vehicle.

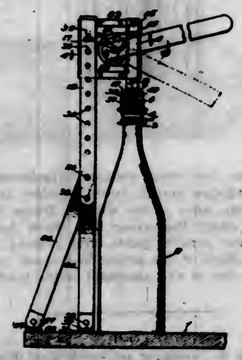
1,395,498. ARCH-SUPPORT FOR THE HUMAN FOOT. MAX KAPPNER, Cincinnati, Ohio. Filed Apr. 26, 1920. Serial No. 376,611. 1 Claim. (Cl. 36—71.)

A foot-arch support for the human foot consisting of a somewhat flexible plate conformed in general outline to cover the underside of the normal arched portion of the foot and rest at its ends upon the external shoe sole, having a bent up inner side of the plate extending into and forming a narrow trough with a swaged-up portion



of the plate as a rest and seat for the downward projections of the rear-enlargement of the first metatarsal, the internal cuneiform, and the scaphoid bones; and having a socket depression near the outer side of the plate for seating the cuboid bone.

1,395,499. BOTTLE-CAPPING TOOL. MARLON O. KASSON, Chicago, Ill. Filed Sept. 27, 1920. Serial No. 413,005. 7 Claims. (Cl. 226—84.)



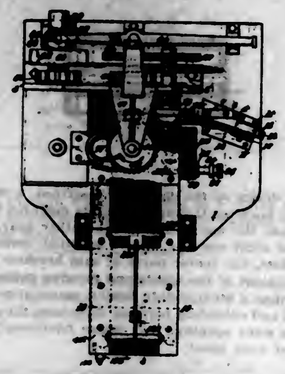
4. In a bottle capping device having a flat substantially rectangular base for supporting a bottle to be capped, a cap sealing device, a readily collapsible frame secured to one end of the base and adapted to hold the cap sealing device at suitable heights, the frame being collapsible into substantially parallel relation with the base and within the horizontal dimensions thereof for packing and shipping purposes.

1,395,500. BRUSHING MECHANISM FOR SWEEPERS. JAMES B. KIRBY, Cleveland, Ohio. Filed Mar. 24, 1920. Serial No. 368,250. 10 Claims. (Cl. 15—60.)



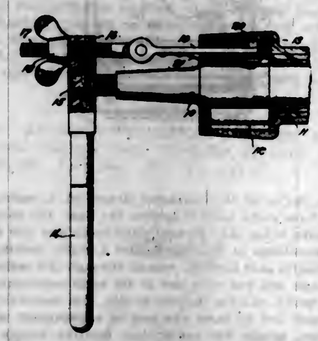
1. In a carpet sweeper, a casing, brackets carried at opposed points thereof and defining pockets, blocks carried by said brackets, a brush shaft journaled in said blocks, a carrying wheel located in each pocket and journaled to the corresponding block, and driving connections between each wheel and said shaft.

1,395,501. COLLAR-IRONING MACHINE. DENJIRO KISHIMA, Oakland, Calif., assignor to Hitoichiro Kishima, Oakland, Calif. Filed Mar. 17, 1920. Serial No. 366,558. 4 Claims. (Cl. 68—9.)



1. In a machine of the character described, a frame, means for creasing a collar along the fold line thereof, means through which the collar is advanced and moistened prior to its engagement with the creasing means, means for shaping the collar mounted in the frame, and on to which collars are advanced from said creasing means, a chamber through which collars after having been operated upon by said shaping means are moved, and means for heating said chamber.

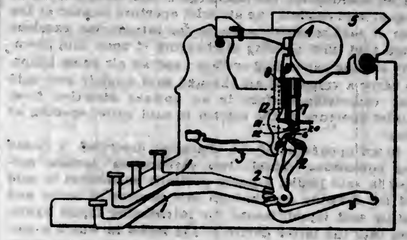
1,395,502. ROLLER-BEARING-SLEEVE PULLER. JACOB KRAY, Elgin, Ill. Filed June 25, 1920. Serial No. 391,621. 3 Claims. (Cl. 29—63.2.)



1. A roller bearing sleeve extractor comprising a handle having a socket and a passage therethrough extending in the same direction as the socket, a screw loosely engaged in said passage, a nut on the screw coacting with the handle to adjust the screw relatively to said handle, and an extracting member pivoted to the end of the screw on the same side of the handle as the socket.

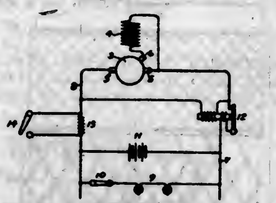
1,395,503. TYPEWRITING-MACHINE. ALFRED G. F. KUNOWSKI, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 11, 1919. Serial No. 289,208. 9 Claims. (Cl. 197—183.)

1. In a typewriting machine comprising a platen, typebars having types thereon and pivots for said type-bars, the combination of a single metallic arresting means effective for all of said type-bars and interposed in their path



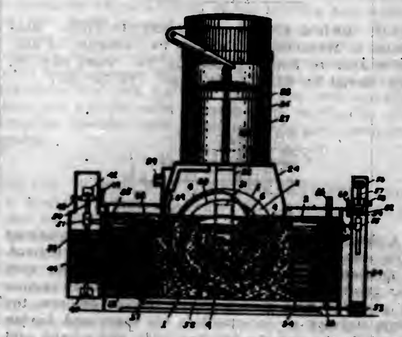
of movement so as to be encountered thereby at approximately the time the types come in contact with the platen, and a resilient support for said arresting means.

1,395,504. ELECTRIC SYSTEM. EARLE P. LEE, Rochester, N. Y., assignor to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed Oct. 17, 1919. Serial No. 331,295. 2 Claims. (Cl. 171—313.)



1. An electric system comprising: an electric generator provided with main brushes, a supplementary brush, and a shunt field-winding fed from the supplementary brush; a storage-battery connected in a charging-circuit with the main brushes of the generator; and means for throwing into and out of the charging circuit a resistance of an amount such that the resulting increase in the terminal voltage of the generator more than compensates for the increase in the resistance of the charging-circuit.

1,395,505. MACHINE FOR CARBURETING AIR. MARCUS S. LEVY, Oakland, and LEOPOLD B. DE LATTRE, San Francisco, Calif., assignors, by direct and mesne assignments, to Leontine Dandeville, San Francisco, Calif. Filed Aug. 6, 1918. Serial No. 248,655. 5 Claims. (Cl. 261—28.)

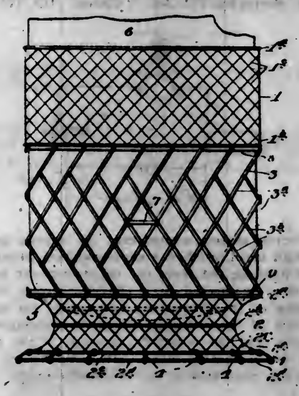


1. In a machine of the character described the combination of a vaporizing pan comprising a long conduit pro-

vided with a sloping bottom forming the vaporizing surface; an inlet opening for the admission of gasolene, and an outlet opening for the discharge of air, both located at the top of said conduit; an air inlet aperture located at the bottom of said conduit; a device for introducing gasolene through said inlet opening discharging it upon said downwardly sloping vaporizing surface; and an air pump adapted to carry a volume of air through said conduit over said sloping vaporizing surface in an upward direction from said inlet aperture at the bottom to said outlet opening at the top.

5. In an apparatus of the character described, a closed casing containing liquid, two carbureting devices submerged in said liquid, a pump partially submerged in said liquid for drawing air through said devices in series and agitating said liquid, means for introducing liquid hydrocarbon into the latter device of the series in which a portion of the hydrocarbon is vaporized, and means for introducing the unvaporized hydrocarbon into the first device of the series.

1,395,506. BOLSTER OR PILLOW-ROLL SUPPORT. NELLIE FORSMAN MANSURE, Chicago, Ill. Filed Apr. 1, 1920. Serial No. 370,582. 3 Claims. (Cl. 248—90.)



3. A bolster-support comprising a cylindrical upper section, a base-section having a constricted intermediate portion, and a collapsible intermediate section comprising sets of parallel bars pivotally joined together and pivotally connected with the upper section and the base section.

1,395,507. BRICK AND WALL CONSTRUCTION. SYLVESTER A. MARSTELLER, Carrick, Pa., assignor of one-half to John H. Roney, Pittsburgh, Pa. Filed Mar. 10, 1916. Serial No. 83,232. 6 Claims. (Cl. 72—89.)



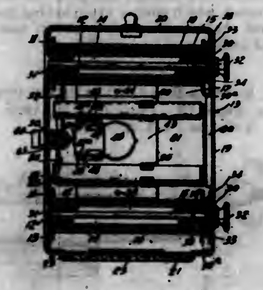
3. A channel brick including a flat body portion having parallel side members projecting from one face thereof, said members being provided at their outer edges with mortar grooves and the opposite face of the body portion being provided with corresponding mortar grooves, the members defining an intermediate air space and having substantially the size of a building brick, and a hand hold projecting into the said air space from an intermediate portion of the body portion.

1,395,508. ROAD-MAP. EARL W. MASON, Los Angeles, and CHESTER D. MILLER, San Diego, Calif. Filed Aug. 12, 1919. Serial No. 317,084. 8 Claims. (Cl. 40—86.)



1. In a device of the character described, a casing having a sight opening, U-shaped brackets mounted in the casing one near the upper end and the other near the lower end of the sight opening, spools mounted horizontally in said brackets, the center parts of said brackets extending across the front of the spools and forming guides near the sight opening, a strip of thin flexible material wound upon the spools and extending between them over the guides and across the sight opening; and means frictionally opposing rotation of each spool.

1,395,509. ROAD-MAP. EARL W. MASON and CHESTER D. MILLER, Los Angeles, Calif. Filed Mar. 31, 1920. Serial No. 370,155. 8 Claims. (Cl. 40—86.)



1. In a device of the character described, a casing comprising a base and a body hinged to the base, the body comprising ends, sides each formed with bores and one formed with indentations at the bores, and a sight opening, two rods carried in said bores to extend through the casing, and so that each rod has only one of its ends removable from the bore which carries it, two spools, one removably carried on each rod to have one end in engagement with an indentation, means for preventing relative rotary movement between the spools and the rods, means for yieldingly holding the spools against the indentations, said means comprising resilient members mounted in the rods and contacting with the inner wall of the casing opposite the indentation side thereof, an electric light arranged in the casing control means for the light, and a strip of thin flexible material wound on the spools and extending between them across the sight opening.

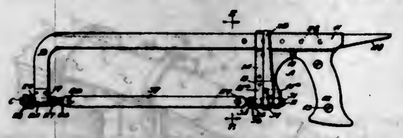
1,395,510. DRAFTING-TOOL. CARL F. MIENION, Cincinnati, Ohio. Filed Oct. 4, 1920. Serial No. 414,404. 4 Claims. (Cl. 33—41.)

1. In a drafting tool, a plate having a straight edge, an opening in the plate, a linear member mounted in the plate so as to extend across said opening, said mounting being

adapted to permit a variety of angular positions of the linear member, the linear member having a series of apertures therein through which the point of a stylus may be inserted, and means for locking the linear member in fixed position in the plate.

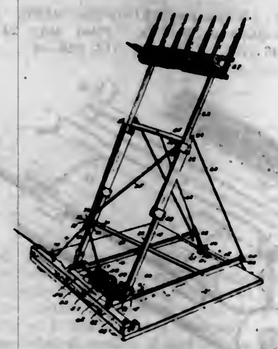


1,395,511. HACKSAW-FRAME. SAXTON J. MORGAN, Albany, Wis. Filed June 25, 1919. Serial No. 306,513. 13 Claims. (Cl. 145—84.)



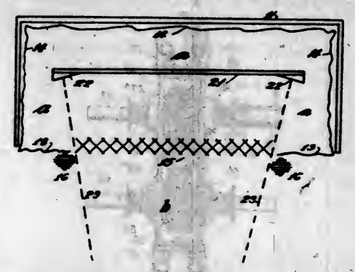
10. In a device of the class described comprising a handle, a bolt for engaging one end of a hack saw blade, a sleeve on said bolt having slidable engagement in said handle, means to prevent rotation of said sleeve relative to said handle comprising a lug on said sleeve arranged to engage in a slot in said handle, a pin in said bolt projecting radially therefrom, a plurality of notches provided in the end of said sleeve to receive said pin, resilient means for urging said bolt into position to release said blade, and means engaging the lug on said sleeve adapted when actuated to move said bolt to communicate a straining stress to the hack saw blade comprising a cylindrical cam rotatable on said sleeve and a lever for rotating said cam.

1,395,512. EXTENSION SWINGING STACKER. GEORGE L. MURPHY, Hayden, Colo. Filed Oct. 11, 1919. Serial No. 330,132. 5 Claims. (Cl. 214—141.)



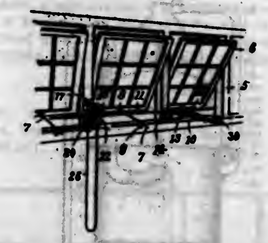
1. In a stacker, the combination with means for raising a load to be stacked, of means operated by the load raising means for moving the load laterally in either direction.

1,395,512. MOTION-PICTURE STAGE ILLUSION. OLIN ANDREW OWEN, Bradley Beach, N. J. Filed Dec. 29, 1919. Serial No. 346,218. 2 Claims. (Cl. 88—24.)



1. In combination, a stage inclosure draped with light absorbing materials, a screen for motion pictures suspended within said inclosure, said screen provided with beveled edges and having a color blending with said draperies, the front of said inclosure provided with an aperture smaller than said screen and bordered on the bottom side with a row of box plants.

1,395,514. POWER DEVICE FOR WINDOW-OPERATORS. JOHN J. PARKER, Bridgeport, Conn. Filed Sept. 16, 1920. Serial No. 410,727. 2 Claims. (Cl. 74—40.)

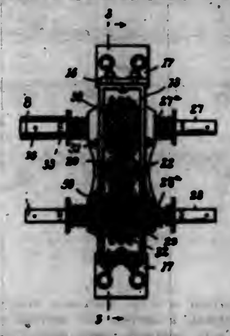


1. In combination with a longitudinally movable operating shaft having a threaded portion and adapted to actuate window sash operators, a power device for reciprocating said shaft and comprising a housing having side walls and attaching flanges whereby said housing may be adjustably attached to a window casing, alined bearings in said side walls, the threaded portion of said operating shaft adapted to be mounted in said bearings, an operating wheel mounted in the housing and between the side walls thereof, said operating wheel having threaded engagement with the threaded portion of said operating shaft to cause the same to move longitudinally, thrust bearings upon said threaded portion and between said wheel and side walls, a chain upon said operating wheel, and a guide roller for said chain, said guide roller supported beneath said wheel and arranged upon said housing.

1,395,515. POWER FOR WINDOW-OPERATORS. JOHN J. PARKER, Bridgeport, Conn. Filed Dec. 8, 1920. Serial No. 429,155. 1 Claim. (Cl. 74—40.)

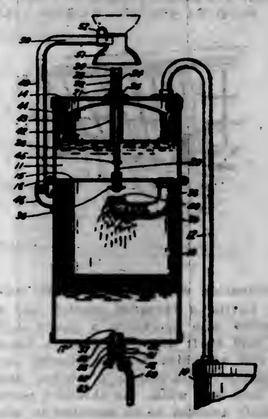
In combination with two-way window sash operators, a power device comprising a housing and means for adjustably attaching the same to a support, two longitudinally arranged threaded shafts journaled in the housing and adapted to move longitudinally and in opposite directions therein, a spiral gear mounted upon each of the said shafts and in threaded engagement therewith, an operating shaft journaled in the housing at a right angle to the above mentioned threaded shafts and intermediate thereof, a

spiral gear mounted upon the said operating shaft and meshing with the two above mentioned spiral gears on the threaded shafts, an operating pulley mounted upon the



outer end of the operating shaft, and means connected therewith for rotating the same together with its shaft, whereby the threaded shafts will be caused to move in opposite directions for the purpose described.

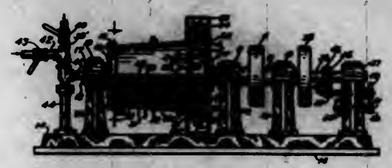
1,395,516. LIQUID-SUPPLYING APPARATUS. MOR[illegible] PARNES, New York, N. Y. Filed Dec. 30, 1919. Serial No. 348,454. 9 Claims. (Cl. 158—36.)



1. In an apparatus of the class described, the combination with a fuel supply source and a vacuum producing means, of a tank having an upper and lower chamber, a tubular connection between said supply source and said upper chamber, a U-shaped tubular connection between said chambers, a connection between said vacuum producing means and said upper chamber, valves controlling the passages in said last named connections, a hollow rod engaging between said valves, said hollow rod being open to both chambers above the liquid therein, and a float operable in said upper chamber whereby said valve rod is raised or lowered according to the fluctuation of said float.

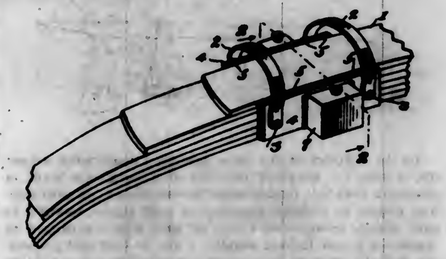
1,395,517. CENTRIFUGAL CONCENTRATOR. WILBUR H. PECK, Los Angeles, Calif. Filed Nov. 23, 1920. Serial No. 426,047. 6 Claims. (Cl. 233—7.)

1. In a centrifugal concentrator, the combination of a rotatably journaled hollow shaft, a horisontally positioned rotatable separating vessel, mounted on the overhanging end of said hollow shaft, a central shaft, rotatably journaled within the hollow shaft, a core member rotatably supported within the vessel by said central shaft, the core member provided with a longitudinally positioned central sleeve adapted to be withdrawn longitudinally with the core, from its supporting shaft while maintaining



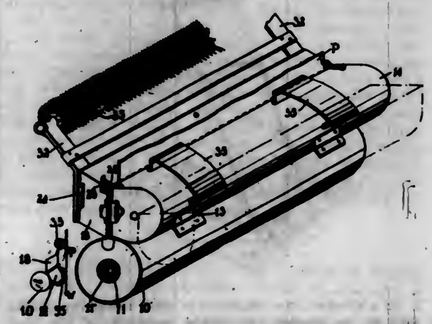
the latter in journaled placement, said core forming with the vessel a separating channel, means for introducing pulp for separation into the vessel and means for discharging the separated pulp from the vessel, substantially as described.

1,395,518. AUTO-SPRING OILER. JOHN H. PETTIT, Great Falls, Mont. Filed Aug. 26, 1920. Serial No. 406,222. 4 Claims. (Cl. 184—1.)



2. In a device of the class described, the combination of a plate provided upon its upper and lower edges with a series of inwardly-extending horisontal prongs, a flat wick against said plate between and secured by said prongs, a tank against said plate on the opposite side to said wick, said plate provided with an aperture opening into said tank, an auxiliary wick extending through said aperture and connected to said first-mentioned wick, and substantially U-shaped spring clamps secured to the outside of said plate between its edges for holding the same upon a spring.

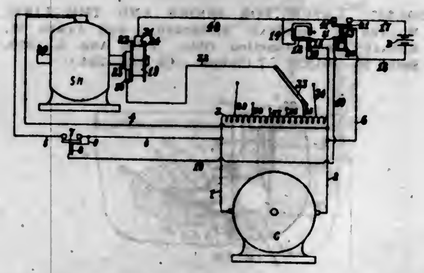
1,395,519. WALL-PAPERING MACHINE. STANLY PYTLAK, McMechen, W. Va. Filed May 21, 1921. Serial No. 471,405. 3 Claims. (Cl. 216—6.)



1. A wall papering machine comprising a cylinder adapted to hold a roll of paper, a mandrel in said cylinder,

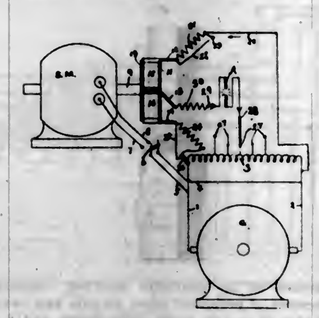
a brush holder in the form of a casing hinged to said cylinder, a rotary brush in said holder, a paste box presenting a flat face across which the paper is adapted to pass, said brush holder presenting an open side registering with said flat face, said paste box having openings therein for the discharge of paste into the said brush holder.

1,395,520. ALTERNATING-CURRENT RECTIFIER. CHARLES J. QUILL, San Francisco, Calif., assignor of one-half to William M. Filben, St. Paul, Minn. Filed Aug. 21, 1917, Serial No. 187,479. Renewed Aug. 18, 1921. Serial No. 493,461. 1 Claim. (Cl. 175—364.)



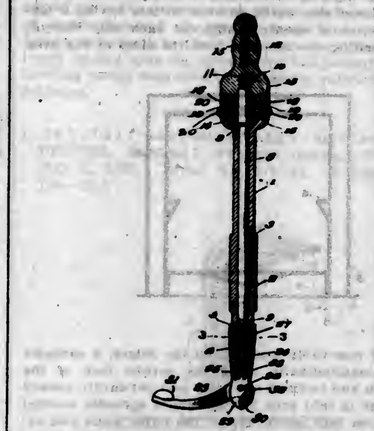
A current rectifier comprising an alternating current supply circuit, a synchronous motor operated thereby, an alternating current ring, a pair of quarter segments electrically connected with the ring, a brush bearing on the ring, another brush bearing on the segments, a load circuit for direct current, an extension therefrom to the alternating current supply, a polarity indicating circuit closer in the direct circuit, and means to drop the motor out if it is not in step to deliver current of the proper polarity.

1,395,521. ALTERNATING-CURRENT RECTIFIER. CHARLES J. QUILL, San Francisco, Calif., assignor of one-half to William M. Filben, St. Paul, Minn. Filed Jan. 31, 1917, Serial No. 145,789. Renewed Aug. 18, 1921. Serial No. 493,462. 2 Claims. (Cl. 175—364.)



2. An alternating current rectifier comprising a source of alternating current supply, a synchronous motor operated thereby, a commutator having two oppositely placed segments carried by the shaft of the synchronous motor, a plurality of brushes bearing upon said commutator, connections between certain of said brushes and the main circuit, a direct current load, an electric circuit connecting one of said brushes and the direct current load with the auto transformer whereby upon the operation of the synchronous motor direct current will be delivered to said load.

1,395,522. NAIL-EXTRACTOR. THOMAS D. RICHARDSON, Cheyenne, Wyo. Filed Mar. 2, 1920. Serial No. 362,854. 2 Claims. (Cl. 254—19.)



1. In a nail-extracting tool, the combination of a tubular standard having a tapered lower end provided with an external annular groove, a plunger slidably mounted in the standard, a nail-extractor comprising a socket member adapted to fit upon the tapered lower end of the standard and provided with an internal annular groove, and a split ring engaging in the said annular grooves.

1,395,523. ATTACHMENT FOR STOVES. ERASTUS W. ROGERS, Durham, N. C. Filed May 10, 1920. Serial No. 380,211. 1 Claim. (Cl. 126—215.)

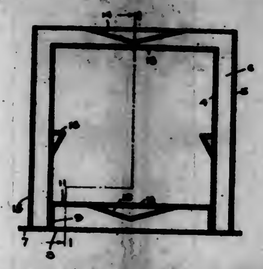


A heat distributing attachment for stoves including a housing having separate longitudinal compartments, there being an inlet opening in the bottom of the housing at one end and communicating with both compartments and a plurality of outlet openings in the top of the compartments, said housing being provided in one end with a smoke outlet in communication with both compartments, a closure for the smoke outlet, a damper pivotally mounted in each compartment between the outlet and the smoke-outlet, there being an outlet slot in the top of the housing between the top outlets, a slide normally closing said outlet slot, means extending from one end of the housing for attaching the device to a stove in position to receive hot products of combustion through the inlet opening, thereby to support one end of the housing beyond the side of the stove, and a warming pan removably connected to the bottom of the projecting portion of the housing.

1,395,524. OVEN. ERASTUS W. ROGERS, Durham, N. C. Filed May 10, 1920. Serial No. 380,212. 1 Claim. (Cl. 126—275.)

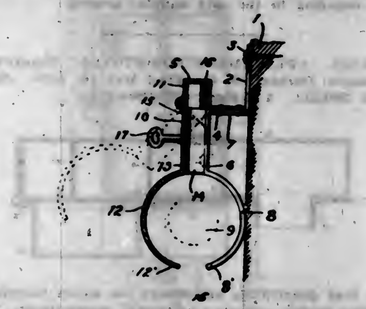
An oven including inner and outer side and top walls spaced apart to provide an air space therebetween, there being a central longitudinal outlet slot in the top of the

inner wall and outlet openings in the lower portion of the outer wall, end walls connected to the inner and outer top and side walls, a base secured to the bottoms of the walls and having ledges extending inwardly from the lower end of the inner side walls, an oven bottom having a longitudinal series of openings adjacent each side thereof, flanges extending downwardly from the sides of the oven



bottom and removably mounted on the ledges, a spreader extending longitudinally along the bottom face of the oven bottom and inclined upwardly and outwardly toward the openings in said oven bottom, and a spreader secured to the bottom face of the top of the outer walls and extending longitudinally theerof above the outlet opening in the top of the inner wall.

1,395,525. CLOAK AND ROBE LOCK. FREDERICK SAGERMAN, Canton, Ohio. Filed Feb. 19, 1920. Serial No. 359,974. 1 Claim. (Cl. 296—77.)



A device of the character described including a supporting bracket having a lock housing, clamp-members respectively connected to said bracket on opposite sides of the housing, one of said members being stationary with respect to the bracket, and the other member being pivotally connected thereto for swinging adjustment toward and away from the stationary member, and a locking mechanism carried by said pivoted member for alinement with the lock housing of the bracket when the two clamp-members are in proximity to each other, whereby a portion of the lock may be projected into the said housing to hold the members in proximity.

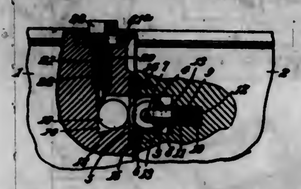
1,395,526. BOLT AND RETAINER THEREFOR. EDWARD A. SCHAFER, Wheeling, W. Va. Filed Mar. 24, 1919. Serial No. 284,758. 2 Claims. (Cl. 85—5.)

1. A bolt retainer comprising, in combination with a bolt having an annular channel formed therein adjacent to its point, a clamp-like bolt-retainer of approximate C-shape disposed in closely embracing relation to said channel, the body of said retainer being of relatively greater thickness than the depth of said channel, said retainer terminating in jaws of greatly increased thickness provided with rounded adjacent faces adapted to facilitate disposal of said retainer within and removal of it from said channel, said retainer being adapted to be sprung



around said channel into a position in which said jaws lie in engagement, and means for securing said jaws together for maintaining said retainer in position.

1,395,527. LATCH FOR DOORS AND THE LIKE. WALTER H. SHERMAN, Steubenville, and JAMES W. ECKARD, Mingo Junction, Ohio. Filed Aug. 5, 1920. Serial No. 401,207. 7 Claims. (Cl. 292—264.)



1. The combination with a door and an adjacent doorway-defining wall having confronting recesses in their meeting edges, of a latch for said door, said latch comprising a rotary disk located in one of said recesses, a yoke in which said disk is rotatably mounted, yieldable means normally holding said yoke and said disk thrust outward to a position in which a peripheral portion of the latter is received within the opposite recess for securing said door in closed position, and rotary means disposed within the last mentioned recess in engagement with the adjacent periphery of said disk and movable for thrusting the latter back within its recess.

1,395,528. SOCKET-WRENCH. FRANK IGNACIO SILVA, Wailuku, Hawaii. Filed Nov. 26, 1920. Serial No. 426,582. 4 Claims. (Cl. 81—121.)

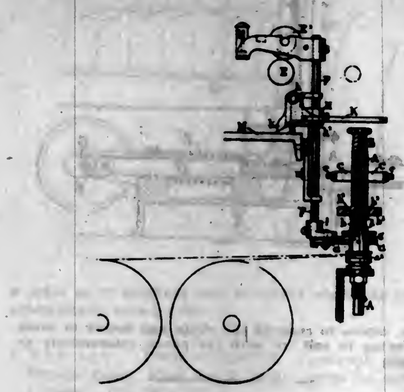


4. A wrench of the character specified, comprising a tubular member of polygonal cross section, and having an elongated slot in one or more of its facets and a sleeve of polygonal cross section slidably fitting within the tubular member, and a finger piece carried by said sleeve and extending through said slot for sliding said sleeve.

1,395,529. STOP-MOTION FOR DOUBLING-FRAMES. WILLIAM STOTT, Rochdale, England. Filed May 20, 1920. Serial No. 382,023. 1 Claim. (Cl. 116—7.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

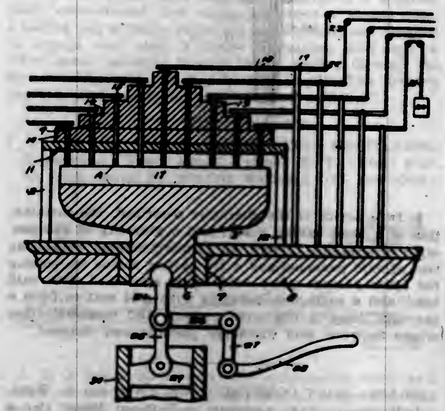
In a hand operated stop motion for the spindles of doubling frames, the combination with a rabbeth self con-

tained spindle, a friction driving cone and a driven cone member thereon, of a vertically sliding rod placed adjacent to the spindle, a bracket to support the rod and within which it slides, a bracket on the lower end of the rod, a friction brake plate affixed to the lower bracket to embrace the driving cone on the spindle, and when raised to engage the driven cone member, a bracket on the upper



end of the sliding rod adapted to carry the top roller of the machine, a hand lever pivoted to the bracket on the sliding rod and a fulcrum on the handle resting on the supporting bracket, all so disposed that on raising the handle the sliding rod is raised and with it the top roller and the driven cone member, and at the same time the rotation of the latter retarded and stopped substantially as described.

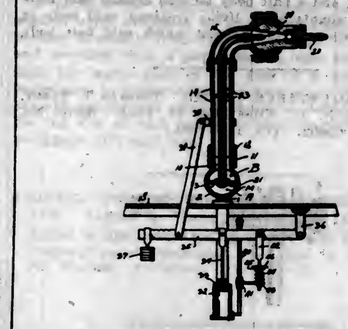
1,395,530. PRESS. ARCHIBALD JACKSON STRANB, Tamaqua, Pa., assignor to Atlas Powder Company, Philadelphia, Pa., a Corporation of Delaware. Filed Sept. 11, 1920. Serial No. 409,550. 7 Claims. (Cl. 100—19.)



1. In a multiple press a plurality of press points, a work-carrying head movable toward said press points to simultaneously bring the work into engagement with all of said press points and individually adjustable weighted pressure creating means for each of said press points.

3. In a multiple press a work-carrying head mounted for movement, a plurality of press points, a member in which said press points move said member having a stepped upper surface and said press points being supported upon the several steps of said surface, a plurality of levers disposed at varying levels and pivoted uniformly intermediate their ends the inner ends of said levers resting upon the press points and yieldable pressure creating means connected to said levers outwardly of their fulcrums.

1,395,531. AUTOMATICALLY-ACTUATED OIL-BURNER. HOWARD L. SWENNEY, Oakland, Calif. Filed May 1, 1920. Serial No. 378,191. 8 Claims. (Cl. 158—28.)



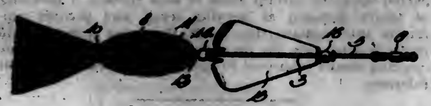
1. The combination with a furnace, of a gas burner having a fuel supply and a fluid pressure supply, the burner being mounted for movement into or out of operative relation to the furnace, means actuated by a decrease of pressure of the fluid automatically shifting the burner out of its operative position, means automatically cutting off the supply of fuel to the burner upon a movement of the burner to its inoperative position, and means acting automatically to prevent a reestablishment of communication between the source of fluid pressure supply and the burner after the burner has been shifted to its inoperative position until the burner is again manually shifted to its operative position.

1,395,532. THEFT-PREVENTING ATTACHMENT FOR STEERING-WHEELS. ELBERT REED TILDEN, West Concord, Minn. Filed May 4, 1920. Serial No. 378,739. 1 Claim. (Cl. 70—129.)



An attachment for steering wheels comprising, a casing formed of sections, and means carried by one of the sections for locking the sections against relative movement outwardly comprising, flexible members arranged to embrace the other section, plates secured to the flexible members, and staples secured to the first section and adapted to extend through said plate for holding the flexible members in embracing position with respect to the other section.

1,395,523. FISH-BAIT. ORLEY C. TUTTLE, Old Forge, N. Y. Filed May 12, 1921. Serial No. 468,827. 5 Claims. (Cl. 43—43.)



1. The combination with a fish hook and a carrying wire therefor, of a body of metal surrounding the adjacent portions of said hook and wire and rigidly securing them together, and a bait body secured around said hook and wire and simulating a living creature, said body of metal constituting a core around which said bait body is formed.

1,395,534. ADJUSTABLE TILLER. THOMAS T. TVEDT, City Island, N. Y. Filed Mar. 14, 1921. Serial No. 452,041. 1 Claim. (Cl. 114—169.)



In a device of the character described, the combination with a rudder stock and a tiller or quadrant, of a circular disk secured to the rudder stock, a flanged member forming part of the tiller or quadrant and recessed to fit said circular disk, a clamping ring also recessed to fit said circular disk, and a series of bolts extending through said flanged member and ring, and clamping the disk between them.

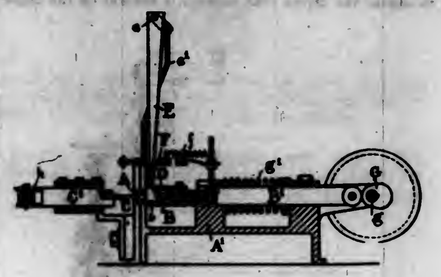
1,395,535. SHOE-HEEL. FRANK J. WALKER, Wichita, Kans. Filed Dec. 27, 1920. Serial No. 433,143. 6 Claims. (Cl. 36—35.)



1. A heel lift comprising a resilient body, and a retaining element embedded centrally therein and comprising a resilient coil having a central eye for the passage of a securing element.

1,395,536. MACHINE FOR THE PRODUCTION OF METAL TAGS SUCH AS USED ON LACES. GEORGE E. WALKER, Prestwich, SAMUEL H. WALKER, Southport, and FRANK HEWITT, Radcliffe, England. Filed Feb. 9, 1920. Serial No. 357,467. 1 Claim. (Cl. 153—1.5.)

A tag forming machine constructed with a fixed or stationary die former, a reciprocating bar carrying a cutting tool and punch at one side of the die former, a reciprocating bar carrying needle punches at the other side of the die former, the two bars being connected to move simultaneously in opposite directions to approach and recede from one another, and an oscillating chute to deliver the tag material in front of the die



former, means to suspend the chute and means to cause it to swing to and fro with the punch substantially as described.

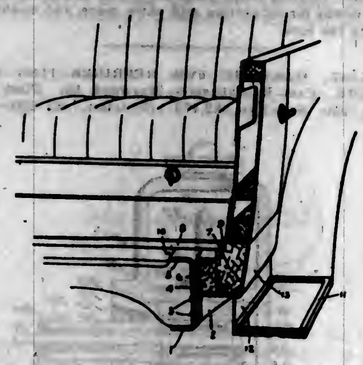
1,395,537. COMBINATION-BLOWPIPE. GEORGE L. WALKER, New York, N. Y., assignor to Air Reduction Company, Inc., a Corporation of New York. Filed Jan. 8, 1919. Serial No. 270,116. 5 Claims. (Cl. 158—27.4.)



1. In a device of the character described, the combination of a head having a seat and a plurality of gas passages terminating therein, an annular channel connecting two of said passages and a tip having means for closing the other passage when said tip is assembled with said head, and a surface coöperating with said seat to form a gas-tight joint, a discharge passage and communicating means between said discharge passage and channel.

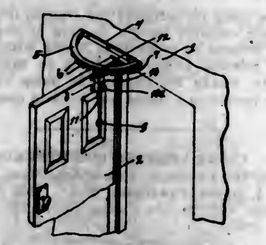
1,395,538. BODY CONSTRUCTION. WILLIAM G. WALL, Indianapolis, Ind., assignor to National Motor Car & Vehicle Corporation, Indianapolis, Ind., a Corporation of New York. Filed June 5, 1920. Serial No. 386,787. 3 Claims. (Cl. 296—28.)

1. In a body construction a frame, brackets secured to the outer face of said frame and having their top surface a substantial distance below the top of the frame, a body base supported by the brackets and extending above the frame, and a floor supported by the body base at such



a point as to overhang and be spaced above the frame, substantially as set forth.

1,395,539. DOOR-ADJUSTER. ANTANAS WALUS, Shelton, Conn. Filed Feb. 5, 1921. Serial No. 442,616. 1 Claim. (Cl. 292—341.)



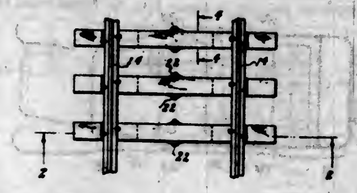
A device of the class described comprising a substantially semi-circular rack supported above a hinged door, a slotted bolt slidably supported on said door and adapted to engage said rack, a frame containing said bolt, a clamp screw mounted in said frame passing through the slot, whereby said bolt may be held in raised or lowered position, and means for manipulating said bolt.

1,395,540. BRAKE-OPERATING MECHANISM. CHARLES A. WARD, Mount Vernon, N. Y. Filed Mar. 18, 1919. Serial No. 283,310. 4 Claims. (Cl. 188—204.)



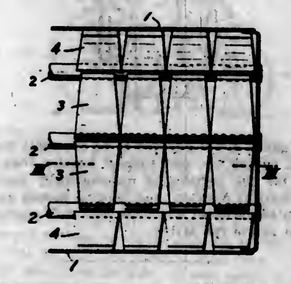
1. In a brake mechanism, the combination with two brakes, means for operating said brakes, comprising concentric shafts, one of which is mounted in bearings and the other of which is supported by the first, and connections between the respective shafts and the brakes, of bushings having a different coefficient of expansion from that of said shafts, concentrically spacing said shafts and constituting the only bearing support of that one of said shafts which is carried by the other.

1,395,541. RAILWAY-TIE. HENRY R. WHEELEY, York, Pa. Filed Oct. 14, 1920. Serial No. 416,515. 1 Claim. (Cl. 238—79.)



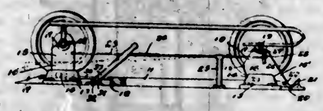
A railway tie comprising a metallic casing with a wooden core, shoulders of triangular cross section projecting upwardly from the top surface of said casing and provided with a perpendicular side adapted to engage the outer edge of the foot of a rail, anchoring projections in trellis formation formed on the under side of said casing and spaced apertures being provided in the top side of said casing for receiving spikes adapted to engage with said core.

1,395,542. PERFORATED ARCH AND BRICK THEREFOR. ALFRED H. WILLETT, West New York, N. J., assignor to American Arch Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 4, 1918. Serial No. 265,192. 3 Claims. (Cl. 110—87.)



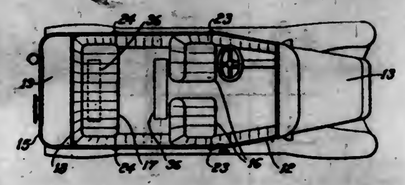
1. In an arch construction for fire boxes provided with supporting tubes, the combination of a plurality of reversible fire bricks adapted to be supported in rows upon the tubes, each of said fire bricks being narrower at one end than at the other so that if the bricks in a row be assembled with narrow and wide ends alternating in adjacent bricks an imperforate arch will be formed, but if assembled with all wide and all narrow ends together, a perforate arch will be formed.

1,395,543. AUTOMATIC MOTOR-VEHICLE-JACK DEVICE. GEORGE H. WILLEMS, Roanoke, Ill. Filed Feb. 5, 1920. Serial No. 356,480. 3 Claims. (Cl. 254—89.)



1. In a vehicle raising appliance, a lifting roll device having a fixed axis, and freely revoluble, a vehicle-mounted roll-engaging member having a lower surface inclined upwardly toward the front, its lower part being below the level of the top of the roll, and means to hold a vehicle against rearward movement at times.

1,395,544. AUTOMOBILE-BODY. JOHN ERUMAN, Greenwich, Conn. Filed Apr. 26, 1921. Serial No. 464,741. 7 Claims. (Cl. 296—26.)



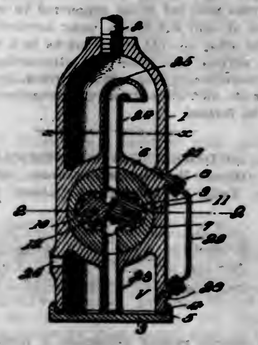
4. In an automobile, side frame members, a body element adapted to rest thereon, a pair of latch arms at each side of said body element adapted to engage the said frame elements, and a toggle bar device adapted to move said latch arms into and out of operative position, and to assume an approximate dead center position when said latch arms are in operative position, said latch arms having studs on their free ends adapted to engage in sockets in the said side frame members.

1,395,545. GAME. JOHN B. ALEY, Pittsburgh, Pa. Filed Mar. 10, 1920. Serial No. 364,754. 3 Claims. (Cl. 124—15.)



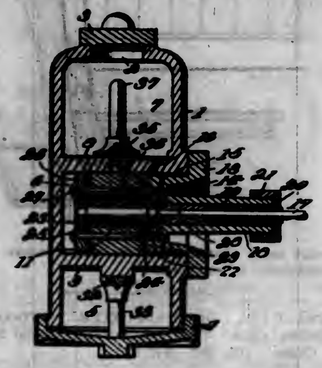
1. In a game, a doll adapted to be revolubly mounted on a support, having one end thereof heavier than its opposite end, for the purpose of automatically resetting the doll in a vertical position, and musical means on said doll adapted to be actuated when the said doll receives a blow tending to rotate the latter.

1,395,546. AIR-PUMP. CARL E. ANDERSON, Maywood, Ill. Filed Nov. 13, 1919. Serial No. 337,632. 6 Claims. (Cl. 230—90.)



1. An air pump including in combination, a pump casing having a central section dividing and separating the casing into a lower vacuum chamber and an upper compression chamber, said central section having a cylindrical bore, a pump body fitting said bore and having pump chambers therein, passages respectively connecting the pump chambers with the vacuum chamber and the compression chamber, rotating pump gears located in said pump chambers, means for supporting said pump gears, and means for closing the bore.

1,395,547. GAS-PUMP FOR REFRIGERATING SYSTEMS. CARL E. ANDERSON, Maywood, Ill. Filed May 19, 1920. Serial No. 382,470. 15 Claims. (Cl. 230—90.)



1. A gas pump for refrigerating systems including a casing, a pump chamber therein opening at one face of the casing, a housing or pump body fitting within said pump chamber, rotating pumping pistons in said housing or pump body, means for closing the pump chambers, and means for providing a liquid seal for said closing means.

1,395,548. CIGAR-LIGHTER FOR STEERING-WHEELS. EDWARD H. ANSHELM, Cambridge, Mass., assignor to Daniel I. Hayes, Pawtucket, R. I. Filed Jan. 20, 1920. Serial No. 352,729. 14 Claims. (Cl. 175—296.)



1. A steering wheel embodying therein a hollow spoke constituting a casing, a source of electric supply, and manually operated flame producing means located within said spoke and connected with said source of electric supply.

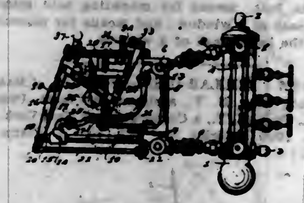
14. A cigar lighter having, in combination, a casing provided with an opening in the side thereof, a fuel receptacle adapted to oscillate within said casing and through said opening, a wick in said fuel receptacle, an electric switch, means to normally hold said fuel receptacle against said switch and thereby break an electric circuit therethrough, a pair of electrodes, and means to automatically close said electric circuit through said switch and ignite said wick during the oscillatory movements of said fuel receptacle.

1,395,549. GROUND-GRIPPING DEVICE FOR TRACTORS. HENRY BAUCHET, Sens, France. Filed Aug. 11, 1919. Serial No. 316,754. 2 Claims. (Cl. 301—44.)



1. In a detachable ground-gripping device for tractor wheels, the combination of a metal bar adapted to extend across the rim of the tractor wheel, formed at each end with a bent-over lug adapted to receive the edge of the tractor wheel rim, a pair of hook bolts engaging said lugs, shaped so as to bend around the adjacent wheel spokes, and a spring detachably connected at its end to said hook bolts.

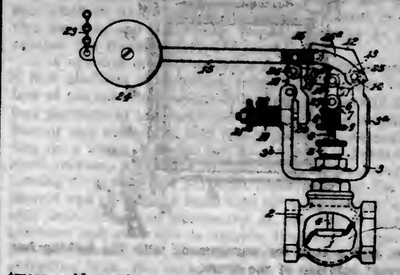
1,395,550. LOW-WATER SIGNAL FOR STEAM-BOILERS. WILLIAM C. BLUNDELL, Los Angeles, Calif., assignor of one-half to Mary R. Blundell and one-half to Oliver W. Smith, Los Angeles, Calif. Filed Nov. 19, 1917, Serial No. 208,041. Renewed Mar. 9, 1920. Serial No. 364,519. 2 Claims. (Cl. 200—137.)



1. In a device of the character described, including a rigid frame and an expansion tube extending in a substantially horizontal plane therefrom, said frame having upper and lower horizontal extensions thereon, a rod rigidly attached to the lower portion of said frame and extended at its outer end beyond the end of said expansion tube, a bar pivoted to the end of said expansion tube and extended upwardly and downwardly from its fulcrum, the lower end thereof being pivotally connected to said rod, a bar pivoted at its lower end to the lower extension of said frame and extending upwardly through and above the upper arm of said frame and having a contact member thereon, a bar connected with said contact bar at a point near the fulcrum thereof and also connected at its opposite end with the upper end of said first mentioned bar, and a stationary contact on said upper frame extension wherewith said first mentioned contact may be engaged when said tube is expanded, for the purpose described.

1,395,551. SNAP-MOVEMENT VALVE MECHANISM. CHARLES F. BRAND, Wheeling, W. Va. Filed Oct. 9, 1920. Serial No. 415,768. 5 Claims. (Cl. 137—139.)

1. A snap-movement valve mechanism comprising a valve, a yoke associated with said valve, a member fulcrumed upon an arm of said yoke and having flexible connection with the opposite arm of said yoke, a lever pivoted upon the first-mentioned arm of said yoke and having flexible connection with said member and adapted for movement to produce initial actuations of the latter, means yieldingly resisting said initial actuations and accelerating final movements of said member, flexible connections between said member and the stem of said valve, and yieldable means whereby said valve is maintained seated during elevating movement of said member until the accelerating movement occurs.



1,395,552. VELOCIPEDE. WILLIAM C. BRIDGES, North Easton, Mass. Filed Apr. 9, 1920. Serial No. 372,564. 1 Claim. (Cl. 208—113.)

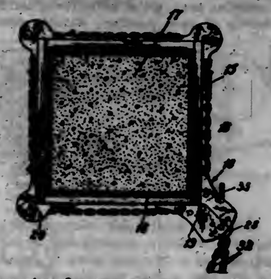


A velocipede comprising a pair of arcuate frame bars secured together intermediate their ends and having their lower ends diverging whereby to constitute a rear fork, the forward ends of said frame bars being disposed together and being formed near the extremity with outwardly curved portions which mate to define a collar, a head having a reduced portion revolubly engaged within said collar, a handle bar at the upper end of said head, a front fork carried by the lower portion of said head, a crank axle journaled through the lower end of said front fork and provided with pedals, a front wheel on said front axle within the front fork, a rear axle extending across the lower extremities of the frame bars, a pair of rear wheels rotatable upon said rear axle and slidable thereon whereby to dispose in contacting relation at the center thereof or at the ends thereof, and members secured upon said rear axle and engageable with said wheels whereby to hold in the latter in selected position.

1,395,553. CLAMPING DEVICE FOR MOLDS. DANIEL JAMES BROPHY, Montreal, Quebec, Canada. Filed Dec. 27, 1920. Serial No. 433,245. 1 Claim. (Cl. 144—291.)

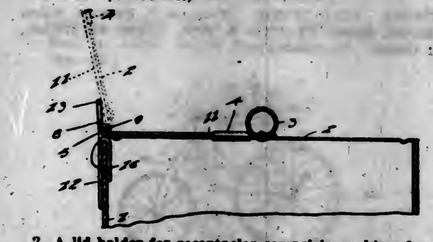
In a device of the character described, the combination of a plurality of supplemental corner members, each of said corner members comprising adjustable pivoted plates, flanges formed upon said plates, means engaging the flanges for locking the plates in adjusted positions, chain hooks provided upon said supplemental corner members, a chain passing around said corner members and engaging said hooks, a main adjustable corner member, said member comprising pivoted plates, flanges formed upon the pivoted plates of the main corner member, means engaging the flanges of the main corner member for retaining the plates of the main corner member in their adjusted positions, a drum journaled in said main corner member, hooks provided upon said drum for engaging said chain, flanges having openings therein formed upon said drum; an operating bar engageable in the openings of the flanges

for rotating said drum and drawing the corner members together, a locking bar engageable in the openings of the



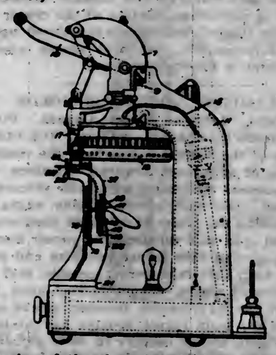
flanges, and a stop for engagement with the locking bar to prevent rotation of the drum.

1,395,554. LID-HOLDER FOR COOKING UTENSILS AND RECEPTACLES. WILLIAM W. BROWN, Medford, Oreg. Filed Mar. 25, 1921. Serial No. 455,599. 2 Claims. (Cl. 53—8.)



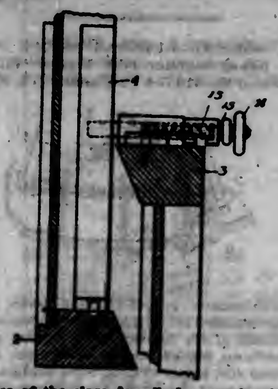
2. A lid holder for receptacles comprising a hinged rod, a pair of U-shaped members having their arms coiled about said rod to form hinge connections and one of said members secured to a receptacle and the other member secured to a lid, the coiled portions of one of said members positioned on the rod outwardly of the coiled portions of the other member to prevent the latter from sliding off of said rod.

1,395,555. WORK AND MATERIAL HOLDER FOR STAMPING-MACHINES. WILLIAM E. CHOATE, Hamilton, Mass., assignor, by mesne assignments, to Federal Finance Corporation, a Corporation of Massachusetts. Filed Feb. 5, 1920. Serial No. 356,555. 11 Claims. (Cl. 41—7.)



1. A device of the class described comprising a platen and an opposed apertured pressure plate shiftable relatively to the platen and having means for clamping a transfer medium adjacent the aperture therein.

1,395,556. WINDOW-LOCK. ANSON B. CLAY, Newton, Iowa; Allen Perry administratrix of said Anson B. Clay, deceased. Filed June 25, 1919. Serial No. 306,536. 1 Claim. (Cl. 292—175.)



In a device of the class described a member having an elongated socket defined by rearwardly diverging walls and provided at its lower end with an enlarged opening, the member having a cross bar defining the lower edge of the opening; a casing; a bolt slidable in the casing and having a solid wedge-shaped head, one end of the head being engaged within the casing when the other end of the head is engaged beneath the cross bar, the head being insertible into the socket by way of the opening and exerting a positive wedging action on the diverging walls of said member when the bolt is retracted forcibly; spring means for advancing the bolt; means for mounting said member on the upper sash of a window; and means for mounting the casing on the lower sash of a window.

1,395,557. COLLAR-DISPLAY FORM. CHARLES M. CONNOLLY, Troy, N. Y., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y., a Corporation of New York. Filed Nov. 6, 1920. Serial No. 422,149. 1 Claim. (Cl. 211—24.)



A collar display form having an upright member with a rearwardly projecting fin formed with a plurality of hooks adapted to receive the back portions of a plurality of collars supported one above another encircling the upright member.

1,395,558. SLIDING-TOP DESK. LEONARD S. CRONE, New York, N. Y. Filed Nov. 6, 1920. Serial No. 422,217. 3 Claims. (Cl. 45—91.)

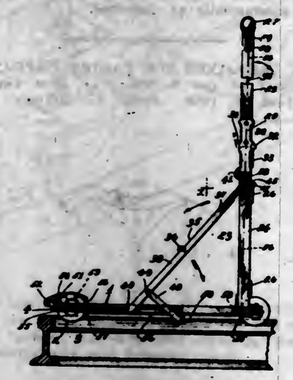
1. In a desk and filing cabinet, a body-member having filing compartments formed therein, a stationary top

thereon, horizontally sliding tops and cover-members mounted upon the body-member, supporting-brackets secured to the sliding-top and body-member and adapted to carry same in its horizontal movement and maintain it



throughout its movement at the level of the stationary-top, chambers formed at the ends of the filing compartments for housing the said supporting-brackets, and anti-friction-members formed upon the brackets and engaging between same and the walls of the chambers.

1,395,559. RAILROAD-FLAGMAN'S CARRIAGE. FREDERICK A. W. DAVIS, Pelham, N. Y. Filed May 23, 1916. Serial No. 99,271. 8 Claims. (Cl. 105—142.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



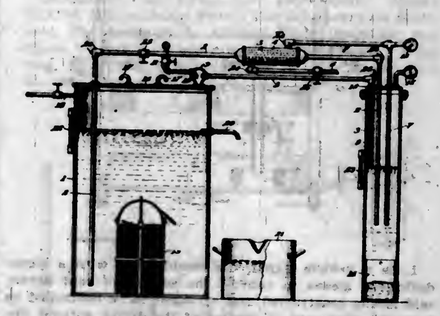
1. A foot carriage adapted to operate at high speed in balanced action upon a single railroad rail, comprising a platform member of restricted lateral area to afford a support only for the foot of the operator, a single roller member extending transversely of said foot platform and in the median line thereof and mounted one at each of the terminal front and rear ends of said platform, said respective roller members conforming to and affording a braced bearing upon the tread and also both sides of the head of the single rail, whereby they are operative in a balanced guide movement thereon, and a hand-hold member projective upwardly from said foot platform at the front thereof whereby the balanced action of the foot platform can be sustained by the operator under the inertia of the guided travel of the roller members upon the single rail, substantially as set forth.

2. A carriage operative upon a railroad rail, comprising a foot platform constituting a rest and support for the foot of the operator, rollers extending transversely of said foot platform at the front and rear and in the median line thereof and sustaining said foot platform in balanced action on a single railroad rail in travel in a guide movement thereon, a foldable upright mast or framework extending from said foot platform transversely at the front thereof and affording a hand-hold for the operator, and a brace extending rearwardly at one side of said foot platform and operative to sustain the mast in operative position and comprising means operating as a lock against the foldable action thereof.

3. A carriage operative upon a railroad rail, comprising a foot platform constituting a rest and support for the foot of the operator, rollers extending transversely of said foot platform at the front and rear and in the median line thereof and sustaining said foot platform in balanced action on a single railroad rail in travel in a guide movement thereon, a foldable upright mast or framework extending from said foot platform transversely at the front thereof and affording a hand-hold for the operator, a foldable brace extending rearwardly at one side of said foot platform and operative to sustain the mast in operative position against the foldable action thereof, and means extending from the foldable brace to the foot platform for locking said brace against its foldable action.

4. A carriage operative upon a railroad rail, comprising a foot platform constituting a rest and support for the foot of the operator, rollers sustaining said foot platform over a railroad rail and operative in a guide movement thereon, a foldable upright mast or framework extending from said foot platform and affording a handhold for the operator, a foldable brace operative to sustain the mast in operative position and constituting a lock against the foldable action thereof, and means for locking said brace against its foldable action.

1,395,560. APPARATUS FOR DETERMINING THE AMOUNT OF CERTAIN CONSTITUENTS IN GASES. EDWIN H. DE LANY and STEPHEN H. PAYNE, New York, N. Y. Filed Oct. 18, 1920. Serial No. 417,690. 6 Claims. (Cl. 23—3.)

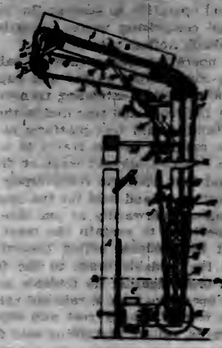


1. In gas absorbing apparatus, an absorbing tower adapted to contain an absorbing medium, a gas inlet having its discharge end submerged in said medium, and recording devices connected with said tower and with said inlet whereby differences in pressure in said tower and inlet may be ascertained.

1,395,561. SHEAF-ELEVATOR. ABRAHAM M. DELLINGER, Lancaster, Pa. Filed Nov. 17, 1919. Serial No. 338,560. 6 Claims. (Cl. 198—118.)

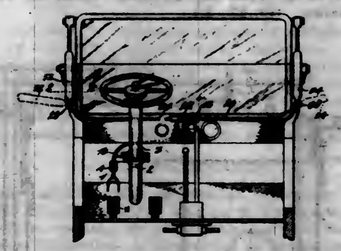
6. In an elevator, the combination of an endless carrier with a frame for the same consisting of three connected sections, and a pivot supported by a fixed structure and connected to the upper portion of the middle section for allowing horizontal turning of said middle section, the latter being connected to the lower part of the frame by a vertically disposed loose pivot substantially alined with the first mentioned pivotal connection to permit

free horizontal turning movement of the middle section relative to said lower section and slight compensating



sliding movement to allow for the slight relative displacement of the pivots.

1,395,562. SIGNAL-CONTROLLING DEVICE. GEORGE M. DOWD, New York, N. Y. Filed Apr. 7, 1919, Serial No. 288,053. Renewed Aug. 12, 1920. Serial No. 403,140. 7 Claims. (Cl. 116—52.)

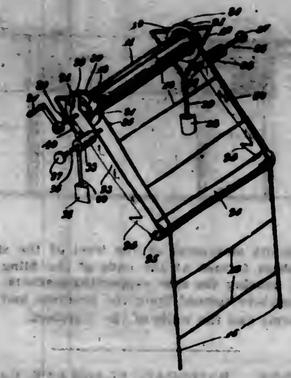


1. In a vehicle signal, the combination with a signal device, of means to control the setting of said device, said means constructed and arranged to be controlled by a lateral movement of one leg of the driver without displacing movement of the foot.

2. In a vehicle signal, the combination with a signal device, of means for setting said device including a member adapted to be engaged by the leg of the driver between the ankle and the knee to be moved by a lateral movement of the leg without displacing movement of the foot.

1,395,563. FLEXIBLE-LADDER SUPPORT. STANISLAUS THOMAS DRODZEWSKI, Toledo, Ohio. Filed Sept. 10, 1918. Serial No. 253,554. 1 Claim. (Cl. 256—43.)

In a flexible ladder support, the combination of a spindle provided with an operating handle, a pair of flat bars supporting said spindle, spurs at the lower ends of the bars for engaging the outer wall of a building, a spindle journaled in the extreme lower ends of said bars, said spindles adapted to guide and receive the flexible ladder, rods internally screwed to said bars, tubular supports for said rods on the outer sides of said bars, resilient springs in said supports abutting with one end against the outer sides of said bars and with the other against collars on said rods within said tubular supports, and



operating heads on the outer ends of said rods for permitting an attachment of the ladder support in a window opening, substantially as described.

1,395,564. RETAINER FOR LADIES' CAPE-COLLARS. MAGDALENA DE LOS S. ENSIQUEZ, New York, N. Y. Filed June 20, 1919. Serial No. 305,660. 1 Claim. (Cl. 2—98.)

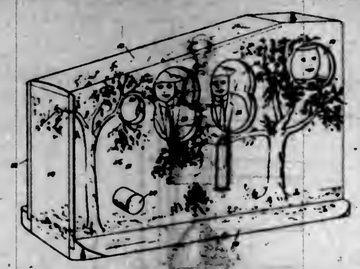


A temporary retainer as characterized, comprising a body portion shaped to cover the rear of the shoulders and neck of the wearer, said body portion having two non-extensible supporting throat portions for encompassing the neck of the wearer, a narrow waist extension pendant from said body portion, the end whereof is adapted to rest in service adjacent the waist of the wearer; a resilient belt permanently attached to said waist extension, the ends of said belt meeting for mutual engagement at the front of the person; and means for uniting in service, the ends of said throat extensions.

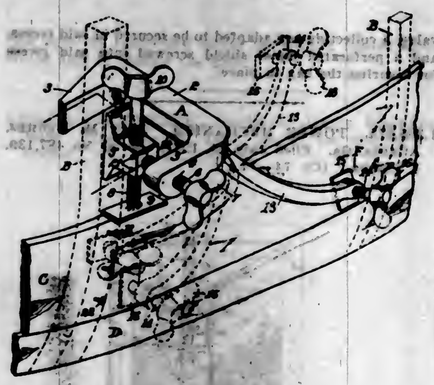
1,395,565. TOY. EDWARD ERICKSON, Fresno, Calif. Filed Dec. 4, 1920. Serial No. 428,510. 4 Claims. (Cl. 46—45.)

1. The combination with a housing having a wall provided with spaced slight openings, of a primary figure mounted for vertical movement within the housing and movable to project at the top thereof, a secondary figure

normally visible through one of the slight openings, and means coacting with both figures for actuating the secondary figure to shift the same to a position visible through another of said openings and simultaneously elevate the primary figure.

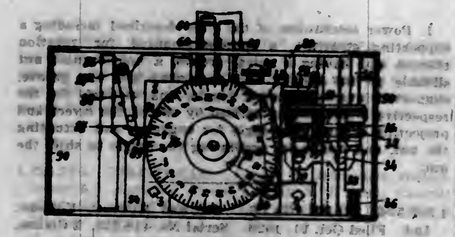


1,395,566. PLANKING-CLAMP. PHILIP H. FLUHR, Nyack, N. Y. Filed Aug. 6, 1920. Serial No. 401,654. 13 Claims. (Cl. 144—292.)



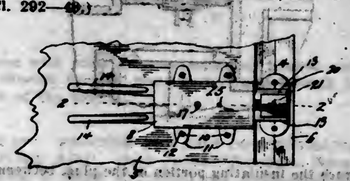
1. In a tool of the class described, gripping means, a clamping jaw movable relatively thereto and rotatably supported thereby, and a second clamping jaw swingingly connected with said gripping means.

1,395,567. AUTOMATIC GAS LIGHTER AND EXTINGUISHER. VICTOR FORTI, Paris, France. Filed Dec. 1, 1920. Serial No. 427,593. 10 Claims. (Cl. 161—9.)



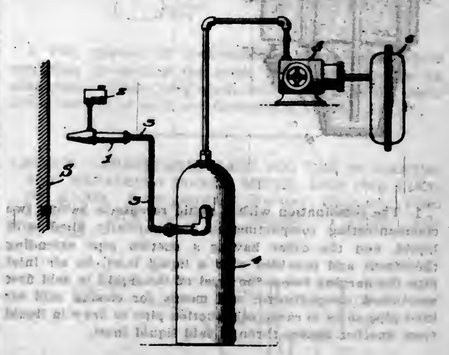
1. An automatic lighting and extinguishing apparatus comprising a clockwork movement actuating a graduated dial provided with peripheral notches and carrying a fixed pointer and two adjustable pointers, one of said adjustable pointers effecting the release of an actuating barrel for gas admission and for lighting the permanent and the temporary burners, the second adjustable pointer controlling said actuating barrel for the purpose of extinguishing the permanent burner, the said fixed pointer being used to effect the release of said actuating barrel to produce a partial extinguishing during the night.

1,395,568. LATCH. GEORGE FRANK, deceased, Titonka, Iowa, by MARY J. FRANK, executrix, Titonka, Iowa. Filed July 19, 1920. Serial No. 397,297. 1 Claim. (Cl. 292—69.)



A latch comprising a housing, a pair of pivotally connected latch bars in the housing and projecting from the ends thereof, one of the projecting ends having handle portions, and the other projecting ends being adapted to engage a keeper, a rotatable cross head between the bolts for spreading the same, a spindle carrying the cross head and projecting rearward from the housing, and an operating handle on the outer end of the spindle, the aforesaid handle portions of the bolts and the operating handle of the spindle being on opposite sides of the closure to which the latch is applied.

1,395,569. METHOD OF DRYING OR SETTING PAINTS, VARNISHES, ENAMELS, OR THE LIKE. HARRY BUXTON HARTMAN and FRANK EDWARD HARTMAN, Scottdale, Pa., assignors to Electric Water Sterilizer and Ozone Company, a Corporation of Pennsylvania. Filed Aug. 10, 1920. Serial No. 402,635. 4 Claims. (Cl. 91—68.)

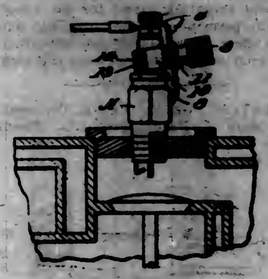


1. A method of drying or setting paints, varnishes, enamels or the like which consists in subjecting the paint composition to the action of ozone simultaneously with the application thereof.

1,395,570. TESTING DEVICE FOR SPARK-PLUGS. GRANVILLE S. P. HOLLAND, Jr., Norfolk, Va. Filed Apr. 6, 1920. Serial No. 371,613. 3 Claims. (Cl. 175—183.)

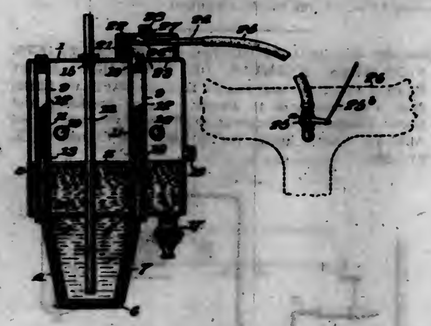
1. A short circuiting device for spark plugs, comprising a metallic conductor adapted to engage the upper

terminal and the body of a spark plug, a spring clip located intermediate the ends of the conductor and adapted



to embrace the insulating portion of the plug, between the terminal and the body, and a handle of insulating material.

1,395,571. CARBON-REMOVING MEANS FOR INTERNAL-COMBUSTION ENGINES. FRANK P. HOWARD, Lisbon, N. H. Filed Feb. 28, 1920. Serial No. 362,066. 4 Claims. (Cl. 123—190.)



1. The combination with a liquid receptacle having two communicating compartments, one partially filled with liquid, and the other having a suction pipe extending therefrom, and provided with a liquid inlet, an air inlet pipe discharging below the level of the liquid in said first mentioned compartment, and means for closing said air inlet pipe so as to cause said suction pipe to draw in liquid from another source through said liquid inlet.

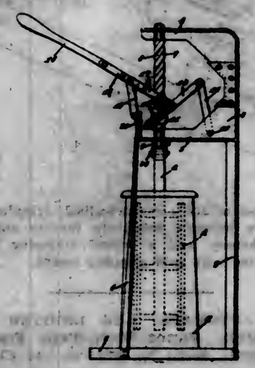
1,395,572. APPARATUS FOR TAKING SOUNDINGS. PERCY SHAFORTH HUDSON, Liverpool, England. Filed Jan. 31, 1921. Serial No. 441,236. 3 Claims. (Cl. 73—5.)

2. In apparatus for taking soundings, an attachment for collecting samples from the sea bottom, comprising in combination a sinker, a cup-shaped receptacle having a threaded recess in the lower part thereof, a rod connecting said receptacle to the sinker, a conical valve slidable on the rod and adapted when in its lowest position to close the mouth of the receptacle when the apparatus is being hauled up, the bottom of the sinker being provided with a screw shaped to receive the upper part of the sliding



valve, a collecting bag adapted to be secured in said recess, and a perforated metal shield screwed into said recess for securing the bag in place.

1,395,573. POWER MECHANISM. JOHN M. HUGHES, Atlanta, Ga. Filed July 23, 1921. Serial No. 487,139. 3 Claims. (Cl. 74—14.)

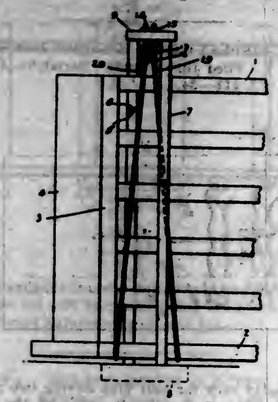


1. Power mechanism of the class described including a supporting structure, a spindle mounted for rotation thereon and having a spiral groove, a nonrotatable nut slidable on the spindle and projecting into the groove, connected levers forming a toggle, link supports for the respective levers, means carried by one of the levers and projecting beyond the toggle for engaging and actuating the nut, and means for oscillating the toggle to shift the nut.

1,395,574. FARM-GATE. THOMAS HUSTON, Kokomo, Ind. Filed Oct. 21, 1920. Serial No. 418,528. 2 Claims. (Cl. 20—76.)

1. A supporting means for a gate, comprising a pair of gate supporting loops in spaced relation, suspension means

to which said loops are attached, said loops co-acting during the opening of the gate to maintain a rigid connec-



tion with the suspension means to create a torsion effect which aids in closing the gate.

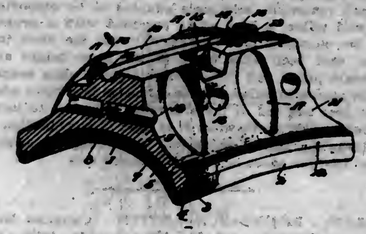
1,395,575. LANDSCAPE. IDA HELEN JARVIS, Brookline, Mass. Filed Jan. 17, 1921. Serial No. 437,875. 3 Claims. (Cl. 41—84.)



1. A device of the class described comprising a backing board, a plurality of relatively large feathers secured against said backing board to represent a number of trees, and comparatively small feathers secured against said board to simulate the undergrowth beneath the trees.

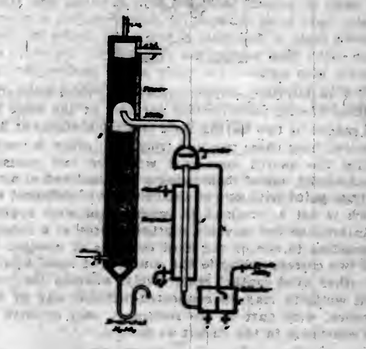
1,395,576. TIRE-TREAD. AARON E. JENNINGS, Owensboro, Ky., assignor of one-half to S. J. Gish, Central City, Ky. Filed Dec. 29, 1919. Serial No. 347,981. 3 Claims. (Cl. 152—1.)

2. A tire tread comprising a body having a circumferential tread surface and oppositely sloping side faces, the body being formed at intervals upon its said side faces with traction lugs and between the lugs with recesses extending transversely into the body, the said body being



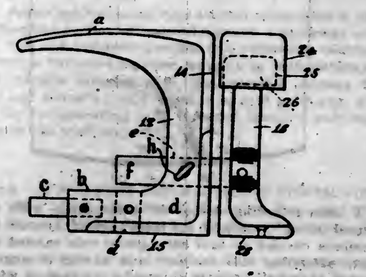
formed with other recesses oppositely located and opening through the said tread surface and through the side faces of the body.

1,395,577. PROCESS FOR THE CONCENTRATION OF NITRIC ACID. OLAF JENSEN, Notodden, Norway, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Filed Feb. 24, 1920. Serial No. 360,618. 3 Claims. (Cl. 23—1.)



1. The process of concentrating nitric acid, which comprises circulating the crude nitric acid through an evaporator, withdrawing nitric acid vapor from the circulating current of acid, and drying said vapor.

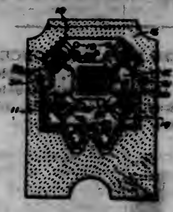
1,395,578. ADJUSTABLE LAST FOR USE IN MAKING AND REPAIRING BOOTS, SHOES, AND THE LIKE, BY HAND. FRED JOHNSON, Burnley, England. Filed June 10, 1919. Serial No. 303,063. 1 Claim. (Cl. 12—123.)



A shoe last, comprising a body portion having two bases arranged at a right angle to each other and each pro-

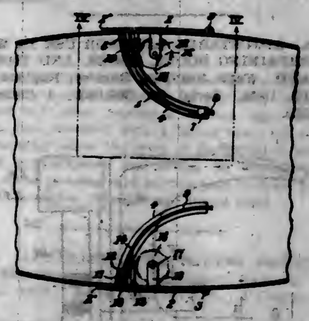
sided with a similar slot, one of the bases forming also a pillar, and the other base having a heavy side plate projecting from it substantially parallel to the said pillar, a small removable sole piece adapted to be supported by the said pillar, a heel pillar provided with a projecting bar for engaging interchangeably with the slots in the bases, said heel pillar being of the same height as the aforesaid pillar and the sole piece when supported by the aforesaid pillar, and an extension heel piece adapted to fit over one end of the aforesaid heel piece to increase its height and width when it is used in combination with the large size base-plates, thereby rendering the same tool to be used for shoes of various different size.

1,395,579. RESISTANCE-SWITCH. CHARLES BROOKE JONES, above Cynwyd, Pa. Filed Jan. 16, 1920. Serial No. 351,852. 6 Claims. (Cl. 219—48.)



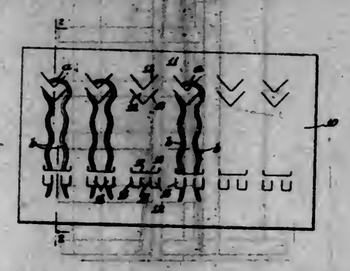
1. A switch comprising a plurality of fixed contacts, two of them having their contact surfaces at the same height and spaced by two having their contact surfaces at heights different from these two and from each other, a resistance within the switch connected with the two contacts of equal height, one of them being a terminal and at an intermediate point with one of the contacts of different height, which is not a terminal, in combination with a plurality of interconnected movable contacts, three at a height corresponding to one of the fixed contacts of unequal height and two corresponding to the contacts of equal height and the other fixed contact respectively, whereby the terminal fixed contacts may be connected without any of the resistance, with part of the resistance only or with all of the resistance in the circuit as desired.

1,395,580. SHIP-RETARDING DEVICE. LOUIS JONESIC, Joliet, Ill. Filed Jan. 22, 1921. Serial No. 439,209. 1 Claim. (Cl. 114—145.)



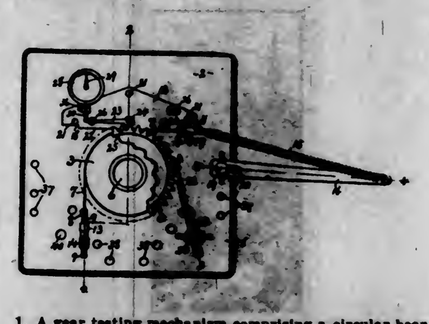
A ship retarding device in combination with a ship, hinged plates carried by the sides thereof, arcuate tubular members carried by said ship, guide rods carried by said plate extending into the ship and having a longitudinal groove cut in the face at the inner arc thereof with rack teeth formed in the bottom of the groove, a pinion journaled adjacent the arcuate rod and having one edge resting into the said groove for engagement with the rack teeth, a motor carried by said ship having a gear upon one end for engagement with the said pinion and the pulley upon the opposite end for rotating said shaft.

1,395,581. DISPLAY-CARD. ADALBERT JOSEPHSON, New York, N. Y. Filed June 9, 1921. Serial No. 476,161. 4 Claims. (Cl. 211—24.)



1. A display card for hair pins having two parallel series of slits formed therein, the slits of the uppermost of said series being substantially V shaped and arranged in pairs one above the other and each pair forming a V shaped tongue with the point of the V directed toward the opposite edge of said card, and the lowermost of said series being groups of U shaped slits forming tongues, each of said groups being slightly offset from the corresponding V shaped tongue at the upper edge of said card.

1,395,582. GEAR-TESTING MECHANISM. OSCAR C. KAYLE, Syracuse, N. Y. Filed Aug. 2, 1919. Serial No. 315,020. 9 Claims. (Cl. 73—51.)

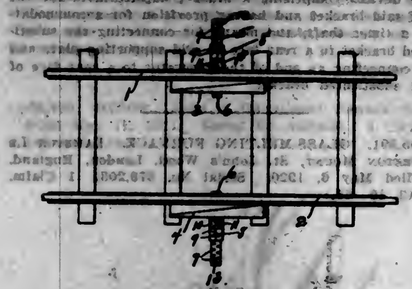


1. A gear testing mechanism comprising a circular bearing, a member in rolling contact with said bearing, means for maintaining said contact, means for supporting a gear to be tested coaxially with the circular bearing, a contact device mounted upon and movable with said member in contact with a tooth of the gear and having an independent movement caused by imperfections in said tooth, and means for indicating the amount of movement of said device from a normal position.

1,395,583. HOLDER FOR CAR AND LOCOMOTIVE REPLACING FROGS. DARWIN B. KEITH, Fort Worth, Tex. Filed June 11, 1921. Serial No. 476,745. 3 Claims. (Cl. 104—253.)

1. A frog holder comprising a bar having an upstanding inclined gripping member integral therewith at one end and an upward bend in said bar near said gripping member, a shoe slidably mounted on said bar and consisting of

a body member mounted under said bar and lateral members bent above said bar and bolted together and forming



an inclined gripping member for cooperating with the gripping member on said bar, and means for positioning said shoe at different adjustments on said bar.

1,395,584. MULTIPLE-UNIT ELECTRIC HEATER. WILLIAM A. KENNEDY, Leonia, N. J., and AUGUST J. MOTTLAU, Far Rockaway, N. Y.; said Mottlau assignor to said Kennedy. Filed May 26, 1920. Serial No. 384,445. 11 Claims. (Cl. 219—45.)



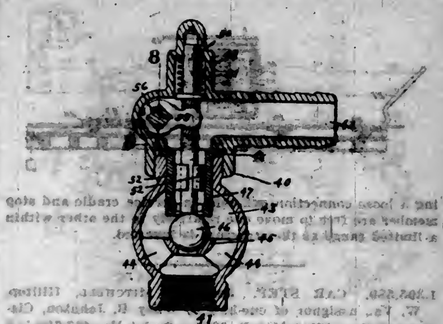
1. In combination, a plurality of reflectors outwardly pointing in different directions as much as 90 degrees apart; heating units associated with the reflectors in different numbers respectively; and means for supplying current to said units in various numbers.

1,395,585. SOCKET-WRENCH. THOMAS S. KIRBY, Chattanooga, Okla. Filed Sept. 3, 1920. Serial No. 407,840. 4 Claims. (Cl. 81—112.)



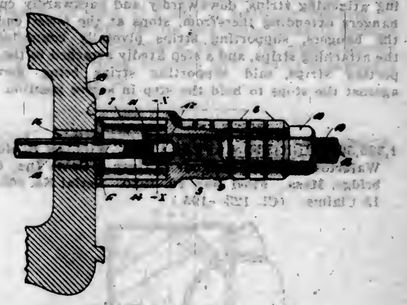
1. A wrench including a head provided with converging shoulders, and coacting jaws slidably connected with the head and having shanks substantially triangular in cross section and provided with inclined faces coacting with said shoulders whereby the jaws will be urged toward each other as the head is advanced upon the jaws, corresponding faces of the shanks abutting when the jaws are closed.

1,395,586. AUTOMATIC SHUT-OFF VALVE. WILLIAM P. KNICKERBOCKER, Irvington, N. J. Filed July 20, 1918. Serial No. 245,882. 4 Claims. (Cl. 137—139.)



1. In a valve of the character described, the combination of a casing having an inlet, an outlet and a valve port connecting said inlet and said outlet, a valve controlling said port and mounted upon one side thereof to close the same upon a preponderance of pressure upon that side of the port on which the valve is mounted, a rigid plunger on the other side of the port for holding said valve open, guides independent of the valve for holding said plunger against lateral displacement, a spring normally actuating said plunger to hold the valve yieldingly open, and means for opening said valve against pressure.

1,395,587. CAM-SHAFT REMOVER. JOHN MCLACHLAN, East Elmhurst, N. Y. Filed July 26, 1920. Serial No. 398,926. 4 Claims. (Cl. 29—85.)



1. A device for removing cam-shafts, comprising a casing, a chamber portion at one end thereof, a guideway connected with the chamber portion and extending laterally therefrom, a threaded member movable in said guideway, a head member integral with the threaded member for guiding and centering said member in said guideway, and means for reciprocating said threaded member and head member in the guideway.

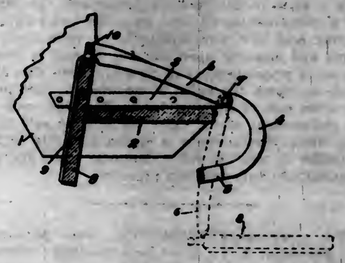
1,395,588. APPARATUS FOR HANDLING SEWER-PIPE AND THE LIKE. WALTUS H. MATHEW, Toronto, Ohio. Filed Mar. 29, 1920. Serial No. 369,595. 7 Claims. (Cl. 214—1.)

1. In a conveyer for a cylindrical article, a carrier consisting of an invertible frame, a cradle adapted to engage upon one side the cylindrical surface of the article and mounted in said frame, and a stop member also mounted

in said frame and adapted to extend across the end of the article when in place in the cradle member, the mounting of the cradle end of the step member in the frame including a loose connection, whereby in service cradle and step member are free to move one relatively to the other within a limited range as the structure is inverted.

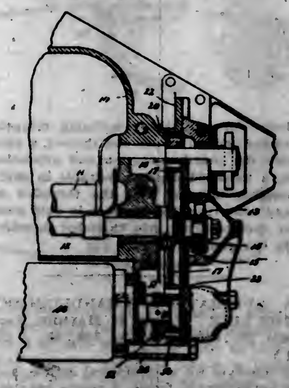


1,395,589. CAR-STEP. JOHN R. MITCHELL, Hilltop, W. Va., assignor of one-half to Wiley B. Johnson, Clemont, Va. Filed May 7, 1921. Serial No. 467,728. 3 Claims. (Cl. 105—447.)



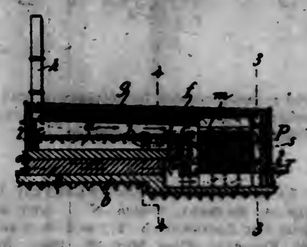
1. An extension step attachment for car steps, comprising attaching strips, downwardly and backwardly curved hangers extending therefrom, stops at the lower ends of the hangers, supporting strips pivotally connected to the attaching strips, and a step fixedly attached to the supporting strips, said supporting strips being movable against the stops to hold the step in active position.

1,395,590. IGNITION APPARATUS. WILLIAM B. MOORE, Watertown, Mass., assignor to Gray & Davis Inc., Cambridge, Mass. Filed Mar. 12, 1920. Serial No. 365,230. 13 Claims. (Cl. 123—195.)



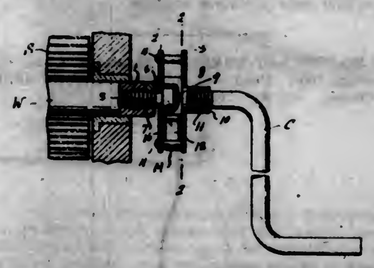
1. Devices for providing battery ignition for an engine which has a laterally extending supporting plate, a bracket removably of said plate and secured to the side of the engine, a generator mounted removably of said bracket; said device comprising a bracket substitutable for the first said bracket and having provision for accommodating a timer shaft, and means for connecting the substituted bracket to a rear face of said supporting plate and for connecting an end of the generator to a rear face of said substituted bracket.

1,395,591. GLASS-MELTING FURNACE. LAMBTON LE BRETON MOUNT, St. John's Wood, London, England. Filed May 6, 1920. Serial No. 379,208. 1 Claim. (Cl. 49—55.)



A glass melting furnace comprising a tank for molten glass having raised bottom regions at opposite sides thereof and a vertical flow feed outlet through each such region, a bridge beneath which the molten glass is constrained to flow before reaching the raised bottom portions aforesaid, fluid fuel burning means at and above one end of the tank, a recuperator at the opposite end thereof, and a casing having recesses below the raised bottom regions of the tank for the reception of molds into which the glass is to be delivered.

1,395,592. OVERWINDING-PREVENTER. DANIEL E. OSOM, Bennettsville, S. C. Filed Apr. 26, 1920. Serial No. 376,640. 4 Claims. (Cl. 185—43.)



2. The combination with a shaft and means placed under tension by the shaft upon rotation thereof; of a winding device comprising two plates in spaced relation, means connecting said plates and maintaining the same in spaced relation, a shaft extending through one of the plates and fixed thereto, one end portion of the shaft being engageable with the first named shaft, the opposite end portion of said second named shaft extending between the plates, a block positioned between the plates and provided with a means in a face to receive the end portion of the second named shaft between the plates, whereby said second named shaft serves as a support for said block, said block being provided with a trunnion freely directed through the second plate, a rotating medium coacting with the trunnion, and a spring member

operatively supported by the plates and frictionally engaging the block, whereby the shaft and block may rotate in unison, the periphery of the block being provided with means coacting with the spring member, to give an audible signal upon rotation of the block independently of the second named shaft.

1,395,593. HINGE. JOHN M. OSNIANSKI, Newark, N. J. Filed May 11, 1921. Serial No. 468,620. 4 Claims. (Cl. 16—126.)



2. A temple hinge formed of two members, each member comprising a base plate and transversely projecting knuckles, said knuckles being closely adjacent one end of the base plate, the knuckles being separated by a space equal to the width of a knuckle, each base plate at the outer edge of the knuckle being beveled to form a miter abutment for the swinging members, said abutment extending the entire width of each member, the members being identical in outline in cross-section.

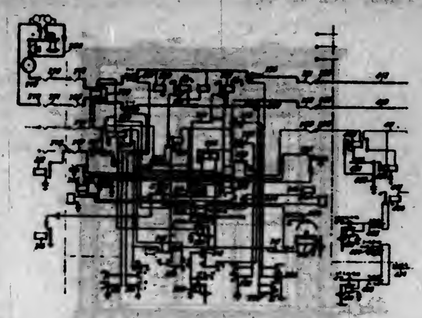
1,395,594. BOX OR RECEPTACLE. RAYMOND O. PFEIFFERLE, Madelia, Minn. Filed Dec. 15, 1919. Serial No. 345,066. 3 Claims. (Cl. 40—10.)



1. The combination with a box cover having a depending flange, a label holding frame having a depending flange arranged to fit about and extend below the flange of the box cover, an inwardly extending flange arranged in superposed relation to the box cover and adapted to project forwardly and overhang the box cover to provide therebetween a compartment for the reception of the label, the flange of said frame having a slot therein of less width than the diameter of said label, whereby the label will have to be sprung into position.

1,395,595. TELEPHONE SYSTEM. LIPA POLINKOWSKY, Antwerp, Belgium, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 1, 1919. Serial No. 334,021. 15 Claims. (Cl. 179—27.)

1. In a telephone exchange system, telephone lines, an operator's position, an indicating mechanism at said position, a group of trunks leading to said position, said indicating mechanism being common to the trunks of said group, means for extending said lines over said trunks to the operator's position, and means controlled by said indicating mechanism for rendering said trunks non-selectable when a predetermined number of lines have been extended to the operator's position.

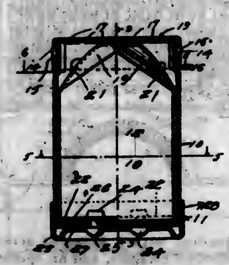


1,395,596. RAIL-FASTENER. JOHN B. ESSTMAN, Washington, N. C. Filed Aug. 30, 1920. Serial No. 406,951. 5 Claims. (Cl. 238—60.)



1. In a rail fastener, the combination with a tie having openings in its sides, of a pair of fastening members removably engaged with the tie, and means passable through the members and openings of the tie for simultaneously drawing the fastening members into binding engagement with the rail and tie.

1,395,597. CONDIMENT-HOLDER. ALBERT O. ROBERTS, Philadelphia, Pa. Filed Aug. 3, 1920. Serial No. 400,919. 3 Claims. (Cl. 65—57.)



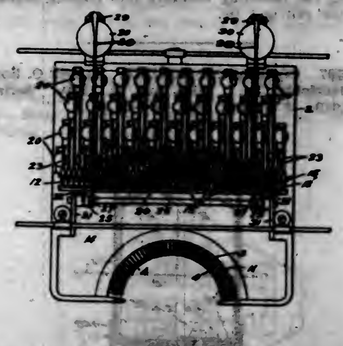
1. A condiment holder having a cylindrical casing, a removable perforated cap or cover and a revoluble base, and an agitator and ejector arranged within the casing and carried by the base, said agitator and ejector consisting of a plate disposed diametrically with its edges arranged adjacent to the side wall of the casing and provided at its upper end with inclined wings integral therewith and extending on opposite sides of the agitator and ejector and having their upper edges arranged in scraping relation with the under surface of the cap or cover.

1,395,592. REFRIGERATOR. Howard H. Dow, Louisville, Ky. Filed May 29, 1920. Serial No. 385,208. 9 Claims. (Cl. 62—97.)



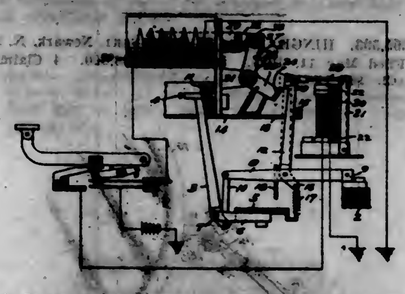
An ice box including an outer heat insulating casing, an inner food receptacle having walls of thin heat conducting material, said receptacle being spaced from the sides and top of the casing to form an ice receiving space, access means from the exterior end of the casing to the food receptacle and ice space and a supporting lattice frame within the food receptacle, said frame constituting means for stiffening the thin walls of the food receptacle and preventing bending thereof, said frame being exposed to the interior of the food receptacle whereby to permit attachment of food supporting hooks.

1,395,599. ELECTRICAL ACTUATING MEANS FOR TYPEWRITER TYPE-BARS AND OTHER DEVICES. Ferdinand Satterstrom, Hastings, Minn., assignor to Magnetic Power Transmitter Company, Faribault, Minn., a Corporation of Minnesota. Filed Jan. 31, 1920. Serial No. 355,487. 7 Claims. (Cl. 197—14.)



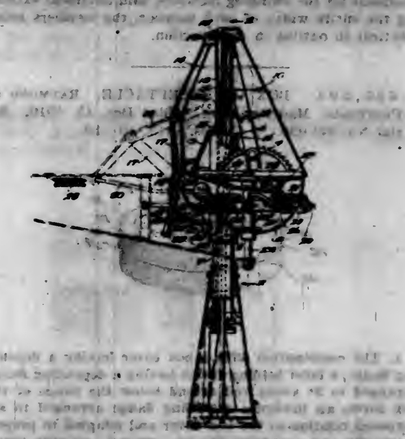
1. The combination, with a series of actuating levers, of a series of selecting magnets, and an operating magnet, each selecting magnet, when energized, serving to bring the corresponding actuating lever into position to be moved by the operating magnet, a series of keys corresponding to the actuating lever, each provided with a contact device, and a universal contact bar, movably supported and arranged to be operated by any key, each key serving, when operated, to first bring its contact device into connection with said contact bar, and thereafter to move said bar to close an electrical circuit through said bar, the operating magnet and the selecting magnet corresponding to the operated key.

1,395,[illegible]. ELECTRICAL ACTUATING MEANS FOR TYPEWRITER TYPE-BARS AND OTHER DEVICES. [illegible], Minneapolis, Minn., assignor to Magnetic Power Transmitter Company, Faribault, Minn., a Corporation of Minnesota. Filed Oct. 29, 1920. Serial No. 420,485. 5 Claims. (Cl. 197—14.)



1. In an electrical actuating mechanism of the class described, the combination with a movable power-bar or member, of a plurality of magnets, armatures connected to and coöperating with said bar, and arranged to be actuated by said magnets, and means stopping the movement of one of the armatures before the other armature reaches the limit of its movement.

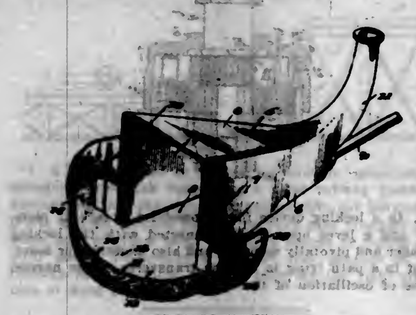
1,395,601. WINDMILL. Daniel E. Scholes, Chicago, Ill., assignor to Aermotor Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 7, 1921. Serial No. 450,279. 21 Claims. (Cl. 170—47.)



1. In a windmill, the combination with a wind wheel having a substantially horizontal shaft; of a pinion upon said shaft; a gear wheel in mesh with said pinion; a casing inclosing said gearing and comprising an upper or cover portion and a lower or body portion closed by said cover portion and on which body portion said shaft, pinion, and gear wheel are rotatively supported, this body portion of the casing having an upright open ended sleeve portion located between the axes of said pinion and gear wheel; an upright tubular column surrounded by and constituting a bearing for said sleeve portion of the casing to enable the casing and the parts carried thereby to turn in a substantially horizontal plane of rotation; an upright load shaft passing through the tubular column and into the cover portion of the casing where it has power connection with the gear wheel; and mechanism upon

the exterior of the casing for pivoting said wheel in and out of the wind and having an operating connection extending through the tubular column and which connection is upon the exterior of the casing above said column.

1,395,602. RESONANCE-CHAMBER FOR SOUND-REPRODUCING APPARATUS. Hermann Schroder, New York, N. Y. Filed June 4, 1920. Serial No. 386,466. 5 Claims. (Cl. 181—27.)



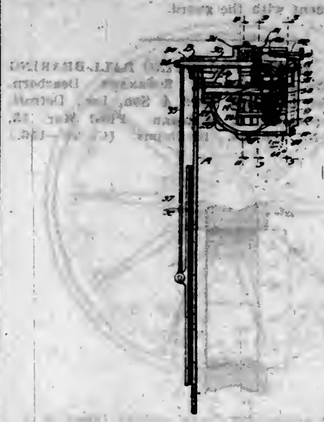
1. A resonance chamber for sound reproducing apparatus having in its lower portion a bottom, and a wall completely surrounding the bottom and providing a basin adapted to contain a volume of liquid.

1,395,603. PISTON-PACKING. Henry Sharl, Cleveland, Ohio. Filed Mar. 26, 1921. Serial No. 456,282. 2 Claims. (Cl. 74—169.)

1. In combination a piston having one or more circumscribed grooves therein and a packing ring in said groove or grooves comprising a continuous resilient packing ring divided at a single point and having a partly cylindrical and a partly conical surface at its inner side, said packing being substantially the same in width as the width of the groove in which it is disposed, and a flat rolled spring steel follower ring rolled and pressed into beveled form engaging the beveled surface on the inner side of the outer packing pressing outward and downward engaging one of the sides of the circumscribed groove in the piston.

1,395,604. WINDSHIELD-CLEANER. Stephen G. Skinner, Wilmette, Ill. Filed Feb. 14, 1921. Serial No. 444,718. 4 Claims. (Cl. 121—164.)

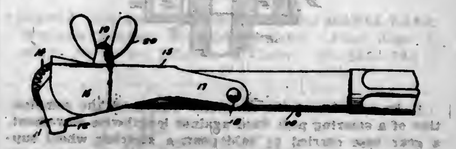
1. A device of the class described comprising a pair of opposed cylinders, connected pistons adapted to reciprocate in said cylinders, a suction conduit, said suction conduit comprising a terminal in the form of a tube having a flanged end, means carried with the cylinders providing a surface over which the flanged end of the conduit is adapted to move, there being two ports in said last mentioned means with which said tube may communicate, each port communicating with one of said cylinders, a snapover device comprising a quick motion arm movable in a plane parallel to the surface aforesaid, an aperture in said arm through which said tube freely extends, a spring acting between said arm and the flanged end of said tube, and tending at all times to urge the flanged end of the tube against the aforesaid surface, and means carried with the pistons adapted to operate the snapover device to cause said tube alternately to communicate with said ports.



1,395,605. CHAIN-TIGHTENING LEVER. William B. Smith, Niagara Falls, N. Y., assignor to American Chain Company, Inc., a Corporation of New York. Filed Jan. 20, 1910. Serial No. 272,160. 6 Claims. (Cl. 24—69.)

3. A chain tightening lever having connections near one end with the ends of the chain to be tightened, one of said connections being detachable, and having near its other end a normally open hook fashioned to engage a torsionally displaced link of the tightened chain and adapted to be locked thereto by the resistance of said link to torsional displacement, said hook being offset in helical form from the body of the lever, and the tip of the hook overlapping the chain edge line of the lever body.

1,395,606. EMERY-WHEEL DRESSER. Carl E. Soderstrom, Muskegon, Mich. Filed Jan. 13, 1920. Serial No. 351,206. 1 Claim. (Cl. 125—37.)



The combination with an emery wheel dressing tool having a handle provided with a bifurcated head rotatably supporting a dressing element and said head having a vertical opening arranged rearwardly of the bifurcation, of a guard disposed over the head and handle and including side and top walls, said top wall having its forward portion inclined upwardly and disposed near the dressing element, said side walls being arranged over the sides of the head and extended rearwardly beyond

the rear end of the top wall to form arms, means pivoting arms to the handle, a bolt in said opening and extending through the top wall of the guard, and a nut on said bolt for engagement with the guard.

1,395,607. ART OF PRODUCING BALL-BEARING STRUCTURES. Charles B. Sorensen, Dearborn, Mich., assignor to Henry Ford & Son, Inc., Detroit, Mich., a Corporation of Michigan. Filed Mar. 15, 1920. Serial No. 366,664. 15 Claims. (Cl. 29—156.)



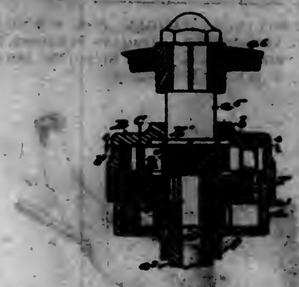
1. The method of producing a ball race members which consists in subjecting the member blank to pressure application intermediate the sides of the blank to vary the density of the blank cross-sectionally and produce an embryo race member having an approximate race groove face and with the portion of greater density corresponding approximately with the bottom of the groove, and then completing the groove by a removal of groove face material.

1,395,608. STEERING-WHEEL LOCK. Theodore D. Stanley, Detroit, Mich., assignor to Leland Lock Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 17, 1919. Serial No. 338,615. 9 Claims. (Cl. 70—129.)



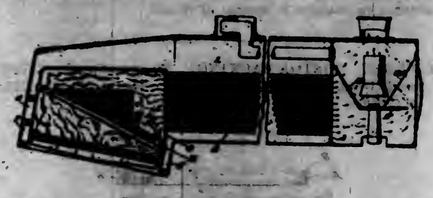
1. In a device of the character described, the combination of a steering post fixed against lengthwise movement, a gear case carried by said post, a steering wheel supported by a stub shaft adapted for lengthwise movement with reference to the steering post, planetary gearing housed in the gear case for operably connecting the stub shaft with the post, a swinging annulus completely encircling the stub shaft and one of said gears and shiftable to a concentric or an eccentric position and adapted to maintain the steering wheel in either an operative or an inoperative relation to the steering post, and manually operable means for shifting the position of the swinging annulus.

1,395,609. LOCK FOR STEERING-WHEELS. Theodore D. Stanley, Detroit, Mich., assignor to Leland Lock Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 17, 1919. Serial No. 338,616. 7 Claims. (Cl. 70—129.)



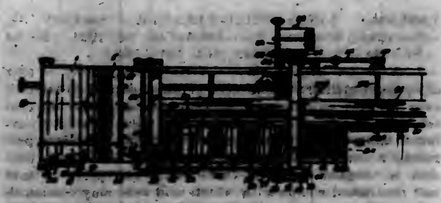
5. In a locking device for automobiles, a locking member, and a lever operatively connected with the locking member and pivotally mounted and also mounted for movement in a path lying in a plane transverse to the normal plane of oscillation of the lever.

1,395,610. BOILER-FURNACE. Joseph H. Stannard, Jr., Columbia, S. C. Filed Oct. 7, 1919. Serial No. 328,150. 3 Claims. (Cl. 110—37.)



3. In a horizontal fire tube boiler, including a fire box provided with a grate, a crown sheet and a substantially vertical tube sheet, an arch extending from side to side of the fire box and throughout the greater part of the length thereof, said arch including an upwardly projecting portion, substantially triangular in longitudinal section with its vertical portion extending to approximately above the level of the lower half of the series of fire tubes and spaced from and parallel to the tube sheet, for the purpose described.

1,395,611. THRESHING-MACHINE. James Sidney Starling, North Tonawanda, N. Y. Filed Oct. 11, 1915, Serial No. 55,299. Renewed Jan. 22, 1921. Serial No. 439,317. 15 Claims. (Cl. 130—13.)



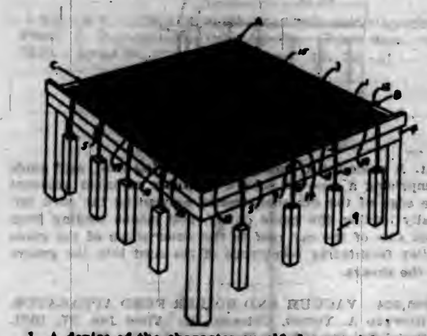
5. In a flax thrashing machine the combination of a feeding table, means for feeding flax straw along said table, holding the straw in a position transversely to the table with the bolls of the straw overhanging the edge of the table, an upper and lower series of rubbing rollers for rubbing the bolls of the straw as the straw moves along the table and a beater for beating the bolls after it passes from the rollers.

1,395,612. LANDING STAGE OR STATION FOR AIR-CRAFT. William J. Stewart, Philadelphia, Pa. Filed Dec. 16, 1920. Serial No. 431,110. 5 Claims. (Cl. 244—2.)



1. A landing stage or station for aircraft comprising a skeleton framework supporting a rigid runway platform having terminal portions arranged at different horizontal levels and an inclined portion between said terminal portions, said platform being formed of boards or planks laid with spaces therebetween for the free passage of air through said platform, thereby relieving the rigid structure of wind stresses.

1,395,613. WIRE-SCREEN-STRETCHING DEVICE. Frederick A. Stickle, Cincinnati, Ohio, assignor, by mesne assignments, to The Lunkenheimer Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 17, 1919. Serial No. 283,173. 8 Claims. (Cl. 140—109.)



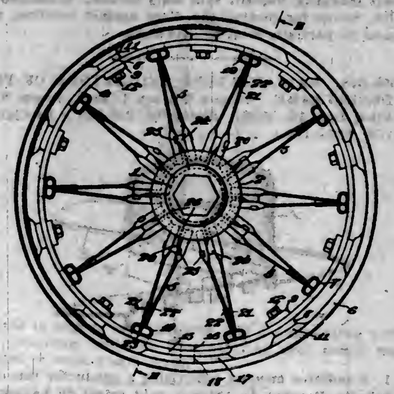
1. A device of the character specified, comprising a supporting means for screen frames, and a plurality of members to engage the screen wire mounted on the support located on two sides, at least, of the frame, and means to automatically move said members to exert a stretching strain on the wire in two directions.

1,395,614. PNEUMATIC TIRE. Robert Stock, Sandusky, Ohio. Filed May 23, 1919. Serial No. 299,274. 6 Claims. (Cl. 152—13.)



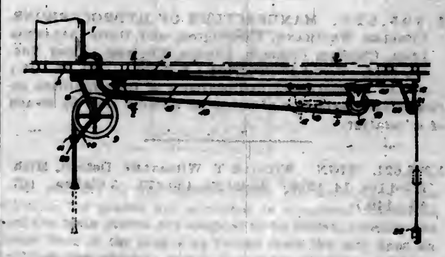
1. A transversely divided pneumatic tire and means engaging each end of the tire for sealing it and moving the ends longitudinally.

1,395,615. VEHICLE-WHEEL. Robert Stock, Sandusky, Ohio. Filed Jan. 15, 1920. Serial No. 351,593. 22 Claims. (Cl. 301—78.)



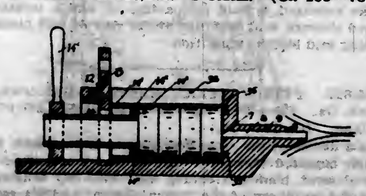
1. A metal vehicle wheel comprising a hub, a felly having open ventilating slots, and spokes connecting said hub and felly.

1,395,616. AIR-HOSE SUPPORT. Otto Strosberg, Creighton, Nebr. Filed Oct. 2, 1920. Serial No. 414,238. 4 Claims. (Cl. 299—77.)



1. In an air hose support a supported trackway, a carriage slidably mounted on the trackway, a fixed pulley, a pulley carried by the carriage, an air hose passing around the last mentioned pulley and having one end fixed and its opposite end depending from the fixed pulley to be manually pulled downwardly, and means for moving the carriage away from the fixed pulley to draw the hose to elevated position.

1,395,617. APPARATUS FOR TWISTING METAL BARS. William Stubbs, Sheffield, England. Filed June 3, 1920. Serial No. 386,181. 1 Claim. (Cl. 153—78.)



An apparatus for twisting metal bars into spiral form, comprising a base, forming a die holder, a tubular guide at one end of said holder, a tray provided with a passage

at the other end of the holder for receiving the fins to be formed, a plurality of flat cylindrical disks disposed within the holder, each of said disks having a helical slot disposed centrally thereof, said slots forming a continuous helix, means for locking the disks against rotation, and means for partially rotating said disks.

1,395,618. RADIATOR-TUBE AND METHOD OF PRODUCING SAME. George William Tuerff, Rome, N. Y. Filed Dec. 18, 1919. Serial No. 345,739. 10 Claims. (Cl. 113—112.)



1. A radiator member comprising a conductor tube and a spirally disposed fin thereon, said spiral fin having on its inner edge a series of alternately oppositely bent tabs forming a staggered soldering footing disposed alternately above and below the plane of the fin in contact with the surface of said tube for intimate connection therewith.

1,395,619. [WITHDRAWN.]

1,395,620. MANUFACTURE OF HYDROCARBONS. Charles Weizmann, Kensington, and David Alliston Legg, Clapham Common, London, England. Filed Nov. 10, 1917. Serial No. 201,464. 3 Claims. (Cl. 26—24.)

1. The production of hydrocarbons of the naphthene series by polymerization of butene in a liquid state by means of a catalyst.

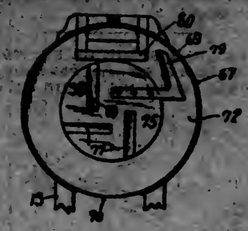
1,395,621. SIGN. William T. Wemaltey, Detroit, Mich. Filed Dec. 14, 1920. Serial No. 430,679. 5 Claims. (Cl. 40—140.)



1. A sign comprising a frame, permanently fixed partitions dividing the frame into block receiving compartments, said partitions having alined central openings, blocks arranged in said compartments, and a locking bar passed through said openings at the rear of said blocks for holding said blocks in position.

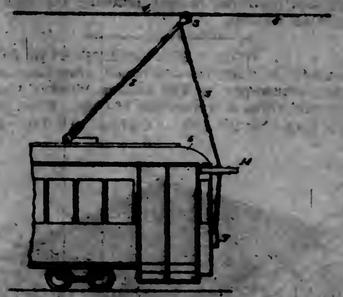
1,395,622. FEED-CUTTER. Emory O. Williams, Red Oak, Ga. Filed Dec. 10, 1918. Serial No. 266,076. 1 Claim. (Cl. 146—36.)

In a device of the class described, a main frame, a feed trough mounted thereon, a cutting device including a rotary element, blades extending approximately tangentially from the periphery of the rotary element and intersecting the path of travel of the material to be cut, at the point of discharge thereof from the trough, one flat side of the blades moving in approximate contact with the end and sides of the trough, and adjustable cutting plates along the bottom of the trough opening between the successive blades



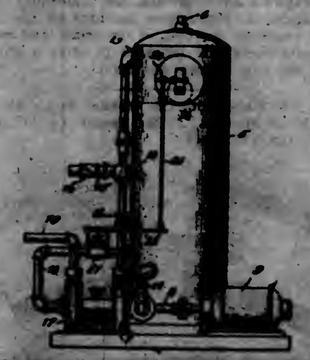
and the lower end portion of the trough acting as a holding device.

1,395,623. RETRIEVER-CORD GUIDE FOR TROLLEY-POLES. William H. Wells, North Vancouver, British Columbia, Canada, assignor of one-half to Ernest Jean Deacon, Vancouver, British Columbia, Canada. Filed Apr. 1, 1921. Serial No. 457,695. 4 Claims. (Cl. 191—38.)



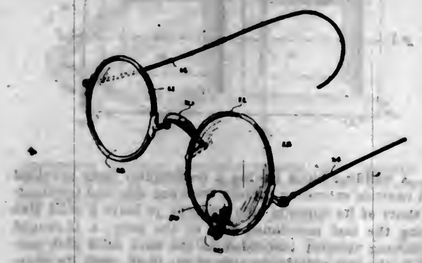
1. A guide for a trolley pole retrieving cord, said guide comprising a grooved sheave rotatably mounted adjacent the edge of the car roof, means preventing the cord laterally leaving the guide pulley, and means leading from each side of the car roof to the outer edges of the guide pulley facilitating reentrance of the cord into the groove of the sheave.

1,395,624. VACUUM AND BOILER FEED APPARATUS. Howard A. Young, Chicago, Ill. Filed Jan. 27, 1921. Serial No. 440,468. 4 Claims. (Cl. 103—79.)



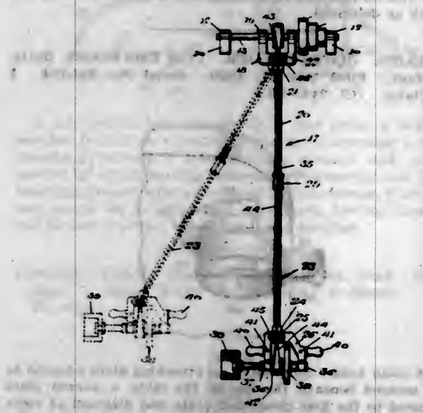
1. In an apparatus of the character described, the combination of a tank, means for delivering steam and water of condensation from a heating system to said tank, a pump connected with the tank, and means controlled by the water level in said tank for admitting water from the tank to said pump, whereby such surplus water is delivered under pressure to a boiler or the like.

1,395,625. ATTACHMENT FOR EYEGLASSES. Leo Jay Zimmerman, Ladysmith, Wis. Filed May 13, 1921. Serial No. 469,184. 7 Claims. (Cl. 88—41.)



1. An attachment of the character described, comprising a pair of members pivotally connected at their one ends, a lens supported by the free end of one of said members, and spring means associated with said members whereby they will be caused to press toward one another.

1,395,626. FLEXIBLE OPERATING MECHANISM. Percy L. Billingsley, Orlando, Fla. Filed Sept. 29, 1919. Serial No. 327,276. 7 Claims. (Cl. 74—21.)



7. An operating mechanism including a pair of members, a pivot connecting them, a shaft rotatable in one member, a pulley on the shaft, a belt passing around said pulley and having runs extending along the other member at opposite sides thereof, and means for guiding said runs of the belt to pass the opposite ends of said pivot in the axis thereof, to bend on a line substantially coinciding said axis.

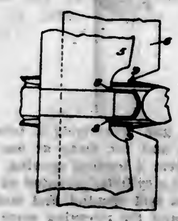
1,395,627. FASTENING DEVICE. John T. Binkley, Chicago, Ill. Filed Dec. 10, 1919. Serial No. 343,943. 6 Claims. (Cl. 292—98.)

1. The combination with a container comprising sections having walls adapted to close together, of a socket carried by one of said walls, a dowel carried by the other wall and provided with a catch-shoulder, a spring-projected catch working through the wall carrying said socket and



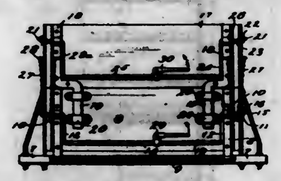
adapted to engage said shoulder, and a push-button movably connected with the wall carrying said socket and adapted to retract said catch.

1,395,628. MEANS FOR FOLDING THE PLANES OF AIRCRAFT. Harold Bolas, Clifton, Bristol, England, assignor to George Geach Parnall, Bristol, England. Filed Jan. 6, 1921. Serial No. 435,432. 1 Claim. (Cl. 244—12.)



In aircraft of the heavier than air multiplane type wherein the planes are arranged in staggered formation and the main planes are adapted to be folded, forming the hinge lines of the planes as viewed from the side upon an inclined line which is parallel or substantially parallel to an imaginary line joining the leading edges of the main planes, said hinge lines when viewed from the front being inclined to the vertical the bases of the hinge lines being farther apart than the upper ends thereof.

1,395,629. DEADLOCK FOR END DROP-GATES. Charles C. Brakefield, Allensville, Ky., assignor of one-half to Jesse B. Boyd, Allensville, Ky. Filed Apr. 12, 1920. Serial No. 373,269. 1 Claim. (Cl. 296—57.)



In a wagon body, a sectional end gate comprising a lower and an upper section, the lower section hinged at its lower end to the rear base sill of the body, said hinge including straps secured to the outer face of said lower section and provided with bearings for a latch member, said latch comprising a yoke shaped body portion disposed longitudinally of the gate section and arms, each arm

having a journal pin mounted in the aforesaid strap bearings and extending laterally outwardly therefrom, said pins provided with bent ends or lugs, eyes at the sides of the wagon body adapted to receive said lugs, the upper section of the gate provided with bearing straps for a corresponding latch mechanism, said straps of the upper section offset and extending downwardly and engaging keepers on the outer face of the lower section, and a chain secured at one end to the upper section, and its opposite end to the side of the wagon body, whereby the gate as a unit may be supported in horizontal position to form a shovel board.

1,395,630. NON-RECOIL GUN. CLELAND DAVIS, Englewood Cliffs, N. J. Filed Nov. 18, 1920. Serial No. 424,980. 15 Claims. (Cl. 89—40.)



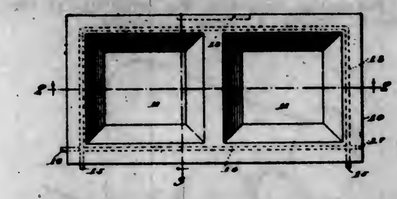
13. A non recoil gun comprising a tubular gun body open at both ends, and cut away at one side near its central region to form a loading opening, a door in the form of a segment of a cylinder mounted on said gun body, and adapted to close said opening, and means for locking said door in place and for releasing same when desired, substantially as described.

1,395,631. COFFERDAM. HENRY D. DEAN, Benton Harbor, Mich., assignor of one-half to Fred J. Petrovics, Chicago, Ill. Filed Apr. 29, 1919. Serial No. 293,431. 8 Claims. (Cl. 114—229.)



1. A boat patch comprising a body, a frame, and a gasket, said body comprising similar sheets of metal having similarly positioned apertures therethrough fixed to said frame, and said gasket being fixed to the outer edges of said frame.

1,395,632. BUILDING-BLOCK. VAN EMERY EASTERDAY, Urbana, Ill. Filed Jan. 17, 1920. Serial No. 352,007. 2 Claims. (Cl. 72—42.)



2. A building block having a rectangular body provided with cavities extending therein from one side and terminating short of its opposite side whereby to leave a solid slab closing the last mentioned side of the body, a U-shaped reinforcing member embedded in the said solid slab parallel to the last mentioned side of the body, with its angular portions disposed around and beyond the limits of the said cavities and terminating in parallel extremities projecting beyond one face of the block parallel with and adjacent to opposite ends of the block, the opposite face of the body of the block having a lengthwise recess located at an approximately central point between its ends, in the plane of the said reinforcing member, and a reinforcing rod extending longitudinally through the block body and crossing the extensions of the U-shaped member adjacent to the said extremities of the latter, said rod projecting at one end beyond one end of the block and having its opposite end terminating in a recess in the opposite end of the block as described.

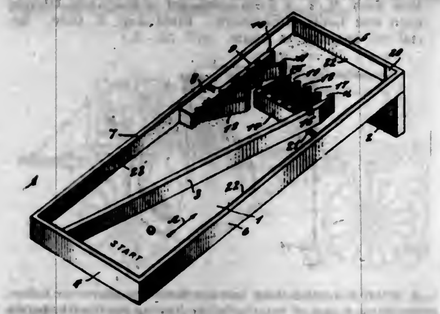
1,395,633. CLOTH-HOLDER. CURT ENGLEHARDT, Butte, Mont. Filed May 21, 1920. Serial No. 383,104. 1 Claim. (Cl. 248—20.)



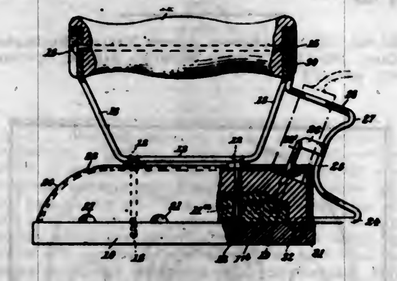
A cloth holder comprising an attaching plate adapted to be secured beneath the top of the table, a curved plate secured to the first mentioned plate and disposed at right angles thereto, the attaching plate extending beyond the curved plate to provide an attaching flange having perforations therein and inwardly curved spring fingers extending from the curved plate and having their free ends in contacting engagement to yieldingly receive the cloth.

1,395,634. GAME. WILLIAM FROTHINGHAM, New York, N. Y. Filed May 29, 1920. Serial No. 385,095. 10 Claims. (Cl. 46—62.)

1. A game device comprising a shallow box, a partition wall extending from adjacent one end wall convergingly toward one side wall and forming therewith a converging passage, said partition wall terminating a short distance from the opposite end wall, and a series of auxiliary partition walls arranged in the box between the partition wall and the other side wall to form a series of compartments opening generally toward said opposite end wall, into one of which a ball projected down the converging passage may roll.

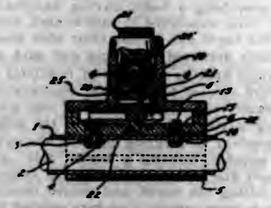


1,395,635. ELECTRIC IRON. THOMAS D. FINIZIO, Kitchawan, N. Y., assignor to Steatite Electric Products Corporation, a Corporation of New York. Filed Apr. 16, 1920. Serial No. 374,495. 13 Claims. (Cl. 219—25.)



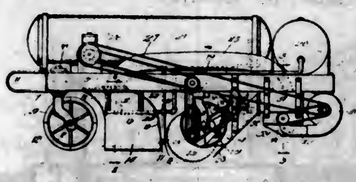
1. An electric iron comprising a base plate, a heating member formed as a unitary structure comprising a heat absorbing element, a heat emitting element, and means carried by said absorbing element for connecting said heat emitting element with a source of electric energy, a handle, and means for securing said base plate, heating element and handle together, substantially as specified.

1,395,636. LOCK. JESSE H. GILMS, Ogden, Utah. Filed Sept. 7, 1920. Serial No. 408,455. 9 Claims. (Cl. 70—90.)



1. In combination with the notched column and notched steering post of an automobile; of means for locking the post to the column, comprising spring influenced lugs normally out of the notches of the steering post, means for moving the lugs into said notches, means retaining the lugs so positioned, and means operable to permit the spring influenced lugs moving out of said notches and for releasing said retaining means.

1,395,637. WEED-KILLING IMPLEMENT. EUGENE C. GRAVES, Kankakee, Ill. Filed Nov. 22, 1919. Serial No. 339,895. 14 Claims. (Cl. 97—71.)



1. In a machine of the character described, the combination of a roller for crushing down the upstanding surface growth, a burner for consuming the surface growth, a series of cutters for dividing the soil into strips or ribbons, a cross cutter for breaking the strips or ribbons of soil into chunks, means for delivering the strips or ribbons to the cross cutter, a screen for segregating the roots from the soil, means for delivering the soil from the cross cutter to the screen, and means for discharging the roots, the whole being mounted for transportation across a field, substantially as described.

1,395,638. SPEED-INDICATING INSTRUMENT. LEO J. GRUBMAN, Erie, Pa., and GEORGE A. DUDEN, Brooklyn, N. Y. Filed May 14, 1919, Serial No. 297,013. Renewed Nov. 13, 1920. Serial No. 423,982. 15 Claims. (Cl. 116—57.)



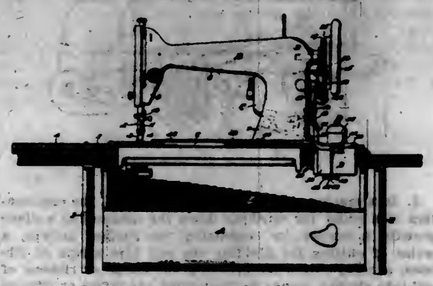
1. In a speed indicating instrument, the combination of a driving means; a speed responsive element responsive to changes of speeds of said driving means; an indicating device responsive to movements of said speed responsive element in one direction; and mechanism acting independently of said speed responsive element for returning said indicating device with a movement starting immediately upon a reduction of speed.

1,395,639. SHOE. MICHAEL G. GRUNDMANN, Faribault, Minn. Filed Jan. 26, 1921. Serial No. 440,008. 2 Claims. (Cl. 12—142.)



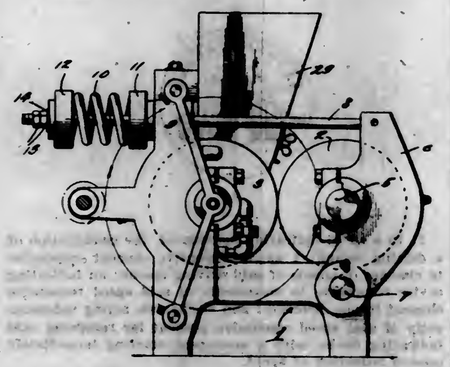
1. A method of making a turn shoe consisting in the use of inner and outer soles which are first secured together at a point remote from their margins, the portion of the inner sole beyond its point of securement to the outer sole being then turned upwardly and sewed to the shoe upper, following which the latter is turned inside out to expose the said outer sole and incase the inner sole.

1,395,640. MOTOR ATTACHMENT FOR SEWING-MACHINES. Martin Heinze, Elizabeth, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed July 18, 1919. Serial No. 311,849. 8 Claims. (Cl. 172—179.)



1. A motor attachment for sewing machines comprising, a bracket adapted for attachment to the frame of a sewing machine, a driving motor carried by said bracket with its shaft in position for operative connection to the sewing machine, and a motor-controller mounted on said bracket and electrically connected to said motor.

1,395,641. CHEMICAL APPARATUS. Ralph V. Heuser, Yonkers, N. Y. Filed Aug. 8, 1918. Serial No. 248,963. 4 Claims. (Cl. 100—47.)



1. In an apparatus of the class described, a pair of high pressure rolls, one of which is composed of disks having porous material between them and extending to the periphery of the roll, a chamber within the roll into which said porous material extends, and means connected with said chamber for drawing off the liquid released from the material treated by the rolls.

3. In an apparatus of the class described, a pair of pressure rolls operable to turn toward each other and equipped with means for exerting high pressure at the periphery thereof, one of said rolls being solid and the other composed of a multiplicity of solid disks with annular grooves formed on the opposed faces of said disks with apertures extending through the walls thereof to afford communication between the grooves of the various disks, porous elements arranged between said disks, and pipes connected with said grooves and adapted to be connected with suction means whereby the liquid released by the pressure of the rolls on the material treated is drawn into said grooves and conveyed to a suitable place of deposit.

1,395,642. TEA-CARTRIDGE. Benjamin Hirschhorn, New York, N. Y., assignor to National Tea Bag Co., New York, N. Y., a Firm composed of Benjamin Hirschhorn and Louis Hirschhorn. Filed Aug. 5, 1920. Serial No. 401,293. 1 Claim. (Cl. 53—3.)



A device for extracting essence from tea-leaves or coffee, comprising a bag of textile fabric having its mouth drawn into folds, a suspending string abutting with one of its ends against said folds, and a metal strip encircling and compressing said folds for closing the mouth of said bag and for attaching said string thereto, the ends of said strip being spaced apart and the gap between said ends being disposed at an oblique angle to a plane in which one of the flat faces of the encircling ring is located, thereby preventing said string from becoming disengaged from said bag.

1,395,643. GAME. George Albert Kelley, Burlington, Kans. Filed Dec. 3, 1919. Serial No. 342,052. 1 Claim. (Cl. 46—41.)

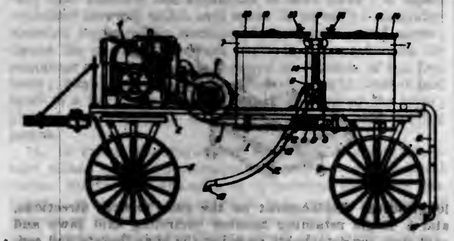


A game comprising a board having marginal flanges, a transparent cover supported by said flanges, arcuate strips secured to the board and having their ends spaced to provide oppositely arranged entrances and said strips form inner and outer fields, a plurality of relatively spaced circular members secured to the board centrally thereof and having entrance, and the entrances of one member being arranged oppositely to the entrance of the adjacent member, said members coöperating to form runways, and the innermost member forming a center field, game pieces on said board and adapted to be moved through the entrances by tilting the board, and curved members having spaced ends to form assorting pockets secured to the board within the inner field.

1,395,644. COTTON-HARVESTER. Gerard S. Kerr, Whittenburg, Tex. Filed Sept. 22, 1917. Serial No. 192,608. 10 Claims. (Cl. 56—42.)

2. In a collecting machine, the combination with a pair of tanks, an air impelling device and a collecting pipe,

of valve mechanisms for controlling the operative connection of said device and of said pipe to said tanks, and means for controlling said valve mechanisms.



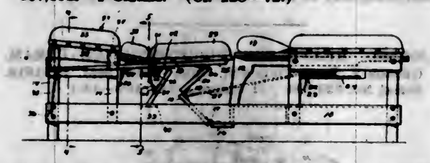
6. In a cotton harvester, the combination with a pair of tanks and means for actuating a current of air through said tanks, of means for selectively controlling the operative connection of said actuating means to the one or the other of said tanks.

1,395,645. DIRECTION-INDICATOR. Walter M. Lebdom, Oakland, Calif. Filed Oct. 14, 1920. Serial No. 416,840. 8 Claims. (Cl. 116—29.)



1. In a direction indicator of the class described, in combination, a cylinder having a division wall centrally thereof, a piston in each end of the cylinder, an arrow swingingly mounted upon a shaft adjacent the outer end of each piston, and gear and rack means connecting each shaft with its respective piston, whereby when said pistons are moved inwardly to a predetermined degree, said arrows will assume a vertical position, and when said pistons are moved outwardly to a predetermined degree the arrows will assume a horizontal position.

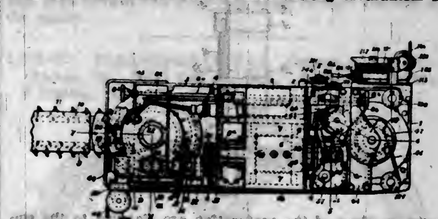
1,395,646. CHIROPRACTIC TABLE. John H. Laue, San Antonio, Tex. Filed May 7, 1921. Serial No. 467,552. 4 Claims. (Cl. 128—72.)



1. In a chiropractic table including a frame, a stationary leg support carried thereby, and an upright frame at the end of the frame opposite the leg support; an elongated supporting bar hinged intermediate its ends upon said upright frame, spring means opposing movement of said hinged bar, a head rest carried by the forward end of said bar, a chest support on the intermediate portion of said bar, and an abdomen support upon the rear end of said bar.

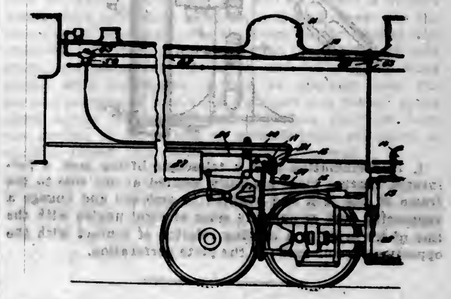
1,395,647. MINING-MACHINE. Nils D. Levin, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Sept. 28, 1916, Serial No. 122,705. Renewed Jan. 28, 1921. Serial No. 440,806. 9 Claims. (Cl. 262—30.)

7. In a mining machine, the combination of a main frame adapted to rest upon and slide over the floor of the mine, of a horizontally extending elongated cutting mechanism pivotally supported on said main frame, means to rotate said cutting mechanism about its pivot during cutting operation, means to lock said cutting mechanism in



any one of several angular positions relative to the main frame, and feeding and guiding mechanism comprising means to move the machine bodily relative to the coal face, and means independent of said moving means to balance the strains produced thereby.

1,395,648. STEAM-SUPPLY MEANS FOR CYLINDERS OF RAILWAY-LOCOMOTIVES. Samuel H. Lewis, Richmond, Va. Filed July 20, 1918. Serial No. 245,936. 11 Claims. (Cl. 121—187.)

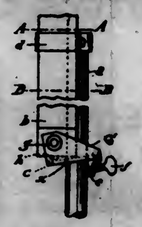


1. An apparatus for supplying steam to the cylinder or cylinders of a railway locomotive while moving, a fluid pressure motor having a slow leak therein, said motor being free from communication with the cylinder or cylinders of the locomotive so that its operation is not effected by the change of pressure in the cylinder or cylinders, means to supply steam to the cylinder or cylinders operated by the fluid pressure motor, a pressure chamber to supply fluid pressure to the motor, and means to control the inlet and outlet of fluid pressure to and from the chamber, said control means having positive connection with a movable part of the locomotive to operate in unison therewith, the motor being adapted to be set into action when the speed of the locomotive reaches a predetermined point and to become idle when the speed is below such predetermined point and when the locomotive is standing.

1,395,649. ADJUSTABLE SHORE. George W. Meyer and Charles A. Roos, Cincinnati, Ohio. Filed Nov. 28, 1919. Serial No. 341,047. 5 Claims. (Cl. 248—2.)

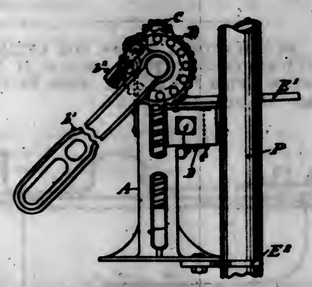
1. In a shoring device the combination of a relatively stationary element, a member telescopically adjustable thereon, and an integral metallic plate pivoted to one of said members and extending across horizontally and embracing the other member in a perforation of the plate cor-

responding with the contour of the embraced member and in a sliding fit such that upon canting said plate, the



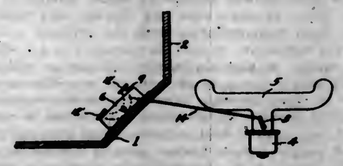
curbs or edges of the perforation are clamped to the embraced element at the contact side and the outer side simultaneously.

1,395,650. LIFTING-JACK. GEORGE W. MEYER and CHARLES A. ROOS, Cincinnati, Ohio. Filed Sept. 27, 1920. Serial No. 413,238. 3 Claims. (Cl. 254—97.)



1. In combination with a telescopic lifting jack, a perforated canting plate pivotally secured at one side to the frame of the jack and adapted to embrace and engage a supporting post at opposite sides at right angles with the line of its pivot in a canting relation of contact with the opposite edges or curbs of the plate perforation.

1,395,651. THROTTLE-PEDAL. DAVID MILLS, Seattle, Wash. Filed Sept. 27, 1920. Serial No. 413,186. 3 Claims. (Cl. 74—61.)



1. The combination with the actuating lever of a carbureter throttle valve, of a pivotally supported pedal having a notched surface, an actuating rod connecting the pedal with the said lever, and a yieldable member engaging the notched surface of the pedal to retain the latter at different positions of adjustment.

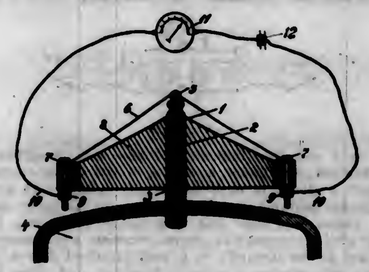
1,395,652. SCOURING DEVICE. ANDREW MOTTER, Buffalo, N. Y. Filed Feb. 28, 1921. Serial No. 447,289. 6 Claims. (Cl. 15—56.)

1. A device of the character described, comprising a handle having a stem, a pair of separable jaws removably mounted on said stem, the rear portions of said jaws embracing said stem while the front portions thereof are adapted to grasp a cleaning member between them, said stem and the rear portions of said jaws having complementary interlocking elements which hold the jaws against



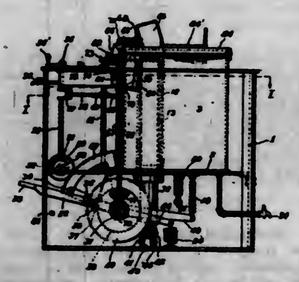
longitudinal displacement on the stem in both directions, and a single retaining member encircling said jaws and said stem for detachably securing the jaws thereto and contracting the same to grip said cleaning member.

1,395,653. PRESSURE-MEASURING INSTRUMENT. WALTHER NERNST, Berlin, Germany, assignor to The Firm Siemens & Halske Aktiengesellschaft, Berlin-Siemensstadt, Germany. Filed June 14, 1919. Serial No. 304,284. 4 Claims. (Cl. 175—183.)



1. A device of the kind described, comprising a wire formed of a material whose electric resistance increases in proportion to the tension applied thereto, means for applying tension to the wire including a pressure responsive member, and an electric measuring instrument and generating means in circuit with said wire, whereby the said instrument may be used to measure such pressure.

1,395,654. MEANS FOR DISPENSING ICE-CREAM. GEORGE V. POSS, Cleveland, Ohio. Filed Sept. 15, 1919. Serial No. 323,790. 11 Claims. (Cl. 107—14.)



10. In means for dispensing ice cream, the combination of a main frame; a foot lever pivoted therein; a spring secured to the floor of said frame and to the inner end of said

lever; a pawl secured to said lever; a ratchet mounted in said frame and adapted to be actuated by the pawl upon the forward movement of the lever; a telescoping screw adapted to be actuated by said ratchet; means adapted to vary and regulate the actuation of said screw; a cream container through which said screw is movable; manually-operable transmission-members for retracting said screw; means for cutting the cream portions expressed from the container by the successive forward movements of the foot lever; means limiting the engagement of said ratchet and pawl to a part only of the return movement of the lever; and manually-operable means for actuating said cutting means.

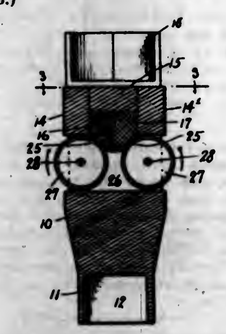
11. In means for dispensing ice cream, a cream reservoir, means forming a refrigerating chamber, a cylindrical casing within said chamber, a cylindrical vertically disposed post centrally mounted in said casing, a series of cylindrical cream containers surrounding said post, vertically disposed means for forcing cream from said container, and means for varying and regulating the amount of cream forced from the containers.

1,395,655. MEANS FOR FEEDING AND CUTTING ICE-CREAM. GEORGE V. POSS, Cleveland, Ohio. Filed Sept. 15, 1919. Serial No. 323,791. 8 Claims. (Cl. 107—24.)



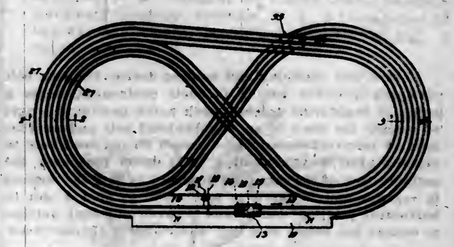
1. In means for feeding and cutting ice cream, the combination of a main support; a container for retaining a block of cream; means carried by the container for forming the block into a plurality of separate layers; means adapted to cut said block longitudinally and transversely simultaneously; means for forcing said block from said retainer and into juxtaposition to said cutting means; and means for operating said cutting means by the rearward movement of said forcing means.

1,395,656. WRENCH. HENRY SCHLUTS, Pittsburgh, Pa., assignor of two-fifths to Jacob L. Knoedler, Option, Pa. Filed Apr. 20, 1920. Serial No. 375,327. 2 Claims. (Cl. 81—165.)



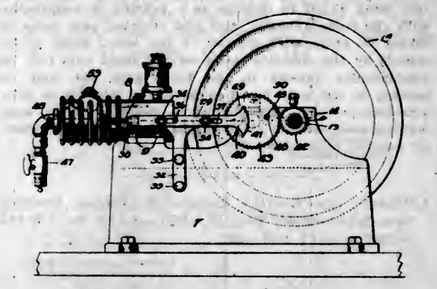
1. A socket wrench, comprising a stock, having an upper recessed portion, jaws having their complemental shanks slidably mounted within said recess, there being integral spacing portions connecting the jaws with the shanks, one of said spacing portions being provided with a shoulder, coöperating with a correspondingly recessed portion on the end of the other or complemental shank to limit movement of the jaws toward each other, said jaws having recesses which coöperate to provide a polygonal nut engaging socket, and means for operating said jaws toward and from each other to vary the size of the socket.

1,395,657. PLEASURE-RAILWAY. GEORGE A. SCHMIDT, Chicago, Ill. Filed Oct. 14, 1920. Serial No. 416,833. 3 Claims. (Cl. 104—63.)



1. In a pleasure railway the combination with a track structure having a covering therefor adapted to exclude light over a major portion of the track structure, a loading and unloading platform adapted to support a part of a track structure communicating at both ends with the aforesaid track structure so that a car passing over the entire track structure will be within a closure where light is at least partially excluded except for the time that it is passing over the track on the loading and unloading platform, a car adapted to be operated on said track, and means for controlling said car whereby when loaded with passengers it may be operated over the covered portions of said track structure and flashed under speed across the loading and unloading platform from one portion of the closed or covered track structure to another closed and darkened portion thereof.

1,395,658. GAS-ENGINE. JOHN SCHOLTZ, Philadelphia, Pa., assignor of one-third to Stanley A. Brosa, Oreland, Pa., and one-third to Gustave W. Sunday, Philadelphia, Pa. Filed Aug. 1, 1919. Serial No. 314,619. 1 Claim. (Cl. 123—90.)



An engine of the character described including an exhaust valve; a bar having slots and a hooked end; a stem on said valve having a screw threaded portion extending through said hooked end of the bar; nuts on said screw threaded end engaging opposite portions of the hooked end of the bar; a support having means extending through slots in said bar; means operatively connected to a movable part of the engine and operative to engage said bar and move the latter to open said valve; and means for moving said valve into a closed position as the bar is released by said operatively connected means; substantially as described.

1,395,650. BOLT-CLAMP FOR VISE-JAWS. CHARLES ALONZO, Chicago, Ill. Filed Apr. 27, 1921. Serial No. 464,327. 2 Claims. (Cl. 81—28.)



1. In a bolt clamping and holding device, two like bolt clamping members having in their confronting edges a series of registering notches, each notch providing a part to receive the head of an angular-head bolt and another part to receive the head of a round button-head bolt to prevent axial movement of a bolt; dowel pins near the bottom edges of the clamping members to hold the notches in register and to serve as bolt rests, to hold a bolt in horizontal position and means between adjacent notches to engage the shank of a bolt and clamp it therebetween.

1,395,660. CHILD'S VEHICLE. EMIL ALLEN, Bethel, Conn. Filed Apr. 4, 1919. Serial No. 287,647. 1 Claim. (Cl. 280—105.)



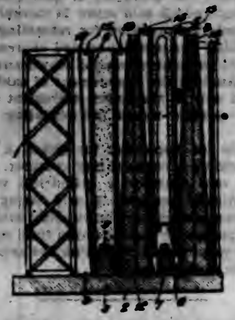
The combination in a four-wheeled child's vehicle, of a body board, a bearing in the body board, a front axle bed, a semi-circular cut-out in the axle bed, a front axle rod carried by the axle-bed, a steering rod, a steering wheel on the steering rod, a spherical head on the steering rod, an X-shaped slot in the spherical head, said slot being gaged to operate as a bearing in conjunction with the front axle rod, and said steering post being retained in place with respect to the other parts of the vehicle by the spherical head on the front axle rod, the semi-circular cut-out in the front axle bed, and the bearing in the body board, without the medium of other attachments, and operated as a steering device when manipulated through the medium of the steering wheel, all substantially as set forth.

1,395,661. PACKAGE. EDWARD H. ANGIER, Framingham, Mass. Filed Dec. 18, 1916. Serial No. 137,681. 3 Claims. (Cl. 206—46.)



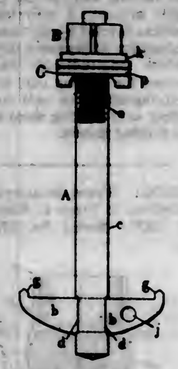
1. A wrapper for tires or the like of a length to encompass the tire and of a width corresponding substantially to the cross-sectional perimeter of the tire, said wrapper having independent transverse reinforcing filaments and independent longitudinal reinforcing filaments along a central zone thereof.

1,395,662. METHOD AND APPARATUS FOR CASTING CEMENTITIOUS BLOCKS. GEORGE W. ATTERBURY, New York, N. Y. Filed June 3, 1920. Serial No. 386,175. 7 Claims. (Cl. 25—121.)



1. The method of making large blocks of cementitious material in molds having vertical sides of so light construction as to require support against the hydrostatic pressure when first filled comprising supporting the sides of the mold only until the cast material sets sufficiently to first relieve the hydrostatic pressure, then withdrawing the mold and casting from the support and retaining the casting in the mold for further hardening and curing.

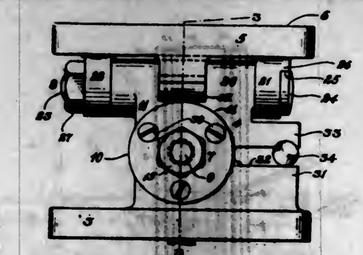
1,395,663. DEVICE FOR SECURING RAILWAY-RAILS TO THEIR SLEEPERS. EUGÈNE BELLAN and HENRI LEON LAINÉ, Paris, France. Filed Apr. 12, 1919. Serial No. 289,751. 3 Claims. (Cl. 238—277.)



1. A device for securing rails to their sleepers comprising an anchor bolt, formed with a mortise at its lower end, a claw encircling the stem of the bolt for engaging the foot of the rail, a nut screwed on the stem and engaging the claw, means for preventing loosening of the nut, anchor arms fitted in said mortise, means for centering the said arms in the mortise, and hook members on the said claw and lug members on the anchor arms for engaging and penetrating the sleeper and preventing splitting.

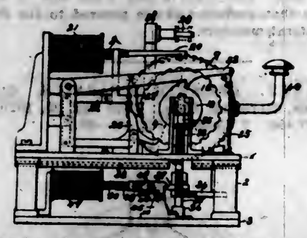
1,395,664. WORK-SUPPORT. EMIL BENSON, West Hartford, Conn., assignor to The Carling Tool & Machine Company, Hartford, Conn., a Corporation of Connecticut. Filed May 27, 1920. Serial No. 384,787. 4 Claims. (Cl. 51—239.)

1. A work support including in combination, a base member, a work receiving member, an intermediate member, pivotal connections respectively between the base member and intermediate member and the intermediate member and the work receiving member, and means in-



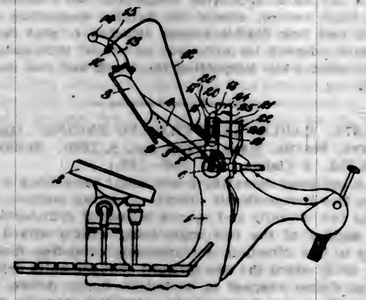
cluding a cylindrical surface for gaging the amount of angular adjustment between the pivotally associated members.

1,395,665. TIME-RECORDING APPARATUS. WALTER BOLLIER and IRMA DIEMAND, Zurich, Switzerland. Filed Apr. 29, 1915. Serial No. 24,838. 9 Claims. (Cl. 234—48.)



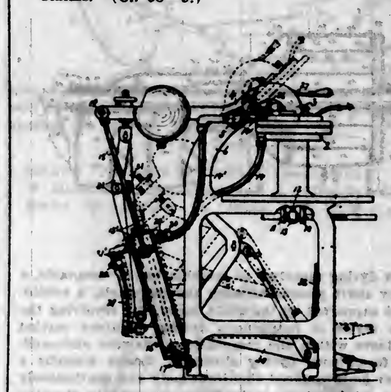
1. A workman's time recorder in which is embodied means for marking simultaneously two cards inserted below marking wheels, a shaft upon which the marking wheels are directly attached, electrically actuated means included in a circuit which is intermittently opened and closed, a platen for pressing the cards toward the printing wheels and electric actuated means independent of the hereinbefore mentioned circuit for controlling the platen which is controlled to operate effectually only when two cards are in position beneath the marking wheels.

1,395,666. SAFETY ATTACHMENT FOR PRESSING-MACHINES. CHARLES L. BEALBY and SYDNEY PRESTWICH, Cincinnati, Ohio, assignors to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 23, 1916. Serial No. 133,033. 2 Claims. (Cl. 74—105.)



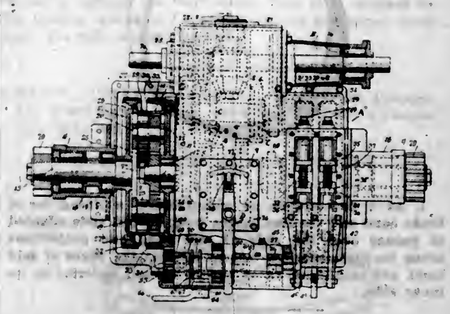
1. A pressing machine, comprising a stationary pressing member, a coöperating movable pressing member mounted to swing about an axis, a guard mounted to swing about a different axis, an actuating member carried by said movable pressing member, an operating part operatively connected to said guard, said actuating member engaging said operating part during closing movement of the press and passing said operating part at the closing point to release the guard, and means for returning the guard to normal position.

1,395,667. GARMENT-PRESS. HERSCHEL H. CHASE, Syracuse, N. Y., assignor to United States Hoffman Machinery Company, Syracuse, N. Y., a Corporation of Delaware. Filed May 11, 1920. Serial No. 380,683. 3 Claims. (Cl. 68—9.)



1. In a garment pressing machine the combination with coacting pressing elements movable one in relation to the other, means for applying steam to the garment between said elements, and means for withdrawing the steam only when the pressing elements are open, said last named means comprising a suction pump actuated by the movable pressing element when moved away from the other pressing element.

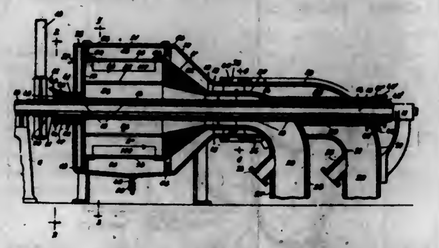
1,395,668. TRANSMISSION AND STEERING MECHANISM FOR FARM-TRACTORS. DANIEL C. DRILL, Greenville, Ohio. Filed Sept. 22, 1919. Serial No. 325,493. 11 Claims. (Cl. 180—17.)



1. In transmission gearing, the combination, of an engine drive shaft, a plurality of shafts having driving relations with opposite drive wheels, a plurality of units of planetary transmission gearing interposed between the drive shaft and said opposite shafts, and mechanism for

controlling each of said planetary gear units independently of the other, whereby power from said engine may be transmitted to cause said wheels to rotate in inverse directions relative to each other, and means connecting the opposite units of planetary transmission gearing to cause the units to rotate in unison.

1,395,669. DYEING-MACHINE. HOWARD M. DUDLEY, Philadelphia, Pa. Filed Dec. 1, 1919. Serial No. 341,678. 8 Claims. (Cl. 8—19.)



1. In a dyeing machine, in combination, a receptacle, a stationary shaft passing through the receptacle, a revoluble sleeve supported by the shaft, means for revolving the sleeve, a series of foraminous dyeing chambers carried by the sleeve within the receptacle, a chamber surrounding the foraminous dyeing chambers, means whereby a liquid may be introduced simultaneously and continuously into all portions of one end of the surrounding chamber and means whereby a liquid may be passed through the dyeing chambers and then through the receptacle.

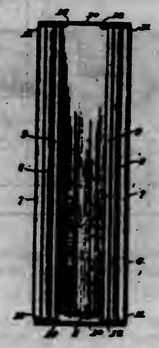
1,395,670. DETACHABLE LINING FOR BRAKE-BANDS. JOSEPH W. EDELL, Cleveland, Ohio, assignor of one-half to Michael J. Maruna, Cleveland, Ohio. Filed Sept. 2, 1919. Serial No. 321,021. 3 Claims. (Cl. 188—249.)



1. As a new article of manufacture, a lining for a brake band and the like having hook shaped ends adapted to engage over the ends of said band and projections along its edges adapted to bear against the edges of said band, and said lining faced with frictional material on its inner side.

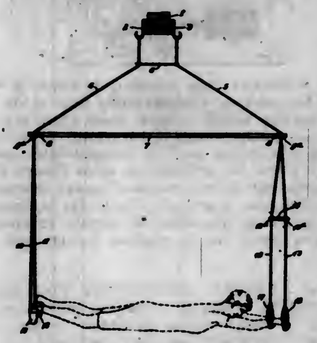
1,395,671. DOOR STRUCTURE. AXEL F. ERICKSON and DANIEL W. SHIRK, Aurora, Ill., assignors to All-Steel-Equip Company, Aurora, Ill., a Corporation of Illinois. Filed Aug. 9, 1920. Serial No. 402,386. 7 Claims. (Cl. 189—46.)

3. A door consisting of a plate having folded back leaves along its longitudinal edges, lateral members on said leaves, and lateral members on the adjacent portions of



the plate that contact and are secured to the first mentioned lateral members.

1,395,672. DRY-SWIM APPARATUS. GUSTAV A. FISCHER, Cleveland, Ohio. Filed Apr. 29, 1920. Serial No. 377,486. 7 Claims. (Cl. 46—69.)

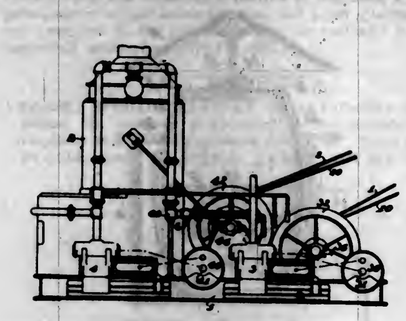


1. A dry swim apparatus comprising the combination of a rigid carrier, means for flexibly suspending said carrier and four flexible swings attached to said carrier and each adapted for universal movement independently of any other while supporting the hands and feet respectively.

1,395,673. CABLEWAY-OPERATING ENGINE. GERALD FRINK, Seattle, Wash. Filed Apr. 8, 1920. Serial No. 372,272. 6 Claims. (Cl. 254—185.)

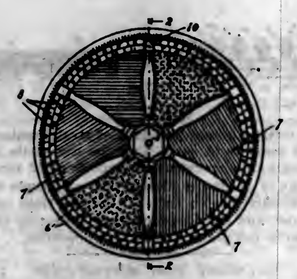
1. A cableway operating power plant comprising a base frame, two independently operable hoisting engines, each having two laterally and equally separated cylinder units, said engines of the two units being axially alined and facing in like direction, a transversely extending forward drive shaft which the two forward cylinder units drive, a pair of drums adapted to be independently driven from said shaft, a rear transversely extending shaft to which the two rearmost cylinder units are operatively connected, a pair of drums independently driven from the last named

shaft, the first named drums being located rearwardly of the forward driving shaft and the last named drums being located forwardly of the rearmost driving shaft, a



trackway cable having its opposite ends connected to the two drums of one shaft and a traversing cable having its opposite ends connected to the two drums of the other shaft.

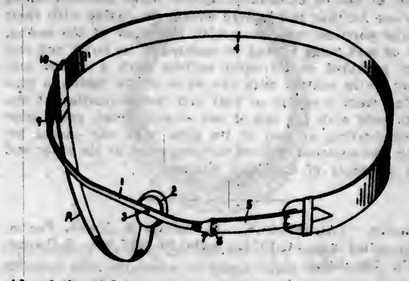
1,395,674. AMUSEMENT DEVICE. EVA N. HENNEGAN, Cincinnati, Ohio. Filed May 29, 1920. Serial No. 385,319. 3 Claims. (Cl. 46—41.)



1. An amusement device comprising a base member, indicia arranged in a circle on said base member, each indicium being associated with one of a plurality of colors, a rotatable member mounted on said base member, said rotatable member being provided on its face with divisions each of which is colored to correspond with one of the colors of said indicia, spaces in each of said divisions, each of the spaces being provided with an indicium corresponding to certain indicia on the base member and being also provided with printed matter, and a pointer on the rotatable member for indicating an indicium on the base member.

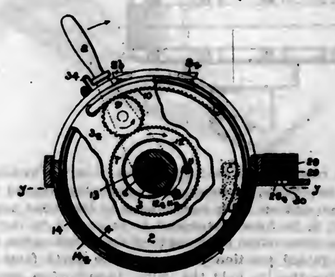
1,395,675. TRUSS. HERMAN H. HITTENBERGH, Oakland, Calif. Filed June 4, 1918. Serial No. 238,115. 2 Claims. (Cl. 128—105.)

1. A reversible truss comprising a single rigid bar having a substantially straight portion of its length to lie across the abdomen and having one end curved to partially extend around either side of the body and conform to the contour thereof to cooperate therewith for positioning a truss pad in either of the reversible positions of said truss, a truss pad on the inside of the straight portion of the bar and located thereon relatively to its curved end to lie opposite the rupturable tissues on one



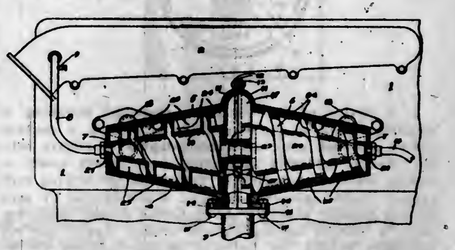
side of the abdomen, and a belt connected to the ends of said bar to extend around the body for drawing the pad against the rupture.

1,395,676. AUTOMATIC VENDING-MACHINE. JAMES W. HUGHES, Haddon Heights, N. J. Filed Oct. 23, 1917. Serial No. 198,028. 22 Claims. (Cl. 232—1.)



1. In a vending machine of the character stated, the combination of a table for holding the article to be vended, and two curved vertically arranged covers rotatable about the same axis one of said covers inclosing the rear portion of the table and the other the front portion, locking means for normally locking the front cover in closed position, manually operable means for opening and closing the rear cover for inserting the articles to be vended, and power means energized by the manually operable means for automatically opening the front cover when it is released by the locking means and also for closing the front cover when the rear cover is opened.

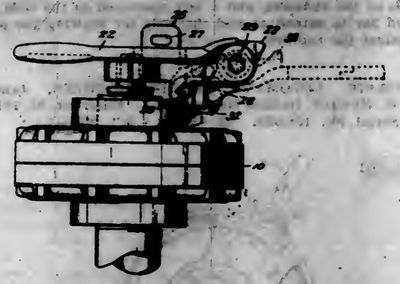
1,395,677. INTAKE-MANIFOLD. BARRY IVOR, Chicago, Ill. Filed May 21, 1920. Serial No. 383,262. 4 Claims. (Cl. 257—241.)



1. A device of the character described, consisting of a casing tapered from its middle portion toward each of its

ends and having communication near each of its ends with an explosion chamber of an internal combustion engine, a pair of hollow externally tapered plugs communicating with one another and located within the casing with their tapered portions coinciding with the taper of the casing, each of said plugs having an opening in its outer end and each provided on its outer surface with a spaced convolute rib in contact with the walls of the casing, a pipe leading from a supply of heat and communicating at one of its ends with the end of one of said plugs, and a pipe communicating at one of its ends with the casing between the adjacent ends of the plugs and at its other end with a supply of explosive mixture.

1,395,678. VALVE-LOCK. LAWRENCE R. JONES, Peoria, Ill. Filed Aug. 14, 1919. Serial No. 317,494. 3 Claims. (Cl. 70—125.)



1. A valve lock providing a valve stem; a handle providing two parts, an inner part removably secured to the said stem and an outer part hinged to the inner part and adapted to be folded over and to be locked to the inner part; an obstruction in the path of the handle when moved toward folded position to prevent the parts from being locked together to hold the valve, except when the valve is in a pre-selected position, and means for securing the inner part of the handle to the stem rendered inaccessible by the overlying folding part.

1,395,679. IGNITION-SWITCH. WILLIAM KAESLING, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 4, 1918. Serial No. 226,622. 10 Claims. (Cl. 200—44.)



1. A device of the character described including a mounting plate, a pin secured to said plate, a contact maker provided with an orifice adapted to receive said pin, thereby rotatably supporting said contact maker, a locking member supported by said plate for locking said contact maker against movement, a pin carried by said locking member, a second pin supported by said mounting plate, a member secured to said contact maker, and an integrally formed ear for said member adapted to cooperate with said pins to limit the movement of said contact maker.

1,395,680. ANIMAL-TRAP. JAMES HAGERMAN, Lancaster, Pa. Filed May 20, 1921. Serial No. 471,115. 18 Claims. (Cl. 43—64.)



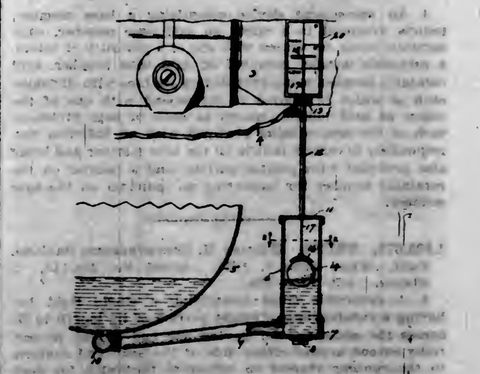
1. An animal trap comprising a barrel, a hood supported above said barrel, a cover element adapted to rest on said barrel or be raised above the latter, a spider element extending across the top of the barrel, a post on the spider element extending through said cover element and formed with a notch, and a latch arm hinged on said barrel and adapted to engage in said notch to hold the cover in raised position.

1,395,681. METHOD OF AND MACHINE FOR STRAIGHTENING BARS. GEORGE A. KEENAN, Pittsburgh, Pa. Filed July 2, 1920. Serial No. 393,521. 4 Claims. (Cl. 153—54.)



1. The method herein described of straightening a metal bar which consists in submitting the bar while otherwise free of longitudinal tension to a succession of three double undulations of gradually diminishing amplitude and causing such undulations to traverse the bar from end to end in one plane, and then repeating the operation in a plane transverse to the plane of the first operation.

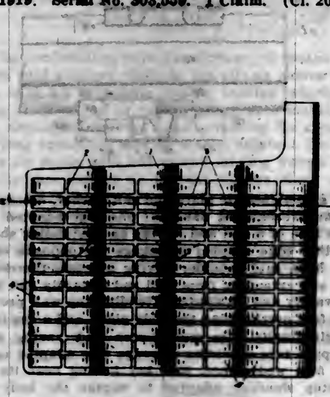
1,395,682. OIL-GAGE FOR MOTOR-CARS. LEWIS E. KITCHEN, Indianapolis, Ind. Filed Apr. 20, 1921. Serial No. 462,525. 3 Claims. (Cl. 73—52.)



1. In an oil cage, a vertical tube having communication at its lower end with a receptacle the contents of

which is to be measured, a spherical float in the tube and of considerably less diameter than the bore of the tube, said float being free and unattached, a concave cap resting upon and receiving a portion of the float, a dial permanently located above the tube, and a rod attached at its lower end to the cap and having an indicator at its upper end cooperating with the dial.

1,395,683. STORAGE BATTERY. SWAN J. LEVEEN, Rock Island, Ill., assignor of one-third to Carl Shields and one-third to J. T. Marren, Rock Island, Ill. Filed June 12, 1919. Serial No. 303,559. 1 Claim. (Cl. 204—29.)



A device of the class described, comprising a frame provided with a plurality of vertical bars and a plurality of horizontal bars intersecting the same, forming vertical sections, alternate sections thereof being disposed in zigzag relation to the adjacent sections thereof.

1,395,684. MANUFACTURE OF PERBORATES. OTTO LIEBKNECHT, Frankfort-on-the-Main, Germany, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y., a Corporation of New York. Filed Jan. 27, 1917. Serial No. 145,017. 4 Claims. (Cl. 204—9.)

1. In electrolytic processes with a normally soluble base metal cathode, the step which consists in adding to the electrolyte a protecting substance to stabilise the base metal cathode and prevent solution and deposition thereof in the end product.

1,395,685. MANUFACTURE OF ALKALI PERBORATES. OTTO LIEBKNECHT, Frankfort-on-the-Main, Germany, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y., a Corporation of New York. Filed Jan. 27, 1917. Serial No. 145,018. 5 Claims. (Cl. 204—9.)

1. In the process of producing alkali perborates by electrolysing a solution of alkali carbonate and alkali borate, maintaining the alkali bicarbonate, formed during the process, within the limits of the dissolving power of the electrolyte.

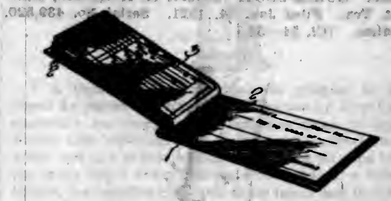
1,395,686. PNEUMATIC TIRE. GEORGE W. LINDLEY, Philadelphia, Pa. Filed Sept. 16, 1916. Serial No. 284,292. 2 Claims. (Cl. 152—18.)

1. A cord tire having the cord layers made up of a cloth fabric comprised of parallel weft or shuttle threads or cords and of parallel running lines of knitted threads through parallel rows of loops of which the weft threads or cords pass, said cloth fabric being cut on the bias and



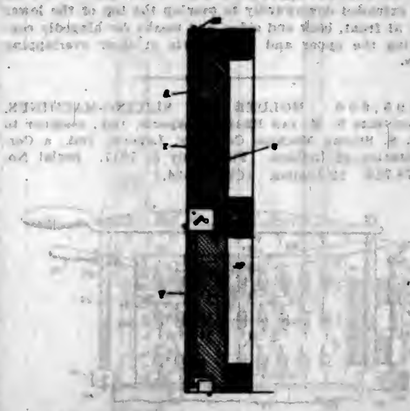
incorporated in the tire so that the lines of cords of different bias cut strips of fabric cross each other.

1,395,687. ENVELOP CHECK-BOOK STUB. ELMER S. LINDMARK, Brooklyn, N. Y. Filed Jan. 24, 1921. Serial No. 439,635. 2 Claims. (Cl. 283—63.)



1. A check-book having groups of blank checks and containers between the groups, each container being provided upon one side with delineated spaces for entering a record of the checks of its group when used, the containers providing filing receptacles for the checks of their respective groups when canceled.

1,395,688. DOOR-LATCH. ALEXANDER MCCULLOCH, Govan, Saskatchewan, Canada. Filed Aug. 9, 1920. Serial No. 402,110. 1 Claim. (Cl. 292—37.)



In combination with a door, a vertical opening formed in said door, an upper and lower arm positioned in said opening, a key in the upper end of said opening, said key having its inner end attached to the upper end of said upper arm, a means for tensioning the other end of said

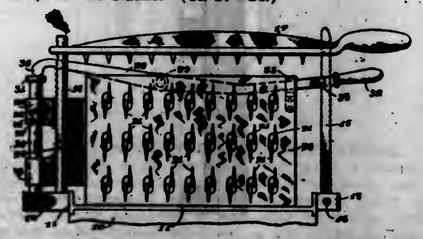
key outwardly from said door, a key positioned in the lower end of said opening, a means for tensioning one end of said last mentioned key outwardly from said door, a means connected to the end of said lower arm for drawing said key against the tensioned means a casing mortised into said door, oppositely positioned openings in top and bottom of said casing, a connecting bar mounted in said openings, said bar having its upper end connected to the lower end of said upper arm, said connecting bar having its lower end connected to the upper end of said lower arm, lugs extended inwardly from said connecting bar, a key reciprocatively mounted in said casing to operate in the opposite direction to said connecting bar, a tension for positioning one end of last said key to extend out past said casing, a lug formed on the upper side of last said key, a cylindrical operating member journaled in said casing, lugs radially positioned on said operating member, one of said lugs being positioned between the first mentioned said lugs and the other said lug being positioned in front of the lug on the last mentioned key and a handle suitably mounted in said operating member so that on the turning of the same the said keys will be pulled flush with the outer facing of said door.

1,395,689. HORSE-BOOT. JOSEPH H. MCKENZIE, Beaumont, Tex. Filed Jan. 24, 1921. Serial No. 439,520. 3 Claims. (Cl. 54—58.)



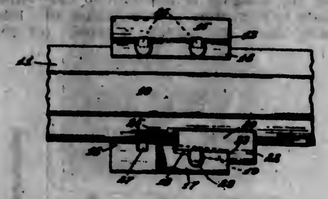
2. A horse-boot comprising a lower part to fit over the upper part of the hoof and extended upward to cover the pastern joint, an upper part to cover and protect the leg and extended downwardly to overlap the top of the lower part at front, back and sides, and means for hingedly connecting the upper and lower parts at their overlapping sides.

1,395,690. HOLDER FOR SLICING-MACHINES. CORNELIS F. M. VAN BERKEL, Laporte, Ind., assignor to U. S. Slicing Machine Company, Laporte, Ind., a Corporation of Indiana. Filed July 5, 1917. Serial No. 178,736. 12 Claims. (Cl. 17—24.)



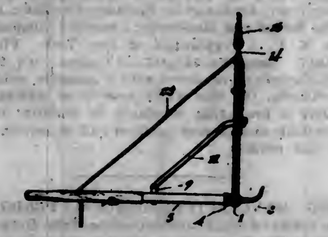
1. In a slicing machine, a support for material to be sliced, a plurality of holders independently carried by said support for securing material on said support in position to be sliced, one of said holders having its material-engaging face movable into an operative position parallel with the cutting plane of said slicing machine, and means for retaining each of said holders in inoperative position on said support during operation of the other holder.

1,395,691. COMBINED TIE-PLATE AND RAIL-ANCHOR. WILLIAM P. WARD, Alderson, W. Va. Filed May 13, 1921. Serial No. 469,269. 4 Claims. (Cl. 238—304.)



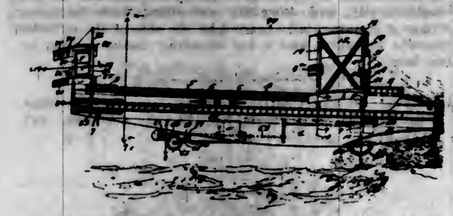
1. In a combined tie plate and rail anchor, a body plate having an overhanging flange at one edge adapted to engage the base of a rail and having an upstanding shoulder at its other edge adapted to engage the opposite edge of the rail base, said shoulder having a recess therein near one end and extending from said end inwardly and having a downwardly and forwardly extending top wall providing a wedge face overhanging the body plate, and a key insertible longitudinally into said recess and having an inclined upper face providing a wedge face adapted to slide on said first wedge face, said key having near its outer end a stop shoulder adapted to engage the body plate shoulder thereof to limit the insertion of the key, said key also having a straight inner side with an undercut recess therein adapted to receive the adjacent longitudinal edge portion of the rail base, and said plate and key having complemental spike receiving recesses adapted to aline when the key is in place for locking the key in the plate.

1,395,692. BALE-FORK. HERBERT AUGUSTUS WATERMAN, Liberal, Mo. Filed Sept. 2, 1920. Serial No. 407,694. 10 Claims. (Cl. 294—124.)



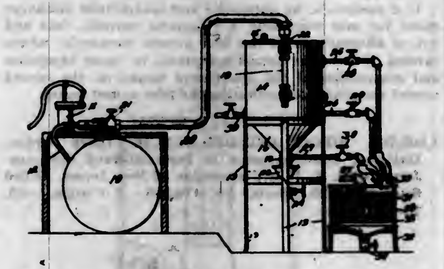
1. A bale fork comprising a bar having spikes for impaling the bales, a handle extending radially from the bar in the opposite direction to the spikes, a hanger for suspending and transporting the bar, hinged to the bar at the center thereof, releasable means for holding the bar with the handle and the spikes at right angles to the hanger, and trip mechanism for releasing said means, said holding means comprising a link pivoted to the handle and extending through the hanger, said hanger having a stop pin and the link, a notch for engagement by the pin, and a plate mounted to slide on the hanger and having an opening through which the link extends, said plate being normally spring pressed downward, and a flexible member connected with the plate for moving the same upwardly to release the link.

1,395,693. AIRPLANE. JOSEPH G. YONKERS, Brooklyn, N. Y. Filed Jan. 19, 1920. Serial No. 352,575. 3 Claims. (Cl. 244—2.)



1. In combination with an airplane, of means for propelling said airplane while in the air, an engine for operating said air propelling means, landing wheels located at the forward end of the air plane, said landing wheels being resiliently mounted so as to take up the shock during a landing operation, landing wheels adjacent the rear end of the air plane, said last named landing wheels being resiliently mounted so as to take up the shock during a landing operation, means whereby power from the engine may be utilized for rotating the forward landing wheels so as to propel the airplane forwardly while on the ground, and skids located adjacent the forward and rear landing wheels whereby the initial shock of landing will be taken up.

1,395,694. APPARATUS FOR PURIFYING GASOLENE. WILLIAM ALLINSON, Des Moines, Iowa. Filed Oct. 9, 1920. Serial No. 415,747. 17 Claims. (Cl. 210—44.)



1. An apparatus for purifying gasolene or the like, comprising a tank, a cone-shaped member below said tank, a neck on said tank and partially extended into said cone-shaped member, a tube communicating with said cone-shaped member, valve controlled outlets in said tank spaced one above the other, a second tank, each of said valve controlled outlets communicating with said second tank and a filtering device in said second tank.

1,395,695. AEROPLANE PROPULSION MEANS. MERRITT H. ANDERSON, Antioch, Calif. Filed June 15, 1920. Serial No. 389,507. 1 Claim. (Cl. 244—25.)



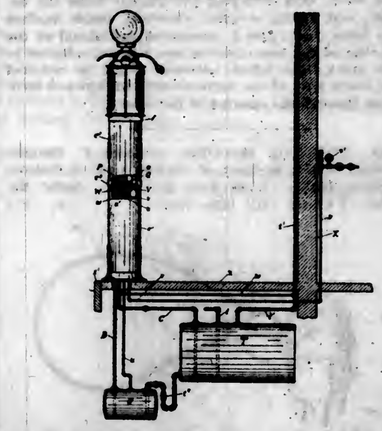
In an aeroplane driving means a low speed engine, said engine having a shaft extending therethrough, worm gears mounted on the opposite ends of said shaft, gear casings extending from said engine in opposite directions, a series of parallel shafts mounted within said casings, a propeller mounted upon the end of one of said shafts of each casing and speed increasing gears mounted upon said shafts within said casings, said speed increase being in the direction from the engine toward said propellers.

1,395,696. SELF-MEASURING LIQUID-DISPENSING APPARATUS. LINNAEUS E. BAKER, Fort Wayne, Ind., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Oct. 27, 1919. Serial No. 333,596. 2 Claims. (Cl. 221—100.)



1. A liquid dispensing apparatus adapted to dispense liquid by gravity, having in combination an elevated liquid container, an overflow pipe terminating at its upper end within said container at a predetermined level and at its lower end in a source of liquid supply, a fill pipe terminating at its upper end within said container at a level above that of the overflow pipe and at its lower end in the source of liquid supply, a discharge pipe terminating at its upper end within the container and at its lower end in an exteriorly discharging outlet fixed to and movable with said discharge pipe, said discharge pipe being manually adjustable as to height.

1,395,697. LOCKING CONTROL FOR POWER-OPERATED MEASURING AND DISPENSING APPARATUS. LINNAEUS E. BAKER, Fort Wayne, Ind., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Feb. 9, 1920. Serial No. 357,231. 5 Claims. (Cl. 221—99.)



1. In combination with a power operated measuring and dispensing apparatus having an elevated liquid container, means for setting the apparatus in filling position, means for filling the elevated liquid container, a keeper to pre-

vent the inserting of the apparatus while the electrical locking mechanism is being tilted, a guard to prevent the application of power except when the apparatus is in its tilt position and a unitary control to throw the hooper into lock position and turn on the power.

1,395,698. COMBINED ROCKING AND REVOLVING CHAIR. CHESTER E. BAUM and ROBERT A. PEACOCK, Delaware City, Del. Filed May 17, 1920. Serial No. 382,100. 6 Claims. (Cl. 155—99.)



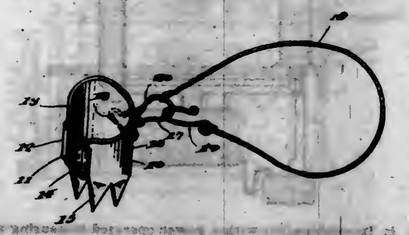
1. An exercising chair comprising a universal rocking base; a chair or seat mounted upon said base and having independent rotary movement thereon, and a hand rail supported by the base and surrounding said chair or seat.

1,395,699. HEADLIGHT FOR VEHICLES. ARCHIBALD BRAKE and RICHARD KENNETH BRAKE, Toronto, Ontario, Canada. Filed May 8, 1920. Serial No. 379,953. 2 Claims. (Cl. 240—41.)



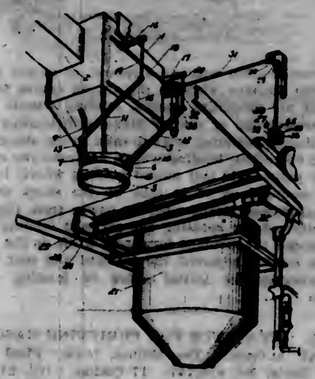
1. A headlight comprising a source of light; a reflector positioned with regard to the source of light to produce a converging beam of light; a tubular shield extending forward from the reflector well toward the principal focus of the beam and having an opening at its forward end of sufficient size to permit only of the passage of the focused rays and direct rays diverging but slightly from the optical axis, and having a light absorbing inside surface along its lower part; and a crescent-shaped shield at the forward edge of the lower part of the reflector adapted to eliminate stray light which normally would be reflected from the lower part of the reflector with an upward inclination out through the opening of the tube.

1,395,700. COW-TAIL HOLDER. ANDREW C. BRIXEN, Westmond, Idaho, assignor of one-half to P. A. Nelson, Sandpoint, Idaho. Filed June 11, 1921. Serial No. 476,875. 1 Claim. (Cl. 119—105.)



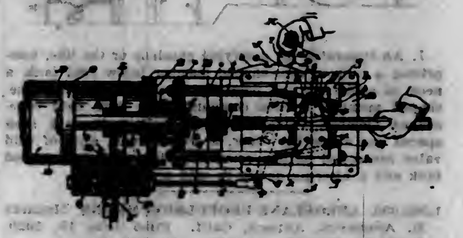
1. A cow tail holder comprising an open-ended and longitudinally split tail encircling cylinder, a tail pivotally carried by the cylinder at one side of the split, a hook carried by the cylinder at the other side of the split for engagement by the tail, one end of the cylinder having longitudinally and inwardly extending hair engaging prongs, a loop pivotally carried by the side of the cylinder opposite the split, and a leg engaging means carried by the loop.

1,395,701. DUST-GUARD. THOMAS CAIN, Topeka, Kans. Filed Nov. 12, 1920. Serial No. 424,859. 6 Claims. (Cl. 214—41.)



1. A receptacle, an extensible and contractible discharge spout for said receptacle, a receptacle movable into and out of alinement with the first named receptacle, means carried by the first named receptacle to cause expansion and contraction of the spout, and means on the second named receptacle for actuating the first named means.

1,395,702. SHANK AND BIT PUNCH. JESSE DERSON, Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Sept. 18, 1920. Serial No. 410,546. 5 Claims. (Cl. 79—8.)

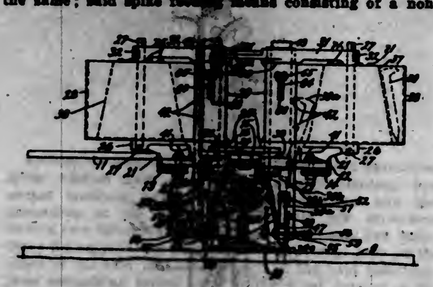


1. In a shank and bit punch, the combination of clamping members for clamping the article to be punched, a cylinder, a clamping piston and a piercing piston reciprocating in said cylinder, operative connections between the clamping piston and the said clamping members, a pin connected to be operated by the piercing piston and means for controlling the supply of motive fluid to said cylinder for operating said pistons.

1,395,703. RAIL-SPIKING DEVICE FOR RAILWAYS. NILS ERICSON, St. Paul, Minn. Filed June 15, 1921. Serial No. 477,714. 6 Claims. (Cl. 104—17.)

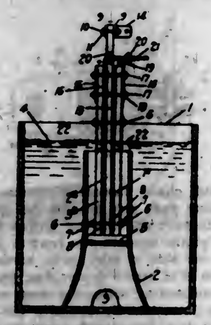
1. In a spiking device for railway tracks, a frame movable on the track rails, means carried by the frame for guiding spikes down to driving position, said guiding means comprising for each rail a vertically disposed guiding tube

at each side of the rail, said tubes having each a side opening into which to feed the spikes one at a time, means for carrying the spikes into said openings, a spike driving plunger slidable in each tube and projecting always above the same; said spike feeding means consisting of a non-



rotatable hopper near the side opening of each tube and having a bottom opening leading into the side opening of the tube, a rotary cylindrical magazine inside each hopper and provided with peripherically arranged spike pockets, and means for rotating the two magazines at each rail simultaneously by steps each of which brings a filled spike pocket to register with the adjacent spike guiding tube.

1,395,704. ELECTROLYTIC CELL. JOHN GERSTLE, Dayton, Ohio, assignor to The Electro Chemical Company, Dayton, Ohio, a Corporation of Ohio. Filed Dec. 6, 1920. Serial No. 428,463. 5 Claims. (Cl. 204—5.)



1. In an electrolytic cell, the combination with spaced-apart electrodes, of supporting means therefor mounted on the floor of the cell, through which the electrolyte can pass to the space between said electrodes.

1,395,705. BALL-DISPENSING DEVICE FOR GAME APPARATUS. HERBERT C. GRANNIS, Indianapolis, Ind., assignor to Briant Specialty Company, Indianapolis, Ind., a Corporation. Filed Aug. 26, 1918. Serial No. 251,475. Renewed June 27, 1921. Serial No. 480,908. 2 Claims. (Cl. 46—61.)



1. The combination with a game apparatus including an alley for rolling balls, of a ball return raceway comprising a fixed ball supporting floor and a movable floor, means for hingedly mounting the movable floor, means for supporting said hinged floor in normal horizontal position, and means for actuating said supporting means for releasing and for positively returning the movable floor to normal position.

1,395,706. ROTARY WELL-DRILLING APPARATUS. EDGAR B. GENTH, Bellevue, Pa. Filed Dec. 22, 1919. Serial No. 346,663. 24 Claims. (Cl. 255—19.)



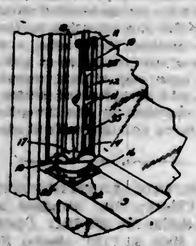
1. In a rotary well drilling apparatus, the combination with a drill-pipe, of a combined motor and water-swivel structure having a common rotative shaft, and means for connecting a drill-pipe section to the shaft including a slidable coupling-member.

1,395,707. CRIMPED JOINT FOR BATHROOM-FIXTURES. WILLIAM H. GUERSON, Waterbury, Conn., assignor to The Chase Companies, Inc., Waterbury, Conn., a Corporation. Filed Sept. 13, 1920. Serial No. 409,892. 2 Claims. (Cl. 285—25.)



2. A bathroom fixture having a struck-up fastening plate and a tubular member, the former having spiled an assembling opening surrounded by segmental flanges separated by crimp-receiving notches, and the latter having an abutment-bead and an assembling sleeve which is crimped to form locking-flutes entering the said notches for holding the two parts together.

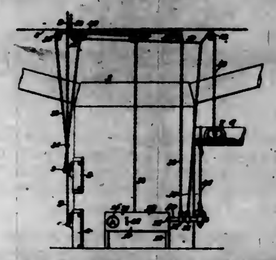
1,395,708. VENTILATING-SASH LOCK. FRANK P. GRODE and FRED HUTTIG, Kansas City, Mo. Filed May 27, 1920. Serial No. 384,744. 8 Claims. (Cl. 292—240.)



1. A sash lock comprising a vertical latch engaging strip adapted to be secured to one of the sash members,

a movable latch bar adapted to be mounted on the other mesh member, and provided with a toothed end portion, said latch strip being formed with serrations pointing in a direction away from the plane separating said mesh members, and means for swinging said latch bar into and out of position for hooking the toothed end portion of said bar around said latch engaging strip and for longitudinally reciprocating said bar when in strip engaging position.

1,395,709. AUTOMATIC FURNACE-DAMPER-CONTROLLER. ERNEST J. HENRY, Cedar Rapids, Iowa. Filed Apr. 21, 1919. Serial No. 291,495. 5 Claims. (Cl. 161—8.)



1. Furnace draft-controlling apparatus, comprising a lever weighted at one side of its pivot, a chain on the weighted side connecting with the draft-damper, a chain on the opposite side connecting with the check-damper, a trip-lever to support the weighted lever, an alarm-clock whose vibrator engages said trip-lever, a preponderating weight connected with said weighted lever, and opposite said weight, and means breakable by the excess heat of the furnace to support said preponderating weight therefrom.

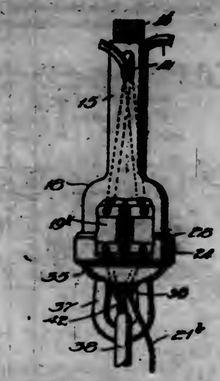
1,395,710. ELECTRIC-LIGHTING FIXTURE. MAX HERSKOVITS, Chicago, Ill. Filed Oct. 18, 1918. Serial No. 258,721. 6 Claims. (Cl. 240—78.)



1. An electric lighting fixture, comprising a hollow fixture stem formed at one end with means for directly attaching it to a fixture supporting member, and formed at its other end with an open-ended enlargement to provide a receptacle for the reception of the interior of an electric contact member, there being a shoulder formed on the outer face of said enlargement and a lower holding member, at the open end of said receptacle detachably secured against said shoulder and acting to secure said electric contact member in the receptacle, said lower holding member being provided with shade holding means.

1,395,711. ELECTRIC-LIGHTING FIXTURE. MAX HERSKOVITS, Chicago, Ill. Original application filed Oct. 18, 1918, Serial No. 258,721. Divided and this application filed Mar. 3, 1919. Serial No. 280,259. 11 Claims. (Cl. 240—78.)

11. An electric lighting fixture, comprising a hollow fixture stem formed at one end with means for attaching it to a fixture supporting member and formed at its other end with an open ended enlargement to provide a receptacle, and a lower holding member detachably connected



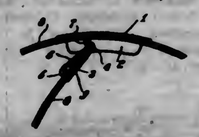
to the open end of said receptacle and formed with a cap for closing the open end of the receptacle and with solid fixture supporting means, there being a separate outlet opening in the cap for conductor cords.

1,395,712. NON-SKID CHAIN-FASTENING MEANS. ERNEST P. HOSLEY, Syracuse, N. Y. Filed Feb. 8, 1921. Serial No. 443,880. 2 Claims. (Cl. 152—14.)



1. A non-skid chain fastening means comprising a member extending part way around the spoke of a wheel near the rim thereof and having means for holding the end links of a chain beneath the central part of the rim of a wheel on one side of said spoke, means for clamping said member to said spoke comprising parts having one end thereof interlocking with the first mentioned member and means diametrically opposite the holding means for locking the last mentioned parts together, substantially as and for the purpose set forth.

1,395,713. BELT-BUCKLE. ERNEST N. HUMPHERY, New Britain, Conn. Filed July 22, 1921. Serial No. 486,674. 3 Claims. (Cl. 24—191.)



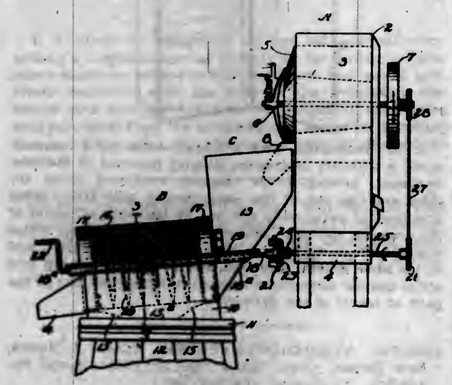
1. In a buckle, a front plate having rearwardly extending flanges at the upper and lower edge, a plate pivotally connected between said flanges, another plate pivotally connected to the free end of the first plate and coacting therewith to grip one end of a belt, a cam near the free end of the last mentioned plate, said cam lying adjacent to the pivotal portion of the first mentioned plate when the parts are assembled with a belt whereby said cam will operate to grip the adjustable end of a belt between it and the back of a front plate.

1,395,714. FORCEPS. ALBERT BAXTER JOHNSON, New Britain, Conn. Filed Apr. 12, 1921. Serial No. 460,824. 1 Claim. (Cl. 32—34.)



Forceps constructed and arranged for use in extracting lower wisdom teeth comprising a pair of pivotally connected members having handles at one end and jaw structures at the other end, the said jaw structures having two individual jaws for each of the said jaw structures for coöperating with the two individual jaws of the other of the said jaw structures, and the said individual jaws comprising forcep jaws at the front portion of the jaw structures for engaging with the body of the tooth to be extracted, and elevator jaws of generally wedge-shaped form of cross-section for being entered between the said tooth and the next tooth.

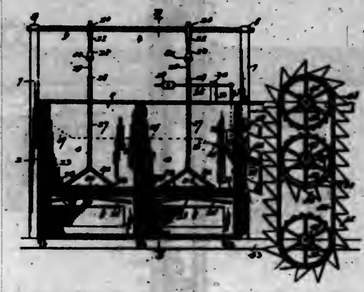
1,395,715. POPCORN-SIFTING MACHINE. EUSTACE R. KNOTT, Sharon, Mass. Filed Dec. 28, 1916. Serial No. 139,383. 2 Claims. (Cl. 130—16.)



1. A sifter comprising a revoluble, open-ended screen having an internal barrier forming a longitudinal central passage-way, and a plurality of axially spaced segmental deflectors for interrupting the direct flow through the passage-way of the material being screened.

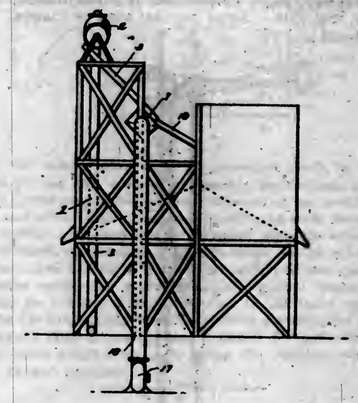
1,395,716. MINERAL OR COAL SEPARATING JIG. HARRY D. KOSTENBAUDER, Aristes, Pa. Filed Oct. 2, 1920. Serial No. 414,168. 1 Claim. (Cl. 83—79.)

In a mineral separator, a jig casing provided with a pan receiving separating compartment, a perforated pan in said compartment provided with an opening at one end, one edge of said opening having a depending wall, a chute engaging through the wall of the casing and communicating with said compartment, a trap mounted for pivotal movement in said opening for closing the same, said chute communicating with said compartment at a point opposite and below the depending wall, whereby the trap may assume an inclined position in alinement with the bottom of the chute when overbalanced by the weight of the mineral thereon, so that one edge of the trap may assume a position even with the upper surface of the pan,



gravity means for holding the trap normally closed, and a second chute for carrying off the lighter particles of the mineral.

1,395,717. SAND, GRAVEL, AND STONE CLEANING MACHINE. FRANK LE COCQ and IRWIN LE COCQ, Aberdeen, S. D. Filed Apr. 28, 1920. Serial No. 376,179. 3 Claims. (Cl. 83—54.)



1. A separator for grading machines including a plurality of screens, means for delivering a distinctive grade of material over each of the screens, a hollow body carrying said screens, partitions dividing said body into chambers to provide a separator chamber for each screen, means for directing an air blast into the body and through said openings and screens successively, and a valve for controlling the admission of said air blast to each chamber, the air blast when admitted to each chamber passing upwardly through the screen.

1,395,718. OIL-WELL PACKER. PATRICK H. MACK, Bradford, Pa., assignor to Oil Well Supply Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 28, 1919. Serial No. 341,172. 8 Claims. (Cl. 166—13.)

1. In a well packer, a body member, a packing surrounding the body member, a telescoping member associated

with the lower end of the body, said telescoping member having a serrated bore therein, and yieldable locking



means on the body coacting with the serrations in the bore.

1,395,719. OIL-WELL PACKER. PATRICK H. MACK, Bradford, Pa., assignor to Oil Well Supply Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 28, 1919. Serial No. 341,173. 8 Claims. (Cl. 166—18.)



1. The combination with a well packer, of a container adapted to be secured to the lower end of the packer and including a hollow body, a closure for the lower end of the body, said closure provided with an outlet passage, means controlling the passage of material through said outlet passage, and means whereby the packer will be expanded after the controlling means has been moved to open the outlet passage.

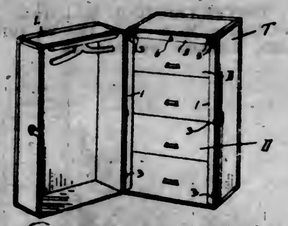
1,395,720. WELL-SEAL. PATRICK H. MACK, Bradford, Pa., assignor to Oil Well Supply Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 28, 1919. Serial No. 341,176. 4 Claims. (Cl. 166—10.)

1. A well seal including a coupling member threaded at its upper end and adapted to be connected with a casing section, said coupling member having an extension threaded at its lower end, a compressible packing member surrounding the threads on said extension, and projecting below the end of said extension, means for binding the



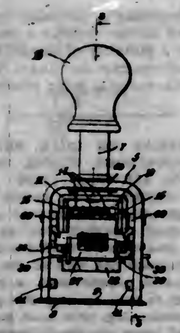
compressible member to the extension, and a shoulder above the threaded extension and with which the top of said packing member contacts.

1,395,721. LOCKING DEVICE. RANDOLPH MADISON, Petersburg, Va. Filed Mar. 2, 1921. Serial No. 449,019. 3 Claims. (Cl. 45—94.)



2. In combination with a container having a compartment, a plurality of drawers slidably mounted in the compartment, locking strips hingedly connected along the sides and one end of the compartment, said strips being arranged to swing into and out of the path of travel of the drawers, operative connection between adjacent strips whereby all of said strips have movement in unison and in the same general direction, and means for locking said strips against swinging movement in a direction out of the path of travel of the drawers.

1,395,722. NUMBERING-MACHINE. ALBERT J. MARKS, New Britain, Conn. Filed Jan. 12, 1921. Serial No. 436,779. 17 Claims. (Cl. 101—83.)



1. In a numbering machine, a U-shaped frame, stationary abutment pins on said frame, a numbering head re-

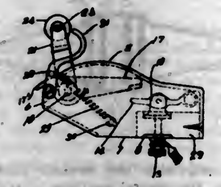
ciprocable in said frame and carrying numbering wheels, a yoke pivoted to said numbering head and carrying a comb, and a spring for urging the numbering head in one direction, said yoke being adapted to contact with the stationary abutment pins projecting from said frame for moving the yoke on both the up and down stroke thereof for shifting the numbering wheels.

1,395,723. PARACHUTE FOR USE WITH AEROPLANES. FRANK CHARLES MEARS, Edinburgh, Scotland. Filed July 1, 1919. Serial No. 307,966. 6 Claims. (Cl. 244—21.)



1. A parachute equipment for use with aircraft comprising a container carried directly by the airman, a parachute normally housed in said container and means positively connected with the aircraft and detachably connected with said parachute for automatically abstracting said parachute from the container and means for unrolling the parachute when the airman has jumped clear of the aircraft.

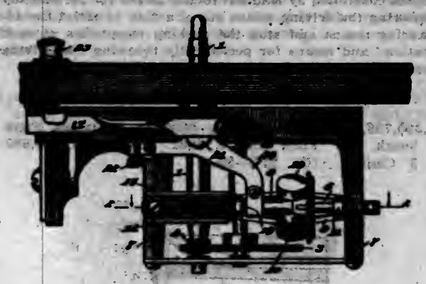
1,395,724. SAFETY DEVICE FOR MOVING-PICTURE MACHINES. CHARLES F. MEHL, HENRY B. LIEBLER, JAMES HALL, and EDWARD J. NOBER, Cleveland, Ohio. Filed June 18, 1919. Serial No. 305,204. 4 Claims. (Cl. 88—17.)



1. The combination with a moving picture machine and the motor and light circuit therefor, of a switch, automatically operating means for opening the switch upon the breaking of the film, and means for simultaneously locking said automatically operating means in its inoperative position and said switch in its open position.

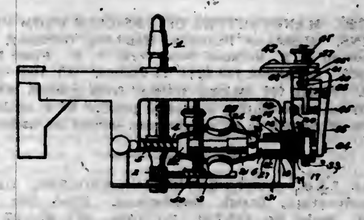
1,395,725. BRAKING MECHANISM FOR TALKING-MACHINE MOTORS. LEVIN H. MULLIKIN, Easton, Md. Filed Mar. 26, 1920. Serial No. 369,140. 2 Claims. (Cl. 188—187.)

1. The combination with the governor shaft and a centrifugal governor thereon provided at one end with a loose collar, of a sliding brake member having a laterally extending arm swiveled at its free end to the said loose



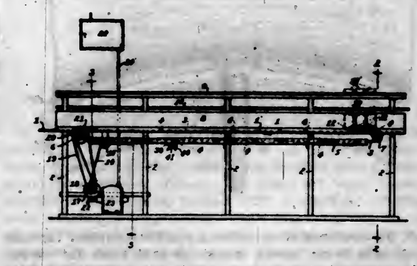
collar, a guide-way for the slide, and a stop in the path of the said slide to limit its movement.

1,395,726. BRAKE MECHANISM FOR TALKING-MACHINE MOTORS. LEVIN H. MULLIKIN, Easton, Md. Filed June 7, 1921. Serial No. 475,705. 12 Claims. (Cl. 188—187.)



9. The combination with the governor shaft having a worm at one end, a speed responsive sleeve loose on the shaft, speed responsive means connected at one point with that end of the sleeve next to the worm to slide the sleeve and rigidly connected at another point with the other end of the shaft, an annular braking member on the extremity of the sleeve beyond said fixed connection of the speed responsive means, of a non-revoluble tubular brake slide having an annular braking member on its inner end opposing the first named braking member, a bearing on which the brake slide is mounted, and means for adjusting the brake slide longitudinally to bring the braking members into proper relation.

1,395,727. PACKING-TABLE. CLARENCE W. OBERMATT, San Francisco, Calif. Filed Nov. 26, 1920. Serial No. 426,461. 10 Claims. (Cl. 226—2.)



1. A packing-table comprising a frame having a working top with a plurality of successive packing stations;

means for advancing packing receptacles to said stations successively; means for driving said advancing means; means controlled by said advancing means for periodically throwing the driving means out of action to arrest the advancing means and stop the packing receptacles at each station; and means for periodically throwing the driving means into action again.

1,395,728. BARREL-CLEAT. NORMAN A. OEHMS, Pittsburgh, Pa. Filed Mar. 9, 1921. Serial No. 450,882. 5 Claims. (Cl. 217—89.)



1. A barrel cleat comprising a body having strengthening flanges extending therealong, said body terminating at each end in a substantially flat hook portion, and a strengthening rib formed in each of the hook portions.

1,395,729. MANUFACTURE OF ARTICLES FROM PROTEINS. HERMANN PLAUSON, Hamburg, Germany, assignor to D. R. Rotman, New York, N. Y. Filed Feb. 8, 1921. Serial No. 443,424. 11 Claims. (Cl. 106—38.)

1. A process for making articles from protein which consists in consolidating a protein powder by a colloidal solution of protein in an organic non-solvent as binder.

1,395,730. RUST-PREVENTING PROCESS. DAVID REICHINSTEIN, Zurich, Switzerland. Filed Dec. 18, 1916. Serial No. 137,720. 2 Claims. (Cl. 87—27.)

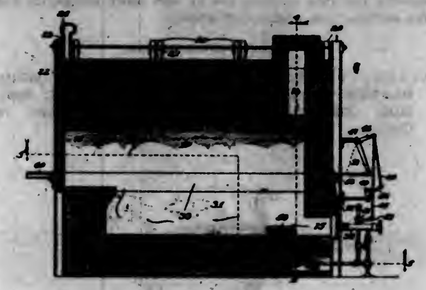
1. A process for preventing the rusting of iron surfaces of steam operated apparatus contacted by steam containing air at high temperatures, which comprises adding from time to time a gaseous base mixed with nitrogen to the steam containing air.

1,395,731. VALVE-PAD FOR PNEUMATIC TIRES. NATHAN F. RICE, Chicago, Ill. Filed Oct. 20, 1919. Serial No. 331,772. 16 Claims. (Cl. 152—13.)



15. In combination, a valve, a resilient element through which said valve passes, means on said valve for clampingly engaging said element; and a non-extensible flexible member coöperating with said element to prevent the same being moved out of engagement with said clamping means.

1,395,732. METHOD OF ENAMELING WARE. ROBERT ROADHOUSE, Des Plaines, Ill., assignor of one-half to Thomas E. McCaig, Chicago, Ill. Filed Mar. 9, 1921. Serial No. 450,862. 6 Claims. (Cl. 25—132.)



1. In a furnace for enameling and the like, a chamber, means for producing combustion therein, control means for stopping said combustion, means for scavenging the products of combustion and means for closing the chamber during the baking operation.

1,395,733. TANNING. ADOLF RÖMER, Stuttgart, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Dec. 23, 1916. Serial No. 138,665. 3 Claims. (Cl. 149—5.)

3. The process of tanning which comprises treating the skins in a bath containing formaldehyde and subsequently in a bath containing a soluble aromatic compound containing an amino group and capable of forming an insoluble product with formaldehyde.

1,395,734. WHEEL. RALPH R. ROOT, Cleveland, Ohio, assignor to The Globe Machine & Stamping Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 20, 1920, Serial No. 431,851. Renewed Sept. 15, 1921. Serial No. 500,955. 4 Claims. (Cl. 301—63.)

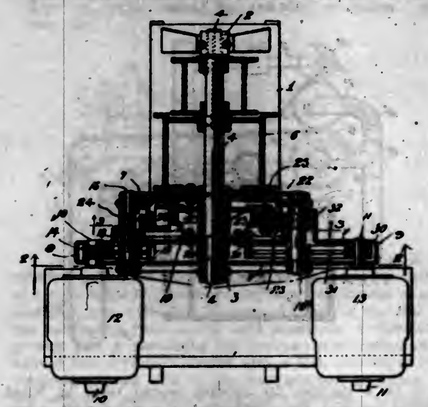


1. A wheel comprising two annular parts which are secured together, the central portions of said parts being spaced apart and each provided with a central extension, a hollow cylindrical member within and extending between said extensions, a hollow spool member with flaring portions within the cylindrical member and rollers between the outer surface of the spool member and the inner surface of the cylindrical member and means carried by the boss portions for holding the said spool in position.

1,395,735. HOISTING APPARATUS. HARRY SAWYER, Muskegon, Mich., assignor to Shaw Electric Crane Company, Muskegon, Mich., a Corporation of Michigan. Filed July 12, 1916. Serial No. 108,830. 11 Claims. (Cl. 254—184.)

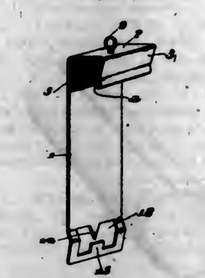
1. In a combined rack and hoist mechanism, the combination with a motor, a hoist drum and a rack drum,

said drums located adjacent each other, of a planetary gear system located at one side of said drums and between



said drums and motor and actuated by said motor for simultaneously driving said drums.

1,395,736. CHECK HOLDER AND NOTCHER. WALTER H. SAWYER, Philadelphia, and ANDREW C. BOYD, Lansdowne, Pa. Filed Feb. 17, 1921. Serial No. 445,802. 7 Claims. (Cl. 211—37.)



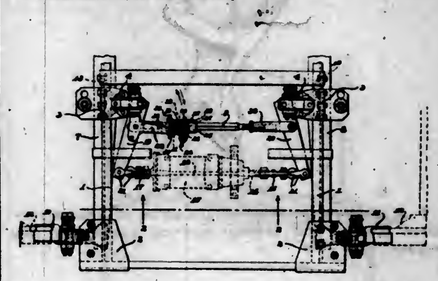
1. A check notcher comprising a check supporting plate having an opening formed therein, and a notching member integral and substantially rigid with said plate, said notching member extending partially across and terminating materially short of the opposite side of said opening and having its sides materially spaced from the sides of said opening, whereby a check may be passed over said opening and under said notching member and notched thereby by movement with respect thereto.

1,395,737. SPARK-INTENSIFIER. PETER A. SCHAEFER, Greensburg, Pa. Filed Aug. 24, 1920. Serial No. 405,580. 3 Claims. (Cl. 175—183.)



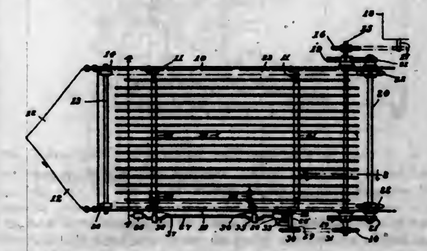
1. A device of the character described including an insulating core, terminals secured to one side of the core and offset to extend axially thereof, an electrode mounted upon the core to provide spark gaps between the electrode and said terminals, thimbles fitting over the terminals to abut the offsets therein, and a housing tube extending between and supported by the thimbles to inclose said spark gaps.

1,395,738. SLACK-ADJUSTER. BERNARD SCHECHTER, St. Louis, Mo. Filed Sept. 14, 1920. Serial No. 410,238. 20 Claims. (Cl. 188—202.)



5. In a slack adjuster, the combination of an adjusting rod, a surrounding cylindrical ratchet block fixed thereto with respect to rotation, a second cylindrical ratchet block not fixed thereto with respect to rotation, each block having teeth integrally formed at its end which may engage the teeth of the other, a hollow cylindrical rotatable housing surrounding and operating rotatably the second aforementioned ratchet block extending longitudinally from said housing, a socket equipped with a flared end which is embraced by said ears and into which the adjusting rod screws, set bolts threaded in said ears and gripping lightly behind said flare, an outwardly and upwardly extending dog integrally formed with the cylindrical portion of said housing, a horizontally swinging arm, provided with an arcuate slot formed in the end thereof and engaged by said dog.

1,395,739. CONVEYER. CHARLES L. SCHLADINSKA, Fountain City, Wis. Filed July 16, 1920. Serial No. 396,869. 1 Claim. (Cl. 130—82.)



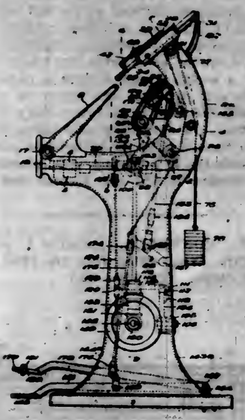
A shaking screen including a frame, transverse bars connecting the sides of the frame, an inverted channel member on each of the bars for longitudinal slidable movement with respect thereto, the bight of each inverted channel member being formed with a plurality of transverse notches, a longitudinal shaft supported on one side of the frame and having crank portions, screening bars disposed in the said notches and extending longitudinally within the frame, and pitmen connected to certain of the outermost of the screening bars and operatively connected with the crank portions of the longitudinal shaft.

1,395,740. SHOE-HEEL. EDWARD O. SCHLOEMER and HARRY SCHEINBERG, St. Louis, Mo. Filed June 16, 1920. Serial No. 389,283. 4 Claims. (Cl. 36—40.)



1. A shoe heel provided with a series of relatively inclined sockets, and fastener-receiving anchors in said sockets.

1,395,741. MACHINE FOR TURNING SHOES. JOHN E. SCOTT, Lynn, Mass., assignor to Hamel Shoe Machinery Company, a Corporation of Massachusetts. Filed June 2, 1919. Serial No. 301,292. 40 Claims. (Cl. 12—57.)

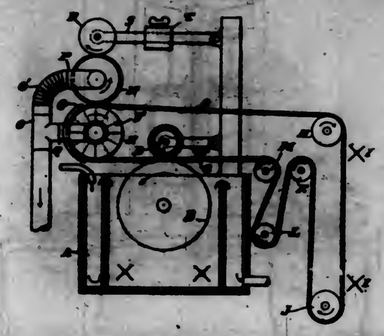


1. A shoe turning machine having, in combination, an endless sole feeding device, said device comprising a series of spurs normally lying within the body of the device, and means for moving said device to feed a sole during the turning operation the parts being constructed and arranged to cause said spurs to project beyond the body of the device during a portion of the movement of said device.

16. In a machine for turning shoes, in combination, turning devices, and means constructed and arranged to engage the interior of the unturned upper and to roll the same outwardly at the bend thereof during the turning operation.

22. In a shoe turning machine, a horn having a rearwardly inclined shoe supporting surface, turning means carried by said horn, an upper distending element movable toward and from said horn, means for guiding said element for movement in a substantially rectilinear path and in a plane substantially parallel to said supporting surface, and means for moving said element.

1,395,742. MACHINE FOR MAKING PULP TUBES. WILLIAM R. SEIGLE, New York, N. Y. Filed June 28, 1920. Serial No. 392,371. 8 Claims. (Cl. 92—66.)



1. In a machine for forming wound tubes of felted fibrous material, the combination of a web-carrier, a segmental suction roll on which the web-carrier travels, and a suction mandrel roll bearing on the web-carrier and segmental suction roll.

1,395,743. BRAKE OR CLUTCH BAND LINING. WILLIAM R. SEIGLE, New York, N. Y. Filed June 28, 1920. Serial No. 392,373. 4 Claims. (Cl. 188—259.)



1. Brake or clutch lining, the body of which consists of a curved-surfaced band of felted fibrous material of layer-accretion construction, in which the original curvature of formation is preserved.

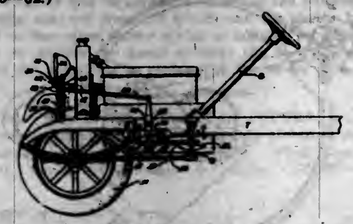
1,395,744. METHOD OF IMPREGNATING POROUS OR BIBULOUS MATERIALS AND THE PRODUCT THEREOF. WILLIAM R. SEIGLE, New York, N. Y. Filed June 28, 1920. Serial No. 392,376. 26 Claims. (Cl. 91—70.)

1. The method of impregnating porous or bibulous material with an oily composition, comprising preparation of a heat-polymerizable oil by partial molecular saturation of its free bonds with an introduced reagent, filling the material with said partially molecularly saturated oil, and completion of molecular saturation of the oil within the material under heat.

7. Porous or bibulous material, impregnated with an oil molecularly saturated in part by an introduced reagent, and in part heat-polymerized.

23. Brake-lining or the like, comprising a body of porous material uniformly impregnated with a mixture of gilsonite and heat-polymerized, partially hydrogenated tung oil.

1,395,745. DIRIGIBLE HEADLIGHT. FAY E. SHAFER, St. Louis, Mo., assignor to Shafer Safety Auto Post Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 14, 1920. Serial No. 410,305. 2 Claims. (Cl. 240—62.)

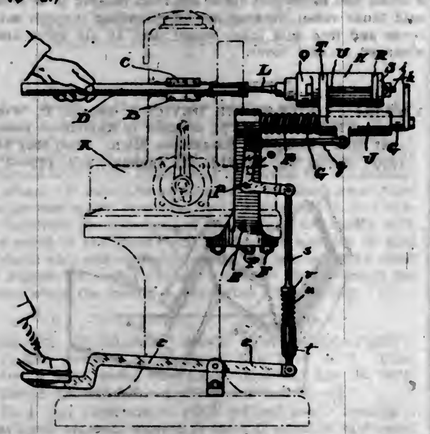


1. In an automobile light adjuster, the combination of rotating lights, standard for said lights, arms extending at a right angle from said standards, a link pivoted to said arms, an arm extending horizontally out to the side of the automobile from one of said standards, a vertically-pivoted arm, a connecting rod joining the aforementioned arm to said vertically-pivoted arm, a link connecting said vertically-pivoted arm to the conventioned guide-rod of the ordinary automobile steering apparatus, a reduced portion on said link, a guide sleeve for said link, said sleeve being pivoted on the lower end of the aforesaid vertically-pivoted arm, springs coiled about the reduced portion and on each side of the sleeve, means for causing the springs to re-act upon the sleeve in the form of a shoulder on one side and a nut and its locking nut on the other side, a ball formed on one end of the link, said ball fitting into a socket, said socket being a portion of a split clamping member of the guiding arm.

1,395,746. ANIMAL FOOD COMPOSITION AND METHOD FOR PREPARING SAME. LEE C. SHARP, Plattsmouth, Nebr., assignor to Alfa-Maise Manufacturing Company, Wilmington, Del. Filed Sept. 2, 1919. Serial No. 321,060. 3 Claims. (Cl. 99—11.)

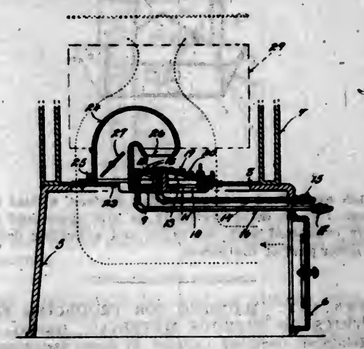
1. An animal food product consisting principally of mature and cured corn stover comminuted to thin flaky particles of a length averaging less than an inch, and having the parts thereof flattened and crushed by pressure.

1,395,747. SHANK AND BIT PUNCH. WILLIAM A. SMITH, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Apr. 24, 1920. Serial No. 376,206. 8 Claims. (Cl. 76—5.)



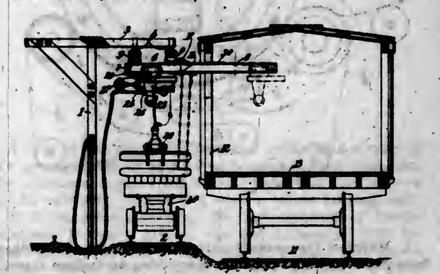
1. In a machine for re-opening the bits and shanks of hollow drill steels and similar tools, the combination of means for holding the drill steel, a pin adapted to enter the drill steel, punching mechanism in the form of a fluid actuated hammer tool for hammering the pin into the drill steel, said hammer tool having a reciprocating piston and an anvil block located at the forward end carrying said pin, and manually actuated means for feeding the punching mechanism forward.

1,395,748. OIL-BURNER. ALEXANDER O. TESCH, Chicago, Ill. Filed Mar. 8, 1921. Serial No. 450,547. 5 Claims. (Cl. 158—91.)



1. In an oil burner, a circular burner plate, means for supplying liquid fuel to the center thereof, a plurality of concentric wicks set in said plate for absorbing the fuel, means for inducing a current of air downwardly onto the plate to spread the fuel uniformly toward the periphery of the plate and over said wicks, and a concentric series of perforations through the plate near its periphery for supplying air to mingle with said fuel.

1,395,749. LOADING AND UNLOADING DEVICE. HOWARD W. THORN, Chrome, N. J., assignor to United States Metals Refining Co., Chrome, N. J., a Corporation of New Jersey. Filed Sept. 24, 1919. Serial No. 325,863. 9 Claims. (Cl. 212—15.)

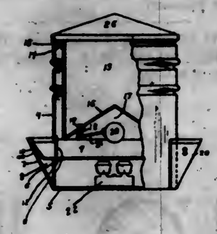


1. A loading and unloading device, comprising a hinged rail, and supporting means for said rail and on which said rail is movable, a carriage movable on said rail, and hoist means on said carriage, one part of said rail being attached to the supporting means, and the other part hingedly connected with said first part and provided with lateral extensions adapted to space said rail from the sides of a doorway into which the rail is adapted to be extended.

1,395,750. STOCK-WATERER. PAUL B. THRASHER, Sioux City, Iowa, assignor to William Warnock Company, Sioux City, Iowa, a Corporation of Iowa. Filed Feb. 20, 1920. Serial No. 360,258. 1 Claim. (Cl. 119—73.)

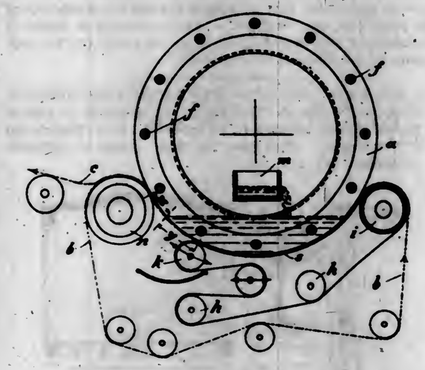
A stock-waterer comprising a jacket, a trough extending across and protruding through the walls of the jacket, a

water supply tank resting upon the trough, the bottom of the tank being provided with a valved opening above the trough, and raised to provide a space between the tank and



trough and afford a large heating surface, a float in the trough free to move vertically in said space and operatively connected with the valve, and a heating device in the lower part of the jacket.

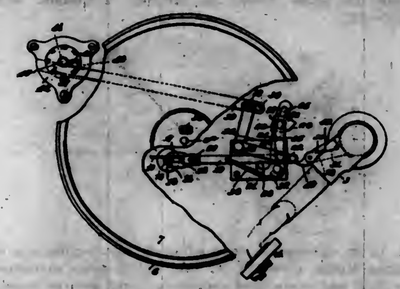
1,395,751. MACHINE FOR PRODUCING SMALL STRIPS OF FIBROUS MATERIAL. GUSTAV TÜRK, Meiningen, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed May 5, 1919. Serial No. 294,994. 6 Claims. (Cl. 92—39.)



1. Machine for manufacturing narrow strips of fiber from paper pulp and the like, comprising an endless traveling sieve, an impermeable apron within the sieve and in contact with the sieve for part of its length, a plurality of disks, resting on the sieve and means for feeding pulp between the disks.

1,395,752. AUTOMATIC RELEASE AND BRAKE MECHANISM FOR TALKING-MACHINES. ANTHONY VASSELLI, Newark, N. J., assignor, by mesne assignments, to The Harriman National Bank of the City of New York, trustee. Filed Jan. 29, 1918. Serial No. 214,301. 28 Claims. (Cl. 192—116.)

12. A device of the character described, having a motor, a brake, a pivoted tone-arm, means for applying the brake, an element for retracting the brake, an arm carried by the tone-arm, a finger carried by the arm and movable in one direction only relatively thereto, a slide carrying the element whereby movement of the tone-arm in one



direction bringing the finger into engagement with the slide to cause the said element to retract the brake.

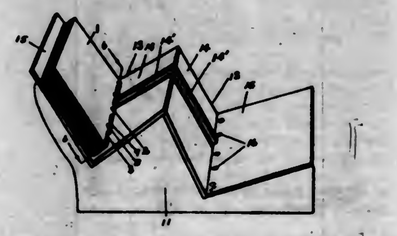
1,395,753. APPARATUS FOR USE IN PREPARING LIQUID OR SEMILIQUID MATERIALS. LOUIS A. WEHLE, Buffalo, N. Y. Filed Oct. 30, 1920. Serial No. 420,810. 8 Claims. (Cl. 99—2.)



1. The combination of an inner and an outer vessel arranged one partly within the other, and a cover arranged over said inner vessel and having a part extending into the space between said inner and outer vessels to form a liquid seal when said outer vessel contains liquid, the liquid in said outer vessel also serving to cool the contents of said inner vessel.

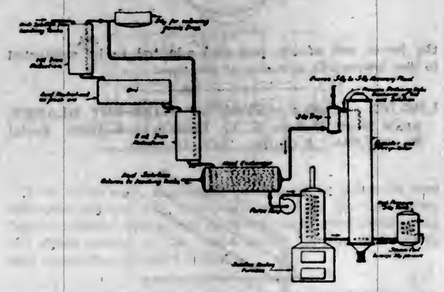
8. The combination of two vessels, one of which is arranged partly within the other and at a distance from the side and bottom walls of said other vessel to form a space for a cooling liquid, a cover for the inner vessel which extends into the space between said two vessels to form a liquid seal to prevent air or gas from passing to or from said inner vessel, racking means extending through said cover and into said inner vessel, and an air valve also arranged in said cover.

1,395,754. LOOSE-SHEET DEVICE. GEORGE P. WIGGINTON, Kalamazoo, Mich., assignor to Kalamazoo Loose Leaf Binder Company, Kalamazoo, Mich. Filed May 14, 1920. Serial No. 381,313. 11 Claims. (Cl. 129—1.)



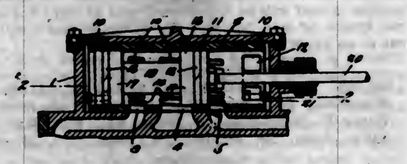
11. The combination with sheets, of a binder comprising a pair of binder members, posts removably engageable with said sheets and binder members and constituting a binding means for the sheet body so that it may be removed from the binder as a unit, and a sheet support comprising a pair of sheet holders disposed so that the body of sheets may be arranged on one of the holders and the posts removed from the sheets and the sheets transferred to the other holder which is adapted to aline the sheets to receive the posts so that the body of sheets held by the posts may be replaced in the binder as a unit.

1,395,755. HYDROMETALLURGY OF COPPER. GILBERT A. BRAGG, Thomson, Nev., assignor to Metals Research Company, a Corporation of Maine. Filed Aug. 16, 1920. Serial No. 403,761. 9 Claims. (Cl. 75—18.)



1. The method of extracting copper from ores, roasted matte, or other copper-bearing material, which comprises leaching the material to obtain a copper sulfate solution, heating the copper sulfate solution, and introducing sulfur dioxid into the heated copper sulfate solution; substantially as described.

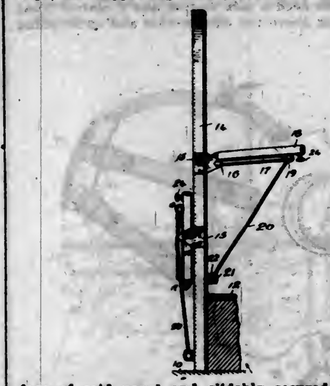
1,395,756. VALVE. WILLIAM A. MCREYNOLDS and ROSMER BRIGGS, Haselton, Kans. Filed June 20, 1919. Serial No. 305,541. 1 Claim. (Cl. 121—193.)



In a device of the class described a steam chest and a casing in the steam chest, the chest and the casing having coöperating ports, the casing including a wall having a bottom edge, said wall being inclined with respect to the adjacent wall of the steam chest to provide for the passage of steam, the casing being adapted to be swung away from the bottom of the chest and to be supported on said edge to facilitate the alinement of the ports of the casing with the ports of the chest; and an element movable in said inclined wall and coöperating with the bottom of the chest to dispose the casing at right angles to the bottom of the chest when the casing is supported on said edge.

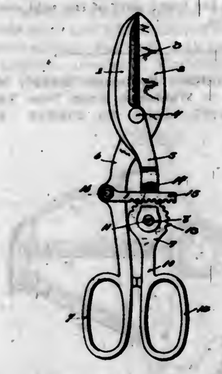
1,395,757. FOLDABLE SEAT FOR PREPAYMENT-CARS. JOHN S. MCWHIRTER, New York, N. Y. Filed Oct. 5, 1915, Serial No. 54,117. Renewed Apr. 29, 1921. Serial No. 465,500. 1 Claim. (Cl. 155—83.)

In a seat structure, a rigid vertical panel forming a seat back, brackets secured to the side edges of said panel and provided with inwardly facing pins, a seat provided with slotted guideways on its under surface near its side edges, said pins being located in the slots of said guideways, and supporting arms pivotally secured to the front



face of said panel and slidably secured at their upper ends in said slotted guided ways substantially as shown and described.

1,395,758. OPERATING MEANS FOR HINGED TOOLS. ALEXANDER MASECZYK, Milwaukee, Wis. Filed Mar. 15, 1920. Serial No. 365,797. 1 Claim. (Cl. 30—13.)

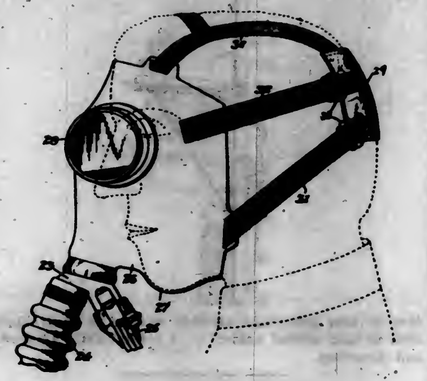


A tool of the character described comprising a pair of jaw members, one of which has a comparatively long handle extension terminating with a grip, and the other a handle extension terminating with a recess forming ears, a pivot connection between the jaw members, a handle extension having a grip at one end associated with the long handle grip, and terminating at its inner end with a circular tooth head mounted between the ears, a pivot connection between the head and ears, the said tooth head being spaced from the bottom of the ear recess to form a rack guide, and a transversely disposed straight rack in pivotal union with the long handle, the same being extended into the guide formed by the ear recess and adapted to be adjustably meshed with the teeth of the aforesaid head, whereby the opening and closing movement of the jaws will be predeterminingly regulated.

1,395,759. GAS-MASK. RANDOLPH MONRO, New York, N. Y., assignor to Waldemar Kops, New York, N. Y. Filed Apr. 30, 1919. Serial No. 293,612. 2 Claims. (Cl. 128—141.)

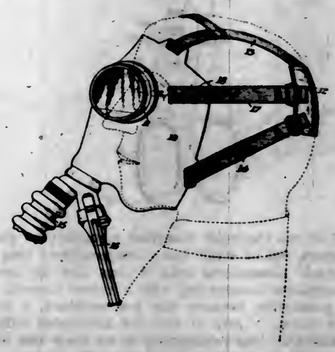
1. In a gas mask, a hood made from a unitary blank of flexible material having symmetrical oppositely dis-

posed parts in its lower edge united by a single joint to completely shape the blank into the hood, whereby there is provided in the hood a chin section and a central front portion extending above the chin section and outstanding



materially from the body of the hood so as not to contact with the nose and mouth of the wearer, there being a tubular opening in the lower part of the said central front portion of the mask.

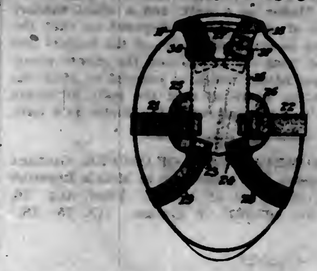
1,395,760. GAS-MASK. RANDOLPH MONRO, New York, N. Y., assignor to Waldemar Kopa, New York, N. Y. Filed Apr. 30, 1919. Serial No. 293,613. 10 Claims. (Cl. 128—141.)



1. In a gas mask, a hood, a harness, and a connection for securing the harness to the hood so constructed as to cause the hood to wrinkle at the temple portions thereof thereby improving the fit of the hood to the face of the wearer.

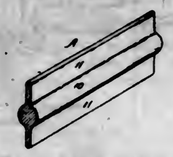
1,395,761. GAS-MASK. RANDOLPH MONRO and EDWARD KLAUBER, New York, N. Y., assignors to Waldemar Kopa, New York, N. Y. Filed Apr. 30, 1919. Serial No. 293,872. 3 Claims. (Cl. 128—141.)

1. In a gas mask and in combination with the hood thereof, a harness comprising a pad adapted to lie on the upper back portion of the head of the wearer, a set of straps diverging upwardly from the top of the pad and adapted to be connected to the upper front portions of the hood, and a set of straps diverging downwardly from



the lower end of the pad and adapted to be connected to the lower side portions of the hood.

1,395,762. MANUFACTURE OF WING-NUT BLANKS. ADAM MUFF, Buffalo, N. Y. Filed Sept. 8, 1920. Serial No. 408,984. 4 Claims. (Cl. 10—86.)





1. A method of manufacturing wing nut blanks, consisting in forming a bar of metal having a longitudinal axial enlarged portion and flange portions of reduced cross section extending outwardly therefrom, and cutting said bar into short pieces in such a manner that the enlarged portion thereof will be cut substantially at right angles to the length of said bar and the flange portions will be cut at an angle to said right angled cut.

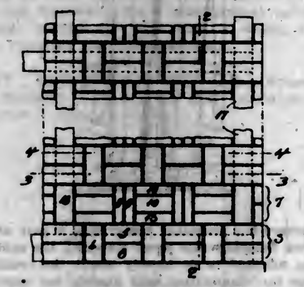
1,395,763. BATH BRUSH AND SPRAYER. JAMES A. MULHERIN, St. Louis, Mo., assignor of one-third to Henry D. Delkeskamp, St. Louis, Mo. Filed Mar. 14, 1921. Serial No. 452,167. 1 Claim. (Cl. 15—69.)



A fountain brush including a hollow rubber head provided with a marginal groove intermediate its faces, a handle equipped with a frame mounted in said groove

and lying within the plane of the head, and a tube engaged with the head for supplying water to the latter, one face of the head having apertures formed therein through which the water is emitted.

1,395,764. BRICK WALL. ERNST EVALD OTTERSTRÖM, Stockholm, Sweden. Filed Feb. 28, 1920. Serial No. 361,952. 7 Claims. (Cl. 72—37.)



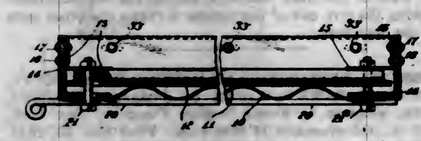
1. A brick wall, consisting essentially of bricks in two different groups, one group of which in section shows two recumbent bricks and between them erect bricks, and the other group of the same height as the first group and consisting of erect bricks.

1,395,765. WELT GROOVING AND BEVELING MACHINE, JAMES O. PERKINS, Auburn, N. Y., assignor to Hamel Shoe Machinery Company, a Corporation of Massachusetts. Filed July 3, 1918. Serial No. 243,118. 3 Claims. (Cl. 12—67.)



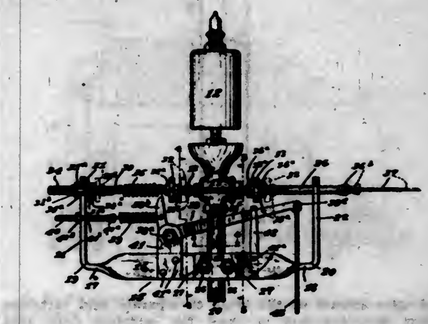
1. In a device for operating upon welts, a support provided with a guide opening therein, a detachable plate on said support projecting partly across said opening, a knife seated within said opening and under the projecting portion of said plate, and a screw mounted for adjustment within said support and arranged to intersect said opening at an acute angle whereby said screw serves to adjustably wedge said knife within the opening and against the projecting portion of said plate.

1,395,766. FIRE-DOOR. ELLIS J. G. PHILLIPS, Aurora, Ill., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill., a Corporation of Illinois. Filed May 17, 1920. Serial No. 382,010. 11 Claims. (Cl. 189—46.)



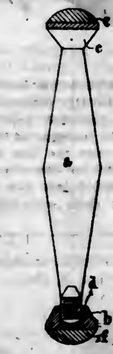
1. A door comprising two sheet metal plates spaced apart forming the body of the door, two angle bars secured to each of the side portions of said plates respectively, and means securing said angle bars together.

1,395,767. SIGNAL-CONTROL MECHANISM. WILLIAM H. POSSINGER and GIDEON T. CUNNINGHAM, Twin, Wash. Filed June 2, 1920. Serial No. 386,118. 10 Claims. (Cl. 187—139.)



1. The combination with a whistle, of a signal control mechanism comprising a support, a movable frame mounted thereon, tensioned means for the frame and a plurality of operating means for moving the frame.

1,395,768. MEANS FOR GAGING THE DIAMETERS OF INTERNAL ANNULAR GROOVES. FRANK POUNTNEY, Birmingham, England, assignor to Rudge-Whitworth Limited, Coventry, Warwick, England. Filed Oct. 31, 1918. Serial No. 260,549. 5 Claims. (Cl. 33—178.)

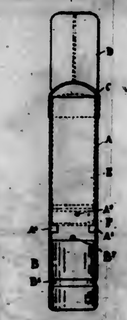


1. A gage for determining internal dimensions of bodies by the contact of diametrically opposite ends of said gage with the surface of the body, said gage including shaped contact pieces at each end and flexible connecting means which extends at least the greater part of the distance between said ends to permit of shortening said gage if required for insertion.

1,395,769. BOMB. FRANCIS RANKEN, Kingsway, London, England. Filed Sept. 16, 1919. Serial No. 324,207. 5 Claims. (Cl. 102—29.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. An incendiary bomb including in combination a cylindrical casing, a heavy member in one end thereof, a separate cartridge with incendiary composition therein

contained in said casing, a detonator cap detachably secured to said separate cartridge containing means adapt-



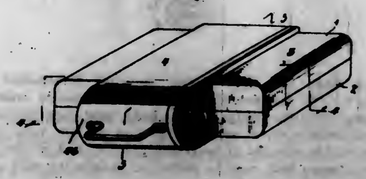
ed upon impact of the bomb to separate said cartridge from said cap and to expel the cartridge from said casing.

1,395,770. PNEUMATIC TIRE. HARLAN S. RECTOR, Chicago, Ill. Filed Oct. 20, 1919. Serial No. 331,922. 3 Claims. (Cl. 152—20.)



2. The combination with a rim having channeled outer periphery, of a pneumatic tire comprising a tube adapted to contain air under pressure provided with integral flanges lapped around the margins of the rim, and adapted to grip the rim and secure the tire by pressure against longitudinal displacement on the rim, and reinforcement in the flanges and extended into the wall of the tube to stiffen the flanges and their connection with the tube.

1,395,771. PORTABLE SAFE. MICHAEL C. REGAN, Washington, D. C. Filed Sept. 8, 1920. Serial No. 408,838. 4 Claims. (Cl. 109—1.)



1. A portable safe comprising a housing having an opening extending therethrough, a container adapted to be slidably inserted in said opening, and project therethrough, said container having openings in its top and bottom walls intermediate the ends thereof, and spring arms pivotally carried on said housing having enlargements adapted to enter said openings for locking said container in said housing, and means for releasing said enlargements from said openings.

1,395,772. SUSPENDED TROUSERS-PROTECTOR. EDWARD L. RICHARDSON, Brooklyn, N. Y. Filed Nov. 19, 1919. Serial No. 339,104. 8 Claims. (Cl. 2—135.)

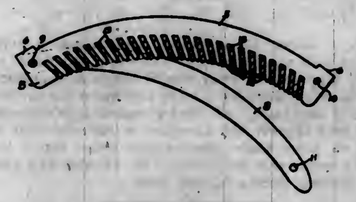


1. A trouser leg protector comprising a pair of guards formed from flexible water proof material, the said guards each being adapted to fit loosely about the trouser legs, and means for supporting said guards for independent movements with respect to the trouser legs in order to permit the lower ends of the same to constantly remain below the shoe tops irrespective of the posture of the wearer.

1,395,773. PROCESS FOR TREATING SHARK-SKINS AND THE LIKE. ALLEN ROGERS, Brooklyn, N. Y., assignor to Ocean Bond Co. Inc., New York, N. Y., a Corporation of New York. Filed July 19, 1919. Serial No. 311,921. 10 Claims. (Cl. 149—2.)

10. The method of treating shark skins and the like, which consists in subjecting them to an acidified solution of common salt and subsequent removal of the excess of acid from the skins by a solution of common salt.

1,395,774. HAIR-WAVER. ARNOLD SCHIERR, New York, N. Y. Filed Mar. 9, 1921. Serial No. 451,053. 9 Claims. (Cl. 132—35.)



9. In a hair waver, a pair of arcuate parallel comb members, bridges connecting the ends of said members and spacing them apart, teeth on the members, the teeth of one member disposed at an opposite angle to the teeth of the other member, a tongue pivoted at one end between the ends of the comb members, and means for removably locking the free end of the tongue between the other ends of the members.

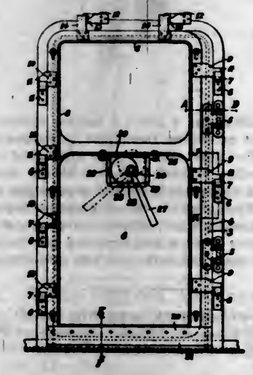
1,395,775. EXPLOSIVE AND METHOD OF MANUFACTURING SAME. WALTER O. SNELLING, Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y., a Corporation of New York. Filed Mar. 25, 1920. Serial No. 368,606. 17 Claims. (Cl. 52—11.)

3. An explosive composition comprising an inorganic nitrate coated with a solid nonexplosive vulcanized oil and sensitized by admixture with a solid detonating explosive.

1,395,776. METHOD OF TREATING UNDRIED ORGANIC NITRATES AND THE LIKE. WALTER O. SNELLING, Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y., a Corporation of New York. Original application filed Mar. 16, 1920, Serial No. 366,390. Renewed Jan. 21, 1921. Serial No. 439,064. Divided and this application filed Mar. 16, 1921. Serial No. 452,733. 7 Claims. (Cl. 52—21.)

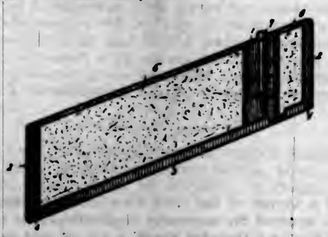
1. The method of treating wet materials to reduce the water content without drying which comprises the step of mixing the material with a concentrated solution of a solid body having high solubility in water, and subsequently removing the excess solution.

1,395,777. BULKHEAD-DOOR. ORSINI STUART, Liverpool, England. Filed May 26, 1921. Serial No. 472,845. 3 Claims. (Cl. 114—117.)



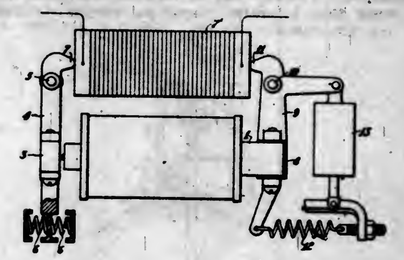
1. The combination of a partition having a doorway formed therein; a floor substantially flush with the lower margin of said doorway, said floor having a slot extending below its surface and across said doorway; a door hinged to said partition and adapted in its closed position to overlap the margins of said doorway; and a locking structure comprising two interengaging sets of wedging locking elements one set being movable to produce engagement and disengagement, and including a wedging bar which in the engaged position lies on said slot and overlaps the adjacent edge of said door.

1,395,778. HUMIDIFIER. F BALTIS SURBECK, Lewiston, Idaho. Filed June 11, 1920. Serial No. 388,104. 2 Claims. (Cl. 131—30.)



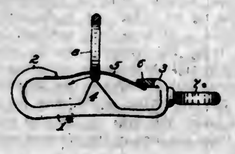
2. A humidifier comprising a sheet having its side edges turned inwardly and its lower edge turned upwardly forming a holder, the ends of the lower upturned edge being soldered to the side edges forming a trough, an absorbent pad fitting snugly between the side edges and the back of the holder and spaced from the bottom of the trough, and said plate having a laterally offset tapering water inlet formed therein for the introduction of water into the trough.

1,395,779. ELECTRIC REGULATOR. WILLIAM A. TURBAYNE, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Oct. 10, 1919. Serial No. 329,848. 8 Claims. (Cl. 171—229.)



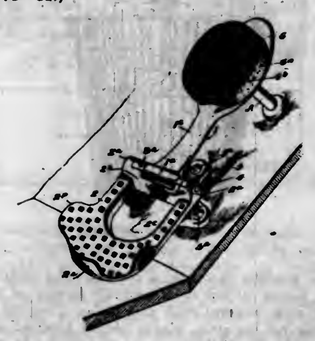
3. In an electric regulator, a compressible pile, operating means therefor located at opposite ends thereof, common electromagnetic means for controlling said operating means, one of said operating means being damped while the other is undamped.

1,395,780. SPRING-LINK. ORVILLE WHEELER, Waverly, Iowa. Filed Feb. 17, 1921. Serial No. 445,674. 3 Claims. (Cl. 24—236.)



1. A device of the character described, comprising an open link, and a flat spring fastened at one end of the link, movable inward and having its free end contacting with the inner wall of the opposite end of the link to close the opening, said link having an interior boss opposite, projecting medially against and placing said spring under tension.

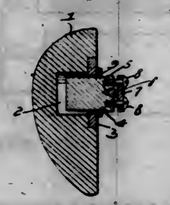
1,395,781. PEDAL FOR OPERATING ACCELERATORS OF AUTOMOBILES. ALLEN A. WILLIAMS, Cedar Rapids, Iowa, assignor to Williams Soft Pedal Company, Cedar Rapids, Iowa, a Corporation of South Dakota. Filed June 24, 1920. Serial No. 391,334. 10 Claims. (Cl. 74—81.)



2. An attachment for the purpose specified comprising a support adapted to be secured to the floor of an auto-

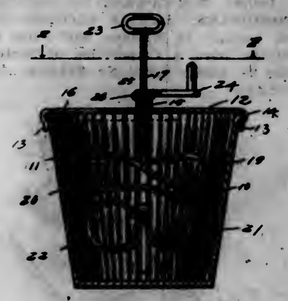
mobile adjacent the accelerator; a heel member hinged to said support; and a toe member hinged to said support so that said members can be independently raised.

1,395,782. TRUSS. Jay W. Wilson, Cleveland, Ohio. Filed Mar. 31, 1919. Serial No. 286,238. 1 Claim. (Cl. 128—124.)



A device of the kind set forth and comprising a truss pad formed with a pocket in its reverse side, the said pocket being counter-bored to form an enlarged mouth, a bearing plate seated in the enlarged mouth portion, an adjusting screw passing through and threadingly engaging the bearing plate and entering the said pocket, the adjusting screw being formed with a transversely disposed U-shaped groove on its outer end, a supporting arm resting in said groove, a plate bearing against the arm on the opposite side from the groove, screws passing loosely through the plate and threadingly engaging the adjusting screw, said screws being disposed one on each side of the arm whereby the adjusting screw may be positioned at various points under the arm of the pad adjusting member and away from the arm in the manner and for the purpose specified.

1,395,783. BUCKET CLOTHES-WASHER. Jane A. Wright, Bordentown, N. J. Filed Apr. 26, 1918. Serial No. 230,921. 2 Claims. (Cl. 259—107.)



1. In a washing machine, a receptacle, a slidable and rotatable beater within the receptacle formed of a single strand, a stem integral with and rising from the beater, a mounting for the stem, a grip formed integral with the stem at its top to facilitate depression of the beater, and means extending from the stem below the grip operable to rotate the beater.

1,395,784. DAMPER. Joseph Alexander, Chicago, Ill. Filed May 15, 1920. Serial No. 381,634. 3 Claims. (Cl. 126—295.)



1. In combination, a pipe; a damper spindle in the pipe with one end extending therefrom; a supporting plate attached to the pipe and having a bearing engaging the damper spindle; a lever attached to the damper spindle and disposed at an angle to said supporting plate; a wire loop extending around the damper spindle, lever and supporting plate; a bolt disposed through the supporting plate and lever; and a nut threaded on the bolt, the bolt and nut binding said lever against said supporting plate.

1,395,785. COMBINED WRENCH AND PIPE-TONGS. Christen Andersen, Hurup, Denmark. Filed July 28, 1919. Serial No. 313,672. 2 Claims. (Cl. 81—157.)



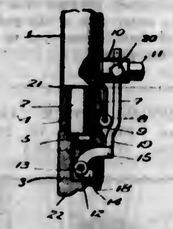
1. In a wrench of the class described, a handle, a jaw slidably mounted for movement longitudinally of the handle and having a threaded shank, a nut on said shank for adjusting the jaw as aforesaid, a second jaw slidable transversely of the handle and first mentioned jaw, a lever connected to the transversely sliding jaw for actuating the same, spring means cooperating with the lever and tending to shift the transversely sliding jaw toward the handle, and a movable section on the handle cooperating with the shank nut to hold the longitudinally sliding jaw in adjusted position, said section being shiftable to free the last mentioned jaw for movement.

1,395,786. GAME. Fred H. Andersson, Paterson, N. J. Filed Jan. 22, 1921. Serial No. 439,140. 7 Claims. (Cl. 46—59.)



1. A game, including projectiles, cylindrical means for projecting said projectiles, said means being fixedly arranged at an angle to the vertical and adapted to simultaneously project said projectiles angularly to the vertical thus allowing same to fall at a distance from said game.

1,395,787. EDGE SETTING AND BURNISHING MACHINE. Otis B. Angell, Haverhill, Mass., assignor to Hamel Shoe Machinery Company, a Corporation of Massachusetts. Filed June 6, 1918. Serial No. 238,570. 8 Claims. (Cl. 12—103.)



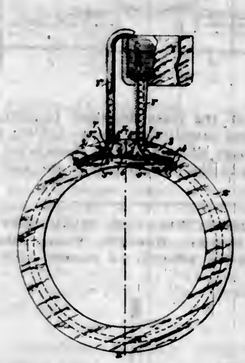
6. In an edge setting machine, in combination, an edge iron having a burnishing face, means for supporting said iron for movement under pressure of the work in a direction perpendicular to said face, a beading wheel mounted for bodily movement with respect to said iron, and means whereby movement of the iron under pressure of the work produces a corresponding relative movement of said iron and wheel.

1,395,788. TERMINAL FOR WIRES OF ELECTRIC CIRCUITS. Stanley Anthony, Boston, Mass. Filed Oct. 28, 1918. Serial No. 259,962. 3 Claims. (Cl. 173—259.)



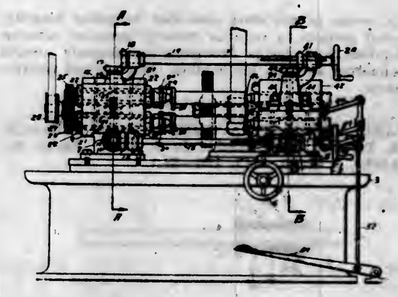
1. A screw for an electrical terminal connection, said screw having a screw threaded shank and a head, the under face of which is shaped to diverge from the plane of the peripheral portion of said head progressively from said periphery to the shank.

1,395,789. BALL-DEBURRING MACHINE. Raymond H. Bannell, Waterbury, Conn. Filed Nov. 7, 1919. Serial No. 336,511. 4 Claims. (Cl. 51—130.)



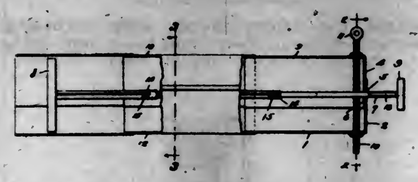
1. A ball-deburring machine comprising upright coöperative deburring members forming between them a general ball-race forming an elevated intake, one of said members having an interrupted segment; means for feeding by gravity and by way of its elevated intake spheroidal objects to and into said ball-race for deburring treatment therein; and a transfer-insert, the latter occupying said interrupted segment and affording both an intake ball-race section and a delivery ball-race section, said intake and delivery sections constituting terminal continuations of said ball-race.

1,395,790. COMPOUND GRINDING-HEAD FOR GRINDING TWO CYLINDRICAL MACHINE PARTS AT THE SAME TIME. Theis F. Bernard, Detroit, Mich., assignor to Frederick M. Ehehalt, Detroit, Mich. Filed May 17, 1920. Serial No. 382,190. 10 Claims. (Cl. 51—237.)



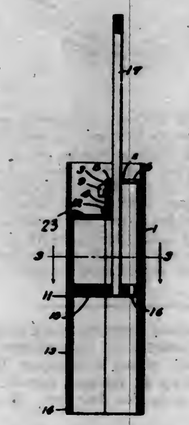
1. A compound grinding head with two pairs of work supporting spindles for holding and grinding two cylindrical machine parts at the same time, in combination with the horizontal table of the grinding machine, and the rotating grinding wheel positioned so as to simultaneously act on both the work pieces, a head stock, and a tail stock to support the spindles, a horizontal sliding plane splined to the spindle supports, a screw for making a horizontal adjustment of the same to bring the work to and from the grinding wheel.

1,395,791. CONDUCTOR FOR MINE EXPLOSIVES. ROBERT LEE BOWMAN, Knoxville, Tenn. Filed Jan. 19, 1921. Serial No. 438,416. 6 Claims. (Cl. 86—21.)



4. A device of the class described including opposed separable sections constituting charge holding means and an ejecting plunger slidable therein there being a fuse receiving opening in the plunger and in the wall of one of said sections.

1,395,792. CONDUCTOR FOR MINE EXPLOSIVES. ROBERT LEE BOWMAN, Knoxville, Tenn. Filed Jan. 19, 1921. Serial No. 438,417. 6 Claims. (Cl. 86—21.)



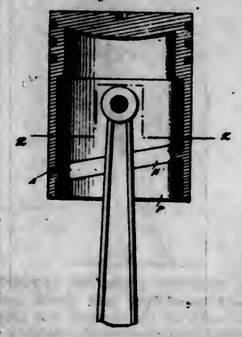
1. A device of the class described including hingedly connected sections, a follower slidably mounted between the sections, and means extending continuously around the connected sections for holding them against relative movement.

1,395,793. PENCIL ATTACHMENT. JACOB L. BROSCHART, Trenton, Mo. Filed July 8, 1920. Serial No. 394,689. 1 Claim. (Cl. 120—84.)



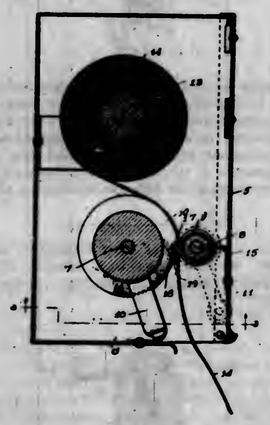
The combination with a pencil, of a rubber sleeve slidably mounted thereon, said sleeve having inwardly extending flanges adjacent its ends thereby forming an air chamber extending substantially throughout the length of the finger engaging member when said finger engaging member is disposed on a pencil, the exterior of said finger engaging member being reduced in diameter centrally and tapered outwardly toward its ends and terminating in annular outwardly extending beads, the forward end of the sleeve beyond the bead being conically shaped, the bead within the inner end of the forward end of the sleeve being outwardly spaced in relation to the annular bead extending outwardly from said end of the sleeve thereby in connection with the tapered shape of the sleeve from its central portion toward its end preventing slipping of the fingers on the sleeve.

1,395,794. ENGINE-PISTON. ZENO ARNO BRUEGGER, Boise, Idaho. Filed Feb. 2, 1920. Serial No. 355,891. 1 Claim. (Cl. 74—108.)



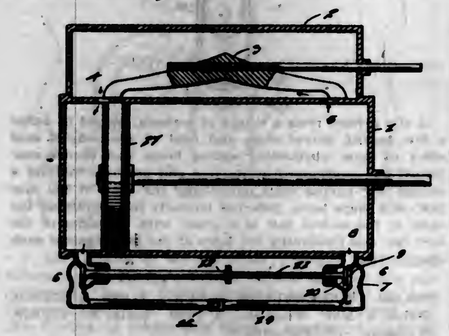
In combination, a cylinder, a piston adapted to work therein, a flange formed interiorly of the piston and extending circumferentially thereof, said flange being inclined and bent to provide a continuous channel inclined with respect to the piston and which is adapted to trap the oil as it descends along the inner walls of the piston, said piston being formed with a passage which establishes communication between the lowest point of the channel and the outer side of the piston whereby the oil trapped in the channel is conveyed to a predetermined point exteriorly of the piston.

1,395,795. DISPENSING DEVICE. ALVIN EMIL CARLSON, Nevis, Minn. Filed Oct. 19, 1920. Serial No. 417,923. 5 Claims. (Cl. 211—83.)



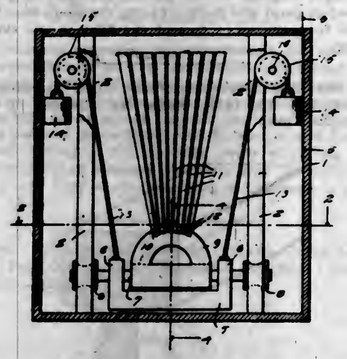
1. A dispensing device, including a pair of rotatable shafts, a drum secured to one of said shafts, means presenting a contact face forming a part of the second of said shafts, said drum being formed with a recessed portion, a spring having one of its ends attached to said drum, teeth secured to the opposite end of said drum, said teeth being adapted to lie in said recessed portion, and to engage a sheet of material interposed between said drum and contact face, the free end of said spring being adapted to swing outwardly and to cause a severance of the strip of material upon said drum being rotated to a point at which the free end is clear of the contact face.

1,395,796. AUTOMATIC CYLINDER-COCK. JAMES J. CARMICHAEL, Ridgway, Colo. Filed Jan. 28, 1916. Serial No. 74,909. 3 Claims. (Cl. 121—136.)



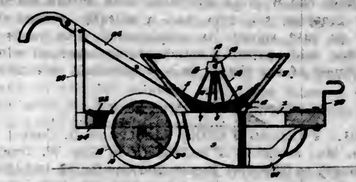
1. A cylinder cock including a pair of casings depending from a steam cylinder at opposite sides of the piston thereof, said casings having valve seats therein in close proximity to said cylinder and packing glands located at their inner sides, valves located in the casings for engaging said valve seats and having stems passing through the glands and adjustably connected, and a discharge pipe connected to said casings.

1,395,797. CLOTHES-DRYING CABINET. PATRICK J. CATELLO, Rome, N. Y., assignor of one-half to Maxwell F. Schneible, Rome, N. Y. Filed Apr. 27, 1920. Serial No. 377,005. 1 Claim. (Cl. 68—84.)



A device of the class described comprising a cabinet, a carriage therein having arms, a shaft fixed in said arms, rollers on the shaft, guide means for the rollers, flexible members secured to the arms, guide means over which the flexible members are trained, counter balances for the carriage on said flexible members, article supporting means journaled on the shaft intermediate the arms, and said article supporting means under the imposition of weight being adapted to move the carriage into binding contact with the cabinet for the purpose specified.

1,395,798. PLANTER. WILLIAM C. CATLETT, Pritchett, Tex. Filed Oct. 20, 1920. Serial No. 418,218. 1 Claim. (Cl. 221—118.)



In a seed distributing mechanism of the class described comprising a hopper provided with a false bottom therein, a curved plate having a registering discharge opening below and laterally adjustable with respect to the opening in said false bottom, a crank shaft pivoted between the sides of the said hopper, means to operate said shaft, a curved block mounted on and oscillatable with said crank shaft, agitating fingers carried by said shaft, and a plurality of resilient, agitating fingers threaded and secured in the bottom of said block and operable in the opening in said false bottom for agitating the seed and directing its continuous flow to the opening in the adjustable curved plate.

1,395,799. COMBINED BURNER STRUCTURE FOR GAS-STOVES. EMIL L. CLAUS, Milwaukee, Wis. Filed Mar. 21, 1919. Serial No. 284,103. 2 Claims. (Cl. 158—115.)



1. A structure of the class described including a main burner portion, a simmering burner portion, a torch head adapted to direct a torch for igniting gas at either the main burner or the simmering burner portion, a single valve adapted to supply gas to either the main burner or the simmering burner, and means for supplying the torch head with torch flow of gas upon supply of gas to either burner portion.

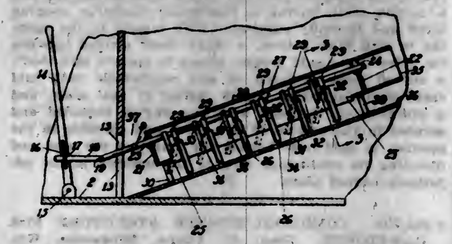
1,395,800. WRENCH. EDWIN W. COCHRAN, Catawba, N. C. Filed May 24, 1921. Serial No. 472,120. 1 Claim. (Cl. 81—163.)



A wrench having a shank provided at one end with a grip portion and at the other end with an enlarged head

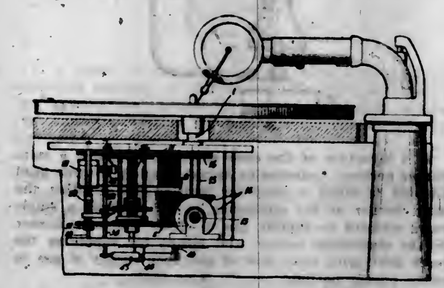
having a longitudinal guide channel, jars having contacting slides fitted in said guide channel, an operating spindle arranged in a longitudinal slot in the shank and provided at its inner end with an operating head within reach of a hand grasping the grip, and a spirally webbed disk carried by said spindle in engagement with racks on said slides, said operating spindle being arranged within the thickness of the shank, in a longitudinal slot formed therein.

1,395,801. FUEL-AGITATOR. ADOLPHUS H. CORUM, St. Louis, Mo., assignor of one-fourth to Guy W. Dunlap, one-fourth to Theodore Boyce, and one-fourth to Lilburn J. Dunlap, St. Louis, Mo. Filed June 24, 1921. Serial No. 480,100. 3 Claims. (Cl. 259—39.)



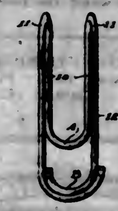
1. The combination of a runway, braces fastened thereto and projecting therefrom, a casing borne by the said braces, the said casing having bearings in its ends, an operating rod slidable in the said bearings, and means for actuating the said rod, the said casing and operating rod being located adjacent to the wall of a coal bunker and there being an opening through the said wall leading to the shoveling floor.

1,395,802. REWIND DEVICE FOR PHONOGRAPHS. JOSEPH HUNTER DICKINSON, Cranford, and LOUIS GREINER COLLYER, Upper Montclair, N. J., assignors to The Aeolian Company, a Corporation of Connecticut. Filed June 23, 1916. Serial No. 105,410. 13 Claims. (Cl. 185—40.)



3. In combination with the spring-motor of a phonograph, an electric motor connected to wind said spring motor; switch-means comprising electrical contacts in circuit with the electric motor; nut and screw means operatively related to each other and to the spring-motor for causing one of their members to travel in different directions consequent upon the winding and unwinding respectively of said motor; said member, after traveling a given distance upon the winding of the spring motor, being arranged to operate the switch means in contact-opening direction, and after traveling a given distance upon the unwinding of the spring motor, to partially operate the switch-means in contact closing direction; and an automatic brake for said spring-motor which is normally released but which is applied by the aforesaid traveling member after it has traveled beyond the position wherein it operates the switch-means in contact-closing direction.

1,395,803. PAPER-CLIP. JOHN T. DU BOIS and FRANK B. HASTER, Detroit, Mich. Filed Sept. 20, 1920. Serial No. 411,627. 1 Claim. (Cl. 24—261.)



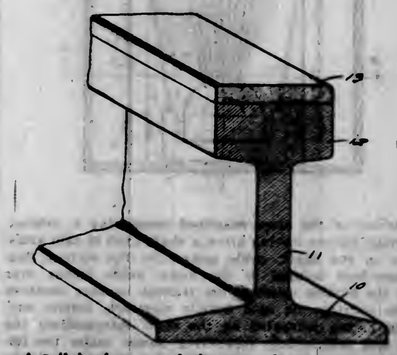
A clip formed from a length of material looped to define a jaw having spaced sides and bent at the ends of said sides to form upstanding spring loops and thence continued and overlapped at its free end portions to form a second jaw having sides paralleling the sides of the first jaw, said loops being deflected laterally for sustaining the sides of the second jaw in a plane with the sides of the first jaw and tensioning the sides of the jaws against each other.

1,395,804. HEEL-FILLER BLOCK. JAMES E. EMOND, Belen, N. Mex. Filed Dec. 2, 1920. Serial No. 427,828. 3 Claims. (Cl. 238—165.)



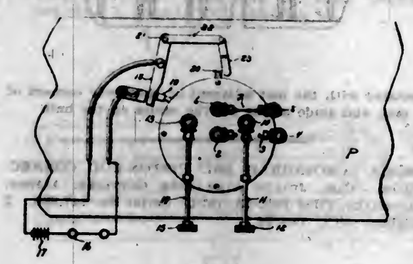
3. In a track construction the combination of a main line rail, a lead rail and switch point having abutting ends and running in the same plane parallel to the main line rail and filler secured to the lead rail and switch point and unattached to the main rail; said block having rounded corners adapted to rest against the webs of the rails and switch point and further having chambers therein that extend from the upper face of the filler to one side wall thereof.

1,395,805. RAIL. RUDOLPH FRIEDLMANN, Cleveland, Ohio. Filed Sept. 16, 1919. Serial No. 324,060. 1 Claim. (Cl. 238—148.)



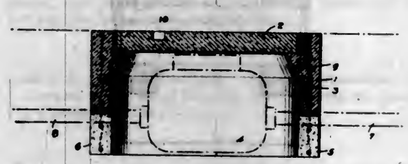
A rail having a surfacing cap of greater resistance to wear than the body of the rail itself, said cap being substantially of the same width as the tread portion of the rail with the base of the cap substantially parallel with the base of the rail and the upper surface of the cap, whereby the cap is reversible for application to the rail, and said cap being applicable to the rail and rolled thereon while the rail and cap are at a welding temperature.

1,395,806. TIME-CONTROLLED LIGHTING SYSTEM. FRED H. FINKE, Milwaukee, Wis. Filed June 9, 1921. Serial No. 476,170. 2 Claims. (Cl. 200—35.)



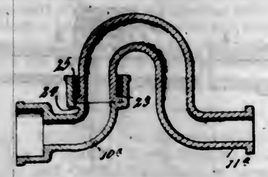
1. In a device of the character described, an electric switch, a clock having an alarm hammer operable at a predetermined time to deliver blows on said switch to close the same, and a lever connected with the switch and operable thereby, to render said hammer inoperative after the switch has been closed.

1,395,807. WATER-METER BOX. NATALE FORNI, Santa Rosa, Calif. Filed Jan. 4, 1921. Serial No. 435,041. 1 Claim. (Cl. 72—9.)



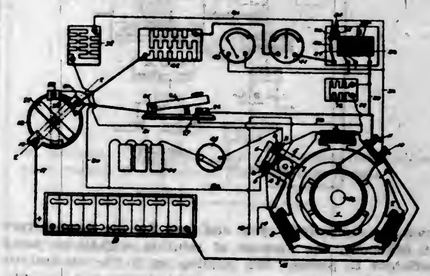
A water meter protecting box comprising a concrete casing, a substantially annular continuous reinforcing metallic member embedded in said casing, said casing having an annular flange extending inwardly near the upper end, a pair of pipe receiving notches near the lower end, and a covering plate of concrete adapted to rest on said flange, said plate having a tool receiving notch extending partially therethrough whereby the plate may be bodily removed at any time while presenting continuously a solid cover.

1,395,808. PIPE-JOINT. EUGENE FORBES, Budd Lake, N. J. Filed Oct. 20, 1919. Serial No. 332,055. 1 Claim. (Cl. 285—203.)



A coupling comprising one right angular tubular member having a short end and a long end, a relatively deep cylindrical socket of corresponding dimensions formed at the extremity of each end portion, a second tubular member having a semi-circular bend at one end and a right angular bend at its other end, a flange at each extremity of the second member, either adapted to fit in either socket, whereby when the semi-circular terminal of the second member is inserted in the socket of the short end of the first member the other terminals may be in alinement and capable of relative rotation, and rings inserted in said socket after the flanged terminal is inserted to form a packing and hold the members together.

1,395,809. STARTING AND IGNITION SYSTEM. URIAH D. GARVER, Philadelphia, Pa., assignor to G. J. BÜCHLER, Philadelphia, Pa. Filed May 22, 1918. Serial No. 235,923. 9 Claims. (Cl. 290—33.)



1. The combination of a dynamo electric machine; an ignition generator; a storage battery; and automatic means for connecting the storage battery in circuit with the field winding of the ignition generator when the voltage of the dynamo electric machine falls below a predetermined point.

1,395,810. SIGHT-ARM ATTACHMENT FOR EXCAVATING-MACHINES. CHARLES L. GEORGE, Findlay, Ohio, assignor to The Buckeye Traction Ditcher Company, Findlay, Ohio, a Corporation of Ohio. Filed Oct. 14, 1920. Serial No. 416,853. 4 Claims. (Cl. 33—185.)

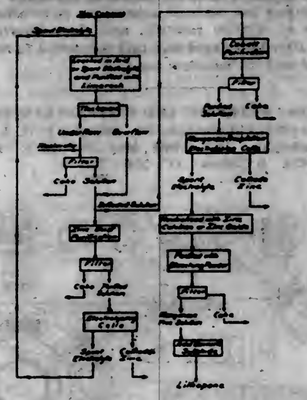


1. In an excavating machine, a truck frame, a bucket chain carrying boom pivotally projecting from the truck frame, for vertical swinging adjustment, a sight-arm carrying frame pivotally projecting over the boom longitudinally thereof for vertical swinging adjustment to vary the angle between the two, a sight arm carried by the sight arm carrying frame, and adjustable means connecting the sight arm carrying frame and boom for adjustably maintaining them in predetermined fixed relation.

1,395,811. TREATMENT OF ZINC-BEARING ORES. HERBERT WILLIAM GEPP, Melbourne, Victoria, Australia, assignor to Electrolytic Zinc Company of Australasia Proprietary Limited, Melbourne, Australia. Filed Nov. 7, 1919. Serial No. 336,452. 6 Claims. (Cl. 204—18.)

1. An improved process for the treatment of zinc bearing ores consisting in the combination with electrolytic

treatment for the recovery of metallic zinc in which the ores are leached with acid solutions (spent electrolyte) and the resultant zinc bearing solution subjected to electrolysis the spent electrolyte then being used cyclically to leach another batch of ore, of a method for the treatment of zinc bearing solutions removed from time to time



from the electrolytic cycle and used for the manufacture of lithopone, the amount of solution withdrawn being sufficient to prevent the building up in the electrolytic cycle of impurities beyond workable limits and also permitting the washing of the leached residues without increasing the volume of the electrolyte.

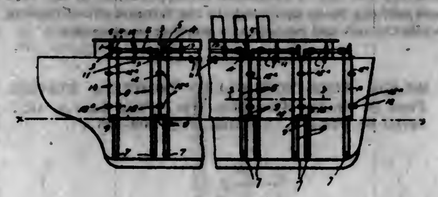
1,395,812. MULTIPLE LOOKING-GLASS. Edward V. Gerber, Leavenworth, Kans. Filed Mar. 12, 1921. Serial No. 451,695. 3 Claims. (Cl. 45—98.)



1. A multiple looking glass having a standard, a main or primary mirror having a universal mounting upon said standard, arched crane arms swiveled upon the standard and extending over the main or primary mirror, and supplemental or secondary mirrors universally mounted upon the extremities of said crane arms.

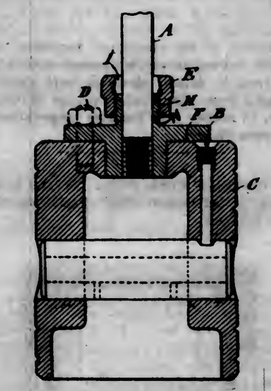
1,395,813. SHIP-PROTECTOR. Francesco Gregoianne, San Antonio, Tex. Filed Sept. 4, 1918. Serial No. 252,653. 1 Claim. (Cl. 114—220.)

A ship having a mat for disposition over the exterior of its hull, a latch to secure the mat adjacent to the deck, a winding drum on the deck, guide means for the mat, cables associated with the drum, said cables also being



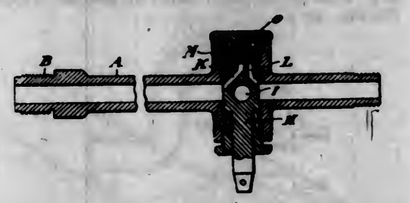
associated with the mat adjacent of the lower corners of the mat, and guide means for the cables on the hull.

1,395,814. CROSSHEAD AND PISTON-ROD CONNECTION. Carl Julius Alexander Gottlieb, Aarhus, Denmark. Filed Feb. 23, 1921. Serial No. 447,295. 2 Claims. (Cl. 74—84.)



1. Crosshead and piston-rod connection, characterised by a cross head, a connection piece fixed to said cross head and having a partially threaded, partially smooth bore for the piston-rod and provided with a slotted end in continuance of said bore, and a check-nut which when screwed on the connection-piece over its slotted end secures a firm grip on the rod.

1,395,815. LUBRICATING DEVICE FOR STUFFING-BOXES. Carl Julius Alexander Gottlieb, Aarhus, Denmark. Filed Feb. 23, 1921. Serial No. 447,296. 1 Claim. (Cl. 184—28.)



In a lubricating device for stuffing boxes, a tube adapted for connection with a stuffing-box and normally in free

communication with an oil cup for the feed of the lubricant, a cock dividing said tube into a supply and delivery side, a reciprocatory pump piston fitted in the supply side of said tube and normally held in the rear of the oil-supply opening, and a cock having a bore for ordinary gravity feed and force feed bores, and a spring-actuated valve normally closing said force feed bores when the cock is turned to close the gravity feed bore.

1,395,816. STATION-INDICATOR. Charles M. Gravatt, Port Royal, Va. Filed Mar. 24, 1920. Serial No. 368,471. 5 Claims. (Cl. 40—53.)



2. A station indicator, comprising a casing, a pair of reels in the casing, a curtain wound at its ends on the reels and movable from one reel to the other, gear wheels on the reels, a slidable and cushioned gear frame in the casing, pinions on the gear frame, means for sliding the frame to bring the pinions thereon into engagement with the respective gears of the reels, an electric motor, and a gear train on said frame operatively connecting the motor with said pinions.

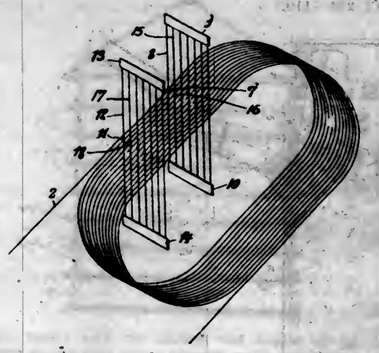
1,395,817. TOBACCO-PIPE. Herbert Gregson, Weehawken, N. J. Filed Nov. 22, 1919. Serial No. 340,055. 2 Claims. (Cl. 131—12.)



1. In a tobacco pipe, a bowl provided at its base with a centrally disposed protuberant solid member forming with the wall of the bowl an annular draft chamber from which leads a bore connected with the pipe stem, the said bore opening into one side of the said annular draft chamber above the bottom thereof and a distance below the top of the said protuberant member.

1,395,818. METHOD OF HEDDLING AND WARPING. William F. Gruhn, North Bergen, N. J., assignor to Endless Belt Corporation, Inc., a Corporation of New York. Filed Feb. 15, 1918. Serial No. 217,331. 7 Claims. (Cl. 139—94.)

1. The method of heddling and warping in, comprising positioning a warp thread and forming an initial portion of a heddle, and thereafter adding the remaining portion



or portions of the heddle while inclosing the positioned warp thread in the eye of the resulting heddle.

1,395,819. LAMP SHADE AND TESTER. Virgil A. Guy, Englewood, Colo. Filed June 4, 1920. Serial No. 386,458. 7 Claims. (Cl. 175—183.)

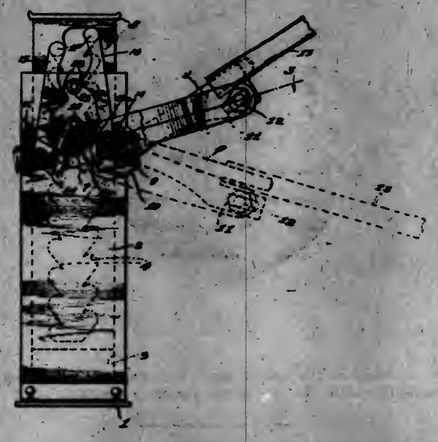


1. A device of the character described comprising a lamp shade having means for embracing a lamp socket member for electrical connection with one terminal of the lamp, and means on said shade in electrical connection therewith for supporting the shade and for engaging conductors of electrical circuits for testing same.

1,395,820. DEZINCING LEAD. Henry Harris, London, England. Filed Jan. 29, 1920. Serial No. 354,851. 3 Claims. (Cl. 75—15.)

1. In the process of desincing lead, heating the molten lead with a molten mixture of an alkali chlorid and a substance or substances which lower the melting point of the alkali chlorid.

1,395,821. LIFTING-JACK. William N. Hanson, Attica, Mich., assignor of one-third to Harry H. Palmer and one-third to Lewis T. Dennis, Imlay City, Mich. Filed Jan. 20, 1921. Serial No. 438,727. 3 Claims. (Cl. 254—110.)



1. A lifting jack comprising a frame, a load carrying member vertically adjustable upon said frame, a pair of racks arranged in opposed spaced relation upon said load-carrying member, a lever pivoted upon said frame for actuating the load-carrying member vertically, pawls carried by said lever respectively engageable with said racks, a pair of divergent trigger members arranged between the pivotal ends of said pawls, and bearing thereupon, and a spring interposed between said trigger members and acting through the same upon the pawls to urge the same into engagement with their respective racks.

1,395,822. LENS SYSTEM FOR TERRESTRIAL TELESCOPES. Charles S. Hastings, New Haven, Conn. Filed July 10, 1920. Serial No. 395,287. 9 Claims. (Cl. 88—32.)



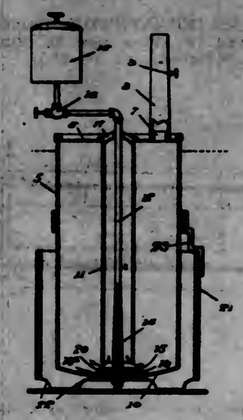
1. An optical system for telescopes consisting solely of a complex objective of negative focal length and a complex ocular of positive focal length, the said objective and the said ocular being composed of units of positive focal length only.

1,395,823. TOOL FOR SCRAPING CYLINDRICAL SURFACES. Rose D. Heacox, Washington, D. C. Filed Mar. 16, 1921. Serial No. 452,868. 4 Claims. (Cl. 145—47.)



1. In a tool for scraping cylindrical surfaces, a holder, a scraper blade having an arcuate cutting edge and means for bending said scraper blade to vary the effective arc of the cutting edge with respect to the general plane of the blade in the holder and the holder.

1,395,824. OIL-BURNER. William Hommel, Albert Lea, Minn., assignor of one-half to Abe Hirsch, Albert Lea, Minn. Filed Oct. 9, 1920. Serial No. 415,628. 7 Claims. (Cl. 158—91.)



1. An oil burner comprising a depending air supply pipe, disks disposed across the lower discharge end of said pipe and arranged for the flow of fuel between them to the edges thereof, said disks being spaced from the pipe for the radial flow of air past the edges of the disks, and means for supplying fuel between said disks.

1,395,825. CLAMPING DEVICE. Peter A. Hoffman, Hastings, Minn. Filed Feb. 18, 1921. Serial No. 446,167. 5 Claims. (Cl. 45—54.)

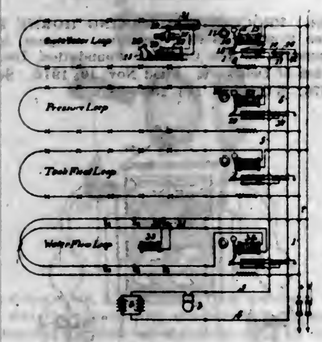


3. A clamping device comprising a pair of blocks adapted to be placed on a suitable support and to grip articles therebetween, a sheet of flexible material extending along the support between the blocks, a drum in each block over which the end of the flexible material is wound, and means coöperating with the drums constantly tending to wind the material thereon whereby the blocks are under a constant tendency to move toward each other.

1,395,826. SUPERVISORY SIGNALING SYSTEM. Richard M. Hopkins, Rutherford, N. J., assignor to American District Telegraph Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 18, 1918. Serial No. 223,146. 2 Claims. (Cl. 177—352.)

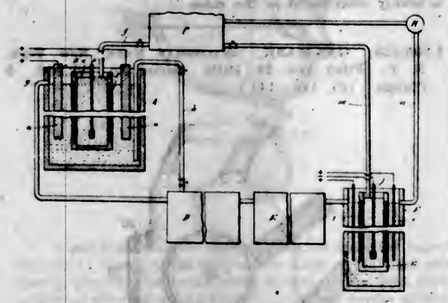
1. In a supervisory signaling system, the combination of a signal and a circuit therefor; a normally closed supervisory circuit including an electroresponsive device provided with switching contacts having a normal position and a position of change, a manually controlled

switch and connections between the switch and said contacts whereby the latter may be cut into and out of the



signal circuit in both said positions, a circuit closer in said supervisory circuit and a supervised device controlling said circuit closer.

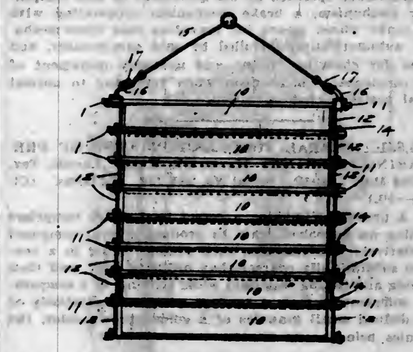
1,395,827. SEPARATING METALS BY ELECTROLYSIS. Noak Victor Hybinette, Christiania, Norway. Filed Feb. 16, 1920. Serial No. 358,969. 15 Claims. (Cl. 204—97.)



1. The process of plating metals upon a cathode which is separated from the anode by a filtering diaphragm, which comprises effecting a flow from the cathode to the anode of an electrolyte which enters the cathode compartment with an excess of free sulfuric acid beyond the amount to be tolerated at the depositing surfaces of the cathode; substantially as described.

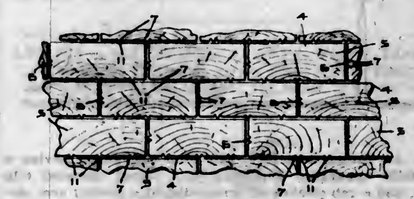
1,395,828. SEWER-REFILLING TRAY. Benedict D. Jacovett, Lorain, Ohio. Filed Apr. 18, 1921. Serial No. 462,367. 3 Claims. (Cl. 296—30.)

1. A refilling tray having a plurality of plates maintained in load-retaining relation by contact with the ground, and means mounting the plates for relative movement to discharge the load through disengagement



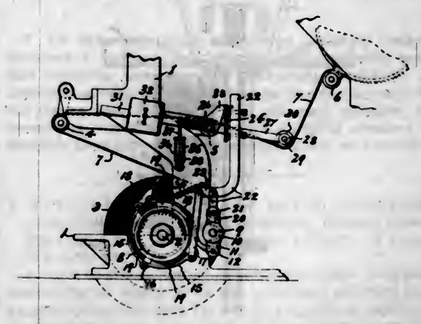
of the plates with the ground and weight of the load thereon as the tray spans opposed walls of a trench.

1,395,829. WOOD-BLOCK PAVEMENT. Harry G. Jennison, Toledo, Ohio. Filed July 23, 1919. Serial No. 312,851. 9 Claims. (Cl. 94—14.)



1. A rigid grain up wood paving block having on two vertical sides thereof integral V-shaped lugs continuous with adjoining V-shaped grooves, forming a W in cross-section with a high central apex, the grooves on one of the faces of the blocks intercepting the arching portion of longer arc age rings on the blocks.

1,395,830. AUTOMATIC TENSION-CONTROLLING MECHANISM. Thomas J. Jones, Jersey City, N. J. Filed Feb. 26, 1920. Serial No. 361,424. 9 Claims. (Cl. 242—75.)



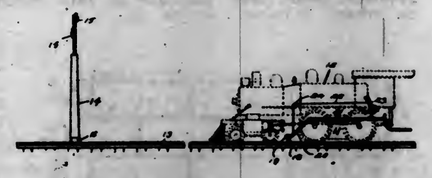
7. In a device of the kind described, a rotatable web roll supporting spindle having a brake wheel, a pivoted

oscillatable tension compensator mechanism under which the running web extending from said web roll is engaged, a cam-member operated by the movement of said compensator mechanism, a brake mechanism coöperating with said brake wheel, means for operating said brake mechanism automatically controlled by said cam-member, and means for checking violent and unsteady movement of said compensator mechanism when returning to normal initial position after operation.

1,395,831. CEREAL FOOD AND PROCESS OF PREPARING THE SAME. MARTHA R. KELLY, Laredo, Tex. Filed Mar. 7, 1919. Serial No. 281,224. 3 Claims. (Cl. 99—10.)

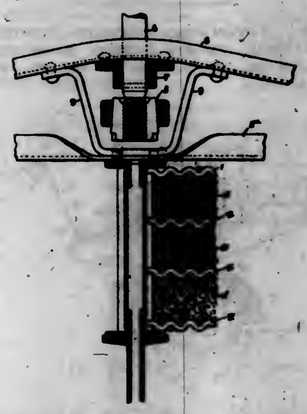
1. A process of making a cereal food which comprises grinding an uncooked grain to produce a meal composed of relatively fine granules, such product being in a condition substantially coarser than ordinary flour, and then roasting and baking this meal while stirring, at a temperature sufficient to form a product composed essentially of well defined small granules of a golden brown color, the granules being easily friable.

1,395,832. AUTOMATIC SAFETY TRAIN-STOP MECHANISM. ARTHUR R. KILBURN, Whitehall, Wash. Filed Mar. 1, 1921. Serial No. 448,762. 3 Claims. (Cl. 246—182.)



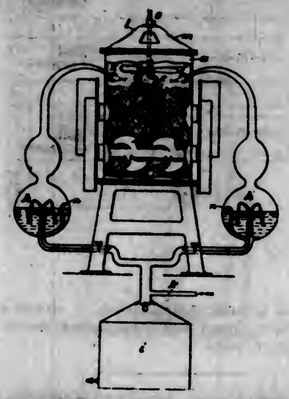
1. An automatic safety train stop mechanism having a roadside apparatus consisting of a signal operated trip arm, and a cab mechanism consisting of a pivotal arm carried by and in communication with the train pipe and provided with an angle cock having a lever normally held in engaging relation with the trip arm.

1,395,833. FILTERING-MAT. FRED H. KLING, Youngstown, and LUTHER B. WEIDLEIN, Cleveland, Ohio. Filed Mar. 11, 1920. Serial No. 364,966. 5 Claims. (Cl. 183—45.)



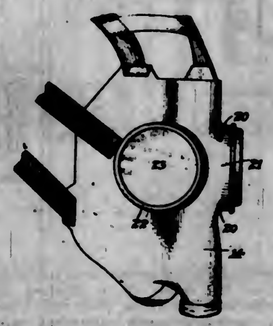
1. In apparatus for cleaning gases, a composite gas filter comprising a frame and a plurality of metallic wool mats in said frame, said mats being supported in intimate relation with each other and the mat adjacent the gas inlet being of the least density, and additional supports extending through all of the mats and arranged to transmit vibrations thereto.

1,395,834. PROCESS FOR MAKING HORNY BODIES. ALFRED KOSTERS, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Nov. 10, 1916. Serial No. 130,676. 5 Claims. (Cl. 106—38.)



1. An improvement in the manufacture of horny bodies from powdered albuminous substances which comprises agitating the powdered albuminous mass introducing vaporous water, scraping the upper layer of the agitated mass, and whirling said upper layer above the main body of the substance until a determined content of moisture is evenly distributed in the mass.

1,395,835. GAS-MASK. WALDEMAR KOPS, New York, N. Y. Filed Apr. 24, 1919. Serial No. 292,266. 5 Claims. (Cl. 128—141.)



1. In a gas mask, a hood of flexible material having an eye opening therein of predetermined configuration, and an eye piece having a flange of a configuration differing from that of the eye piece opening in the hood and adapted to be inserted in said opening so that the edge portions of the hood defining the opening are placed under different tensions when the eye piece is inserted in the opening, whereby those portions of the hood adjacent the eye piece are caused to automatically stand outwardly from the hood when the eye piece is secured in position therein.

1,395,836. GAS-MASK. WALDEMAR KOPS, New York, N. Y. Filed Apr. 24, 1919. Serial No. 292,267. 3 Claims. (Cl. 128—141.)



1. In a gas mask, a hood made from a unitary blank of flexible material by uniting symmetrically shaped oppositely disposed portions of the lower edge of the blank by a single joint.

1,395,837. GAS-MASK. WALDEMAR KOPS, New York, N. Y. Filed Apr. 25, 1919. Serial No. 292,646. 3 Claims. (Cl. 128—141.)

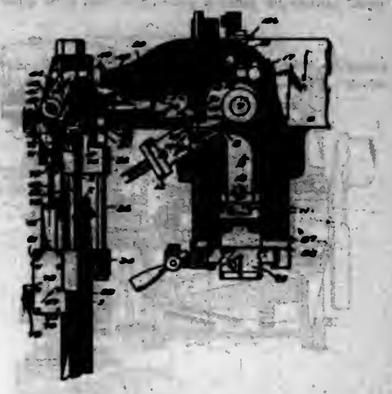


1. A gas mask made of blanks of flexible material, superimposed to reinforce the body of the hood of the mask and thereby prevent the entire front section of the hood from collapsing when in use and also to provide a border section which is sufficiently yielding to permit a gas tight fit to be made between the same and the head of the wearer, the said blanks being provided with symmetrically placed incisions in the edges thereof which are connected by a suitable joint to completely form the hood of the mask.

1,395,838. HEEL-NAILING MACHINE. JOHN T. LANCASTER, Haverhill, Mass., assignor to Hamel Shoe Machinery Company, a Corporation of Massachusetts. Filed May 6, 1918. Serial No. 232,689. 24 Claims. (Cl. 1—35.)

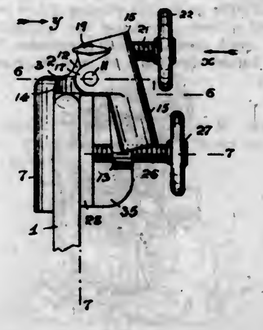
1. In a heel nailing machine, in combination, an oscillatable turret, mechanism constructed and arranged automatically to swing said turret from one operative position to another, and means under control of the operator for intermitting the operation of said mechanism while the machine is in operation.

9. In a heel nailing machine having a reciprocable screw head and a turret mounted thereon, means for turning said



turret comprising a slidable rod, and a retractable bolt normally projected across the path of said rod for limiting the sliding movement thereof.

1,395,839. ADJUSTABLE CLAMP. FRANK LANTIERI and GABRIEL LANTIERI, Jersey City, N. Y. Filed Apr. 28, 1921. Serial No. 465,154. 13 Claims. (Cl. 155—177.)

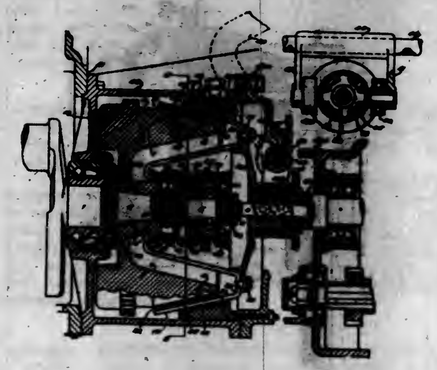


1. An adjustable clamp comprising a pair of clamping members, a carrier-means pivotally connected with one of said clamping members, and mechanism carried by and coöperating with said carrier-means for moving said carrier-means with relation to said clamping members, said means also coöperating with said clamping members for bringing them into a fixed clamping relation with an object.

1,395,840. CLUTCH AND BRAKE MECHANISM. ALPHONSE JOSEPH LAVOIE, Montreal, Quebec, Canada. Filed Aug. 14, 1919. Serial No. 317,627. 3 Claims. (Cl. 192—18.)

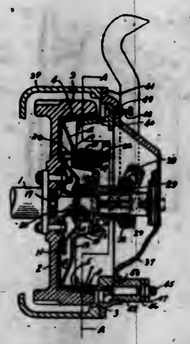
1. In a gasolene engine, a clutch and brake mechanism comprising an engine shaft and a flywheel mounted thereon, and extending from its hub in projections, walling in an annular spring recess and forming clutch surfaces, a transmission shaft, a cupped brake and clutch member encircling said hub and spring-held to its engagement and

finally supported from said transmission shaft and forming a receptacle for said projection between the clutch and



brake shoe portion and recess wall, a brake ring encircling the brake shoe portion and means for operating said brake and clutch member.

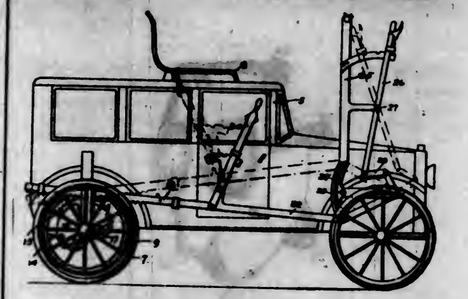
1,395,841. CLUTCH AND BRAKE MECHANISM. ALPHONSE JOSEPH LAVOIE, Montreal, Quebec, Canada. Filed Nov. 29, 1919. Serial No. 341,537. 9 Claims. (Cl. 192—18.)



1. In a clutch and brake mechanism, a driving shaft, a wheel mounted thereon having a projecting rim, a driven shaft, a brake member in proximity to the inner surface of said projecting rim and rigidly and adjustably secured, an operating sleeve keyed to said driven shaft, a clutch member spring-held to engagement with the inner surface of said rim, and a lever operatively connected with said sleeve for releasing said clutch member and applying it to said brake member.

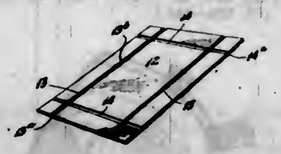
1,395,842. TOY VEHICLE. HORACE JOHN LEACH, Mount Carmel, Ill. Filed Feb. 9, 1921. Serial No. 443,669. 4 Claims. (Cl. 206—37.)

1. A toy vehicle, including an axle, an annular ratchet secured to said axle, a pair of segmental members rotatably secured to said axle, pawls carried by one of said members, means carried by the second of said members for effecting a disengagement of either of said pawls from



said ratchet, said segmental members being formed with teeth, and bars also formed with a serrated portion adapted to engage said teeth.

1,395,843. METHOD OF MAKING CIGAR-BOXES. HENRY LEIMAN, Tampa, Fla. Filed Jan. 14, 1920. Serial No. 351,293. 6 Claims. (Cl. 217—2.)



1. The method of making a lined box which consists in cementing a lining material to a slab, cutting crossing grooves through the lining material and in the slab from edge to edge, severing the corner pieces lying within the angles formed by end portions of the crossing grooves, bending the blank thus formed along the grooves until the end edges of the side walls meet and securing the side walls together.

1,395,844. DIAL-LOCK. ROLLIN C. LEWIS, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Mar. 25, 1921. Serial No. 455,465. 4 Claims. (Cl. 70—53.)

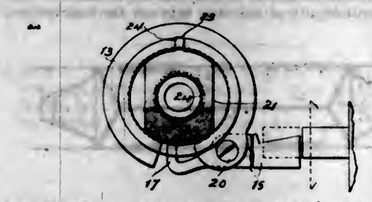


1. In a dial lock, the combination of a spindle, tumblers and a driving cam for the tumblers, the spindle and cam having interlocking connections whereby the cam will be rotated by the spindle, but will be disconnected therefrom when the spindle is forced inwardly.

1,395,845. DIAL-LOCK. ROLLIN C. LEWIS, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Apr. 5, 1921. Serial No. 458,690. 6 Claims. (Cl. 70—53.)

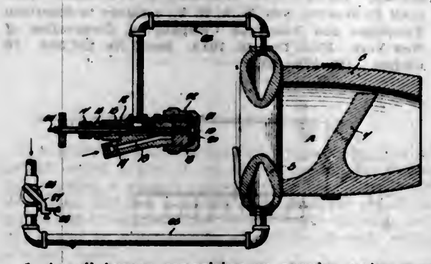
1. In a lock, the combination of a spindle, a tumbler actuated by the same, a fence coöperating with the tumbler

to dog and to release the bolt and means normally held out of the path of movement of the fence, but adapted to



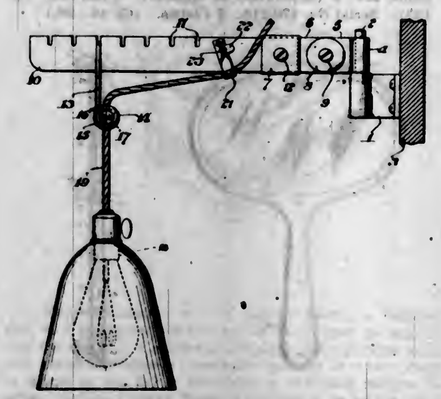
be positively moved into position to obstruct the unlocking movement of the fence if the tumbler be moved from its normal position with relation to the fence.

1,395,846. LIQUID-FUEL BURNER. JOHN D. LORD, Winthrop, Mass. Filed Sept. 16, 1919. Serial No. 324,107. 7 Claims. (Cl. 158—75.)



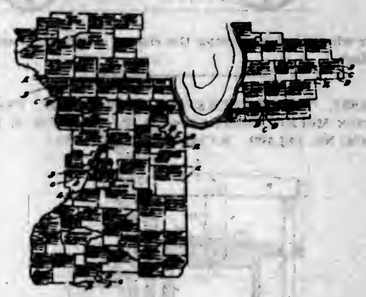
1. An oil burner comprising an annular water vapor generating chamber, means for supplying water thereto, a cylindrical combustion chamber at one side of said generating chamber, and a nozzle at the other side of the generating chamber, in communication with said generating chamber and having a fuel inlet port whereby said fuel and water vapor are mixed together, said nozzle being so disposed as to discharge said mixture through the space inclosed by said annular generating chamber into the combustion chamber.

1,395,847. ADJUSTABLE LAMP-SUPPORT. WILLIAM LORRY, Philadelphia, Pa. Filed May 25, 1920. Serial No. 384,193. 2 Claims. (Cl. 248—8.)



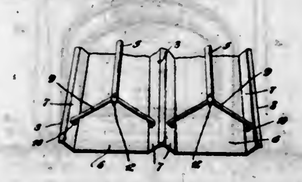
1. A lamp support comprising an arm having transverse axes about which it is adjustable, a hanger adapted to be supported by said arm in adjustable relation thereto, said hanger having bearings, and a clamp having trunnions journaled in said bearings, said clamp adapted for engaging a lamp cord and supporting a lamp depending therefrom.

1,395,848. TERRITORIAL BUSINESS-CHART. GEORGE M. LUDLOW, Chicago, Ill. Filed Mar. 10, 1920. Serial No. 364,624. 1 Claim. (Cl. 283—1.)



A territorial business chart, comprising a graphic representation of territory corresponding to an allotted general field of business activity, and comprising spaces corresponding to subdivisions of such territory; said chart having within each subdivision space data indicative of business possibilities within the subdivision of territory represented by such space, and data indicative of business actually done in said subdivision; the last-named data being in terms which permits pro-rating with the data of business possibilities and being expressed in two factors, one of which represents total business done, while the other represents business of a present limited period of time.

1,395,849. CHICKEN-ROOST. JAMES W. MCCOY, Detroit, Mich. Filed Apr. 10, 1920. Serial No. 372,774. 2 Claims. (Cl. 119—22.)

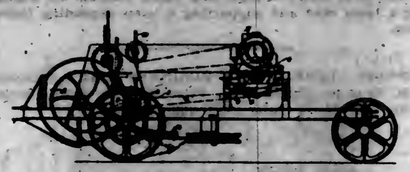


1. A device of the character described, comprising a substantially trough-shaped tray having angular sides and open at opposite ends, a perch above said tray, arched brackets detachably secured to the sides of the tray and also detachably secured to the ends of the perch to support the latter elevated from the tray and intermediate of the sides thereof, the tray being of greater length than the perch, and flanges formed at the free longitudinal edges of the sides of the tray to permit the overlapping of adjacent trays.

1,395,850. CABLE-RECIPROCATING APPARATUS. HENRY MCLAREN, Leeds, England, assignor of one-half to J. & H. McLaren, Limited, Leeds, England. Filed May 10, 1920. Serial No. 380,800. 3 Claims. (Cl. 254—147.)

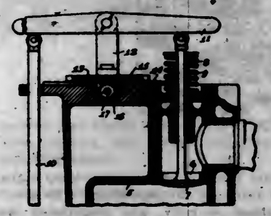
1. The combination, with cultivating apparatus having

a pair of spaced motor-windlasses each driven by an independent motor, of means actuated by the engine of one



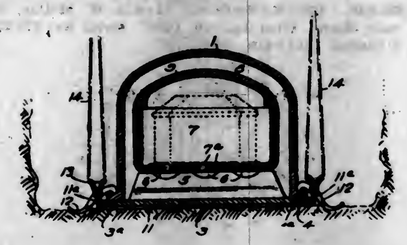
motor-windlass for starting the engine of the other motor-windlass.

1,395,851. VALVE-OPERATING MECHANISM. FRANCIS BYRON MCLEAN, Ocean Grove, N. J. Filed Feb. 8, 1921. Serial No. 442,409. 6 Claims. (Cl. 123—90.)



2. A valve operating mechanism, including a cylinder having ports, valves for controlling said ports, and tappets, of a plate transversely movable mounted upon said cylinder and rocker arms secured to said plate and extending between said tappet and valve.

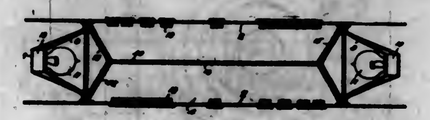
1,395,862. MAUSOLEUM. WILLIAM MCMEANS, West Liberty, Iowa. Filed Apr. 13, 1920. Serial No. 373,468. 2 Claims. (Cl. 72—7.)



1. A device of the type described, including an outer inclosure, a bottom member having a recess therein adapted to receive the lower edge of said outer inclosure, a plate or bar having upwardly extending terminals having apertures, and levers pivoted to said terminals, said levers having eye-ended terminals to receive together with the apertures of the terminals of said bar cables for lowering the outer inclosure in position, a terminal of said levers adapted to bear upon the surface of the ground as the outer inclosure is lowered into position upon the inner inclosure.

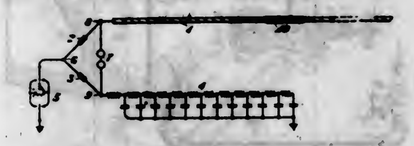
1,395,863. SIGN. HARRY H. MARRIOTT, Okmulgee, Okla. Filed Jan. 30, 1919. Serial No. 273,976. 1 Claim. (Cl. 40—133.)

In a device of the class described, a case provided on its sides with openings defining inscriptions; inwardly bulged transparent diffusion members extended across the case adjacent to the ends thereof; lamps disposed outwardly of the diffusion members; and a foraminous partition disposed longitudinally of the case, between the inscriptions,



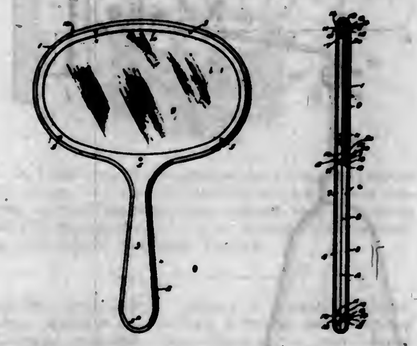
and extended inwardly from the crown of one diffusion member to the crown of the other diffusion member, the partition serving to distribute and diffuse the light, but preventing the inscription on either side of the case from being visible at the other ede of the case.

1,395,854. BALANCING SIGNALING SYSTEMS. WILLIAM H. MARTIN, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 19, 1918. Serial No. 267,516. 10 Claims. (Cl. 178—63.)



1. The method of overcoming the effects of cable irregularities on the balance of a circuit involving the use of a balancing line which consists in determining the location of the irregularities in the cable, as well as their character and magnitude, and introducing irregularities of like character and magnitude into the balancing line at points therein whose electrical distances from the end at which the balance is to be produced, represent the distances of the respective irregularities from the same end of the cable.

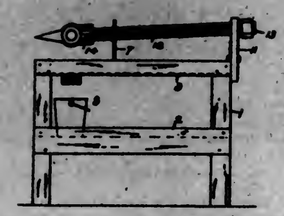
1,395,855. MIRROR-HOLDER. RUDOLPH MARTINI, St. Louis, Mo., assignor to Kahn Mirror Plate Company, St. Louis, Mo., a Corporation of Missouri. Filed May 16, 1921. Serial No. 470,216. 7 Claims. (Cl. 45—98.)



1. The combination of front and back members, each having a flange projecting toward the other and forming

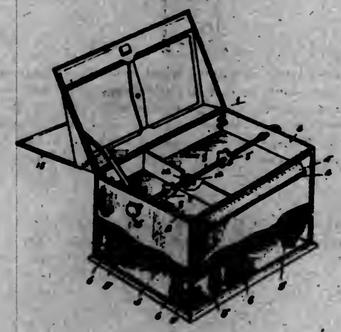
a joint and a plurality of rivets attaching the said members together, the said rivets each having an intermediate head and a stud on each side of the said head adapted to be upset to unite the said two members together.

1,395,856. BENCH FOR HANDLING OIL-BURNERS. WILLIAM A. MASON, Boston, Mass. Filed Mar. 19, 1920. Serial No. 367,290. Renewed Sept. 12, 1921. Serial No. 500,267. 2 Claims. (Cl. 29—80.)



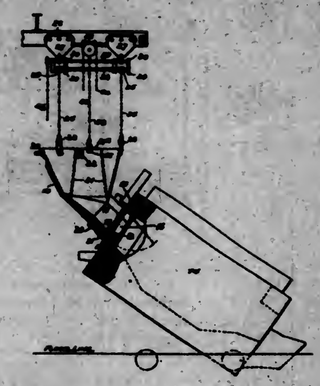
1. A bench for manipulating oil burners of the class described having a jaw at one end to prevent the burner from turning, a support near the other end of the bench lower than said jaw to allow the oil to drain out of the burner and a tray positioned to receive the drainage, said tray having an outlet opening adapted to cooperate with a receiving vessel.

1,395,857. DELIVERY-CABINET. THOMAS A. MATTHEWS, Nashville, Tenn. Filed June 1, 1921. Serial No. 474,076. 6 Claims. (Cl. 211—8.)



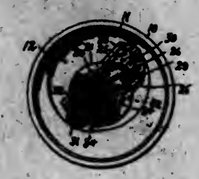
1. The combination with a cabinet having a delivery slot, of a spring-pressed follower in the cabinet to support and lift the pile, a sectional operating shaft parallel with and above the follower; the inner member of which shaft is hinged at one end to the outer or operating member to swing vertically away from the follower to admit of a pile of sheets or the like being placed thereon, and a feed roll on said swinging member.

1,395,858. COMBINED HOIST AND HOPPER. MAXWELL C. MAXWELL, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Feb. 17, 1921. Serial No. 445,614. 8 Claims. (Cl. 214—36.)



1. The combination of a hopper and hoist mechanism for the same, a hollow truncated cone open at both ends and adapted to rest within the hopper and hoist means for lifting the cone independently of the hopper.

1,395,859. TOOL-HOLDER. HENRY V. MORIN, Poughkeepsie, N. Y. Filed Dec. 2, 1920. Serial No. 427,795. 5 Claims. (Cl. 279—6.)



1. A device of the class described comprising a head having a concentric bore and with a recess eccentric to the bore and communicating therewith, a shank rotatively engaging the bore and extending into the recess, and a tool holder supported movably by the shank within the recess and movably engaged by the walls of the same.

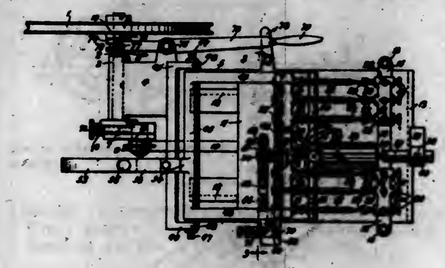
1,395,860. INSECTICIDE. JAMES FREDERICK MOSELEY, Manchester, England. Filed May 18, 1918. Serial No. 235,296. 4 Claims. (Cl. 167—6.)

1. An insecticide comprising tetrachlorethane incorporated with an alkali salt of a fatty acid, and a solvent alkali salt to increase the divisibility of the antiseptic products.

1,395,861. ENGRAVING-MACHINE. LUCIFER J. MOST, New York, N. Y. Filed Sept. 22, 1920. Serial No. 412,036. 25 Claims. (Cl. 33—21.)

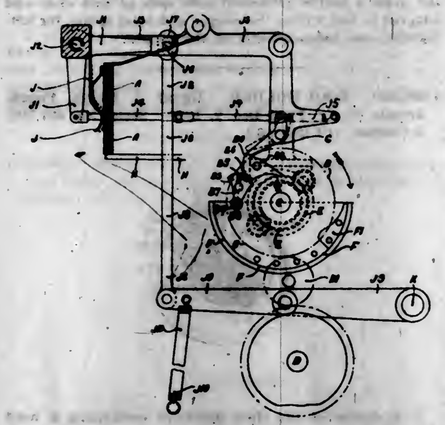
1. An engraving machine having the combination of means for rotatably mounting a plurality of cylinders, an

engraved master roll, means for rotatably mounting said roll, a graver for each of said cylinders, a tracer for said roll, a common carrier for said gravers and tracer, means to reciprocate said cylinders and roll longitudinally, means



to impart intermittent equiangular rotation to said cylinders and roll, and said roll guiding said tracer to cause said gravers to cut the surfaces of said cylinders in correspondence with its periphery during reciprocation of the cylinders and roll.

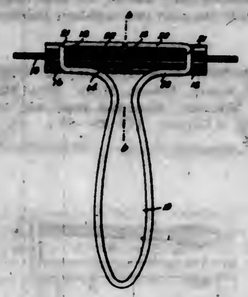
1,395,862. AUTOMATIC STACK-FEED. JOHN MURRAY, London, England. Filed Dec. 27, 1920. Serial No. 433,523. 11 Claims. (Cl. 271—62.)



1. An automatic stack feed, comprising means for advancing the stack on each withdrawal therefrom, but at a rate normally below that required to maintain delivery, a member bearing against the face of the stack and means controlled by the position of said member for increasing the rate of feed of the stack.

1,395,863. SQUEEGEE. JOHN F. NELSON, New York, N. Y. Filed Apr. 28, 1921. Serial No. 465,211. 1 Claim. (Cl. 15—59.)

As an article of manufacture, a squeegee comprising a flexible elastic strip of rectangular formation, a pair of rectangular clamping plates of reduced area with respect thereto, said clamping plates having longitudinally extending centrally bulged portions having a centrally longitudinally extending depression and a handle having means carried thereby for attaching the same to the strip and effecting the clamping of the plates to the opposite sides thereof, said means consisting of a pair of arms bent into substantially U-form in which the parallel side portions of said arms respectively lie within the depression



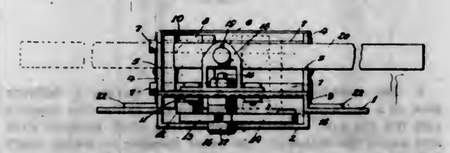
of the plates and the connecting portion of the side portions extend through the plates in the strip adjacent the opposite ends thereof.

1,395,864. EAR-APPLIANCE MOUNTING. HERMAN G. PAPE, New York, N. Y. Filed Aug. 24, 1918. Serial No. 251,247. 7 Claims. (Cl. 179—156.)



2. A relatively thin and curved metallic earpiece mounting or headband, said mounting being provided with an embossment which decreases gradually toward the ends of the mounting, said embossment producing the curvature of said mounting and an increased stiffness therein toward the middle section thereof which sits on top of a user's head.

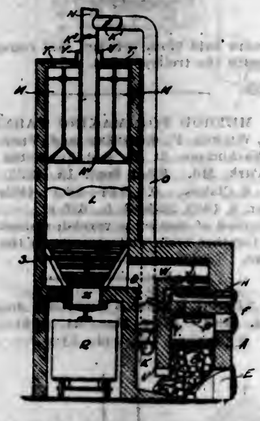
1,395,865. SWITCH-STAND. CHARLES PARTINGTON, Cincinnati, Ohio, assignor to The Cincinnati Frog & Switch Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 20, 1921. Serial No. 486,154. 4 Claims. (Cl. 246—411.)



1. A switch stand comprising a base plate, a housing on the base plate, a guiding rod disposed longitudinally within the housing, a slide mounted upon said rod, a lever

supported upon the base plate, means at the end of the lever to engage said slide and actuate the same, an angle lever supported by and below the base plate and provided at one end with means for engaging the lower end of the slide and receiving motion therefrom, and a switch-connecting bar pivotally attached to the opposite end of the angle lever.

1,395,866. PROCESS AND APPARATUS FOR PRODUCING CHARCOAL AND LIKE MATERIALS. JOHN STUART PEARCE, Vancouver, British Columbia, Canada. Filed Mar. 31, 1919. Serial No. 286,549. 6 Claims. (Cl. 202—3.)



1. A method of destructive distillation which comprises bringing gaseous products of combustion into intimate contact with a mass of independently heated refractory material, designed to act as a catalyst, and then through a mass of wood waste; substantially as described.

1,395,867. WOOD DISTILLATION. JOHN STUART PEARCE, Vancouver, British Columbia, Canada. Filed May 4, 1920. Serial No. 378,842. 2 Claims. (Cl. 202—2.)

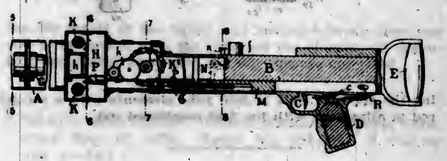
2. As a new product a tough, compact, non-crumbling variety of charcoal whose surfaces are of uniform consistency, existing in a semi-vitrified condition with surface strains uniformly distributed; substantially as described.

1,395,868. MUD-HOOK. WILLIAM G. PFEIFFER, St. Louis, Mo. Filed Dec. 4, 1920. Serial No. 428,259. 3 Claims. (Cl. 152—14.)



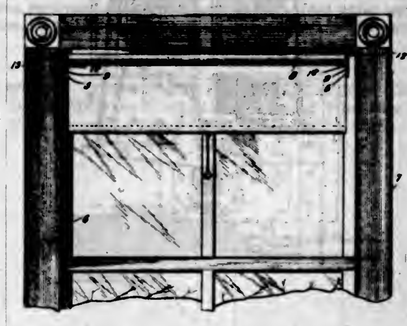
1. In a mudhook, the combination of a main body, attaching hangers, the said hangers being in the form of slotted straps, and a bolt adapted to pass through the said slots and to fasten the device, and the said hangers having thereon racks and the said bolt a tooth adapted to bite in one of the said racks.

1,395,869. PHOTOGRAPHIC CAMERA. ARTHUR GRAY PICKARD and FRANK SLINGER, Altrincham, England, assignors to Thornton-Pickard Manufacturing Company, Limited, Altrincham, Chester, England. Filed July 16, 1918. Serial No. 245,180. 2 Claims. (Cl. 95—31.)



1. A photographic camera having an exterior contour similar to that of a machine gun and embodying a receiver for a part representing the magazine of a machine gun, a barrel, a lens and shutter contained in the barrel, a spring motor to operate the film, a slide-bolt to wind the motor and to operate the shutter, a trigger and cooperative catch to hold and release the slide-bolt, and a device operative by the placing of the magazine-representing part on its receiver, to mark the film.

1,395,870. SHADE-BRACKET. EDWARD C. PIXLEY, Sullivan, Ohio. Filed May 31, 1919. Serial No. 300,798. 1 Claim. (Cl. 156—24.)



A window shade bracket comprising a body having means at one end to receive a shade roller, a plate formed on the body and extending at right angles thereto and adapted to engage a window frame, said plate having a bayonet slot at its upper end and a slot adjacent its lower end and said last slot opening outwardly through the edge of the plate and having angularly related portions, and fasteners extending through the slots and secured to the window frame, said slots adapted to permit the plate to pivot on one of the fasteners and allow the other fastener to become disconnected from the plate by moving outwardly of the other slot by said movement.

1,395,871. RESILIENT YOKE CONNECTION. RICHARD H. RANDALL and ALBERT LEIGHTON, Brockton, Mass. Filed June 15, 1920. Serial No. 389,128. 8 Claims. (Cl. 287—100.)

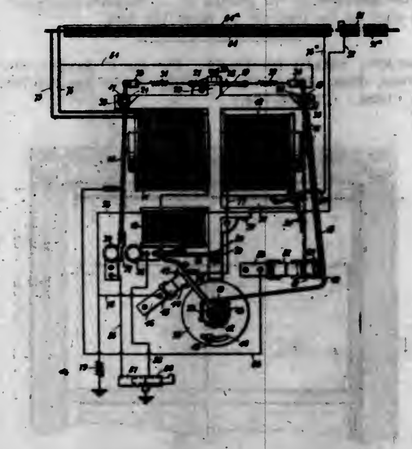
7. In a device of the class described, a plurality of yoke elements, a sleeve, means for mounting one end of said

yoke elements on said sleeve, said sleeve being adapted to be secured upon the end of a rod, and means for connect-



ing the opposite ends of said yoke elements with a second rod in alinement with the first mentioned rod.

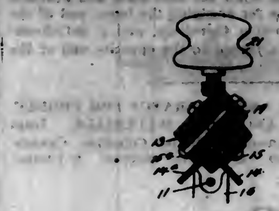
1,395,872. AUTOMATIC ELECTRICALLY-CONTROLLED TRACK-SWITCH. RICHARD R. SCOGGAN, Jeffersonville, Ind., assignor to Kentucky Switch & Signal Co., Inc., St. Matthews, Ky., a Corporation of Kentucky. Filed Aug. 4, 1920. Serial No. 401,152. 13 Claims. (Cl. 246—228.)



12. In a switch operating mechanism, the combination of contactors adapted to be electrically connected by the trolley wheel, one of said contactors being electrically connected to the trolley wire, an electrically operated switch throwing device, and means for maintaining the operating current to said switch throwing device for a uniform length of time after the initial connection of said contactors by the trolley wheel, regardless of the car speed and lengths of the trolley contactors.

1,395,873. TROLLEY-WIRE CONTACTOR. RICHARD R. SCOGGAN, Jeffersonville, Ind., assignor to Kentucky Switch & Signal Co., Inc., St. Matthews, Ky., a Corporation of Kentucky. Original application filed Aug. 4, 1920, Serial No. 401,152. Divided and this application filed Jan. 7, 1921. Serial No. 435,667. 7 Claims. (Cl. 191—39.)

2. A trolley wire contactor or trolley pan including a supporting block placed cornerwise, runways for the trolley wheel angularly disposed on adjacent faces of said block, and means for supporting the trolley wire without

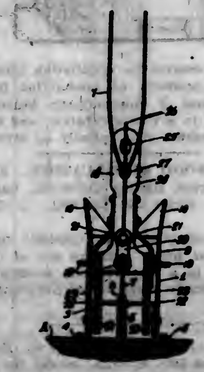


deflection below said block between said runways and out of contact with the trolley wheel.

1,395,874. METHOD FOR MAKING VARNISH MATERIALS. WILBUR F. STERLING and VICTOR E. GROTLISCH, Washington, D. C., and FLETCHER P. VEITCH, College Park, Md. Filed Sept. 15, 1921. Serial No. 500,984. 6 Claims. (Cl. 134—26.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. The method of making a varnish material consisting in heating together rosin and glycerin in the presence of metallic zinc.

1,395,875. VESSEL-RAISING DEVICE. JOSEPH SZALAY, Vicksburg, Miss. Filed Mar. 21, 1921. Serial No. 454,070. 2 Claims. (Cl. 114—51.)

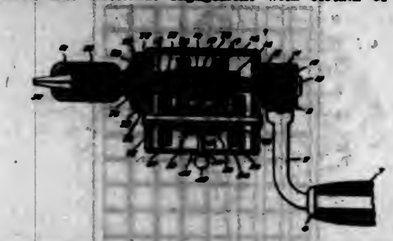


1. A device of the class described comprising a float support, means for connecting the same to a ship, guiding means at the upper end of the float support, a float adapted to rest in the support and to engage a part of the guiding means, a cable connecting the lower end of the float with a part of the support and coiled in said support, a lifting member adapted to engage a part of the support, means for guiding the said member to the support by means of the cable, a cable connected with said lifting member and a part on said lifting member for engaging the guiding means of the support.

1,395,876. BRACE. WILLIAM N. TIENCKEN, Savannah, Ga. Filed Feb. 28, 1921. Serial No. 447,193. 3 Claims. (Cl. 145—68.)

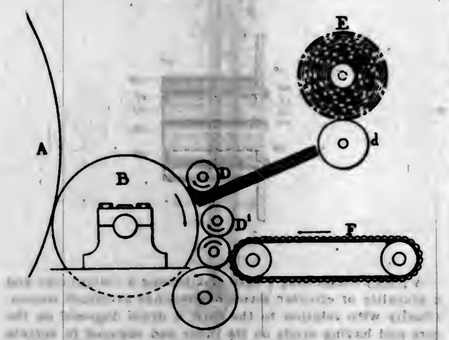
3. In a breast drill, a spindle section connected to and revoluble with the sweep of the drill, said spindle section having peripheral wheels of different diameters, a second hollow chuck carrying spindle section arranged on the first mentioned section, anti-frictional bearing means be-

tween the sections, said chuck carrying section having peripheral wheels of different diameters, a sleeve journaled for slidable and rotary movement adjacent to and in parallelism with the spindle sections, said sleeve having peripheral wheels of different diameters, means for moving the sleeve longitudinally to bring certain of the wheels thereof into frictional engagement with certain of the



wheels on the respective spindle sections, whereby the sleeve will be revolved by the turning of the first mentioned spindle section with the sweep and impart varying speed revolutions to the chuck carrying spindle section, a casing inclosing the wheeled portions of the spindles and the sleeve, and anti-frictional means between the sleeve, sweep and chuck.

1,395,877. CARDING-ENGINE. EDWARD TILLOTSON, Rochdale, England, assignor to Potter's Asbestos Company Limited, Rochdale, England. Filed Dec. 20, 1918. Serial No. 267,561. 1 Claim. (Cl. 19—3.)



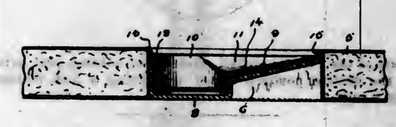
In an apparatus for mixing and carding fibrous materials, the combination of a carding cylinder, a licker-in roller operatively associated with said carding cylinder, sets of feed rollers arranged at different points adjacent the periphery of said licker-in roller, means for passing a lap to one set of feed rollers, mechanism for passing loose fibers of different material from said lap to another set of said feed rollers, whereby said lap and fibrous material are fed simultaneously to different points on the periphery of said licker-in roller and the mixed material is taken from the licker-in roller on to the carding cylinder at a single point on the periphery thereof.

1,395,878. FOUNTAIN-PEN. HENRY J. UPTON, West Medford, Mass., assignor to Vaughn-Upton Company, Boston, Mass., a Corporation of Massachusetts. Filed May 4, 1921. Serial No. 466,716. 2 Claims. (Cl. 120—47.)

1. In a fountain pen, a fountain barrel; an axial rod extending through the closure at the rear end of the barrel and carrying a conical boss adjacent the pen-end of the rod; that closure, having a tooth upon its inner end; a piston loosely mounted upon the rod frictionally engaging the inside of the barrel and having a tooth upon one end to coöperate with the tooth on the closure, all organized and operating as and for the purpose described.



1,395,879. MATTRESS. TIRSAH WALLACE, Topeka, Kans. Filed May 17, 1920. Serial No. 381,983. 3 Claims. (Cl. 5—13.)



1. The combination, a removably supported receptacle having an extension whose lower wall is upwardly inclined and which is rounded in cross section extending from one side of the receptacle and providing an apron, and a pan designed to rest in the receptacle having a trough extension received in the apron and having beaded edges which rest on the upper edges of the receptacle and the apron.

1,395,880. COMMUTATOR-BRUSH-RESEATING TOOL. DANIEL WEBSTER WARD, Memphis, Tenn. Filed July 12, 1920. Serial No. 395,656. 1 Claim. (Cl. 51—194.)

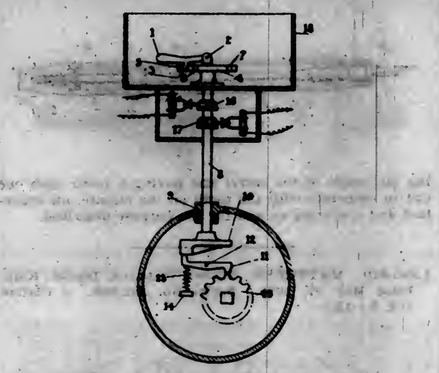


A grinding device comprising a mandrel adapted to have a sheet of abrasive covered material wrapped thereabout, and means for holding said sheet in position comprising a threaded stud projecting from one side of the mandrel, a bracket arm engaged upon said stud and adapted to engage against the rolled sheet of abrasive material, a plurality of pins extending from said bracket arm for penetrating the overlapping edges of the sheet of abrasive material, the mandrel being formed with recesses receiving said pins, and a clamping nut formed upon said stud engaging said bracket arm for holding the latter firmly in engagement with the sheet of abrasive material.

1,395,881. AUTOMOBILE-LOCKING APPARATUS. ACHILLE LÉON FRANÇOIS WATTEL, Sevres, France. Filed July 31, 1920. Serial No. 400,557. 2 Claims. (Cl. 70—127.)

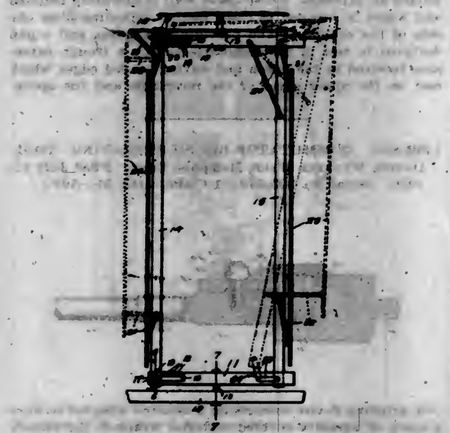
1. An apparatus for immobilising an automobile, comprising a handle, a shaft adapted to be rotated by said

handle, circuit-making and breaking means upon said shaft, means carried by said shaft for locking the transmission



shaft of the car, a notched segment for holding said handle in the desired position and a box having a lock inclosing said handle.

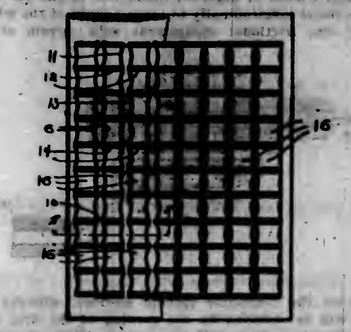
1,395,882. SELF-CLOSING STANCHION. FRED E. WEBB, Syracuse, N. Y. Filed Apr. 16, 1920. Serial No. 374,464. 4 Claims. (Cl. 119—149.)



1. A stanchion having upper and lower cross heads and spaced side bars or uprights one of which is movable relative to the other, a hanger connecting the movable side bar with the upper cross head at a point disposed inwardly of the plane of said bar, and a trip arm connecting the lower end of the said movable bar with the lower cross head for limited inward movement.

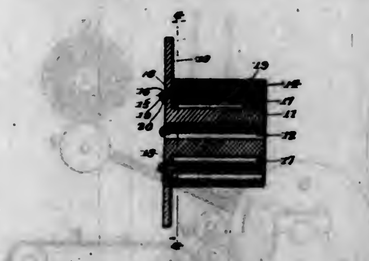
1,395,883. RADIATOR. OSCAR E. WESNEKE, St. Paul, Minn. Filed June 7, 1916. Serial No. 102,254. 1 Claim. (Cl. 257—180.)

A radiator of the class specified comprising pairs of plates disposed to form water channels, the plates of each pair being similarly formed and comprising regularly spaced outwardly extending aligned crimps, and having the portions intermediate the crimps outwardly bulged, the longitudinal edge portion of the plates of each pair being brought together and sealed, and the ends being open, and other pairs of plates intermediate the first mentioned pairs of plates, and having corrugations between which are



placed the folded edges of the said crimps, the said corrugations extending into the spaces between adjacent crimps, the longitudinal edges of the pairs of corrugated plates being brought together and sealed.

1,395,884. ADJUSTABLE PULLEY. FRANK A. WEST, Newburg, Mo. Filed Oct. 4, 1920. Serial No. 414,584. 1 Claim. (Cl. 64—17.)



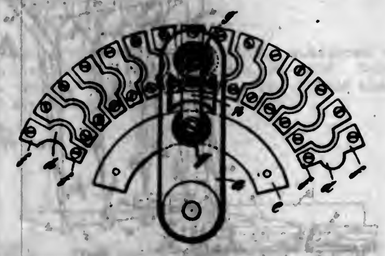
A pulley comprising a base disk having a central core and a plurality of circular series of openings arranged concentrically with relation to the core, a drum disposed on the core and having studs on its inner end engaged in certain of said openings and inwardly extending lugs on its outer end engaging with the outer face of the core to space the drum therefrom, and a second drum engaged on the first drum and having studs on its inner end engaged in other openings of the disk and lugs on its outer end engaged with the outer face of the first drum.

1,395,885. WATERPROOFING COMPOSITION AND METHOD OF MAKING SAME. WILLIAM GEORGE ABBOTT, Jr., Wilton, N. H. Filed Sept. 28, 1918. Serial No. 255,299. 10 Claims. (Cl. 134—15.)

1. The method of treating glycerids to produce a viscous water resistant composition, which consists in adding lead acetate to the substance to be treated, at temperatures in excess of 100° C.

1,395,886. ELECTRIC-CIRCUIT CONTROLLER. RICHARD AMBERTON, London, England. Filed Mar. 3, 1920. Serial No. 363,948. 7 Claims. (Cl. 200—11.)

1. In an electric circuit controller the combination comprising a plurality of contact plates each of said contact plates being formed with sides, one of which is outwardly curved and the other inwardly curved, the curvature of both sides being approximately circular, said contact plates being placed side by side so that the outwardly curved side



of one contact plate fits into the inwardly curved side of the next contact plate but without contacting therewith, and a circular brush, the circumferential outline of the brush being of similar curvature to the outwardly curved side of the contact plates.

1,395,887. HAND-TOOL. JOSEPH RENÉ AYOTTE, Chicago, Ill. Filed Oct. 31, 1919. Serial No. 334,715. 3 Claims. (Cl. 81—177.)



1. In a tool of the kind described, the combination of a bent casing within which is located at one end a tool member, and driving means within the tube for imparting rotation to the member, including a sleeve having a universal and non-rotatable connection therewith, a tube non-rotatably connected with the sleeve, two heads in end to end relation arranged at the sleeve end, one fixed and the other rotatable relative thereto, clutch elements carried by said heads in coöperating relation such that both heads may be rotated in unison in either direction, tension means for normally maintaining said heads in clutching relation, a handle pin slidably arranged crosswise of the one head and freely adjustable thereon, and a friction button arranged within the same head in coöperating relation to the handle pin for maintaining the same in any desired position of longitudinal adjustment, substantially as described.

1,395,888. HAND-TOOL. JOSEPH RENÉ AYOTTE, Chicago, Ill. Filed Mar. 15, 1920. Serial No. 366,059. 5 Claims. (Cl. 81—177.)

1. A tool of the kind described having, in combination, a body, a sleeve rotatably mounted therewithin, a holder carried at one end of the sleeve, a tool socket fitted within the holder, and means extensible longitudinally of the tool for rotating the sleeve comprising a tube adapted to telescope therewithin and having thereon a plurality of annular grooves, means detachably secured to the sleeve with-



in which is formed a seat, a split ring arranged within the seat and adapted to engage frictionally within any one of the annular grooves in the tube for maintaining the latter in a definite position longitudinally of the sleeve, and a driving connection between the tube and sleeve operative in all relative positions of adjustment between these parts.

1,395,889. BOAT. CARL J. BABB, Riverside, Ill. Filed Sept. 29, 1919. Serial No. 327,102. 15 Claims. (Cl. 114—77.)

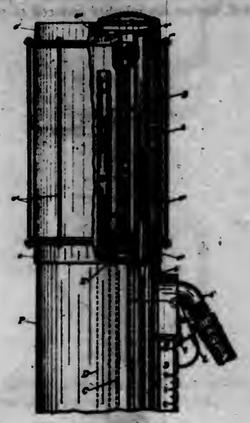


1. The combination with two connected boats having a water space therebetween, of means carried by one boat and slidable longitudinally thereof to a position engaging the sides and bottom of the other boat, whereby the space between said boats is inclosed at the sides and bottom.

1,395,890. AUTOMATIC DRAIN-BACK FOR ELEVATED LIQUID-CONTAINERS. LINNAEUS E. BAKER, Fort Wayne, Ind., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Dec. 16, 1919. Serial No. 345,416. 4 Claims. (Cl. 221—99.)

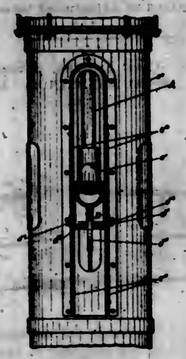
1. In a liquid dispensing apparatus having an elevated liquid container, the combination of a valve to drain the

contents of the container back to the storage tank, a moving element within the container, and means connected



with the valve and engageable by the moving element, to open the valve when placing the apparatus in position for temporary disuse.

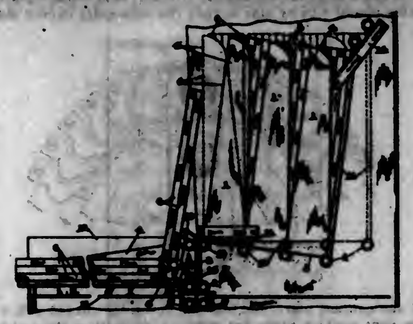
1,395,891. SETTING-LATCH. LINNAEUS E. BAKER, Fort Wayne, Ind., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Feb. 9, 1920. Serial No. 357,232. 5 Claims. (Cl. 221—100.)



1. A liquid vending apparatus comprising a casing, an elevated container supported by the casing, an adjustable discharge pipe vertically movable within the container, a fixed scale carried by the casing, a setting latch carried by the discharge pipe and means for normally holding the setting latch against the scale.

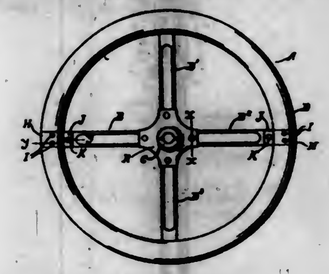
1,395,892. ACCOUNT-FILE. WILSON BARR, Trenton, Ontario, Canada. Filed Mar. 29, 1920. Serial No. 369,742. 6 Claims. (Cl. 45—2.)

1. In an account file the combination of a plurality of carriers one behind another, each mounted so that it may be turned from an upright to a substantially horizontal position and vice versa; and a plurality of account holding leaves mounted on each carrier one behind another,



each adapted to be turned from an upright to a substantially horizontal position and vice versa.

1,395,893. STEERING-WHEEL AND METHOD OF FORMING SAME. CHARLES W. BECK, Detroit, Mich., assignor to The Beck-Frost Corporation, a Corporation of Michigan. Filed May 20, 1914. Serial No. 839,687. 25 Claims. (Cl. 74—83.)



1. A steering wheel rim, comprising a rim proper having a joint, a fastening member at the joint and an outer covering of heat-insulating material substantially flush with the fastening member.

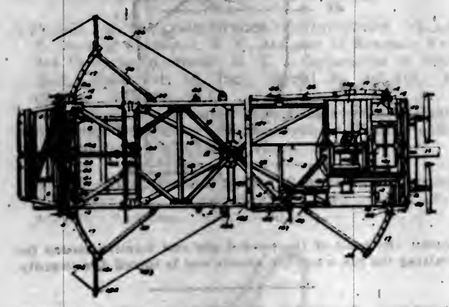
1,395,894. FENCE-STAPLE. CHARLES A. BECKWITH, Shullsburg, Wis. Filed Oct. 29, 1920. Serial No. 420,516. 1 Claim. (Cl. 256—49.)



In a fence construction, a post including longitudinal flanges, said post having relatively large openings formed in one of the flanges, securing links, each of said securing links having hooks formed at the ends thereof, the intermediate portion of each link being spaced from the post associated therewith, one of said hooks adapted to embrace a portion of one of the flanges, the opposite hook adapted to pass through the opening associated therewith

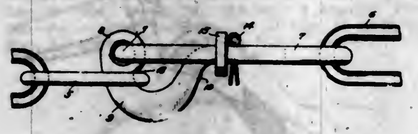
and grip a wire, said link adapted to be bent intermediate its ends to cause the hook members to grip the articles connected therewith, and one of said hook members adapted to be moved within the confines of the opening in which the same is disposed.

1,395,895. PILE-DRIVING MACHINE. ALEXANDER M. BELLONY, U. S. Army. Filed Apr. 26, 1919. Serial No. 293,031. 10 Claims. (Cl. 61—73.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. In a pile driving machine, an upper and a lower frame, pivoted together whereby the former may be moved relative to the latter, stationary tracks carried by the lower frame on which said upper frame moves, and auxiliary tracks hinged to said lower frame and movable into and out of alinement with said stationary tracks.

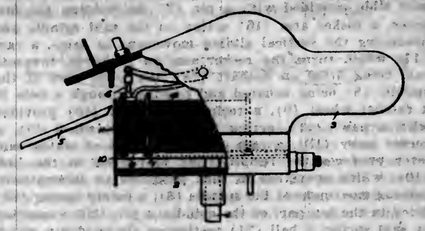
1,395,896. CHAIN-FASTENER. SHEFFIELD D. BELLOWS, Kelly Corners, N. Y. Filed Feb. 15, 1921. Serial No. 445,196. 1 Claim. (Cl. 24—68.)



A chain lock comprising a hook or clevis having a straight shank and provided with an attaching eye and a link engaging recess below said eye, an enlarged link connected to the attaching eye of the clevis, a transverse, closed link slidably carried by the elongated link for retaining the shank of the clevis within and between the arms of said enlarged link in the same plane with the attaching eye, and a cotter pin passing through the shank for preventing relative movement of the slidable member and shank when the hook is in its operative, locking position.

1,395,897. FEED-TABLE FOR PRINTING-PRESSES. ISIDOR BERKOWITZ, New York, N. Y. Filed Feb. 2, 1921. Serial No. 441,882. 2 Claims. (Cl. 271—61.)

1. A feed table comprising a main plate having a plurality of slots therein, an auxiliary plate disposed over the main plate and having slots of smaller width disposed in alinement with the slots in the main plate, a nut disposed in each of the main slots, and a guiding rod vertically disposed with respect to the main plate and having a lower threaded portion extending into said slots and into engagement with said nut, said rod adapted to be threaded into said nut to engage the bottom of the slots



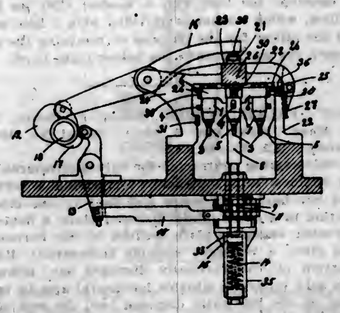
in the main plate and to jam the nuts against the under face of the auxiliary plate whereby the rods may be rigidly positioned on the main plate.

1,395,898. CONDENSER. JAMES A. BISHOP, Chicago, Ill. Filed May 26, 1919. Serial No. 299,826. 7 Claims. (Cl. 257—87.)



5. A condenser of the class described comprising in combination a series of vertical vapor tubes located in staggered relationship with respect to the travel of air between them horizontally, brick walls adjacent to said pipes and against which said air is deflected in its travel, and means for spraying water onto the upper portions of said walls, substantially as described.

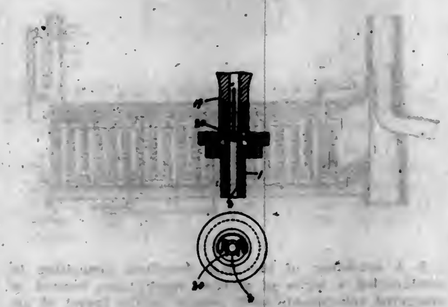
1,395,899. MACHINE FOR PRODUCING SPRING DRESS-FASTENERS. KLAS GUSTAV BLOMBERG, Södertälje, and BENGT AUGUST PETTERSSON, Lidköping, Sweden. Filed Oct. 17, 1919. Serial No. 331,511. 4 Claims. (Cl. 79—8.)



1. In a transporter device, forming part of dress fastener making machine, a spindle (8) rotating in bearings and movable vertically, a cross piece with four arms (6),

the said cross being supported by the said spindle, (8), a socket (1) fitted to each arm of the cross piece, said socket containing a slide (2) acted on by a spring, and the said slide provided with a pin (3) for holding the fastener, a rocker arm (16) acting on the said spindle and producing the vertical sliding movement in same, a cam (17) which turns the rocker arm on its pivot, the said cam being fitted on a shaft (18), the lower part of the spindle (8) being squared and passing through a hole in a ratchet wheel (9), a reciprocating link (10) provided with a pawl (11), acting on the ratchet wheel (9), a rocker lever (13), a cam (12), by means of which said lever produces the reciprocating movement in the link (10), which operation in turn produces an intermittent turning movement of the spindle (8), a safety spring (19) fitted in the top part of the spindle, a pin (20) supported by said spring, a ball (21) resting on the said pin which ball serves as the contact point for the rocker arm (16).

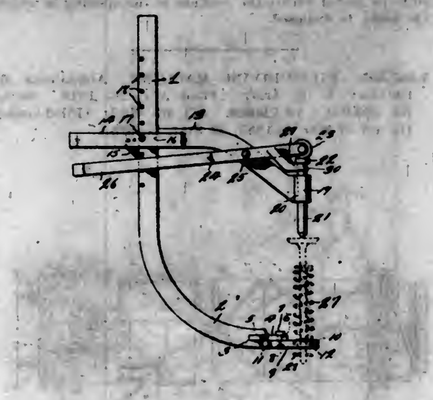
1,395,900. MACHINE FOR PRODUCING SPRING DRESS-FASTENERS. Klas Gustav Blomberg, Södertälje, and Bengt August Pettersson, Lidköping, Sweden. Filed Oct. 17, 1919. Serial No. 331,514. 3 Claims. (Cl. 79—8.)



1. In a device for forming and introducing the spring of dress fasteners into their holders in a machine employed for making such fasteners, a slide (11) with reciprocating movement and provided with a recess (3) for bending the wire, a tube (1) around which the wire is shaped and pincers (4) with reciprocating movement which perform such shaping a pillow die (27) which said pillow envelops the tube (1), a washer (28) on top of said pillow, which washer is provided with a hole smaller than in the pillow for the purpose of retaining the spring underneath the washer until the holder picks it off.

1,395,901. VALVE-LIFTER. Homer A. Booth, Pittsfield, Mass. Filed Nov. 5, 1920. Serial No. 421,897. 2 Claims. (Cl. 29—64.2.)

1. A valve spring contractor for valves of internal combustion engines, said contractor comprising a vertically disposed bar having its lower end bent to one side and terminating in a horizontally disposed plate, a detachable valve washer engaging plate secured to the horizontally disposed plate, a vertically slidable horizontally disposed arm carried by the vertically disposed bar, means for securing said vertically slidable horizontal arm in various positions on the vertically disposed bar, the end of said horizontally disposed bar having slidably mounted in a vertical bearing thereof a valve engaging pin, said valve engaging pin being provided with a head at its upper end, a pivoted lever pivoted to the horizontal bar and having its end provided with a roller for engaging the headed end of the pin and arms carried by the pivoted lever adjacent the roller and extending downwardly and engaging

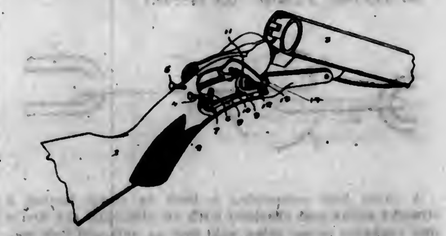


under the head of the headed pin and forming means for raising the pin when the handle end is forced downwardly.

1,395,902. WASHING, CLEANSING, AND LUBRICATING MEDIUM. Max Buchner, Heidelberg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed July 29, 1916. Serial No. 112,146. 9 Claims. (Cl. 87—5.)

1. A washing, cleansing and lubricating medium consisting of a hydrated inorganic hydroxid of a jelly-like consistence and rich in water.

1,395,903. FIREARM. Olof Buhl, Newell, Iowa. Filed Dec. 31, 1920. Serial No. 434,330. 1 Claim. (Cl. 42—41.)

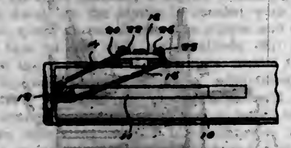


A fire arm comprising a stock, a swinging firing hammer having a rear abutment and also having a transverse shaft and means on the shaft and at the side of the stock for the retraction of the hammer, a spring about the transverse shaft to impel the firing hammer forwardly; said spring being tensioned by the retraction of the firing hammer and the attendant racking of the shaft, a longitudinally-arranged sear pivoted in the stock and having a forwardly-reaching hammer-engaging arm and also having a rear upstanding arm, and a pin guided in the stock and opposed at its inner and forward end to the rear side of the upstanding arm of the sear; said pin being designed to be pressed inwardly and forwardly by the user of the fire arm.

1,395,904. LOOM ATTACHMENT. Charles E. Chambers, Asheville, N. C. Filed July 7, 1919. Serial No. 308,955. 4 Claims. (Cl. 139—22.)

1. A picker check for looms comprising a flexible loop

extending around the picker stick, a plate adjustably secured to one side of the lay and means for securing the

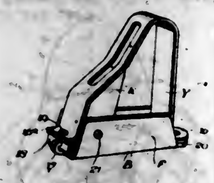


loop to the plate, whereby a side pull will be exerted upon the picker stick at the end of its stroke.

1,395,905. CELLULOSE-ETHER COMPOSITION. Hans T. Clarke, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 16, 1921. Serial No. 445,418. 9 Claims. (Cl. 134—79.)

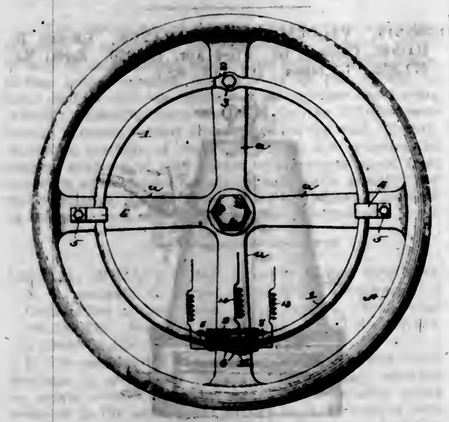
1. A composition of matter comprising a cellulose ether and a salicylic acid ester of a monohydroxy aliphatic alcohol having from 4 to 5 carbon atoms.

1,395,906. AUTOMOBILE-LOCK. Samuel Bun Clayton, Greensboro, N. C. Filed Sept. 22, 1920. Serial No. 412,006. 5 Claims. (Cl. 70—30.)



2. An automobile lock of the character described comprising, a yoke, a base plate spanning the ends of the yoke and universally connected thereto, and a block associated with the yoke and base plate to increase or decrease the internal area of the yoke for the purpose described.

1,395,907. DIMMING MECHANISM FOR AUTOMOBILE-LIGHTS. Albert N. Coulson, Baltimore, Md. Filed Apr. 7, 1919. Serial No. 288,400. 4 Claims. (Cl. 200—59.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



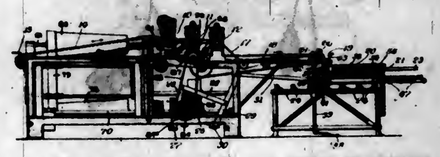
1. In a switch or controller, pivoted ring sections and switch contacts carried by said sections, said contacts operating to control a circuit by movement of said ring sections about their pivoted connections.

1,395,908. BUMPER. William G. Cox, Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y., a Corporation of New York. Filed June 18, 1921. Serial No. 478,537. 4 Claims. (Cl. 293—55.)



4. A bumper for automobiles, comprising a front bar having reversely bent arms and a relatively long curved impact portion at each end and a reversely curved impact portion at its center, and a rear bar having straight ends connected with said arms and a straight middle offset portion bearing against and united with said front bar at each side of its center.

1,395,909. SHEET-HANDLING MACHINE. Charles E. Dellenbarger, Chicago, Ill. Filed Dec. 14, 1918. Serial No. 266,681. 17 Claims. (Cl. 226—14.)



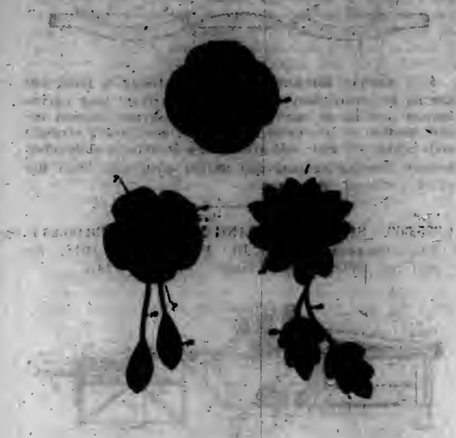
1. In a machine for cutting and stacking sheets from a length of moving material, in combination, sheet severing mechanism acting on the moving material, a receiver for the sheets cut off thereby, and means for reciprocating the receiver at a rate of speed proportioned to the rate of travel of the moving material whereby the sheets coming from the severing mechanism are stacked on said receiver.

1,395,910. WINDOW VENTILATING-STOP. Basil W. Dennis, Detroit, Mich. Filed Feb. 27, 1920. Serial No. 361,780. 3 Claims. (Cl. 292—305.)



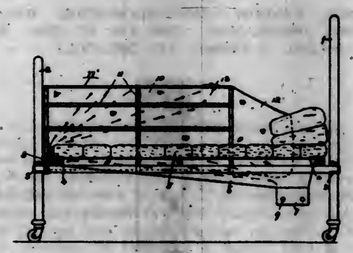
1. A device of the type described comprising a rail having an angular portion supported in a plane other than that of said rail, spaced stop shoulders on said rail, and a stop slidable on said rail and the angular portion thereof and adapted to have a latch engagement with the shoulders when moved in one direction and ride free of the shoulders when moved in the opposite direction.

1,395,911. METHOD OF MANUFACTURING ORNAMENTATIONS AND FINISHED ARTICLE DERIVED THEREFROM. Gustave J. Kroll, New York, N. Y. Filed Dec. 14, 1920. Serial No. 430,779. 6 Claims. (Cl. 41—18.)



1. An article of manufacture, including a substantially flat base portion, a plurality of medallions affixed to said base portion, said medallions simulating the petals of a flower.

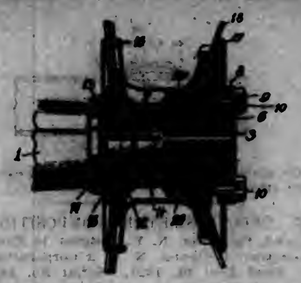
1,395,912. HEATED BED. Rudolph Ferentzi, Newark, N. J. Filed Jan. 28, 1918. Serial No. 214,152. 1 Claim. (Cl. 126—205.)



The combination of a bed frame, air heating means consisting of a heating pan secured to the bottom of the bed having a tapering bottom wall and having a compartment adapted to house a suitable heater, a spring and mattress above said pan, the said tapering wall having a portion extending beyond the end of the spring and mattress forming an outlet for directing heat above the mattress and a removable superstructure for confining the heat above the mattress and a vent for regulating the amount of heat within the superstructure.

1,395,913. HUB CONSTRUCTION. Henry Ford, Dearborn, Mich. Filed Apr. 15, 1918. Serial No. 228,588. 2 Claims. (Cl. 287—53.)

1. The combination with a wheel hub, and axle, a bushing between said axle and said hub and having a driving relation to said axle, a flange on said bushing exteriorly of said hub and confronting the outer face of said hub, and means extending through the flange of said bushing connecting said bushing to said wheel hub and adapted to



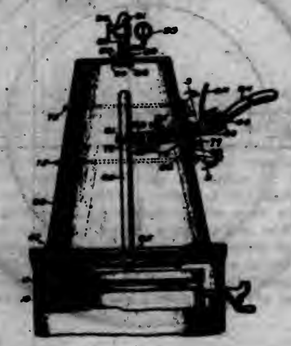
be repositioned in the flange of said bushing for forcing said bushing from said axle independent of said wheel hub.

1,395,914. SWIMMING DEVICE. Otto William Graundmann, Jersey City, N. J. Filed Aug. 1, 1921. Serial No. 488,898. 3 Claims. (Cl. 9—21.)



1. In a swimming device, a plate of rigid material shaped to conform with the natural outline of a hand and divided transversely near the knuckle part into two sections pivoted to one another, the adjoining edges of said plate being cut out to leave a free space around the knuckles, a piece of flexible material covering said space and means for the attachment of said device to the hand.

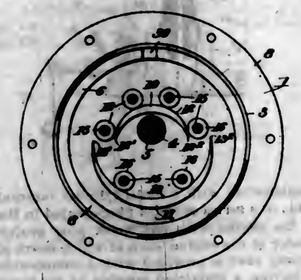
1,395,915. VACUUMIZING APPARATUS. George B. Haines, Chicago, Ill. Filed Apr. 7, 1920. Serial No. 371,835. 7 Claims. (Cl. 113—82.)



1. An apparatus for vacuumizing and sealing cans and the like comprising, in combination a glass jar having an opening in its side wall, a flexible disk extending over

said opening, means for clamping the peripheral portion of said disk against the outside face of the jar around the opening in air-tight manner, a nipple extending through the disk, a flange on the nipple in contact with one face of the disk, a nut threaded onto the nipple and engaging the other face of the disk, an electrode clip pivotally mounted on the inner end of the nipple, means for securing said clip in a given position of adjustment, means for adjustably securing an electrode to said clip, an electrical connection to the nipple at a point outside of the jar, an insulating handle in conjunction with the nipple at a point outside of the jar, a vacuumizing connection to the jar, a valve in said connection, a gage in said connection between the valve and jar, there being an air passage through the nipple having its inner end in communication with the space within the jar, a valve controlling communication of the outer end of said passage with the atmosphere outside of the jar, and a gasket of resilient material surrounding the lower edge of the jar and adapted for contact with the surface of a can or the like, substantially as described.

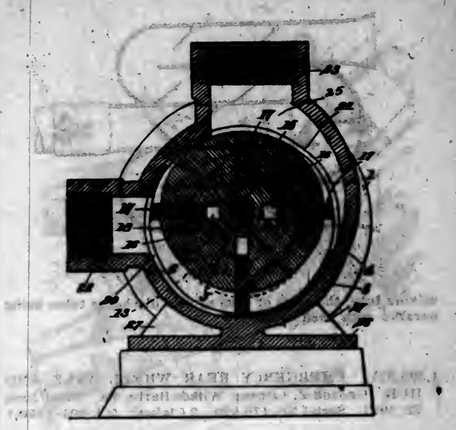
1,395,916. ROTARY PUMP. Albert Hayes, New York, N. Y., assignor to Carnot Development Corporation, a Corporation of New York. Filed Sept. 5, 1917, Serial No. 189,723. Renewed Apr. 1, 1921. Serial No. 457,706. 7 Claims. (Cl. 103—44.)



1. The combination of a cylinder having inlet and outlet openings, a cylindrical carrier mounted to rotate eccentrically in said cylinder said carrier being slotted radially, sliding gates mounted in the slots of the carrier to make contact with the interior of the cylinder and having laterally extending portions, heads for the cylinder each having a recess formed therein, guides for said laterally extending portions of the gates within the recesses, the guiding surfaces of said guides being spaced apart from the walls of the recess a distance sufficiently greater than the diametrical extent of the laterally extending portions of the gates to permit of free passage of sediment.

1,395,917. ROTARY PUMP. Albert Hayes, New York, N. Y., assignor to Carnot Development Corporation, a Corporation of New York. Filed Sept. 5, 1917, Serial No. 189,724. Renewed Apr. 1, 1921. Serial No. 457,707. 3 Claims. (Cl. 103—44.)

3. The combination of a cylinder having inlet and outlet openings, a cylindrical radially slotted carrier mounted to rotate eccentrically in said cylinder sliding gates mounted in the slots of the carrier to make contact with the interior of the cylinder and having laterally extending portions, heads for the cylinder each having a circular recess formed therein adapted to receive the laterally extending portions of the gates and a ring bearing against the periphery of the recess and movable therein, adapted to receive within its inner periphery the laterally extend-



ing portions of the gates, said ring having antifriction bearing in the periphery of the recess.

1,395,918. PACKAGE OF X-RAY FILMS. John G. Jones, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 27, 1919. Serial No. 320,283. 13 Claims. (Cl. 250—84.)



9. A package comprising a sheet of sensitised material, sheets of foldable material one on each side of said sensitised sheet, the edges of the last named sheets being interfolded together on one face of the package thus formed, one of said last named sheets being folded at least twice in the interfolding.

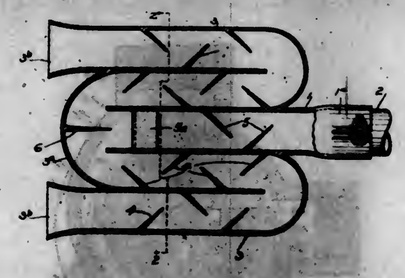
1,395,919. INSECTICIDE FOR BOLL-WEEVILS. Philipp Koenig, Cuero, Tex. Filed Sept. 8, 1920. Serial No. 408,809. 1 Claim. (Cl. 167—6.)

An insecticide compound for killing boll weevils as a result of their inhalation of the compound, consisting of a solution of arsenic and baking soda in water said solution being boiled until the ingredients are dissolved in the water, in combination with a large quantity of wood ashes with which the poisoned solution is thoroughly mingled and then dried in accordance with the steps hereinbefore specified and for the purpose described.

1,395,920. MUFFLER. Rudolf Liebeschek, Pittsburgh, Pa., assignor of one-third to Slavk Lovrencic, Bellevue, Pa., and one-third to Paul Radocaj, Pittsburgh, Pa. Filed Feb. 6, 1920. Serial No. 356,580. 6 Claims. (Cl. 137—160.)

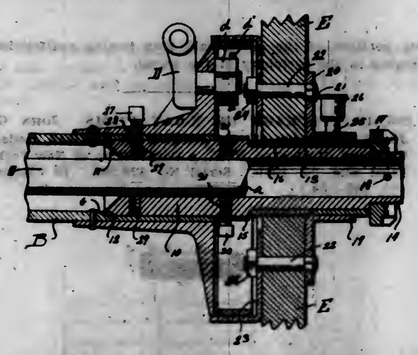
1. In a muffler, a central exhaust receiving tube, and

lateral discharge tubes of substantially elongated U-shape communicating at their outer ends with said exhaust re-



ceiving tube, the arms of each of said discharge tubes being parallel with each other.

1,395,921. EMERGENCY REAR WHEEL AXLE AND HUB. GEORGE E. LUTSEY, Wilkes-Barre, Pa. Filed June 22, 1921. Serial No. 479,629. 2 Claims. (Cl. 301—130.)



1. An emergency repair attachment for automobile axles comprising a tubular auxiliary axle adapted to fit the broken axle and fit within the axle housing and being formed intermediate its ends with an outwardly projecting shoulder adapted to bear against the extremity of the axle housing, that portion of the auxiliary axle forward of the shoulder being reduced in diameter and the extremity of the tubular axle having a reduced screw-threaded portion, a bushing surrounding the reduced portion of the tubular axle and being rotatable thereon and having a hub flange disposed adjacent the forward end of the bushing, a nut engaging the screw-threads on the terminal end of the auxiliary axle and holding the bushing in place, bolts passing through the hub flange and adapted to engage the spokes of a wheel and the brake drum thereof, said tubular axle having screw-threaded perforations between the shoulder and the inner end of the tubular axle through which set screws may be passed to hold the auxiliary axle in engagement with the housing and the broken axle.

1,395,922. DENTAL EXPANSION-ARCH. WILLIAM A. MCCARRAN, Topeka, Kans. Filed Apr. 2, 1921. Serial No. 458,980. 4 Claims. (Cl. 32—19.)

1. A device of the character described comprising a member adapted to be secured to a fixed anchorage upon a tooth, an arch band, an extensible element engageable with an end of said arch band, a casing carrying said extensible element and interengaging members upon said casing and



the first named member engageable with each other, when said casing is moved laterally and then longitudinally with respect to said member.

1,395,923. SPARK-PLUG. MARION M. MCCOY, Dawson, N. Mex., assignor of one-half to G. A. Will, St. Louis, Mo. Filed Dec. 7, 1916. Serial No. 135,604. 1 Claim. (Cl. 123—169.)

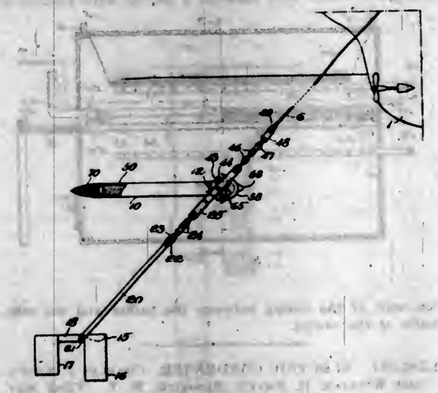


The combination with a multi-cylinder internal combustion engine, of a series of spark plugs seated in the cylinder block of the engine with one spark plug projecting into each cylinder of the engine, each of which spark plugs comprises a body that is provided with a comparatively large chamber having a restricted opening at its lower end, an electrode fixed to the body of the spark plug and projecting into said restricted opening, a second electrode extending through the body of the spark plug and insulated therefrom, the lower end of which second electrode terminates within the restricted opening adjacent to the end of the first mentioned electrode, and there being a threaded aperture formed through the side wall of the plug, which aperture communicates with the chamber, of a tubular member one end of which is threaded and screw seated in the aperture in the plug, the outer end of said tubular member being turned upwardly and formed into a cup which is open to atmosphere, a valve mounted for rotation within said tubular member and passing diametrically therethrough, said valve being provided with an aperture which is adapted to register with the passageway through the tubular member, an operating handle carried by each valve, a pull rod pivotally connected to the outer ends of all of said handles, and a retractile spring for moving said pull rod in one direction.

1,395,924. TOWING SUBMERGED OBJECTS, SUCH AS SUBMARINE TORPEDOES. FRANCIS PEABODY MAGOUN, Cambridge, Mass. Filed Feb. 28, 1918. Serial No. 219,617. 27 Claims. (Cl. 114—235.)

1. Means for towing a submerged object at a substantially predetermined depth comprising a tow line, directing means having surfaces capable of assuming new positions in respect to the object in response to variable forces acting upon said means, and means for attaching the

directing means to the tow line with freedom of motion to perform its movements of correction, whereby to main-



tain the object submerged at a predetermined depth with substantial freedom from vertical and lateral oscillation.

1,395,925. AUTOMOBILE-BUFFER. JACOB F. MARTIN, Bellevue, Ohio. Filed Oct. 29, 1920. Serial No. 420,501. 4 Claims. (Cl. 293—55.)



2. An automobile buffer, comprising a buffer-bar, buffer-bar supporting members attached to the ends thereof and comprising supplemental spring members conformed to and attached to the depending scroll portions of the upper vehicle springs and terminating in loop-eyes engaging the sleeves of the springs between the shackle link members thereof, and clamping members connecting said supplemental and main springs whereby said buffer-bar will be supported and cushioned by said upper vehicle springs.

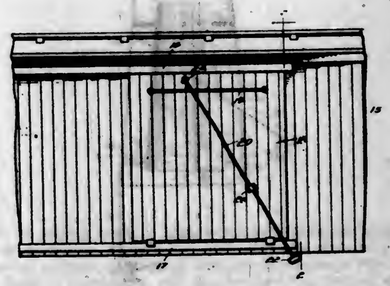
1,395,926. MECHANICAL STARTER FOR EXPLOSIVE-ENGINES. JOSEPH M. MICHAELSON, Minneapolis, Minn. Filed Apr. 20, 1917. Serial No. 163,413. 1 Claim. (Cl. 74—54.)

In a motor propelled vehicle having side frame members and an intermediate cross member connecting the same, a transmission shaft and a clutch for connecting the same to the motor, an engine starter comprising a beveled pinion on said transmission shaft connected thereto by a one-way clutch arranged to cause said pinion to drive said shaft but permitting said shaft to run ahead of said pinion, a flat gear segment disposed in a plane parallel to the transmission shaft having lateral teeth thereon and located forwardly of said pinion and above the same, a hand lever extending forwardly from said segment and forming the forward radial arm thereof, said segment being pivotally mounted on a short shaft on said cross member of the frame, one edge of said cross member serving as a stop member, a bracket having a buffer thereon carried by said lever and adapted to contact with said



stop member, and a spring tending to maintain said lever in its forward position.

1,395,927. CAR-DOOR OPENER. DANIEL W. MILLSAPS, Greenville, S. C. Filed Nov. 24, 1917. Serial No. 203,810. Renewed Mar. 24, 1921. Serial No. 455,827. 5 Claims. (Cl. 16—10.)

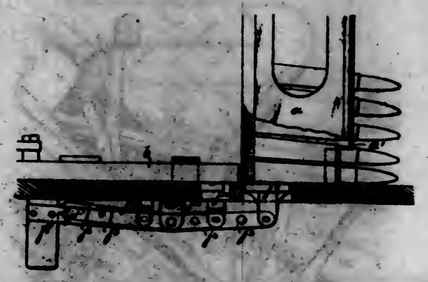


1. The combination with a horizontally sliding door, of a rod secured across said door in a substantially horizontal position near the top, a pole having an eye engaging the rod, said pole having its upper end extended above the rod and provided with a spindle, and an anti-friction roller journaled on the spindle and engaging the door.

1,395,928. MACHINE FOR FILLING CARTRIDGE-MAGAZINES, CARTRIDGE-BELTS, STRIP-CHARGERS, AND THE LIKE. HARRY ROBERT NORTHOVER, Winnipeg, Manitoba, Canada. Filed Mar. 5, 1918. Serial No. 220,667. 8 Claims. (Cl. 86—45.)

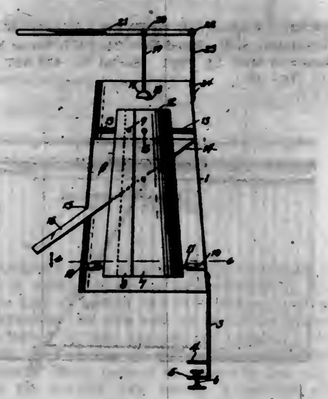
1. In an automatic stop mechanism for cartridge-feeding machines, the combination with a cartridge-feed device, and a hopper or guide down which the cartridges are fed by gravity into the range of action of said device, of a

system of counterweighted levers normally restrained by the cartridges, and a member controlled by said levers and



locking the feed device in the event of a cartridge failing to position itself before said feed device.

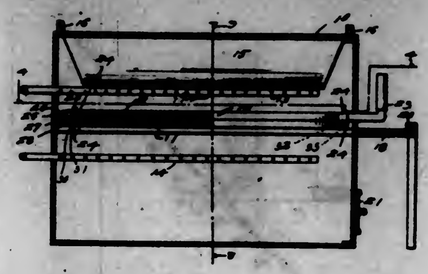
1,395,929. CORN-CUTTING DEVICE. DAVID EVERETT RYDER, Newburgh, N. Y. Filed July 23, 1920. Serial No. 398,343. 3 Claims. (Cl. 130—9.)



1. A corn cutter comprising an expansible tubular sleeve having overlapping edges with its side walls converging upwardly to a cutting annulus, a housing surrounding the sleeve, and means to force a cob longitudinally through the sleeve.

1,395,930. WAFFLE-MACHINE. FRANK A. SELL, Portland, Oreg. Filed Oct. 29, 1920. Serial No. 420,457. 1 Claim. (Cl. 53—10.)

A waffle machine comprising a casing having an opening in its side wall, a waffle iron slidably mounted in the casing and capable of being moved out of said casing by way of the opening, heating means arranged above and below the waffle iron, downwardly converging baffles carried by the top wall of the casing and terminating adjacent the uppermost heating means, and vent means arranged in the



top wall of the casing between the baffles and the side walls of the casing.

1,395,931. ELECTRIC CONDENSER. CHARLES F. SMITH and WILLIAM H. SMITH, Brooklyn, N. Y. Filed May 17, 1920. Serial No. 382,090. 3 Claims. (Cl. 250—41.)



1. An electric condenser unit comprising a base or body of thin fiber board and a wrapping of dielectric and metal foil encircling said base or body, the sheets of metal foil being smaller in size than the sheets or plies of dielectric, said sheets of metal foil having leads which are folded around the ends of the fiber base or body, and means for securing the wrapping of dielectric and metal foil in place about said base or body.

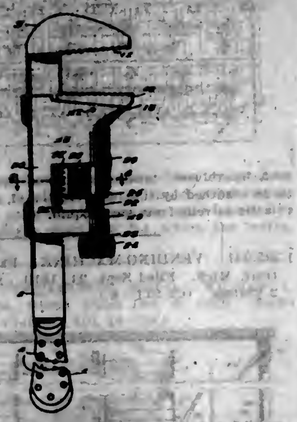
1,395,932. GAS-ENGINE GOVERNOR. EDWIN G. STAUDE, Minneapolis, Minn. Filed May 19, 1919. Serial No. 298,246. 5 Claims. (Cl. 251—145.)



1. A governor for internal combustion engines comprising a pipe having a passage for air and fuel to the engine, a helical spring arranged in said passage and having openings for the passage of air and fuel between its coils, the coils of said spring being adapted for compression in line with its axis to close said openings, the suction of the engine compressing said coils and closing said openings to reduce the area thereof and the flow of air and fuel to the engine.

1,395,933. WRENCH. CHARLES L. STIDHAM, Gravois Mills, Mo., assignor of one-half to William Well, Versailles, Mo. Filed Sept. 20, 1920. Serial No. 411,486. 1 Claim. (Cl. 81—156.)

A wrench including a toothed stationary jaw having a toothed shank, a movable jaw having a carriage slidable on the shank, a spring influenced toothed auxiliary jaw arranged for limiting movement on the active faces of the movable jaw, a headed screw carried by the carriage, a toothed block having a threaded bore which is engaged

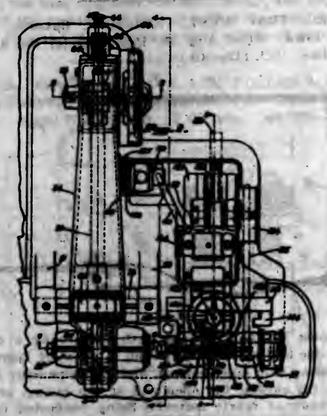


by the screw and the teeth of the said block designed to engage with the teeth of the shank, and spring means engaging the block for holding the same in engagement with the teeth of the shank, said block being susceptible to a swinging movement on the screw.

1,395,934. FOOD PRODUCT. FRANK WEBB STOCKTON, Pittsburgh, Pa. Filed Mar. 17, 1921. Serial No. 453,009. 9 Claims. (Cl. 99—11.)

1. The method herein described of preparing nut butter in order to prevent gravitational separation of the ingredients thereof which consists in mixing with the nut kernels a normally solid fat and grinding the mixture to a homogeneous pasty mass.

1,395,935. FORMING-MACHINE. FRANK L. WALTER, Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company, a Corporation of Ohio. Filed Nov. 21, 1918. Serial No. 263,462. 27 Claims. (Cl. 29—51.)



1. In a forming machine, the combination with a tool holder and a rotatable work holder; of means for producing a predetermined series of movements of the axis of the work holder relatively to the tool holder, said means including a cam rotating in synchronism with the work holder, the contour of said cam being enlarged scale reproduction of the desired contour of the finished product of the machine.

1,395,936. THREAD-REMOVER. GLENIER F. YORK, Salina, Kans. Filed Mar. 9, 1920. Serial No. 364,462. 1 Claim. (Cl. 10—113.)



In a thread removing tool adapted for use on valves of automobile tires, the combination of a block, means for rotating the block, the block having a threaded opening therethrough, opposite cutting blades having cutting edges projecting inwardly to but not beyond the apex of the threads, the block having opposite grooves in which said cutters are affixed to the block, the cutters being shaped to leave slots for the escape of chips, the entire device being of suitable shape and size for operation on the valve stem of an automobile tire when same is mounted on the wheel.

1,395,937. REPRODUCER. ABRAHAM ATLAS, Philadelphia, Pa. Filed June 19, 1920. Serial No. 390,241. 2 Claims. (Cl. 274—25.)

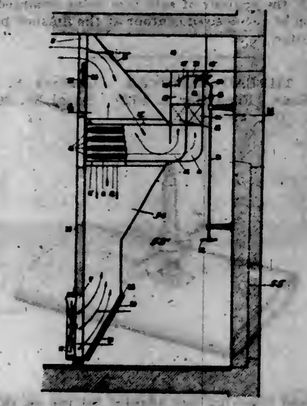


1. A talking machine reproducer comprising an integral body of circular shape and formed relatively thick with its central portion considerably reduced in thickness whereby to define a diaphragm, said diaphragm being formed with a central hole, and a socket member formed at a point in the periphery of said body and adapted to hold a stylus.

1,395,938. ARRANGEMENT FOR CHANGING AND HEATING AIR IN ROOMS AND CHAMBERS OF ANY KIND. PILADE BARDUCCI, Naples, Italy. Filed Jan. 19, 1920. Serial No. 352,267. 10 Claims. (Cl. 98—27.)

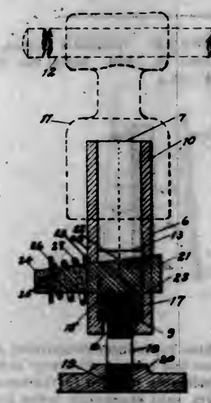
10. An apparatus for changing air in rooms of any kind, comprising a casing having orifices opening into the room, reversible propelling means at one of said orifices for producing an air current through said casing and orifices, two sets of boxes in said casing, said boxes being spaced apart from each other and having mouths opening into the casing toward one of its orifices, all said boxes leading to passages communicating with the outside, controlling means in said passages, the boxes of one set exhausting air to the outside, and the boxes of the other

set drawing air from the outside into said casing, and heating means in said casing intermediate said boxes,



sand casing having ports provided at points beyond the space between the boxes and leading to the outside, and also having valves controlling said ports.

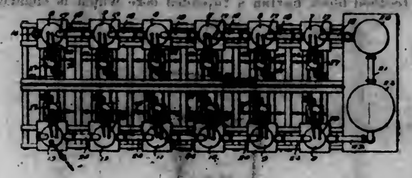
1,395,939. STUD-DRIVER. FRED A. BARNES and EDWARD G. HURLBUT, Indianapolis, Ind. Filed Apr. 4, 1921. Serial No. 458,620. 4 Claims. (Cl. 81—53.)



1. A stud driver comprising a body portion, a bore and a counterbore within said body portion, said counterbore entering said body portion at its opposite end from said bore, a plurality of interchangeable collets to fit within said counterbore, said collets being wholly within said counterbore, a key transversely positioned through said body portion, means for retaining said key in adjusted position, and an operating handle removably engaging the counterbored end of said body portion.

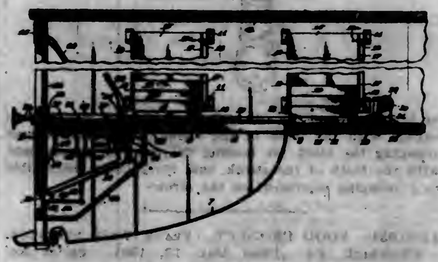
1,395,940. PROCESS OF RECOVERING VOLATILE SOLVENTS. HARRY P. BASSETT, Cynthiana, Ky., and SAMUEL S. SADTLER, Springfield township, Montgomery county, Pa. Filed Sept. 17, 1920. Serial No. 410,948. 6 Claims. (Cl. 202.)

1. The herein described process of recovering a volatile solvent whose vapors are relatively insoluble in water and soluble to dilute alcohol, which comprises adding to water enough alcohol to make approximately from 40 to 70 per



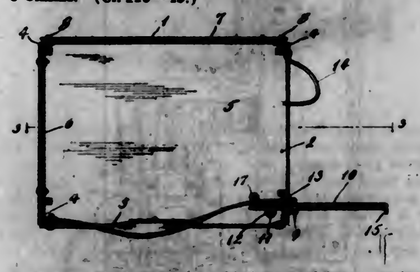
cent. by volume, causing vapors of such volatile solvent to be absorbed by the resulting liquid, and separating the volatile solvent from such liquid.

1,395,941. VENDING-MACHINE. FRANK BEATTIE, Detroit, Mich. Filed Sept. 24, 1919. Serial No. 325,843. 2 Claims. (Cl. 211—8.)



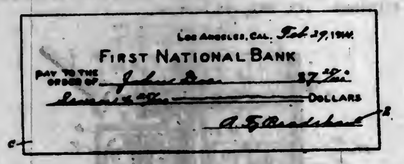
1. The combination with a vending machine, of package holders therefor, each holder comprising a slotted stationary partition, a slotted bar, longitudinal apertured partitions between said bar and said stationary partition, and stud bolts carried by said partitions and adjustably held in the slots of said bar and stationary partition, and adjustable partitions between said longitudinal partitions, and stud bolts carried by said adjustable partitions and engaging in the apertures of said longitudinal partitions, so that the area of said holder may be increased and decreased.

1,395,942. TRAP-NEST. SAMUEL C. BELDING, Mason City, Iowa. Filed Aug. 19, 1920. Serial No. 404,506. 5 Claims. (Cl. 119—49.)



1. A nest of the type set forth comprising a casing, open at one end and at its bottom, a piece of fabric material closing said open bottom, and a downwardly swinging door for closing the open end of the casing, one end of said piece of fabric material being connected to said door, whereby the latter will be moved to closed position when said piece of material is depressed by the weight of a hen in the nest.

1,395,943. CHECK-PROTECTING METHOD. ARTHUR FRANKLIN BRADSHAW, Bieber, Calif. Filed Jan. 2, 1920. Serial No. 349,005. 3 Claims. (Cl. 283—9.)



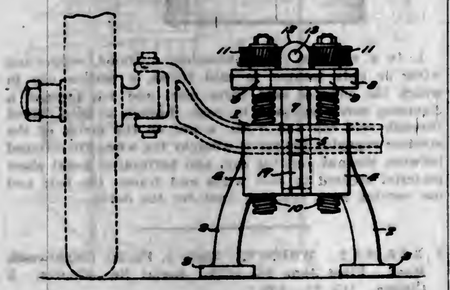
1. An instrument of monetary value, when executed by the drawer, having a multiplicity of the drawer's signatures arranged in an arbitrary manner with respect to each other to signify a maximum for which the instrument is negotiable.

1,395,944. TIRE-VULCANIZING MOLD. WILLIAM A. BRUBAKER, Akron, Ohio. Filed Dec. 8, 1920. Serial No. 429,142. 7 Claims. (Cl. 18—38.)



1. In tire vulcanizing molds the combination with the side mold plates and the means for holding the same together; a base ring, means for leading compressed air through the base ring into the mold cavity, and means assisted by the pressure of the air within the mold for sealing the ring and mold plates against escape of air.

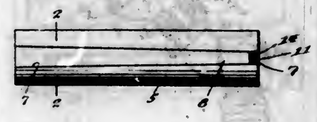
1,395,945. COMBINED JACK AND PULLER. ARTHUR E. CLEMENTS, South Jacksonville, Fla. Filed Dec. 4, 1920. Serial No. 428,320. 2 Claims. (Cl. 254—98.)



1. In a device for the purpose set forth, a body having depending legs at the outer corners thereof, screw mem-

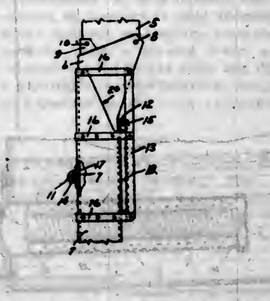
bers having oppositely pitched threads vertically movable through threaded openings in the body, a shank having an outstanding lug thereon guided through the body, a head on the shank having openings receiving the non-threaded upper ends of the screws, worm wheels secured to said ends and resting on said head, a shaft journaled in the head and having a worm engaging the worm wheels, and an operating handle for the shaft.

1,395,946. WRIST-PIN. CHARLES HENRY CLEMONS, Weldon, Ill. Filed May 11, 1921. Serial No. 468,776. 5 Claims. (Cl. 74—17.)



1. A wrist pin comprising a tubular body having a side slot extending throughout its entire length, whereby the body is split longitudinally to permit expansion, said slot being tapered in the direction of one of its ends, a core slidably mounted in said body and having a wedge-shaped rib seating in the slot, and adjusting means for said core.

1,395,947. DISTRIBUTING-SPOUT. FRED W. COOLEY, Minneapolis, Minn., assignor to James J. Gerber, Minneapolis, Minn. Filed Feb. 24, 1920. Serial No. 360,779. 8 Claims. (Cl. 193—40.)



1. The combination with a distributing spout composed of telescoping sections, of leverage compensating devices including movable supporting members for said sections under a variable leverage which advantageously increases against the buckling strain on telescoped ends of said sections in proportion to the extent of their outward separating telescopic movement, substantially as described.

1,395,948. HELMET AND MASK FOR USE WITH RESPIRATORY APPARATUS. ALEXANDER BERNHARD DRÄGER, Lübeck, Germany. Filed June 9, 1921. Serial No. 476,286. 4 Claims. (Cl. 128—142.)

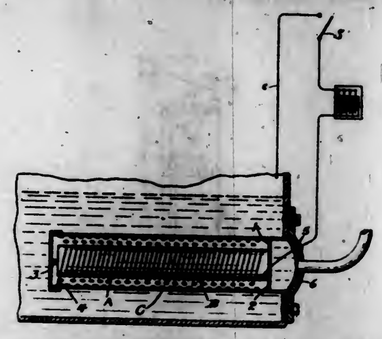
1. In a helmet or mask for use with respiratory apparatus, the combination of a rigid face covering having an inlet opening, a breathing mouth-piece movably mounted in said inlet opening and extending into said face covering, said mouthpiece being capable of movement relatively to said rigid face covering within the same to an operative position in registry with the mouth of the wearer and to an inoperative position out of registry therewith when

the apparatus is in use, and a breathing device connected with the said mouthpiece and suspended thereby without



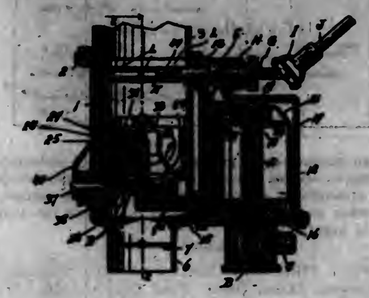
strain upon the face covering when said mouthpiece is in its operative position.

1,395,949. ELECTRICALLY-HEATED OIL-STRAINER. WALTER HERBERT ECKMAN, Mankato, Minn. Filed Apr. 28, 1920. Serial No. 376,176. 1 Claim. (Cl. 219—38.)



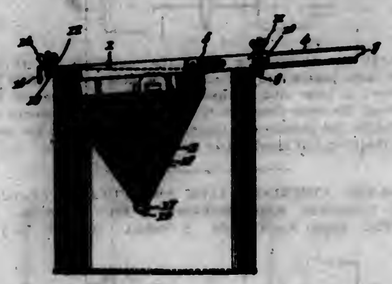
In combination with a crank case of an internal combustion engine, a cylindrical strainer arranged in said crank case at one end thereof curved outwardly and formed with a constricted outlet port, a bracket plate having a concave-convex portion formed therein for receiving and supporting said curved end of the strainer thereupon, said bracket plate having an outlet port corresponding to the port in the strainer, the remaining end of the strainer being closed, an elongated insulating support arranged within said strainer having a marginal flange formed on one of its ends for maintaining the body of the support in spaced relation from the walls of the strainer, an insulating piece engaging the opposite end of the support and the corresponding end wall of the strainer for maintaining the adjacent portion of the support spaced from the wall of said strainer but to permit of engagement with the support upon removal of the adjacent end closure of the strainer, and a resistance unit arranged upon the insulating support.

1,395,950. VACUUM-CARBURETER. WILLIAM J. BELL, Monte Vista, Colo., assignor to The Vacuum Carbureter Company, Monte Vista, Colo., a Corporation of Colorado. Filed Mar. 28, 1917. Serial No. 158,077. 4 Claims. (Cl. 261—48.)



4. A carbureter comprising a casing having an air passage, a fuel reservoir, a fuel nozzle communicating with the fuel reservoir and with the air passage, means for varying the air pressure on the fuel in the reservoir in accordance with the requirement of a motor, said means comprising a tubular member, one end of which projects into the air passage and the other end of which is in communication with the upper part of the fuel reservoir, the portion of said tube extending into the air passage being provided with one or more openings in one side thereof, and means for rotating said tubular member so as to change the direction of said openings with respect to the air currents in said passage whereby the relationship between the air currents and the pressure on said fuel may be varied at will.

1,395,951. CONICAL STRAINING DEVICE. GUY W. FREDON, Crosskill, N. J. Filed Dec. 10, 1919. Serial No. 343,704. 12 Claims. (Cl. 210—149.)



1. In a strainer, in combination, a frame, supporting wires or rods secured to said frame, a bottom cap in which the ends of said wires meet and are secured, a clamping screw adapted to pass through a hole drilled through said cap and wires, a nut on the inside of the strainer engaging the screw whereby the wires are clamped between the nut and the cap, and perforated metal sheet material secured to said wires and frame, the bolt and nut serving as a knocking knob for the device.

1,395,952. WRENCH. JOHN J. FRABO, Brightwood, Mass. Filed June 18, 1921. Serial No. 478,614. 2 Claims. (Cl. 81—168.)

1. A wrench comprising a frame including spaced parallel arms and a handle extending from said arms, a

transverse member connecting said arms, a shank slidable in said member between the arms, oppositely extending jaws carried by the shank, a jaw carried by one of the



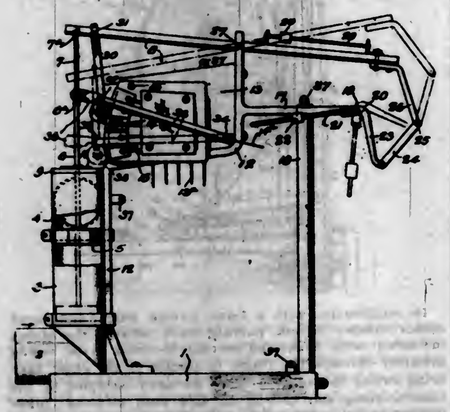
arms and coöperating with one of the shank-carried jaws, a pivotally movable jaw secured to the other arm and operating within the transverse member, and means for operating the shank to adjust the jaws.

1,395,953. TELEGRAPHIC SYSTEM. ENRICO FRATTOLA, VITALE EGISTO CASTELLI, and ROMUALDO RENONI, Rome, Italy. Filed Jan. 25, 1919. Serial No. 273,142. 1 Claim. (Cl. 178—69.)



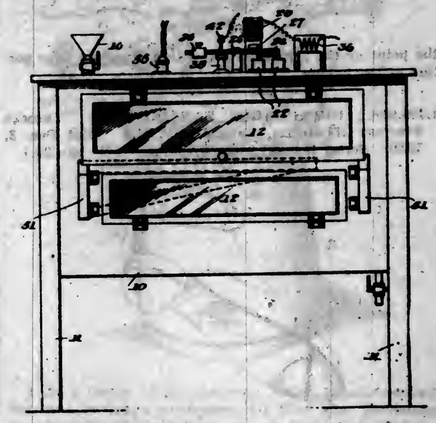
A system adapted to telegraphic lines for receiving purposes where such lines use alternating currents of relatively high frequency and are exposed to perturbation currents from electric traction lines and the like, said system comprising in substantial resonance with the line, a polarized relay of great inductance and a condenser of low capacity in series with said relay, whereby there is presented a strong obstruction to perturbation currents.

1,395,954. VENTILATING SIGNAL APPLIANCE FOR MINES. JAMES F. GAMILL, Fredericktown, Pa. Filed July 19, 1919. Serial No. 312,009. 6 Claims. (Cl. 200—82.)



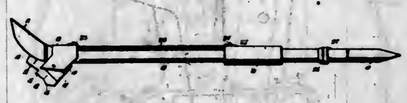
4. The combination of contact segments having a pair of stop posts mounted adjacent thereto, a pivoted arm limited in its movements by the posts, a counterbalanced wheel carried by said arm and movable over the contact segments, and means operated by air pressure for swinging said arm.

1,395,955. INCUBATOR. HERMAN GENTIS, Victoria, British Columbia, Canada. Filed Oct. 3, 1919. Serial No. 328,321. 2 Claims. (Cl. 219—20.)



1. In an incubator, an electric heater, a thermometer, an adjustable contact disposed within the bore of said thermometer and adapted to be contacted with by the column of mercury therein, said heater being included in a circuit with a source of current, and an electro-magnetically controlled switch interposed in said circuit and connected with the column of mercury in said thermometer and with said contact member, said switch comprising a pair of spaced mercury cups, a pivoted lever, an inverted U-shaped member carried by the lever and dipping into said cups, an adjustable counter-balancing weight on said lever, and an armature on the lever attractable by said magnet.

1,395,956. SPIKE-PULLER. JAMES B. GILLIS, ROY J. RHODES, and HOLLIS J. LOWE, Salisbury, Md. Filed Feb. 21, 1920. Serial No. 360,377. Renewed July 23, 1921. Serial No. 487,131. 3 Claims. (Cl. 254—25.)

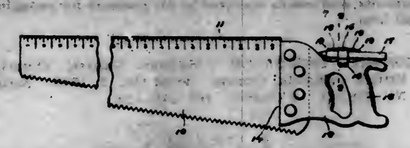


1. The combination with a claw bar, of a fulcrum member adjustably mounted thereon, a channel shaped fulcrum holder slidably embracing the bar and connected to the fulcrum member, a sleeve slidably mounted on the bar and connected to the fulcrum holder and means carried by and surrounding the bar for holding the sleeve against movement.

1,395,957. SAW. EDGAR L. GRIFFIN, Lubec, Me. Filed Apr. 4, 1919. Serial No. 287,488. 1 Claim. (Cl. 145—108.)

The combination with a tool handle having curved and rounded edge portions and flat sides, of a U member including outwardly extending end portions conforming to the edge portions of the handle, said U member forming a pencil holding device, and a spring passing through the U member in a transverse direction and positioned for engaging the pencil in a longitudinal direction and hold-

ing the latter in contact with the edge portion of the handle not engaged by the hand when the tool is in use,



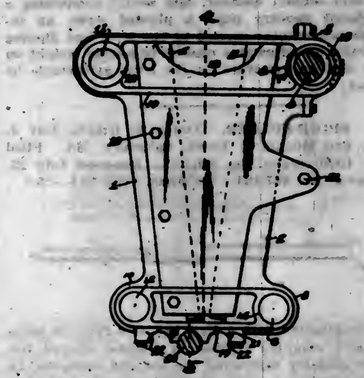
the point of the pencil resting within a curved edge portion of the handle.

1,395,958. DETACHABLE DANCING-SOLE. THOMAS STEWART HAMILTON, Kansas City, Mo. Filed Dec. 3, 1920. Serial No. 427,970. 6 Claims. (Cl. 36—25.)



1. A detachable sole for shoes comprising a body portion having an anti-frictional surface, and means on the other surface for securing the sole to a shoe.

1,395,959. ORE-CRUSHER. JOHN HERMAN, Los Angeles, Calif. Filed May 27, 1920. Serial No. 384,699. 1 Claim. (Cl. 83—53.)



A crusher comprising jaws movable relative to one another and arranged respectively for oscillatory movement and for combined oscillatory and reciprocatory movement, a driving connection at one end of said jaws, a connecting loop at the opposite end of said jaws, and means for pivotally mounting said connecting loop intermediate of its ends.

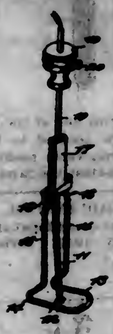
1,395,960. TACK OR NAIL. CHARLES K. HILL, Cleveland, Ohio, assignor to The H. C. Tack Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 3, 1916. Serial No. 112,866. 1 Claim. (Cl. 85—36.)

As a new article of manufacture, a tack or nail comprising a shank, a head of generally rounded external form and hollowed out on its under side so as to leave a relatively thin shell, and radial ribs on the under side of said head, said ribs sloping downwardly and outwardly and lying entirely within said head, the peripheral edge



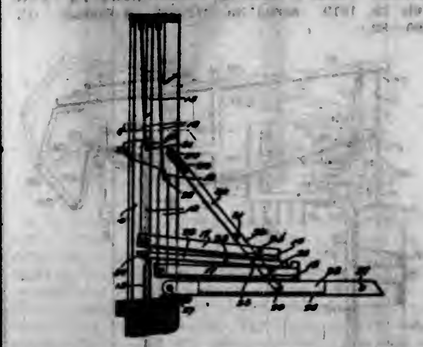
of the latter being turned inwardly, and said head and ribs being fashioned from the material of said shank and remaining integral therewith, substantially as described.

1,395,961. EMBROIDERY-MACHINE. JAMES EDWARD HODGSON, New York, N. Y. Filed Dec. 4, 1920. Serial No. 428,316. 2 Claims. (Cl. 112—80.)



1. In a device of the class described, the combination of a tubular needle having an angularly bent lower portion, a length of wire bent to form a foot and an offset portion and a pair of legs lying parallel with said needle, a guide member securing the legs of said wire together and forming a guideway for said needle, and a guide member secured to said needle between the first guide member and said foot and embracing said legs.

1,395,962. WINDOW CONSTRUCTION. JOHN H. HOLMES, Enterprise, Oreg. Filed Dec. 4, 1918. Serial No. 266,908. 1 Claim. (Cl. 20—42.)



In combination with a frame having weight influenced sashes slidable therein, parting beads between the sashes including each, a pivoted section designed to be swung inwardly through the frame to permit of the outer sash being swung through the space normally occupied by the bead sections and to rest on said bead sections; inner pivoted beads on the sides of the frame normally contacting with the inner sashes and having pockets in the sides thereof, pivotally connected links one of them being pivoted in the pocket of each of the beads and the other

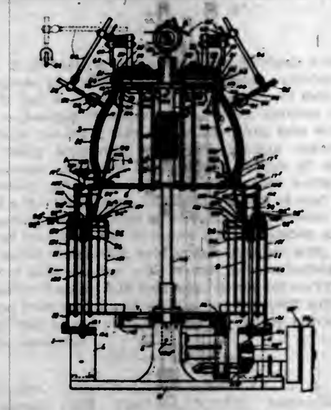
having an elongated slot receiving a pivot therethrough that enters the sides of the frame, said links when extended to parallelism designed to support the beads in horizontal position for sustaining the sashes thereon when the latter are swung outwardly, and the links when folded designed to enter the pockets of the beads when the latter are swung inward of the frame to return the sashes to their upright positions, and means for locking the beads on the sides of the frame.

1,395,963. METHOD OF AND APPARATUS FOR FORMING GLASS TUBES. KARL KÜPFMÜLLER, Aachen, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed May 19, 1919. Serial No. 298,309. 4 Claims. (Cl. 49—86.)



1. A process for the production of reinforced glass tubes which comprises placing a skeleton body upon a suitable mandrel, then placing a glass tube upon said skeleton body and said mandrel, closing one end of said glass tube, evacuating said tube, sealing the other end of said tube, and heating said tube by means of a suitably heated ring-shaped member with relative movement of said tube in order to heat its entire surface whereby the glass passes through the interstices of said skeleton body and conforms to the shape of said mandrel.

1,395,964. REED-WEAVING MACHINE. MARSHALL B. LLOYD, Menominee, Mich., assignor, by mesne assignments, to Heywood-Wakefield Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 9, 1918. Serial No. 257,462. 19 Claims. (Cl. 139—2.)



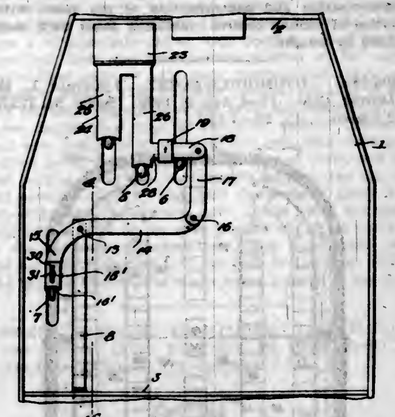
1. An apparatus for weaving reed fabric and the like embodying therein fabric templet members swingably mounted for movement to an outer operative position and to an inner inoperative position, means formed to receive and hold stakes in weaving relation thereto, and means for effecting the placement of a filler strand upon the outer side of some stakes and upon the inner side of others whereby a fabric can be formed as a separate unit apart from the fabric templet members.

1,395,965. ATOMIZING AND SPRAYING DEVICE. EDWARD J. MCLEAN, San Francisco, and STEPHEN W. MCGAVRAN, Burlingame, Calif. Filed Aug. 13, 1919. Serial No. 317,124. 2 Claims. (Cl. 299—95.)



1. In a device of the character stated, a paint-containing tank having a compressed air inlet pipe discharging in proximity to its bottom, an air and paint discharge pipe having its inlet end in proximity to the discharge end of the compressed air inlet pipe and having its outlet end adapted for connection with a discharge hose, a valve controlled bypass between said pipes, and a removable cover for said tank, said pipes and by-pass being mounted on and supported by said cover.

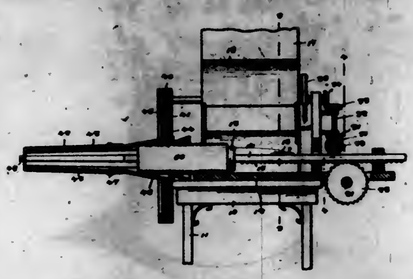
1,395,966. PEDAL-LOCK. JOSEPH C. MCMANUS, Jacksonville, Fla. Filed Sept. 13, 1920. Serial No. 409,866. 3 Claims. (Cl. 70—126.)



1. In combination with an automobile having control pedal levers and an emergency brake lever; of obstructing means for the clutch levers and brake lever, comprising a plate hingedly secured to the foot board of the machine adjacent to the front seat thereof, an arm pivoted to the plate having an angle end designed when the said arm is swung to one position to offer an obstruction for the emergency brake lever, hinged sections one of which being fixed to the foot board adjacent to the dash of the machine, and including arms designed, when the members

are spread to be arranged in the path of contact with two of the control levers, means carried by the first mentioned arm and one of the last mentioned arms for locking the same together, and said means also providing an obstructing element for the remaining clutch levers.

1,395,967. MACHINE FOR STUFFING MEAT AND LIKE PROVISIONS. CARLO MESLI and GIUSEPPE BERTOLINI, New York, N. Y.; said Bertolini assignor of his entire right to Victor Kleinberg, Salvatore Mangiapane, and Frank Fumo, New York, N. Y. Filed Sept. 4, 1920. Serial No. 408,207. 3 Claims. (Cl. 17—6.)

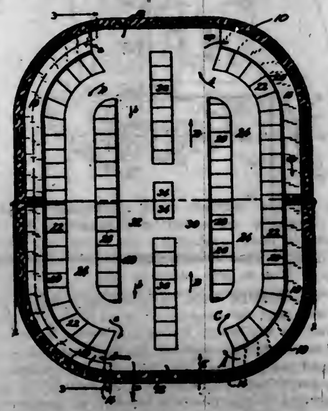


1. In a meat stuffing machine, a base, a casting mounted upon the base and designed to receive the meat, means for feeding the meat to said casting, a plunger arranged to reciprocate through the casting, means for reciprocating said plunger, and a skin holder arranged in advance of the casing and in which the meat is forced by means of of said plunger.

1,395,968. METHOD OF PREPARING RESIN. STUART P. MILLER, Philadelphia, Pa., assignor to The Barrett Company, a Corporation of New Jersey. Filed Dec. 24, 1920. Serial No. 432,968. 4 Claims. (Cl. 134—26.)

1. In the process of producing resin from naphtha, the step which consists in washing said naphtha, after polymerization and neutralization of the same, with a solution of sodium chlorid containing about 20% sodium chlorid by weight.

1,395,969. AUTOMOBILE-HOTEL. LEONIDAS L. MOE, Denver, Colo. Filed Apr. 9, 1920. Serial No. 372,596. 2 Claims. (Cl. 20—1.13.)



1. An automobile hotel comprising a plurality of floors, a series of inclined drives on one side of the building connecting the floors for the use of incoming cars, a separate series of inclined drives on the other side of the building connecting the floors for the use of outgoing cars, the two series being duplicates, and all of the drives of each being inclined in the same direction, and drives provided on the several floors connecting the ends of the inclined drives of the respective series.

1,395,970. AUTOMOBILE-LOCKING DEVICE. JOSEPH O. NIEDERMAIER, War, W. Va. Filed Aug. 20, 1920. Serial No. 404,733. 2 Claims. (Cl. 70—30.)



1. A locking device comprising a casing provided at opposite sides with extensions, one extension being formed with a threaded hole and the other being formed with a slot, a hook having a shank screwed into said threaded hole, a second hook having a shank slidable through said slot, and locking means carried by said casing for holding said second named hook against movement.

1,395,971. PITMAN CONSTRUCTION. JAMES H. OKELL, Los Angeles, Calif., assignor to Okell Well Machinery Company, a Copartnership consisting of Cora M. Lane and George H. Okell, Los Angeles, Calif. Filed Mar. 30, 1920. Serial No. 367,329. 1 Claim. (Cl. 74—48.)



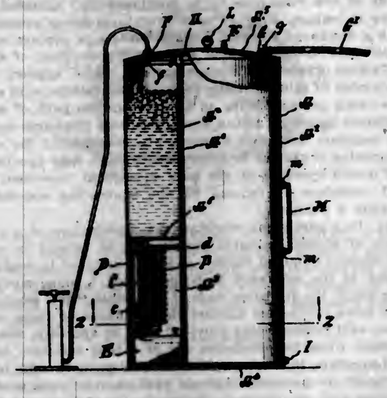
A pitman comprising a pair of slidably mounted telescoping lineal members, a compression spring interposed between said members, and a spacing member adapted to be inserted between said lineal members, whereby said spring may be rendered inoperative.

1,395,972. STYLUS-BAR MOUNTING FOR SOUND-BOXES. HAROLD Y. PRENDERGAST, New York, N. Y. Filed Mar. 26, 1920. Serial No. 368,835. 11 Claims. (Cl. 274—35.)



1. A sound box, a stylus bar movably engaging said box, and means arranged wholly within said box to exert a tension on said bar.

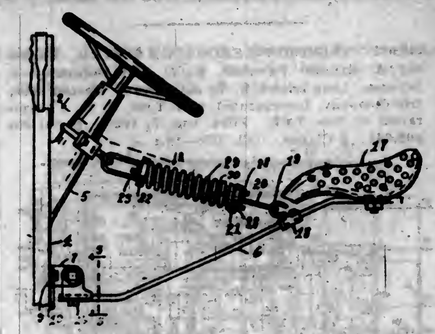
1,395,973. PORTABLE STEAM-GENERATOR. WALTER E. PROSSER, Louisville, Ky., and ALBERT B. HIGGINS, Buffalo, N. Y. Filed July 19, 1920. Serial No. 397,221. 6 Claims. (Cl. 122—35.)



1. A portable steam generator comprising a cylindrical container provided with a longitudinal partition separating it into a steam chamber on one side of said partition and a heating chamber and a water chamber above the same on the other side of said partition, said water chamber being separated from said heating chamber by a transverse partition forming the bottom of said water chamber and the said heating chamber being provided with a lateral opening through the shell of said container, a heating coil mounted in said heating chamber and opening at its upper end into said steam chamber, a feed pipe for water connecting said water chamber with the lower end of said heating coil, means for controlling the flow of water through said feed pipe, means for carrying off the steam from said steam chamber, and a check valve opening from said steam chamber into the upper portion of said water chamber.

1,395,974. SHOCK-ABSORBER. WILLIS B. REDFIELD, Downey, Calif. Filed May 3, 1920. Serial No. 378,437. 2 Claims. (Cl. 155—51.)

1. In a tractor having a steering column; in combination, a base hinge mounted on the steering column, said hinge comprising an upper leaf having a pair of ears and being adapted to be secured to the dashboard of the machine, and having a lower leaf pivotally secured to the upper leaf; a seat bar secured to said lower leaf; a seat on said bar; an adjustable clamp on said bar; a hook secured to said clamp; an adjustable clamp on the steering column; a hook secured to said last clamp; a pair of



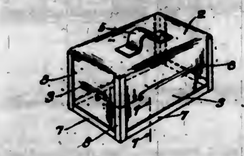
end plates; U-shaped members slidably mounted in said plates and secured in said hooks; and a spring between said plates.

1,395,975. SANITARY VENDING-TRAY FOR EATABLES. JAMES W. RILEY, Los Angeles, Calif. Filed Mar. 16, 1920. Serial No. 366,335. 1 Claim. (Cl. 45—71.)



A sanitary cover for street venders' trays, comprising a single sheet of pliant transparent material, cut to form a substantially oblong body portion, a leaf portion extending from the intermediate portion of the upper longitudinal edge of said body portion and being substantially shorter than the body portion, the ends of said leaf portion being cut inwardly from the juncture of the upper longitudinal edge of the body portion therewith, said cuts being an extension of the said edge, said body portion being bent to form a front and ends, and the leaf portion being bent downwardly to form the top, the end portions thereof being bent downwardly along lines extending at substantially right angles from the upper longitudinal edge of the body portion and from the ends of the inwardly extending cuts, said downwardly bent end portions extending over the ends of the body portion and secured thereto, the whole being secured to the tray.

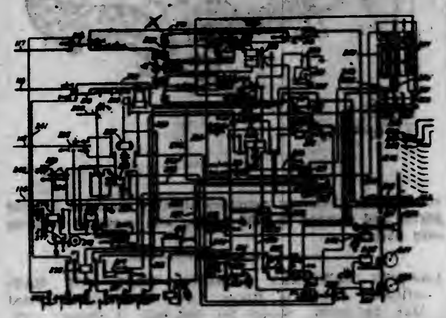
1,395,976. SANITARY FOOD-COVER. JAMES W. RILEY, Los Angeles, Calif. Filed Nov. 16, 1920. Serial No. 424,481. 2 Claims. (Cl. 65—16.)



1. A sanitary cover formed of a blank having the adjacent edge portions thereof overlapped to form side walls

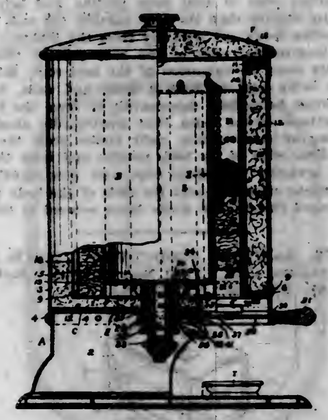
for the top of said cover, and a reinforcing clip received around the lower edges of said overlapping portions for retaining the same in position to form side walls.

1,395,977. TELEPHONE-EXCHANGE SYSTEM. FRANKLIN A. STEARN, Paterson, N. J., and FREDERICK J. SCUDDER, Long Island, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 7, 1920. Serial No. 402,041. 9 Claims. (Cl. 179—18.)



1. In a telephone system a calling subscriber's line, selector switches for extending a talking circuit from said line to a distant point over a trunk circuit, means for controlling the setting of said switches comprising a plurality of registers and a plurality of locking relays, said relays being controlled by said registers, a repeating coil in the talking circuit, and means controlled by said relays for altering the characteristics of said coil in accordance with the nature of the trunk circuit over which the talking circuit is extended.

1,395,978. PORTIONING MECHANISM. JOHN F. WINELAND, Crafton, Pa. Filed Nov. 25, 1919. Serial No. 340,500. 24 Claims. (Cl. 31—65.)



1. In a portioning machine, the combination of a dispensing container adapted to contain a quantity of the substance to be portioned and provided with a discharge opening, a surface adapted to seal said discharge opening against the protrusion of said substance, said surface being interrupted, means for providing relative movement between said container and said surface, means whereby when said surface is out of contact with said opening the contents of said container will be protruded from said container beyond the plane of said surface, and means, actuated by the next subsequent relative movement, for slicing off the protruding substance to form a portion.

6. In a portioning machine, the combination of a dispensing container adapted to contain a quantity of the substance to be portioned and provided with a discharge opening, a surface adapted to seal said opening against the protrusion of said substance, said container being movable in relation to said surface and said surface being provided with an aperture in the path of said discharge opening, means whereby when said opening registers with said aperture the contents of said container will be protruded from said container beyond the plane of said surface, means for limiting the extent of such protrusion, and means operated by the next subsequent movement of said container for slicing off the protruding substance to form a portion.

13. In a portioning machine, the combination of a plurality of dispensing containers adapted to contain quantities of the substance to be portioned and mounted to move in unison, each of said containers being provided with a discharge opening, a plane surface in contact with which said openings travel during the movement of said containers whereby said openings are sealed against the protrusion of said substance from said containers, said surface being provided with an aperture in the path of said discharge openings, means whereby when a discharge opening registers with said aperture the contents of the corresponding container is protruded through said aperture, and means operated by the next subsequent movement of said container for slicing off the protruding substance to form a portion.

24. In a portioning machine, the combination of a plurality of dispensing tubes mounted to be rotated in unison about a common center, and each adapted to contain a slab of the substance to be portioned, a plane surface over which the discharge ends of said tubes travel whereby said tubes are sealed against the discharge of their contents, said surface being provided with an aperture, means whereby when the discharge end of a tube registers with said aperture the end of the slab contained in said tube is caused to protrude through said aperture, means for limiting said protrusion to determine the thickness of the portion, and a knife edge in the plane of said surface intercepting the path of the protruding end whereby the next subsequent movement of the tube causes the protruding end of the slab to be sliced off to form the portion.

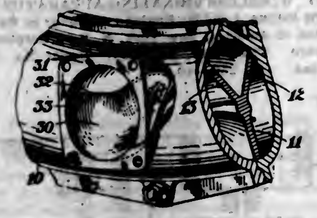
32. In a portioning machine, the combination of a plurality of dispensing containers, each adapted to contain a quantity of the substance to be portioned and each provided with a discharge opening, a plane surface, means for moving said containers in unison in contact with said plane surface whereby said discharge openings are sealed against the protrusion of the contents of said containers, said surface being provided with an aperture, means whereby when one of said discharge openings registers with said aperture the contents of said container is protruded through said aperture, means for limiting such protrusion, and a knife edge intercepting the path of said protruding substance whereby the next subsequent movement of said container causes said protruding substance to be sliced off to form a portion while the container resumes contact with said plane surface to hold the remainder of its contents retracted within said container.

1,395,979. GAS-SAVING ATTACHMENT FOR BURNERS. ALBERT ACKRON, Pittsburgh, Pa. Filed Mar. 3, 1921. Serial No. 449,302. 10 Claims. (Cl. 158—113.)

1. A fuel saving attachment for gas burners adapted to be superimposed on the burner and comprising a central downwardly extending cylindrical throat, an annular horizontal portion surrounding the upper end of said throat, an annular raised portion surrounding said annular horizontal portion, and provided with gas openings, and a downwardly and outwardly inclined perimetral apron surrounding said raised portion.

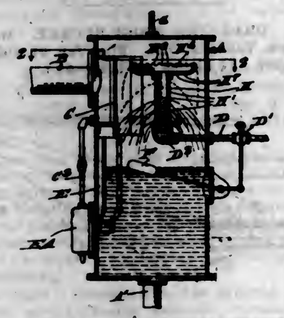


1,395,980. INDUCTION-PIPE FOR RADIAL OR ROTARY INTERNAL-COMBUSTION ENGINES. ALFRED HUBERT ROY FEDDEN and LEONARD FREDERICK GEORGE BUTLER, Bristol, England, assignors to The Bristol Aeroplane Company Limited, Bristol, Gloucester, England. Filed Nov. 30, 1920. Serial No. 427,385. 6 Claims. (Cl. 123—52.)



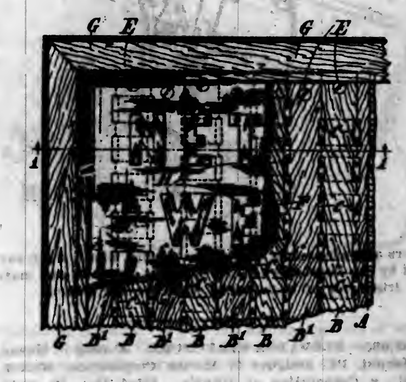
1. An induction pipe comprising in combination a plurality of endless conduits each arranged to supply a group of cylinders, means in each conduit situated between the inlet and one of the nearest outlets of the conduit so as to permit flow from the inlet in one direction only along the conduit.

1,395,981. WATER-HEATER. JOSEPH W. GAMBLE, Philadelphia, Pa., assignor, by mesne assignments, to H. S. B. W.-Cochrane Corporation, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 20, 1918. Serial No 254,863. 3 Claims. (Cl. 261—118.)



1. In an open water heater, the combination with a heating chamber having a steam inlet opening into its upper portion and the water outlet opening from its lower portion, of water supply means comprising a conduit having a vertical portion which is located in said chamber and receives the water to be heated at its lower end, said vertical conduit portion having restricted outlet orifices formed in it at different levels, and of an aggregate discharge capacity greater than the water supplied to the conduit.

1,395,982. DISPLAY DEVICE. FREDERICK SAMUEL GEE, London, England. Filed Mar. 7, 1921. Serial No. 450,362. 3 Claims. (Cl. 40—142.)



1. In a display device of the type described, in combination, a support comprising a non-magnetic base member adapted to receive a plurality of horseshoe magnets with their yokes abutting said base member, and a series of parallel spacing strips abutting the outsides of the magnet shanks and so recessed as to engage said shanks and locate the magnets in parallel rows and in any desired space relationship in each row, said strips extending across the base member and having their ends secured thereto at or near opposite edges thereof.

1,395,983. CALCULATING-MACHINE. FRANK EDWARD GUY, New South Gate, London, England. Filed Jan. 17, 1921. Serial No. 437,892. 12 Claims. (Cl. 235—63.)



1. In a calculating machine having a laterally movable totalizer-carriage, means for retaining said carriage in relation to the machine, means for disengaging said retaining means, and a slidable member restricted in movement to correspond with one step of said carriage in either direction, said slidable member being engaged with said carriage simultaneously with the disengagement of said retaining means by a lateral motion of an operating device in the direction of the desired travel of the carriage.

1,395,984. DOLL. AUBREY D. MCCROSKY, Oakland, Calif., assignor of one-half to Bynum B. McCrosky, Oakland, Calif. Filed July 19, 1920. Serial No. 397,480. 2 Claims. (Cl. 46—40.)

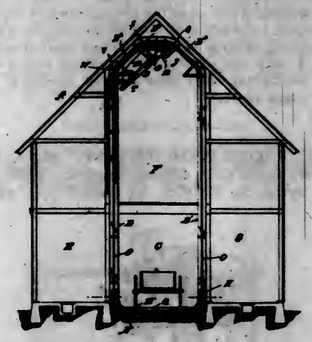
1. In combination with a hollow doll head, of eyeballs fixed together and pivotally mounted and having irises to register with the sockets, a cam extending rearwardly of the eyes, two weighted levers pivotally mounted to

swing in horizontal planes at right angles to each other, a knurled wheel, a pawl pivoted to each of the weighted



levers and adapted to engage the knurled wheel, a pin carried by the knurled wheel for engaging the cam, and move the irises out of engagement with the eye sockets.

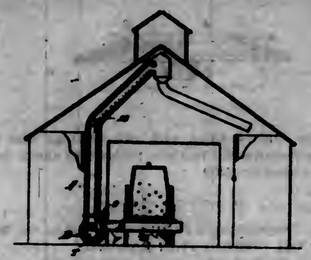
1,395,985. ELEVATOR STRUCTURE. ALFRED F. MEYER, Morton, Ill., assignor to Morton Corporation, Morton, Ill., a Corporation of Illinois. Filed Dec. 19, 1919. Serial No. 346,058. 22 Claims. (Cl. 193—20.)



1. An elevator structure of the class described, including in its construction a single conveyer-portion comprising a trough open at its top, and a leg erected at each end of and connected into the said portion, said legs being spaced to leave a driveway space between them, the said conveyer-portion and the legs including a continuous guideway at each side, an elevating element within the guideways, and rollers arranged to travel in the guideways, supporting the element, the conveyer-portion being unobstructed by other internal mechanism.

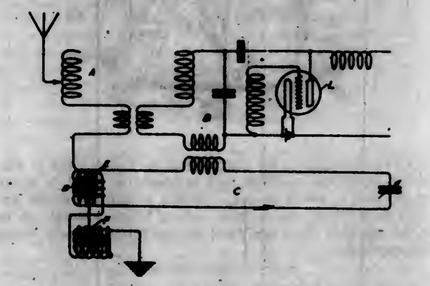
1,395,986. ELEVATOR. ALFRED F. MEYER, Morton, Ill., assignor to Morton Corporation, Morton, Ill., a Corporation of Illinois. Filed Dec. 14, 1917, Serial No. 207,047. Renewed Mar. 31, 1921. Serial No. 457,421. 22 Claims. (Cl. 193—5.)

1. An elevator boot including in its construction an abutment at each of two of its facing sides, a flexible member arranged to travel upon each of the same including elevating devices common to both, one of said sides having an



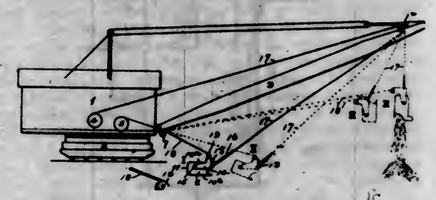
unobstructed opening therein inward from the abutment of said side, the interior of the boot being entirely unobstructed.

1,395,987. WIRELESS SIGNALING APPARATUS. HENRY JOSEPH ROUND, London, England, assignor to Radio Corporation of America, New York, N. Y., a Corporation of Delaware. Filed Mar. 24, 1921. Serial No. 455,252. 7 Claims. (Cl. 250—40.)



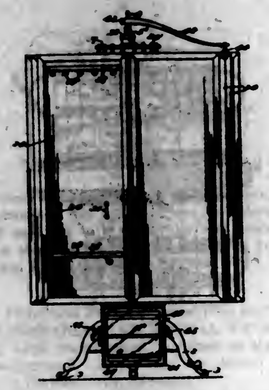
1. The combination with an aerial and a closed circuit of a rotating field motor comprising two windings, one in the aerial circuit and the other in the closed circuit and means actuated by the motor for keeping the period of the aerial constant.

1,395,988. DRAG-LINE SCOOP-BUCKET. HOWARD M. SHERWOOD, Vandalia, Ohio. Filed Jan. 27, 1920. Serial No. 354,508. 14 Claims. (Cl. 37—54.)



1. In a drag line excavator, a scoop bucket, a forwardly extending drag line operatively attached adjacent to the rear of said bucket, by which the bucket is actuated in its operative movement, and a retrieving line attached adjacent to the forward portion of the bucket and a guide upon the drag line connection for said retrieving line, the oscillatory movement of the bucket about its connection with the drag line being controlled by the retrieving line.

1,395,989. RACK. ADAM GORDON BUTTERWORTH, Clarksburg, W. Va. Filed Feb. 18, 1921. Serial No. 446,102. 3 Claims. (Cl. 211—32.)



1. A display member including a supporting pedestal equipped with a plurality of pivotally mounted display panels, means carried by the top of the pedestal and having a portion thereof extended to lie in the path of movement of the panels for rotating the latter on their axes, and means carried by the bottom of the pedestal and in connection with the lower ends of the panels to rotate the latter on their axes in a direction counter to that caused by the first said means.

1,395,990. MANUFACTURE OF BRICKS. WALTER WILLIAM CRAWFORD, Kew Gardens, Surrey, England. Filed Jan. 5, 1921. Serial No. 435,241. 3 Claims. (Cl. 18—47.5.)

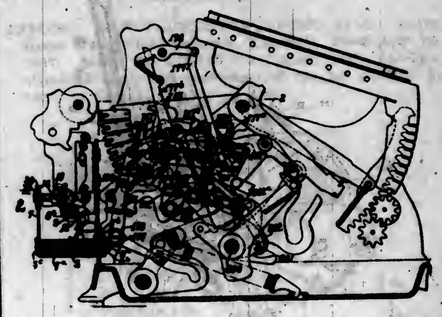
1. The method of manufacturing bricks and the like, which comprises burning a suitable gangue in an oxidising atmosphere, then mixing the burned material with a relatively small quantity of dehydrated cement, then moistening the mixture and pressing the same into form, then immersing said pressed form in cold water, and finally drying the pressed bricks at a low temperature.

1,395,991. ADDING-MACHINE. MALCOLM F. GASCON, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 7, 1919. Serial No. 275,538. 9 Claims. (Cl. 235—60.)

1. In a machine of the class described, the combination of printing mechanism subdivided for multi-column work, a laterally shiftable paper carriage, means for separately preventing printing operations in the different subdivisions of the printing mechanism, and means variably set by the paper carriage, in its different column positions to determine the extent of imprint-elimination according to said subdivisions.

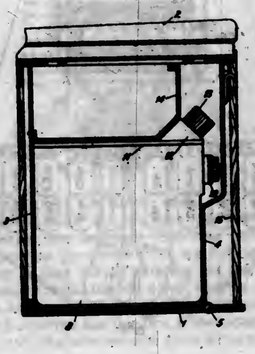
2. The claim 1 combination, the printing mechanism comprising spring-actuated hammers, retracting means and restraining devices, together with connections for tripping certain of said devices, and means controlled by the paper carriage for bringing said connections into action to cause early release of hammers and thereby deprive them of percussive effect.

9. In a machine of the class described the combination of hammers, latches, pitmen connected to certain latches and having catches, a bail to act on said catches, a rotary rod with projections for setting the catches, a rack to rotate the rod, a pawl to lock the rack, a reciprocating machine element, a system of levers and links connected



therewith and with the said bail and one member of which operates upon said pawl, a laterally shiftable carriage, and means controlled thereby for setting the rack bar.

1,395,992. STORAGE-BATTERY CONSTRUCTION. WARREN P. LOUDON, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Feb. 13, 1918. Serial No. 216,989. 7 Claims. (Cl. 204—53.)

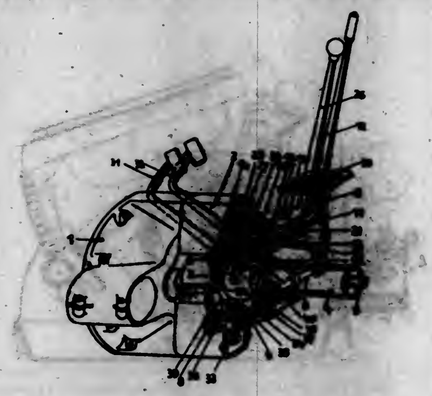


1. A storage battery cell having terminal posts extending from one of the side walls thereof, said cell having a filling and inspection aperture adjacent to said side wall.

1,395,993. OPERATING MECHANISM FOR POWER-DRIVEN VEHICLES. ARNOLD ZOLLER, Berlin, Germany, assignor to Argus-Motoren-Gesellschaft M. B. H., Berlin-Reinickendorf-Ost, Germany. Filed Apr. 29, 1921. Serial No. 465,505. 4 Claims. (Cl. 74—39.)

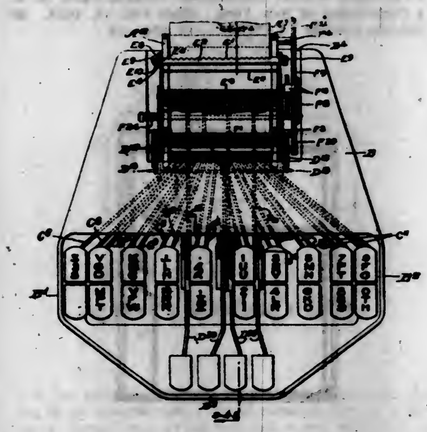
1. In mechanism of the kind described in combination, a speed gear casing, an operating gear casing connected with said speed gear casing and two pairs of shafts, each

pair composed of a solid shaft and a hollow shaft surrounding said solid one, mounted symmetrically on said



operating gear casing, said pairs of shafts serving for operating the speed gear, clutch and brakes, respectively, of said vehicle.

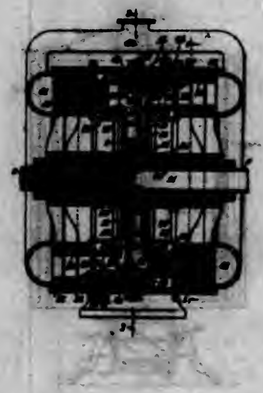
1,395,994. MULTIPLE-IMPRESSION TYPEWRITER. PAUL P. BOURQUIN, Philadelphia, Pa. Filed Jan. 27, 1919. Serial No. 273,226. 34 Claims. (Cl. 197—9.)



1. In a typewriting machine, two sets of printing keys, a universal bar common to both sets, ribbon and paper feed mechanisms operated by said bar, a second universal bar operated from the first universal bar, and separate type bar shifting mechanisms for the two sets of keys both operated by the second universal bar.

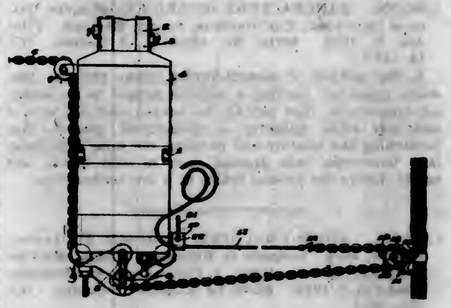
1,395,995. ROTARY INTERNAL-COMBUSTION ENGINE. JOHN WILLIAM GEORGE, Stroud Green, England. Filed Jan. 26, 1920. Serial No. 354,238. 7 Claims. (Cl. 60—41.)

1. A rotary internal combustion engine comprising an outer casing, a drum mounted for rotation within the casing, induction and compression chambers formed in the casing at the ends of the drum, combustion chambers communicating with said induction and compression cham-



bers, and vanes movable in the drum and operable by the wall of the compression and induction chambers, said vanes moving parallel to the axis of the drum.

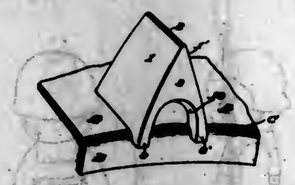
1,395,996. MINING-MACHINE. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed May 23, 1918, Serial No. 236,225. Renewed Mar. 30, 1921. Serial No. 457,028. 15 Claims. (Cl. 262—30.)



1. In a mining machine, a frame having a cutter bar projecting therefrom, feeding mechanism therefor including a flexible feeding member disposed in front and rear thereof, a fixed guiding member around which the rear end of said feeding member is directed back toward said frame, and an adjustable clamp on the rear end of said frame controlling the movement of said feeding member.

3. In a mining machine, a frame having a cutter bar projecting therefrom, flexible feeding means therefor including a member having a portion extending rearward and back toward the rear end of said frame, means on said frame for varying the length of said portion, guiding means around which said portion extends, and automatically acting controlling means controlling the movement of said portion relative to said guiding means.

1,395,997. TRACTIVE LUG. DAVID R. RICHIE, Lansdowne, Pa., assignor to S. L. Allen & Co., Inc., a Corporation of Pennsylvania. Filed July 15, 1920. Serial No. 396,367. 5 Claims. (Cl. 301—44.)

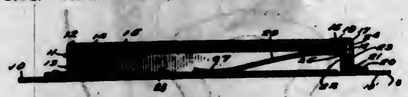


4. A tractive lug comprising a body portion, a pair of spaced overhanging lips adjacent one end thereof, means for securing said lug to a wheel rim and spaced surfaces adjacent the sides of said body adapted to rest on said rim when said lug is positioned thereon.

1,395,998. PROCESS FOR SEPARATING FATTY ACIDS FROM VEGETABLE AND ANIMAL FATS. LUDWIG SCHMIDT, Arth, Switzerland, assignor to Mario Arbini, Basel, Switzerland. Filed Mar. 20, 1920. Serial No. 367,374. 3 Claims. (Cl. 87—12.)

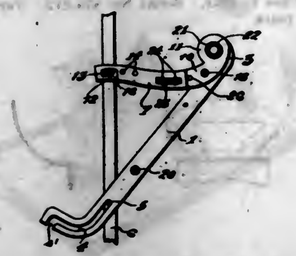
1. A process for separating fatty acids from vegetable or animal fats, in order to obtain at the same time a neutral fat free from soap and a dry alkali soap ready for use, consisting in treating the fats with an alkali compound free of water, with exclusion of water, and removing the water produced by the reaction and separating the soap from the fat by means of a dry solvent dissolving only the neutral fat.

1,395,999. DISPLAY-CASE FOR LICENSE-CERTIFICATES. SAMUEL R. SEMES, Vanderbilt, Pa., assignor to Harmon M. Kephart, Connellsville, Pa. Filed Jan. 20, 1921. Serial No. 438,707. 2 Claims. (Cl. 40—17.)



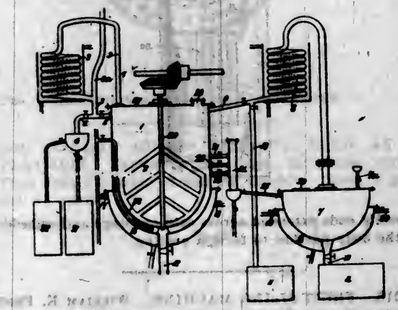
1. In a display case for certificates and the like, a casing comprising rigid sides and a bottom rigidly secured thereto said casing having a transparent top, one of said sides being provided with a narrow opening positioned above said bottom for the insertion of a certificate, and a spring within the casing adapted to hold the certificate against the bottom of the casing.

1,396,000. FOOTREST. ERNEST H. COBLE, Jackson, Mich. Filed Apr. 2, 1921. Serial No. 457,955. 3 Claims. (Cl. 155—168.)



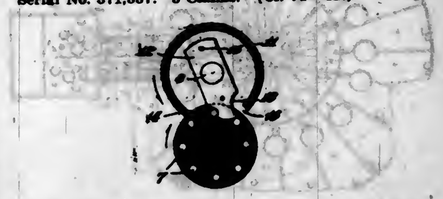
1. In a foot rest attachment for radiators, upper brace arms each comprising a pair of adjustably connected sections, said arms provided with bayonet slots in their attaching ends, downwardly inclining braces one associated with each of said upper arms and provided with arcuate bayonet slots in their lower ends, and a foot rest rod carried by said arms and braces.

1,396,001. MANUFACTURE OF PICRIC ACID. DAVID BAIRD MACDONALD, Leicester, England. Filed July 10, 1917. Serial No. 179,775. 2 Claims. (Cl. 23—24.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In the process of producing picric acid wherein mercury and nitric acid are treated with benzol, carrying out the reaction during nitration at a low temperature of approximately 35° C. for the purpose described.

1,396,002. INTERMITTENT-MOTION MECHANISM. CARLO E. BIANCHI, Montpelier, Vt. Filed Apr. 5, 1920. Serial No. 371,337. 3 Claims. (Cl. 74—41.)



1. An intermittent movement mechanism comprising a rotating member, lugs on the rotating member, an annular member, a cam having a cam face and a cut-away portion adapted to operate through an opening in the annular member so that the lug entering the annular member is in engagement with the cut-away portion and the lug leaving the annular member is in engagement with the cam until the entering lug lies in a plane common with the axes of the rotating member and annular member.

REISSUES.

15,217. VENTILATED GRAIN-CRIB STAVE. WARREN A. CALDWELL, Oskaloosa, Iowa, assignor to Caldwell Silo Company, Inc., Oskaloosa, Iowa, a Corporation of Iowa. Filed Mar. 21, 1921. Serial No. 454,230. Original No. 1,298,174, dated Mar. 25, 1919, Serial No. 233,518, filed May 8, 1918. 7 Claims. (Cl. 72—6.)

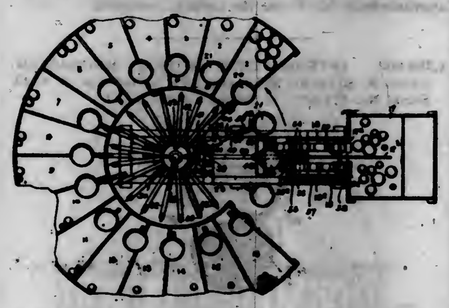
1. A ventilated grain crib stave including an elongated body portion having spaced openings formed therein and extending in the direction of the length of the stave and opening through the opposite side faces thereof, said openings defining an intermediate connecting web, and a plu-

rality of rigid reinforcing bars having their intermediate portions extending through the connecting web and their



opposite ends extended across said openings and embedded in the body portion to form a grating.

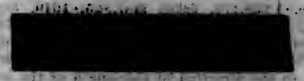
15,218. FRUIT-SIZING MACHINE. WILLIAM K. PRICE, Selah, Wash. Filed Sept. 13, 1921. Serial No. 500,421. Original No. 1,246,463, dated Nov. 13, 1917, Serial No. 80,991, filed Feb. 28, 1916. 19 Claims. (Cl. 130—32.)



1. A machine for sizing fruit or other articles, the combination of a rotatable frame, a receptacle for weighing the fruit, a spring from which said receptacle is suspended, means for changing the tension on said spring during the rotation of said frame, and means brought into operation by the change in tension of said spring to discharge the fruit from said receptacle.

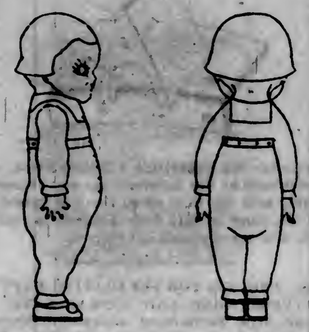
DESIGNS.

59,532. BRAID. LOUIS ADLMAN, New York, N. Y., assignor to Pioneer Braid Manufacturing Co., Inc., New York, N. Y., a Corporation of New York. Filed July 16, 1921. Serial No. 485,304. Term of patent 14 years.



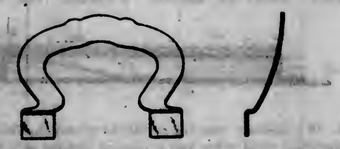
The ornamental design for braid as shown.

59,533. DOLL. EDNA BAIRD and CANNIE MAY ALAS, Des Moines, Iowa. Filed Oct. 28, 1919. Serial No. 334,683. Term of patent 3½ years.



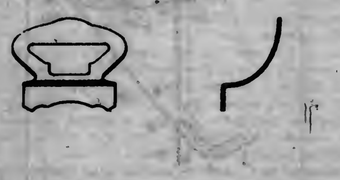
The ornamental design for a doll, as shown.

59,534. HANDLE FOR TRAYS OR SOME SIMILAR ARTICLES. ABRAHAM BARCHOWY, New York, N. Y. Filed June 1, 1921. Serial No. 474,271. Term of patent 7 years.



The ornamental design for a handle for trays or some similar articles as shown.

59,535. HANDLE FOR TRAYS OR SOME SIMILAR ARTICLES. ABRAHAM BARCHOWY, New York, N. Y. Filed June 1, 1921. Serial No. 474,272. Term of patent 7 years.



The ornamental design for a handle for trays or some similar articles as shown.

59,536. HOLSTER FOR TOY PISTOLS. ALEXANDER BARON, Brooklyn, N. Y. Filed Dec. 17, 1920. Serial No. 431,494. Term of patent 7 years.



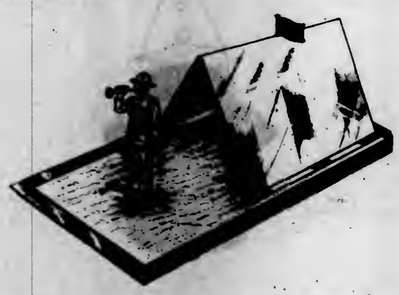
The ornamental design for a holster for toy pistols, as shown.

59,537. CORSET. ABRAHAM S. BECKER, Baltimore, Md. Filed June 2, 1920. Serial No. 386,070. Term of patent 3½ years.



The ornamental design for a corset, as shown.

59,538. TOY. CHARLES W. BRIGGS, Brooklyn, N. Y. Filed Dec. 11, 1918. Serial No. 266,345. Term of patent 3½ years.



The ornamental design for a toy substantially as shown.

59,539. BUTTON. PAUL CASPARY, Chicago, Ill. Filed Mar. 31, 1920. Serial No. 370,354. Term of patent 3½ years.



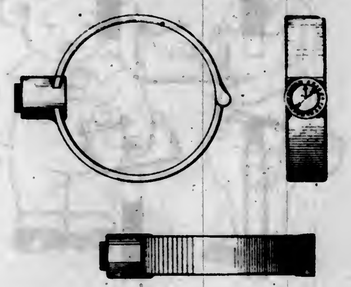
The ornamental design for a button as shown.

59,540. CHILD'S OUTER GARMENT, SUCH AS A PLAY-SUIT. ELIZABETH M. COOK, Belvedere, Calif. Filed June 22, 1921. Serial No. 479,661. Term of patent 3½ years.



The ornamental design for a child's outer garment, such as a play-suit, as shown.

59,541. LOCK. EDGAR A. DE LUE, San Francisco, and CLARENCE E. ANABLE, Sacramento, Calif. Filed June 21, 1921. Serial No. 479,395. Term of patent 14 years.



The ornamental design for a lock, as shown.

59,542. RUBBER BALL OR SIMILAR ARTICLE. FRANK W. DOGGE, New Haven, Conn., assignor to The Seamless Rubber Company, Inc., New Haven, Conn., a Corporation of Massachusetts. Filed July 14, 1921. Serial No. 484,773. Term of patent 14 years.



The ornamental design for a rubber ball or similar article, substantially as shown.

59,543. SPEAKING-TUBE FOR PHONOGRAPHS. NELSON C. DURAND, Newark, N. J., assignor to New Jersey Patent Company, West Orange, N. J., a Corporation of New Jersey. Filed July 27, 1921. Serial No. 488,017. Term of patent 7 years.



The ornamental design for a speaking tube for phonographs, as shown.

59,544. SAFETY-RAZOR. CARL ELSENER, Ibach-Schwyz, Switzerland. Filed Feb. 5, 1920. Serial No. 356,408. Term of patent 3½ years.



The ornamental design for a safety-razor as shown.

59,545. TEXTILE FABRIC. THOMAS W. EDENS, Jr., Brooklyn, N. Y. Filed Aug. 24, 1921. Serial No. 495,107. Term of patent 3½ years.



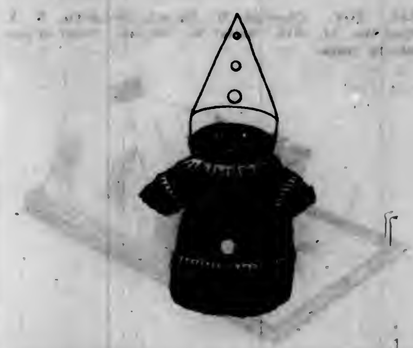
The ornamental design for a textile fabric, as shown.

59,546. STOCKING. MANNY FARKAS, New York, N. Y. Filed June 20, 1921. Serial No. 479,141. Term of patent 14 years.



The ornamental design for a stocking, as shown.

59,547. SPONGE DOLL. CHARLES F. FLEMMING, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed June 29, 1921. Serial No. 481,404. Term of patent 7 years.



The ornamental design for a sponge doll, as shown.

59,548. SPONGE DOLL. CHARLES F. FLEMMING, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed June 29, 1921. Serial No. 481,405. Term of patent 7 years.



The ornamental design for a sponge doll, as shown.

59,549. SPONGE DOLL. CHARLES F. FLEMMING, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed June 29, 1921. Serial No. 481,406. Term of patent 7 years.



The ornamental design for a sponge doll, as shown.

59,550. SPONGE DOLL. CHARLES F. FLEMMING, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed June 29, 1921. Serial No. 481,407. Term of patent 7 years.



The ornamental design for a sponge doll, as shown.

59,551. SPONGE DOLL. CHARLES F. FLEMMING, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed June 29, 1921. Serial No. 481,408. Term of patent 7 years.



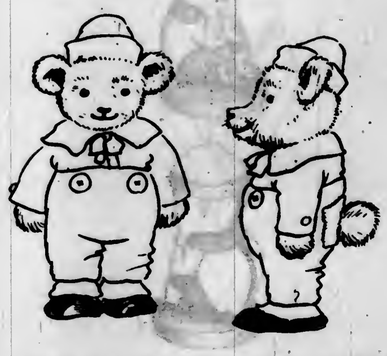
The ornamental design for a sponge doll, as shown.

59,552. STONE-SETTING. ADOLPH FRANK, New York, N. Y. Filed Apr. 9, 1921. Serial No. 460,074. Term of patent 7 years.



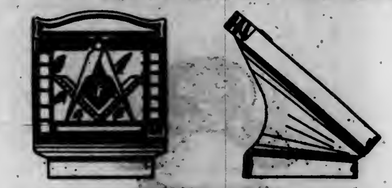
The ornamental design for a stone setting, as shown.

59,553. TOY ANIMAL. JOHN B. GRUELLE, Norwalk, Conn. Filed Apr. 27, 1921. Serial No. 465,001. Term of patent 14 years.



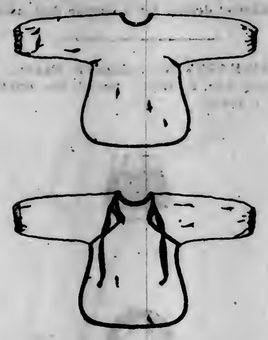
The ornamental design for a toy animal as shown.

59,554. DISPLAY-STAND. DAVID J. JACOBS, Chicago, Ill. Filed Jan. 14, 1921. Serial No. 437,361. Term of patent 3½ years.



The ornamental design for a display stand, as shown.

59,555. CHILD'S GARMENT. AMBER LADD, Sunnyvale, Calif. Filed May 7, 1921. Serial No. 467,583. Term of patent 14 years.



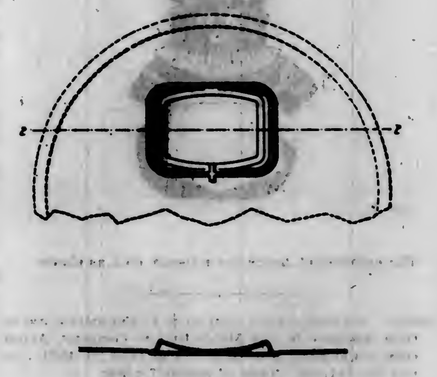
The ornamental design for a child's garment, as shown.

59,556. INCENSE-BURNER. GLADYS I. LAY, Los Angeles, Calif. Filed June 21, 1921. Serial No. 479,390. Term of patent 3½ years.



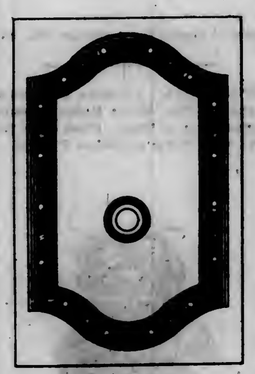
The ornamental design for an incense burner, substantially as shown and described.

59,557. WINDOW OF AN INSTRUMENT-DIAL. THOMAS L. LEE, Rochester, N. Y., assignor to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed May 12, 1921. Serial No. 469,057. Term of patent 14 years.



The ornamental design for a window of an instrument dial, as shown.

59,558. WRITING-PAPER-TABLET COVER. LOUIS R. LINSCOTT, Woburn, Mass., assignor to White & Wyckoff Manufacturing Company, Holyoke, Mass., a Corporation of Massachusetts. Filed June 24, 1921. Serial No. 480,242. Term of patent 14 years.



The ornamental design for a writing-paper tablet cover, as shown.

59,559. STATUETTE. JOHN MACQUARRIE, San Francisco, Calif., assignor to Sophie Serduke, San Francisco, Calif. Filed Apr. 24, 1920. Serial No. 376,417. Term of patent 3½ years.



The ornamental design for a statuette as shown.

59,560. BADGE OR EMBLEM. ROBERT S. MARX, Cincinnati, Ohio. Filed May 2, 1921. Serial No. 466,241. Term of patent 14 years.



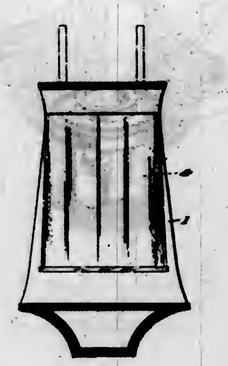
The ornamental design for a badge or emblem, as shown.

59,561. HOUSE-DRESS. HELEN MELLEN, Los Angeles, Calif. Filed Apr. 18, 1921. Serial No. 462,445. Term of patent 7 years.



The ornamental design for a house dress, as shown.

59,562. LADY'S GARMENT. SAMUEL Y. MERCHANT, Boston, Mass. Filed Dec. 11, 1920. Serial No. 430,068. Term of patent 14 years.



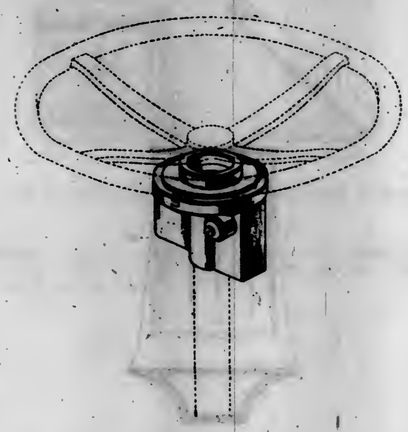
The ornamental design for a lady's garment, as shown.

59,563. NECKTIE OR SIMILAR ARTICLE. ALEX MORAN, Omaha, Nebr. Filed Mar. 31, 1921. Serial No. 457,528. Term of patent 3½ years.



The ornamental design for a necktie or similar article, as shown.

59,564. STEERING-POST LOCK. JOHN A. OLSON, Paterson, N. J. Filed Oct. 14, 1919. Serial No. 330,613. Term of patent 3½ years.



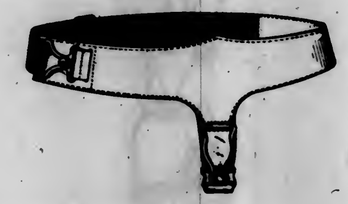
The ornamental design for a steering post lock, as shown.

59,565. INCENSE-LOZENGE. ARDEN C. PAGE, Cincinnati, Ohio, assignor to The Lucky Star Manufacturing Company, Cincinnati, Ohio, a Firm consisting of Arden C. Page and Mitchell J. Miller. Filed Mar. 29, 1921. Serial No. 456,638. Term of patent 14 years.



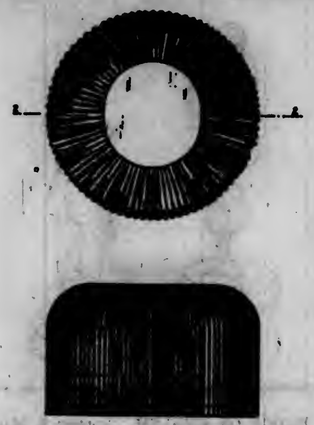
The ornamental design for an incense lozenge, as shown.

59,566. MAN'S GARTER. JACOB PASES, New York, N. Y. Filed July 8, 1920. Serial No. 393,976. Term of patent 14 years.



The ornamental design for a man's garter, as shown.

59,567. HAT-LINING. MORRIS PRINCE, New York, N. Y. Filed Feb. 21, 1921. Serial No. 446,957. Term of patent 3½ years.



The ornamental design for a hat lining as shown and described.

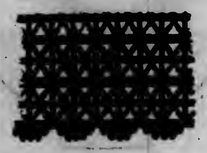
59,568. SETTING FOR A FINGER-RING. ISRAEL ROSKIN, Brooklyn, N. Y. Filed Nov. 18, 1920. Serial No. 425,008. Term of patent 7 years.





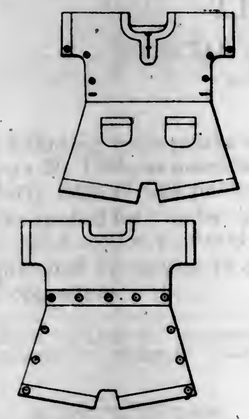
The ornamental design for a setting for a finger ring as shown.

59,569. LACE. GEORGE FRANK TOWNSEND, Germantown, Pa., assignor to John G. Chapman, New York, N. Y. Filed June 9, 1921. Serial No. 476,350. Term of patent 3½ years.



The ornamental design for lace as shown.

59,570. CHILD'S GARMENT OR ROMPER. SIEGFRIED J. VARNHAGEN, San Francisco, Calif. Filed May 31, 1921. Serial No. 473,907. Term of patent 7 years.



The ornamental design for a child's garment or romper, as shown.

59,571. CLOAK. CLARE WEST, Los Angeles, Calif., assignor to Cecil B. DE MILLE, Los Angeles, Calif. Filed Jan. 31, 1921. Serial No. 441,434. Term of patent 7 years.

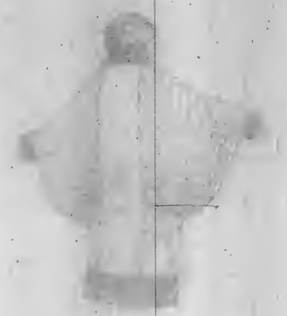


59,571.





The ornamental design for a cloak, as shown.









TRADE-MARKS

OFFICIAL GAZETTE, NOVEMBER 1, 1921.

[PUBLISHED NOVEMBER 7, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 107,186. (CLASS 39. CLOTHING.) VASSAR SWISS UNDERWEAR CO., Chicago, Ill. Filed Nov. 5, 1917.



Particular description of goods.—Knitted and Woven Union-Suits, Vests, and Drawers.
Claims use since on or about Apr. 1, 1900.

Ser. No. 110,970. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) COMOY VERGUET, St. Claude, France. Filed May 17, 1918.



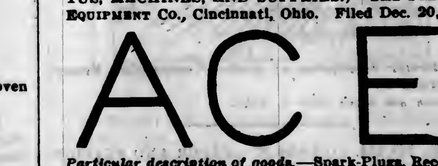
Particular description of goods.—Cigar and Cigarette Holders Not of Precious Metals or Plated with Precious Metal.
Claims use since Sept. 27, 1913.

Ser. No. 112,318. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) SUZUKI & Co., Higashi-Kawasakicho, Hyogo, Kobe, Japan. Filed Sept. 23, 1918.



Particular description of goods.—Matches.
Claims use since Oct. 29, 1915.

Ser. No. 114,748. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE PRECISION EQUIPMENT CO., Cincinnati, Ohio. Filed Dec. 20, 1918.



Particular description of goods.—Spark-Plugs, Receiving-Tuners, Audion-Control Cabinets, and Inductance-Coils.
Claims use since June 1, 1918.

Ser. No. 123,556. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) MATHIAS PITZL, New Munich, Minn. Filed Oct. 8, 1919.



Particular description of goods.—Non-Intoxicating, Maltless Beverage Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume, and Sold as a Soft Drink.
Claims use since Aug. 1, 1919.

Ser. No. 123,578. (CLASS 28. BROOMS, BRUSHES, AND DUSTERS.) THOS. HUBBUCK & SON, LIMITED, London, England. Filed Oct. 9, 1919. Under ten-year proviso.

HUBBUCK.

Particular description of goods.—Brooms and Mops.
Claims use since 1775.

Ser. No. 125,406. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE SUNSHINE CLEANSING PRODUCTS COMPANY, Denver, Colo. Filed Nov. 26, 1919.

SUNSHINE

Particular description of goods.—A Cleaning Compound, a Cleaning and Scouring Composition to be Used for Metal Surfaces, Kitchen Utensils, Marble, Painted Surfaces, and the Like.
Claims use since Nov. 20, 1919.

Ser. No. 126,482. (CLASS 37. PAPER AND STATIONERY.) THE F. D. MAYER MANUFACTURING CO., Chicago, Ill. Filed Dec. 26, 1919.



Particular description of goods.—Composition Erasers for Artists' Use.
Claims use since July 1, 1916.

Ser. No. 128,158. (CLASS 37. PAPER AND STATIONERY.) NATIONAL PAPER PRODUCTS COMPANY, San Francisco, Calif. Filed Feb. 9, 1920.



No claim being made to the word, "National" apart from the mark shown in the drawing.
Particular description of goods.—Toilet-Paper, Paper Towels, Paper-Roll Towels, and Serpentine, a Narrow Ribbon of Paper.
Claims use since June 1, 1916, on toilet-paper; since Feb. 1, 1917, on paper towels; since Aug. 1, 1918, on paper-roll towels, and since Nov. 1, 1919, on serpentine.

Ser. No. 128,965. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) SAMUEL GEORGE TRIPP, Berne, Switzerland. Filed Feb. 25, 1920.

Tabbox

Particular description of goods.—Tobacco-Boxes Made of Steel, Brass, and Nickel-Plated Alpaca.
Claims use since May 1, 1919.

Ser. No. 129,930. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MACKIE PINE OIL SPECIALTY CO., INC., Covington, La. Filed Mar. 19, 1920.



Particular description of goods.—Pine-Oil Used for Cuts, Burns, Bruises, Stings, Chaps, Sunburn, Prickly Heat, Skin Eruptions, Sore Feet, Sore Muscles, Ordinary Sore Throat, Bronchitis, Tonsilitis, Whooping-Cough, Asthma, and Head-Colds.
Claims use since Dec. 15, 1919.

Ser. No. 130,036. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARTHUR C. HANSON, Chicago, Ill. Filed Mar. 22, 1920.

Thymozene

Particular description of goods.—Antiseptic Powder for Cuts, Sores, Wounds, and Vaginal Douches.
Claims use since Jan. 1, 1919.

Ser. No. 130,328. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HEGEWISCH CHEMICAL WORKS, Chicago, Ill. Filed Mar. 29, 1920.

DONATOL

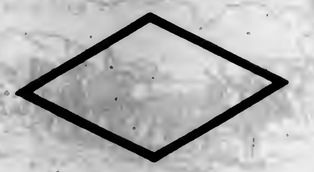
Particular description of goods.—A Medicinal Fattening Compound for Animals.
Claims use since Mar. 1, 1920.

Ser. No. 130,581. (CLASS 37. PAPER AND STATIONERY.) HARRY C. COWDREY, New York, N. Y. Filed Apr. 3, 1920.

Nu

Particular description of goods.—Wrapping-Paper, Correspondence and Bond Paper Adapted for General Writing and Printing Purposes, Captioned and Uncaptioned Commercial and Private Correspondence Paper, and Captioned and Uncaptioned Mailing or Correspondence Envelops.
Claims use since Sept. 1, 1919.

Ser. No. 130,806. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DIAMOND ALKALI COMPANY, Pittsburgh, Pa. Filed Apr. 8, 1920.



Particular description of goods.—Soda-Ash and Caustic Soda and Modified Forms of Each of Varying Alkali Content.
Claims use since February, 1912.

Ser. No. 131,940. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) BOARMAN & SON, Chester, Del. Filed May 3, 1920.



Particular description of goods.—Ginger-Ale, Apple-Juice, Grape-Juice, Root-Beer, Birch-Beer, and Sarsaparilla.
Claims use since Mar. 31, 1920.

Ser. No. 132,141. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FOWLER PACKING COMPANY, Kansas City, Kans. Filed May 7, 1920.



No claim is made to the word "Brand" apart from the mark as shown in the drawing.
Particular description of goods.—Lard and Dry Salt and Sweet Pickled Pork.
Claims use since 1880.

Ser. No. 133,031. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) USIT MANUFACTURING COMPANY OF AMERICA, INC., New York, N. Y. Filed May 27, 1920.



Particular description of goods.—Face-Powder and Wrinkle-Cream.
Claims use since about June 5, 1919.

Ser. No. 133,949. (CLASS 37. PAPER AND STATIONERY.) ART CRAFT SHOPS COMPANY, St. Louis, Mo Filed June 21, 1920.



Particular description of goods.—Engraved and Embossed Business Letter-Heads and Mailing-Envelops, Engraved and Embossed Society Letter-Heads and Mailing-Envelops, and Engraved and Embossed Correspondence-Cards.
Claims use since June, 1918.

Ser. No. 133,909. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HAIR NET IMPORTING CO. INC., New York, N. Y. Filed June 21, 1920.

MY-T-FINE

Particular description of goods.—Hair-Net.
Claims use since October, 1918.

Ser. No. 135,930. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) IROQUOIS BEVERAGE CORPORATION, Buffalo, N. Y. Filed Aug. 9, 1920.



Particular description of goods.—Non-Alcoholic, Malt-less Beverages Containing Not More Than One-Half of One Per Cent. Alcohol, by Volume, and Sold as Soft Drinks.
Claims use since Feb. 8, 1908.

Ser. No. 136,209. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed Aug. 17, 1920.



Particular description of goods.—Dry, Paste, and Ready-Mixed Paints; Turpentine, Varnishes, and Polishing-Oil.
Claims use since June 15, 1920.

Ser. No. 136,260. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HADFIELDS LIMITED, Sheffield, England. Filed Aug. 19, 1920.

GALAHAD

Particular description of goods.—Golf-Clubs, Bar-Bells, Dumb-Bells, Fencing-Foils, Fishing-Reels, Croquet-Hooks, Roller-Skates, Small Imitation Animals and Figures Made of Metal; Small Metal Mechanical Contrivances, Such as Small Toy Engines and Motor-Cars.
Claims use since Feb. 22, 1918.

Ser. No. 136,495. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WHEELER VARNISH WORKS, Chicago, Ill. Filed Aug. 25, 1920.

NUCAR TO

Particular description of goods.—Automobile-Paint.
Claims use since Jan. 1, 1918.

Ser. No. 136,642. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PIONEER BIOCHEMIC PRODUCTS CO., Pleasant Hill, Mo. Filed Aug. 30, 1920.



Particular description of goods.—Laxative Salts.
Claims use since July 20, 1920.

Ser. No. 137,469. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Sept. 22, 1920.

GOODRICH

Under section 9 of the act of March 19, 1920.
Particular description of goods.—Handballs, Baseball Body-Protectors, Gun-Recoil Pads for Hand-Arms—Namely, Rifles and Shotguns—for Hockey-Pucks Made Wholly or Partly of Rubber or Having Rubber Incorporated Therein.
Claims use on gun-recoil pads since about spring of 1895; on handballs and hockey-pucks since about 1900, and on body-protectors since about 1903.

Ser. No. 137,470. (CLASS 11. INKS AND INKING MATERIALS.) ALBERT PETER KELLER, New Orleans, La. Filed Sept. 22, 1920.

WRITE-WELL

No claim is made to the words "Write-Well" shown in the accompanying drawing.
Particular description of goods.—Writing-Inks.
Claims use since July 20, 1920.

Ser. No. 137,568. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOSEPH DEBE, Philadelphia, Pa. Filed Sept. 24, 1920.

Debra

Particular description of goods.—Light-Weight Summer Portières, Silk Drapery-Cloths, and Curtains Adapted Either for Doors or as a Drapery at Windows.
Claims use since about Sept. 9, 1916.

Ser. No. 137,661. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE C. F. HICKOK CO., Sidney, Ohio. Filed Sept. 27, 1920.

MAPLE CHEWS

Particular description of goods.—Candy.
Claims use since 1903.

Ser. No. 138,162. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) JOHN MAURICE ECKENRODE, Pasadena, Calif. Filed Oct. 11, 1920.



No claim being made to the words "Heck's Root Beer" and "It's Like Cream" apart from the mark as shown.
Particular description of goods.—Root-Beer.
Claims use since July 10, 1920.

Ser. No. 138,321. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) ANNIE LICHTENSTEIN, New York, N. Y. Filed Oct. 15, 1920. Under ten-year proviso.

THE GEM

Particular description of goods.—Hair-Combs Not Made of Precious Metal.
Claims use since Aug. 1, 1880.

Ser. No. 138,344. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) SAMSTAG & HILDEB BROS., New York, N. Y. Filed Oct. 15, 1920.

SNOWHITE TOOTH BRUSHES

No claim being made to the exclusive use of the words "Tooth Brushes" apart from the mark shown in the drawing.
Particular description of goods.—Toothbrushes.
Claims use since Sept. 24, 1920.

Ser. No. 138,457. (CLASS 32. FURNITURE AND UPHOLSTERY.) SOUTHERN CABINET & FURNITURE CO. INC., New Orleans, La. Filed Oct. 18, 1920.



Particular description of goods.—Piano-Benches, Music-Roll Cabinets, Chifforobes, Dresserobes, Cedar Chests for Garments, Hangerobes, Iron Canopy Beds, Iron Non-Canopy Beds, Iron Non-Canopy Cribs, Iron Canopy Cribs, Iron Couches, Iron Canopies, Iron Cots, Iron Institution-Beds, Iron Bed-Springs, Iron Cot-Springs, Wooden Cots, Mattresses, Pillows, Wooden Beds, Wooden Bureaus, Wooden Vanity-Dressers, Wooden Semivanity Dressers, Wooden Chifforettes, Wooden Dressers, Wooden Vanity Dresser-Benches, Wooden Towel-Cabinets, Bed-Room Tables, Bed-Room Chairs.
Claims use since Apr. 1, 1920.

Ser. No. 139,139. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) WILMORT MANUFACTURING COMPANY, Chicago, Ill. Filed Nov. 3, 1920.

Wilmort
Humidette

Particular description of goods.—Humidors of Small Sizes.
Claims use since Oct. 27, 1920.

Ser. No. 139,249. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) CLINTON MALT PRODUCT CO., Clinton, Iowa. Filed Nov. 6, 1920.



Particular description of goods.—Malt-Syrup Used for and in the Manufacture of Beverages.
Claims use since Aug. 2, 1920.

Ser. No. 139,727. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MADAME C. J. WALKER, INC., Chicago, Ill. Filed Nov. 16, 1920.



The portrait forming part of the mark being that of Cora E. Walker, president of the corporation.
Particular description of goods.—Toilet Preparations Entitled as Follows: Hair-Shampoo, Hair-Grower, Temple-Grower, and Salve for Diseased Scalps.
Claims use since Sept. 10, 1920.

Ser. No. 139,872. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) SPHAGNUM PRODUCTS COMPANY, Portland, Oreg. Filed Nov. 19, 1920.

FAG-O-SAN

Consisting of "Fag-O-San."
Particular description of goods.—A Surgical or Sanitary Bandage with a Filling of Sphagnum Moss.
Claims use since Sept. 1, 1920.

Ser. No. 139,904. (CLASS 15. OILS AND GREASES.) NOCO PETROLEUM COMPANY, New York, N. Y. Filed Nov. 20, 1920.



Particular description of goods.—Benzin.
Claims use since November, 1919.

Ser. No. 140,794. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) GEO. R. GIBSON CO., New York, N. Y. Filed Dec. 8, 1920.

BBB

Particular description of goods.—Toilet-Brushes—Namely, Hair and Tooth Brushes.
Claims use since Nov. 11, 1920.

Ser. No. 140,871. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN DUNN, SON & CO., New York, N. Y. Filed Dec. 10, 1920.

GUANACO

Consists of the word "Guanaco."
Particular description of goods.—Hammers, Pliers, Table Knives and Forks of Base Metal, Sharpening-Steels, Spoons of Base Metal, Pocket-Knives, Cleavers, Razors, Shears, Scissors, Tobacco-Knives, Adzes, Axes, Cane-Knives, Chisels, Planes, Draw-Knives, Hatchets, Hay-Knives, Saws, Shovels and Spades, Wire-Cutters, Windmills, Hay-Presses, Corn-Shellers, Grain Drills and Seeders, Bits, Steel Files, Hay-Forks, Manure-Forks, Coke-Forks, Hammers, Potato-Hooks, Pliers, Rakes, Screwdrivers, Stocks and Dies, and Wrenches.
Claims use since January, 1879.

Ser. No. 140,973. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) ALBERT WIELICH, New York, N. Y. Filed Dec. 11, 1920.

PREMIER
MALT EXTRACT

No claim being made to the words "Malt Extract" apart from the mark shown in the drawing.
Particular description of goods.—Malt Extracts.
Claims use since Nov. 15, 1920.

Ser. No. 141,132. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) SIMON, VUILLARD & STRAUSS, London, England. Filed Dec. 15, 1920.

CAPTAIN COMFY

Consisting of the words "Captain Comfy."
Particular description of goods.—Briar Pipes.
Claims use since Jan. 2, 1909.

Ser. No. 141,194. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) TOLLEMACHE'S IPSWICH BREWERY LIMITED, Ipswich, England. Filed Dec. 16, 1920.



Particular description of goods.—Fermented Liquors and Spirits.
Claims use since Dec. 30, 1919.

Ser. No. 141,817. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOWENWERKE A. G., Heilbronn, Wurttemberg, Germany. Filed Dec. 20, 1920.

Athanal

Particular description of goods.—A Preparation for Venereal Diseases.
Claims use since 1920.

Ser. No. 141,950. (CLASS 29. BROOMS, BRUSHES AND DUSTERS.) THE FULLER BRUSH COMPANY, Hartford, Conn. Filed Jan. 7, 1921.

Fuller

Particular description of goods.—Cotton Wet and Dry Floor-Mops, Cotton Dish-Mops, Cotton Dusters, Cotton Stove-Dusters, Cotton Daubers; Fiber, Bowl, Scouring, Sink, Clothes, and Washing Brushes; Bristle and Hair, Window, Ice-Chest, Radiator, Bowl, Hearth, Utility, Milk-Bottle, Test-Tube, Percolator, Stove, Shoe, Hair, Clothes, Wall, Shampoo, Flesh and Massage, Dental-Plate, Tooth, and Toothbrush Refilling Brushes; Pastry and Manicure Brushes, Shower-Bath Brushes, Hat-Brushes, Crumb-Brushes, Phonograph-Brushes, Furniture-Brush, Hand-Brush, Automobile-Brush, Floor-Brush of the Push-Broom Type, and Fiber Broom.
Claims use since June 18, 1913.

Ser. No. 141,994. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) SIMEON L. & GEORGE H. ROOSES COMPANY, Hartford, Conn. Filed Jan. 8, 1921.

S. L. & G. H. R. CO.

Particular description of goods.—Silver-Plated Flat and Hollow Ware.
Claims use since 1901.

Ser. No. 142,140. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) J. G. FRANKLIN AND SONS LIMITED, Dalston, London, England. Filed Jan. 12, 1921.

RUBBADUBDUB

Particular description of goods.—Toys Made of India-Rubber—Namely, Representations of Animals, Human Beings, and other Objects.
Claims use since June 9, 1920.

Ser. No. 142,521. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MORRIS NEDLIN, Chicago, Ill. Filed Jan. 20, 1921.



No claim is made to the word "Bluing" apart from the mark as shown on the drawing.
Particular description of goods.—Bluing.
Claims use since Jan. 1, 1920.

Ser. No. 142,816. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) STANDARD BOTTLING AND EXTRACT CO., Boston, Mass. Filed Jan. 26, 1921.

White House



Particular description of goods.—Syrup for Making Non-Alcoholic, Maltless Beverages.
Claims use since May 13, 1901.

Ser. No. 143,034. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. A. BAKER, INC., Sumner, Wash. Filed Feb. 1, 1921.

TAK-HOM-A

Particular description of goods.—Canned Fruits, Canned Berries, and Canned Vegetables.
Claims use since June 1, 1920.

Ser. No. 143,401. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES B. FARRISH, Denver, Colo. Filed Feb. 10, 1921.



No claim being made to the words "Aceite," "Marca," "Espanol," and "Caliente" except as shown.
Particular description of goods.—A Liniment Used Externally for Sprains, Earache, Frost-Bites, Headache, Backache, Neuralgia, Rheumatism, Skin Diseases, and Internally for Colic, Diarrhea, Dysentery, Cholera Morbus, Dyspepsia, Colds, &c.
Claims use since Jan. 15, 1921.

Ser. No. 143,435. (CLASS 32. FURNITURE AND UPHOLSTERY.) GEM CRIB & CRADLE COMPANY, Gardner, Mass. Filed Feb. 11, 1921.



No claim is made to the words "Gardner, Mass., U. S. A., Wheel Bassinet Originators, Manufacturers, Distributers" apart from the mark shown in the drawing.
Particular description of goods.—Wheel-Bassinets, Cribs, Cradles, Nursery Furniture—Namely, Baby-Yards, Play-Yards, Child-Coops, Baby-Walkers, Porch-Gates, High Chairs, Rocking-Chairs, Footstools, Work-Stands, Tables, Wardrobes, Park-Strollers, Doll-Carts, and Nursery-Chairs.
Claims use since Sept. 23, 1920.

Ser. No. 143,476. (CLASS 32. FURNITURE AND UPHOLSTERY.) BERNSTEIN BROS., New York, N. Y. Filed Feb. 12, 1921.



The word "Furniture" appearing on the drawing is disclaimed apart from the mark shown on the drawing. The color is not an essential feature of applicant's mark, and the lines on the drawing are merely shading.
Particular description of goods.—Furniture and Upholstery, Upholstered and Unupholstered—to-wit, Beds, Desks, Bookcases, Buffets, Dressers, Dressing-Tables, Vanity-Dressers, Tea-Wagons, Hat-Racks, Davenports, Sofas, Settees, China and Crystal Closets, Curio-Cabinets, Chifferoles, and Music-Cabinets; Dining-Room, Living-Room, Bed-Room, and Porch Chairs, and Dining-Room, Living-Room, Bed-Room, and Porch Tables.
Claims use since Aug. 1, 1920.

Ser. No. 143,720. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) A. G. SPALDING & BROS., New York, N. Y. Filed Feb. 17, 1921.

SERVE-US

Particular description of goods.—Playing-Balls for Athletic Game.
Claims use since about Feb. 1, 1921.

Ser. No. 143,799. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE WISCONSIN IRON STORE, INC., Rice Lake, Wis. Filed Feb. 18, 1921.



No claim being made to the word "Brand." The drawing is lined to indicate that as used the oblong figure is brown and the diagonal band across the same is blue.
Particular description of goods.—Spark-Plugs.
Claims use since Sept. 8, 1919.

Ser. No. 143,858. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) DISTILLERS FINANCE CORPORATION, LIMITED, Belfast, Ireland. Filed Feb. 21, 1921.



No claim is made to the exclusive use of the words "Trade Mark" or "Fine Old Irish Whiskey" aside from the trade-mark shown in the drawing.
Particular description of goods.—Whisky.
Claims use since Aug. 1, 1916.

Ser. No. 143,862. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THE GENERAL MATCH COMPANY, Cincinnati, Ohio. Filed Feb. 21, 1921.



Consisting of the representation of a red bird and the words "Red Bird."
Particular description of goods.—Matches.
Claims use since about Oct. 1, 1920.

Ser. No. 143,871. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MISSOURI EGG & POULTRY COMPANY, Sedalia, Mo. Filed Feb. 21, 1921.



The word "Perfexion" is disclaimed apart from the other features of the mark shown on the drawing.
Particular description of goods.—Dressed Poultry.
Claims use since on or about Jan. 15, 1921.

Ser. No. 144,106. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SUN MANUFACTURING COMPANY, Council Bluffs, Iowa. Filed Feb. 26, 1921.

SUNCO

The lining of the letters forming a part of the mark being for shading purposes only.
Particular description of goods.—Macaroni and Spaghetti.
Claims use since Jan. 31, 1921.

Ser. No. 144,261. (CLASS 11. INKS AND INKING MATERIALS.) SIGMUND ULLMAN COMPANY, New York, N. Y. Filed Mar. 2, 1921.



The drawing being lined to indicate red, no claim being made to the word "Red" apart from the mark shown in the drawing.
Particular description of goods.—Printing-Inks.
Claims use since about July 3, 1919.

Ser. No. 144,368. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WHITTEMORE BROTHERS CORPORATION, Cambridge, Mass. Filed Mar. 5, 1921.

ELITE

Particular description of goods.—A Dressing for Shoes and other Articles Made of Leather.
Claims use since Jan. 19, 1898.

Ser. No. 144,420. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) PITTSBURGH PLATE GLASS COMPANY, RENNOUS-KLEINLE DIVISION, Baltimore, Md. Filed Mar. 7, 1921.

AA CIRCUS

Particular description of goods.—Paint, Varnish, Whitewash, Calcimine, Plasterers', Paper-Hangers', Dusting, Sweeping, Artists', Stencil, Glue, Scrubbing, Washing, and Rubbing Brushes.
Claims use since Aug. 19, 1920.

Ser. No. 145,041. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) CAXTON P. RHODES, San Francisco, Calif. Filed Mar. 21, 1921.

Ejecto

Particular description of goods.—Mouthpiece-Holders for Tobacco Products.
Claims use since Feb. 1, 1921.

Ser. No. 145,135. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SWEET-ODOR-HOME COMPANY, San Francisco, Calif. Filed Mar. 23, 1921.

Sweet-odor-home

Particular description of goods.—Deodorants.
Claims use since Oct. 5, 1916.

Ser. No. 145,226. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MECCA MEDICINAL PRODUCTS COMPANY, Rochester, N. Y. Filed Mar. 25, 1921.

MECCA

Particular description of goods.—The Medicinal Specific "Meccadone," Which is Used as a Poultice for All Conditions of Inflammation, Also for Remedies and Specifics Which are Used in the Treatment of Pyorrhea, Dyspepsia, Rheumatism, Catarrh, Hay-Fever, Female Diseases, and Also for Salves Used for Eczema, Rashes, Cuts, and Burns; Hair-Washes, and Mineralized Waters Used for Indigestion and All Forms of Stomach Troubles Where the Mucous Membrane is Affected; Also Tooth-Powders; Lotions for Sunburn, Infection from Poison-Ivy or Poison-Oak, and for Insect-Bites; Bath-Powders for Mineralization of the Bath-Water, Eye-Washes, Corn-Pastes for the Reduction of Inflammation in Corns, Remedies for Cystitis, Ointments for Protruding Piles, Rectal and Vaginal Suppositories.
Claims use since January, 1921.

Ser. No. 145,251. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MONTGOMERY-WINSTON, Altadena, Calif. Filed Mar. 28, 1921.



No claim being made to the words "Toys" and "Made in America" apart from the mark as shown.
Particular description of goods.—Toys—Stuffed Toys, (Made of Cloth or other Light Material Stuffed with Cotton:) Dolls, (with Hand-Painted or Embroidered Faces,) Rabbits, Monkeys, Elephants, Dogs, and other Animals; Also Bunny-Bags to Carry Toys, and Bean-Bags in Shape of Animals; Wooden Toys, (Hand-Decorated;) Beds, Cradles, Furniture Sets, Wagons, Rabbits, Dogs, Elephants, and other Animals.
Claims use since Oct. 1, 1920.

Ser. No. 145,399. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE D. HAMMERBACHER, Baltimore, Md. Filed Mar. 29, 1921. Under ten-year proviso.

Ortmueller's
ESTB. 1866

Particular description of goods.—Peanut Taffy and Taffy of other and Various Flavors and Chocolate Marshmallows.
Claims use since on or about Apr. 15, 1866.

Ser. No. 145,407. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) DIEBOLD B. NIGG, St. Louis, Mo. Filed Mar. 29, 1921.

Thistle

Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverage Sold as a Soft Drink.
Claims use since Dec. 31, 1920.

Ser. No. 145,460. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SAMUEL SELIGMAN, New York, N. Y. Filed Mar. 30, 1921.



Consisting of a five-pointed star.
Particular description of goods.—Electrical Burglar-Alarm Systems and the Parts Thereof, Such as Alarms, Alarm-Bells, Buzzers, Straight and Latticed Screens, Traps, Switches, Automatic Drops, Relays, and Clocks.
Claims use since 1v12.

Ser. No. 145,857. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE PEABODY SCHOOL FURNITURE CO., North Manchester, Ind. Filed Apr. 7, 1921.



No claim being made to the exclusive use of the words "Folding Chairs, School Desks, The Seal of Quality" apart from the mark shown.
Particular description of goods.—Desks and Folding and School Chairs.
Claims use since Mar. 29, 1921.

Ser. No. 146,181. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE NUT SPECIALTY HOUSE, St. Paul, Minn. Filed Apr. 14, 1921.



No claim being made to the representation of a nut or the word "Brand" or the phrase "Once Tried Always Used" apart from the mark shown in the drawing.
Particular description of goods.—Almonds and other Nuts Salted in the Shell.
Claims use since Jan. 3, 1921.

Ser. No. 146,455. (CLASS 23, CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ARTHUR B. NESS, Minneapolis, Minn. Filed Apr. 20, 1921.

NEEBPURA

Particular description of goods.—Automatic Liquid-Spraying Systems for Purifying the Air of Buildings.
Claims use since Apr. 14, 1921.

Ser. No. 146,462. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLAUDE F. OSBORNE, Hampton, Iowa. Filed Apr. 20, 1921.

Dr. Johnson's
Odorbone

The portrait is that of Dr. C. B. Johnson of Hampton, Iowa.
Particular description of goods.—Medical Compound for the Feet.
Claims use since Jan. 1, 1920.

Ser. No. 146,490. (CLASS 11. INKS AND INKING MATERIALS.) QUEEN MANUFACTURING COMPANY, Chicago, Ill. Filed Apr. 21, 1921.

OLD MONARCH

Particular description of goods.—Typewriter Carbon-Paper and Typewriter-Ribbons.
Claims use since on or about Apr. 1, 1921.

Ser. No. 146,594. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CAMILLO ROCCHIETTA, Pinerolo, Italy. Filed Apr. 22, 1921.

PROTON

Particular description of goods.—A General Tonic.
Claims use since Mar. 11, 1920.

Ser. No. 146,644. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ZANNIE EASON MOORE, Granger, Tex. Filed Apr. 23, 1921.

PULMOFORM

Particular description of goods.—A Medicinal Preparation to be Used as a Remedy for Tuberculosis.
Claims use since Apr. 4, 1921.

Ser. No. 146,902. (CLASS 5. ADHESIVES.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Apr. 28, 1921.



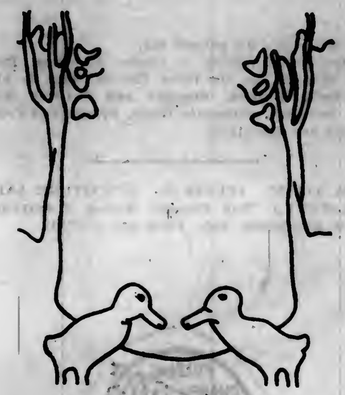
Particular description of goods.—Repair-Gums, Rubber Cement, Made Wholly or Partly of Rubber.
Claims use since Jan. 14, 1921.

Ser. No. 146,972. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE MAGGI CO., Kemptthal, Zurich, Switzerland. Filed Apr. 29, 1921.

Maggi

Particular description of goods.—Seasonings in Solid and Liquid Forms for Improving Soups, Sauces, Gravies, and other Dishes; Soups, Consommé, Bouillon, Sauces, and Gravies in Solid and Liquid Form.
Claims use since Oct. 25, 1895.

Ser. No. 147,030. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM LUKERT, Moriches, N. Y. Filed Apr. 30, 1921.



No claim is made to the representation of the ducks, except as associated with the mark shown.
Particular description of goods.—Live and Dressed Poultry.
Claims use since Mar. 1, 1921.

Ser. No. 147,072. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE WIECHMAN PATTERN COMPANY, Cincinnati, Ohio. Filed Apr. 30, 1921.

WIECHMAN PATTERN CO CIN.O

No claim is made to the words "Cin. O." apart from the mark shown in the drawing.
Particular description of goods.—Shoe-Patterns Consisting of All-Sized Patterns for Laying Off and Them Cutting Out of Leather the Parts for Making Boots, Shoes, and Slippers for Children, Misses, Boys, Women, and Men.
Claims use since Apr. 1, 1914.

Ser. No. 147,110. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) PAUL EOLER, Detroit, Mich. Filed May 2, 1921.

PEE-KAY

Consists of the words "Pee-Kay" printed such that the initial letter of each syllable is of a large type and practically of a height equal to about twice that of the other letters and with a hyphen between the syllables.
Particular description of goods.—Non-Alcoholic, Malt-less Beverages Sold as Soft Drinks in Containers.
Claims use since Nov. 9, 1920.

Ser. No. 147,159. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GENERAL ELECTRIC COMPANY, Schenectady, N. Y. Filed May 3, 1921.

Salamander

Particular description of goods.—Asbestos Insulated Electric Wires.
Claims use since August, 1912.

Ser. No. 147,389. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN MILK PRODUCTS CORPORATION, New York, N. Y. Filed May 9, 1921.

FAVORITA

Particular description of goods.—Unsweetened Evaporated Milk.
Claims use since Apr. 29, 1921.

Ser. No. 147,405. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA GROWERS ASSOCIATION, INC., Los Angeles, Calif. Filed May 9, 1921.

FOREST KING

Particular description of goods.—Canned Fruits and Vegetables.
Claims use since Mar. 1, 1921.

Ser. No. 147,469. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CLEMINSHAW, LEVITCH & CO., New York, N. Y. Filed May 9, 1921.

"HOUSE OF SMILES"



Particular description of goods.—Mohair Dress Fabrics Sold to the Cutting-Up Trade in the Piece to be Made into Skirts, Waists, Alpaca Coats, Petticoats, and on All Their Mohair Luster Wool and Alpaca Linings Sold in the Piece to the Men's and Boy's Clothing Trade to be Used as Linings and on All Their Woolen Dress Fabrics Sold in the Piece to Both the Manufacturers of Women's Garments and to Jobbers Who Sell the Woolen Dress Fabrics to Retail Trade and Cutting-Up Trade.
Claims use since Jan. 1, 1920.

Ser. No. 147,717. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IVO DEIGLMAYR, Munich, Germany. Filed May 14, 1921.

Colactol

Particular description of goods.—Remedy Against Gall-Stones, Liver Complaint, Intestinal Diseases, and Vomiting During Pregnancy.
Claims use since August, 1920.

Ser. No. 147,725. (CLASS 11. INKS AND INKING MATERIALS.) JIFFY PEN COMPANY, Sioux City, Iowa. Filed May 14, 1921.

JIFFY

Particular description of goods.—Writing Inks.
Claims use since Jan. 1, 1917.

Ser. No. 147,863. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) JOHN LOUIS DUNCAN, Manchester, England. Filed May 16, 1921.

Zoie

Particular description of goods.—Tobacco-Pipes and Cigar and Cigarette Tubes Not of Precious Metal or of Imitation Precious Metal.
Claims use since January, 1912.

Ser. No. 147,937. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MANUFACTURING COMPANY OF AMERICA, Philadelphia, Pa. Filed May 19, 1921.

Atlantic

Particular description of goods.—Candy.
Claims use since about Aug. 8, 1906.

Ser. No. 147,999. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) CHAS. P. SCHAEFFER, Reading, Pa. Filed May 20, 1921.

SCHAEFFER

Chas P Schaeffer

The name "Chas. P. Schaeffer" is a facsimile of the signature of the applicant.
Particular description of goods.—Braids, Shoe-Laces, and Corset-Laces.
Claims use since 1906.

Ser. No. 148,048. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ALLEN-BRADLEY COMPANY, Milwaukee, Wis. Filed May 23, 1921.

Bradleystat

Particular description of goods.—Electrical Controlling Devices of the Carbon-Pile Rheostat Type.
Claims use since August, 1920.

Ser. No. 148,051. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) BART O. M. BOMBRAKE, Chicago, Ill. Filed May 23, 1921.

GIMME

Particular description of goods.—A Game of Chance Played with Polygonal Indicia Bearing Numbers.
Claims use since Mar. 5, 1921.

Ser. No. 148,153. (CLASS 37. PAPER AND STATIONERY.) FRANK LEVY, New York, N. Y. Filed May 24, 1921.

FRANKLEE

Consisting of the word "Franklee."
Particular description of goods.—Paper—viz., Flat and Print Paper, Typewriting-Paper, Mailing and Correspondence Envelops, Blotters, Cardboard, Wrapping-Paper, Bristol-Board, Tissue-Paper, Wax-Paper, Toilet-Paper, Index Bristol-Board, Shelf-Paper; Composition Book, Pad, and Tablet Paper; Ledger, Journal, and Blank-Book Paper; Parchment, and Drawing-Paper.
Claims use since February, 1921.

Ser. No. 148,443. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. A. METZ LABORATORIES, INC., New York, N. Y. Filed May 31, 1921.

· ORTHO · TROCHES

No claim is made to the right of exclusive use of the word "Troches" apart from the word "Ortho."
Particular description of goods.—Anesthetics and Preparations for Alleviating Irritation and Pain.
Claims use since about Mar. 28, 1921.

Ser. No. 148,449. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. A. METZ LABORATORIES, INC., New York, N. Y. Filed May 31, 1921.

· PARA · TROCHES

No claim is made to the right of exclusive use of the word "Troches" apart from the word "Para."
Particular description of goods.—Anesthetics and Preparations for Alleviating Irritation and Pain.
Claims use since about Mar. 28, 1921.

Ser. No. 148,471. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLARA WIGGINS, Tampa, Fla. Filed May 31, 1921.

PALM-ARRAGON HAIR GROWER

No claim being made to the words "Hair Grower" as shown upon the drawing.
Particular description of goods.—Hair-Grower.
Claims use since January, 1919.

Ser. No. 148,611. (CLASS 32. FURNITURE AND UPHOLSTERY.) FLOYD H. NEWMAKER, Warren, Pa. Filed June 3, 1921.

Phoenix

Particular description of goods.—Dressers, Chifferettes, Dressing-Tables, Beds, Vanity-Dressers, Night-Tables, Bed-Room Benches, and Chairs.
Claims use since May 28, 1921.

Ser. No. 148,657. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ILLINOIS RAZOR STROP COMPANY, Chicago, Ill. Filed June 4, 1921.



No claim being made to the exclusive use of the words "Indian Pony Shell" apart from the mark shown in the drawing.
Particular description of goods.—Razor-Strops.
Claims use since Mar. 8, 1919.

Ser. No. 148,658. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ILLINOIS RAZOR STROP COMPANY, Chicago, Ill. Filed June 4, 1921.



No claim is made to the exclusive use of the words "Alaskan Seal" or the representation of a seal apart from the mark shown in the drawing.
Particular description of goods.—Razor-Strops.
Claims use since Feb. 20, 1919.

Ser. No. 148,702. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHRIST BARUXES, Newark, Ohio. Filed June 6, 1921.

Naturally

Particular description of goods.—Hard and Soft Candies, Bonbons, Chocolates, and Marshmallows.
Claims use since Sept. 10, 1920.

Ser. No. 148,617. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) SAMUEL SCHUSTERMAN, New York, N. Y., assignor to The Rippel Corporation, a Corporation of New York. Filed June 7, 1921.



Apart from the mark as shown the exclusive right to the following words is hereby disclaimed: "The Healthful Beverage," "Trade Mark," "A Syrup for Fountain Use and Bottles," and "New York."
Particular description of goods.—A Non-Alcoholic, Non-Cereal, Maltless Beverage Sold as a Soft Drink and Syrup for Making the Same.
Claims use since Apr. 19, 1921.

Ser. No. 148,676. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ELECTRIC MANUFACTURING COMPANY, San Francisco, Calif. Filed June 9, 1921.

SOLAR

Particular description of goods.—Electric Air-Blowers, Electric Hair-Driers, Electric Curling-Iron Heaters, Electrical Drink-Mixers, and Electric Drink-Mixer Agitators.
Claims use since Oct. 20, 1917.

Ser. No. 148,906. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EMIL WOLFRAM, Columbus, Ohio. Filed June 9, 1921.

Wolfram's

The name "Wolfram's" being a facsimile signature of Theodore Wolfram, the founder of the business.
Particular description of goods.—Throat-Chips in the Nature of Medicated Lozenges, Constipation-Capsules, and Medicinal Preparation for Treatment of Catarrh, Hay-Fever, and Colds in the Head.
Claims use since October, 1920.

Ser. No. 148,929. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN CETRULO, Arlington, N. J. Filed June 10, 1921.

CHG
CETRULO'S HAIR GROWER

No claim is made to the words "Hair Grower" apart from the mark as shown.
Particular description of goods.—Hair-Grower.
Claims use since Apr. 1, 1921.

Ser. No. 149,121. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BAILEY CO., Cleveland, Ohio. Filed June 14, 1921.

MARGIE

Particular description of goods.—Toilet Water, Skin-Lotions, Face-Creams, Vanishing Cream, Brilliantine, Hair-Dressing, Talcum, Vanity-Rouge, Vanity-Powder, Face-Powder, Cucumber Cream, Benzoin and Almond Lotion, Lilac Vegetal, Bandolin, Lemon Cream, Cold-Cream, Massage-Cream, Cocoa-Butter Cream, Quinin Tonic, Bath-Salts.
Claims use since May 1, 1921.

Ser. No. 149,126. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE R. M. HOLLINGSHEAD CO., Camden, N. J. Filed June 14, 1921.

Whiz

Particular description of goods.—Antifreeze Compound, Carbon-Remover, Tar-Remover, Radiator-Leak Stop, Spoke-Tightening Oil, Radiator-Cleaning Compound, Auto-Top Dye, Fly-Spray, and Insect-Destroyer, said Carbon-Remover, Tar-Remover, Radiator-Leak Stop, and Radiator-Cleaning Compound Being in the Nature of Chemical Compositions.
Claims use since Apr. 1, 1920.

Ser. No. 149,333. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE LOWELL COMPANY, Lowell, Mass., and New York, N. Y. Filed June 18, 1921.

Primrose House

Particular description of goods.—Face-Creams, Cleaning-Creams, Vanishing Creams, Face-Lotions, Face-Astringents, Rouges, Face-Powders, Talcum Powders, Lip-Sticks, Hair-Tonics, Hair-Lotions, Hair-Shampoos, Hair-Depilatories, Preparations for Stiffening Eyelashes, Eyebrow-Pencils, Eye-Lotions, Perfumes, Toilet Waters, Nail-Polishes, Nail-Creams, and Chemicals Suitable for Cuticle-Removers.
Claims use since May 2, 1921.

Ser. No. 149,334. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE LOWELL COMPANY, Lowell, Mass., and New York, N. Y. Filed June 18, 1921.

Here Dwells Youth

Particular description of goods.—Face-Creams, Cleaning-Creams, Vanishing Creams, Face-Lotions, Face-Astringents, Rouges, Face-Powders, Talcum Powders, Lip-Sticks, Hair-Tonics, Hair-Lotions, Hair-Shampoos, Hair-Depilatories, Preparations for Stiffening Eyelashes, Eyebrow-Pencils, Eye-Lotions, Perfumes, Toilet Waters, Nail-Polishes, Nail-Creams, and Chemicals Suitable for Cuticle-Removers.
Claims use since May 2, 1921.

Ser. No. 149,335. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE LOWELL COMPANY, Lowell, Mass., and New York, N. Y. Filed June 18, 1921.



Particular description of goods.—Face-Creams, Cleansing-Creams, Vanishing Creams, Face-Lotions, Face-Astringents, Rouges, Face-Powders, Talcum Powders, Lip-Sticks, Hair-Tonics, Hair-Lotions, Hair-Shampoos, Hair-Depilatories, Preparations for Stiffening Eyelashes, Eyebrow-Pencils, Eye-Lotions, Perfumes, Toilet Waters, Nail-Polishes, Nail-Creams, and Chemicals Suitable for Cuticle-Removers.
Claims use since May 2, 1921.

Ser. No. 149,353. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PITTSBURGH ELECTRIC FURNACE CORPORATION, Pittsburgh, Pa. Filed June 18, 1921.

'LECTROMELT

Particular description of goods.—Electrometallurgical Furnaces.
Claims use since May 1, 1920.

Ser. No. 149,377. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JEANETTE G. BROWN, Chicago, Ill. Filed June 20, 1921.

NU-CHARM
B

Particular description of goods.—Liquid Face-Powder.
Claims use since June 2, 1921.

Ser. No. 149,393. (CLASS 32. FURNITURE AND UPHOLSTERY.) HAROLD L. DE LISLE, Chicago, Ill. Filed June 20, 1921.

CALUMET

Particular description of goods.—Filing-Cabinets.
Claims use since Feb. 15, 1921.

Ser. No. 149,464. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MCDOUGALL & YALDING, LTD., Yalding, England. Filed June 21, 1921.

DERRISOL

Particular description of goods.—Fungicides, Insecticides, Vermicides, and Similar Compositions for Destroying Life Deleterious to Plants, Trees, Fruits, &c.
Claims use since May 11, 1921.

Ser. No. 149,466. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MCDOUGALL & YALDING, LTD., Yalding, England. Filed June 21, 1921.

DERRISINE

Particular description of goods.—Fungicides, Insecticides, Vermicides, and Similar Compositions for Destroying Life Deleterious to Plants, Trees, Fruits, &c.
Claims use since May 11, 1921.

Ser. No. 149,489. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JEAN SENEGAS, New York, N. Y. Filed June 21, 1921.



The feminine head represented in the mark is fanciful.
Particular description of goods.—Nail-Polish.
Claims use since July 14, 1920.

Ser. No. 149,536. (CLASS 32. FURNITURE AND UPHOLSTERY.) EASTMAN A. BURROWS, Chicago, Ill. Filed June 23, 1921.

ISETOP

Particular description of goods.—Display and Dispensing Counter for Stores.
Claims use since Feb. 1, 1921.

Ser. No. 149,572. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ATKINSON DAVE CO., Atkinson, Ill. Filed June 24, 1921.

BLACKSEAL

Particular description of goods.—Compound for Sealing Leaks in Radiators of Gas-Engines.
Claims use since on or about Nov. 1, 1920.

Ser. No. 149,582. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RODOLFO FLORES, Sedalia, Mo. Filed June 24, 1921.

Sana Balm

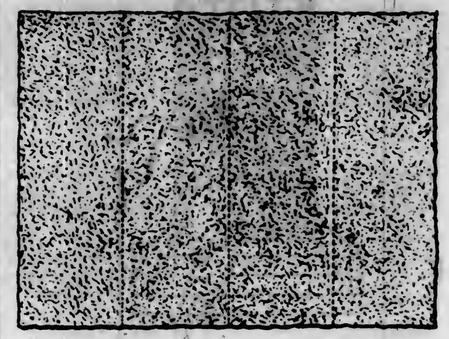
The word "Balm" is disclaimed apart from the mark as shown in the drawing.
Particular description of goods.—Sana-Cutis Jelly, a Thin Ointment Antiseptic Healing Agent for Cuts, Insect-Bites, &c., Affections of the Skin, and General Household Use.
Claims use since Jan. 1, 1920.

Ser. No. 149,615. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WAUCHULA CHEMICAL COMPANY, Wauchula, Fla. Filed June 24, 1921.

NEEDMORE

Particular description of goods.—Hair-Tonics.
Claims use since Apr. 9, 1921.

Ser. No. 149,616. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WOOLMBO MANUFACTURING COMPANY, Bath, Me. Filed June 24, 1921.



Particular description of goods.—Camel's-Hair Cloth in the Piece.
Claims use since June 6, 1921.

Ser. No. 149,627. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CUPID BEAUTY COMPANY, New York, N. Y. Filed June 25, 1921.



Particular description of goods.—Bleach-Creams, Beauty-Creams, Cold-Creams, Cleansing-Creams, Face-Powders, Compact Face-Powders, Liquid Face-Powders, Compact-Rouges, Liquid Rouges, Talcum Powders, Eyebrow and Eyelash Growers, Eyebrow-Pencils, Eye-Drops, Face-Bleaches, Hair-Salves, Shampoos, Skin-Lotions, Hand-Lotions, Lip-Sticks, Bath-Salts, Witch-Hazel Salves, a Chemical Preparation Suitable for Cuticle-Removers, Nail-Polishes, Nail-Bleaches, Toilet Waters, and Perfumes.
Claims use since May 28, 1921.

Ser. No. 149,664. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COMBS, FETTERLY & CO., INC., Union Hill, N. J., and New York, N. Y. Filed June 27, 1921.



Particular description of goods.—Pharmaceutical Preparations Composed of Animal-Gland Substances for Ovarian and Testicular Insufficiencies and Liver Diseases.
Claims use since May 9, 1921.

Ser. No. 149,744. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PAUL FRANCE, New York, N. Y. Filed June 28, 1921.

VitaZest

Particular description of goods.—A Food Tonic Composed of Dried Yeast and Vitamins.
Claims use since June 13, 1921.

Ser. No. 149,780. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SPA BATHS CO., INC., Saratoga Springs, N. Y. Filed June 28, 1921.



No claim being made to the word "Saratoga" apart from the mark shown in the drawing.
Particular description of goods.—Mineral and Medical Salt.
Claims use since June 1, 1921.

Ser. No. 149,790. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE YELLOW-FLUID CHEMICAL CO., Charleston, S. C. Filed June 28, 1921.

YELLOW-FLUID

No claim being made to the word "Yellow-Fluid" apart from the other features of the mark.
Particular description of goods.—An Insect-Exterminator, Disinfectant, and Deodorizer.
Claims use since about August, 1919.

Ser. No. 149,795. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANTONI BARON, East Chicago, Ind. Filed June 29, 1921.



Particular description of goods.—A Salve for Wounds, Sores, Eczema, and Skin Diseases.
Claims use since about May 28, 1921.

Ser. No. 149,815. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) POLAR SALVE COMPANY, New York, N. Y. Filed June 29, 1921.



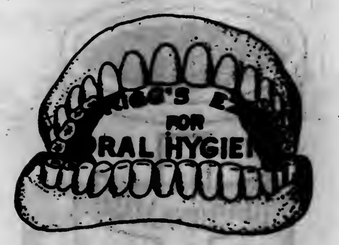
No claim is made to the word "Salve" apart from the mark shown.

Particular description of goods.—A Salve for the Treatment of Eczema, Leg-Ulcers, Piles, Old Sores, Burns, Scalds, Frost-Bites, Chapped Hands, Sunburn, Chafes, Sore Lips, Pimples, and All Eruptions of the Skin.

Claims use since Aug. 11, 1901.

Ser. No. 149,824. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. MARCUS STEWART, Charlotte, N. C. Filed June 29, 1921.

"RIGG'S EZE"



No claim is made to the words "For Oral Hygiene" apart from the mark shown by the drawing.

Particular description of goods.—A Solution for Use in the Treatment of Diseases of the Teeth, Throat, and Mouth.

Claims use since June 1, 1921.

Ser. No. 149,833. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN VARGA, South Bethlehem, Pa. Filed June 29, 1921.



Including applicant's portrait and autographic signature.

Particular description of goods.—Remedy for Hemorrhoids.

Claims use since about January, 1921.

Ser. No. 149,895. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) EMPIRE NOTION CO., New York, N. Y. Filed July 1, 1921.

HAIRPINET

Consisting of the word "Hairpinet."

Particular description of goods.—Hairpins.

Claims use since June 4, 1921.

Ser. No. 150,029. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RUB-TEX PRODUCTS, INC., Indianapolis, Ind. Filed July 5, 1921.

RUB-TEX

Particular description of goods.—Electric-Storage-Battery Boxes, Tops for Electric-Storage-Battery Boxes, and Screw-Caps for Electric-Storage-Battery Boxes.

Claims use since Feb. 15, 1921.

Ser. No. 150,046. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE WESTRIC BATTERY & SUPPLY COMPANY, Denver, Colo. Filed July 5, 1921.

WESTRIC

Particular description of goods.—Storage Batteries.

Claims use since about Jan. 1, 1920.

Ser. No. 150,094. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BERNHARD ULMANN CO. INC., New York, N. Y. Filed July 7, 1921.

KRAFTWEAVE

Particular description of goods.—Woven Textile Fabrics in the Piece Used as Foundation Material for Art-Needlework.

Claims use since June 20, 1921.

Ser. No. 150,097. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BERNHARD ULMANN CO. INC., New York, N. Y. Filed July 7, 1921.

TANGLEWEAVE

Particular description of goods.—Woven Textile Fabrics in the Piece Used as Foundation Material for Art-Needlework.

Claims use since June 20, 1921.

Ser. No. 150,099. (CLASS 15. OILS AND GREASES.) JOHN F. CAMPION, Tulsa, Okla. Filed July 7, 1921.

PROTEX

Particular description of goods.—Lubricating-Oils and Petroleum Lubricating-Greases, Gasolene, and Kerosene.

Claims use since June 18, 1921.

Ser. No. 150,196. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHAS. A. JEAN, Aurora, Ill. Filed July 9, 1921.



No claim being made to the word "Spread" apart from the other features of the mark shown in the drawing.

Particular description of goods.—Compound Nut-Butter, Apple-Butter, Catsup, and Honey.

Claims use since Jan. 20, 1921.

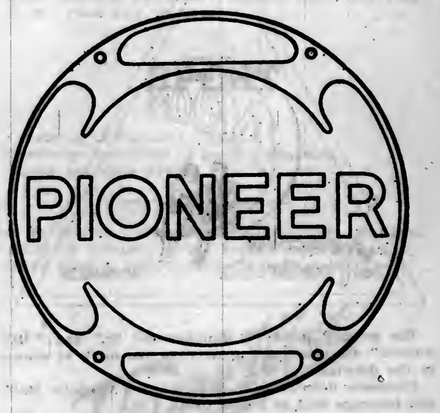
Ser. No. 150,222. (CLASS 38. PRINTS AND PUBLICATIONS.) THE CINCINNATI ART PUBLISHING COMPANY, Cincinnati, Ohio. Filed July 11, 1921.

Doll-Up

Particular description of goods.—Picture-Card Art Novelties in the Form of Printed or Hand-Tinted Cut-Out Figures.

Claims use since Apr. 25, 1921.

Ser. No. 150,242. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LOUISVILLE ELECTRIC MANUFACTURING COMPANY, Louisville, Ky. Filed July 11, 1921.



Particular description of goods.—Portable Electrically-Driven Tools, Electric Motors, Electric Generators, and Electrically-Driven Ice-Cream Freezers.

Claims use since July 7, 1921.

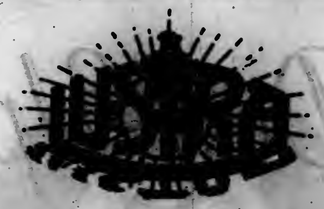
Ser. No. 150,273. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JUAN & MCCORMACK, New York, N. Y. Filed July 12, 1921.

PUREZA

Particular description of goods.—Condensed Milk.

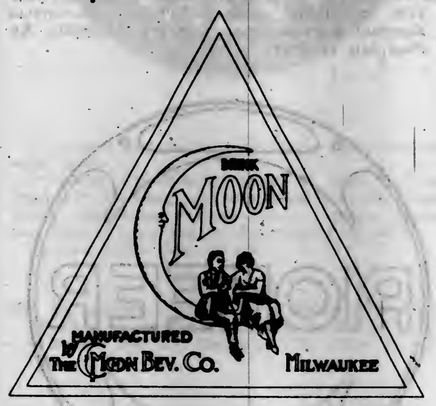
Claims use since Feb. 28, 1921.

Ser. No. 150,338. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) VINARD MANUFACTURING COMPANY, INC., Rochester, N. Y. Filed July 13, 1921.



Particular description of goods.—Polish and Cleaner for Automobiles, Furniture, and Wood.
Claims use since September, 1920.

Ser. No. 150,355. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE MOON BEVERAGE COMPANY, Milwaukee, Wis. Filed July 14, 1921.



The words "Drink," "Manufactured by," and "Milwaukee" are disclaimed apart from the mark as shown in the drawing.
Particular description of goods.—A Non-Alcoholic, Maltless Beverage Sold as a Soft Drink.
Claims use since June 15, 1921.

Ser. No. 150,526. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRY T. GARNER, Sioux Falls, S. D. Filed July 18, 1921.

Rat Knock Out



Particular description of goods.—Rodent-Poison in Powdered Form.
Claims use since Jan. 15, 1921.

Ser. No. 150,530. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HAPPIWORK. New York, N. Y. Filed July 18, 1921.

HAPPIWORK PACKAGES

No claim being made to the exclusive use of the word "Packages" apart from the mark as shown.
Particular description of goods.—Toys in Package-Containers Consisting of Materials for Kindergarten Occupational Work for Children Under the Following Subtitles: Krinkle Chains, (Paper Strips, Paste, and Beads for Making Various Toys,) Threadabout Pictures, (Sewing-Cards, Needle, Awl, Felt Pad, Floss, and Directions,) Foldabet Papers, (Paper, Crayons, Paste, &c., for Folding and Coloring Paper Toys,) Weavings, (Paper Mats and Strips and Weaving-Needle,) and Cut-Ups, (Paper Sheets for Cutting, with Paste.)
Claims use since June 1, 1921.

Ser. No. 150,548. (CLASS 38. PRINTS AND PUBLICATIONS.) CHARLES STANTON LOESER, San Francisco, Calif. Filed July 18, 1921.

THE Tourist Guide

Particular description of goods.—Printed Books, Including Maps, Published from Time to Time.
Claims use since May 20, 1919.

Ser. No. 150,554. (CLASS 32. FURNITURE AND UPHOLSTERY.) NORTHWESTERN BEDDING AND MANUFACTURING CO., St. Paul, Minn. Filed July 18, 1921.

MASCOT

Particular description of goods.—Bed-Springs.
Claims use since June 1, 1914.

Ser. No. 150,577. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALLACE & CO., Brooklyn, N. Y. Filed July 18, 1921.

MINTS OF ARABY

Particular description of goods.—Candies.
Claims use since November, 1918.

Ser. No. 150,610. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARIE MARTHE RICHARD VVE. GRENOVILLE, Asnieres, France. Filed July 19, 1921.

EAU DE COLOGNE CHAÎNE D'OR

No claim being made to the words "Eau de Cologne" apart from the mark as shown.
Particular description of goods.—Perfumes, Toilet Waters, Face-Lotions, Eau-de-Cologne, and Brilliantine.
Claims use since 1920.

Ser. No. 150,630. (CLASS 15. OILS AND GREASES.) OHIO VALLEY REFINING COMPANY, St. Marys, W. Va. Filed July 19, 1921.



The words "St. Mary's, W. Va." are disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Kerosene, Gasolene, Fuel-Oil, Lubricating-Oil, and Paraffin-Wax.
Claims use since July 25, 1917.

Ser. No. 150,664. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. A. FOLGER & CO., San Francisco, Calif. Filed July 20, 1921.

SHASTA



Particular description of goods.—Tea and Coffee.
Claims use since 1894.

Ser. No. 150,688. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ADOLPH KLAR, New York, N. Y. Filed July 20, 1921.

SPORT

Consisting of the word "Sport."
Particular description of goods.—Hair-Nets.
Claims use since 1912.

Ser. No. 150,710. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SIOUX FALLS COFFEE & SPICE CO., Sioux Falls, S. D. Filed July 20, 1921.



Particular description of goods.—Roasted Coffee.
Claims use since Apr. 29, 1921.

Ser. No. 150,737. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) DIACARBO DISC GRINDING COMPOUND CO., Milwaukee, Wis. Filed July 21, 1921.

"DIACARBO"

Particular description of goods.—Metal-Grinding Compound.
Claims use since Feb. 1, 1920.

Ser. No. 150,789. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GEORGE W. WACKER, Rutherford, N. J. Filed July 21, 1921.

GRAVINERT

Particular description of goods.—Electric Thief and Burglar Alarms.
Claims use since about June 15, 1921.

Ser. No. 150,797. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN CEREAL COFFEE COMPANY, Chicago, Ill. Filed July 22, 1921.

"JIFFEE-KUP"

Particular description of goods.—An Extract or Concentrate Used as a Substitute for Coffee.
Claims use since Apr. 8, 1921.

Ser. No. 150,857. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FANTIS & CUTSOGEORGE, New York, N. Y. Filed July 23, 1921.

FAROS

Consisting of the word "Faros."
Particular description of goods.—Olive Oil.
Claims use since May 26, 1921.

Ser. No. 150,873. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARIE DJANG-LURE CO., Seattle, Wash. Filed July 23, 1921.



Particular description of goods.—Toilet (Face) Powder.
Claims use since Mar. 14, 1921.

Ser. No. 150,875. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) H. G. MCFADDIN & CO., New York, N. Y. Filed July 23, 1921.

EMERALITE

Particular description of goods.—Portable Electric-Lighting Fixtures, Electric Desk-Lamps, Electric Dresser-Lamps, Electric Boudoir-Lamps, Electric Table-Lamps, and Electric Floor-Lamps.
Claims use since May, 1909.

Ser. No. 150,926. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ORGAN-IRON COMPANY, Omaha, Nebr. Filed July 25, 1921.

ALOLAX

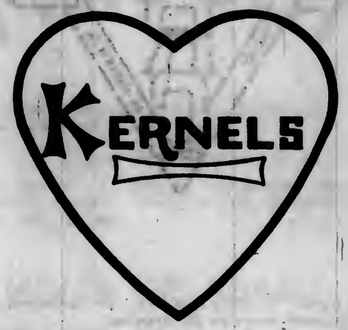
Particular description of goods.—Medicine Used in Cases of Constipation, Biliousness, Dissiness, Sick-Headache, and other Troubles Due to Torpidity of the Liver.
Claims use since May 15, 1921.

Ser. No. 150,963. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GRAFF, WASHBOURNE & DUNN, New York, N. Y. Filed July 26, 1921.

Airtona

Particular description of goods.—Electric Fans and Heaters.
Claims use since May 13, 1921.

Ser. No. 150,971. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LEWIS AND ROSS, Lebo, Kans. Filed July 26, 1921.



Particular description of goods.—Candy.
Claims use since about July 11, 1921.

Ser. No. 150,978. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Filed July 26, 1921.

TRUMPET

Particular description of goods.—Ice-Cream Cones.
Claims use since as early as July 8, 1921.

Ser. No. 150,984. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE WHITE MILLS OF NEW HAMPSHIRE, Winchendon and Winchendon Springs, Mass. Filed July 26, 1921.



The lining on the drawing merely expresses background shading.
Particular description of goods.—Cotton Piece Goods and Especially Denim.
Claims use since July 5, 1921.

Ser. No. 151,002. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GENERAL ELECTRIC COMPANY, Schenectady, N. Y. Filed July 27, 1921.

NOVALUX

Consisting of the word "Novalux."
Particular description of goods.—Electric-Light Fixtures.
Claims use since 1914.

Ser. No. 151,035. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE P. W. DRACKETT & SONS COMPANY, Cincinnati, Ohio. Filed July 28, 1921.

DRANO

Particular description of goods.—A Chemical for Cleaning Drains, Sinks, Washbowls, &c.
Claims use since January, 1921.

Ser. No. 151,043. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) NORMAN JACOBSEN, New York, N. Y. Filed July 28, 1921.

BROWN BEAR

Particular description of goods.—Dolls.
Claims use since July 14, 1921.

Ser. No. 151,044. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) NORMAN JACOBSEN, New York, N. Y. Filed July 28, 1921.

BUNINTHEFACE

Particular description of goods.—Dolls.
Claims use since July 14, 1921.

Ser. No. 151,045. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) NORMAN JACOBSEN, New York, N. Y. Filed July 28, 1921.

MINNEHAHA

Particular description of goods.—Dolls.
Claims use since July 14, 1921.

Ser. No. 151,072. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES G. WOODS, Jr., Burbank, Calif. Filed July 28, 1921.

GOPHER SCENT

Particular description of goods.—A Mixture for the Destruction of Rodents, Such as Gophers, Squirrels, Rats, &c.
Claims use since about Apr. 1, 1920.

Ser. No. 151,081. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GARNER PRINT WORKS AND BLEACHERY, New York, N. Y. Filed July 29, 1921.

BLUEBIRD

Consisting of the word "Bluebird."
Particular description of goods.—Mercerised and Unmercerised Lingerie-Cloth.
Claims use since May, 1919.

Ser. No. 151,089. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B. L. JOHNSON & Co., Knoxville, Tenn. Filed July 29, 1921.

Blue AND White

Particular description of goods.—Candy.
Claims use since Jan. 1, 1921.

Ser. No. 151,097. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) C. T. PERRY & COMPANY, Helena, Mont. Filed July 29, 1921.

NEAT-LAUNDRY
FLOATING SOAP

No claim is made to the use of the words "Laundry Floating Soap" apart from the mark shown by the drawing.
Particular description of goods.—Laundry Soap.
Claims use since July 15, 1921.

Ser. No. 151,141. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BIRCH CHEMICAL CO., Columbus, Ohio. Filed July 30, 1921.

DENZONA

Particular description of goods.—Liquid Dentifrices.
Claims use since Jan. 1, 1921.

Ser. No. 151,144. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BARNEY-BENNETT CO., Sioux City, Iowa. Filed July 30, 1921.



Particular description of goods.—Stomach Remedy.
Claim use since June 25, 1921.

Ser. No. 151,230. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) GEORGE W. PERKS, Akron, Ohio. Filed Aug. 1, 1921.



Particular description of goods.—Game-Boards.
Claims use since Jan. 17, 1921.

Ser. No. 151,261. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) DYAS & LE GROS, INCORPORATED, Chicago, Ill. Filed Aug. 2, 1921.

Permafill

Particular description of goods.—Wood-Filler in Liquid, Paste, or Dry Form.
Claims use since June 10, 1921.

Ser. No. 151,264. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EWELL FRUIT COMPANY, Watsonville, Calif. Filed Aug. 2, 1921.

FRESHNOW

Particular description of goods.—Dehydrated Fruit, (Apples.)
Claims use since June 11, 1921.

Ser. No. 151,293. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ARTHUR JOSEPH SCHULTZ, Los Angeles, Calif. Filed Aug. 2, 1921.

ENTERPRISE

Particular description of goods.—Honey.
Claims use since May 1, 1921.

Ser. No. 151,312. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) DURABLE UTILITIES MFG. CORP., Port Chester, N. Y. Filed Aug. 3, 1921.

DURCO-BUFFS
Are Better Buffs

No claim is made to the words "Buffs" and "Are Better Buffs" apart from the mark as shown in the drawing.
Particular description of goods.—Cotton Buffs.
Claims use since Jan. 1, 1921.

Ser. No. 151,321. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) Jacob Hoyer & Sons, Buffalo, N. Y. Filed Aug. 3, 1921.

BirchBuds

Particular description of goods.—Non-Alcoholic, Maltless Beverages and Syrups for Use in Making Non-Alcoholic, Maltless Beverages.
Claims use since on or about Apr. 18, 1921.

Ser. No. 151,541. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE HORN COMPANY, INCORPORATED, Louisville, Ky. Filed Aug. 8, 1921.

Colaroma

Particular description of goods.—Non-Alcoholic, Maltless Carbonated Soft Drinks and Fountain-Syrups.
Claims use since Sept. 19, 1919.

Ser. No. 151,564. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ABRAHAM SCHWAB, Memphis, Tenn. Filed Aug. 8, 1921.



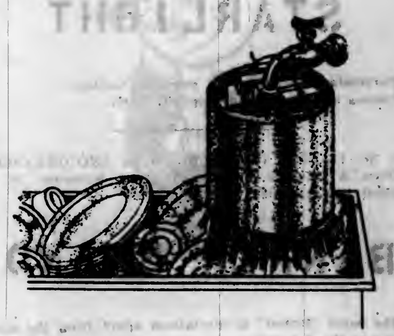
The color is not an essential feature of applicant's mark, and the lining is for shading only. The picture shown in the drawing is not a portrait.
Particular description of goods.—Toilet Soap.
Claims use since Aug. 3, 1921.

Ser. No. 151,653. (CLASS 15. OILS AND GREASES.) AZOTTE MANUFACTURING CO., Chicago, Ill. Filed Aug. 11, 1921.



Particular description of goods.—Lubricating-Oils.
Claims use since Jan. 8, 1921.

Ser. No. 151,666. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FITZPATRICK BROS., Chicago, Ill. Filed Aug. 11, 1921.



Particular description of goods.—Soap.
Claims use since about the middle of July, 1921.

Ser. No. 151,731. (CLASS 15. OILS AND GREASES.) WILL & BAUMER CANDLE CO. INC., Syracuse, N. Y. Filed Aug. 12, 1921.

MARBLE BRAND

The word "Brand" is disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Candles.
Claims use since about July 1, 1896.

Ser. No. 151,732. (CLASS 15. OILS AND GREASES.) WILL & BAUMER CANDLE CO. INC., Syracuse, N. Y. Filed Aug. 12, 1921.

STAR BRAND

The word "Brand" is disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Candles.
Claims use since about July 1, 1900.

Ser. No. 151,735. (CLASS 15. OILS AND GREASES.) WILL & BAUMER CANDLE CO. INC., Syracuse, N. Y. Filed Aug. 12, 1921.

ARGAND BRAND

The word "Brand" is disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Candles.
Claims use since about July 1, 1896.

Ser. No. 151,736. (CLASS 15. OILS AND GREASES.) WILL & BAUMER CANDLE CO. INC., Syracuse, N. Y. Filed Aug. 12, 1921.

STARLIGHT

Particular description of goods.—Candles.
Claims use since about Sept. 1, 1896.

Ser. No. 151,738. (CLASS 15. OILS AND GREASES.) WILL & BAUMER CANDLE CO. INC., Syracuse, N. Y. Filed Aug. 12, 1921.

BANNER BRAND

The word "Brand" is disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Candles.
Claims use since about July 1, 1911.

Ser. No. 151,748. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BAUER & BLACK, Chicago, Ill. Filed Aug. 13, 1921.



Particular description of goods.—Soap.
Claims use since May 28, 1921.

Ser. No. 151,790. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) W. M. FERGUSON, Fresno, Calif. Filed Aug. 15, 1921.



The rugs in connection with which the mark is used are built up of a woven base supporting scraps of fabric to form a wearing-surface, the scraps being woven into the base during the weaving of the rug. The alternate solid and lined parts forming the border of the rug indicate dark and lighter portions, respectively, regardless of the color scheme used. The words "New Art Fluff Rug, Fresno, California" and the representation of a rug are disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Rugs.
Claims use since June 23, 1921.

Ser. No. 151,792. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GLADIATOR MANUFACTURING COMPANY, Auburn, Ind. Filed Aug. 15, 1921.

GLADIATOR

Particular description of goods.—Timers for Electrical Ignition System for Hydrocarbon-Engines.
Claims use since Mar. 15, 1920.

Ser. No. 151,799. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JAMES S. KIRK & COMPANY, Chicago, Ill. Filed Aug. 15, 1921.



The lines on the drawing are intended to indicate the colors red, blue, and gold, in which colors the mark is ordinarily printed.
Particular description of goods.—Soap.
Claims use since on or about September, 1900.

Ser. No. 151,841. (CLASS 15. OILS AND GREASES.) MASON CITY OIL & GREASE COMPANY, Mason City, Iowa. Filed Aug. 16, 1921.

MEADOW

Particular description of goods.—Crude Oil Used Upon Hogs.
Claims use since February, 1918.

Ser. No. 151,867. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE DUNLOP RUBBER CO. LTD., Aston Cross, Birmingham, England. Filed Aug. 17, 1921.



Particular description of goods.—Golf-Balls.
Claims use since Nov. 16, 1916.

Ser. No. 151,868. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE DUNLOP RUBBER CO. LTD., Aston Cross, Birmingham, England. Filed Aug. 17, 1921.



Particular description of goods.—Golf-Balls.
Claims use since Nov. 16, 1916.

Ser. No. 151,869. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE DUNLOP RUBBER CO. LTD., Aston Cross, Birmingham, England. Filed Aug. 17, 1921.



Particular description of goods.—Golf-Balls.
Claims use since Nov. 16, 1916.

Ser. No. 151,870. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE DUNLOP RUBBER CO. LTD., Aston Cross, Birmingham, England. Filed Aug. 17, 1921.



Particular description of goods.—Golf-Balls.
Claims use since Nov. 16, 1916.

Ser. No. 151,921. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MORRIS, MANN & REILLY, Chicago, Ill. Filed Aug. 18, 1921.

Red Seal

Consisting of the words "Red Seal."
Particular description of goods.—Hair-Nets.
Claims use since May 2, 1910.

Ser. No. 151,928. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) EDITH S. SMITH, Watertown, N. Y. Filed Aug. 18, 1921.

KUDDLY KIDS

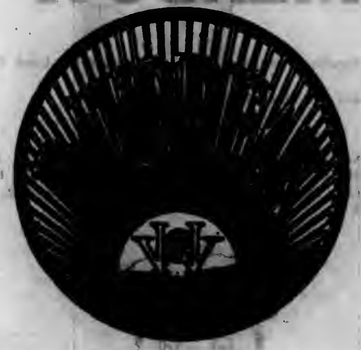
Particular description of goods.—Cloth Dolls.
Claims use since Dec. 2, 1920.

Ser. No. 151,931. (CLASS 15. OILS AND GREASES.) ASSOCIATED OIL COMPANY, San Francisco, Calif. Filed Aug. 19, 1921.

HEXEON CYCOL

Particular description of goods.—Lubricating Oils and Greases.
Claims use since May 12, 1921.

Ser. No. 151,933. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WYLD-REINSPUTER CO., New York, N. Y. Filed Aug. 20, 1921.



Particular description of goods.—Silks, Ribbons, Velvets, and Cotton Goods All in the Piece.
Claims use since Aug. 1, 1921.

Ser. No. 152,022. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) FRED MILLER BREWING COMPANY, Milwaukee, Wis. Filed Aug. 22, 1921.

HIGH LIFE

Particular description of goods.—Malt-Syrup.
Claims use since July 19, 1921.

Ser. No. 152,032. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) NATIONAL BEVERAGE DISTRIBUTING CO., Milwaukee, Wis. Filed Aug. 22, 1921.

BADGER

No claim being made to the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Liquid Malt Extract.
Claims use since Mar. 15, 1920.

Ser. No. 152,043. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) SCHOENHOFEN COMPANY, Chicago, Ill. Filed Aug. 22, 1921.

Edelweiss

Particular description of goods.—Orange-Soda, Cherry-Soda, Grape-Soda, Sarsaparilla, and Sparkling Water.
Claims use since July 15, 1921.

Ser. No. 152,199. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BIRTMAN ELECTRIC COMPANY, Chicago, Ill. Filed Aug. 26, 1921.

BIRCO

Particular description of goods.—Electric Motors.
Claims use since on or about Aug. 15, 1921.

Ser. No. 152,206. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) PHILIP I. KRIGER, Chicago, Ill. Filed Aug. 26, 1921.

MULE BRAND



No claim being made to the exclusive use of the word "Brand" apart from the mark shown on the drawing.
Particular description of goods.—Malt Extract.
Claims use since August, 1920.

Ser. No. 152,255. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HAAS BROTHERS FABRICS CORPORATION, New York, N. Y. Filed Aug. 27, 1921.

Wondora

Consisting of the word "Wondora."
Particular description of goods.—Silk, Linen, Woolen, and Cotton Piece Goods and Combinations Thereof.
Claims use since Mar. 1, 1921.

Ser. No. 152,304. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) GERHARD LANG BREWERY, Buffalo, N. Y. Filed Aug. 29, 1921.

NO-TROSE

Particular description of goods.—Malt-Syrup for Use in the Manufacture of Beverages.
Claims use since Feb. 1, 1921.

Ser. No. 152,387. (CLASS 32. FURNITURE AND UPHOLSTERY.) W. & J. SLOANE, New York, N. Y. Filed Aug. 30, 1921.

SAW-KILL

Particular description of goods.—Office Furniture: Desk, Desk-Chair, Secretary-Desk, Secretary-Desk Chair, Visitor's Chair, Magazine-Table, Magazine-Rack, Telephone-Table, Settee, Easy-Chair, Odd Small Tables, Bookcase, Revolving Bookcase, Costumer; Directors' Room Furniture: Directors' Table, Directors' Chairs, Easy-Chair, Sofa, Small Table, Console and Mirror, Telephone-Table, Settee, Small Tables, Secretary Note-Tables, Costumer, Bookcase; Dining-Room Furniture; Sideboard Serving-Table, Dining-Table, Draw-Top Table, Refectory-Table, Arm-Chair, Side Chair, China-Cabinet, Wall-Mirror, Commode, Gate-Leg Table, Drop-Leaf Table, Tea-Table, Tea-Wagons, Screens; Bed-Room Furniture: Twin Beds, Full-Size Beds, Day-Beds, Night-Tables, Dressing-Table, Vanity-Table, Low-Boy, Bureau, Commode, Chest of Drawers, Center Table, Chiffonniers, High-Boy, Wall-Mirror, Toilet-Mirror, Triple Dressing-Mirror, Chair, (Side,) Easy-Chair, Arm-Chair, Chaise-Longue, Bench, Costumer, Chifferobe; Odd Pieces of Furniture: Bookcase, Secretary-Bookcase, Sofa-Tables, Console-Tables, Nest of Tables.
Claims use since Aug. 24, 1921.

Ser. No. 152,406. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) AHLBELL BATTERY CONTAINER CORPORATION, Chicago, Ill. Filed Aug. 31, 1921.

Ahlbell

Particular description of goods.—Battery-Containers.
Claims use since July 4, 1921.

Ser. No. 152,422. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) MALT-DIASTASE COMPANY, New York, N. Y. Filed Aug. 31, 1921.



OLD HOMESTEAD

The portrait shown being a portrait of Denman Thompson, deceased.

Particular description of goods.—Concentrated Liquid Malt Extracts.

Claims use since Aug. 8, 1921.

Ser. No. 152,551. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GENERAL ELECTRIC COMPANY, Schenectady, N. Y. Filed Sept. 3, 1921.

SPRAGUELETS

Particular description of goods.—Outlet-Boxes and Fittings.

Claims use since on or about Nov. 20, 1920.

Ser. No. 152,579. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HILSON COLLINS CO. INCORPORATED, Louisville, Ky. Filed Sept. 7, 1921.

Jim Thorpe

Being a facsimile signature of Jim Thorpe.

Particular description of goods.—Baseball-Bats.

Claims use since Aug. 20, 1921.

Ser. No. 152,580. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HILTON COLLINS CO. INCORPORATED, Louisville, Ky. Filed Sept. 7, 1921.

A. E. Ellis

Being a facsimile signature of A. E. Ellis.

Particular description of goods.—Baseball-Bats.

Claims use since Aug. 20, 1921.

Ser. No. 152,681. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HILTON COLLINS CO. INCORPORATED, Louisville, Ky. Filed Sept. 7, 1921.

"Buck" Herzog.

Being a facsimile signature of "Buck Herzog."

Particular description of goods.—Baseball-Bats.

Claims use since Aug. 20, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

NOVEMBER 1, 1921.

147,746. WIRE CLOTH AND NETTING. THE AMERICAN CELLULOSE & CHEMICAL MANUFACTURING COMPANY, LIMITED, New York, N. Y.
Filed February 2, 1921. Serial No. 143,077. PUBLISHED JUNE 28, 1921.

147,747. PINS, SAFETY-PINS, AND HOOKS AND EYES. THE AMERICAN PIN COMPANY, Waterbury, Conn.
Filed January 22, 1921. Serial No. 142,576. PUBLISHED JUNE 14, 1921.

147,748. MATERIAL FOR CHILL-PROOFING AND STABILIZING BEVERAGES. AMERICAN TANSUL COMPANY, San Francisco, Calif.
Filed October 21, 1920. Serial No. 138,621. PUBLISHED JUNE 28, 1921.

147,749. TRIPOLI FLOUR, (GROUND TRIPOLI STONE.) AMERICAN TRIPOLI COMPANY, Seneca, Mo.
Filed July 22, 1920. Serial No. 135,259. PUBLISHED JULY 5, 1921.

147,750. A SALVE. MARTHA E. BEAUFORD, Los Angeles, Calif.
Filed February 3, 1921. Serial No. 143,115. PUBLISHED JUNE 21, 1921.

147,751. ELASTICS. WM. B. BLISS JR., & CO., New York, N. Y.
Filed August 13, 1920. Serial No. 136,061. PUBLISHED JUNE 14, 1921.

147,752. MEDICINE FOR THE RELIEF OF SUFFERERS FROM COLD AND CONSUMPTION. TONY F. BOOSER, East Millinocket, Me.
Filed October 19, 1920. Serial No. 138,470. PUBLISHED JUNE 28, 1921.

147,753. COMBS, HAIRPINS, CLASPS, AND HAIR ORNAMENTS MADE OF TORTOISE-SHELL, BONE, OR IVORY. AUGUSTE BONAZ, Paris, France.
Filed February 9, 1921. Serial No. 143,335. PUBLISHED JUNE 14, 1921.

147,754. HAIR-NETS. THE BONNIE-B COMPANY, INC., New York, N. Y.
Filed April 29, 1921. Serial No. 146,953. PUBLISHED JUNE 21, 1921.

147,755. WATCH-CRYSTALS. THE BOYD-MACDONALD COMPANY, New York, N. Y.
Filed May 17, 1921. Serial No. 147,817. PUBLISHED JULY 19, 1921.

147,756. NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME, AND SPRING-WATER, CARBONATED AND STILL. WILLIAM J. BRENDEL, Catonsville, Md.
Filed February 12, 1921. Seral No. 143,479. PUBLISHED JUNE 28, 1921.

147,757. TIRE-PUMPS. BRIDGEPORT BRASS COMPANY, Bridgeport, Conn.
Filed October 21, 1920. Serial No. 138,627. PUBLISHED JUNE 28, 1921.

147,758. ART-CALENDARS, GREETING-CARDS, AND MOTTOES. BROWN & BIGELOW, St. Paul, Minn.
Filed August 28, 1920. Serial No. 136,580. PUBLISHED JUNE 14, 1921.

147,759. GOLF SCORE-PADS AND CARDS AND COVERS THEREFOR. KENNETH W. BROWN, Yonkers, N. Y.
Filed October 23, 1920. Serial No. 138,702. PUBLISHED JUNE 28, 1921.

147,760. CORE-BINDING COMPOUND. THE CASEIN MANUFACTURING COMPANY, New York, N. Y.
Filed May 6, 1921. Serial No. 147,278. PUBLISHED JUNE 28, 1921.

147,761. DAIRY, STOCK, AND POULTRY MIXED FEEDS. CHAMPION MILLING & GRAIN CO., Clinton, Iowa.
Filed January 17, 1921. Serial No. 142,328. PUBLISHED JUNE 28, 1921.

147,762. A DETERGENT. THE CHEMICAL UTILITIES COMPANY, Cincinnati, Ohio.
Filed November 19, 1920. Serial No. 139,849. PUBLISHED JULY 5, 1921.

147,763. FOUNTAIN-PENS. THE CONKLIN PEN MANUFACTURING CO., Toledo, Ohio.
Filed May 6, 1920. Serial No. 132,084. PUBLISHED JUNE 7, 1921.

147,764. SOAP AND SOAP PASTE. THE JOSEPH CRAMER COMPANY, Cincinnati, Ohio.
Filed April 28, 1921. Serial No. 146,913. PUBLISHED JUNE 14, 1921.

147,765. WHITE, COLORED, MANILA, AND WAXED TISSUE-PAPERS. THE CRYSTAL TISSUE CO., Excello, Ohio.
Filed September 29, 1920. Serial No. 137,726. PUBLISHED JUNE 7, 1921.

147,766. LEATHER SHOES. THE DONALD SHOE COMPANY, Philadelphia, Pa.
Filed February 19, 1921. Serial No. 143,809. PUBLISHED JUNE 28, 1921.

147,767. A PREPARATION FOR CERTAIN NAMED PURPOSES. FAIRCHILD BROS. & FOSTER, New York, N. Y.
Filed February 10, 1921. Serial No. 143,389. PUBLISHED JUNE 28, 1921.

147,768. AUTOMOBILE-BUMPERS, PEDAL-RUBBERS MADE WHOLLY OR PARTLY OF RUBBER. THE FEDERAL RUBBER COMPANY, Cudahy, Wis.
Filed April 28, 1921. Serial No. 146,882. PUBLISHED JUNE 21, 1921.

147,769. AUTOMOBILE-BUMPERS, PEDAL-RUBBERS MADE WHOLLY OR PARTLY OF RUBBER. THE FEDERAL RUBBER COMPANY, Cudahy, Wis.
Filed April 28, 1921. Serial No. 146,889. PUBLISHED JUNE 21, 1921.

147,770. MATS AND MATTINGS MADE WHOLLY OR PARTLY OF RUBBER. THE FEDERAL RUBBER COMPANY, Cudahy, Wis.
Filed April 28, 1921. Serial No. 146,893. PUBLISHED JUNE 28, 1921.

147,771. AUTOMOBILE-BUMPERS, PEDAL-RUBBERS MADE WHOLLY OR PARTLY OF RUBBER. THE FEDERAL RUBBER COMPANY, Cudahy, Wis.
Filed April 28, 1921. Serial No. 146,896. PUBLISHED JUNE 21, 1921.

147,772. LIQUID TONIC HAVING STOMACHIC-STIMULANT AND LAXATIVE CHARACTERISTICS. HERMAN FIERMAN, Wilkes-Barre, Pa.
Filed February 9, 1921. Serial No. 143,353. PUBLISHED JUNE 21, 1921.

147,773. BATTERIES AND CERTAIN NAMED PARTS THEREOF. GENERAL LEAD BATTERIES COMPANY, Newark, N. J.
Filed September 14, 1920. Serial No. 137,172. PUBLISHED JUNE 7, 1921.

147,774. CONVEYER-BELTS MADE OF FABRIC COMBINED WITH RUBBER. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed May 10, 1921. Serial No. 147,506. PUBLISHED JUNE 28, 1921.

147,775. SILK, FABRIC, AND LEATHER GLOVES FOR MEN, WOMEN, AND CHILDREN. GEORGE A. GUBSZ, New York, N. Y.
Filed January 11, 1921. Serial No. 142,965. PUBLISHED JULY 5, 1921.

147,776. HATS. DE LUXE CAP CO., St. Louis, Mo.
Filed March 7, 1921. Serial No. 144,896. PUBLISHED JULY 12, 1921.

147,777. SHOE-POLISH. WARWICK HENDERSON, Newton Center, Mass., assignor to Kangaroo Polish Co., Newton, Mass., a Corporation of Massachusetts.
Filed February 16, 1921. Serial No. 143,640. PUBLISHED JUNE 14, 1921.

147,778. SILK GOODS IN THE PIECE. HENRI GUTMANN SILKS CORPORATION, New York, N. Y.
Filed August 9, 1920. Serial No. 135,928. PUBLISHED JULY 5, 1921.

147,779. CERTAIN CUTLERY AND TOOLS. J. W. IBBERSON, Sheffield, England.
Filed January 11, 1921. Serial No. 142,078. PUBLISHED JULY 19, 1921.

147,780. SILVER-PLATED FLAT-WARE—NAMELY, FORKS, SPOONS, LADLES, AND KNIVES. INTERNATIONAL SILVER COMPANY, Meriden and Waterbury, Conn.
Filed January 17, 1921. Serial No. 142,339. PUBLISHED JUNE 28, 1921.

147,781. GARTERS AND HOSE-SUPPORTERS. IVY CORSET COMPANY, Worcester, Mass.
Filed February 11, 1921. Serial No. 143,429. PUBLISHED JUNE 28, 1921.

147,782. SILKS IN THE PIECE. JANSEN & PRETSFELD, INC., New York, N. Y.
Filed April 25, 1921. Serial No. 146,708. PUBLISHED JUNE 21, 1921.

147,783. SILKS IN THE PIECE. JANSEN & PRETSFELD, INC., New York, N. Y.
Filed April 25, 1921. Serial No. 146,710. PUBLISHED JUNE 21, 1921.

147,784. DISINFECTANTS AND DEODORANTS. THE KEMIKO CO., Newark, N. J.
Filed February 9, 1921. Serial No. 143,359. PUBLISHED JUNE 28, 1921.

147,785. CERTAIN NAMED TOILET PREPARATIONS. THE KLINKER MANUFACTURING CO., Cleveland, Ohio.
Filed February 8, 1921. Serial No. 143,321. PUBLISHED JUNE 21, 1921.

147,786. CERTAIN NAMED TOILET PREPARATIONS. THE KLINKER MANUFACTURING CO., Cleveland, Ohio.
Filed February 8, 1921. Serial No. 143,322. PUBLISHED JUNE 21, 1921.

147,787. LAUNDRY SOAP. LABEIN CO., INC., Buffalo, N. Y.
Filed April 23, 1921. Serial No. 146,639. PUBLISHED JUNE 14, 1921.

147,788. CERTAIN TOOLS FOR GARAGE-WORK. LARSON TOOL AND STAMPING COMPANY, Attleboro, Mass.
Filed August 9, 1920. Serial No. 135,934. PUBLISHED JULY 5, 1921.

147,789. CAKES, CRACKERS, AND BISCUITS. LOOSE WILES BISCUIT COMPANY, Long Island City, N. Y.
Filed February 10, 1921. Serial No. 143,393. PUBLISHED JUNE 28, 1921.

147,790. A WEEKLY NEWSPAPER. JOSEPH P. MCADAMS, New York, N. Y.
Filed May 2, 1921. Serial No. 147,169. PUBLISHED JUNE 21, 1921.

147,791. SILK PIECE GOODS. H. R. MALLINSON & CO., INC., New York, N. Y.
Filed April 27, 1921. Serial No. 146,837. PUBLISHED JUNE 21, 1921.

147,792. SNAP-FASTENERS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed April 22, 1921. Serial No. 146,588. PUBLISHED JUNE 14, 1921.

147,793. SILK SKIRT-BRAID. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed April 22, 1921. Serial No. 146,543. PUBLISHED JUNE 14, 1921.

147,794. MAPLE-SUGAR, FRESH MILK, FRESH CREAM, BUTTER, CHEESE, AND EGGS. WILLARD S. MARTIN, Plainfield, Vt.
Filed January 20, 1921. Serial No. 142,505. PUBLISHED JUNE 28, 1921.

147,795. SILK GOODS IN THE PIECE. J. A. MIGEL INC., New York, N. Y.
Filed May 17, 1921. Serial No. 147,837. PUBLISHED JUNE 21, 1921.

147,796. LAWYER'S SYSTEMATIZED DIARY AND RECORD LEDGER-BOOKS. GEORGE L. MILLER, Cumberland, Md.
Filed February 11, 1921. Serial No. 143,445. PUBLISHED JUNE 28, 1921.

147,797. WASHING FLUIDS. HANNAH J. MILLER, Camden, N. J.
Filed April 25, 1921. Serial No. 146,725. PUBLISHED JUNE 21, 1921.

147,798. LIQUID RUBBER CEMENTS. MONTGOMERY BROS. INC., Philadelphia, Pa.
Filed April 27, 1921. Serial No. 146,840. PUBLISHED JUNE 28, 1921.

147,799. A CLEANING, POLISHING, AND DRESSING COMPOUND FOR AUTOMOBILES AND FURNITURE. THE MOUNTAIN STATES RUBBER COMPANY, Denver, Colo.
Filed August 30, 1920. Serial No. 136,636. PUBLISHED JULY 5, 1921.

147,800. SPARK-TIMERS FOR INTERNAL-COMBUSTION ENGINES. NECEDAH MANUFACTURING CO., Necedah, Wis.
Filed July 24, 1920. Serial No. 135,881. PUBLISHED JUNE 28, 1921.

147,801. TITLE OF A NEWSPAPER-SECTION. NEW YORK TRIBUNE INC., New York, N. Y.
Filed May 7, 1921. Serial No. 147,371. PUBLISHED JUNE 21, 1921.

147,802. INSULATED CONDUCTORS AND CABLES FOR ELECTRICAL PURPOSES. THE OKONITE COMPANY, Passaic, N. J.
Filed August 2, 1920. Serial No. 135,731. PUBLISHED JULY 5, 1921.

147,803. AUTOMOBILES. PACKARD MOTOR CAR COMPANY, Detroit, Mich.
Filed February 12, 1921. Serial No. 143,513. PUBLISHED JUNE 28, 1921.

147,804. SUN AND RAIN SHIELDS FOR AUTOMOBILES. EUGENE PALMUTH, San Francisco, Calif.
Filed April 22, 1921. Serial No. 146,660. PUBLISHED JUNE 28, 1921.

147,805. SODA-FOUNTAINS. ALBERT PICK & COMPANY, Chicago, Ill.
Filed February 11, 1921. Serial No. 143,448. PUBLISHED JUNE 28, 1921.

147,806. SOAPS. THE PIONEER TAR SOAP CO., Dayton, Ohio.
Filed Apr. 25, 1921. Serial No. 146,733. PUBLISHED JUNE 14, 1921.

147,807. KNITTED WOOLEN ARTICLES OF CLOTHING COMPRISING COATS, SKIRTS, SCARFS, CAPS, CARDIGANS, AND JERSEYS. H. W. PLANT & CO., LIMITED, Leicester, England.
Filed January 11, 1921. Serial No. 142,096. PUBLISHED JULY 5, 1921.

147,808. OLEOMARGARIN. THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio.
Filed February 17, 1921. Serial No. 143,703. PUBLISHED JUNE 28, 1921.

147,809. OLEOMARGIN. THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio.
Filed February 17, 1921. Serial No. 143,704. PUBLISHED JUNE 28, 1921.

147,810. COOKING-FATS. THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio.
Filed February 18, 1921. Serial No. 143,780. PUBLISHED JUNE 28, 1921.

147,811. MEDICINAL PREPARATION FOR CERTAIN NAMED USES. DAVID G. PUDDEBAUGH, Altoona, Pa.
Filed September 18, 1920. Serial No. 137,331. PUBLISHED JUNE 14, 1921.

147,812. MUCILAGE, ADHESIVE TAPES, LIQUID GLUE, AND LIQUID COURT-PLASTER. THE PURITAN DRUG MFG. CO., Columbus, Ohio.
Filed April 23, 1921. Serial No. 146,651. PUBLISHED JUNE 28, 1921.

147,813. HAIR-NETS. GUSTAV SATTLER, New York, N. Y.
Filed April 29, 1921. Serial No. 146,987. PUBLISHED JUNE 21, 1921.

147,814. SPRING-DRIVEN MOTORS, AND CERTAIN ACCESSORIES THEREFOR. SEARS, ROEBUCK AND COMPANY, New York, N. Y., and Chicago, Ill.
Filed October 4, 1920. Serial No. 137,895. PUBLISHED JULY 5, 1921.

147,815. T-BEVELS, HATCHET-GAGES, SQUARES, AND WING-DIVIDERS. SHAPLEIGH HARDWARE COMPANY, St. Louis, Mo.
Filed February 11, 1921. Serial No. 143,461. PUBLISHED JUNE 28, 1921.

147,816. POLISH FOR LEATHER. SOCIÉTÉ GÉNÉRALE DES CIRAGES FRANÇAIS, Paris, France.
Filed October 15, 1920. Serial No. 138,359. PUBLISHED MAY 3, 1921.

147,817. TALKING-MACHINES AND CERTAIN NAMED ATTACHMENTS AND SUPPLIES THEREFOR. T. & H. SPECIALTY MFG. CO. INC., Charleston, W. Va.
Filed September 30, 1920. Serial No. 137,791. PUBLISHED JUNE 7, 1921.

147,818. PHONOGRAPH. MITCHELL STEIGMAN, San Francisco, Calif.
Filed August 31, 1920. Serial No. 136,688. PUBLISHED JUNE 7, 1921.

147,819. HAIR-NETS. LEON STEIN, New York, N. Y.
Filed April 28, 1921. Serial No. 146,037. PUBLISHED JUNE 21, 1921.

147,820. HAIR-TONIC. ST. LAWRENCE MANUFACTURING COMPANY, Chicago, Ill.
Filed February 11, 1921. Serial No. 143,465. PUBLISHED JUNE 21, 1921.

147,821. YARNS. TOULSON & RENESCH, Bridgeport, Conn.
Filed May 5, 1921. Serial No. 147,264. PUBLISHED JUNE 28, 1921.

147,822. SALVE FOR CUTS, BURNS, SORES, BRUISES, BOILS, AND ALL SKIN DISEASES. JOHN C. TRASK, Salem, Mass.
Filed February 12, 1921. Serial No. 143,520. PUBLISHED JUNE 28, 1921.

147,823. SAND-OPERATED AND DRAFT-OPERATED TOYS. THE TUB-BOY CO., St. Louis, Mo.
Filed August 27, 1920. Serial No. 136,574. PUBLISHED JUNE 21, 1921.

147,824. CERTAIN NAMED LUMBER. J. W. TURNBULL LUMBER COMPANY, Philadelphia, Pa.
Filed February 10, 1921. Serial No. 143,413. PUBLISHED JUNE 28, 1921.

147,825. FERTILIZERS. UNITED FERTILIZER COMPANY, Carrollville, Wis.
Filed May 6, 1921. Serial No. 147,324. PUBLISHED JUNE 28, 1921.

147,826. AN INGREDIENT USED IN MANUFACTURE OF BREAD AND OTHER KINDS OF BAKED FOODS. WARD BAKING COMPANY, New York, N. Y.
Filed November 17, 1920. Serial No. 139,763. PUBLISHED JUNE 28, 1921.

147,827. ELECTRIC-RESISTANCE UNITS, RHEOSTATS, REGULATORS, AND ELECTRIC RESISTORS. WARD LEONARD ELECTRIC COMPANY, Mount Vernon, N. Y.
Filed February 10, 1921. Serial No. 143,397. PUBLISHED JUNE 7, 1921.

147,828. ELECTRIC-RESISTANCE UNITS, RHEOSTATS, REGULATORS, AND ELECTRIC RESISTORS. WARD LEONARD ELECTRIC COMPANY, Mount Vernon, N. Y.
Filed February 11, 1921. Serial No. 143,467. PUBLISHED JUNE 7, 1921.

147,829. PHOTOGRAPHS. WILLIAM O. WELCH, Milwaukee, Wis.
Filed April 27, 1921. Serial No. 146,855. PUBLISHED JUNE 21, 1921.

147,830. IMPREGNATED OR COATED WOVEN FABRICS—NAMELY, IMITATION-LEATHER AND WATERPROOF CLOTH. WESTERN CARTRIDGE COMPANY, East Alton and Springfield, Ill.
Filed February 17, 1921. Serial No. 143,726. PUBLISHED JUNE 28, 1921.

147,831. GARMENT-HANGERS, FLY TRAPS AND SWATTERS, AND RAT, MOUSE, AND VERMIN TRAPS. WICKWIRE SPENCER STEEL CORPORATION, Worcester, Mass.
Filed May 2, 1921. Serial No. 147,148. PUBLISHED JUNE 28, 1921.

147,832. BEADED BAGS. H. WOLFF & CO., New York, N. Y.
Filed January 18, 1921. Serial No. 142,433. PUBLISHED JUNE 14, 1921.

147,833. HAND-STAMPS, PARTICULARLY HAND-RUBBER, OR TYPE STAMPS. WORCESTER OFFICE SUPPLIES COMPANY, INCORPORATED, Worcester, Mass.
Filed March 28, 1921. Serial No. 145,376. PUBLISHED JUNE 7, 1921.

147,892. PERIODICAL ISSUED MONTHLY. LEVY LEGG WARREN, Louisville, Ky.
Filed January 24, 1921. Serial No. 142,742. PUBLISHED JUNE 14, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

NOVEMBER 1, 1921.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

147,834. (CLASS 39. CLOTHING.) WILLIAM ABRAMS, New York, N. Y. Filed Feb. 26, 1921. Serial No. 144,060.

Carlisle

Particular description of goods.—Outer Shirts and Dress-Shirts.
Claims use since Jan. 1, 1920.

147,835. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ACHESON GRAPHITE COMPANY, Niagara Falls, N. Y. Filed Nov. 29, 1920. Serial No. 140,370.

ACHESON

Particular description of goods.—Graphite and Amorphous Carbon.
Claims use since March, 1889.

147,836. (CLASS 39. CLOTHING.) BARKE, GIBBON COMPANY, Philadelphia, Pa. Filed Apr. 30, 1921. Serial No. 147,006.

"Gibbon"

Particular description of goods.—Women's and Misses' Shoes of Leather and of Fabric.
Claims use since Aug. 15, 1919.

147,837. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE BAY CITY SPRING & MATTRESS CO., Bay City, Mich. Filed June 21, 1921. Serial No. 149,440.

SLEEP-WELL

Particular description of goods.—Mattresses, Pillows, Bed-Springs, Brass and Iron Beds.
Claims use since Sept. 1, 1919.

147,838. (CLASS 39. CLOTHING.) BERENDSEN SILK CO., Bangor, Pa. Filed Jan. 12, 1921. Serial No. 142,122.

HIGH POINT

Particular description of goods.—Ladies' Hosiery.
Claims use since July 15, 1920.

147,839. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE BRIDGEPORT COACH LACE CO., Bridgeport, Conn. Filed Nov. 26, 1920. Serial No. 140,162.

"TUFHYDE"

Particular description of goods.—Imitation Leather.
Claims use since July 15, 1920.

147,840. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CECILIA J. BROWN, Stapleton, (New York,) N. Y. Filed May 20, 1921. Serial No. 147,950.

SAVE THE MOTHER

Particular description of goods.—A Medicinal Preparation for Certain Named Purposes.
Claims use since Aug. 1, 1920.

147,841. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE CHICAGO LABEL AND BOX CO., Chicago, Ill. Filed Dec 21, 1920. Serial No. 141,360.

The PERFECTION

Particular description of goods.—Prescription File-Cases.
Claims use since May 15, 1894.

147,842. (CLASS 39. CLOTHING.) CHIPMAN KNITTING MILLS, Easton, Pa. Filed June 26, 1920. Serial No. 134,236.

Form-Fashioned

Particular description of goods.—Hosiery for Men, Women, and Children.
Claims use since June 11, 1920.

147,843. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CONTINENTAL MILLS, INC., Philadelphia, Pa. Filed May 8, 1919. Serial No. 118,256.

FULWOOL

Particular description of goods.—Jersey Cloth.
Claims use since Mar. 4, 1919.

147,844. (CLASS 39. CLOTHING.) JOHN & JAMES DOBSON, INC., New York, N. Y. Filed May 10, 1921. Serial No. 147,515.

Dobson's

HUDSON SEAL PLUSH

Particular description of goods.—Plush Coats for Ladies and Misses.
Claims use since Apr. 15, 1916.

147,845. (CLASS 39. CLOTHING.) DURHAM HOSIERY MILLS, Durham, N. C., and New York, N. Y. Filed Jan. 13, 1921. Serial No. 142,202.

DURABLE

DURHAM

HOSIERY

Particular description of goods.—Hosiery.
Claims use since Nov. 1, 1917.

147,846. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE ECLIPSE MANUFACTURING COMPANY, Indianapolis, Ind. Filed July 2, 1920. Serial No. 134,506.

METALGLAS

Particular description of goods.—Polishing Composition in Cake and Solid Form for Metal and Glass.
Claims use since Jan. 16, 1919.

Ser. No. 147,847. (CLASS 39. CLOTHING.) FINE & LEVY, New York, N. Y. Filed Aug. 28, 1920. Serial No. 136,588.

SURE-FIT

Particular description of goods.—Men's and Boys' Hats and Caps.
Claims use since July 1, 1920.

147,848. (CLASS 39. CLOTHING.) FOOT, SCHULZE & CO., Dover, Del., and St. Paul, Minn. Filed Oct. 1, 1920. Serial No. 137,806.

NU-LINE

Particular description of goods.—Leather Boots and Shoes.
Claims use since Aug. 1, 1920.

147,849. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) FOSS LAUNCH & TUG COMPANY, Tacoma, Wash. Filed June 21, 1921. Serial No. 149,447.

"ALWAYS READY"

Particular description of goods.—Tugs and Barges.
Claims use since Jan. 2, 1917.

147,850. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE GIBBS MANUFACTURING COMPANY, Canton, Ohio. Filed July 19, 1921. Serial No. 150,615.

VASSAR

Particular description of goods.—Embroidery-Hoops.
Claims use since April, 1902.

147,851. (CLASS 39. CLOTHING.) GOODMAN HOSIERY MILLS, Indianapolis, Ind. Filed Apr. 9, 1921. Serial No. 145,944.

PURE SILK
FROM MILL TO PHILLIPS

Particular description of goods.—Hosiery.
Claims use since Feb. 6, 1920.

147,852. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GRIGGS BROS. CO., Toledo, Ohio. Filed May 13, 1921. Serial No. 147,065.

GRIGGS BROTHERS

Particular description of goods.—Honey.
Claims use since January, 1903.

147,853. (CLASS 32. FURNITURE AND UPHOLSTERY.) ELI GUGGENHEIM, Cincinnati, Ohio. Filed July 5, 1919. Serial No. 120,284.

HEIR LOOM

Particular description of goods.—Certain Named Articles of Household Furniture.
Claims use since Mar. 20, 1919.

147,854. (CLASS 39. CLOTHING.) DAVID HARRIS & EISNER, Scranton, Pa. Filed Feb. 16, 1921. Serial No. 143,642.

Betterwoven

Particular description of goods.—Knit Goods—Namely, Hosiery, Sweaters, Underwear, and Work-Shirts.
Claims use since January, 1919.

147,855. (CLASS 39. CLOTHING.) HATHEWAY & REYNOLDS, Oriskany Falls, N. Y. Filed Apr. 5, 1921. Serial No. 145,746.

QUALITY RIGHT

Particular description of goods.—Sweaters, Sweater-Coats, and Men's and Ladies' Knit Underwear.
Claims use since 1905.

147,856. (CLASS 39. CLOTHING.) HATHEWAY & REYNOLDS, Oriskany Falls, N. Y. Filed Apr. 5, 1921. Serial No. 145,747.

ORIS KANY

Particular description of goods.—Sweaters, Sweater-Coats, and Men's and Ladies' Knit Underwear.
Claims use since Jan. 1, 1916.

147,857. (CLASS 39. CLOTHING.) WILLIAM HOLLINS & CO. INC., New York, N. Y. Filed Nov. 24, 1920. Serial No. 140,121.

Hollins

Particular description of goods.—Certain Articles of Clothing.
Claims use since June 12, 1920.

147,858. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. L. HOPKINS & CO., New York, N. Y. Filed Sept. 23, 1920. Serial No. 137,525.

HENASOAP

Particular description of goods.—A Shampooing Preparation.
Claims use since Aug. 31, 1920.

147,859. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PHILIP IRVING JACOBY, San Francisco, Calif. Filed Aug. 30, 1919. Serial No. 122,170.

Dolly Good

Particular description of goods.—Cakes in Animal Shapes.
Claims use since July 15, 1919.

147,860. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE JOHNS-PRATT COMPANY, Hartford, Conn. Filed Jan. 27, 1921. Serial No. 142,846.

ALLSAFE

Particular description of goods.—Electric Switches, Cut-Outs, and Parts Thereof.
Claims use since Dec. 20, 1918.

147,861. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. A. JOHNSON CO., Boston, Mass. Filed July 1, 1921. Serial No. 149,912.

BESTOVALL

Particular description of goods.—Baking-Powder, Cream of Tartar, Cream-of-Tartar Substitutes, Baking-Soda, and Salt.
Claims use since March, 1911.

147,862. (CLASS 39. CLOTHING.) KAHN MANUFACTURING COMPANY, Mobile, Ala. Filed Feb. 19, 1921. Serial No. 143,522.

"PANAMA"

Particular description of goods.—Overalls, Coveralls, Trousers, and Palm Beach Suits.
Claims use since Jan. 1, 1910.

147,863. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ADOLPH KLAR, New York, N. Y. Filed July 20, 1921. Serial No. 150,684.

FASHIONABLE

Particular description of goods.—Hair-Nets.
Claims use since 1909.

147,864. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ADOLPH KLAR, New York, N. Y. Filed July 20, 1921. Serial No. 150,689.

"Hold-Tight"

Particular description of goods.—Hair-Nets.
Claims use since November, 1907.

147,865. (CLASS 39. CLOTHING.) KORRECT KLOTHES, INC., St. Louis, Mo. Filed Mar. 7, 1921. Serial No. 144,396.

KORREKT

Particular description of goods.—Knee-Pants, Trousers, Coats, Vests, and Overcoats.
Claims use since February, 1911.

147,866. (CLASS 39. CLOTHING.) THE KRIPPENDORF, DITTMANN CO., Cincinnati, Ohio. Filed Sept. 7, 1920. Serial No. 136,896.

Nature-arch

Particular description of goods.—Ladies' and Misses' Leather Shoes.
Claims use since Aug. 2, 1912.

147,867. (CLASS 12. CONSTRUCTION MATERIALS.) J. F. KURFEES PAINT COMPANY INCORPORATED, Louisville, Ky. Filed Nov. 27, 1920. Serial No. 140,336.

LEAK-SEAL

Particular description of goods.—Compound in Paste Form for Patching Roofs.
Claims use since Oct. 2, 1917.

147,868. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LOS ANGELES SOAP CO., Los Angeles, Calif. Filed Apr. 22, 1921. Serial No. 146,567.

BIG CHUNK



Particular description of goods.—Laundry Soap.
Claims use since Nov. 1, 1915.

147,869. (CLASS 39. CLOTHING.) ELIAS LUSTIG, New York, N. Y. Filed Jan. 24, 1921. Serial No. 142,711.

SUPERIORITY ELLIS BRAND INDIVIDUALITY

Particular description of goods.—Men's Hats.
Claims use since Oct. 15, 1918.

147,870. (CLASS 39. CLOTHING.) THE CHAS. E LYNCH SHOE MFG. CO., INC., Poughkeepsie and New York, N. Y. Filed Sept. 22, 1919. Serial No. 122,000.

FLAT FOOT

Particular description of goods.—Boots and Shoes All of Leather.
Claims use since December, 1918.

147,871. (CLASS 32. FURNITURE AND UPHOLSTERY.) MCROSKEY & CO., San Francisco, Calif. Filed Aug. 31, 1921. Serial No. 152,429.

SLEEP ON A McROSKEY

Particular description of goods.—Mattresses.
Claims use since 1907.

147,872. (CLASS 32. FURNITURE AND UPHOLSTERY.) MCROSKEY & CO., San Francisco, Calif. Filed Aug. 31, 1921. Serial No. 152,431.

THE McROSKEY

Particular description of goods.—Mattresses.
Claims use since 1907.

147,873. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELGIN MARGARINE CO., Elgin, Ill. Filed May 18, 1921. Serial No. 147,871.

ELGIN

Particular description of goods.—Oleomargarin and Nut-Margarin.
Claims use since on or about Sept. 5, 1919.

147,874. (CLASS 39. CLOTHING.) ISADORE MATISON, Nashville, Tenn. Filed Feb. 15, 1921. Serial No. 143,614.

PUNCTURELESS

Particular description of goods.—Hosiery.
Claims use since 1910.

147,875. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MOREY FLUX & CHEMICAL COMPANY, INC., Parkersburg, Pa. Filed May 19, 1921. Serial No. 147,932.

Morey

Particular description of goods.—Welding-Fluxes.
Claims use since Jan. 2, 1913.

147,876. (CLASS 37. PAPER AND STATIONERY.) NEW SAFETY PAPER COMPANY, Boston, Mass. Filed May 1, 1920. Serial No. 131,980.

IT'S WHITE

Particular description of goods.—Paper to Receive Writing.
Claims use since Jan. 28, 1919.

147,877. (CLASS 39. CLOTHING.) NORWICH KNITTING CO., Norwich, N. Y. Filed Apr. 12, 1921. Serial No. 146,082.

Norwich

Particular description of goods.—Knitted Underwear—viz., Shirts, Drawers, and Union-Suits for Men, Women, and Children.
Claims use since 1916.

147,878. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OMAHA ALFALFA MILLING COMPANY, Omaha, Nebr. Filed May 20, 1921. Serial No. 147,961.

PEERLESS

Particular description of goods.—Horse Feed.
Claims use since June 7, 1912.

147,879. (CLASS 39. CLOTHING.) A. MORTON OPPENHEIM, New York, N. Y. Filed Apr. 20, 1921. Serial No. 146,450.

A. Morton Oppenheim

Particular description of goods.—Certain Articles of Clothing.
Claims use since 1909.

147,880. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B. S. PEARSALL BUTTER CO., Elgin, Ill. Filed May 20, 1921. Serial No. 147,986.

ALGOOD

Particular description of goods.—Margarin.
Claims use since on or about Nov. 1, 1915.

147,881. (CLASS 39. CLOTHING.) RHEA MANUFACTURING COMPANY, Milwaukee, Wis. Filed May 6, 1921. Serial No. 147,810.

RHEA

Particular description of goods.—Women's Aprons and Bloomers.
Claims use since March, 1919.

147,882. (CLASS 39. CLOTHING.) M. SAMUELS & Co., Baltimore, Md. Filed Mar. 31, 1921. Serial No. 145,533.

Newark

Particular description of goods.—Leather and Fibrous Boots, Shoes, and Slippers.
Claims use since Mar. 1, 1911.

147,883. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE SANFORD MOTOR TRUCK COMPANY, Syracuse, N. Y. Filed June 28, 1920. Serial No. 134,335.

Sanford

Particular description of goods.—Motor-Trucks.
Claims use since June, 1910.

147,884. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES V. SPARHAWK, INCORPORATED, New York, N. Y. Filed May 17, 1921. Serial No. 147,851.

MYNT

Particular description of goods.—Food Flavoring Oils and Extracts.
Claims use since Sept. 9, 1918.

147,885. (CLASS 2. RECEPTACLES.) STANDARD CORRUGATED BOX CO., St. Louis, Mo. Filed July 16, 1919. Serial No. 120,624.

"Standard"

Particular description of goods.—Straw-Board Boxes.
Claims use since May 7, 1919.

147,886. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SUPERIOR HONEY COMPANY, Ogden, Utah. Filed June 6, 1921. Serial No. 148,771.

SUPERIOR

Particular description of goods.—Honey.
Claims use since June 1, 1903.

147,887. (CLASS 20. LINOLEUM AND OILED CLOTH.) TEKOLEUM COMPANY OF NEW YORK, New York, N. Y. Filed Dec. 3, 1920. Serial No. 140,579.

RUGS DE-LUXE

Particular description of goods.—Oil-Cloth, Linoleum, Mats and Rugs in the Nature of Linoleum and Oil-Cloth.
Claims use since Apr. 1, 1920.

147,888. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) TORSCH PACKING CO., Baltimore, Md. Filed July 27, 1921. Serial No. 151,192.



Particular description of goods.—Crushed Oyster-Shells.
Claims use since September, 1912.

147,889. (CLASS 39. CLOTHING.) ELMER EDWARD WAGNER, Hazleton, Pa. Filed Dec. 6, 1920. Serial No. 140,700.

"MINERS' SPECIAL"

Particular description of goods.—Overalls and Jackets.
Claims use since April, 1919.

147,890. (CLASS 39. CLOTHING.) WAYNE KNITTING MILLS, Fort Wayne, Ind. Filed May 2, 1921. Serial No. 147,144.

FLARE TOP

Particular description of goods.—Hosiery.
Claims use since Nov. 20, 1905.

147,891. (CLASS 39. CLOTHING.) YORKSHIRE KNITTING CO. INC., New York, N. Y. Filed Mar. 3, 1921. Serial No. 144,305.

YORKSHIRE KNIT WEAR

Particular description of goods.—Certain Articles of Clothing.
Claims use since on or about Sept. 1, 1916.

TRADE-MARK REGISTRATIONS CANCELED.

107,118. CANNED SALMON. LEE H. WAKEFIELD, Seattle, Wash.
Registered November 9, 1915. Canceled September 9, 1921.

118,610. COCOA. SAMUEL ZECHNOWITZ, New York, N. Y.
Registered September 18, 1917. Canceled July 29, 1921.

122,189. CERTAIN NAMED CLOTHING FOR MEN AND BOYS. CARSON, PIRIE, SCOTT & Co., Chicago, Ill.
Registered July 9, 1918. Canceled September 21, 1921.

130,184. CIGARS. PANTELI HECTOR, Springfield, Mass.
Registered April 13, 1920. Canceled September 1, 1921.

139,678. BED-SPRINGS OR SPRING-MATTRESSES FOR BEDS. GABAU-THOMPSON COMPANY, INC., Brooklyn, N. Y.
Registered February 8, 1921. Canceled October 1, 1921.



LABELS

REGISTERED NOVEMBER 1, 1921.

23,584.—*Title:* "TWO BULLDOGS, SPLENDORA MILLS, AND A DESCRIPTIVE PARAGRAPH IN THE ENGLISH AND SEVEN FOREIGN LANGUAGES." (For Sheetings and Drills.) PETER C. ALEXANDER, New York, N. Y. Filed April 11, 1921.

23,585.—*Title:* "BEDS AND SPRINGS—FIT FOR KINGS." (For Beds and Springs.) THE BLUE SEAL BED SPRING Co., Brooklyn, N. Y. Filed August 22, 1921.

23,586.—*Title:* "'FIN-TWISTER' PARTICULARLY USEFUL ON FORD CARS." (For Box-Tops.) BONNEY VISE & TOOL WORKS, Allentown, Pa. Filed December 31, 1920.

23,587.—*Title:* "BRADLEY'S." (For Paints.) BRADLEY-WISE PAINT COMPANY, Los Angeles, Calif. Filed August 29, 1921.

23,588.—*Title:* "CALIFORNIA HOME." (For Pickles.) CALIFORNIA CONSERVING Co., San Francisco, Calif. Filed August 29, 1921.

23,589.—*Title:* "MARATHON." (For Chocolates.) D'ORLANDO Co., Boston, Mass. Filed August 29, 1921.

23,590.—*Title:* "FIRST NATIONAL P. B. P." (For Bottles Containing a Medicine for Restoring Lost Vitality of Men and for Upbuilding the Nervous System.) FIRST NATIONAL PHARMACY, Lehighton, Pa. Filed July 6, 1921.

23,591.—*Title:* "LASSIE." (For Hair-Nets.) THE B. FRANKEL COMPANY, INC., New York, N. Y. Filed July 15, 1921.

23,592.—*Title:* "THE HOME-MADE BOX." (For Boxes Containing Chocolate Candies.) FREDERICK & NELSON, Seattle, Wash. Filed August 25, 1921.

23,593.—*Title:* "BUTTER SWEET CORN." (For Confections.) GOELITZ-CONFECTIONERY Co., North Chicago, Ill. Filed June 16, 1921.

23,594.—*Title:* "MARY WAYNE." (For Candies.) HEIT-MILLER-LAU COMPANY, Fort Wayne, Ind. Filed June 28, 1921.

23,595.—*Title:* "PEANUT ANDY." (For Peanut Candy.) MARTIN M. HOFFMAN, Oakland, Calif. Filed May 5, 1921.

23,596.—*Title:* "ALPHA AUTOMOBILE POLISH." (For Bottles Containing a Polish for Automobiles.) GEORGE W. JONCKEL, Baltimore, Md. Filed July 12, 1921.

23,597.—*Title:* "'HOLD-TIGHT.'". (For Hair-Nets.) ADOLPH KLAR, New York, N. Y. Filed July 26, 1921.

23,598.—*Title:* "MOTHER HOUGHTON'S CHICKEN HAMBURG." (For Cooked Meat—Namely, Chicken Hamburg.) DUKE LA FORTUNE, Springfield, Mass. Filed May 14, 1921.

23,599.—*Title:* "A. L. BRAND." (For Hair-Preservative.) ABRAHAM LICHTSTEIN, Pittsburgh, Pa. Filed July 27, 1921.

23,600.—*Title:* "A. L. BRAND." (For Dandruff Remedy.) ABRAHAM LICHTSTEIN, Pittsburgh, Pa. Filed July 27, 1921.

23,601.—*Title:* "STICK QUICK." (For Gummed Paper and Cloth." MID-STATES GUMMED PAPER Co., Chicago, Ill. Filed June 28, 1921.

23,602.—*Title:* "CAMEO JEWEL BOX." (For Cartons or other Containers for This Jewel-Box.) MILLER BROTHERS, New York, N. Y. Filed July 27, 1921.

23,603.—*Title:* "NUTRITIOUS BREAD CLEAN." (For Bread.) LEO SIMON, Natchez, Miss. Filed August 1, 1921.

23,604.—*Title:* "STEVENS NOVELITE BEDSPREAD." (For Bedspreads.) STEVENS MANUFACTURING Co., Fall River, Mass. Filed January 28, 1921.

23,605.—*Title:* "TRUE SHAPE." (For Hosiery.) TRUE SHAPE HOSIERY Co., Philadelphia, Pa. Filed July 25, 1921.

23,606.—*Title:* "KING PACKING RING." (For Boxes Containing King Packing-Rings.) THE UNITED STATES METALLIC PACKING COMPANY, Philadelphia, Pa. Filed July 27, 1921.

23,607.—*Title:* "KING PACKING RING." (For Boxes Containing King Packing-Rings.) THE UNITED STATES METALLIC PACKING COMPANY, Philadelphia, Pa. Filed July 27, 1921.

23,608.—*Title:* "KING PACKING RING." (For Boxes Containing King Packing-Rings.) THE UNITED STATES METALLIC PACKING COMPANY, Philadelphia, Pa. Filed July 27, 1921.

23,609.—*Title:* "KING PACKING RING." (For Boxes Containing King Packing-Rings.) THE UNITED STATES METALLIC PACKING COMPANY, Philadelphia, Pa. Filed July 27, 1921.

23,610.—*Title:* "RYAN'S VAN-ROUGE." (For a Fruit Beverage.) VAN ROUGE Co., INC., Minneapolis, Minn. Filed May 31, 1921.

23,611.—*Title:* "LA CREOLE HAIR DRESSING." (For Cartons in Which are Bottles Containing a Hair-Tonic.) VAN VLEET-MANSFIELD DRUG Co., Memphis, Tenn. Filed March 23, 1920.

23,612.—*Title:* "VOLKER'S BOHEMIAN BRAND." (For Tins Containing Malt Extract.) CHAS. VOLKER & SON, Chicago, Ill. Filed August 1, 1921.

23,613.—*Title:* "OVALTINE." (For Tins Containing Ovaltine.) THE WANDER COMPANY, Chicago, Ill. Filed August 18, 1921.

23,614.—*Title:* "THE GAME OF TRAPS." (For a Game.) ALFRED S. WITTER, Seattle, Wash. Filed August 27, 1921.

PRINTS

REGISTERED NOVEMBER 1, 1921.

5,824.—*Title:* "KEPT CLEAN WITH GOLD DUST (ICE BOX DESIGN)." (For Advertising Purposes for Gold Dust Washing Powder.) THE N. K. FAIRBANK COMPANY, New York, N. Y. Filed August 6, 1921.

5,825.—*Title:* "PEANUT ANDY." (For Advertising Purposes for Peanut Candy.) MARTIN M. HOFFMAN, Oakland, Calif. Filed May 5, 1921.

5,826.—*Title:* "KATZ PAYS THE TAX." (For Advertising Purposes for Cigars and Tobacco.) I. AND M. KATZ, Kansas City, Mo. Filed May 23, 1921.

5,827.—*Title:* "290 EGGS IN ONE YEAR." (For Advertising Purposes for Poultry and Eggs.) OSCAR F. MATTHEWSON, Lincoln, Ill. Filed February 16, 1921.

5,828.—*Title:* "DON'T CUT THE CUTICLE." (For Advertising Purposes for Manicure Preparations.) NORTHAM WARREN CORPORATION, New York, N. Y. Filed April 14, 1921.

DECISIONS
OF THE
COMMISSIONER OF PATENTS
AND OF
UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

EX PARTE ENGMAN.

Decided October 29, 1921.

1. APPLICATION—OFFICE ACTION NOT RECEIVED—ABANDONMENT.

Where the application was filed April 10, 1919, a preliminary amendment filed June 10, 1919, and an Office action thereon mailed the attorney at his proper address on January 19, 1920, which action is alleged not to have been received by the attorney, and the attorney waited until July 2, 1921, before inquiring of the Office concerning the status of the application, and where the attorney states it to be his practice, after filing an application, to place the file away and not take it out for examination until an action has been had from the Office, *Held* that the application was abandoned for failure to prosecute.

2. SAME—TIMELY ACTION BY ATTORNEY.

Where the attorney's record shows an Office action to be due on an application and the work of the Office is in arrears, proper care of the client's interests demands that the attorney make inquiry of the Office as to the status of the application with reasonable promptness after the expiration of the period of time the Office work is known to be in arrears.

ON PETITION.

CANDLE-LATHES.

Mr. Howard P. Denison for the applicant.

ROBERTSON, *Commissioner:*

The record of this application shows that the same was filed April 10, 1919, that a preliminary amendment was filed June 10, 1919, and that the case was acted on by the Examiner on Jan. 19, 1920, the attorney's copy being mailed to the address given on the reverse side of the oath. No response followed until the filing of this petition August 2, 1921.

The affidavit of the attorney states that the files of the applications in his office are filed away and not taken out for examination until an action has been had from the Patent Office and that he made inquiry of the Patent Office concerning this case on July 2, 1921. The affidavit further states that no action was received at his office upon said application other than the customary filing receipt.

It appears from the above that the attorney, after receiving the filing receipt and making the preliminary amendment of June 10, 1919, placed the file away and waited over two years before making inquiry of the Patent Office as to why no action had been given. It cannot be considered that this long wait exhibits that measure of care of the client's interest which each and every attorney should give. This Office at no time has been over one year in arrearages of work, and where the attorney's record failed to show response by the Office within a year it appears that inquiry should be made with at least reasonable promptness after the expiration of said year.

The showing is held insufficient to establish that the delay in the prosecution was unavoidable, and the petition is denied.

DECISIONS OF THE U. S. COURTS.

U. S. Circuit Court of Appeals—Sixth Circuit.

SANDUSKY FOUNDRY & MACHINE CO. *v.* DE LAVAUD *et al.*

Decided July 23, 1921.

[274 Fed. Rep., 607.]

1. PATENTS—FACTS HELD SUFFICIENT TO SHOW THAT COMMERCIAL SUCCESS WHICH IS EVIDENCE OF INVENTION.

Somewhat vague and general proof of commercial success is sufficient, in the absence of dispute.

2. SAME—DEVICE MAY BE OPERATIVE, THOUGH NOT COMMERCIALLY SUCCESSFUL, UNTIL SLIGHTLY CHANGED.

A device which, in the precise form shown by the Patent Office drawings, requires partial disassembling after each operation is not thereby made so inoperative as to be unpatentable.

3. SAME—SLIDABILITY ADAPTED TO A NEW UTILITY MAY BE INVENTION.

When the addition of a particular slidability of a part brings about a new method of use, it may involve a patentable difference over the older device.

4. SAME—MANUFACTURE AND SALE OF DEVICE CAPABLE OF USE INFRINGING PATENT IS HELD INFRINGED.

Where defendants manufactured a device capable of an infringing use and sold it with the intent that it shall be so used, they infringe a patent, even though their device is capable of a non-infringing use, and even though they go through the form of instructing that it shall be used in a non-infringing way.

5. SAME—1,058,250, CLAIMS 1, 2, AND 4, FOR CASTING IRON PIPES, HELD INFRINGED.

The Millspaugh patent, No. 1,058,250, claims 1, 2, and 4, for the casting of iron pipes in a whirling mold, *Held* infringed by Kneass patent, No. 538,835.

6. SAME—1,047,972, CLAIM 1, FOR CASTING IRON PIPES, HELD INVALID.

The Millspaugh patent, No. 1,047,972, claim 1, for casting iron pipes, *Held* invalid, as not being an invention.

7. SAME—ACCOUNTING NOT ORDERED IN ALL CASES.

An accounting will not be ordered, if a preliminary inquiry shows no probability of substantial damages or profits.

APPEAL from the District Court of the United States for the Eastern Division of the Northern District of Ohio; D. C. Westenhaver, judge.

Suit by the Sandusky Foundry & Machine Company against D. Sensaud De Lavaud and others. From a judgment for defendants, plaintiff appeals. Reversed in part; affirmed in part.

See, also, 251 Fed. 631; 258 Fed., 640.

Mr. Livingston Gifford and *Mr. H. W. Marshall* (*Messrs Squire, Sanders & Dempsey* on the brief) for the appellant.

Mr. Frank J. Kent, (*Mr. Albert Lynn Lawrence* on the brief) for the appellees.

Before KNAPPEN, DENISON, and DONAHUE, Circuit Judges.

DENISON, *Cir. J.*:

The appellant (hereinafter called plaintiff) brought in the court below the usual infringement suit, based upon Patents No. 1,058,250, issued April 8, 1913, on an application filed in 1911, and No. 1,047,972, issued December 24, 1912, on an application filed in 1912; both granted to Millspaugh and both pertaining to centrifugal casting. As to No. 1,058,250, which we shall call the first patent, infringement is alleged of claims 1, 2, and 4. Under the second patent, claim 1 is the only claim involved. The district judge thought the first patent not infringed, and the second patent invalid.

Claim 1 of the first patent is sufficiently typical. It reads:

A hollow rotary member having an internal surface of definite shape surrounding the axis of rotation, a driving mechanism therefor, a filling trough, arranged to hold a predetermined amount of material, rotatably and slidably supported, projecting into said member, and means for moving said trough.

The common method of casting pipe was to provide a vertical mold for the outside and a core for the inside, and to pour the molten metal into the intermediate space. This process involved danger of imperfections, such as greater density at the bottom, imprisoned air bubbles, etc. It has long been known, at least in theory, that, if the molten metal were introduced into the center of a rapidly-revolving hollow cylinder, centrifugal force would distribute the material around the interior wall of the cylinder, which would serve as a mold, and the centrifugal impetus would supply the place of the core. This would give, in theory, a tube or pipe of great perfection, with walls of the same thickness or density in all parts, and with a very regular exterior surface, since impurities are commonly lighter than the metal to be cast, and would hence remain upon the inside of the tube. The record indicates that a product thus produced was commercially unknown, and that very likely the difficulty of introducing the molten material into the inside of the revolving cylinder at all parts of its length at the same time was the reason why the idea had not been commercially practised.

Millspaugh's first invention was directed to the meeting of this difficulty. After mounting his cylindrical shell or mold horisontally, so that it could be rotated by means in contact with the outside, he provided a trough located in the axis of the shell and capable of being held at each end in axial position. It was also adapted to slide longitudinally part way out of the shell and to be rotated at least half a turn independently of the shell. In operation, the shell was put in revolution and the trough withdrawn longitudinally so that it projected slightly from the shell at one end, the trough-opening being on the upper side, and both ends of the trough being closed. Thereupon the molten metal was poured into the trough at the projecting end, and distributed itself evenly along the trough, which was then caused to slide back into the shell until it was entirely inside and axially held in position. It was then turned upside down. This distributed the material in an even body over the interior of the shell and for the length of the trough.

[1] We cannot doubt that this device was commercially successful and became practically the foundation of a new art. Upon this subject plaintiff contented itself with rather vague and general testimony to the effect that large amounts had been expended in development; that the plaintiff was a manufacturer of paper-mill machinery; that tubes made according to this centrifugal process are used in such machinery and have been very largely adopted; that the plaintiff's ability to make this perfect pipe is chiefly what has developed plaintiff's business, and that several licenses have been granted. There was no cross-examination on this subject, nor was there testimony to dispute what was claimed in this regard. We think plaintiff was justified in assuming that there was sufficient proof of the commercial utility of the device to serve the customary purposes of such evidence.

[2] Neither can we think that there was anything inoperative about the machine as disclosed in the patent. The only serious criticism made along this line is that, if the machine were built and mounted precisely as shown in the Patent Office drawing, the tube, after casting, could not be removed from the mold without disturbing the assembly. That is true, because the standards which support the trough axis would be in the way of withdrawing the tube horisontally from the mold, excepting to the same distance which it is contemplated the trough may be withdrawn. It is a familiar rule that the Patent Office drawings are more or less conventional and are not to be considered as working drawings, and hence no defect is fatal which could be remedied by any mechanic by obvious means. The standards in this drawing are shown held to the floor by bolts and nuts. It would apparently take only a moment to remove these nuts and take the standard and the trough-shaft out of the way, and the placing and replacing of this standard would not be a serious matter in such a machine as this. It would also be plain that one or the other part could be mounted on a carriage so as to permit separation if desired. With this view of the unsubstantial character of the

defect, it is not important whether plaintiff's successful operation was with a machine of the precise form shown in the drawing or was with a machine embodying obvious modifications.

[3] It is necessary to refer to only one of the patents relied upon in defense, as that is the closest approximation to Millspaugh shown in the record. It is the patent to Kneass, No. 538,835, of May 7, 1895. It is sufficient to say that one figure of this patent, given as a suggestion of an alternate form, though awkward and probably impractical in some details, discloses Millspaugh's claimed construction with one exception.[1] Kneass has a trough which extends the full length of the shell and also projects endwise beyond. The metal is poured into the projecting open end, and it is Kneass's theory that it will flow along into the inside portion of the trough and be dumped wholly inside instead of partially outside. His device might or might not accomplish this result, but he did not contemplate or show a trough which was slidable in the Millspaugh sense. His drawings indicate that the trough-supporting standard is on a carriage intended for longitudinal travel, and this or its equivalent would be a necessary means for getting the trough out of the way when the casting was to be withdrawn; but there could have been no intention to withdraw the trough partially, or for filling, for he has so carefully provided for ability to fill without withdrawal. By Millspaugh's slidability—sliding out and sliding in—he insures that the trough can be filled from the outside, but that, before dumping, the metal-carrying portion shall be entirely inside. This has clear advantages, and we think it a patentable difference as compared with Kneass. It follows that, while the Millspaugh first patent is valid, it must be confined to such a slidable support for the trough as contemplates its partial withdrawal for filling and then its sliding return to effective dumping position wholly within the shell, and from this point of view, we must treat the question of infringement.

[4, 5] Defendants' device responds without question to the claims in suit in every particular, unless with regard to this characteristic sliding function. Defendants have a rotatable and slidable support for the trough, but this sliding is perhaps necessary, as it was with Kneass, to get the trough supports out of the way for withdrawing the casting. They mount a hopper upon their trough axis or continuation of the trough outside the shell, and provide a longitudinal conduit within the axis which will conduct the flowing metal from the hopper into the trough within the shell. There is thus in theory no occasion to slide the trough out for the purpose of filling just before dumping; and we conclude that the method of operation for which the defendants' device is thus apparently intended would not be an infringing use. But that is not the end of the question. Where defendants manufacture a device capable of an infringing use and sell it with the intent that it shall be so used, they infringe the patent, even though their device is capable of a non-infringing use, and even though they go through the form of instructing that it shall be used in a non-infringing way. (*Weed Co.* v. *Cleveland Co.*, (D. C.,) 196 Fed., 213; *Parsons Co.* v. *Asch*, (D. C.,) 196 Fed., 215.)

It seems natural that, if defendants' device is operated strictly according to their theory, some melted metal will remain in the hopper, and that when it is upset this metal will be spilled outside, and that the portion in the conduit may run back into the hopper, instead of inwardly into the trough, or that with slight use the conduit will become obstructed by the metal which cools and adheres, or that the hopper will become partially clogged in the same way. If those things occur, the device then could be used, and probably would be used, in the characteristic Millspaugh manner. It seems, therefore, that at least occasional use of this character must have been contemplated by the maker. This inference is confirmed by the fact that the axial spindle on the inner end of the trough is prolonged in a manner which was seemingly intended to facilitate this partial withdrawal while maintaining perfect axial position. The proof as to actual use also confirms this inference. There is no evidence as to the use of defendants' machine, excepting as to a more or less experimental use at the factory where it was manufactured for them. The witness who did this manufacturing and who was apparently disinterested is somewhat confused, but seems to intend to say that in the operation which he witnessed these suggested troubles did occur and that most of the work was done by sliding out the trough in the Millspaugh manner and filling it on the outside. We find also that an advertising "write-up" of defendants' machine—seemingly their authorized statement—distinctly describes withdrawal for filling as being the intended method of operation.

When we consider the advertisement and this testimony as to what was actually done, and observe the probability of a common necessity for resorting to Millspaugh's function, and that the defendants' form responds literally to the claim, we do not think that the charge of infringement can be escaped just because the device is capable of use in a manner which the patent cannot rightly reach. It may be that the situation presents complications which make an assessment of damages impracticable; but this record does not raise that question; an injunction, at least, is appropriate.

The case would be more difficult of decision were it not that the defendants can apparently, if they wish, so modify their device that it can not be used according to Millspaugh's theory. Doubtless there are expedients among which a satisfactory selection could be made, if the capacity of withdrawal for filling is, in truth, not important.

[6] As to the second patent, we agree with the court below that it does not involve any invention,

[1] The limiting clause, "arranged to hold a predetermined amount of material," does not effectively distinguish from Kneass, and while the quick dumping of the patent in suit, as contrasted with the slow tilting of Kneass, might distinguish, this feature of quick dumping is not found in the claims in suit.

so far as concerns the claim in suit. This is distinguished from the first patent only by providing that the trough-opening shall be shorter than the shell, when the trough is fully inserted. The stated object is to prevent the metal being spilled against the ends of the shell. If there was trouble from this cause, it seems clear to us that to shorten the trough-opening, either by making the trough shorter or by covering over the portion near the end, was a mere expedient not involving any invention.

[7] The decree as to the first patent must be reversed, and the case remanded, for the usual interlocutory decree for an injunction on the claims in suit. The court below will determine, upon such preliminary inquiry as seems fitting, whether the recovery of any substantial damages or profits is so improbable as to justify declining to make the usual order for an accounting. (*Merriner v. Saalfeld*, (C. C. A., 6,) 196 Fed. 369, 371, 372; 117 C. C. A., 245, and cases cited.) As to the second patent, the decree is affirmed. The appellant will recover costs of this court.

ADJUDICATED PATENTS.

(U. S. D. C. N. Y.) The Cline design patent, No. 49,204, for an insulator, *Held* valid. *Cline v. Horton*, 274 Fed. Rep., 728.

(U. S. D. C. N. Y.) The Cesnor patent, No. 992,965, for one-piece bifocal lens, *Held* valid and infringed. *One-Piece Bifocal Lens Co. v. Stead*, 274 Fed. Rep., 667.

(U. S. C. C. A. Ohio.) The Eckard and Smith patent, No. 1,117,816, for reversible truck, claims 6, 7, and 8, *Held* invalid, claim 9 held valid and not infringed. *Troy Wagon Works Co. v. Ohio Trailer Co.*, 274 Fed. Rep., 612.

(U. S. C. C. A. Me.) The Bibel patent, No. 845,222, for impregnement in Fourdrinier machines, *Held* invalid and not infringed. *Minnesota & Ontario Paper Co. v. Bibel Process Co.*, 274 Fed. Rep., 540.

(U. S. C. C. A. Ohio.) The Hudson patent, No. 1,214,087, for improvement in steering mechanism adapted to trailer-trucks, *Held* void for lack of invention. *Troy Wagon Works Co. v. Ohio Trailer Co.*, 274 Fed. Rep., 612.

(U. S. D. C. Pa.) The Charles F. Johnston patent, No. 1,063,935, for a spark-plug, *Held* void for lack of invention. *Holt Co. v. Stowe Co.*, 274 Fed. Rep., 662.

(U. S. D. C. N. Y.) The Knee patent, No. 1,231,882, for felt soles for gloves, *Held* valid and infringed. *Knee v. Kerwin*, 274 Fed. Rep., 720.

(U. S. D. C. N. Y.) The Meinecke & Co. patent, No. 926,468, for improvements in bed and douche pans, *Held* void for lack of invention. *Meinecke & Co. v. Lish Mfg. Co.*, 274 Fed. Rep., 747.

(U. S. C. C. A. Ohio.) The Millspaugh patent, No. 1,047,972, for casting iron pipes, claim 1 *Held* invalid. *Sandusky Foundry & Machine Co. v. De Lavaud*, 274 Fed. Rep., 607.

(U. S. C. C. A. Ohio.) The Millspaugh patent, No. 1,058,250, for casting iron pipes, claims 1, 2 and 4 *Held* infringed. *Sandusky Foundry & Machine Co. v. De Lavaud*, 274 Fed. Rep., 697.

Patents Nos. 1,296,003 to 1,296,720.

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Issue of November 8, 1921.

Patents	715—No. 1,296,003 to No. 1,296,720, inclusive.	
Designs	45—No. 59,979 to No. 60,023, inclusive.	
Trade-Marks	450—No 147,393 to No. 148,342, inclusive.	
Labels	27—No. 23,615 to No. 23,641, inclusive.	
Prints	2—No. 5,230 to No. 5,231, inclusive.	
Reissues	5—No. 15,219 to No. 15,223, inclusive.	
Total	1267	

Interference Notice.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., October 31, 1921.

Golden Laxative Coffee Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of Goode & Dunkle, 19 and 21 Pike street, Covington, Ky., and Charles I. Cook, 501 Main street, Menominee, Mich., for registrations of trade-marks and trade-mark registered March 8, 1886, No. 27,893, to Golden Laxative Coffee Co., Ayer, Mass., and a notice of such declaration sent by registered mail to said Golden Laxative Coffee Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Golden Laxative Coffee Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

Adverse Decisions in Interference.

PATENT No. 1,297,328.

On October 5, 1921, a decision was rendered that Marc Darrin was not the first inventor of the subject-matter covered by claim 11 of his Patent No. 1,297,328, subject, "Resin and process for manufacturing the same from crude solvent naphtha," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,309,300.

On October 5, 1921, a decision was rendered that Charles P. Klorer was not the first inventor of the subject-matter covered by claim 3 of his Patent No. 1,309,300, subject, "Joint for combined spotlight and trouble lamps," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,320,025.

On October 3, 1921, a decision was rendered that Theron R. Palmer was not the first inventor of the subject-matter covered by claims 1 of his Patent No. 1,320,025, subject, "Pedal-rubber for bicycle-pedals," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,346,329.

On October 4, 1921, a decision was rendered that Lewis F. Stafford was not the first inventor of the subject-matter covered by claims 1, 2, 6, 7, 8, 11, 12, 14, and 15 of his Patent No. 1,346,329, subject, "Bumper for vehicles," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,346,879.

On October 4, 1921, a decision was rendered that Ronald B. Jester was not the first inventor of the subject-matter covered by claims 1, 2, 4, 5, 6, and 7 of his Patent No. 1,346,879, subject, "Jack," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,355,010.

On October 7, 1921, a decision was rendered that Herman L. Strongson was not the first inventor of the subject-matter covered by claim 2 of his Patent No. 1,355,010, subject, "Pouring-spout," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,362,668.

On October 7, 1921, a decision was rendered that Robert Bobins was not the first inventor of the subject-matter covered by claims 8, 9, 10, 11, and 12 of his Patent No. 1,362,668, subject, "Buckles," and no appeal having been taken such decision has become final.

Notice—Photostat Copies.

Owing to difficulties encountered in obtaining the services of competent typists notice is hereby given that in order to avoid delays the Patent Office reserves the right to furnish photostat copies in lieu of type-written copies, in filling orders for copies of its records, unless otherwise specifically directed.

Drawings.

Attention is called to paragraphs *g* and *i* of Rule 52 of the Rules of Practice of the Patent Office, and inventors and attorneys are directed to omit from the space outside of the marginal line of the drawings any marks of identification, inasmuch as the space referred to is reserved for the use of the Patent Office. Such identifying-marks should be placed upon the back of the drawings.

Condition of Applications Under Examination at Close of Business October 29, 1921.

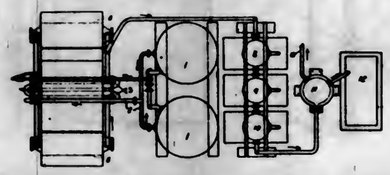
Room No.	Divisions, Examiners, and subjects of inventions (Oldest new case, Nov. 2; oldest amended, Dec. 24.)	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. S., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	June 1	May 14	783
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees Plants and Flowers.	Jan. 10	Mar. 12	1,707
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Feb. 1	Dec. 24	842
234	4. MERRITT, A. D., Conveyers; Conveyers, Fluid-Current; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Nov. 20	Apr. 20	1,682
167	5. MACNAB, I. F., Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Jan. 17	Feb. 16	938
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Feb. 11	June 17	943
312	7. JARBOE, C. O., Games and Toys; Optics; Photography; Velocipedes	Mar. 29	June 18	1,956
131	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	July 21	Aug. 25	663
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors: Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Nov. 24	June 27	1,068
235	10. MITCHELL, T. E., Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Apr. 16	Aug. 4	1,134
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	July 16	July 27	415
222	12. PIERCE, P. P., Machine Elements	Apr. 2	July 23	1,099
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Dec. 2	Sept. 2	1,098
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Jan. 8	Aug. 11	862
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Nov. 2	Feb. 16	1,772
111	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Nov. 24	Feb. 24	1,745
337	17. RAFTER, G. S., Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Mar. 3	June 17	1,067
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Jan. 10	Mar. 1	1,836
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Coo ing Vessels; Thermostats and Humidostats.	Dec. 18	Apr. 11	1,018
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Apr. 28	July 1	1,486
212	21. THURBER, W. L., Brakes and Clins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Mar. 17	June 10	664
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making.	June 2	Aug. 12	534
217	23. GROESBECK, W. D., Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Jan. 6	June 11	817
144	24. DARBY, J. J., Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Feb. 14	June 6	1,054
315	25. LIGHTFOOT, J. R., Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Aug. 11	Aug. 3	301
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Apr. 4	May 19	804
214	27. ANDERSON, L. S., Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Apr. 2	June 1	1,574
235	28. BENSON, A. R., Internal-Combustion Engines	Jan. 26	May 6	1,563
147	29. MORRIS, B., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Feb. 11	Aug. 1	771
152	30. SULLIVAN, M. R., Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines.	Mar. 21	Aug. 29	1,339
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Nov. 19	Jan. 15	1,933
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Jan. 3	July 28	989
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Apr. 11	May 23	723
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	Aug. 11	Aug. 29	313
57	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	Aug. 5	Aug. 20	662
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	May 15	May 3	1,533
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Feb. 26	Feb. 25	1,572
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	May 18	May 19	1,210
220	39. COWLES, A. W., Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Nov. 11	Feb. 1	1,978
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Jan. 10	Apr. 2	2,328
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	May 13	Apr. 7	858
114	42. CUTTING, H. G., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Dec. 7	Jan. 10	1,515
382	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Dec. 29	Feb. 7	1,586
253	44. SHAFFER, C. H., Air-Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration Ships.	Jan. 22	Sept. 14	491
379	45. GILES, A. H., Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Apr. 4	May 31	1,190
332	46. WOLCOTT, C. L., Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Mar. 28	May 6	1,190
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid Pressure Brake and Analogous Systems.	Feb. 18	June 1	1,149
163	48. ROEPKE, O. B., Electricity, Conductors; Electricity, General Applications	Jan. 26	Jan. 5	1,881
	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, JR.			
	Trade-Marks	Dec. 10	Aug. 1	3,755
	Designs	Feb. 14	Mar. 17	2,203
	Labels and Prints	Oct. 14	Oct. 22	254

Total number of applications awaiting action, excluding Trade-Mark Division, 57,236; Trade-Mark division 6,372.

PATENTS

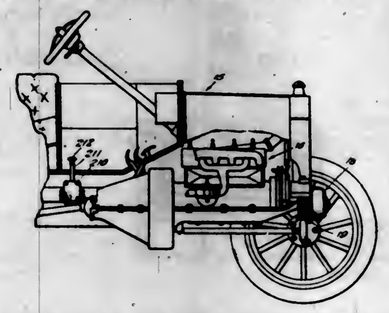
GRANTED NOVEMBER 8, 1921.

1,396,003. PROCESS OF TREATING COAL-TAR AND THE LIKE. WILLIAM ANDERSON, Helensburgh, Scotland. Filed Apr. 7, 1920. Serial No. 371,890. 1 Claim. (Cl. 196—25.)



The process of treating coal tar consisting in effecting vaporization of the tar by injecting the tar into and through a tubular heater by means of steam in excess of that required to supply the heat necessary to effect complete vaporization of the tar while controlling the temperature of the steam, so that the interaction of steam and vapor is effected at a temperature between approximately 450° and 600° C., depositing the carbon formed so as to effect practically complete separation of carbon, and condensing the vapors to obtain a resinous solid and a liquid product entirely free from naphthalene.

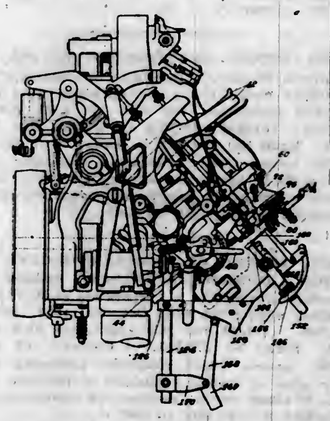
1,396,004. STARTING AND LIGHTING APPARATUS. VINCENT G. APPLE, Dayton, Ohio. Filed Apr. 23, 1917. Serial No. 163,803. 10 Claims. (Cl. 180—64.)



1. In combination with an automobile chassis having an engine and an engine shaft, of a dynamo electric machine having its shaft coaxially arranged with the engine shaft and having its frame connected to and supported on the chassis by lugs extending from the back of the dynamo frame and a flexible driving coupling inseparably connecting the two shafts to permit initial rotation of the driving shaft before the driven shaft is rotated.

1,396,005. PULLING-OVER MACHINE. ORRELL ASHTON, deceased, Swampscott, Mass., by Hannah Ashton, executrix, Wollaston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 2, 1916. Serial No. 129,214. 164 Claims. (Cl. 12—4.)

1. A machine of the class described having, in combination, side grippers movable to pull an upper over a last and movable also lengthwise of the last, and means automatically operative to present said grippers normally in



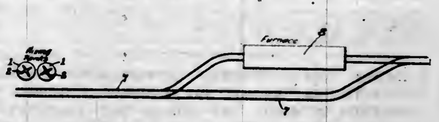
an upper receiving position relatively near the toe end of the last and to move them toward the heel end of the last after the upper pulling operation.

1,396,006. METHOD OF TREATING DISTILLERY WASTE. ARTHUR A. BACKHAUS and CARL HANER, Jr., Baltimore, Md., assignors to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Oct. 22, 1917, Serial No. 197,885. Renewed July 19, 1919. Serial No. 312,030. 3 Claims. (Cl. 23—24.)



1. The process of treating distillery slop comprising concentrating it, adding caustic soda, heating at a temperature from 175 to 250° C., adding lime to form calcium oxalate, filtering, evaporating the filtrate to dryness, and distilling with sulfuric acid to recover volatile acids.

1,396,007. PROCESS OF TREATING DISTILLERY WASTE. ARTHUR A. BACKHAUS, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Oct. 22, 1917. Serial No. 197,884. 5 Claims. (Cl. 23—24.)



1. The process of treating distillery waste comprising heating with caustic alkali at a temperature of about 175 to 250 degrees C. for a few hours, dissolving the

product in water and precipitating the oxalates as calcium oxalate, filtering off the latter, separating the alkali from the filtrate, distilling the remainder with a non-volatile acid to recover the organic acids.

1,396,008. PROCESS OF PRODUCING ORGANIC ACIDS. ARTHUR A. BACKHAUS, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Oct. 22, 1917. Serial No. 197,886. 1 Claim. (Cl. 23—24.)

The process which comprises producing salts of organic acids by heating a mixture of distillery slop and a caustic alkali in the presence of ferric oxid, at a temperature of from 160° to 250° C.

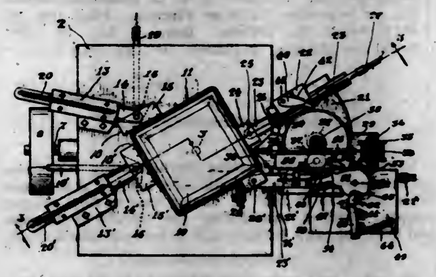
1,396,009. METHOD OF PRODUCING ORGANIC ACIDS. ARTHUR A. BACKHAUS, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Original application filed Oct. 22, 1917, Serial No. 197,886. Divided and this application filed Jan. 29, 1919. Serial No. 273,780. 4 Claims. (Cl. 23—24.)

1. The process which comprises producing salts of organic acids by heating a mixture of distillery slop and a caustic alkali in the presence of manganese dioxid, at a temperature of from 160° to 250° C.

1,396,010. METHOD OF PRODUCING ORGANIC ACIDS. ARTHUR A. BACKHAUS, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Original application filed Oct. 22, 1917, Serial No. 197,886. Divided and this application filed Jan. 29, 1919. Serial No. 273,781. 4 Claims. (Cl. 23—24.)

1. The process which comprises producing salts of organic acids by heating a mixture of distillery slop and a caustic alkali in the presence of cerium oxid, at a temperature of from 160° to 250° C.

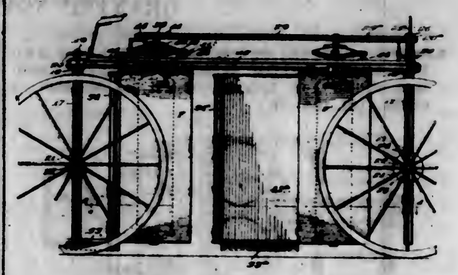
1,396,011. CAN-SOLDERING MACHINE. ANTONIO ALVAREZ, Berkeley, Calif., assignor to American Can Company, San Francisco, Calif., a Corporation of New Jersey. Filed Dec. 28, 1916. Serial No. 139,240. 34 Claims. (Cl. 113—71.)



1. In a can soldering machine, means for receiving and holding a can having a seam to be soldered, means for fusing solder upon said seam, devices for automatically feeding a definite predetermined amount of solder thereto, and means corresponding with the shape of the can for actuating said feeding devices.

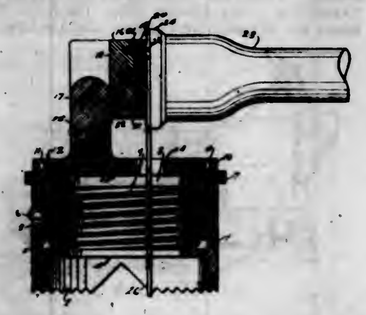
1,396,012. COTTON-PICKING APPARATUS. ALLEYNE D. ALVIN, San Antonio, Tex., assignor of one-half to Frederick M. Mueller, San Antonio, Tex. Filed July 9, 1920. Serial No. 395,091. 7 Claims. (Cl. 56—48.)

1. A cotton picking apparatus comprising, wheels, a chassis supported by said wheels and vertically adjustable thereon, frames supported for swinging movement on the chassis, said frames being arranged one in advance of the other and having alined slots formed therein, picking rollers journaled in said frames and extending into said slots, cleaning rollers journaled in said frames and associated with said picking rollers for effecting a removal of the cotton therefrom, guard plates partially surrounding



all of said rollers, guide fingers arranged in advance of said frames for guiding the plants into said slots, guide plates above said guide fingers and in advance of said picking rollers, pneumatic conveying means associated with said cleaning rollers, and means operable by said wheels for actuating all of said rollers and said conveying means.

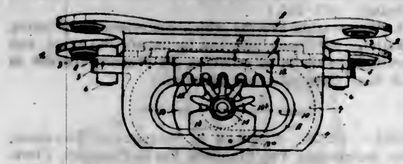
1,396,013. WIRE-TWISTING DEVICE. HENNING ANDERSON, Chicago, Ill. Filed June 26, 1920. Serial No. 391,917. 4 Claims. (Cl. 140—119.)



1. In a wire twister, a shell body, a jacket slidably secured to said shell body, means for yieldingly urging said shell and jacket out of mutual engagement, means for limiting the relative movement of said shell body and jacket, a rotary cap carried by said jacket, a stem for said cap, and adjustable wire-engaging members carried by said stem.

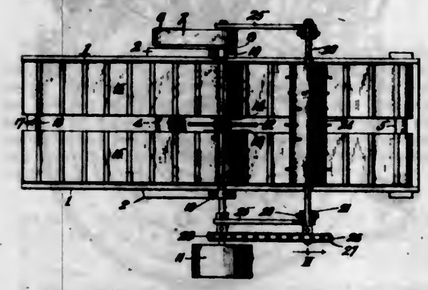
1,396,014. ROLLER SIDE BEARING. FRANKLIN L. BARBER, Chicago, Ill., assignor to Standard Car Truck Company, Chicago, Ill., a Corporation of New Jersey. Filed Nov. 22, 1920. Serial No. 425,600. 4 Claims. (Cl. 64—64.)

1. A side bearing adapted to be carried by the body bolster of a car having in combination means adapted to engage said bolster and to be secured thereto, a housing depending from said means, a bearing roller disposed in said housing and carrying an axle member projecting at either side of said housing, counterweight members mounted on said axle members on each side of the housing, and means on said housing above said axle member for engaging



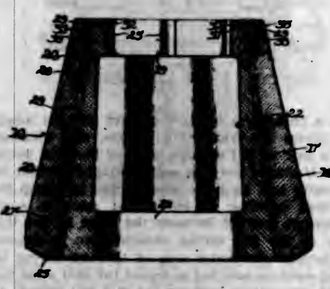
said counterweight member whereby when the roller is moved longitudinally the counterweight will be swung out of its normal position.

1,396,015. SELF-FEEDER FOR HUSKERS, SHREDDERS, AND CUTTERS. AUGUST BERKEMEYER, Bladen, Nebr. Filed Aug. 14, 1919. Serial No. 317,460. 1 Claim. (Cl. 130—38.)



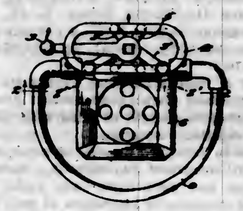
A feeder comprising a framework having sides and a bottom extending from one end to a point intermediate the length of the sides, a driven conveyer running over and under the bottom lengthwise thereof, a driven toothed drum extending across the framework between the sides over the conveyer and adapted for up and down play, a pair of kickers over the bottomless part of the framework and the rear end of the conveyer, a rotary band cutter and divider between the front end of the kickers and means for operating the kickers and divider to cooperate with the drum and conveyer in advancing bundles of grain through the machine toward the bottomless end thereof.

1,396,016. ROCK-CRUSHER. JAMES F. BETCHKAW, Berlin, Wis., assignor to The Frog Switch & Manufacturing Company, Carlisle, Pa., a Corporation of Pennsylvania. Filed May 22, 1919. Serial No. 298,990. 5 Claims. (Cl. 83—10.)



1. In combination, a central member of conical formation, a conical mantle engaging over said central member, said conical mantle being adapted to be withdrawn endwise off the end of said central member, a locking surface on said central member disposed at an angle to the line of separation of said mantle and said central member, a cooperating locking surface on said conical mantle also disposed at an angle to the line of separation of said mantle and said central member, a locking filler between said central member and said mantle and engaging with both of said surfaces, said surfaces being arranged whereby the engagement of the filler therewith positively locks the conical mantle against endwise withdrawal, one of said surfaces being accessibly disposed to permit the releasing of said locking filler therefrom.

1,396,017. SAFETY DEVICE. FRANK J. BOHN, Baltimore, Md. Filed Mar. 28, 1921. Serial No. 456,149. 5 Claims. (Cl. 105—341.)



2. An attachment for trolley cars comprising a substantially semi-circular guard or railing, the ends of said railing being offset, a split sleeve carried by each of said offset ends, and means for securing said sleeve to a support.

1,396,018. PRODUCTION OF CARBON. CHARLES S. BRADLEY, New York, N. Y. Filed Aug. 30, 1917. Serial No. 188,947. 5 Claims. (Cl. 134—60.)

1. The method of producing carbon, which comprises treating a carbon compound with substances which react endothermically and exothermically to set free the carbon and regulating the ratio of endothermically acting to exothermically acting substances to maintain the temperature within the proper range, while at the same time maintaining a gaseous carbon compound present to restrain oxidation of the freed carbon.

1,396,019. CLASP. SAMUEL BUCHSBAUM, Chicago, Ill. Filed Dec. 1, 1919. Serial No. 341,718. 4 Claims. (Cl. 24—170.)



1. In a clamping device the combination of a base plate, a pair of suitably mounted oppositely extending similar clamping elements, each of said clamping elements having a gripping edge and a clamping lever, the lever of one clamping element extending toward and overlapping the lever of the other clamping element, said overlapping levers extending substantially parallel to each other and one of said levers clamping the other lever between the same and said base plate to hold said second lever in clamping position.

1,396,020. BELT-BUCKLE. SAMUEL BUCHBAUM, Chicago, Ill. Filed Oct. 14, 1920. Serial No. 416,932. 3 Claims. (Cl. 24—101.)



3. In a device of the character described, a gripping element comprising side members, and a single serrated gripping member connecting said side members, each of said side members being provided with pivot openings at opposite sides of said gripping member.

1,396,021. WATERPROOF FIBER TUBE AND PROCESS OF MAKING THE SAME. FOSTER A. BURNINGHAM, GEORGE A. RICHTER, WALLACE B. VAN ARSDEL, and DONALD H. WHITE, Berlin, N. H., assignors to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Jan. 20, 1920. Serial No. 352,874. 7 Claims. (Cl. 91—70.)

1. A body of fibrous material having its fibers coated with a polymerized phenol-condensation product, and its pores or interstices plugged or filled with minute crystals of a water-repellent material.

7. The herein described process of water-proofing paper tubes, which comprises impregnating such tubes with molten sulfur and permitting such sulfur to cool and crystallise in the pores or interstices of such tubes, and impregnating the tubes with a solution of a phenol-condensation product, drying the tubes to evaporate the solvent, and baking such tubes to polymerise the phenol-condensation product remaining in the tubes.

1,396,022. CHUCK. DONALD EMBRY CARRIERE, Capreol, Ontario, Canada. Filed Sept. 27, 1920. Serial No. 413,065. 8 Claims. (Cl. 279—60.)



1. In a chuck, the combination with the movable jaws, of extensible jaw members carried by said jaws and adapted to support the tool gripped between the said movable jaws at a point beyond their length.

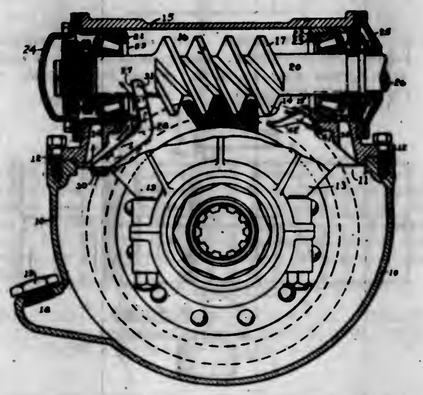
1,396,023. MATERIAL OR THE PROCESS OF PRODUCING MATERIALS FOR COATING SUBSTANCES TO PROTECT THEM OR RENDER THEM NON-POROUS. CHARLES ANGUS CLEGHORN, Woburn Sands, England. Filed Dec. 30, 1919. Serial No. 348,473. 17 Claims. (Cl. 134—26.)

2. A process of treating "Turkish birdlime" to bring it into working condition which consists in drying the birdlime in a vacuum at a temperature not exceeding 180° F. and then pulverising it.

1,396,024. REFRIGERATION PROCESS. ALBERT G. CRAWFORD, Chicago, Ill., assignor to Halleck W. Seaman, Clinton, Iowa. Filed May 27, 1918. Serial No. 236,870. 2 Claims. (Cl. 252.)

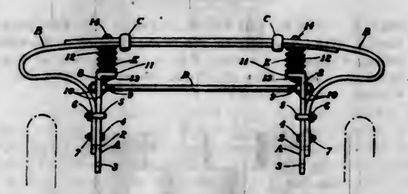
1. A refrigerating process which comprises compressing substantially pure propylene gas to liquefy the same, and evaporating the liquid by relieving the pressure thereon to extract heat from adjacent material.

1,396,025. AXLE. CHARLES S. DAHLQUIST, Cleveland, Ohio, assignor to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 2, 1920. Serial No. 414,306. 9 Claims. (Cl. 184—11.)



1. In mechanism of the class described, the combination of a housing, a gear therein, a shaft above said gear, a bearing for said shaft, and a plate extending into proximity with said gear for deflecting oil from said gear to the bearing.

1,396,026. AUTOMOBILE-BUMPER. ERNEST G. DAVISON, Elyria, Ohio, assignor of one-half to Joseph H. Brown, Elyria, Ohio. Filed Sept. 20, 1920. Serial No. 411,637. 4 Claims. (Cl. 293—55.)



2. In a bumper, a bumper contact element adapted to extend across the front of a vehicle, said element comprising a pair of flat springs, each of the said flat-springs having a U-shaped portion, said U-shaped portion containing an outer and an inner arm, means to clamp the said flat springs together in superposed relation, a pair of coiled springs secured between the arms of the U-shaped portions of the flat spring elements, an interconnecting tie-rod between the outer arm of the two spring element U-shaped portions adapted to secure the said arms together, and rigid connections between the said coil springs and the said arms, and means to secure the assembled bumper to a vehicle, said means including said rigid connections.

1,396,027. DISPLAY-STAND. GEORGE W. DAY, Glenellyn, Ill. Filed Mar. 31, 1921. Serial No. 457,323. 2 Claims. (Cl. 211—24.)

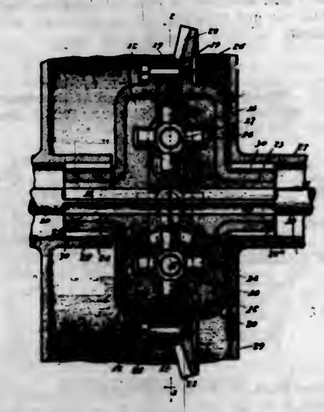


1. A display card provided with a four sided opening adapted to receive a package to be displayed, said opening having straight downwardly converging lateral margins, the greatest width of the opening being less than the diameter of the package, a base for the card whereon the container may rest, and means carried by the card adapted to prevent the upper portion of the package from slipping rearwardly out of said opening.

1,396,028. PROCESS OF RECOVERING THE SOLIDS OF WASTE PULP LIQUORS. WALTER H. DICKERSON, New York, N. Y. Filed Dec. 8, 1919. Serial No. 343,235. 7 Claims. (Cl. 195—6.)

1. The process of recovering the solids of hot waste pulp-liquors, which consists in effecting a self-evaporation of the digester liquor to thereby concentrate and cool same; freezing out a portion of the remaining water to further concentrate the liquor; and drying the liquor thus concentrated.

1,396,029. GEARING. WILLIAM F. DOYLE, Reedsburg, Wis., assignor of one-half to Florence P. Stolte, Reedsburg, Wis. Filed June 12, 1916. Serial No. 103,099. 30 Claims. (Cl. 74—99.)



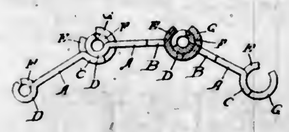
1. A gear having a helical thread the core of which helix is circular and has its center in the axis of said gear, the cross section of said thread increasing with its distance from the axis of the gear.

1,396,030. VARIABLE CONDENSER. WILLIAM DUBILIER, New York, N. Y. Filed July 25, 1917, Serial No. 182,796. Renewed Feb. 2, 1921. Serial No. 441,992. 11 Claims. (Cl. 250—41.)



1. In combination, a series of fixed condenser units having a common difference in capacity, a variable condenser having a maximum capacity substantially equal to said common difference, and means for inserting in circuit with any of said units any desired fraction of the capacity of said variable condenser, said variable condenser being of small capacity relative to the range of the whole condenser, and including but few relatively movable parts, whereby errors due to changes in the variable condenser are minimized.

1,396,031. LINK FOR CHAIN-BELTS. RAYMOND W. DULL, La Grange, Ill., assignor to Link Belt Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 22, 1920. Serial No. 367,655. 8 Claims. (Cl. 74—43.)



1. An integral single thickness sheet metal chain link comprising two side and two end bars and two substantially tubular ends, the pintle end having an external diameter approximately the same as the internal diameter of the hook end, both ends projecting above and below the body and consisting, the pintle end of one end bar and two side bars projecting beyond the end bar and a part which projects from the inner edge of the side bar bent out of line with the link body and toward each other so as to have their opposed ends on the same side of the link body.

1,396,032. PROTECTING SPARKING METAL. HENRY FORCELLON, New York, N. Y., assignor to Alpha Products Company, Inc., a Corporation of New York. Filed Mar. 27, 1919. Serial No. 285,664. 7 Claims. (Cl. 91—70.)

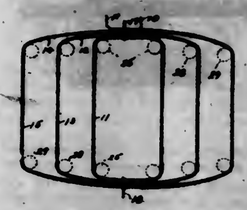
1. The new article of manufacture comprising a sparking alloy having a dense non-metallic protecting coating on its surface, said coating not substantially affecting the sparking properties of said surface.

6. The method of protecting pieces of sparking alloy which consists in treating the pieces with a mineral oil and heat to produce a protecting coating thereon.

1,396,033. METHOD OF MAKING WINDINGS. CHARLES W. FRANCIS, Paterson, N. J., assignor to Gillespie Eden Corporation, Paterson, N. J., a Corporation of Delaware. Original application filed Feb. 3, 1920, Serial No. 356,027. Divided and this application filed Nov. 19, 1920. Serial No. 425,052. 5 Claims. (Cl. 140—92.2.)

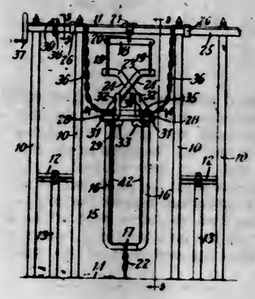
1. The method of forming from a continuous piece of wire, a winding having a plurality of separate flat coils of progressively increasing area, which consists in winding a coil by a continuous relative motion between the source of

wire supply and a form; surrounding the coil thus formed, while the said relative motion between it and the supply of wire continues, with a larger form, between which and said source of wire supply the said relative motion exists; continuing the winding from the coil just formed to and



around the larger form by means of said continuing relative motion and repeating these steps with successively larger forms while maintaining the relative motion between the source of wire supply and the coils and their forms until the desired number of coils is formed.

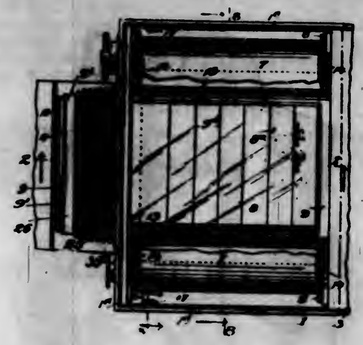
1,396,034. CATTLE-STANCHION. AXEL FAITZ, Everett, Mass. Filed Sept. 11, 1919. Serial No. 323,048. 13 Claims. (Cl. 119—148.)



1. A cattle stanchion having, in combination, a pair of side bars having converging upper ends, means to suspend said side bars, means to lock said side bars in their closed position, a rotary member, and means operatively connecting said locking means with said rotary member adapted to raise said locking means vertically upon the converging ends of said side bars during the rotation of said rotary member and thereby force said side bars open.

1,396,035. METHOD OF AND APPARATUS FOR DESIGNATING PHOTOGRAPHIC EXPOSURES. HENRY J. GAISMAN, New York, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Sept. 12, 1921. Serial No. 719,921. 61 Claims. (Cl. 95—1.1.)

1. The combination with a camera having an opening, means upon the camera to normally close said opening, and an expansible pocket upon and without the camera and communicating with said opening, of a holder adapted to pass through said opening and pocket, a transtucid member fitted to said holder supported adjacent the film and adapt-



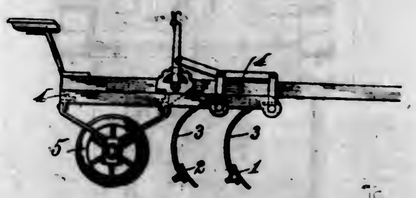
ed to receive markings to be light printed on the film, and means to admit light at will through said member.

1,396,036. EXTENSION-TABLE SLIDE. SAMUEL GALBERIN, Milwaukee, Wis. Filed May 26, 1919. Serial No. 299,932. 4 Claims. (Cl. 45—115.)



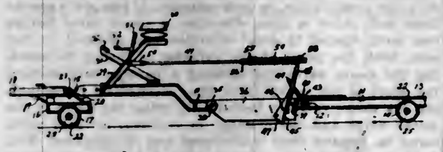
1. In an extension table the combination of a relatively fixed middle bar, floating end bars and floating intermediate bars slidably connected with one another side by side, two oppositely facing longitudinal racks fixed on the middle bar and extending in opposite directions from the central portion thereof, longitudinal racks mounted on the intermediate and end bars, a gear mounted on the middle bar and meshing on opposite sides with racks on intermediate bars, and a gear mounted on each intermediate bar next to the middle bar and meshing on opposite sides with racks on the middle bar and the next outer bar.

1,396,037. METHOD OF SOIL-TILLAGE. STEPHEN H. GARST, Moline, Ill. Filed Nov. 22, 1920. Serial No. 425,680. 5 Claims. (Cl. 55—77.)



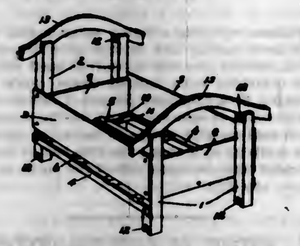
1. The method of tilling soil which consists in forming in the surface of the soil a series of relatively narrow furrows which are separated one from the other by ridges of soil projecting above the original level of the surface of the soil, and in packing the sides of said ridges to enable them to withstand the action of the elements.

1,396,038. SCRAPER AND LEVELER. GEORGE A. GHERST, Buhl, Idaho. Filed Apr. 17, 1920. Serial No. 374,647. 7 Claims. (Cl. 37—8.)



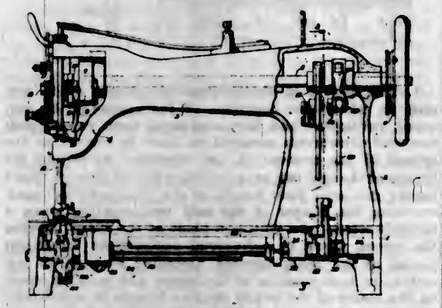
1. An earth working machine of the character described including a frame, rotatable members supporting the frame from the ground, blade supports pivoted to the frame on each side thereof for vertical movement, a blade carried by said blade supports and vertically movable therewith, means for rocking the blade supports to thereby raise or lower the blade, the blade being pivotally connected to the blade supports for independent oscillation on its own axis, and means whereby the angle of the blade may be adjusted.

1,396,039. TOY CRADLE-BED WAGON. KARL HALM, Los Angeles, Calif. Filed May 27, 1920. Serial No. 384,690. 4 Claims. (Cl. 46—35.)



1. A toy comprising a knock-down frame consisting of side members; end members removably connected to said side members; and a removable base comprising a bar extending lengthwise of said frame and removably resting upon said end members and cross bars pivoted to said bar and supported by said side members so that turning of said cross bars upon their pivots will disengage the same from said side members.

1,396,040. LOOP-TAKER-ACTUATING MECHANISM FOR SEWING-MACHINES. PARK A. HESS, Hillside, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Sept. 20, 1919. Serial No. 327,377. 10 Claims. (Cl. 112—182.)



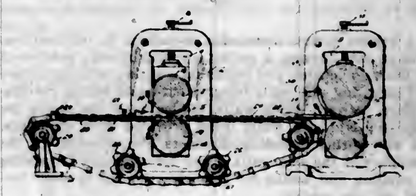
1. In a sewing machine, the combination with an overhanging arm, a driving shaft supported thereby, a crank carried by said shaft, an oscillating shaft, a stitch-forming mechanism comprising a needle and a loop-taper adapted to take a loop of thread from the needle and distend the loop, of means connected with the said oscillating shaft for actuating said loop-taker whereby the movement thereof is retarded at a predetermined time to permit the needle to rise above the work before substantial distension of the loop begins, said means including a two-part pitman composed of pivotally connected sections of which one is connected to the crank on the main-shaft and the other to a motion converting mechanism linked to an arm carried by said oscillating shaft.

1,396,041. COLLAR-LINK. ROBERT W. JOHNSON, Chicago, Ill. Filed Feb. 4, 1921. Serial No. 442,462. 1 Claim. (Cl. 24—87.)



A device of the character described, comprising a pair of hooks having shanks which are provided at their inner ends with interlocking eyes which loosely link the shanks together, the bills of the hooks being at the outer ends of the shanks and extending rearwardly therefrom.

1,396,042. METHOD AND MACHINE FOR PRODUCING METALLIC WEDGES. PHILIP W. JONES, Newark, Ohio. Filed June 1, 1920. Serial No. 385,406. 5 Claims. (Cl. 80—26.)



5. In a machine for producing metallic wedge members, a pair of relatively vertically arranged horizontally journaled thickening rolls, said rolls being provided with registering annular peripheral grooves, a pair of forming rolls spaced longitudinally from the thickening rolls and journaled for horizontal rotation, a guide arranged in advance of the thickening rolls, an endless conveyer coöperative with said guide and capable of passing between said thickening rolls, said conveyer serving to feed substantially trapeziform stock pieces arranged on edge within said guide and between said thickening rolls and into the grooves thereof, a guide situated between said thickening and forming rolls and capable of receiving the stock pieces discharged from said thickening rolls, said grooves serving to produce rounded edges upon said stock pieces to permit the same to lie on the sides thereof while passing along said last named guide, said conveyer serving to force the pieces longitudinally of said latter guide, and at least one of said forming rolls being provided with a wedge forming recess capable of receiving said stock pieces discharged from the latter guide and capable thereby of causing said pieces to assume substantially the shape and configuration of said recess.

1,396,043. RAIL CONNECTION. NICKLOS S. KEMP and HENRY J. KAUTH, Washburn, Iowa. Filed May 2, 1921. Serial No. 466,116. 3 Claims. (Cl. 238—243.)

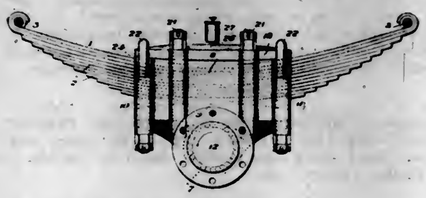
1. In a rail connection, the combination with meeting rails, of angle-plates overlying the webs and flanges of

the rails across the rail-joint, the webs of the rails having lugs, the angle-plates having elongated longitudinally-directed sockets longer than the diameter of and receiving, said lugs, clamps for holding said angle-plates upon



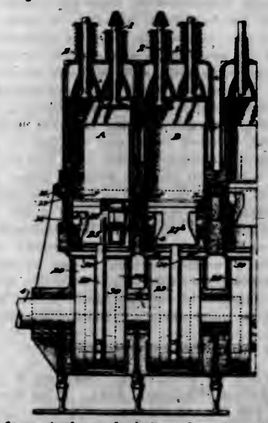
said rails, the feet of the angle-plates and the underlying parts of the rail flanges having registering slots, and wedges secured adjustingly in said slots and bearing against the abutting faces of said clamps.

1,396,044. VEHICLE-SPRING SUSPENSION. WILLIAM BELL LOWE, New York, N. Y. Filed Nov. 16, 1918. Serial No. 262,842. 1 Claim. (Cl. 267—52.)



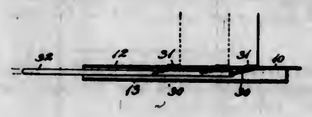
A vehicle spring suspension including, in combination, with an axle housing, a spring, a spring housing positioned on the axle housing and including a spring bearing-surface and including side walls integral with said spring bearing-surface, between which walls, the leaves of the spring are disposed, said side walls being provided with shoulders, the said spring including shoulders complemental to the shoulders in the side walls, a cap for retaining the spring in position and means for retaining the cap in close contact on the spring.

1,396,045. INTERNAL-COMBUSTION ENGINE. GRENVILLE MELLEN, Cranford, N. J. Filed Sept. 11, 1918. Serial No. 253,630. 6 Claims. (Cl. 123—60.)



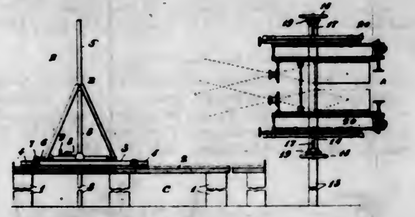
1. In a four stroke-cycle internal combustion engine of the crank-case compression type including a compression space in open communication with the end of both cylinders, a crank-shaft in the compression space, pistons connected to the crank-shaft in the same angular relation, inlet and exhaust valves in the upper portion of the cylinders, the combination, in each cylinder, of two ports spaced from each other in axial direction, a sleeve valve having two ports spaced in axial direction and adapted to register with the ports of the cylinder, a casing surrounding the sleeve valve and defining a passage intermediate the ports of the sleeve valve, gear mechanism for actuating the sleeve valve to periodically bring the ports in the sleeve valve and the cylinder in registry, all said parts being so related that compressed gas is admitted from the compression space into the cylinder when the piston is near the end of the suction stroke.

1,396,046. TOY THEATER. EDWARD S. MOORE, Brooklyn, N. Y. Filed Feb. 1, 1919. Serial No. 274,576. 1 Claim. (Cl. 46—49.)



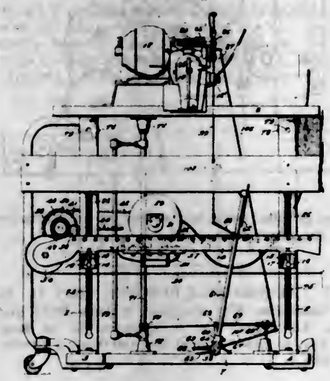
A toy theater including a hollow stage having an opening in its back portion and formed of relatively superposed walls, objects movably supported upon one of said walls and provided with flanged bases, stock metallic clasps engaged with said base flanges, a handle shiftable between the walls of said stage and having a magnet coacting with said metallic clasps to move the objects over one of the walls of said stage, the free end of the handle being extended from the open side of the stage, as and for the purpose specified.

1,396,047. METHOD OF PHOTOGRAMMETRIC SURVEY AND APPARATUS THEREFOR. UMBERTO NISTRI, Rome, Italy. Filed Sept. 22, 1920. Serial No. 412,025. 4 Claims. (Cl. 88—24.)



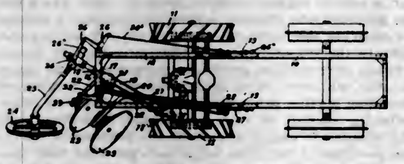
1. The method of photogrammetric survey which consists in taking two negatives of the ground to be surveyed, developing and then arranging them in the position and orientation occupied by them in respect to the ground at the moment of the exposure; projecting the images of the said two negatives thus placed through lenses having the same focal length as the photographic lenses, receiving the images of the said two negatives upon a movable screen representing a plane of the space; moving the screen so as to correspond successively to several planes of the space selected according to a given law seeking in each position of the screen and marking thereon the places of the points the two images of which coincide, the said points being for each position of the screen the image on same of the line along which the corresponding plane of the space intersects the ground.

1,396,048. FILLED-SACK-SEWING APPARATUS. FREELAND W. OSTROM, Newark, and IRVING F. WEBB, Elizabeth, N. J., assignors to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Feb. 8, 1918. Serial No. 215,997. 14 Claims. (Cl. 112—11.)



1. In a filled sack sewing apparatus, in combination, sack-conveying mechanism, manually operated means for controlling the operation of said sack-conveying mechanism, stitch-forming mechanism, work-controlled means whereby said stitch-forming mechanism is automatically brought into and normally maintained in operation for a definite period during the operation of said sack-conveying mechanism, and an emergency mechanism adapted to be brought into action to arrest and restore the operation of said stitch-forming mechanism during the normal operation-period of the latter.

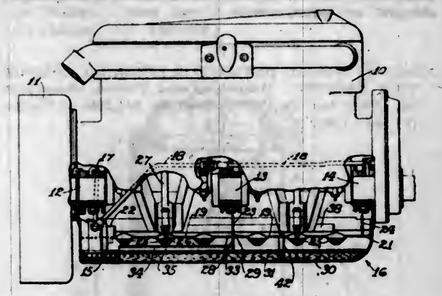
1,396,049. TRACTOR-PLOW. CHARLES OWENS, Chattanooga, Tenn. Original application filed Oct. 27, 1919, Serial No. 333,512. Divided and this application filed June 5, 1920. Serial No. 386,737. 4 Claims. (Cl. 97—30.)



1. In combination in a plow, a frame, a plow body, a furrow wheel in rear of the plow body to run in the furrow being formed, a spring for forcing said furrow wheel to its work downwardly and laterally of the furrow independently of the plow body, and means for applying tension to the said spring, said means consisting or a lever and a bell crank for stretching the spring in initially forcing the furrow wheel down, substantially as described.

1,396,050. OIL-BASIN. HERMAN D. PALMER, Hartford, Wis., assignor to Kissel Motor Car Company, Hartford, Wis., a Corporation of Wisconsin. Filed May 14, 1919. Serial No. 297,036. 41 Claims. (Cl. 184—6.)

21. An oil basin having a bottom, a diaphragm spaced from said bottom, and forming a pocket open at one end only, a splash pan above said diaphragm, a transverse partition extending upwardly from the approximate center of said diaphragm through and above said splash pan, a central passage-way overlying said diaphragm and extending from said vertical partition longitudinally, means in the portion of said splash pan located above said passage-way for the overflow of oil adjacent the center of said partition, and means laterally spaced adjacent each

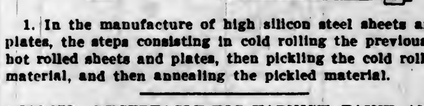


end of said partition for the overflow of oil from the other portion of said splash pan.

1,396,051. PROCESS OF COATING STEEL SHEETS WITH TIN. SAMUEL PEACOCK, Wheeling, W. Va., assignor, by mesne assignments, to Wheeling Steel & Iron Company, Wheeling, W. Va., a Corporation of West Virginia. Filed Nov. 9, 1920. Serial No. 422,813. 5 Claims. (Cl. 91—70.2.)

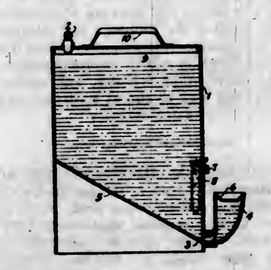
1. The process of forming a coherent coating of tin on thin steel sheets which consists in preparing a solution of stannous chlorid mixed with an alum having an alkaline reaction adapted to restrain the ionic concentration of said stannous chlorid; immersing said sheets in a clean condition in said solution; and subjecting the latter to a steam pressure exceeding two atmospheres, substantially as described.

1,396,052. METHOD OF MAKING HIGH-SILICON SHEETS AND PLATES. ANDREW PINKERTON, Ben Avon, Pa., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Oct. 20, 1920. Serial No. 418,180. 3 Claims. (Cl. 148—4.)



1. In the manufacture of high silicon steel sheets and plates, the steps consisting in cold rolling the previously hot rolled sheets and plates, then pickling the cold rolled material, and then annealing the pickled material.

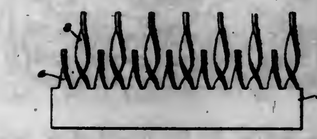
1,396,053. RECEPTACLE FOR VARNISH, PAINT, AND THE LIKE. FRANK WHEELER PLANE, London, England. Filed Jan. 27, 1919. Serial No. 273,217. 5 Claims. (Cl. 91—66.)



1. A receptacle for varnish, paint, and the like, comprising a storage receptacle having an exit and an inclined

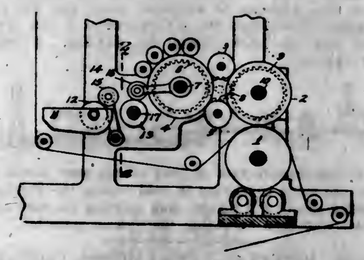
bottom leading to said exit, a brush both detachably connected with said outlet and provided with internal drip flanges and a screw cap for closing said exit permanently attached to said receptacle.

1,396,054. MIXING DEVICE FOR INTERNAL-COMBUSTION ENGINES. HAROLD CRACLE POTTER, Shreveport, La. Filed Jan. 31, 1921. Serial No. 441,299. 3 Claims. (Cl. 48—180.)



3. In a mixing device, a body portion, a plurality of relatively short fingers extending from the body portion, relatively long fingers disposed between the first mentioned fingers and supported in spaced relation therewith, the free ends of the fingers being cut at angles, and said fingers adapted to lie in close proximity with each other when the device is positioned.

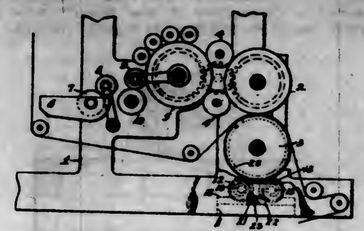
1,396,055. INKING MECHANISM FOR PRINTING-MACHINES. OTTO L. RAABE, Jersey City, N. J., assignor to R. Hoe and Co., New York, N. Y., a Corporation of New York. Original application filed Jan. 22, 1917, Serial No. 143,584. Divided and this application filed Jan. 2, 1920. Serial No. 349,007. 8 Claims. (Cl. 101—350.)



1. In a printing machine, the combination with a printing couple, of a distributing cylinder driven at the speed of the couple, a fountain roll running at considerably less speed than the speed of the couple, a roll intermediate the fountain roll and distributing cylinder, means for delivering ink from the fountain roll to the intermediate roll and from it to the distributing cylinder, and means whereby the intermediate roll may be run at a surface speed slower than that of the distributing cylinder.

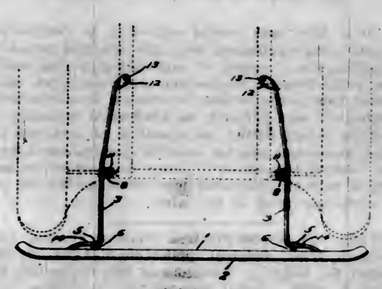
1,396,056. IMPRESSION-ADJUSTING AND BLANKET-IRONING DEVICE. OTTO L. RAABE, Jersey City, N. J., assignor to R. Hoe and Co., New York, N. Y., a Corporation of New York. Original application filed Jan. 22, 1917, Serial No. 143,584. Divided and this application filed Jan. 2, 1920. Serial No. 349,009. 9 Claims. (Cl. 101—407.)

1. In a printing machine, the combination with a form and impression cylinder arranged vertically with the latter cylinder below, of a pair of rolls located below the cylinder and on opposite sides of its vertical axis and on



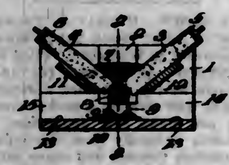
which the cylinder rests, and means for adjusting the rolls to vary the impression.

1,396,057. AUTOMOBILE-BUMPER. RAY G. RATTERMAN, Louisville, Ky., assignor to Dow Wire and Iron Works, Louisville, Ky., a Corporation of Kentucky. Filed Apr. 6, 1921. Serial No. 460,008. 1 Claim. (Cl. 293—55.)



A bumper for automobiles including a transverse bumper-bar, a pair of supporting arms, each of which has a resilient portion lying directly behind the said bar, a fastening for securing the outer end of each resilient portion of the arms to the transverse bumper-bar, a coil spring disposed between each resilient portion of the arms and the bumper-bar, the said arms being each provided with a rearwardly extending portion substantially parallel with each other, a fastening carried on each rearwardly extending portion and adapted to engage a part of the automobile, the rear end portions of the arms being each provided with means to receive a fastening, substantially as described and for the purposes set forth.

1,396,058. PROCESS FOR MAKING CARBID. JAMES HENRY REID, Pittsburgh, Pa., assignor to International Nitrogen Company, a Corporation of Delaware. Filed Sept. 21, 1917. Serial No. 192,487. 8 Claims. (Cl. 204—62.)



1. The continuous process of making a carbid which comprises feeding by gravity to a zone of reaction coked

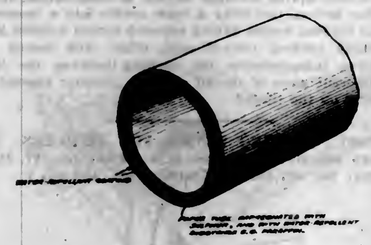
material composed of carbon and a metal oxy-compound, and removing from such zone by gravity the molten carbid substantially as rapidly as produced.

1,396,059. COLLAPSIBLE SHEET-METAL OVEN. HARVEY B. REPPETTO, Wheeling, W. Va., assignor to Whitaker-Glessner Company, Wheeling, W. Va., a Corporation of West Virginia. Filed Nov. 19, 1920. Serial No. 425,074. 5 Claims. (Cl. 126—275.)



1. A collapsible sheet-metal oven comprising front and rear walls, end walls hinged at their opposite lateral edges to said front and rear walls, a top hinged to said rear wall and having downturned front and lateral edge flanges providing seating channels for the reception of the upper edges of the front and end walls, respectively, a bottom hinged to said front wall and having upturned rear and lateral edge flanges providing seating channels for the rear and end walls, respectively, and means for releasably attaching said top and bottom to the front and rear walls, respectively.

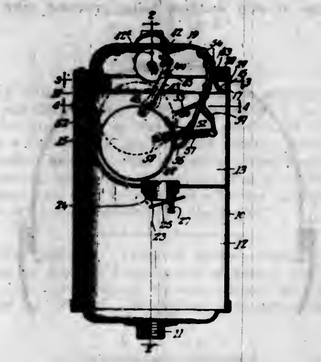
1,396,060. WATERPROOF FIBROUS MATERIAL AND PROCESS OF MAKING THE SAME. GEORGE A. RICHTER, WALLACE B. VAN ARSDEL, and DONALD H. WHITE, Berlin, N. H., assignors to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Sept. 13, 1919. Serial No. 323,624. 10 Claims. (Cl. 91—68.)



2. The herein described process of treating fibrous material, which consists in distributing sulfur throughout the body of said material, and then impregnating said material with a water-repellent compound which is solid at ordinary temperatures.

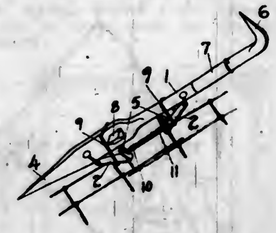
9. A rigid waterproof paper tube having distributed throughout the pores and interstices thereof both free sulfur and a waterproofing compound comprising bitumen.

1,396,061. LIQUID-SUPPLY SYSTEM. FRANK V. RESTUCCIA, Youngstown, Ohio, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed June 1, 1920. Serial No. 385,865. 10 Claims. (Cl. 158—36.)



1. In a liquid supply system, the combination of a lower tank arranged with a liquid discharge, an upper chamber having a liquid inlet and provided with a suction port and a suction-relief port, valve means for alternately opening said ports, a float for actuating said valve means, said chamber discharging into said tank, a check valve adapted to close said last named discharge when a suction condition obtains in the chamber, and a spring tending to hold said check valve open, said check valve being pivotally mounted and having its pivotal-point adjacent its center of gravity.

1,396,062. WIRE-STRETCHER. AUTHER L. SANDERSON, Paluxy, Tex. Filed Mar. 16, 1921. Serial No. 452,819. 3 Claims. (Cl. 254—77.)

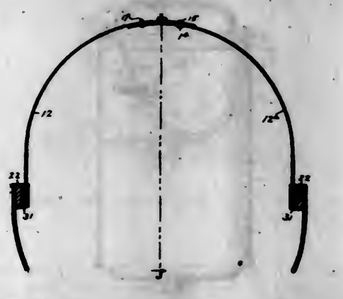


1. A wire stretcher, comprising a main lever bar; a plurality of spaced wire engaging hooks pivotally depending from one edge of said main lever bar, and adapted to grip the ends of the wire so as to draw same together when the lever bar is turned; and rings encircling the main lever bar and adapted to slide over the shanks of the wire hooks to hold the same in set position under the pull of the wires, so as to facilitate the splicing of said wires.

1,396,063. CANOPY-SUPPORT FOR CANOES AND OTHER BOATS. EMIL P. SCHMIDT, Boston, Mass. Filed June 24, 1920. Serial No. 391,286. 2 Claims. (Cl. 135—6.)

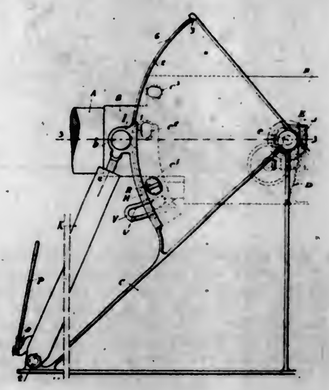
2. A canopy-supporting member for boats, comprising a resilient strip normally substantially straight, and adapted to be flexed to form a bow, the ends of which are engageable with socket on a boat, said strip being composed of a pair of normally straight resilient sections

having overlapping portions at the mid-length of the strip, and a pivot connecting said portions and located relatively near the extremity of one overlapping portion, and farther from the extremity of the other overlapping portion, said pivot permitting one section to swing relatively to the other to longitudinally contract and extend the strip, one of said sections being provided with a stud



spaced from said pivot, and the other section being provided with a stud-receiving orifice, the said stud and orifice being arranged to be held in engagement with each other by the resilience of the sections, and prevent the independent swinging of either section, the form and arrangement of the sections and pivot being such that the strip is substantially straight when longitudinally contracted.

1,396,064. APPARATUS FOR INCREASING THE RANGE OF ELEVATION IN SINGLE-TRAIL GUNS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed July 21, 1920. Serial No. 397,946. 19 Claims. (Cl. 89—40.)



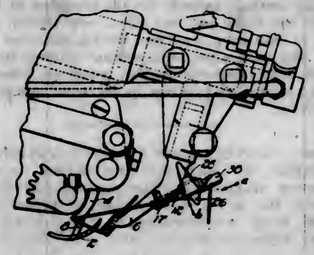
1. In apparatus for extending the limits of elevation of guns, a mounting for the gun and cradle including opposite cheek plates, a single member having bearings for both cradle trunnions mounted to move between the cheek plates and in sliding engagement therewith in an arc of a circle concentric with the axis of the actuating pinion of the elevating sector, and means for raising and lowering the single member to move simultaneously both trunnions to vary the elevation of the gun independently of the pinion and sector mechanism.

1,396,065. SANITARY CAN. HERBERT SCHRADER, Wheeling, W. Va. Filed Jan. 27, 1920. Serial No. 354,428. 1 Claim. (Cl. 220—42.)



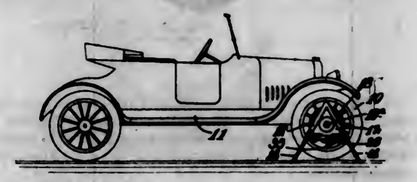
In a can, a body having a head formed with an inclined part which extends downwardly from the top of the body, the lower end of the inclined part being extended downwardly and then substantially parallel to the plane of the top of the body and then upwardly to form a relatively shallow channel, and a cap having a downwardly facing channel receiving the upwardly extending part of the head and having the lower edge of the outer wall defining the channel flared outwardly to overlie the bottom of the channel of the head in spaced relation thereto and in spaced relation to the lower terminal of the inclined part so as to allow an instrument to be engaged with the inclined part of the head and with the flared part of the cap so as to enable removal of the latter.

1,396,066. THREAD GRIPPING AND CUTTING DEVICE FOR SHOE-SEWING MACHINES. THOMAS H. SEELY, Malden, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 2, 1916. Serial No. 129,093. 11 Claims. (Cl. 112—252.)



1. A shoe sewing machine, having, in combination, stitch forming devices including a hook needle and a looper, a thread holding device having opposed thread holding jaws yieldingly pressed toward each other, and means for adjusting independently the opening between the jaws for different sizes of thread and the pressure exerted by the jaws on the thread.

1,396,067. LOCKING DEVICE FOR VEHICLES. EDWARD SETKOWSKI, Clifton, N. J. Filed Jan. 17, 1921. Serial No. 437,782. 6 Claims. (Cl. 188—31.)



1. A device of the class described, comprising a member adapted for mounting on the wheel of a vehicle, a pair of

stakes adjustably carried by said member and inclining one downwardly and forwardly and the other downwardly and rearwardly, and means for locking said stakes in adjusted positions.

1,396,068. VULCANIZER-IGNITER. HARRY A. SHEETZ, Jr., New York, N. Y. Filed Nov. 16, 1920. Serial No. 424,344. 5 Claims. (Cl. 18—18.)



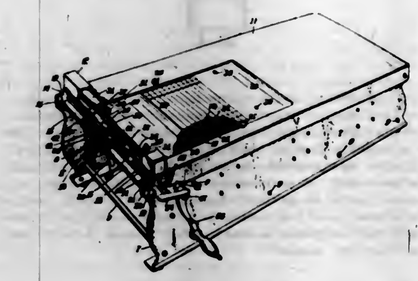
1. In a vulcanizer igniter, the combination with a fuel element, of a receptacle for the same, and means projecting from the receptacle into an opening within the fuel element for igniting the fuel element.

1,396,069. VULCANIZER. HARRY A. SHEETZ, Jr., New York, N. Y. Filed Nov. 16, 1920. Serial No. 424,345. 4 Claims. (Cl. 18—18.)



1. In a vulcanizer, the combination of a fuel element and a receptacle for said fuel element, a roughened surface on the interior of said receptacle, the said fuel element removed to provide a pocket and passageway for a match to be abraded upon said roughened surface.

1,396,070. PAPER-FEED DEVICE FOR AUTOGRAPHIC REGISTERS. WALTER C. SHOUP, Millburn township, Essex county, and WALTER E. OLIVER, Woodcliff-on-Hudson, N. J., assignors to Autographic Register Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 19, 1916, Serial No. 126,622. Renewed June 18, 1921. Serial No. 478,720. 56 Claims. (Cl. 282—21.)



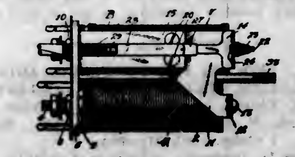
1. In a device adapted to regulate the feeding of a strip of fabric through the medium of an aperture therein, means for advancing said strip comprising substantially annular means which, upon engaging said aperture, render said advancing means inoperative to continue said advancement.

1,396,071. ARTIFICIAL TOOTH. AMOS H. SIDLEY, Ship Bottom, N. J. Filed Apr. 7, 1921. Serial No. 459,353. 3 Claims. (Cl. 32—9.)



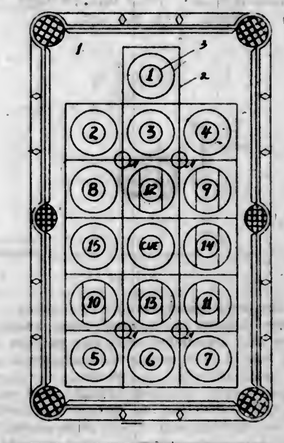
1. An artificial tooth comprising a porcelain facing and a metallic backing, said facing having a longitudinal posterior projection in the lower portion of which are formed a plurality of spaced-apart contact shoulders, the longitudinal edges of said projection being undercut and said backing being recessed and grooved to interlock with said projection and present spaced-apart portions which contact with the shoulders of the facing.

1,396,072. RELAY. CHARLES SPARKS, Chicago, Ill., assignor to Kellogg Switchboard & Supply Co., Chicago, Ill., a Corporation of Illinois. Filed Oct. 25, 1917. Serial No. 198,401. 13 Claims. (Cl. 200—102.)



1. A relay structure of the character described including a pair of electromagnets provided with cores, a connecting bridge to which one end of said cores are secured, a strip of magnetic material firmly connected to the free end of one of said cores, and an armature fulcrumed upon said magnetic strip extending across and in front of the free end of the other of said cores.

1,396,073. GAME. OCTAVE J. ST. PIERRE, Chicago, Ill. Filed Jan. 24, 1920. Serial No. 353,701. 2 Claims. (Cl. 46—59.)



1. A game comprising a representation of a pool table having squares representing the pool balls, and projecting means for distinctively marking said table to determine an individual play.

1,396,074. MOTOR-VEHICLE DRIVING MECHANISM. JOHN A. STUMPENHORST, Wilkinsburg, Pa. Filed Aug. 14, 1920. Serial No. 403,564. 9 Claims. (Cl. 192—48.)

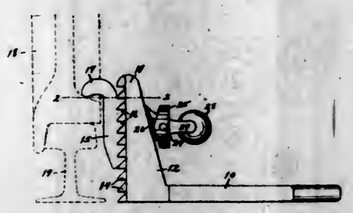


1. A power transmitting device for automotive vehicles comprising a driving means, a driven means, a plurality of shafts and gear wheels located therebetween and operatively associated therewith, a main clutch located between said driving means and one of said shafts, a multiple-jaw clutch located between said driven means and another of said shafts and embodying means on said clutch jaws for permitting the meshing thereof only when the speed of the clutch member connected to said driven means is substantially equal to, or less than, the speed of the clutch member connected to one of said shafts.

1,396,075. PROCESS FOR PRODUCING IMITATIONS OF GALALITH, CELLULOID, AND THE LIKE. HANS STEINER, Vienna, Austria, assignor to Julius Schmid, New York, N. Y. Filed Nov. 26, 1920. Serial No. 426,603. 1 Claim. (Cl. 91—68.)

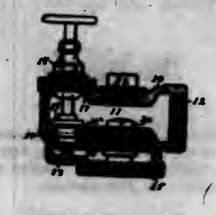
A process for producing imitations of galalith, celluloid and so forth, consisting in soaking a smooth-surfaced piece of wood in glue, coating the same with any desired color which has been intimately mixed with an excess of cellulose-ester, applying any kind of design or effect to it, coating the same with cellulose-ester, smoothing and finally polishing the latter.

1,396,076. ADJUSTABLE WHEEL-ANCHOR. ELZA S. STOTTS, Des Moines, Iowa, assignor to The Railway Signal & Equipment Company, Des Moines, Iowa, a Corporation of Maine. Filed Mar. 10, 1921. Serial No. 451,297. 4 Claims. (Cl. 254—33.)



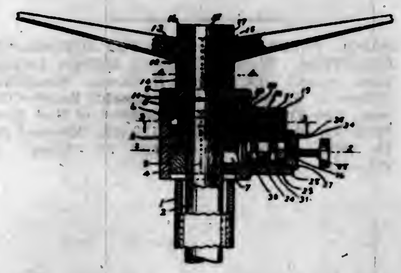
1. An adjustable wheel anchor, comprising a base, an arm formed thereon, a holding head adapted to be mounted on and adjustable vertically of said arm, said head being formed with means for engaging a car wheel, said head and arm being formed with overlapping openings, a headed stem extended through said openings and having its head contacting one face of said holding head, a head on the opposite end of said stem spaced from said arm, and a cam disk loosely mounted on said stem between said arm and the last named head, said cam disk having a smooth face in contact with said arm and a wedge face adapted to contact with the last named head, together with a lever formed on said cam disk and adapted for use in manually turning the same.

1,396,077. DRAIN-VALVE TRAP. ELZA S. STOTTS, Des Moines, Iowa, assignor to The Railway Signal & Equipment Company, Des Moines, Iowa, a Corporation of Maine. Substitute for abandoned application Serial No. 833,811, filed Mar. 31, 1914. This application filed July 30, 1921. Serial No. 488,698. 1 Claim. (Cl. 137—103.)



A self-cleaning drain-valve trap, comprising a body formed with a chamber closed at one end, an entrance opening from the exterior of the body directly to said chamber at its opposite end, an extension on said body formed with a port, an exit opening in the bottom of said port, an automatic drain valve between said chamber and port in alinement with said exit opening, an opening in said body above and in alinement with said drain valve, means for closing the latter openings, and a valve-controlled passage between said chamber and port at one side of said drain valve and adjacent the closed end of said chamber.

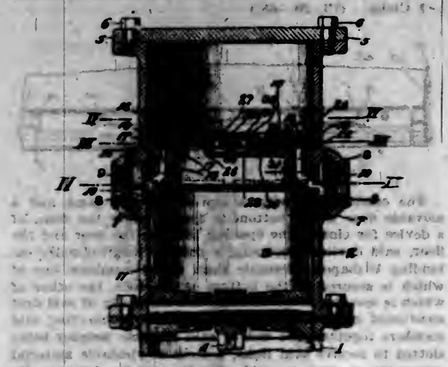
1,396,078. VEHICLE STEERING MECHANISM. LOUIS C. VANDERLIP, Elkhart, Ind. Filed May 24, 1920. Serial No. 383,715. Renewed Apr. 21, 1921. Serial No. 463,357. 10 Claims. (Cl. 76—120.)



1. In a device of the class described, in combination, a steering post; a driver hub thereon; a steering element carrier rotatably encompassing said driver hub; means for releasably locking said steering element carrier to said hub; disengageable detention means to prevent endwise movement of said carrier relative to said post; releasable means to prevent disengagement of said detention means; and lock controlled means to enable access to said last mentioned means to effect release thereof from said detention means.

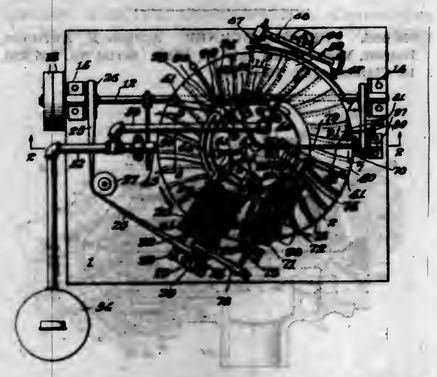
1,396,079. AIR-PUMP. ROBERT WARNOCK, Bloomfield, N. J., assignor to Empire Cream Separator Company, Bloomfield, N. J., a Corporation of New Jersey. Filed Nov. 17, 1916. Serial No. 131,832. 4 Claims. (Cl. 230—32.)

1. In apparatus of the character described, the combination of a cylinder having an inlet port in the side wall thereof between the ends of the cylinder, a piston reciprocating in said cylinder and having an elongated depression in the surface communicating at all times with said inlet port, a passage-way in said piston communicating



with said depression, an inlet valve governing the passage of fluid through said passage-way and an exhaust valve on said piston.

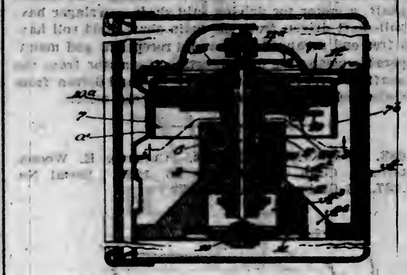
1,396,080. MACHINE FOR SNIPPING STRING-BEANS. ARTHUR P. WOLPE, Philadelphia, Pa. Filed Aug. 25, 1919. Serial No. 319,603. 10 Claims. (Cl. 146—11.)



1. In a machine for trimming or snipping off the ends of string beans, the combination of a traveling carrier provided with pockets upon its top side separated by ribs and arranged in a row lengthwise thereof and adapted to receive and support said beans, means for shifting the said beans transversely of said carrier into positions to have their opposite ends trimmed or snipped off, cutters for trimming or snipping off said ends, and brushes arranged at an angle to and extending transversely of said carrier, the bristles of the said brushes yielding as the ribs pass thereunder so that portions of the bristles of the brushes will occupy positions on opposite sides of the respective ribs, those on one side contacting with and holding the beans until the ends adjacent the brushes are snipped off.

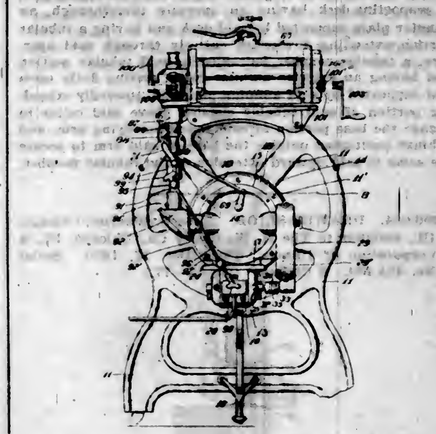
1,396,081. MAGNETIC SPEEDOMETER. ANDREW C. WOOD, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Oct. 16, 1920. Serial No. 417,450. 2 Claims. (Cl. 264—13.)

1. In a magnetic speedometer, in combination with a casing, a rotor mounted therein; a magnet device mounted on the rotor for rotation in a plane containing all the magnet poles; a field shunt member secured at one end on the rotor and extending in arcuate form around the axis of the rotor and opposite the magnet gap at one side of the zone of rotation of the magnet; a drag member mounted and biased for oscillation about the axis of rotation of the



motor in a plane at the opposite side of the magnet from the field deflector; said deflector being responsive to temperature changes to move its free end by flexure toward the magnet poles upon fall of temperature, and away from said poles upon rise of temperature.

1,396,082. POWER-DRIVE FOR WASHING-MACHINES. JAMES J. WOOD, Fort Wayne, Ind., assignor, by mesne assignments, to Hurley Machine Company, Chicago, Ill., a Corporation of Illinois. Filed July 25, 1918. Serial No. 246,647. 12 Claims. (Cl. 74—50.)



1. A washing machine main frame including an end-standard, and a power-and-gearing unit detachably mounted on said end-standard and comprising a base and a shaft to be driven, a motor and gearing for connecting the motor and the shaft to be driven, all carried by said base, and a supplemental foot secured to said standard and extending beyond the weight-center of the base-carried unit.

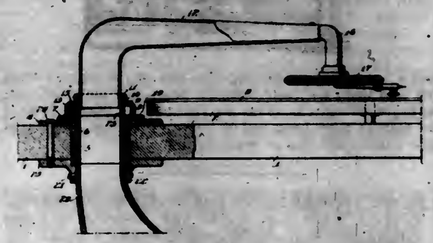
3. The combination with a cylinder washing machine having an end-standard, of a gearing base mounted on said standard, a motor mounted on the under side of said base, a drip hood overlying said motor, gearing carried by said base connected with said motor, and a shaft to be driven arranged for operation through said gearing.

4. Gearing for a cylinder washing machine including a shaft to be driven, a main shaft, connection to drive the former from the latter in either direction, reversing means including a shiftable lever 55, supporting means for

said parts, and a spring interposed between said supporting means and said lever to tend to hold the latter alternately in its extremes of position, said spring having linear limbs 61 and 62, and an interposed loop, all formed of a single piece of wire.

11. In a combined washing and wringing machine, a main shaft, a motor for driving said shaft, a wringer having a roll-shaft driven from the main shaft, said roll having its free end arranged for handle reception, and manually operable means for disconnecting the motor from the main shaft, whereby the latter may be hand-driven from the wringer roll-shaft without operating the motor.

1,396,083. TALKING-MACHINE. CLINTON E. WOODS, Waterbury, Conn. Filed June 26, 1920. Serial No. 392,137. 3 Claims. (Cl. 274—23.)



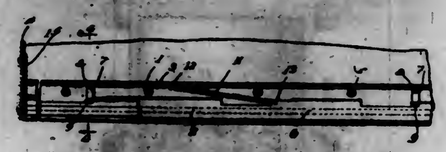
1. A talking-machine comprising a sound-conveying arm, a supporting-deck having an aperture therethrough, an annular plate supported by said deck and having a tubular portion extending downward entirely through said aperture, a tubular member journaled in said tubular portion and having an exterior annular collar resting flatly upon and supported by said annular plate, an upwardly-extending portion of said tubular member above said collar to engage the base portion of said sound-conveying arm, and a hinge positioned outside the bore of said arm to secure the same to said upward extension of the tubular member.

1,396,084. DRAWER-SLIDE. JOHN G. WRIGHT, Chicago, Ill., assignor to The D. W. Bosley Co., Chicago, Ill., a Corporation of Illinois. Filed Dec. 17, 1920. Serial No. 431,439. 6 Claims. (Cl. 45—77.)



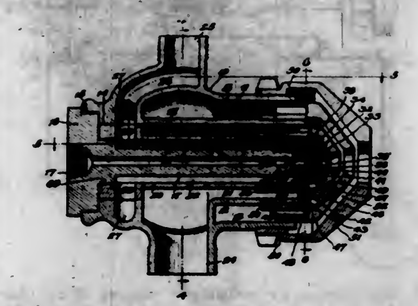
6. The combination with a casing and a drawer, of a slide comprising a pair of members, one of said members having a tongue longitudinally thereof, the other of said members having a pair of spaced, upstanding parallel ribs longitudinally thereof forming a groove therebetween, one of said members being adapted to be secured to the side of the casing so that the ribs are positioned in vertical planes, the other of said members being adapted to be secured to the side wall of the drawer along the bottom edge thereof, so that said tongue is positioned in a vertical plane intermediate the vertically positioned pair of ribs of the second member, whereby the first member may ride upon and be supported by the ribs of the second member.

1,396,085. DOOR-STRIP. JOHN G. WRIGHT and HARRY F. BENNETT, Chicago, Ill.; said Bennett assignor to said Wright. Filed Jan. 20, 1921. Serial No. 438,616. 1 Claim. (Cl. 20—68.)



The combination with a stationary door jamb and a movable door whose bottom is spaced above the floor, of a device for closing the opening between the door and the floor, said device comprising a pair of longitudinally extending U-shaped telescopic sheet metal members, one of which is secured to the bottom of the door, the other of which is movable longitudinally and vertically of said first mentioned member, spaced links pivotally connecting said members together, the web of said movable member being slotted to receive said links, a strip of yieldable material removably secured in said movable member between its opposed inner walls and projecting there beyond, a spring connecting said members and urging said movable member to swing in an arc upwardly and longitudinally about the pivots of said links to project its end beyond said door and into the path of the door jamb, whereby said projecting portion may be engaged by the door jamb during the door closure to effect the closing of said opening.

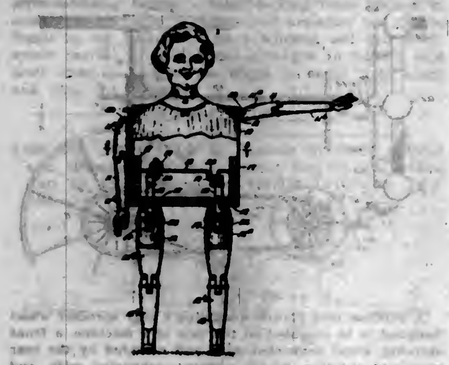
1,396,086. FUEL-OIL BURNER. ALFRED R. ANTHONY, Detroit, Mich. Filed July 20, 1918. Serial No. 246,930. 13 Claims. (Cl. 158—76.)



5. A burner of the character described including in combination, a fuel tube, a fluid conduit around the tube, a pair of caps on the end of the tube constructed and arranged to direct conical streams of fluid into the jet issuing from the tube and means on each cap to effect a whirling motion of the fluid.

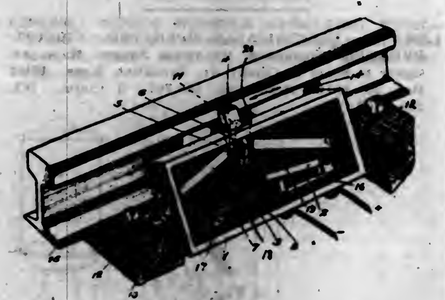
1,396,087. WALKING TOY. ROBERT IVAN ARMBRUSTER, Philadelphia, Pa. Filed Aug. 13, 1920. Serial No. 403,264. 1 Claim. (Cl. 46—40.)

A walking doll comprising a body having a bottom portion, vertically swingable arms pivoted upon the sides thereof, either arm serving as a handle whereby to effect manipulation of the doll, the bottom portion of the body being formed with spaced slots, lever members extending through said slots and pivoted at the lower end of the body, a horizontally disposed shaft within the body formed with oppositely extending crank portions, links pivotally connected with the respective crank portions and jointed legs pivoted upon the lower ends of said lever members, said legs being provided with knee joints, the upper ends of the legs being slotted for the reception of the lower ends of said lever members, said slots defining abutment



shoulders, and the lower ends of the levers being formed with extensions engageable with said shoulders whereby to limit swinging movement of the legs.

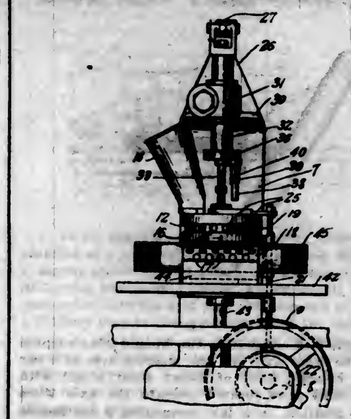
1,396,088. ELECTRIC SIGNAL-SWITCH. CHRISTOPHER C. BAGNELL, Duluth, Minn. Filed Apr. 22, 1921. Serial No. 463,717. 3 Claims. (Cl. 246—250.)



1. A railway signal switch comprising in combination with a rail, a box permanently mounted adjacent the rail, a vertically operative knife blade switch within the box, means for normally holding the blade of the switch in open position, a vertically reciprocal plunger above the switch, means for normally holding the plunger in vertical position out of engagement with the switch and means whereby when the plunger is operated by a wheel traversing the rail in one direction it will close the switch, but when engaged by a wheel traveling in the opposite direction it will fail to close the switch.

1,396,089. BEARING-FILLING MACHINE. LEONARD BARTLETT, Boston, Mass., assignor to Reliance Machine & Specialty Co., Boston, Mass., a Corporation of Massachusetts. Filed July 28, 1920. Serial No. 399,575. 12 Claims. (Cl. 18—5.)

1. A bearing filling machine comprising, means to hold a perforated bearing, a receptacle adapted to hold lubricating material, a carrier provided with pockets adapted to hold lubricating material, and means to move the pockets in said carrier from said receptacle to said bearing-holding means whereby lubricating material is conveyed from said receptacle to the perforated bearing mounted in said holding means.



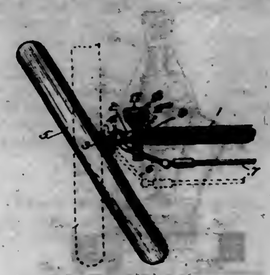
1,396,090. PUNCH-FILLER FOR BEARINGS. LEONARD BARTLETT, Boston, Mass., assignor, by direct and mesne assignments, to Reliance Machine & Specialty Co., Boston, Mass., a Corporation of Massachusetts. Filed Oct. 22, 1919, Serial No. 332,557. Renewed Jan. 17, 1921. Serial No. 437,966. 8 Claims. (Cl. 18—59.)



6. The combination with a power punch of a filling device comprising a mandrel adapted to hold a perforated bearing in position and close the inner end of the perforation to be filled, a feeding device adapted to supply material to be packed in the perforations of said bearing, and a plunger connected with the power punch and operable thereby adapted to pack the material in the perforations successively.

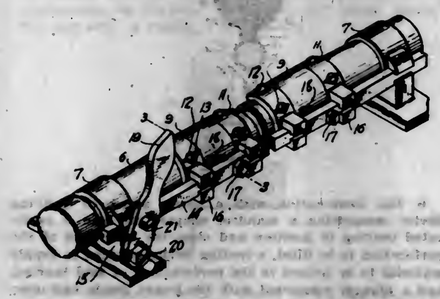
7. The combination with a power punch of a filling device comprising a mandrel adapted to hold a perforated bearing in position and close the inner end of the perforation to be filled, a hopper adapted to hold the material to be packed in the several perforations, a passageway leading from the hopper to the perforation to be filled, and a plunger connected with the power punch adapted to pack the material in said perforation, said plunger being adapted to close said passageway in its descent.

1,396,091. AUTOMOBILE-LOCK. James W. Barwick, Pinegark, Ga. Filed May 27, 1920. Serial No. 384,620. 1 Claim. (Cl. 70—90.)



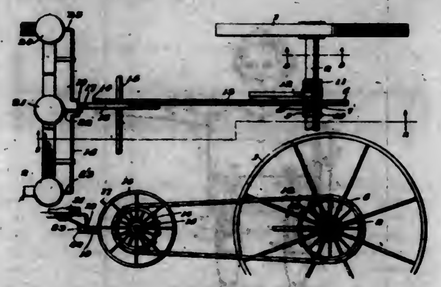
An automobile lock comprising two hinged jaws adapted to surround the front axle and the steering arm of a car adjacent the knuckle joint of either front wheel with the hinge of said jaws located beneath the axle when the lock is in position, each jaw comprising a continuous bar, the front jaw being formed with an intermediate upright flat portion to bear against the front side of the axle, and upper and lower bowed portions to receive the flanges of the axle, the rear jaw having an intermediate continuous loop to engage the steering arm, the end sections of the rear jaw engaging about the flanges of the axle, the upper end of the rear jaw having an indentation to seat the knuckle member whereby the device is held rigidly on the axle and prevented from sliding movement thereon when an attempt is made to steer the automobile, and means for connecting the upper ends of said jaws above the axle, said means including a locking mechanism to prevent the separation of the jaws and consequently of the axle and steering arm whereby the steering arm is held immovable and steering of the automobile is made impossible.

1,396,092. SHOWER-PIPE. Arthur Eugene Binns, Mansfield, Mass. Filed Sept. 13, 1920. Serial No. 409,816. 8 Claims. (Cl. 239—58.)



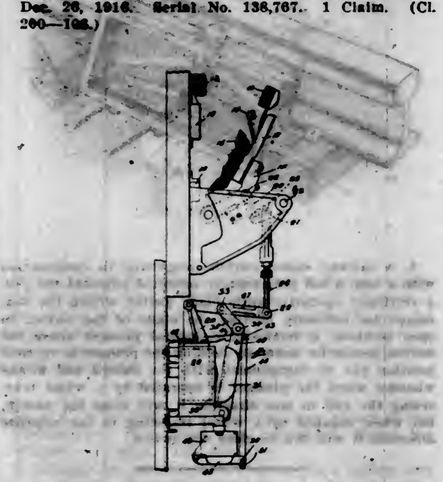
1. In a construction of the character described, a pipe, brackets for supporting said pipe, a bar longitudinally guided in said brackets, guides secured to said pipe and supporting said bar at points intermediate said brackets, a deflecting member held by two adjacent guides, said pipe having an outlet adjacent an edge of said deflecting member, and a pin and slot connection between said bar and said deflecting member whereby said deflecting member may be moved by said bar.

1,396,093. WIRELESS CORN-PLANTER. Benson Batterson, Odebolt, Iowa. Filed Apr. 6, 1921. Serial No. 459,590. 1 Claim. (Cl. 111—26.)



A wireless corn planter including a rear sprocket wheel designed to be mounted on the axle of a machine, a front sprocket wheel connected with and actuated by the rear sprocket wheel, a rotary element connected with and actuated by the front sprocket wheel and provided with a projecting tooth, feed boxes having dropping devices in the bottom thereof, a shaft or rod connected with said dropping devices, the shaft or rod being provided at a point opposite the rotary element with a loop, a lime or chalk box located between the feed boxes, a dropping device for said box having a lever extending beneath the loop of the shaft or rod and means for causing the projecting tooth of the rotary element to depress the loop and lever for operating the dropping devices.

1,396,094. ELECTRICALLY-OPERATED CIRCUIT-BREAKER. George A. Burnham, Saugus, Mass., assignor to Sears B. Condit, Jr., Brookline, Mass. Filed Dec. 26, 1916. Serial No. 138,767. 1 Claim. (Cl. 200—168.)



An operating unit adapted for connection with the mechanism of an electric switch electrically to open and close it comprising a supporting frame, a closing coil carried thereby, an armature pivoted to said frame arranged in front of said coil and having a link-receiving portion at its free end, a switch-operating lever pivotally supported to said frame above said coil having an end

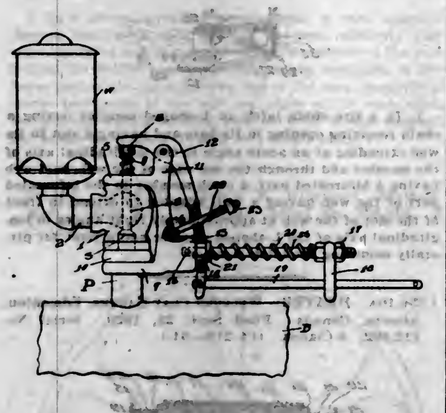
connection adapted to be connected with the switch mechanism, a link pivotally connected with said lever intermediate its ends and with the link-receiving portion of said armature, whereby to form with said armature a lever-operating toggle, a toggle-locking lever pivoted to said frame arranged to engage said armature to lock the toggle in set condition, and a tripping coil and mechanism carried by said frame arranged to remove said lever from its lock of the toggle to cause it to break and open the switch.

1,396,095. SWITCH-LOCK. Georges Aloysius Cokely and Michael David Crawford, Garrett, Pa. Filed July 29, 1921. Serial No. 488,338. 4 Claims. (Cl. 191—39.)



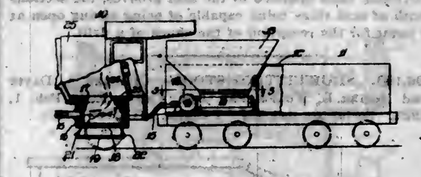
4. The combination with a switch including spaced terminals and a movable member therebetween having an opening, of a guide having a danger indicator, a slide mounted on the guide, a bolt movable therewith, supporting lugs upon the guide, spring means coöperating with the lugs and upon the slide for detachably supporting said slide in elevated position to conceal the danger indicator, said slide when released being movable downwardly to direct the bolt into the opening in the movable member of the switch.

1,396,096. STEAM-WHISTLE-OPERATING MECHANISM. Tommy J. Converse, Bellingham, Wash. Filed Mar. 13, 1920. Serial No. 365,521. 3 Claims. (Cl. 116—137.)



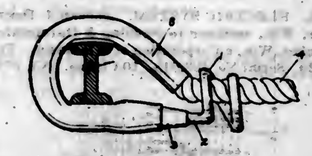
1. The combination with a boiler having an outlet, a valve casing connected to the outlet, and a whistle for receiving pressure from the casing, of a valve in the casing and having the stem projecting therebeyond, yielding means engaging the stem for holding the valve normally on its seat and shutting off the escape of pressure to the whistle, a lever having one end in position to actuate the stem and its other end extending toward the boiler, means connected to said lever and close to the boiler for actuating the lever to unseat the valve, a guide slidably engaged by the lever, and yielding means on the guide for holding the lever normally in a predetermined position.

1,396,097. APPARATUS FOR UTILIZING LUMP-FUEL. Joseph H. Coorsa, Chicago, Ill. Filed July 20, 1918. Serial No. 245,808. 2 Claims. (Cl. 110—106.)



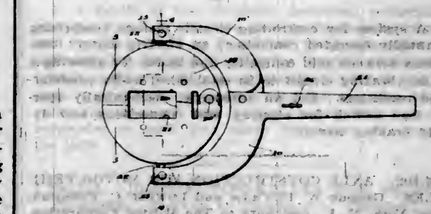
2. In an apparatus of the character described, the combination of a relatively broad and shallow mixing chamber, a screen above said chamber, means for pulverizing and delivering fuel to said screen, an air supply pipe, a flaring connection between said pipe and one end of said chamber, a delivery pipe at the opposite end of the chamber through which a mixture of air and fuel is delivered from the chamber, a flaring connection between said delivery pipe and said chamber, a blower, and means for operating said pulverizing means and said blower at predetermined relative speed ratios.

1,396,098. HOOK OR COUPLING FOR TOWLINES. O. D. Curtis, Kalamazoo, Mich., assignor of one-half to Richard H. Brignall, two-fifths to Glen E. Crane, Kalamazoo, Mich., and one-tenth to Ray Myers, Breedsville, Mich. Filed Mar. 16, 1921. Serial No. 452,647. 1 Claim. (Cl. 213—67.)



A spirally formed hook having a shank of substantial length offset from and disposed parallel to the axis of the spiral and terminating in a longitudinally disposed socket, a rope having its end secured in said socket, and a piece of hose embracing said socket and a portion of the rope adjacent the hook and coacting therewith, providing a loop portion adapted to surround an axle or the like and prevent the hook drawing against the same.

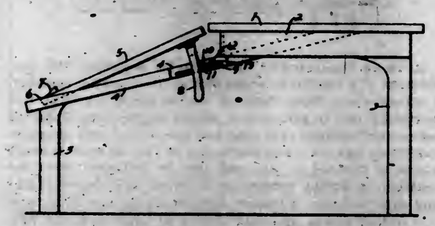
1,396,099. WELL-DRILL WRENCH. William H. Ellinger, Wichita Falls, Tex. Filed Feb. 14, 1921. Serial No. 444,773. 4 Claims. (Cl. 81—119.)



2. A well drill wrench comprising a yoke having one of its arms pivotally mounted and both arms carrying pivot members on the ends thereof, a ring consisting of a pair of sections pivotally connected together at a point adja-

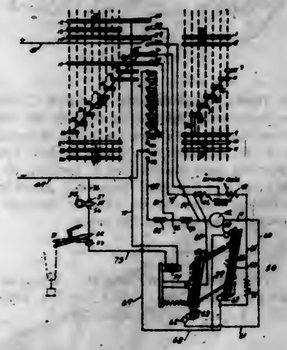
cent the connection of the pivotal arm of the yoke and each section pivotally connected to an arm of the yoke, said ring having a circular groove in its upper face, a ring disposed above the first ring and grooved in its lower face, antifriction balls disposed in the said grooves, the sections of both of said rings being capable of being swung open at one point for the reception of the chuck of a drill.

1,396,100. SHOE-FITTING STOOL. CHARLES A. DAVIS and HOMER L. WOLFE, San Jose, Calif. Filed Feb. 1, 1921. Serial No. 441,584. 1 Claim. (Cl. 155—36.)



A shoe fitting stool comprising a supporting frame, a seat portion arranged thereon, a foot rest pivotally mounted on the forward portion of said frame and extending toward said seat portion, a toothed element depending from the lower surface of the free end of said foot rest and formed on an arc of which said pivotal mounting is the center, and a latch mounted to normally engage said toothed element but disengageable therefrom.

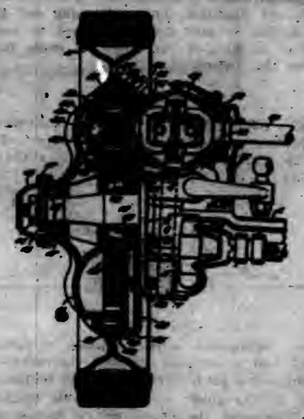
1,396,101. ELECTRIC SYSTEM. ALFRED J. DREYER, Milwaukee, Wis., assignor to Pawling & Harnischfeger Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 12, 1920. Serial No. 403,018. 10 Claims. (Cl. 172—179.)



4. A system for controlling electric motors, comprising a manually operated controller; an electric motor; connections between said controller and motor for allowing a dynamic braking circuit to be established under predetermined conditions; and an automatic, mechanically operated load switch for altering said connections and dynamic braking circuit.

1,396,102. AXLE CONSTRUCTION FOR MOTOR-VEHICLES. GEORGE W. DUNHAM and LOWELL C. FREEMAN, New York, N. Y., assignors to The Militor Corporation, New York, N. Y., a Corporation of New York. Filed June 16, 1919. Serial No. 304,666. 11 Claims. (Cl. 74—7.)

1. The combination, with an axle, of a wheel removably carried by the spindle of the axle, a gear secured to the wheel in concentric relation thereto, a shaft extending from beyond the inner side of the wheel through the plane of the gear, a pinion on the shaft for coöperation with the gear, and means supporting the shaft and including a bearing situated on the outside of the pinion, said bearing



being of a diameter greater than that of the minimum circle concentric with the bearing and touched by the teeth of the gear as they interengage with those of the pinion, said means being shiftable laterally to remove the bearing from the path of the gear when it is desired to withdraw the wheel from the spindle.

1,396,103. TIRE-CHAIN FASTENER. ALBERT W. EDMONDS, Jamestown, N. Y. Filed Feb. 28, 1920. Serial No. 361,930. 6 Claims. (Cl. 24—73.)



1. In a tire chain latch an L-shaped member having a chain receiving opening in its base and having a slot in its web extending at an acute angle to the longitudinal axis of the member and through the top edge of the web, said web having a bifurcated part, a latch member in the bifurcated part of the web having a wall adapted to extend in front of the slot of the web at approximately right angles to longitudinal axis of the L-shaped member and a rivet for pivotally mounting the latch member.

1,396,104. HEATER. WELDON CLAY GARNER, Edmonton, Alberta, Canada. Filed Sept. 25, 1920. Serial No. 412,802. 6 Claims. (Cl. 219—64.)



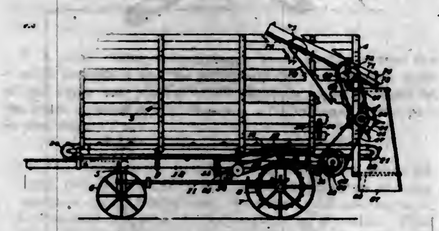
1. A heater of the character described comprising a casing having a wall intermediate of its height, a ring of heat retaining material above the wall, and a block of heat non-conducting material above the ring to thereby provide an air space at the center of the ring above the wall, and an electric heating means above the block.

1,396,105. ELECTRICAL HEATING ELEMENT. WELDON C. GARNER, Edmonton, Alberta, Canada. Filed Sept. 25, 1920. Serial No. 412,803. 1 Claim. (Cl. 219—64.)



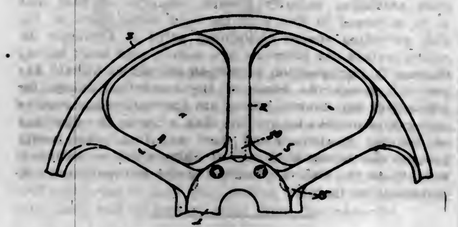
An electric heating element comprising upper and lower members of heat retaining material having parallel upper and lower surfaces and meeting on a plane parallel to said upper and lower surfaces, a resistance element located between the said members and embedded in them, a heat insulating strip extending around the periphery of the said members, a metallic band extending transversely to the line of meeting between the said upper and lower members and embracing the strip of heat insulating material and retaining it in position.

1,396,106. SPREADING DEVICE. DUDLEY GARST, Waterloo, Iowa. Filed Oct. 12, 1920. Serial No. 416,897. 5 Claims. (Cl. 275—5.)



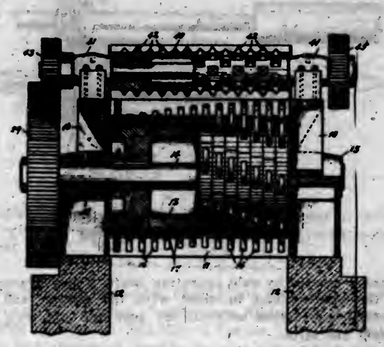
1. In a straw spreader, running-gear, a rack mounted thereon having an open delivery end and relatively high sides, carrying-means movable along the bottom of the rack toward its delivery end, ejecting means mounted in the lower part of the open delivery end of the rack, supporting-means positioned at the rear top parts of the rack sides, and a reciprocatory rubbing body mounted in said supporting means to reciprocate only in a single plane.

1,396,107. WHEEL. MASON B. GIBERSON, Saginaw, Mich. Filed Nov. 15, 1919. Serial No. 338,215. 8 Claims. (Cl. 301—9.)



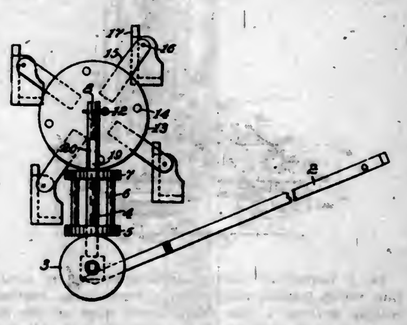
1. In a metallic vehicle wheel, the combination with a hub having a flange, of a spoke section mounted upon said hub, bolts for clamping said spoke section to said flange, and lugs upon said spoke section and embracing said flange to assist said bolts in securing said spoke section to said hub.

1,396,108. DISINTEGRATING-MACHINE. THOMAS GILMORE, Jr., Brooklyn, N. Y., assignor to General Briquetting Company, New York, N. Y., a Corporation of Maine. Filed Mar. 5, 1920. Serial No. 363,521. 1 Claim. (Cl. 83—6.)



In a disintegrating machine, a rotary disintegrator comprising a drum, a plurality of individual cutters mounted upon said drum in predetermined relation to each other, said cutters each consisting of a base lying in surface engagement with said drum and an integral cutting member projecting from said base, and fastening devices passing through said bases whereby the latter are fixed in abutting engagement with each other to space said cutters apart both circumferentially and longitudinally of said drum and to secure them thereto.

1,396,109. WHEELED TOY. ISAAC GRIMSLEY, Lamar, Colo. Filed Feb. 7, 1921. Serial No. 443,134. 3 Claims. (Cl. 46—45.)

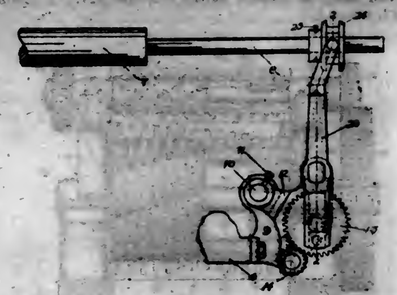


1. A device of the character described, comprising a carrying wheel, a rotatable member frictionally engaging said carrying wheel to be rotated thereby, another rotatable member frictionally engaging the first-mentioned rotatable member to be rotated thereby, a plurality of fixed arms projecting outwardly from the second-mentioned rotatable member, and a seat-shaped body pivotally suspended on each arm above the center of gravity of the body.

1,396,110. DISTRIBUTING-ROLLER FOR PRINTING-PRESSES. EDWARD O. HENTSCHEL, Cleveland, Ohio. Filed Mar. 1, 1921. Serial No. 448,798. 1 Claim. (Cl. 101—348.)

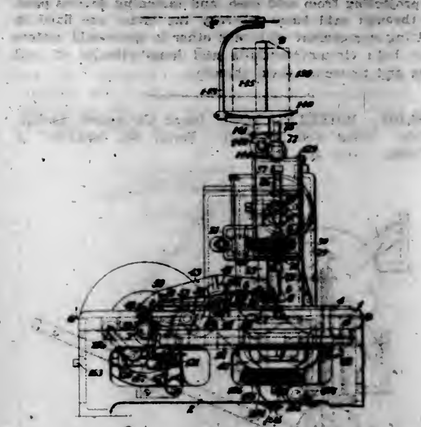
The combination of a distributing roller having a shaft and a grooved collar thereon, a fixed rod extending transverse to the axis of the shaft, a bracket supported on said

end, a lever fulcrumed on the bracket and having an operating connection with the collar, an operating shaft extending through and having a bearing in the bracket,



a pinion carried by said operating shaft, a gear journaled on the bracket and in mesh with the pinion, and an eccentric connection between the gear and the lever, to vibrate the latter.

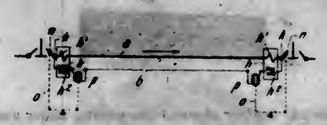
1,396,111. BUTTONHOLE-SEWING MACHINE. GEORGE S. HALL, Strafford, N. H., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 6, 1913. Serial No. 788,201. 30 Claims. (Cl. 112—71.)



24. A buttonhole sewing machine having, in combination, stitch forming mechanism, a work clamp, buttonhole cutting devices, a cam shaft, three cams on the shaft, connections through which one cam closes the clamp, another cam gives a relative traverse to the clamp and cutting devices and another cam actuates the cutter, mechanism for driving the shaft and stopping it, mechanism thrown into operation by the cam shaft for actuating the stitch forming mechanism and work clamp to sew about a buttonhole after the cam shaft is stopped.

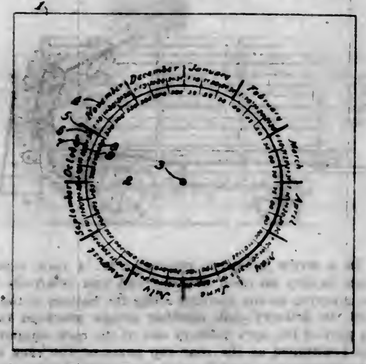
1,396,112. SYSTEM FOR PROTECTING ELECTRIC-CURRENT-DISTRIBUTING NETS AGAINST TEMPORARY INTERRUPTIONS. MARTIN HOCHSTADTER, Berlin, Germany, assignor to N. V. Lyn-Proctectie Maatschappij tot Exploitatie van Electro-Technische en Andere Octrooien, The Hague, Netherlands, a Dutch Corporation. Filed Oct. 20, 1914. Serial No. 867,683. 4 Claims. (Cl. 175—294.)

1. Method of automatically disconnecting defective branches from a network of mains, each branch comprising a main conductor and an equipotential control conductor, which consists in causing the main conductor of each branch to inductively produce during normal operation within the coöperating control conductor a potential displacement by means of which the releasing organs of



said branch are maintained in equilibrium and in causing an operation of said organs upon an alteration of the normal potential displacement owing to a defect, said operation effecting a disconnection of the defective branch from the net.

1,396,113. ADJUSTABLE TABULAR DEVICE. JENS S. HOLM, Cedar Falls, Iowa. Filed May 2, 1921. Serial No. 466,292. 1 Claim. (Cl. 40—113.)



A weight determining device of the character described, comprising a disk having a plurality of marginal radial lines providing marginal spaces containing numerals in an increasing series to denote different weights, and a sheet on which said disk is positioned, said sheet having lines extending radially toward the edge of said disk to be arranged in line with the said radial lines on the disk providing spaces containing pairs of numerals denoting certain day intervals in a month, said sheet having thereon in juxtaposition to certain pluralities of said day interval spaces the name of the respective month for which said day interval spaces are appropriated in regular sequence of months around the disk, whereby the disk may be movably located on the sheet and then permanently non-movably mounted thereon to show a determination of weights on the disk relative to the day interval spaces in juxtaposition thereto.

1,396,114. RECOIL MECHANISM FOR GUNS. BRADFORD B. HOLMES, U. S. Army, assignor to Newton D. Baker, Secretary of War, United States of America, trustee. Filed Nov. 22, 1919. Serial No. 339,994. 9 Claims. (Cl. 89—43.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

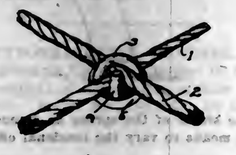
1. In a recoil mechanism for guns, a recuperator mechanism of the hydropneumatic type comprising spaced

piston-heads, a spring compressed between said piston-heads and a valve extending through one of said piston-



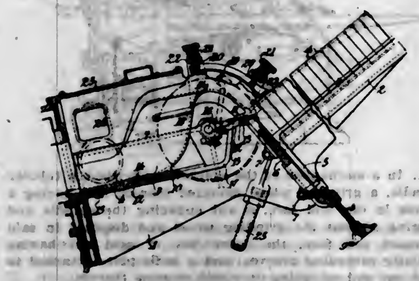
heads and adapted to be operated by contact with the other of said piston heads.

1,396,115. CABLE-CLAMP. FRED HOTCHNER, San Francisco, Calif. Filed Sept. 29, 1920. Serial No. 413,525. 4 Claims. (Cl. 24—123.)



2. A cable clamp comprising a plate having a seat for a cable thereon, a pair of projecting lugs on opposite sides of the cable seat and a U-bolt passing through holes in the plate symmetrically disposed with respect to the projecting lugs.

1,396,116. FEEDING DEVICE FOR ANNULAR BODIES. AXEL GUSTAF EMANUEL HULTGREN, Gottenborg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden, a Corporation of Sweden. Filed Aug. 10, 1918. Serial No. 249,368. 12 Claims. (Cl. 193—1.)

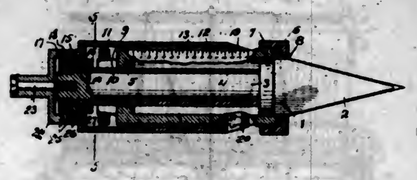


1. A device for feeding rings, comprising an inclined magazine adapted to support a stack of rings face to face at such angle that they slide to its lower end by gravity, automatic feeding means for successively pushing the lower end ring in its own plane obliquely out of the magazine, a discharging incline, and means for turning the ring from its oblique feeding plane to a vertical plane and delivering it onto such incline, so that the successive rings may roll by gravity away from the magazine.

1,396,117. PLUG-MICROMETER. LLOYD G. ILIFF, Kansas City, Mo. Filed Dec. 24, 1920. Serial No. 433,049. 8 Claims. (Cl. 33—178.)

1. In a micrometer, a member having a tapering measuring end portion, an externally threaded sleeve rotatable on said member and held from longitudinal movement thereon, an elongated member provided with a longitudinal

row of graduations and having threaded engagement with said sleeve, and a barrel member movable with said sleeve and encircling said graduated member and having a cir-

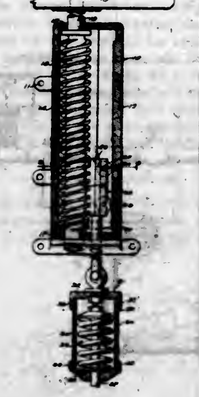


cumferentially graduated end portion arranged to coöperate with the said longitudinal graduations, substantially as set forth.

1,396,118. PROCESS OF TREATING NATURAL STONE. FRANK P. JACKSON, Youngstown, Ohio. Filed July 29, 1920. Serial No. 399,956. 2 Claims. (Cl. 91—70.)

1. The process of treating natural stone which consists first in expelling the moisture therefrom by means of heat and then impregnating the whole body of the stone with a mixture of linseed oil, paraffin wax and paraffin oil in a heated state.

1,396,119. HAND-BRAKE. ROBERT EDWARD JACKSON, Princeton, W. Va. Filed May 3, 1920. Serial No. 378,590. 3 Claims. (Cl. 74—120.)

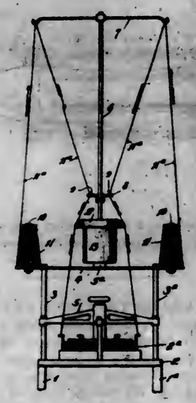


1. In a device of the character described, a casing embodying flanges, a multiple threaded worm mounted therein, said flanges being parallel to the axis of the worm, a rack block slidably mounted in said flanges and having teeth engaging said worm on one side, and an anti-friction element carried by said block on the opposite side thereof and contacting said casing.

1,396,120. OILING DEVICE FOR FIBER SILK AND THE LIKE. JOSEPH JACOBS, Brooklyn, N. Y. Filed Oct. 23, 1919. Serial No. 332,693. 7 Claims. (Cl. 66—12.)

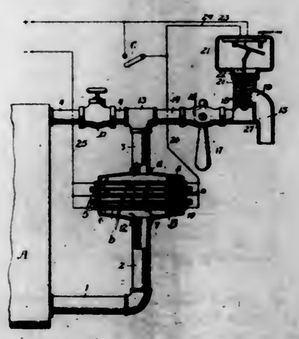
1. An oiling device for knitting machines comprising a cylindrical pot having a vertically disposed axial bore com-

prising a cylindrical tube adapted to form a seat for the pot, a circular outwardly-extending marginal flange at the



rim thereof as and for the purpose specified, and means for feeding liquid to said flange.

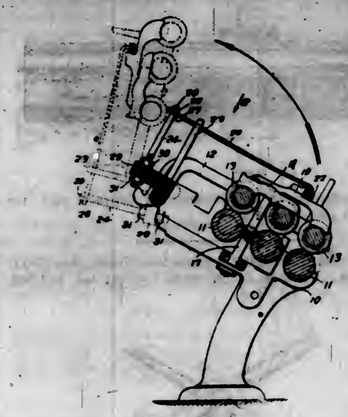
1,396,121. ELECTRIC WATER-HEATER. RICHARD S. JACOBSEN, Chicago, Ill. Filed Aug. 22, 1917. Serial No. 187,512. 20 Claims. (Cl. 219—39.)



1. An electric water-heater comprising a hollow body provided with successive heating disks immersed in the water, means to connect said disks with a source of electric current, and connections whereby the water in passing through said device encounters said disks in succession.

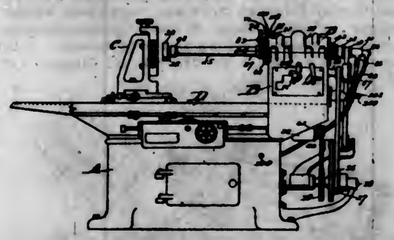
1,396,122. DRAWING-ROLL MECHANISM FOR SPINNING-FRAMES. CHARLES H. JOHNSON, Salisbury, N. C., assignor of one-third to George O. Linn and one-third to Paul K. Dry, Landis, N. C. Filed May 28, 1921. Serial No. 473,552. 9 Claims. (Cl. 19—33.)

4. A drawing roll mechanism comprising the combination with a stand, a top bar pivoted thereto, and top rolls carried by the bar, of journals carried by the bar adapted to maintain the top rolls in journaled relation thereto, a spring carried by the bar and movable therewith, means



employing the stress of the spring as a tension upon the top rolls and means to vary the tensional efficiency of the spring.

1,396,123. INTERNAL-GRINDING MACHINE. HARRY F. JOSEPH, Davenport, Iowa, assignor, by mesne assignments, to B. L. Schmidt Company, a Corporation of South Dakota. Filed Aug. 7, 1920. Serial No. 401,088. 10 Claims. (Cl. 51—267.)



1. In a mechanism of the character described, a tubular spindle, a grinding wheel mounted thereon and having a recess in one end face, a nut engaging the spindle and bearing against the grinding wheel and disposed in said recessed end face, the outer face of said nut having radially extending grooves, and a baffle plate attached to said nut and extending over said recesses therein.

5. In a mechanism of the character described, a tubular rotatable spindle, bearings supporting the spindle, a fixed hollow head into which the rear end of the spindle projects and open at its opposite ends, anti-friction bearing elements disposed within the hollow head and supporting the rear end of the spindle, a plug detachably closing the rear end of the head, a nozzle carried by said plug and discharging into the bore of the spindle, and a tubular water connection operatively engaged with the nozzle.

1,396,124. PROCESS OF MAKING SHOES. JOHN A. KELLY, Braintree, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 25, 1917. Serial No. 164,248. 9 Claims. (Cl. 12—142.)

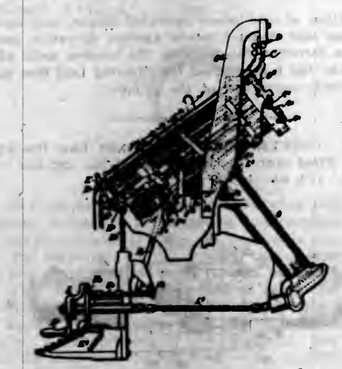
1. In the art of making shoes, the improvement which consists in positioning a narrow fabric flap against one face

of an insole and next to the margin thereof, sewing the fabric flap to the insole by parallel seams extending crosswise of said insole to provide free portions of the flap at



spaced intervals, imposing the insole upon a last, lasting an upper, and stapling the marginal portion of the upper to the said free portions of the fabric flap, and thereafter attaching an outsole to the shoe.

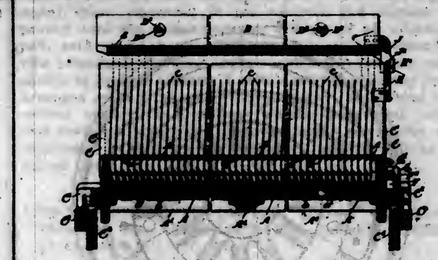
1,396,125. TYPOGRAPHICAL MACHINE. DAVID S. KENNEDY, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Nov. 8, 1919. Serial No. 336,582. 34 Claims. (Cl. 199—20.)



4. In a typographical machine, the combination of a channeled member, a shift-frame equipped with a plurality of channeled magazines supported therein with a capacity for relative play in a facewise direction, means for moving the shift-frame to bring one or another of the magazines into operative relation to said channeled member, and gage-devices upon which the selected magazine is caused to bank independently as it is brought into operative position and which adjust it facewise within the shift-frame to locate it in proper transverse registration with the coöperating channeled member.

1,396,126. TYPOGRAPHICAL MACHINE. DAVID S. KENNEDY, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Feb. 24, 1920. Serial No. 360,594. 24 Claims. (Cl. 199—39.)

4. In a typographical distributing machine, the combination of a channeled magazine, a channeled magazine-entrance movable into and out of operative relation to the magazine and relatively adjustable in an edgewise direction to locate the corresponding channels of said parts in proper lateral registration, and automatic means



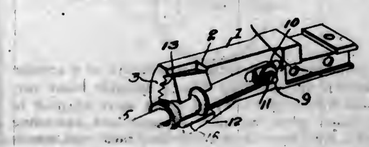
acting when said magazine-entrance is moved to operative position to effect the required adjustment thereof.

1,396,127. AUTOMATIC GOOSENECK-RELEASER FOR CROSSOVER TIPPLE-DUMPS. ANTHONY KUBITICH, Latuda, Utah. Filed Apr. 8, 1921. Serial No. 459,761. 1 Claim. (Cl. 104—252.)



In a coal car tipple dump, the combination with a tilting track section having car wheel engaging horns normally and yieldably held in elevated position with respect to the rails of the section, an operating rod connected with the horns to move them out of operative position, one of the rails of the dump at a suitable distance from the tilting section being rabbeted, and a trip finger pivotally mounted in the rabbet and arranged to be depressed by the wheels of the next succeeding loaded car, said finger having a depending arm connected with said operating rod.

1,396,128. STUB-AXLE ADJUSTMENT DEVICE. OTTO E. KOPPLIN, Marion, Tex. Filed Feb. 3, 1921. Serial No. 442,175. 9 Claims. (Cl. 301—132.)

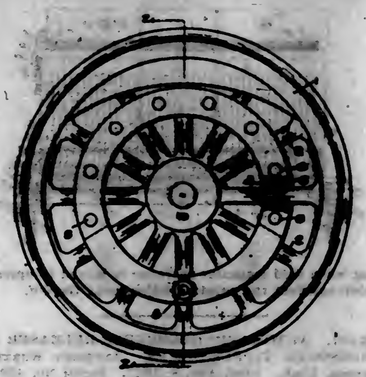


1. In a device of the class described, the combination of a frame provided with a vertically-extending aperture near its outer end and with a longitudinally-extending aperture intermediate its ends, a bodily movable stub-axle upon said frame, and means engaging the stub-axle and positioned in said apertures for retaining the stub-axle in adjusted positions.

1,396,129. LOCOMOTIVE DRIVING-WHEEL. WILLIAM KYLE, Bellville, Ontario, Canada. Filed Mar. 25, 1921. Serial No. 455,682. 4 Claims. (Cl. 295—2.)

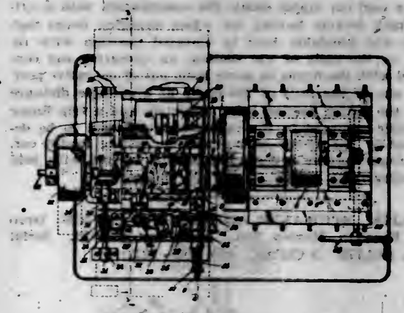
1. The combination with a locomotive drive wheel, of an attachment secured to the spokes of the wheel for part of

its circumference, said attachment being free of the spokes, of the remaining part of the wheel, and means



for pivotally connecting the connecting rod to the center of the free portion of the attachment.

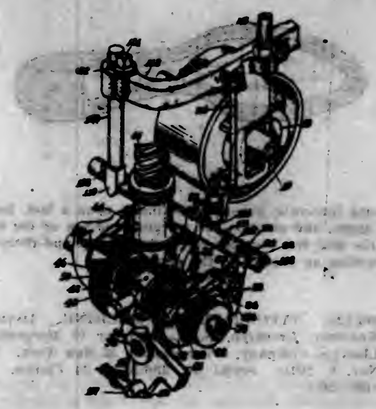
1,396,130. **GRINDING-MACHINE.** St. Clair Lake, Poughkeepsie, N. Y., assignor to Moline Plow Company, a Corporation of New York. Filed Mar. 8, 1919. Serial No. 281,394. 27 Claims. (Cl. 51—118.)



1. In a grinding machine, the combination of a grinder provided with a flat grinding face, a movable blank carrier provided with a plurality of blank seats adapted to hold the blanks with one edge exposed and extending parallel with the plane of the grinding face, and means for intermittently positioning the holder relatively to the grinder to present the blanks in succession in a plane inclined to the plane of the grinding face and with the edge of the blank impinged against said face; whereby the impinged edge will be ground down on a bevel.

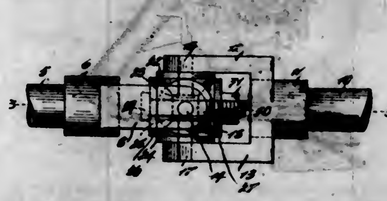
1,396,131. **PULLING-OVER MACHINE.** John T. Lancaster, Haverhill, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 16, 1918, Serial No. 217,573. Renewed Apr. 14, 1920. Serial No. 373,954. 19 Claims. (Cl. 12—4.)

1. In a pulling-over machine, the combination with a gripper and means for operating the gripper to cause it to pull an upper and to cause to rest while holding the upper under tension, of power operated means for imparting subsequent movement to the gripper of variable extent as determined by the operator and in a direction to relax the tension of the upper, manual means for controlling



the operation of said power operated means, and means for locking said manual means against operative movement in a direction for relaxing the tension until after the machine has been started for effecting said first mentioned pulling movement of the gripper.

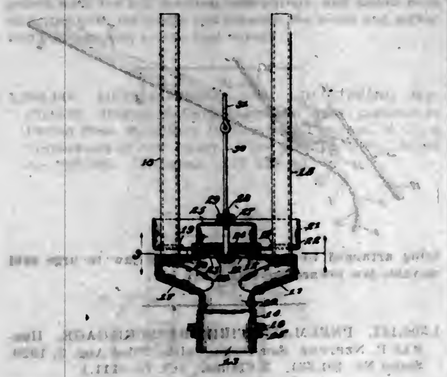
1,396,132. **UNIVERSAL JOINT.** Nixon Lee, Brooklyn, N. Y. Filed Mar. 14, 1919. Serial No. 282,554. 18 Claims. (Cl. 64—102.)



12. A universal joint comprising driving and driven members each provided with diverging jaws, two transversely projecting oppositely disposed conical blocks mounted within the jaws of each member, the respective sets of blocks sliding over each other in all positions of said members, means, comprising a pair of conical blocks rotatably carried by a bolt passing between the four conical blocks mounted on said jaws, said pair of blocks bearing against each of said four blocks along their respective conical surfaces, for holding the respective sets of said blocks in such position that their axes of alinement will intersect in all relative positions of said driving and driven members, and means for adjusting the positions of said conical blocks against said transversely projecting blocks carried by said jaws.

1,396,133. **VALVE FOR FLUSHING-TANKS.** Henry N. Lundy, Boston, Mass. Filed Jan. 6, 1921. Serial No. 435,439. 7 Claims. (Cl. 4—5.)

1. In a flushing valve for water closets, a hollow body portion having an inlet and outlet; two parallel overflow pipes extending upwardly from said body portion; a plate provided with openings through which said parallel



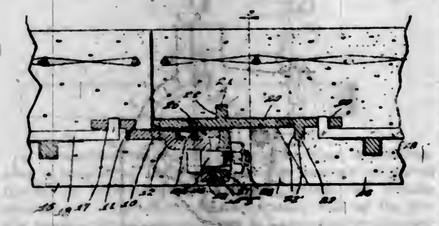
overflow pipes extend; and a packing member secured to the under side of said plate and adapted to close said inlet.

1,396,134. **DEMOUNTABLE RIM.** Walter Scott Martin, Flint, Mich. Filed Mar. 30, 1921. Serial No. 456,945. 2 Claims. (Cl. 301—22.)



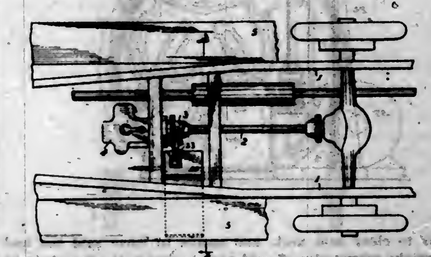
1. In a device for the purpose indicated, a felly of substantially U-form in cross section and provided with a rim retaining abutment flange, an expansible ring engaged with the inner face of the opposite radial flange of the felly and adapted to be forced radially outwardly in contact with the rim, wedges mounted upon the interior cylindrical wall of the U-form felly and having means to cam against the expansible ring, for expanding the same radially, a rim telescoped over the felly, and against which the ring expands and frictionally engages, thereby frictionally retaining the rim on the felly.

1,396,135. **METALED-END CONCRETE PIPE.** Coleman Meatwether, Indianapolis, Ind., assignor to Peter C. Reilly, Indianapolis, Ind. Filed Dec. 18, 1919. Serial No. 344,613. 13 Claims. (Cl. 72—53.)



1. In a concrete pipe, an embedded metal bell having a spigot receiving portion, an adjacent packing receiving shoulder, an end flange, an internally projecting outwardly presented shoulder against which the concrete may shrink, clamping bolts projected outwardly through said flange with their heads held against rotation by contact with the bell and embedded in the concrete, a metal spigot embedded in the concrete and formed to project into the spigot-receiving portion of an adjacent bell, said spigot having internal and external annular ribs presenting surfaces against which the concrete will shrink to prevent leakage, a metal packing engaging ring arranged around the spigot end adjacent the packing receiving surface, and pressure means cooperating with said bolts and ring, said pressure means comprising an individual pressure toe for each bolt, said toe having a curved outer face.

1,396,136. **SIGNALING DEVICE.** Donald C. Miller, Cleveland, Ohio. Filed Apr. 7, 1921. Serial No. 459,367. 11 Claims. (Cl. 116—33.)



1. The combination with a vehicle of a signaling device comprising a visual annunciator and an audible annunciator, said visual annunciator having a legend indicating that the vehicle is being improperly moved, and means operative upon the movement of said vehicle for starting both annunciators.

1,396,137. **BUTTON OR BADGE.** Charles F. Mitchel, Rochester, N. Y., assignor to Bastian Bros. Co., Rochester, N. Y., a Corporation of New York. Filed Apr. 2, 1921. Serial No. 457,968. 2 Claims. (Cl. 40—1.5.)

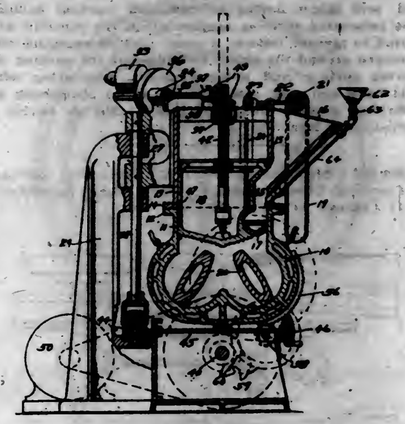


1. A badge or button comprising a front member having an annular rearwardly extending flange and inwardly extending lugs, a circular rear member having notches corresponding to said lugs, said member also having between two of the notches spring tongues extending toward each other from opposite directions and spaced apart at their ends a distance substantially equal to the width of the lugs so that the inwardly extending lugs may ride upon either of said tongues to enter into a locked position between the ends of the tongues.

1,396,138. **MACHINE FOR TREATING RUBBER COMPOUND OR OTHER PLASTIC MATERIALS.** Clifford C. Mosher, Lima, Ohio. Filed Mar. 29, 1921. Serial No. 457,948. 30 Claims. (Cl. 18.2.)

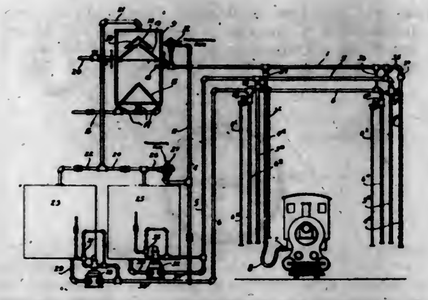
1. In a machine of the class described, the combination of a tiltable mixing trough having an upstanding neck, a

hopper-box fitting onto said neck, a weight slidable in said box and neck, means to raise said weight in said box so



as to clear said neck, and means to move said box and weight rearwardly off said neck to enable the trough to be tilted.

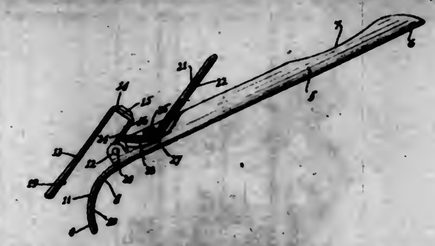
1,396,139. LOCOMOTIVE WASHOUT AND REFILLING APPARATUS. JOHN O. NEIKIRK, Lombard, Ill. Filed Mar. 24, 1920. Serial No. 368,263. 5 Claims. (Cl. 122—396.)



1. In apparatus of the character described, the combination of a line connected to receive and for conducting the entire blow-off of water and steam from a boiler, means for delivering cold water to said blow-off to reduce its temperature before the water and steam have been separated, and means to receive and store the entire tempered blow-off and means for discharging said tempered blow-off for reuse in a boiler.

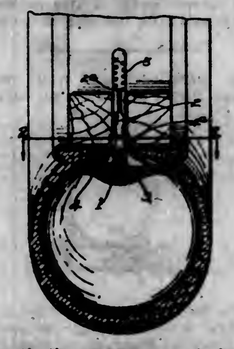
1,396,140. DETACHABLE HANDLE. ARTHUR NELSON, Rock Falls, Ill. Filed July 23, 1921. Serial No. 486,994. 4 Claims. (Cl. 16—114.)

2. A handle of the character described comprising a handle member having a stationary jaw provided on one end, a movable jaw pivoted to the handle member adjacent the stationary jaw, and a cam lever pivoted to the handle between the handle and the movable jaw, said cam lever



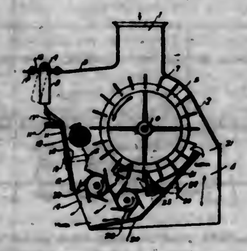
being arranged to engage the movable jaw to urge said movable jaw toward the stationary jaw.

1,396,141. PNEUMATIC-TIRE PRESSURE-GAGE. HARMAN P. NEPTUNE, San Diego, Calif. Filed Aug. 5, 1920. Serial No. 401,331. 3 Claims. (Cl. 73—111.)



1. A pneumatic tire pressure gage, including a flexible flap member, a plunger member secured in the center at one side of said flap, a bell shaped support member positioned around said plunger with its mouth covered by said flap, a spring interposed between said bell shaped support member and said flap and a transparent cap secured to said support receiving the free end of said plunger and provided with indicating symbols adapted to coöperate with said plunger whereby the pressure in the tire is indicated.

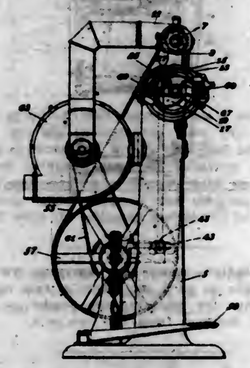
1,396,142. HULLING AND CLEANING FEEDER FOR COTTON-GINS. JAMES M. PEMBSON, Florence, Ala. Filed Mar. 19, 1920. Serial No. 367,199. 15 Claims. (Cl. 19—9.)



13. In a gin feeder and cleaner, a casing having a top cotton inlet and bottom outlets for hulls and cotton, a

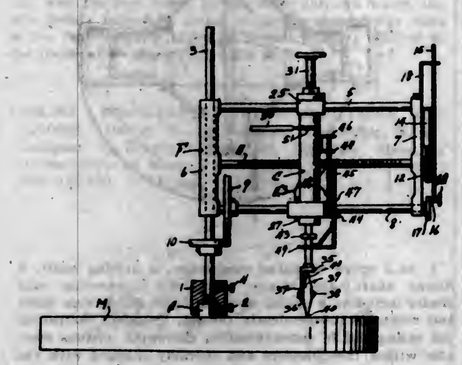
spiked feeder roll rotatable therein, a brush rotatable at side of the roll adjacent to the hull outlet, huller ribs co-acting with the roll between said outlets, and picker rolls co-acting with the feeder roll between the brush and picker ribs and adjacent to the hull outlet.

1,396,143. HEEL-GOUGING AND LIP-CUTTING MACHINE. JOSEPH H. POPE, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 13, 1918. Serial No. 262,295. 17 Claims. (Cl. 12—46.)



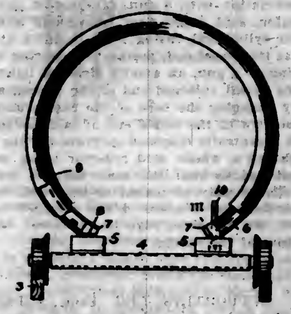
1. A machine of the class described, having in combination, a cutter, a holder for a heel, and power actuated means for causing the heel to be traversed by the cutter from a point near the rear of the heel to the breast thereof and acting to increase the depth of the cut at the breast end.

1,396,144. MACHINE FOR DRESSING STONE. JAMES M. RICE, Lineville, Ala. Filed May 1, 1920. Serial No. 378,196. 5 Claims. (Cl. 125—29.)



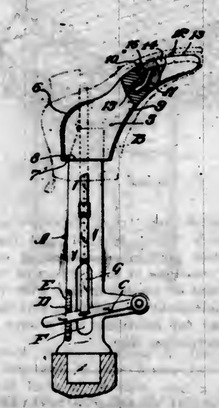
1. A machine for dressing stone comprising, in combination, a supporting structure, a tubular member supported thereby, a hollow member arranged within the tubular member for reciprocatory movement, the wall of the hollow member being provided with a longitudinally disposed slot, an outstanding lug carried by the hollow member and extending through the slot of the tubular member, a rotatable cam element arranged for contact with the lug to intermittently move the hollow member in one direction, means for rotating the cam member, means for constantly urging the hollow member in the opposite direction, a rod extending through both the tubular member and the hollow member, means for connecting the hollow member and the rod for unitary reciprocatory movement, a stone working tool carried by the rod, and means operatively engaged with the rod at a point within the hollow member for rotating said rod independently of its reciprocation.

1,396,145. MANDREL FOR MAKING INNER TUBES. FRANK M. ROESSING, Sharpsburg, Pa. Filed Mar. 28, 1921. Serial No. 456,051. 5 Claims. (Cl. 18—45.)



1. A vulcanising truck having a mandrel-supporting surface, and an arc-shaped mandrel forming approximately a circle and having the circumferential surface at its ends resting on the said surface, the said surfaces being shaped to support the mandrel in a vertical plane.

1,396,146. SHOE-CAPPING LAST. ELMER SMILEY, Moravia, Iowa. Filed Sept. 15, 1920. Serial No. 410,374. 2 Claims. (Cl. 12—123.)



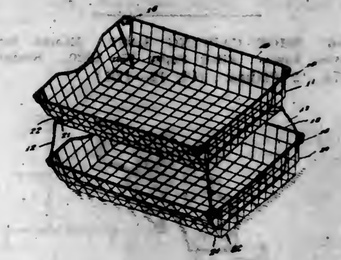
1. A shoe capping last comprising a heel block having an extension, said extension projecting beyond and obliquely with respect to the heel engaging surface of the heel block, a tongue disposed in the end face of the extension and extending toward the sole engaging surface of the extension, and a toe block having an angularly disposed socket adapted to receive the tongue, whereby pressure upon the sole engaging surface of the toe block will tend to move the toe block toward the extension.

1,396,147. GUN-SEARCHLIGHT. David T. Smith, Mead, Nebr. Filed Feb. 12, 1920. Serial No. 358,212. 1 Claim. (Cl. 240—8.4.)



The combination with a gun, of a search light attachment therefor, said attachment comprising a cylindrical casing said cylindrical casing being smaller at its open end than at its closed end, means for securing said cylindrical casing to a gun, an axially disposed light threaded through the closed enlarged end of the casing, a reflector frictionally engaging the bore of the casing and disposed in engagement with the closed end of said casing and provided with a centrally disposed aperture for the reception of the light as a whole, said reflector being made from flexible material so that the same may be transversely flexed so that it may be placed in the small end of the casing and disposed in place in the enlarged end of the casing with its marginal edge in frictional engagement with the bore of the casing.

1,396,148. SUPPORTING-LEG FOR SUPERPOSING WIRE TRAYS. Frank M. Snyder, La Fayette, Ind., assignor to The Peerless Wire Goods Company, La Fayette, Ind., a Corporation of Indiana. Filed Apr. 25, 1921. Serial No. 464,474. 3 Claims. (Cl. 211—14.)

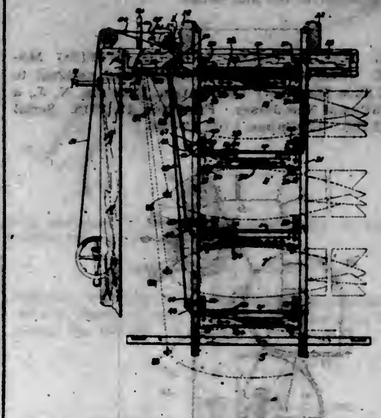


1. In combination, two trays, superposing legs for interconnecting such trays, each of said legs being provided with hooked portions for hooking obliquely over and under wire crossings at the corners of the upper tray and being provided at its lower end with two separated prongs, and double-socketed members attached to corners of the lower tray for receiving the prongs at the lower ends of said superposing legs.

1,396,149. TREATMENT OF PHOSPHATES. Ellis C. Soper, Chattanooga, Tenn. Filed July 6, 1918. Serial No. 242,678. 23 Claims. (Cl. 71—7.)

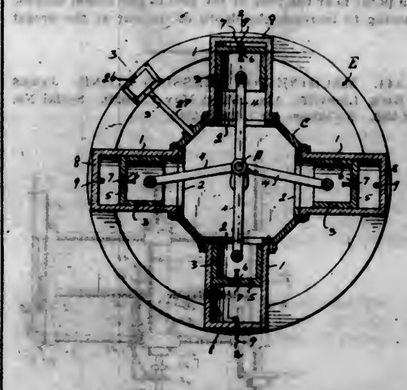
1. The process of treating phosphatic material to render the contained phosphoric acid citrate soluble, said process consisting in forming briquets of a compound containing an intimate mixture of finely ground phosphatic material bound with a combustible binder, and subjecting said briquets to a high temperature sufficient to burn the combustible binder and render the phosphoric acid citrate soluble.

1,396,150. BOMB CARRYING AND RELEASE SYSTEM. Harry D. Wiess, U. S. Army. Filed June 7, 1919. Serial No. 302,586. 12 Claims. (Cl. 244—1.)



1. In combination, means for carrying two sets of bombs, the bombs in each set being in two vertical columns, and means for releasing the bombs so that they are alternately dropped from the two sets.

1,396,151. SPEED-CHANGING MECHANISM. William I. Wemelsfelder, Scottville, Ill. Filed Feb. 24, 1920. Serial No. 360,984. 11 Claims. (Cl. 192—60.)



1. In a speed changing mechanism, a driving shaft, a driven shaft, and means operatively connecting said shafts including a casing mounted upon the driving shaft and rotatable independently thereof, cylinders carried by the casing and in communication therewith, pistons movable within the cylinders and operably engaged with the driving shaft, each of said pistons having a port therein affording communication within the cylinder at opposite sides of the piston, a chamber in communication with the casing at a single point and with each of the cylinders at points beyond the pistons when at the limit of their movement away from the casing, said casing, cylinders and chamber being adapted to contain a mobile medium, and centrifugally operated means for retarding the flow of the mobile medium through the communication between the chamber and the casing.

1,396,152. GRINDING-MILL. Harry F. Winslow, Brooklyn, N. Y. Filed July 24, 1920. Serial No. 398,703. 14 Claims. (Cl. 83—12.)



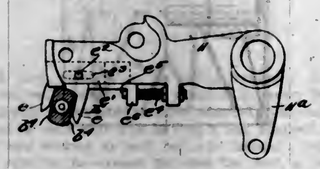
4. In a grinding mill comprising a series of rolls adapted to operate in sequence upon the material and including a delivery roll for the finished product, a pair of separated scrapers arranged adjacent said delivery roll toward opposite ends thereof, said scrapers having their scraping edges adjacent the meeting line of said delivery roll with the adjacent earlier roll of the sequence.

1,396,153. WEATHER-STRIPPING FOR VEHICLES. Frank H. Wittern, Flandreau, S. D. Filed Feb. 15, 1921. Serial No. 445,121. 4 Claims. (Cl. 74—81.)



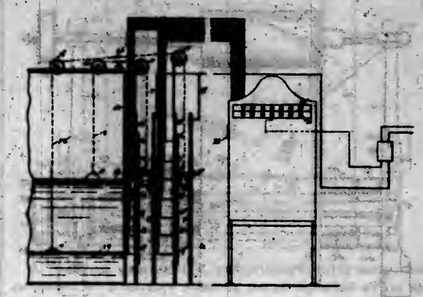
1. In combination with the foot pedal of an automobile, and the foot board having slots through which the said pedals extend, a frame extending around the slots in the foot board, a series of flexible bristles secured to the frame and covering the said slots.

1,396,154. WEFT-REPLENISHING MECHANISM FOR LOOMS. Henry W. Youngquist, Manchester, N. H., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Aug. 21, 1919. Serial No. 318,866. 8 Claims. (Cl. 139—95.)



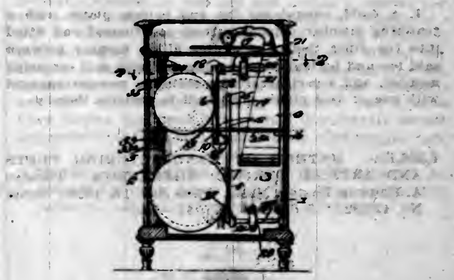
7. In a weft replenishing mechanism, a transferrer having a filling carrier controlling device comprising clamping jaws which engage opposite sides of the filling carrier between the head and the filler carrying portion and enter the shuttle beyond the jaws of the latter whereby rotation of the filling carrier during transfer is prevented.

1,396,155. ELECTRICAL TANK-GAGE. Ernest C. Bartlett and Joseph E. Allison, Houston, Tex. Filed Sept. 8, 1917. Serial No. 190,342. 1 Claim. (Cl. 177—351.)



A device of the type described, including a liquid containing receptacle, floats of somewhat less specific gravity than the contained liquid and somewhat less specific gravity than the liquid settlings, respectively, fixed contact-plates, electrical conductors connected to said contact-plates, series of contact points fixed relative to each other and spaced apart, a current conductor connected to each of said points, an electrical indicator in circuit with each of said last referred to conductors, and a plurality of circuit makers and breakers controlled by said floats, in constant contact with the contact-plates and contacting successively with said contact-points as said floats are affected by the rising and falling of said liquid and the liquid-settlings.

1,396,156. COMBINATION RECORD RACK AND EJECTOR FOR CABINETS. Joseph F. Bigos, Richmond, Va. Filed Aug. 12, 1920, Serial No. 403,176. Renewed Aug. 22, 1921. Serial No. 494,367. 15 Claims. (Cl. 211—16.)

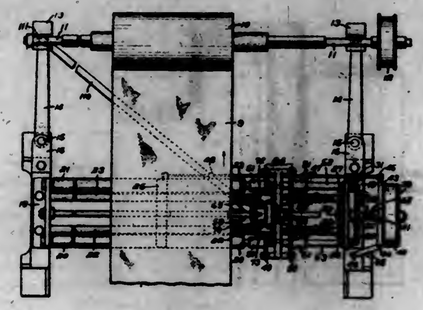


15. In a record cabinet, means in the forward part thereof to be engaged by the lower forward edges of upper and lower tiers of records, and a rack back advanceable on an axis advanceable transversely of the cabinet, to eject either tier of records or both simultaneously.

1,396,157. SHEET-GUIDING MECHANISM. Sydney Birch, Mansfield, Mass. Filed Mar. 11, 1919. Serial No. 282,024. 26 Claims. (Cl. 26—18.)

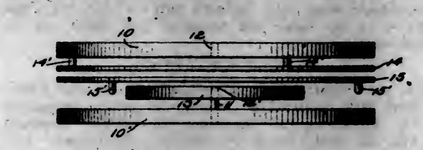
8. Sheet guiding means comprising in combination, a forked member to engage an edge of the sheet between its points of support, a carriage whereon said forked member

is mounted for swinging movement in the direction of travel of the sheet or in the opposite direction, and means



whereby movement of the forked member in either of said directions causes corresponding movement of said carriage.

1,396,158. MOLD. WILLIAM T. BONNER, Trenton, N. J., assignor of one-half to Max Brown and one-half to Max Brown, trustee, Boston, Mass. Filed July 17, 1919. Serial No. 311,418. 4 Claims. (Cl. 18—42.)



1. A mold, comprising top and bottom plates with a centering member extending from one thereof and fitted into the other thereof, a center filling member between said top and bottom members engaged with said centering member, and a peripheral ring confining member engaged with one of said plates to be held in position thereby.

1,396,159. METHOD OF MANUFACTURING TUFTS AND ARTICLE DERIVED THEREFROM. THOMAS A. BOWERS, Boston, Mass. Filed Nov. 13, 1920. Serial No. 423,921. 3 Claims. (Cl. 41—10.)



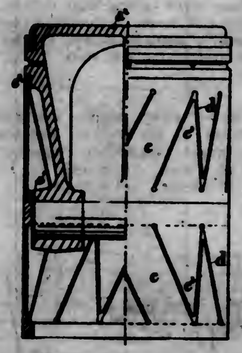
1. A method of manufacture, consisting in arranging a plurality of strands of fibrous material parallel to each other, subjecting said strands to the action of a contracting die, whereby to crimp the same, applying binding means to said strands adjacent said point of crimping, and in subsequently cutting said strands at points between said binding means.

1,396,160. SOFTENING APPARATUS. MATTHIAS BROCK, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 4, 1918. Serial No. 232,526. 12 Claims. (Cl. 12—1.)



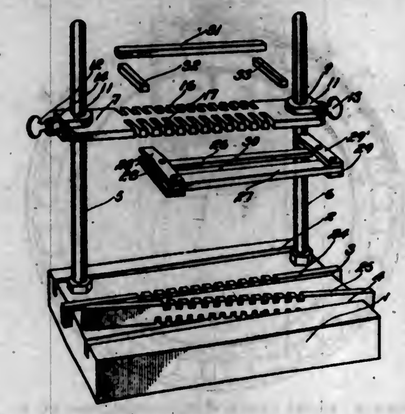
1. In an apparatus of the class described, means for supplying a softening agent to a treating locality, and means constructed and arranged to support an unlasted shoe-upper off the last so that the interior of the counter-portion will be presented to the softening agent.

1,396,161. TRUNK-PISTON. PHILIP CHALLIS, London, England. Filed Mar. 16, 1920. Serial No. 366,369. 10 Claims. (Cl. 74—108.)



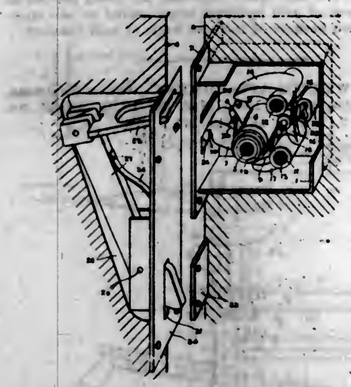
4. A piston, comprising a head, a body-portion, guide-surfaces supported from said body-portion, said guide-surfaces being slotted obliquely on intersecting lines to form flexible tongues between the slots in said guide-surfaces, said tongues extending lengthwise of the piston and projecting radially beyond the unslotted portions of said guide-surfaces.

1,396,162. BATTERY-PLATE-BURNING RACK. EDGAR W. CAMPBELL and MERTON W. RAMSEY, Kansas City, Mo., assignors to Campbell Engineering Corporation, Kansas City, Mo., a Corporation of Missouri. Filed Nov. 26, 1920. Serial No. 426,670. 9 Claims. (Cl. 113—59.)



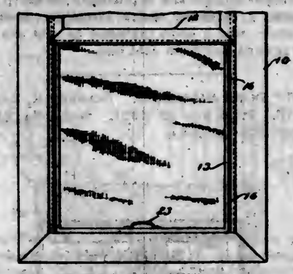
1. A plate burning rack comprising a base having plate-positioning combs, and an additional comb supported above the base and adjustable in relation thereto.

1,396,163. LOCK. JOSEPH PACY CLERAL and ROBERT ENON AWDE, Toronto, Ontario, Canada. Filed Feb. 28, 1920. Serial No. 362,107. 3 Claims. (Cl. 70—31.)



1. A lock, comprising, in casing having a slot in one side thereof, a slotted bolt adapted to enter the slot in said casing, a rotatable member adapted to be engaged and rotated by said bolt and having a lug adapted to be engaged and rotated by said bolt and having a lug adapted upon rotation to extend through the slot, a bell crank latch member adapted to engage said lug when extending through said bolt, a bell crank dog pivotally connected to said latch member, a lug projection on said rotatable member adapted to engage said dog when in its locked position, spring means for holding the pivotal connection of said latch and dog in a break joint position, and key means for breaking said joint to swing said latch and dog clear of the rotatable member to effect the release of the lock bolt.

1,396,164. METAL SCREEN. WARREN W. COLE, Portland, Me. Filed Nov. 30, 1917. Serial No. 204,705. 3 Claims. (Cl. 158—14.)



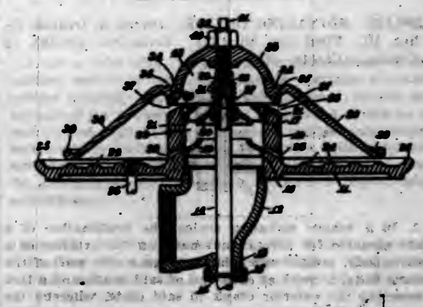
2. A screen as described, comprising a solid metal frame composed of a unitary mass of metal rabbeted at its sides and presenting projecting guide ribs with springs mounted laterally of such ribs, and rails of wood presenting plain back adapted to be planed for fitting to sides of a window frame, said rails having grooves in the inner sides thereof to receive said ribs.

1,396,165. MACHINE-TOOL. MARCUS M. COEY, Fond du Lac, Wis., assignor to Giddings & Lewis Machine Tool Company, Fond du Lac, Wis., a Corporation of Wisconsin. Filed Sept. 27, 1919. Serial No. 326,870. 12 Claims. (Cl. 90—58.)



1. A machine of the class described having in combination, a longitudinally extending bed, a saddle longitudinally slidable on said bed and having a central portion and a lateral projection, said projection comprising a pair of spaced triangular trusses each having a horizontally extending top member alined with said central portion, a downwardly extending member adjacent the side of said bed, a strut joining the ends of said outwardly and said downwardly extending members, and a cross piece joining the lower ends of said downwardly extending members to unite said trusses into a rigid integral unit.

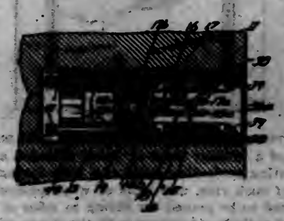
1,396,166. OIL-BURNER FOR STOVES, FURNACES, &c. JOHN T. DALCHER, Jersey City, N. J. Filed Apr. 4, 1921. Serial No. 458,438. 16 Claims. (Cl. 158—91.)



16. A tubular member surrounded by an oil pan; an air pipe communicating with the lower end thereof; an oil

supply pipe centrally disposed in said tubular member; an oil distributing member threaded to the upper end of said pipe and having a plurality of discharge outlets communicating with said pipe and a plurality of sharp peripheral projections; a threaded shank extending upwardly from said member; and a hood threaded to said shank and adjustable toward and from said pan.

1,396,167. DOOR-SILENCER. GODFREY R. DAMIANI, Chicago, Ill. Filed Feb. 25, 1921. Serial No. 447,647. 10 Claims. (Cl. 16—85.)



5. The combination with a door and door frame of a door silencer consisting of two members, the door and frame having one of the members secured to each of them, one of the members comprising a pivotally mounted lever, means for yieldingly forcing the lever against the other member when the members are being displaced relatively to each other, and means for withdrawing the lever from contact with the other member when the door is to be opened.

1,396,168. CHANGE-SPEED BELT-DRIVE. HANS HINRICH FARMSEN DANCKE, Hamburg, Germany. Filed Apr. 22, 1920. Serial No. 375,854. 5 Claims. (Cl. 64—8.)



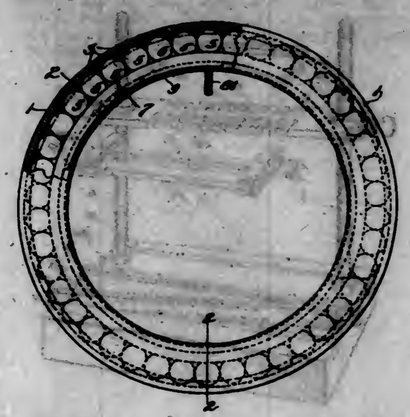
1. A change speed belt drive, comprising two pairs of conical pulleys, two shafts, on each of which one pair of the said pulleys is secured unrotatably, but axially movably, two Z-shaped rails, on which the two shafts are journaled, means to adjust the distance between the rails.

1,396,169. SIGNALING DEVICE. JULIUS A. DYELIE, Joliet, Ill. Filed Jan. 20, 1921. Serial No. 438,733. 2 Claims. (Cl. 116—52.)



1. In a vehicle signaling device, the combination of a plate mounted for pivotal movement on the exterior of a vehicle body, a shaft extending through a side wall of the vehicle body, a crank at each end of said shaft, and a link connecting the exterior crank to said plate, whereby the plate is adapted to be swung by angular movement of the interior crank.

1,396,170. PNEUMATIC TIRE. WILLIAM H. SIMMS, Chelsea, Mass., assignor to Simplex Pneumatic Tire Company, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 1, 1920. Serial No. 407,468. 3 Claims. (Cl. 152—10.)



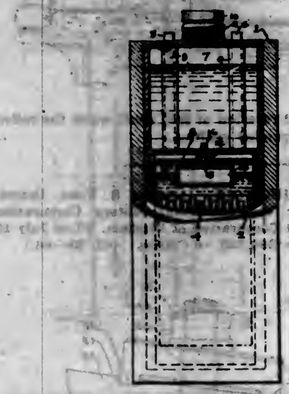
1. A pneumatic tire comprising an outer shoe made upon the inner side of its tread portion with an annular channel extending throughout the circuit thereof, the side walls of said channel each being made with a series of pockets; an inner tube within said shoe, and a plurality of separate filler members disposed in a circular series within said channel between said inner tube and the tread portion of said shoe, each of said members being seated in two oppositely disposed pockets of the side walls of said channel.

1,396,171. WRENCH ATTACHMENT. FRANK ETTINGER, Los Angeles, Calif. Filed Mar. 30, 1921. Serial No. 456,955. 2 Claims. (Cl. 81—171.)



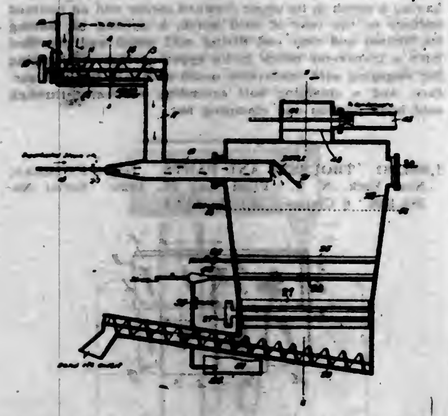
1. In a wrench having a movable jaw, in combination with the adjusting screw of such a movable jaw, a locking member pivotally engaged with the wrench to swing in a plane parallel to the longitudinal axis of the device having means to prevent a turning of the said adjusting screw and having other means for holding the locking member in desired positions.

1,396,172. STORAGE BATTERY. RALPH G. FEAR, Oakland, Calif. Filed Feb. 7, 1920. Serial No. 356,921. 2 Claims. (Cl. 204—29.)



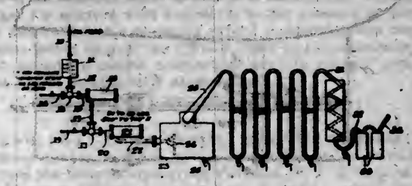
1. In combination with a storage battery; a reservoir for liquid; automatic means for feeding said liquid from said reservoir into said battery; according to a definite level in said battery.

1,396,173. PROCESS AND APPARATUS FOR TREATING OIL-BEARING SOLIDS. JAMES T. FENTON, Salt Lake City, Utah. Filed Dec. 13, 1920. Serial No. 430,259. 7 Claims. (Cl. 196—21.)



1. A process of treating shale and like material in a finely divided or granular condition which comprises injecting the same by superheated steam under pressure into an expansion chamber, subjecting the material, while being thus injected and while in mass in the chamber, to a further treatment with superheated steam which acts on the finely divided material while entering and through the granular mass in the chamber, continuously condensing the resulting vapors and continuously withdrawing the barren solids.

1,396,174. APPARATUS FOR CRACKING AND DISTILLING OILS. JAMES T. FENTON, Salt Lake City, Utah. Original application filed May 1, 1920, Serial No. 378,216. Divided and this application filed Jan. 21, 1921. Serial No. 438,977. 5 Claims. (Cl. 196—13.)



1. Apparatus for cracking oil comprising a source of superheated steam, a source of oil to be cracked, a cracking chamber, an injector connected with the sources of oil and steam where the oil and steam are first mixed and which delivers to the cracking chamber, a separator and expansion chamber of greater area than either cracking chamber connected with the cracking chamber, a condenser connected with the separator and expansion chamber into which the cracked constituents are forced by the pressure produced by the steam injected into the cracking chamber, and means for drawing off from the separator the remaining constituents of the oil.

1,396,175. HEADREST FOR CHAIRS. CHARLES W. FRETTS and ADAM J. MAY, Rochester, N. Y., assignors to Laura A. Brown and Adelina Ritter Shumway, trading as Ritter Dental Manufacturing Company, Rochester, N. Y. Filed Oct. 12, 1917. Serial No. 196,103. 5 Claims. (Cl. 155—177.)



1. In a head rest for chairs, the combination of supporting means provided with spaced bearings, a rocking carrier pivotally supported in said bearings, spaced pads supported for rotary adjustment about fixed pivots on the carrier and each having a marginal outline comprising a substantially circular portion concentric with said pivot and also an eccentric portion, and spring controlled means for yieldably supporting each pad in its positions of rotary adjustment.

1,396,176. JOINT FOR AEROPLANE WINGS. ANTHONY HERMAN GERARD FOKKER, Amsterdam, Netherlands. Filed Feb. 17, 1921. Serial No. 445,732. 5 Claims. (Cl. 244—31.)

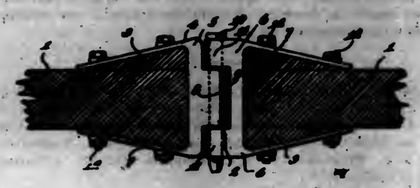
1. In an aeroplane wing, beam members arranged with their ends spaced apart and provided with longitudinal

spaced slots forming laminations between said slots, and a coupling device between the ends of the beam members



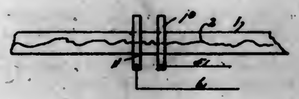
and having spaced laminations arranged in the slots thereof.

1,396,177. JOINT FOR AEROPLANE-WINGS. ANTHONY HERMAN GERARD FOKKER, Amsterdam, Netherlands. Filed Feb. 17, 1921. Serial No. 445,783. 3 Claims. (Cl. 244—31.)



1. In an aeroplane wing joint, a wooden member having wedge-shaped contiguous ends, and a metallic coupling device between said ends of said wooden member and having wedge-shaped recesses in which said ends are fitted.

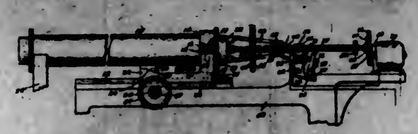
1,396,178. SOUND-TRANSMITTING APPARATUS. EARL H. FOLEY, Seattle, Wash. Filed Aug. 19, 1915. Serial No. 46,235. 1 Claim. (Cl. 179—100.1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



In a device of the class described, the combination of a continuous flexible record having a current conducting graph of sound waves upon it and means for reproducing the said sound waves from the record, said means including a current conductor of minimum resistance and one of high resistance arranged in parallel positions adjacent one side of said graph, a high resistance receiver, a source of current, connections between said conductors and source, the said source being connected in closed relation with said receiver by the current conducting graph, whereby the intensity of the current is varied by the changing position of the graph line.

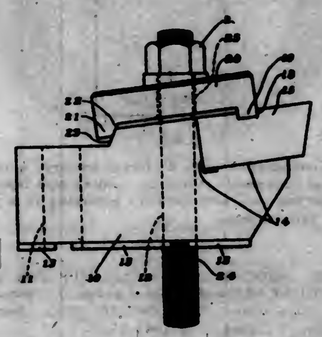
1,396,179. LINED-PIPE-FLANGE-FORMING MACHINE. PATRICK A. FOLEY, Milton, Mass. Filed Feb. 5, 1919. Serial No. 275,253. 9 Claims. (Cl. 153—81.)

3. A pipe-flange forming machine, comprising an operating shaft, a plurality of flange-forming rollers rotatable therewith having one end pivoted to said shaft and means actuated by said shaft to expand said rollers arranged to



admit of continued rotation of said shaft when the rollers are in a fully expanded position.

1,396,180. CUTTING-TOOL. ARTHUR R. FOSS, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a Corporation of Virginia. Filed July 15, 1920. Serial No. 396,399. 6 Claims. (Cl. 29—96.)



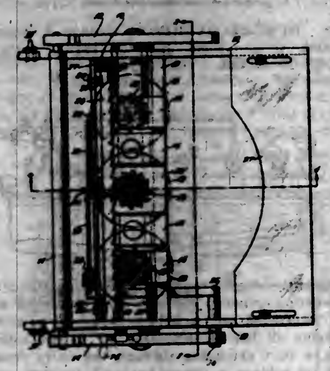
1. In a cutting tool, the combination of a body portion having a notch in its upper forward corner and an inclined surface to the rear of said notch, a cutting bit having its bottom and rear end fitting said notch and provided with a transverse notch in its upper surface, a clamping bar engaging said transverse notch and said inclined surface, and a clamping bolt extending vertically through said body portion and clamping bar.

1,396,181. TROUSERS AND PANTS. LOUIS FRIEDMAN, New York, N. Y. Filed May 25, 1920. Serial No. 384,106. 6 Claims. (Cl. 2—142.)



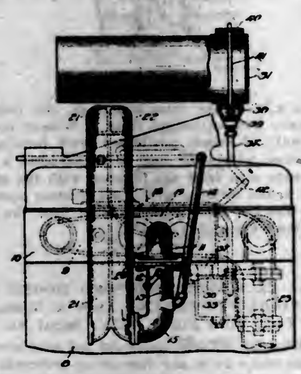
1. Pants or trouser construction embodying leg sections united at the back of the trousers by a seat seam passing through the leg sections at a distance from the edges thereof to provide marginal extensions folded back upon the leg sections of which they form a part, and waistband sections sewed to the leg sections and provided at the medial line of the back of the trousers with extensions folded back on the waistband sections of which they form a part and occupying a position between the waistband sections and the leg sections proper, whereby the waistband proper of the trousers conceals its extensions, as well as the upper portions of the extensions of the leg sections.

1,396,182. PRINTING-PRESS. LOUIS FRIEDMAN, New York, N. Y. Filed Dec. 29, 1920. Serial No. 433,778. 7 Claims. (Cl. 101—208.)



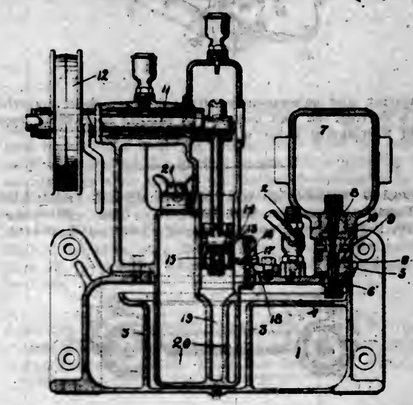
2. A printing press embodying a plurality of ink plates, a ratchet fixed with respect to each plate and associated therewith, a plurality of movable members, one of which serves as a support for each plate and on which the plates are rotatably mounted, guiding means on which the movable members are mounted for sliding movement, screws mounted for rotation in the frame of the press, but fixed against longitudinal movement, each of which screws threads into one of the movable members, whereby the rotation of the screws effects sliding movement of the movable members to adjust the plates relative to one another, and common means coöperating with the ratchets of all the plates for imparting step by step rotation thereto.

1,396,183. INTERNAL-COMBUSTION ENGINE. TRUMAN B. FUNK, Moline, and WALTER L. CARVER, Rock Island, Ill., assignors to Moline Plow Company, Moline, Ill., a Corporation of Illinois. Filed Sept. 10, 1917. Serial No. 190,552. 2 Claims. (Cl. 123—25.)



1. In a device of the class described, the combination with an internal combustion engine having an exhaust manifold on one side of the cylinder block, an exhaust delivery pipe, and a carbureter on the other side of the cylinder block, of a water pot in contact with the exhaust pipe and heated thereby for the generation of steam or vapor, means for maintaining a substantially constant level of water within such pot, a mixing jacket surrounding the exhaust manifold, there being a connection for the delivery of steam from the pot to said mixing jacket, a U-shaped connection for delivering air from the carbureter side of the cylinder block up over said block to the mixing jacket for mixture with the steam in the presence of the hot manifold, and a U-shaped return connection from the mixing jacket up over the cylinder block to the carbureter, both of said U-shaped connections being in contact with each other, substantially as described.

1,396,184. CARBURETER. FREDERICK M. FURBER, Revere, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 3, 1916. Serial No. 107,344. 9 Claims. (Cl. 261—12.)



1. In a machine of the class described, an evaporating chamber and a gas compressor located in said chamber whereby some of the heat of compression may be utilized to produce a substantial rise in temperature in the liquid in the evaporating chamber.

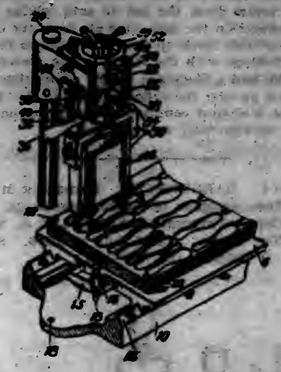
3. In a machine of the class described, an evaporating chamber, and a gas compressor constructed and arranged to develop pressures substantially greater than atmospheric, and having through its walls thermal communication with the evaporating chamber, whereby some of the heat developed in the compression may be utilized to heat the liquid in the evaporating chamber.

9. In a machine of the class described, a low pressure hydrocarbon chamber, a cylinder extending into said chamber, a piston in the cylinder to compress air therein, an outlet pipe from the cylinder leading into the hydrocarbon chamber, the cylinder, piston and pipe being constructed and arranged to stand pressures of several atmospheres, and a relief valve in said pipe permitting escape of air when the pressure in the chamber has reached a predetermined point.

1,396,185. METHOD OF CUTTING BLANKS FROM SHEET MATERIAL. FREDERICK M. FURBER, Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 19, 1918. Serial No. 250,496. 15 Claims. (Cl. 164—17.)

1. That improvement in methods of cutting blanks from sheet material for shoe bottom parts which comprises positioning sheet material to serve as a cutting bed in taking the thrust of the cutter, superimposing upon said

cutting bed sheet material for a plurality of blanks performing cutting operations upon said superimposed sheet



material, and subsequently utilizing other sheet material as a cutting bed and performing cutting operations upon said first-named sheet material.

1,396,186. SPEED-INDICATOR FOR MOTOR-VEHICLES. FLORINDA GARDNER, Salt Lake City, Utah. Filed Apr. 20, 1920. Serial No. 375,389. 1 Claim. (Cl. 264—1.)



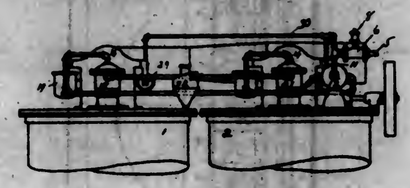
In a speed indicator for motor vehicles, the combination with a speedometer, of a housing detachably applied to and extending forwardly from said speedometer, a source of light within said housing, there being a glazed opening formed in the wall of said housing below and to one side of said source of light, a translucent dial plate arranged in the front of the housing, said speedometer including a shaft that extends through the center of the dial plate, an opaque pointer carried by the forward end of said shaft and positioned immediately in front of said dial plate, and the central portion of said dial plate being distinctively colored.

1,396,187. RIFLING-HEAD. GUSTAVUS GARROW, Watervliet, N. Y. Filed Dec. 22, 1919. Serial No. 347,050. 13 Claims. (Cl. 90—28.1.)



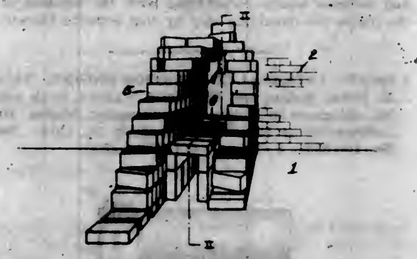
1. A reciprocable rifling head carrying radially movable tool-supporting slides; mechanism for progressively advancing said slides in the course of the forward travel of the head, including a cam member telescopically carried by said head, and means for arresting movement of said cam member at a predetermined point in the forward movement of said head; and means for locking said cam member to said arresting means prior to, and for a period after, the commencement of the rearward movement of the head.

1,396,188. DUST-RECOVERING. GEORGE A. GIESELER, Cleveland, Ohio. Filed July 5, 1919. Serial No. 308,726. 10 Claims. (Cl. 183—84.)



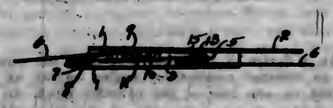
1. In dust recovering apparatus, a plurality of filter units, operating cylinders for each unit, means for mixing oil and compressed air, a hollow tapered valve, means for supplying oil laden compressed air to the hollow of the valve, a port extending through the valve from the hollow to its surface, a casing having a tapered seat for the valve, ports in the casing each connecting with the cylinders of one unit, means for rotating the valve for causing the port in it to register with the ports in the casing in succession, and means for recovering oil from the exhaust air from the cylinders so that the air entering the filters during cleaning may be substantially free from oil.

1,396,189. ARCH-PROTECTOR FOR CLAMP-KILNS. FREDERICK GLECKLER, Oak Harbor, Ohio. Filed Apr. 25, 1921. Serial No. 464,329. 5 Claims. (Cl. 25—147.)



1. In a kiln of the class described, the combination with a ware arch extending from a furnace opening in the kiln wall, of loosely positioned brick forming a sub-arch or tunnel within the ware arch, extending a distance into the ware arch from the furnace, with the spaces between the bricks forming lateral distributing openings for the flame and hot gases of combustion from the sub-arch and into the ware arch.

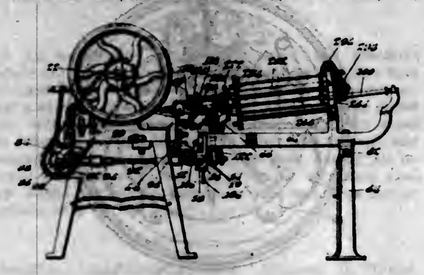
1,396,190. PACKAGE-BINDER AND HOOKS THEREFOR AND RECORD-CHECK. AMOS A. GLISSON, Fort Worth, Tex. Filed July 9, 1921. Serial No. 483,501. 6 Claims. (Cl. 24—23.)



1. A tubular locking device having means therein for securing and holding the ends of a band or strap thrust

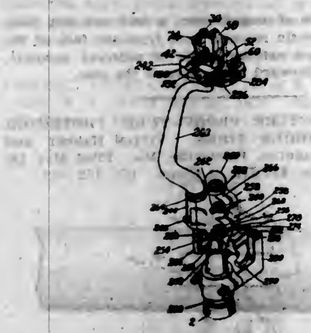
therein and spaces on the exterior for identifying numbers and letters and having a flat extension from one side and perforated at the juncture with said tubular device and having space for numbers and letters which are duplicates of the numbers and letters on said tubular device.

1,396,191. BLANK-FEEDING MECHANISM. GEORGE GOODU, Winchester, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 18, 1917. Serial No. 169,562. 102 Claims. (Cl. 10—174.)



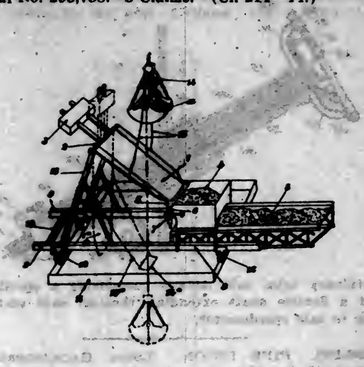
2. In combination with cutters for severing nails from a strip movable in a single path, means for presenting the strip to the cutters at consecutive operations of the cutters with a tapered portion of the strip disposed in the field of operation of the cutters in different angular relations to the cutters, and normally inoperative mechanism rendered operative under the control of a strip in the presenting means to supply a fresh strip to the presenting means.

1,396,192. WORK-SUPPORT. GEORGE GOODU, Winchester, and FRED L. MACKENZIE, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Dec. 18, 1916, Serial No. 137,571. Divided and this application filed May 3, 1919. Serial No. 294,479. 19 Claims. (Cl. 1—41.)



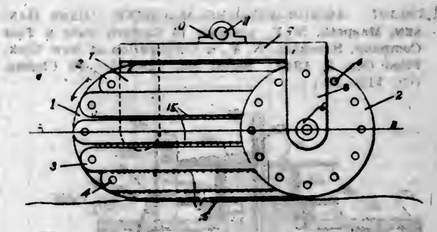
1. A machine for inserting metallic fastenings, having a horn operative to support the work while the machine inserts fastenings therein and provided near its tip with a clenching cavity, a support by which the horn is rotatably carried with its axis of rotation permanently in alinement with the line of drive of the fastenings, and means for adjusting the horn with reference to its axis of rotation to bring the clenching cavity into the desired relation to the line of drive after its displacement therefrom.

1,396,193. ELEVATOR, CONVEYER, AND CRANE. ADRIEN GODIN, Paris, France. Filed Apr. 30, 1919. Serial No. 293,758. 3 Claims. (Cl. 214—14.)



1. The combination with a hoisting apparatus embodying a vertically movable bucket and means for operating said bucket, of a conveyer located clear from the vertical path of travel of the bucket, means for supporting said conveyer so that it may be shifted horizontally in all directions, for instance for the purpose of clearing a water way, and a receiving device adapted to either receive the material dropping from the bucket and discharge the same onto the conveyer or clear the vertical path of the bucket when the latter has discharged its contents.

1,396,194. FLAT-WHEEL TRACTOR. EDWIN J. GOULD, Oakland, Calif., assignor of one-tenth to R. M. Brooks, San Francisco, Calif. Filed July 28, 1920. Serial No. 399,558. 4 Claims. (Cl. 305—11.)



1. The combination in a flat wheel tractor, of two wheels, bearing studs extending from one face of each wheel, traction bars extending diagonally from the face of one wheel to the adjacent face of the other wheel, being pivotally attached to said bearing studs, hubs extending from the center of said wheels on their sides opposite to the bearing studs, standards in which said hubs are revolubly mounted, and a frame solidly connecting said standards, all substantially as set forth.

1,396,195. STEERING-COLUMN. BERTRAM J. GRIGSBY, Park Ridge, Ill. Filed Sept. 26, 1919. Serial No. 326,643. 3 Claims. (Cl. 180—78.)

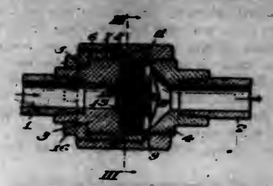
1. In a device of the class described, the combination of a stationary tube, a rotatable tube supported by said stationary tube, said tubes being disposed in concentric relation, a steering wheel connected with the upper end

of said rotatable tube, an instrument board carrying indicating devices mounted on the upper end of said



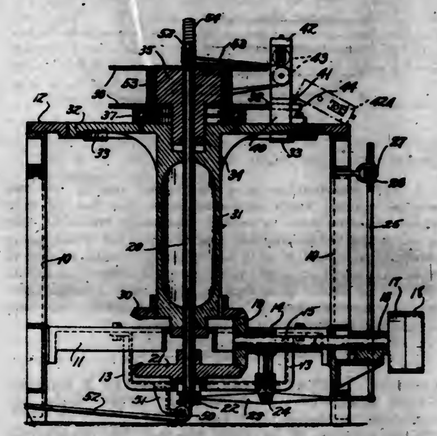
stationary tube, said devices comprising a speedometer and a flexible shaft extending through said stationary tube to said speedometer.

1,396,196. PIPE-UNION. LOUIS HACHENBERG, New York, N. Y. Filed Mar. 17, 1920. Serial No. 366,681. 8 Claims. (Cl. 284—11.)



5. A union for two adjacent pipe sections including a collar having a screw-threaded engagement with both pipe sections, and a valve movable with the collar to automatically close or open one of the pipe sections as the collar is unscrewed from or screwed on to the other pipe section.

1,396,197. ARMOR-WINDING MACHINE. HANS HANSEN, Maspeth, N. Y., assignor to Eastern Tube & Tool Company, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 3, 1919. Serial No. 328,241. 10 Claims. (Cl. 113—35.)



1. An armor winding machine comprising a rotary spindle, a rotary disk concentric with the spindle, a strip reel rotatively mounted in axial alinement with the spindle, means for driving the spindle and the disk in opposite directions, and a pair of strip crimping rolls adapted to have fixed or moving relation with said reel and mounted to travel with the disk.

1,396,198. MEANS FOR REGULATING TIMEPIECES AND THE LIKE. VIRGIL S. HARSEY, Chicago, Ill. Filed Feb. 26, 1921. Serial No. 448,527. 10 Claims. (Cl. 58—110.)



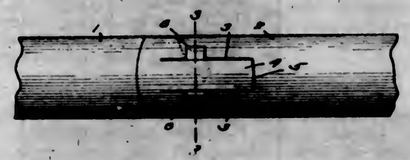
2. In combination, a driving mechanism, means for controlling the speed of said driving mechanism, an arm for manually regulating said controlling means, a thermostat interposed between the controlling means and said arm for automatically adjusting said controlling means upon a change in temperature, manual regulation of the controlling means being had through said thermostat.

1,396,199. TYPE-CABINET AND EQUIPMENT THEREFOR. MORRIS C. HARRIS, San Jose, Calif. Filed Feb. 25, 1919. Serial No. 279,213. 5 Claims. (Cl. 211—41.)



2. As an article of manufacture, a lead and slug case, compartments therein recessed back from the face of the case in pairs, and exterior walls of adjacent compartments extending forward to the face of the case.

1,396,200. PUNCTURE-PROOF-TUBE PROTECTOR FOR AUTOMOBILE-TIRES. VIVIAN HARVEY and CHARLES D. HARDING, Platteville, Mo. Filed May 18, 1921. Serial No. 470,632. 1 Claim. (Cl. 152—18.)



An annular metal tire tube protector, semi-circular in cross section and adapted to fit smoothly over the inner tube of the tire, the protector having a joint formed on interlocking ends, said joint consisting of a longitudinal tongue formed of an approximately U-shaped slot in one end of the tube protector and a short T-shaped tongue having the free ends of said tongue inserted through the slots of the other end of the tube, whereby to form an entirely smooth flexible joint free from projections to injure the inner tube and arranged substantially as shown

1,396,201. AUTOMOBILE-BUMPER. CHARLES H. HATHAWAY, Milwaukee, Wis., assignor to Badger Manufacturing Corporation, Milwaukee, Wis., a Corporation of Delaware. Filed Jan. 3, 1921. Serial No. 434,724. 13 Claims. (Cl. 293—55.)



6. An automobile bumper comprising two similarly formed flat vertically rigid and horizontally resilient bars arranged in spaced relation in substantially the same vertical plane and forming a broad and relatively long closed loop, each bar extending from an end of the loop along one side thereof and beyond the other end thereof, and terminating in an integrally formed loop having an inturned arm for connection to a bumper attaching arm, and means for rigidly fastening the bars together at opposite ends of the loop.

1,396,202. DRAFT-EQUALIZER. WILLIAM O. HEATH, Stafford, Kans. Filed Oct. 9, 1920. Serial No. 415,762. 2 Claims. (Cl. 278—6.)



2. In a draft equalizer, a pair of main equalizing beams having offset parts, said offset parts being overlapped, each of said equalizing beams at a point remote from the offset portions adapted to be connected to a ridge breaking machine, an equalizing beam connecting the overlapping parts and having a loop, a swingle tree carried by the connecting beam, double trees carried by the remote ends of the main equalizing beams, and swingle trees carried by the double trees.

1,396,203. SPORT-COSTUME. MARY E. HEINRICH, Freeport, N. Y. Filed May 21, 1921. Serial No. 471,302. 5 Claims. (Cl. 2—139.)



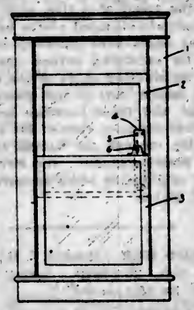
1. In a sport costume, the combination of knickerbockers, a belt adapted to be detachably secured at the top thereof and removable therefrom, and panels secured to said belt to hang down over the knickerbockers, said knickerbockers and panels having coacting means for securing the upper portions of the panels to the knickerbockers, to permit the lower portions of the panels to hang free.

1,396,204. COLLAR. JOHN W. HESS and FRANK S. HOGKINS, Kitchener, Ontario, Canada, assignors to Cluett, Peabody & Co., Inc., Troy, N. Y. Filed Feb. 10, 1920. Serial No. 357,544. 1 Claim. (Cl. 2—69.)



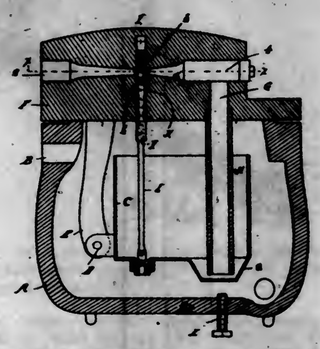
A collar having two alined button holes formed in each end of its band extending substantially parallel to and close to the lower edge of the band, a button secured to one end of the band close to the upper edge thereof, and two button holes formed in the opposite end of the band with which said button may be engaged, said button holes being inclined to the upper edge of the band and having their spacing small relative to their length.

1,396,205. VENTILATING-SASH FASTENER. SAMUEL F. HILL and JOHN W. COCHRAN, Indianapolis, Ind. Filed Jan. 20, 1921. Serial No. 438,698. 4 Claims. (Cl. 292—60.)



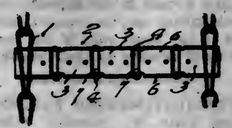
1. The combination with the upper and lower sashes of a window structure, of a plate secured to one of said sashes and having sockets therein at a point beyond the edge of the sash, one end portion of said socket being round and the other end portion elongated, a housing secured to the other sash having sockets shaped similar to the sockets in the plate, a bolt adapted to fit the round portion of said sockets, and a laterally extending lug at the free end of said bolt adapted to fit the elongated portion of the sockets, the lug being adapted to enter within said housing and hold the end of the bolt out of the path of the upper sash when the lug is turned out of registration with the socket in the housing and adapted to pass through the sockets of said plate for securing the two sashes against movement independent of each other.

1,396,206. STEAM-TRAP. HARRY J. HINCHEY, Atlanta, Ga., assignor to Wright-Austin Company, Detroit, Mich., a Corporation of Michigan. Filed Aug. 2, 1919. Serial No. 314,943. 5 Claims. (Cl. 137—103.)



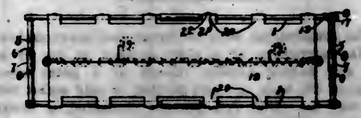
1. In a steam trap, the combination with the water chamber of a return passage therefrom, a Venturi tube in said return passage and a valve at the throat of said Venturi tube.

1,396,207. ANTISKID DEVICE. GEORGE HOAS, Union Grove, N. Y. Filed Mar. 25, 1920. Serial No. 368,804. 1 Claim. (Cl. 152—14.)



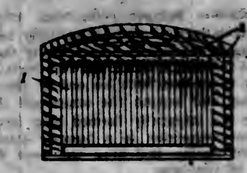
An anti-skid device comprising means to extend transversely across the tread of a tire, said means including a plurality of arcuate stamped plates having their opposite longitudinal edges bent laterally outward to form flanges, the latter extending beyond one of the ends of the plates and terminating short of the other end of the plates, the last named ends of the plates being rolled to provide bearings, and these bearings being disposed between the adjacent extended ends of the aforesaid flanges; pivot pins passing through the flanges and said bearings to connect the plates together; and circumferential side chains, links of said chains being anchored to the flanges of the endmost plates.

1,396,208. STRETCHER. MORRIS V. HUBBARD, San Jose, Calif. Filed Nov. 26, 1920. Serial No. 426,618. 2 Claims. (Cl. 5—70.)



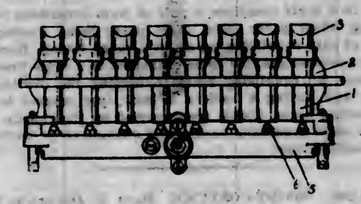
1. A stretcher of the class described, comprising in combination a pair of side members, said side members each being divided longitudinally at a central point thereof, a pair of coupling members for connecting the divided ends of said side members, a pair of cross members for connecting the similar ends of said pair of side members, said cross members each being longitudinally divided at a central point thereof, coupling means for rigidly connecting the divided ends of said cross members, a pin extending from each end of the cross members, and adapted to extend through openings formed in the ends of said side members, and said pins each having an annular groove formed at its outer end, and a slotted plate slidably mounted on the side members for each pin, and adapted to engage in the annular groove thereof and hold the side members to the cross member.

1,396,209. PROCESS OF MAKING FIREBACKS FOR GAS-STOVES. ALFRED H. HUMPHREY, New York, N. Y., assignor to General Gas Light Company, Kalamazoo, Mich. Filed May 3, 1920. Serial No. 378,587. 3 Claims. (Cl. 18—48.8.)



1. The process of making gas stove firebacks having a raised or flange-like portion, comprising molding the fireback of a plastic clay composition, superimposing on the said raised portion a plastic sheet of the same clay composition having alternate transverse strips of portions thereof colored with an oxid coloring material, the clay composition having a fine granular material adapted to be destroyed by the subsequent firing step pressing the superimposed sheet upon the plastic molded body so that the sheet becomes an integral part thereof, and firing.

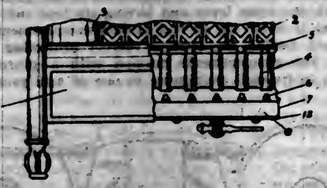
1,396,210. GAS-BURNER. ALFRED H. HUMPHREY, New York, N. Y. Filed June 12, 1920. Serial No. 388,611. 7 Claims. (Cl. 158—106.)



1. In a gas burner, the combination of a burner body comprising a plurality of burner tubes open at their lower ends and having burner tips provided with bars disposed in a uniformly spaced relation, said tubes being unobstructed from end to end, a gas delivery manifold, a valve for said manifold, and gas delivery nozzles therefor having oblong slot-like delivery orifices delivering forked streams of gas into the open ends of said burner tubes when the valve is adjusted to restrict the flow of gas through the nozzles, the space between the manifold and the burner tubes being unobstructed to permit a free circulation of air.

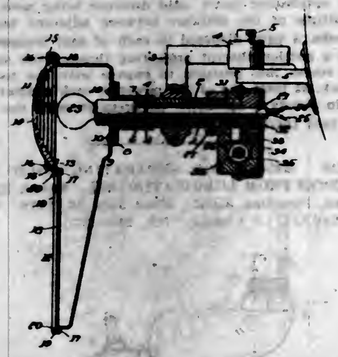
1,396,211. GAS-BURNER. HUBERT R. HUMPHREY, Kalamazoo, Mich. Filed Aug. 3, 1920. Serial No. 400,948. 10 Claims. (Cl. 158—105.)

1. The combination of a multiple burner comprising independent burner tubes and burner tips, a gas delivery manifold having nozzles delivering to said burner tubes, said manifold being provided with a longitudinally disposed zig-zag partition dividing it into chambers with alternate nozzles opening into each, a gas supply valve comprising a casing having separate ports opening into said manifold chambers and a gas supply connection at one end, and a rotary valve having a longitudinal passage communicating with said supply connection and ports adapted to simultaneously register with said casing ports,



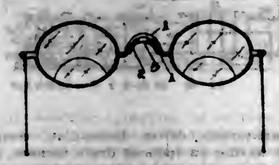
one of said valve ports being shaped so that it is fully opened before and remains fully open when the other is open.

1,396,212. VEHICLE-SIGNAL. HERBERT H. HUNT, Oakland, Calif. Filed Mar. 3, 1919. Serial No. 280,309. 3 Claims. (Cl. 116—49.)



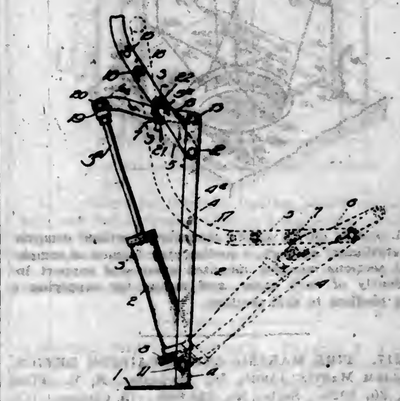
1. A vehicle signal including a bearing mounted horizontally on the rear of the vehicle, a horizontal shaft journaled in said bearing, a tail lamp secured on the rear end of said shaft, an indicator extending from said tail lamp through which indicator the light of said tail lamp projects, a swivel joint secured on the forward end of said shaft, a bevel gear on the forward end of said shaft, a vertical shaft journaled in said swivel joint, a bevel gear on the upper end of said vertical shaft meshing with the bevel gear on said first shaft, a third shaft journaled in said swivel joint, a bevel gear on the lower end of said vertical shaft, a bevel gear on the inner end of said third shaft meshing with the bevel gear on the lower end of said vertical shaft, a flexible shaft connected to the outer end of said third shaft, and means on the front of the vehicle for turning said flexible shaft to rotate said tail lamp and indicator.

1,396,213. SPECTACLE-FRAME. THOMAS B. JEBB, Orillia, Ontario, Canada. Filed Apr. 19, 1921. Serial No. 462,699. 5 Claims. (Cl. 88—43.)



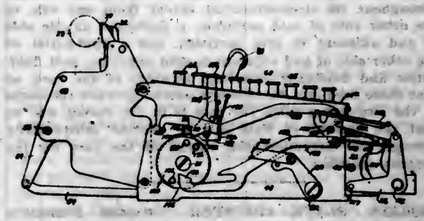
1. The combination with a spectacle frame provided with a bridge of a supplemental bridge piece having a laterally extending pivot at each of its ends, said frame bridge being provided with holes to receive said pivots, one of said bridges having a depression into which a part of the other bridge may spring to tend to retain the supplemental bridge in a lowered position relative to the frame bridge.

1,396,214. PUMP. LAWRENCE H. JENSEN, St. Charles, Ill. Filed Feb. 14, 1920. Serial No. 358,657. 10 Claims. (Cl. 230—27.)



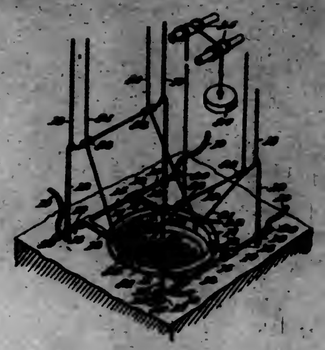
1. In a pump comprising a cylinder having a piston therein and a rod for operating the piston, the combination of a pivotally mounted support, a lever connecting said support with said piston rod, and an arm pivotally connected with said support at a point between the pivotal connection of said lever therewith and the pivoted end of the support, and a sliding connection between said operating arm and said lever.

1,396,215. CLEAR-SIGNAL-PRINTING MECHANISM FOR LISTING-MACHINES AND THE LIKE. OLIVER D. JOHANTGEN, Chicago, Ill., assignor to Victor Adding Machine Co., Chicago, Ill., a Corporation of Illinois. Original application filed Jan. 4, 1918, Serial No. 210,301. Divided and this application filed Nov. 25, 1919. Serial No. 340,581. 9 Claims. (Cl. 235—60.)



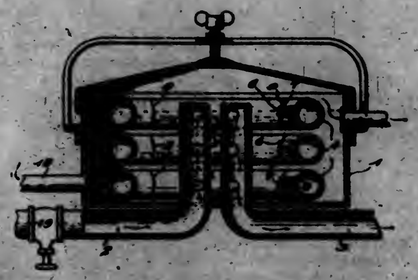
6. In a listing machine or the like, in combination, item and total printing elements, an accumulator, devices cooperating with the accumulator and controlling the item and total printing elements, and a signal printing device operable only during item printing and when the accumulator is clear and being prevented from operation at other times by the accumulator elements.

1,396,216. COOLING DEVICE FOR GLASS-DRAWING APPARATUS. Walter A. Jones, Columbus, Ohio. Filed Oct. 19, 1918. Serial No. 258,782. 18 Claims. (Cl. 49—17.)



1. A cooling device of the character described comprising a stationary support, a cooling ring formed of complemental sections movably mounted upon said support independently of each other, and means for supplying a cooling medium to said sections.

1,396,217. TIRE MAKING AND REPAIRING DEVICE. William Martin Jones, Jr., Rochester, N. Y. Filed Jan. 30, 1920. Serial No. 355,063. 15 Claims. (Cl. 18—45.)



1. A tire vulcanizing core, a tubular annulus having a partition therein and having a continuous passage throughout its circumferential extent from one side to the other side of said partition, a fluid-inlet at one side of and adjacent to said partition, and a fluid-outlet at the other side of and adjacent to said partition, said fluid-outlet and fluid-inlet extending inwardly of the core, so that those fluid carrying elements extend between the beads of the tire-casing when the core is in the casing, and so that the current of fluid can be effected substantially through the circumferential extent of the core for the purpose specified.

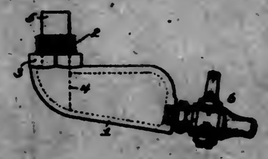
1,396,218. SLACK-ADJUSTER. Charles Frederick Kahler, Chicago, Ill. Filed Apr. 5, 1920. Serial No. 371,407. 2 Claims. (Cl. 188—200.)

1. The combination in a slack-adjuster for car brakes of two brake levers, means for operating one of said levers, a casing pivoted at one end to one of said levers, said casing being formed to provide a pair of parallel compartments, each open at its free end and each formed with an inner wall thereof serrated to provide similar racks, a bar having one end pivoted to the other of said levers and having its free end portion arranged to enter one of said compartments, the second bar having one end loosely pivoted to said second named brake lever at a predetermined distance above the point of connection of said first named bar with the same lever and having its free end portion arranged to enter the second of said compartments, said bars each having the portion thereof projecting within one of the compartments formed with a plurality of recesses in its wall contiguous to one of said racks, said



recesses having reduced openings therethrough and being spaced equidistant apart, said distance being more than the multiple of the distance between adjacent teeth in said racks, a pawl disposed in each of said recesses and having a portion thereof projecting through the opening to the recess into position to engage with the teeth of said rack, at least one of the pawls in each compartment being in constant operative engagement with the teeth of the rack therein.

1,396,219. MEANS FOR SEPARATING SOLID SUBSTANCES FROM LUBRICATING-OIL. Frank Eugene Kehne, Pasadena, Calif. Filed July 22, 1918. Serial No. 246,811. 5 Claims. (Cl. 210—57.)



1. A device of the character described, comprising a receptacle provided near one end with an upwardly extending nipple, and a partition in said receptacle, said partition extending through said nipple and upwardly beyond the same.

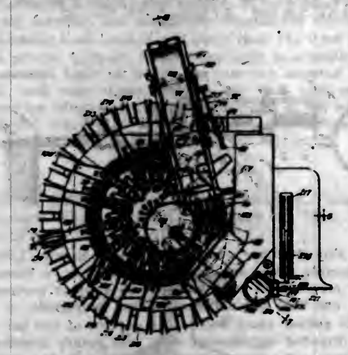
2. A device of the character described, comprising a receptacle provided near one end with an upwardly extending nipple disposed approximately at right angles to the body of the receptacle, and a partition in said end of said receptacle, said partition extending through the nipple and upwardly beyond the same.

1,396,220. STEAM-TURBINE-DRIVEN LOCOMOTIVE. Conrad Kohler, Zurich, Switzerland. Filed Sept. 28, 1920. Serial No. 413,350. 2 Claims. (Cl. 105—38.)



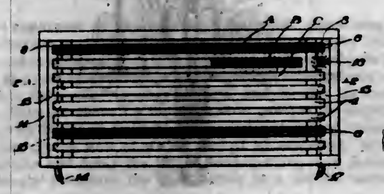
1. A steam-turbine driven locomotive, comprising a steam-boiler having an induced draft furnace, a surface condensing plant, an impulse steam-turbine arranged in the front part of the locomotive with its axis transverse to the direction of running, transmission gearing consisting of spur-gearings, an intermediate shaft and crank gear interposed between said steam-turbine and the driving wheels, a re-cooling device for cooling the water used for condensing purposes arranged behind the steam boiler, a device for effecting a rain-like distribution of the cooling water provided in said re-cooling device and shaped like a vaulted door structure the outline of which is within the railway clearance gage, a cooling channel formed by the interior of said vaulted door structure through which channel the cooling air current flows once in a longitudinal direction, and auxiliary steam driven power engines for driving the furnace blower, the boiler feed device and the pump used for condensing and re-cooling purposes, which auxiliary engines are arranged closely to the steam-boiler and for the greater part below its horizontal center plane whereby any flexible steam-conduits are avoided.

1,396,221. SORTING-MACHINE. Lester L. Ladd, Lockport, Ill., assignor to Photometric Products Corporation, Lockport, Ill., a Corporation of Delaware. Filed Oct. 27, 1920. Serial No. 419,848. 116 Claims. (Cl. 83—92.)



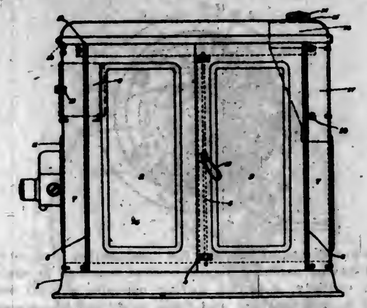
1. In a machine of the character described, a plurality of article carriers, a device for selecting the articles on said carriage and means operated by said selecting device whereby said carriers will deposit said articles at predetermined points to sort said articles in accordance with the selection of said selecting device.

1,396,222. OZONIZER. William G. Lindemann, Milwaukee, Wis., assignor to Ozone Company of America, Milwaukee, Wis., a Corporation of Delaware. Filed Apr. 25, 1919. Serial No. 292,740. 4 Claims. (Cl. 204—32.)



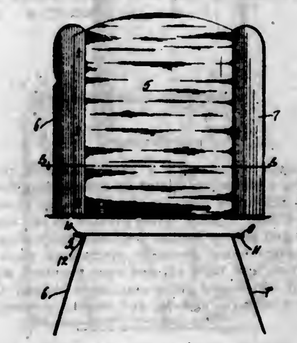
1. In an ozonising apparatus, an element comprising a screen conductor provided with a dielectric covering, the covering extending beyond the screen to form a dielectric border, a contact secured to the side of the element, and a conductor connecting the screen with the contact and covered by the dielectric.

1,396,223. CABINET FOR DOMESTIC LIGHTING PLANTS. Bert Arthur Linderman, Chicago, Ill. Filed May 19, 1920. Serial No. 382,515. 2 Claims. (Cl. 211—7.)



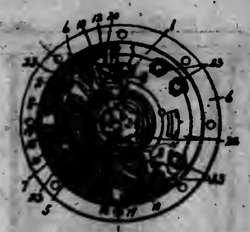
1. A cabinet for domestic lighting plants comprising a base, end frames secured thereto, a top having a hole therein, side doors, a radiator secured to the interior of the end frames and having a cap projecting through the hole in the top, a control box also attached to the interior of the frame and a lock for the doors.

1,396,224. DISPLAY-FOLDER. Francis X. List, New York, N. Y., assignor to National Card Mounting Company, New York, N. Y., a Corporation of New York. Filed Mar. 5, 1921. Serial No. 449,702. 3 Claims. (Cl. 40—146.)



1. A display easel of the character described comprising a main panel centrally disposed and having marginal portions lying in the same plane therewith, and a pair of laterally disposed side panels adapted to overlap one another at their free edges and to fold against said main panel when closed, the outer portions of said lateral panels being provided with marginal portions lying substantially in the same planes with the respective lateral panels when the same are in the closed position but extending angularly thereto when said lateral panels are opened, said lateral panels and their respective marginal portions having crease hinges formed therebetween on which the lateral panels may fold into and out of closed position with respect to the main central panel, said lateral panels when opened forming unbroken extension surfaces with the main central panel, and means passing through the marginal portions of the main panel and the marginal portions of said lateral panels for securing the same rigidly together.

1,396,225. DIFFERENTIAL GEARING. CHARLES H. LOGUE and DONALD D. ORMAN, Syracuse, N. Y. Filed Oct. 25, 1917. Serial No. 198,519. 3 Claims. (Cl. 74—99.)



1. In a differential gearing, the combination of a rotary support having radially coaxial conical bearings in spaced relation radially, a pinion having opposite conical ends engaged in said bearings, and gears meshing with opposite sides of the pinion, said gears and pinion having coöperative means for producing end thrust of the pinion when operated under unequal resistance.

1,396,226. POCKET TOBACCO-CAN. RICHARD S. LOGUE, Syracuse, N. Y. Filed Feb. 7, 1921. Serial No. 443,180. 4 Claims. (Cl. 206—41.)



1. The combination with a pocket tobacco can, of a cover having a plane top skirted by a depending flange, the top having a pouring opening and the flange thereof having a slot, a pair of plane gates pivoted to the under side of said top and having similar portions which play in said slot, said gates being partially overlapped when in the closed position and their pivoted ends provided with slots by means of which said gates may move toward and from each other during the opening and closing movements.

1,396,227. PROCESS OF RECOVERING USED PAPER. ROBERT A. MARR, Norfolk, Va. Filed June 11, 1920. Serial No. 388,359. 6 Claims. (Cl. 92—13.)

1. A process of recovering used print paper which comprises heating the used print paper with water, soft soap and ammonia to near the boiling point until at least a substantial portion of the oleaginous matter of the ink separates on the surface of the water, removing this separated matter, pulping the mass hot in a beater, until the paper is reduced to a pulp and continuing the operation of the beater until a further substantial part of the oleaginous matter, carrying the ink pigment, separates on the surface of the liquid, and removing such separated matter.

1,396,228. DESK-RECEPTACLE. ANNA MARTIN, Cincinnati, Ohio. Filed July 28, 1920. Serial No. 399,556. 5 Claims. (Cl. 45—90.)

1. In a receptacle the combination of a top strip adapted to be attached to a desk, arms extending from the top strip, brackets attached to the arms and extending downwardly therefrom and engaging the desk, means to attach



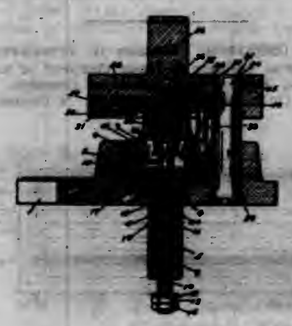
the top strip and brackets to the desk, and a shelf adapted to lie upon the brackets and engaging the desk on one edge.

1,396,229. WIRE-STRETCHER FOR PACKING-BOXES. GEORGE NETH, New York, N. Y. Filed Sept. 24, 1919. Serial No. 325,857. 5 Claims. (Cl. 254—67.)



1. A wire-stretcher comprising a bar, a wire holding slide movable along one portion of said bar, a threaded member mounted to turn adjacent to another portion of the bar but held against longitudinal movement, a second slide guided along such other portion of the bar and having threaded engagement with said rotary member, a longitudinal rod connecting the two slides, and means for operating said rotary member.

1,396,230. TRIMMING-DIE. JOHN B. PATTERSON, Newark, N. J. Filed Nov. 8, 1920. Serial No. 422,860. 10 Claims. (Cl. 164—18.)



1. A trimming die comprising a member having means to support an article thereon, and a member coöperating with said first named member in shearing relation therewith having motion in two different planes, in order to effect said shearing relation.

1,396,231. SEAMING MECHANISM. JOSEPH PETRAK, Mount Vernon, N. Y., assignor, by mesne assignments, to Ackermann Manufacturing Company, Wheeling, W. Va., a Corporation of West Virginia. Filed July 13, 1917, Serial No. 180,270. Renewed Feb. 5, 1921. Serial No. 442,892. 10 Claims. (Cl. 113—24.)



1. Seaming mechanism comprising: a seaming cam, a carrying member, one of said elements having a relative rotating movement with respect to the other, two seaming tools mounted diametrically opposite to each other on said carrying member, and means for successively moving the two seaming tools toward and away from the work including a pivotal support circumferentially intermediate the two seaming tools on which the carrying member swings bodily, and connections between the cam and carrying member for effecting a swinging movement of the latter on its pivotal support by the relative rotating movement of said cam and carrying member.

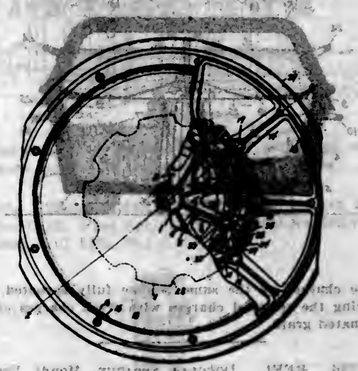
1,396,232. DEALCOHOLIZING APPARATUS. ROBERT H. PFLUGFELDER, Chicago, Ill. Filed Feb. 17, 1919. Serial No. 277,416. 1 Claim. (Cl. 195—12.)



An apparatus of the character described, comprising a tank having upright walls and a shelf secured at its outer edge along a helical line to the inner surface of said walls, said shelf being provided with transverse corrugations extending from edge to edge thereof, and having its inner edge disposed above its outer edge to provide in conjunction with the tank walls a substantially V-shaped channel the corrugated wall of which formed by said shelf serves to agitate and delay the liquid flowing along said channel to thereby facilitate the evaporation of a desired portion thereof.

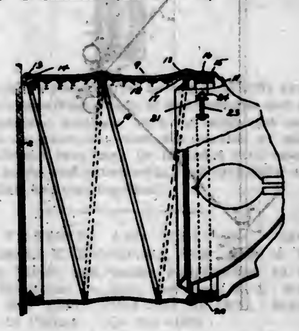
1,396,233. RESILIENT WHEEL. JOSEPH PRONOVOST, Detroit, Mich. Filed Feb. 10, 1920. Serial No. 357,571. 3 Claims. (Cl. 152—28.)

3. A resident wheel comprising a hub portion having a rim with integral spoke sections, with bosses having threaded recesses at the outer end of each spoke, bolts engaging said threaded apertures and having projecting ends, an outer rim section with integral apertured spokes, bolts passing through apertures in the rim section, clevis-shaped spring frames engaging over the projecting ends of bolts



upon the hub and rim sections and having sliding movements relative to each other and torsion springs carried by said frames and bearing against the ends thereof, said springs reversely arranged upon opposite sides of the wheel.

1,396,234. SPOTLIGHT CONSTRUCTION. EDWARD W. REIBER, Adrian, Mich. Filed Mar. 11, 1920. Serial No. 364,921. 8 Claims. (Cl. 240—7.)



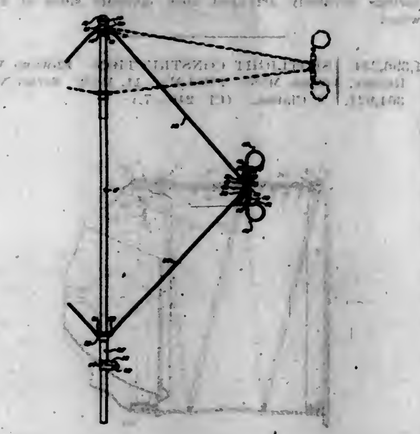
8. The combination with a wind-shield, of a projector in rear of and facing said wind-shield and a guard upon said projector for preventing the reflection past the projector of the light rays striking the wind-shield.

1,396,235. PROCESS FOR SPROUTING GRAIN. NILS A. RENSTROM, Omaha, Nebr.; Eros A. Renstrom administrator of said Nils A. Renstrom, deceased. Filed Nov. 9, 1917. Serial No. 201,385. 2 Claims. (Cl. 47—30.)

2. The method of producing batches of sprouted grain at successive substantially uniform time intervals, consisting in juxtaposing a series of charges of grain in uniformly different stages of germination, insulating the same against external temperature changes, periodically moistening the charges, maintaining an interspersed arrangement of the several charges whereby heat produced by

metabolism of the more advanced charges may radiate directly to the less advanced charges, removing the successive charges as the same become fully sprouted, and replacing the removed charges with fresh charges of ungerminated grain.

1,396,236. REEL. DOUGLAS SPRAGUE, Mount Vernon, N. Y. Filed Nov. 16, 1918, Serial No. 262,863. Renewed Feb. 7, 1921. Serial No. 443,220. 8 Claims. (Cl. 242—112.)



1. A device of the character described, comprising in combination, a carrier adapted to be attached to a primary support, holders for the material to be reeled or unreeled spaced around said carrier, and arms hingedly connected at their opposite ends to the latter and said holders, the connections on the carrier being such that the juxtaposition thereof folds the arms one within another and draws the holders toward the carrier, while their separation causes the arms with the holders to spread apart.

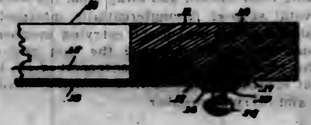
1,396,237. FLUID-PRESSURE SYSTEM. VINCENT V. VERSCHOOTEN, Erie, Pa. Filed Nov. 5, 1917. Serial No. 200,287. 21 Claims. (Cl. 103—91.)

19. The combination of two distinct sources of fluid pressure, a device arranged to be operated normally by both of said fluids acting simultaneously, and means for controlling the operation of said device by said fluids when



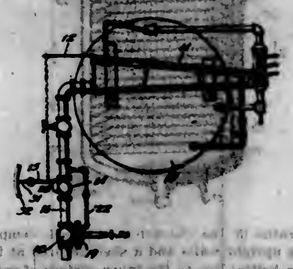
the difference between the pressures thereof reaches a predetermined amount.

1,396,238. FASTENING DEVICE. STUART G. WATT, Geraldine, Mont. Filed July 26, 1919. Serial No. 313,441. 1 Claim. (Cl. 85—41.)



A device for securing a fabric to a support comprising a metallic eyelet, prongs extending from the eyelet for insertion through the fabric to hold the eyelet in position, a fastening device passing through the eyelet for engagement with the support and flange carried by the fastening device for contact with the eyelet.

1,396,239. WATER-FLOW DEVICE. ROGER W. ANDREWS, Erie, Pa., assignor to Northern Equipment Company, Erie, Pa., a Corporation of Pennsylvania. Filed June 28, 1917. Serial No. 177,699. 12 Claims. (Cl. 103—85.)

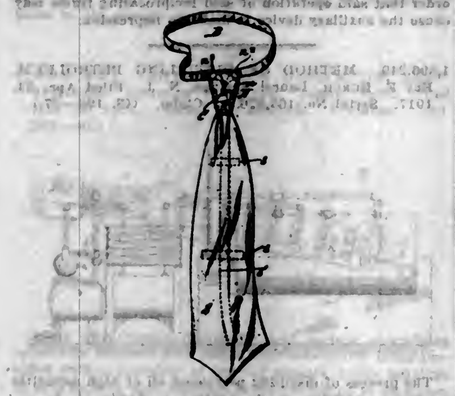


4. In a boiler feed-water system, a feed-water pipe, a valve in said pipe, means for varying the position of said valve depending upon the elevation of the water level in said boiler, and means for maintaining a constant excess pressure of water on one side of said valve in reference to the pressure on the other side of said valve.

1,396,240. NECKSCARF. ABRAHAM M. BAKERMAN, New York, N. Y. Filed Nov. 16, 1920. Serial No. 424,276. 1 Claim. (Cl. 2—88.)

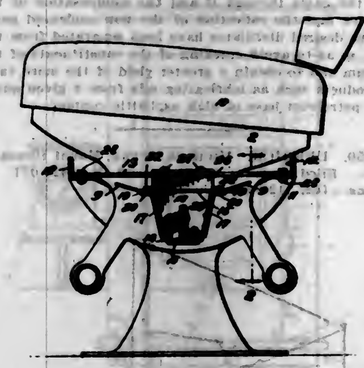
A neck scarf of the character designated, comprising a neck band and a noose segment consisting of a continuous tubular shell of elastic resilient material formed with an

arched top having lateral inlets for the strands of said neck band, and interlocking spring clamping jaws attached to opposite internal sides of said noose segment and



adapted to receive and adjustably secure the otherwise loose strands of the said neck band, for the purpose described.

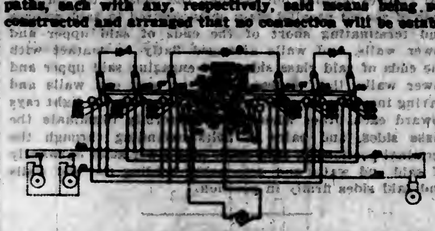
1,396,241. ELECTRIC HEATER. JOHAN R. BARSTAD, Chicago, Ill., assignor to Holden & White, Inc., Chicago, Ill., a Corporation of Illinois. Filed Oct. 7, 1920. Serial No. 415,291. 5 Claims. (Cl. 219—34.)



1. In combination, a car seat frame, cross bars extending between the front and back rails thereof and an electric heater for suspension from said cross-bars, said heater comprising a horizontally elongated perforated body casing having sides and ends which extend upwardly beyond said sides and are flanged to seat upon said cross bars, whereby the heater becomes suspended suitably below the car seat.

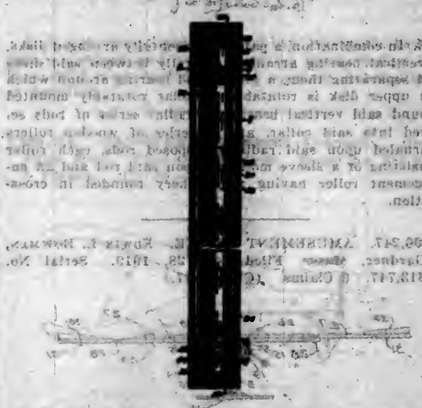
1,396,242. CONTROLLING SYSTEM FOR STORAGE BATTERIES. CLARENCE E. BEACH, Binghamton, N. Y. Filed Feb. 11, 1920. Serial No. 357,789. 18 Claims. (Cl. 171—314.)

8. Three secondary batteries, two discharge paths, one charge path, and means for connecting said batteries and



paths, each with any, respectively, said means being so constructed and arranged that no connection will be established between either of said discharge paths and said charge path incident to the operation of said means.

1,396,243. DEEP-OIL-WELL PUMP. HARRY BELOIT, Los Angeles, Calif. Filed Apr. 19, 1921. Serial No. 462,608. 6 Claims. (Cl. 103—58.)



1. In a pump, a pump barrel having internally threaded ends, a liner comprising a pair of end sections and greater more intermediate sections, each of said end sections formed with an exteriorly threaded portion of enlarged diameter, whereby they may be threaded into respective ends of said barrel and advanced toward each other to hold all intermediate sections together.

1,396,244. FILTERING AND CLEANSING COMPOSITION. HENRY R. BLOOMFIELD, New York, N. Y., assignor, by direct and mesne assignments, to Liquid Cleaning Stimulant Co., Inc., New York, N. Y., a Corporation of New York. Filed July 26, 1919. Serial No. 313,657. 12 Claims. (Cl. 210—203.)

1. A composition of the character described, comprising a fibrous substance, and pellets adapted to maintain the permeability of the composition.

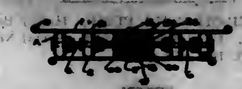
1,396,245. DISPLAY-SIGN. CARL FRED BOETTCHER, Henry, Nebr. Filed June 6, 1921. Serial No. 481,724. 1 Claim. (Cl. 40—132.)



A display sign comprising upper and lower walls having their longitudinal edge portions formed with longitudi-

nal grooves opening out through the ends of the walls, a pair of spaced parallel glass sides secured in said grooves and terminating short of the ends of said upper and lower walls, end walls arranged flatly in contact with the ends of said glass sides and engaging said upper and lower walls, light bulbs shielded by said end walls and having inwardly directed reflectors directing the light rays toward each other whereby to uniformly illuminate the glass sides, and pairs of bolts extending through the terminal portions of said upper and lower walls outwardly of said end walls and detachably holding the end walls and said sides firmly in position.

1,396,246. SELF-SERVING TABLE. LEO P. BOUVIER, Worcester, Mass. Filed Oct. 11, 1920. Serial No. 416,274. 8 Claims. (Cl. 45—26.)



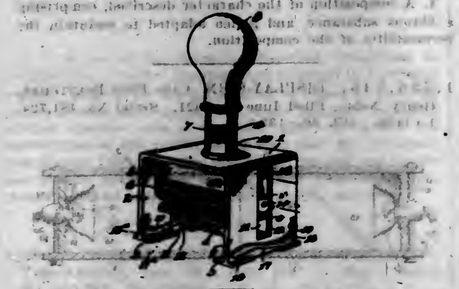
3. In combination, a pair of horizontally arranged disks, a vertical bearing arranged centrally between said disks and separating them, a pin in said bearing around which the upper disk is rotatable, a collar rotatably mounted around said vertical bearing, a radial series of rods secured into said collar, and a series of wooden rollers journaled upon said radially disposed rods, each roller consisting of a sleeve mounted upon said rod and an enlargement roller having a periphery rounded in cross-section.

1,396,247. AMUSEMENT DEVICE. EDWIN L. BOWMAN, Gardner, Mass. Filed July 28, 1919. Serial No. 313,747. 3 Claims. (Cl. 46—27.)



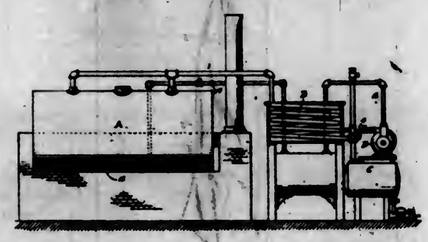
1. A combined saw and carousel comprising a base, a head rotatably carried by the base, a bracket having openings formed therein, means for hingedly connecting the bracket to said head, right angularly extending toster boards arranged on said bracket, the toster boards having pairs of alined openings formed therein arranged to aline with the openings in the bracket, and pins arranged to fit in said alined openings.

1,396,248. NUMBERING-MACHINE. CLAUDE H. BISCHOFF, Jr., Memphis, Tenn. Filed Apr. 14, 1920. Serial No. 373,805. 12 Claims. (Cl. 101—108.)



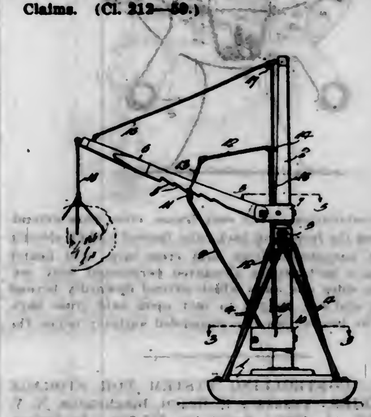
1. A printing device comprising a supporting frame adapted to rest upon a surface, a frame carrying a printing member mounted to reciprocate with respect to said supporting frame and make an impression upon a work surface, a detachable auxiliary impression device and means on said reciprocating frame adapted to engage with other means upon an auxiliary impression device in order that said operation of said reciprocating frame may cause the auxiliary device to make an impression.

1,396,249. METHOD OF DISTILLING PETROLEUM. ELI F. BUSCH, Laurel Springs, N. J. Filed Apr. 23, 1917. Serial No. 163,826. 1 Claim. (Cl. 196—27.)



The process of distilling petroleum oil of high asphaltic content comprising gently heating a charge of the petroleum in a still to vaporise only the lightest constituents, condensing the light oils out of the evolved gases at a temperature not sufficiently low to condense all of the evolved gases, collecting the gases that are not condensed at the temperature of condensation, increasing the heating of the still and passing these non-condensed gases back through the heated petroleum, and condensing the vapors evolved and collecting the non-condensed gases and repassing these non-condensed gases through the petroleum in the still, and continuing the heating of the still with a rise in temperature at each step and the passing of the gases through it and the condensation of the distillates and the collection of the non-condensed gases until the desired distillates have been separated from the charge, so as to avoid cracking of the constituents of the petroleum and to obtain a greater yield of the more valuable products such as lubricating oils from a given quantity of petroleum base of high asphaltic content.

1,396,250. DERRICK. MICHAEL BURKE, Mount Pleasant, Iowa. Filed Nov. 1, 1920. Serial No. 421,071. 6 Claims. (Cl. 212—59.)



1. In a derrick, a base, a standard rising therefrom, a gravity lowered boom pivotally mounted on said standard,

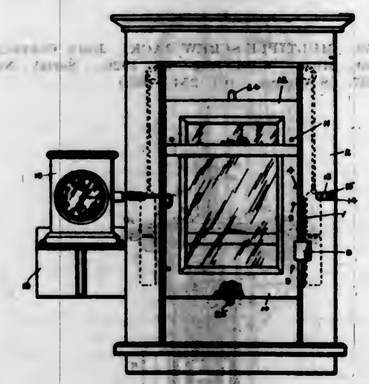
a hoisting cable for elevating said boom, and a separate and independent means for elevating the boom in step by step manner and holding it in the various positions to which it has been moved, said cable serving to disengage said boom from the means when desired to restore the boom to its normal position.

1,396,251. ANTIFRICTION DEVICE FOR LEAF-SPRINGS. CHARLES C. CLARK, Touhy, Nebr. Filed Mar. 30, 1921. Serial No. 456,216. 4 Claims. (Cl. 267—49.)



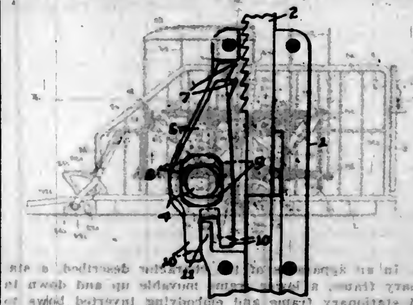
1. An anti-friction device for leaf springs comprising oppositely disposed side plates, said side plates being provided with a plurality of bearing sockets, roller bearings in said sockets, said bearings being graduated in diameter, the smaller bearing being on the inner end and the largest bearing at the outer end of said plates, and means for holding the several parts in assembled position.

1,396,252. AUTOMATIC WINDOW-CLOSING DEVICE. RICHARD G. CATON, Palmyra, N. Y., assignor of one-half to F. J. Lawler, Palmyra, N. Y. Filed Dec. 10, 1920. Serial No. 429,767. 3 Claims. (Cl. 161—1.)



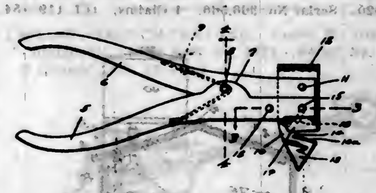
3. In an automatic window closing device, the combination of a window casing, an upper and a lower window sash mounted to slide up and down in said window casing, said upper and said lower sash being counter balanced to allow said sashes to automatically close themselves on the release thereof, pins carried on the outside of said sashes, a lever mounted to swing on said window casing, a dog operated by said lever, said dog being adapted to engage said pins on said sashes to hold said sashes open, a latch on said window casing, said latch being adapted to engage and hold said lever in a position to hold said dogs in engagement with said pins in said window sashes, means to disengage said lever from said latch to release said dogs from said pins and allow said windows to close.

1,396,253. RATCHET-JACK. ROBERT G. CLARK, Brooklyn, N. Y. Filed Nov. 17, 1920. Serial No. 424,960. 4 Claims. (Cl. 254—97.)



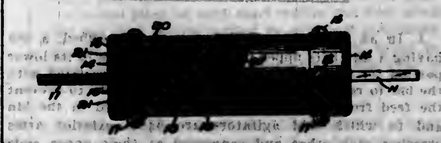
1. A jack, comprising a ratchet-bar, two pawls having square openings, and rotary operating means having two three-sided cams working in said openings, substantially as described.

1,396,254. CAN-OPENER. HENRY CONNOCHEN, Great Falls, Mont. Filed Oct. 20, 1920. Serial No. 418,226. 5 Claims. (Cl. 30—3.)



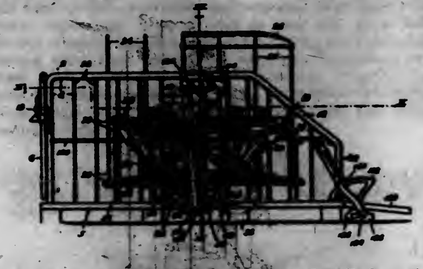
5. A cutting implement comprising a blade having a pointed end and a transverse work-receiving recess opening through one of its edges back of the pointed end, one of the edges of the recess being sharpened to form a cutting edge, a pair of pivotally connected handles one of which carries the blade, and a stationary jaw member on the other handle cooperating with the aforesaid cutting edge.

1,396,255. FUSE OR CUT-OUT. GEORGE W. CONNER, Roslindale, Mass. Filed Apr. 8, 1919. Serial No. 287,219. 11 Claims. (Cl. 200—122.)



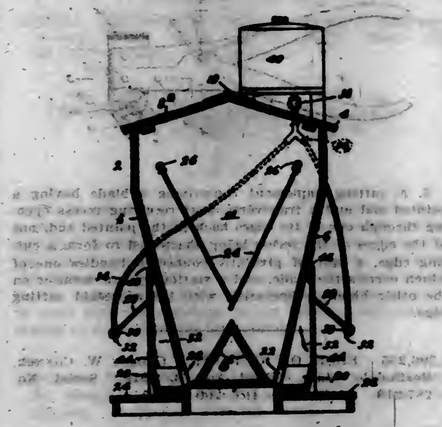
1. In a device of the character described, a shell, a cap having side walls arranged over the end of said shell and an end wall having a slot, a blade extending through said slot and movable relatively to said cap, oppositely located members for engaging the edges of said blade for normally centering it relatively to said shell but permitting adjustment of said blade relatively thereto, means affording a clamping member extending diametrically through both sides of the wall of said cap and through the tube and blade, and oppositely located spacers separate from the elements heretofore enumerated and abutting the blade and interior surface of said shell.

1,396,256. BREEDING-CRATE. James W. Cornerow, Fancett, Mo. Filed Mar. 17, 1920. Serial No. 366,645. 4 Claims. (Cl. 119—68.)



1. In an apparatus of the character described, a stationary frame, a lower frame movable up and down in said stationary frame and embodying inverted bows to engage the underside of an animal, an upper frame movable up and down in said stationary frame and including bows to engage the back of the animal, mechanism for adjusting the movable frames independently of each other, and an adjustable platform at one end of the stationary frame.

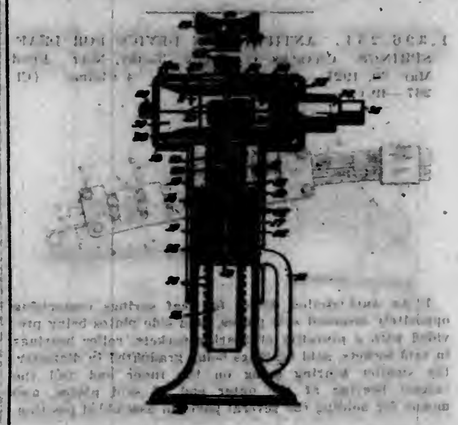
1,396,257. AUTOMATIC DOSER AND SELF-FEEDER. James W. Cornerow, Fancett, Mo. Filed Mar. 17, 1920. Serial No. 366,566. 4 Claims. (Cl. 119—54.)



1. In an apparatus of the character described, a bin having a lid at its upper portion and openings in its lower portion for the discharge of feed, troughs associated with the bin to receive the feed, agitators in the bin to prevent the feed from clogging, rock-shafts journaled in the bin and to which said agitators are fixed, exterior arms crossing each other and connected at their upper ends to said rock-shafts, keepers fixed to the ends of the bin to limit the downward movement of said arms and means connecting the lower ends of the arms in pairs and whereby animals approaching the troughs actuate the agitators by lifting said arms with their backs.

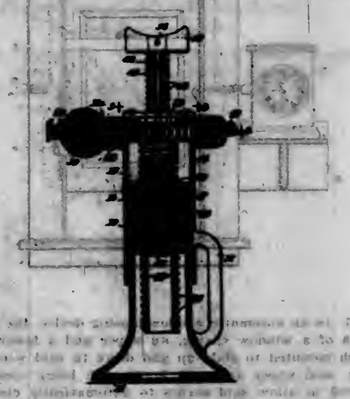
1,396,258. MULTIPLE-SCREW JACK. John Cornell, Detroit, Mich. Filed Aug. 13, 1920. Serial No. 403,236. 11 Claims. (Cl. 254—103.)

1. In mechanism of the class described, the combination of two separated non-rotatable members, one of which is a base, a pair of screws telescoping with each other and with the non-rotatable members, screw threads between said screws, other screw threads between one screw and one non-rotatable member, a spline connection between the other screw and the other non-rotatable member, and means for rotating the rotatable screw.



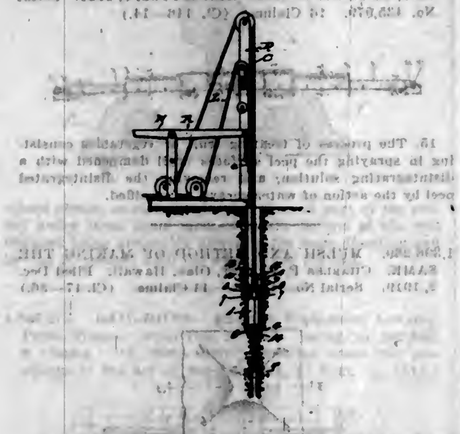
thereto and journaled in the other non-rotatable member, and means simultaneously rotating said gears in such directions that the screws travel in opposite directions longitudinally of each other and in the same direction with reference to the non-rotatable member in which one screw is threaded.

1,396,259. MULTIPLE-SCREW JACK. John Cornell, Detroit, Mich. Filed Aug. 13, 1920. Serial No. 403,237. 8 Claims. (Cl. 254—103.)



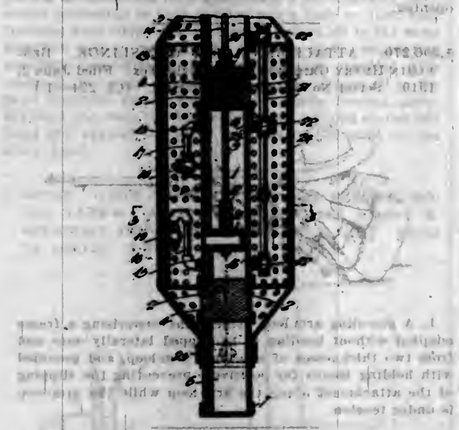
1. In mechanism of the class described, the combination of two separated non-rotatable members one of which is a base, a pair of screws telescoping with each other and with the non-rotatable members, screw threads between said screws, other screw threads between one screw and one non-rotatable member, a spline connection between the other screw and the other non-rotatable member, and means for rotating the rotatable screw, said gears in such directions that the screws travel in opposite directions longitudinally of each other and in the same direction with reference to the non-rotatable member in which one screw is threaded.

1,396,260. BIT-RECOVERING MEANS. John P. T. Davis, Elk City, Kans. Filed Sept. 15, 1919. Serial No. 323,603. 3 Claims. (Cl. 255—63.)



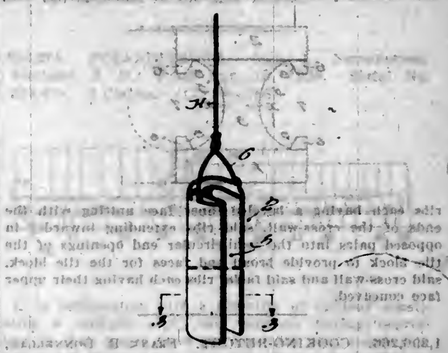
1. A bit of the herein described class formed of two vertical sections hinged together and having channels in their inner sides, and means for holding said sections closed around a cable.

1,396,261. PUMP. John P. T. Davis, Elk City, Kans. Filed Oct. 30, 1919. Serial No. 334,386. 2 Claims. (Cl. 103—76.)



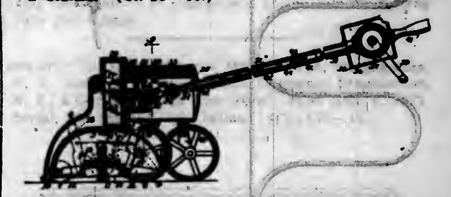
1. A well pump structure embodying a cylinder closed at its opposite ends, a piston operable in said cylinder, piping connected to the upper end of the latter and extending upwardly to the surface of the ground, valved inlets and outlets adjacent the opposite ends of the cylinder, a pipe connected to and opening up communication between said outlets, an additional valved inlet for the aforesaid piping, and a conduit communicating with the upper outlet and adjacent inlet of said piping serving to carry the liquid from the cylinder into said piping whereby the column of liquid will be supported by the closed end of the cylinder and said piston relieved of excessive weight.

1,396,262. BAILER. John P. T. Davis, Elk City, Kans. Original application filed Sept. 15, 1919, Serial No. 323,603. Divided and this application filed June 14, 1920. Serial No. 388,970. 2 Claims. (Cl. 166—18.)



1. A bailer of the class described comprising a vertically elongated hollow container having a vertical channel in one of its sides to receive the tool carrying cable as the bailer is lowered into the well, the upper end of said container having cable attaching means and the lower end thereof being provided with a valved inlet.

1,396,263. VACUUM-CLEANER. Jacob W. Diephouse, Chicago, Ill. Filed Sept. 12, 1917. Serial No. 190,893. 2 Claims. (Cl. 15—60.)



1. In a vacuum cleaner, the combination of a vacuum casing, a nozzle in proximity to the surface to be cleaned and in communication with said vacuum casing, a fan casing, a fan in said fan casing, a gear box mounted on said fan casing, gearing in said gear box for operating said fan, a tube pivotally mounted at one end on said gear box, and carrying another gear box on its outer end, a shaft engaging with said gearing to operate the same and projecting outwardly through the rear end of the first mentioned gear box and into said last mentioned gear box, a universal joint on said shaft within the first mentioned gear box, and means carried by said last mentioned gear box for operating said shaft, said shaft being in two parts and its ends being connected by a slip joint within said tube.

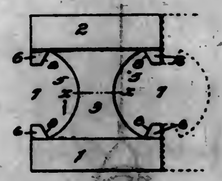
1,396,264. FIREPROOFING COMPOSITION. Silvio Di Filippo, Toledo, Ohio. Filed Nov. 18, 1920. Serial No. 423,905. 1 Claim. (Cl. 23—6.)

A fire proofing composition consisting of the ingredients and proportions substantially as follows: ammonium sulfate, 10 pounds; potassium bicarbonate, 3 pounds; boracic acid, 6 pounds; borax, 24 pounds; water 200 pounds.

1,396,265. TILE-BLOCK. Mathias Dochnal, St. Louis, Mo. Filed Oct. 28, 1918. Serial No. 259,963. 1 Claim. (Cl. 72—29.)

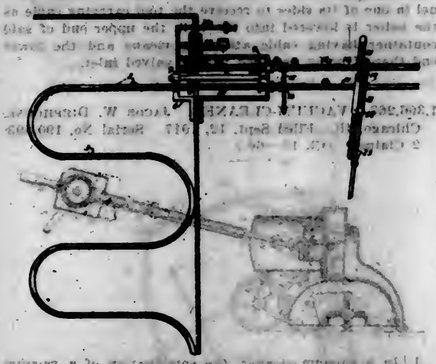
A tile block comprising an inner wall section and an outer wall section, a central cross-wall uniting said inner

and outer wall sections, said cross-wall having concaved end faces to gradually strengthen its union with the inner and outer wall sections and provide a semi-circular opening at each end of the tile block, a facial rib formed at each extremity of the inner and outer wall section, said



ribs each having a beveled inner face uniting with the ends of the cross-wall, said ribs extending inwardly in opposed pairs into the semi-circular end openings of the tile block to provide broad end faces for the tile block, said cross-wall and said facial ribs each having their upper face concaved.

1,396,266. COOKING-RETORT. FRANK B. DONNELLAN, San Francisco, Calif. Filed June 25, 1919. Serial No. 306,529. 11 Claims. (Cl. 126—272.)



1. In combination with a cooking retort, means for introducing cans into, or withdrawing them from, said retort, comprising a chamber secured to the outside of the retort, around a hole in the retort communicating with said chamber, said chamber being closed at the outer end and with its inner end open and registering with said hole, a shaft in said chamber, open ended parallel tubes, each of sufficient size to contain the cans, and carried by said shaft, tubes also of such size extending into the chamber, a guideway for the can in the retort, and means for rotating said shaft to move one of the tubes carried thereby into registry with said guideway and another of said tubes into registry with one of the tubes extending into the chamber.

1,396,267. METHOD OF MAKING ORNAMENTAL ARTICLES. GENNARO DORSO, San Francisco, Calif. Filed Mar. 7, 1921. Serial No. 450,405. 2 Claims. (Cl. 42—14.)

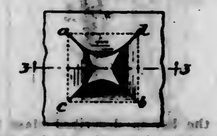
2. The method of making ornamental articles representing baskets of fruit, by modeling the fruit of a composition of glue, water, sawdust and whiting, modeling the stems of the same, the stem composition being based on a suitable bent wire, making leaves of two ply of fabric pasted together with a composition of liquid glue, water and whiting, securing them to the stem and fruit imitations by inserted wires, burnishing, and coloring the designs with dry paint and dry japan, and finishing with said mixture of paint and japan diluted with turpentine.

1,396,268. APPARATUS AND PROCESS FOR PEELING FRUIT AND VEGETABLES. SAMUEL J. DUNGLEY, Oakland, Calif., assignor to Dunkley Company, Kalamazoo, Mich., a Corporation of Michigan. Filed Nov. 15, 1916, Serial No. 131,162. Renewed Jan. 8, 1921. Serial No. 435,979. 16 Claims. (Cl. 146—14.)



15. The process of treating fruit or vegetables consisting in spraying the peel surfaces until dampened with a disintegrating solution, and removing the disintegrated peel by the action of water sprays, as specified.

1,396,269. MULSH AND METHOD OF MAKING THE SAME. CHARLES F. RICHEY, Olaa, Hawaii. Filed Dec. 2, 1919. Serial No. 341,871. 11 Claims. (Cl. 47—36.)



4. The method of making a mulsh which consists in incompletely saturating a piece of fibrous material with a water-proofing substance and in forming opposed flaps therein which are adapted to rise to produce an opening.

6. A mulsh consisting of a piece of fibrous material incompletely saturated with a water-proofing substance and having flaps therein adapted to rise to produce a planting opening.

1,396,270. ATTACHMENT FOR GUN-SLINGS. BENJAMIN HENRY GRIMSON, Fort Davis, Tex. Filed June 2, 1919. Serial No. 301,287. 18 Claims. (Cl. 224—1.)

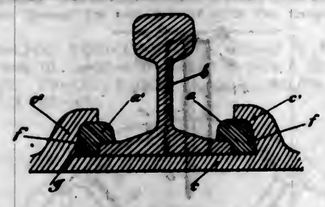


1. A gun-sling arm-loop attachment comprising a frame adapted without bending to be slipped laterally onto and from two thicknesses of a leather arm-loop, and provided with holding means for positively preventing the slipping of the attachment along the arm-loop while the arm-loop is under tension.

1,396,271. FASTENING MEANS FOR VIGNOLE RAILS. EDMOND FLORIMOND LEVAIRE, Paris, France. Filed Dec. 9, 1919. Serial No. 343,647. 6 Claims. (Cl. 238—204.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. A fastening device for Vignole rails comprising the combination of a metal supporting member, two lateral opposite claws integral with the said supporting member having a substantially horizontal projecting or beak portion, the inner under side of each beak portion being situated in a plane at right angle with the web part of the rail, but slightly inclined longitudinally toward the rail flange and a body portion and two tapering keys adapted

to be forcibly driven between one claw on the said supporting member and one edge of the rail flange, respectively, both keys having their upper faces in slightly inclined planes, at right angle with the web part of the rail, the under faces being inclined to the bottom of the rail chamber being preferably driven in the same direction and having no contact with the web part of the rail.

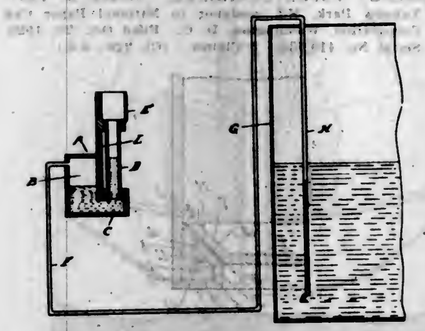


1,396,272. RAIL-JOINT. EDMOND FLORIMOND LEVAIRE, Paris, France. Filed Dec. 9, 1919. Serial No. 343,648. 6 Claims. (Cl. 238—151.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A rail joint comprising the combination of supporting members adapted to support the rail sections, respectively, two lateral opposite claws integral with each supporting member each claw comprising a substantially horizontal projecting or beak portion and a body portion, four tapering keys adapted to be forcibly driven all in the same direction each in contact with one claw on the supporting members, respectively, and two fish-plates provided with wedge surfaces and adapted to be forcibly driven all in the same direction as the keys, the fish-plates bearing under the head and upon the flange of the rail sections on the one hand and against the other members of the joint on the other hand.

1,396,273. GAGE OR INDICATOR FOR FLUID-HOLDING TANKS. ANDREW H. MILLER and ROBERT E. MCCAFFREY, Detroit, Mich. Filed Dec. 6, 1917. Serial No. 205,722. 2 Claims. (Cl. 73—54.)



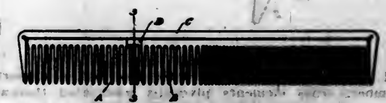
1. The combination with a liquid container, of an indicator therefor comprising a tube extending downward in said container and having its lower end open, the plane of the opening being oblique to the tube, the opposite end of said tube extending to the point where the indicator is to be located, a receptacle for indicating fluid having a sealed air chamber therein connected with said tube, and a transparent tube rising from said receptacle having its lower end immersed in the fluid therein.

1,396,274. STRAIGHTEDGE. CARL L. NEUMEISTER, Scotland, S. D. Filed Apr. 13, 1920. Serial No. 373,478. 2 Claims. (Cl. 33—183.)



1. In combination with a plurality of sections constituting a straight edge, said sections having depressions in their upper faces and provided with recesses in their lower faces, clamp frames having arms located in said recesses, bolts extending through said sections and arms, bow springs engaging centrally with the bolts and having their free ends fitted in said depressions, spring jaws carried by the under sides of said arms and having prongs extending downwardly and adapted to engage the upper face of a shingle, a plate secured beneath said clamp frame and having a tapered extension piece underlying the spring jaw and adapted to engage beneath the shingle, and a lever pivotally mounted in said clamp frame and provided with an eccentric extending downwardly and adapted to engage said spring jaw for forcing it into the shingle.

1,396,275. COMB. THOMAS MCK. NOYES, Binghamton, N. Y., assignor to Noyes Comb Company, Binghamton, N. Y., a Corporation of New York. Filed Aug. 4, 1921. Serial No. 489,761. 4 Claims. (Cl. 132—17.)

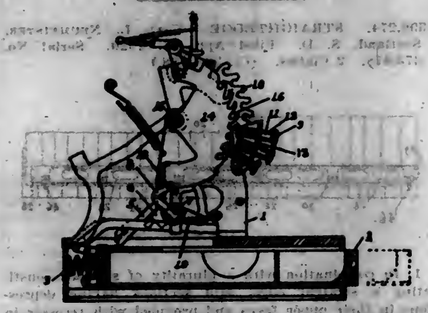


1. A comb comprising,—abutting pieces the adjacent ends of each of which pieces are toothed and the backs of which pieces are channeled to receive the edges of a metal back; in combination with a connector engaging the teeth of such adjacent ends, engaging the sides of the backs of said pieces and entering the channels formed therein; and a metal back inclosing the backs of said pieces and the ends of said connector, the edges of said back being so formed as to snugly engage the channeled portions of the backs of said pieces where not covered by said connector and to pass outside of the portions of said connector which engage said channels and thereby force said connector portions somewhat into said channels.

1,396,276. PROCESS FOR IMPROVING FERROUS METALS. ALADAR PACZ, Cleveland Heights, Ohio. Filed Apr. 16, 1920. Serial No. 374,261. 1 Claim. (Cl. 75—1.)

The method of producing an alloy of iron and aluminum which contains the steps of first preparing an alloy of aluminum containing from about ten to about forty per cent. of silicon, cooling and disintegrating the same and then adding it to a bath of molten iron.

1,396,277. CASH-REGISTER. William L. Paine, Saginaw, Mich., assignor to American Cash Register Company, Saginaw, Mich., a Corporation of Michigan. Filed Oct. 28, 1918. Serial No. 259,994. 8 Claims. (Cl. 235—22.)



2. In a registering machine, a combined recording and drawer release device including a key comprising two stems, one of said stems adapted to actuate the recording device of said machine, said stems adapted to be depressed simultaneously and to return independently to their initial positions for the purposes set forth.

1,396,278. ANCHORING DEVICE. Mathew H. Paine, Glenellyn, and Winfield S. Williams, Chicago, Ill., assignors to Paine Company, a Corporation of Illinois. Filed May 18, 1917. Serial No. 169,553. 30 Claims. (Cl. 85—8.)



1. In a device of the character described, a supporting member, truss elements pivotally associated therewith, tension means normally tending to expand said elements laterally with respect to said supporting member, and means for yieldingly resisting such expansion.

1,396,279. ANCHORING DEVICE. Mathew H. Paine, Glenellyn, and Winfield S. Williams, Chicago, Ill., assignors to Paine Company, a Corporation of Illinois. Filed July 6, 1917. Serial No. 178,926. 17 Claims. (Cl. 85—8.)



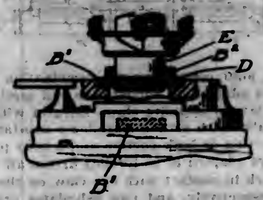
1. In a device of the class described, the combination with a bolt, of a pair of anchoring members pivotally associated with said bolt, tension means for expanding said members into the form of a truss, the latter when fully expanded extending at substantially right angles with respect to said bolt but being capable of angular adjustment relatively thereto.

1,396,280. CONTRACTIBLE CORE. Mathew H. Paine, Glenellyn, Ill., assignor to The Paine Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 20, 1920. Serial No. 360,122. 7 Claims. (Cl. 25—128.)



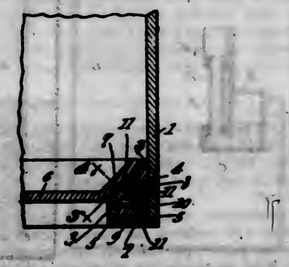
4. In a device of the class described, a sheet of material bent to provide outer and inner cylindrical portions, attaching means carried by said inner portion, said outer portion being contractible around said inner portion and means for preventing displacement of said attaching means from said inner portion, said means also serving as a cover for one end of said device.

1,396,281. PROCESS OF FORMING METAL ARTICLES. Edward J. Paque, Cincinnati, Ohio, assignor to The Pollak Steel Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 17, 1919. Serial No. 338,578. 2 Claims. (Cl. 29—156.)



1. A process for forming a metal ring, which comprises first removing a slug from a longitudinally rolled billet by cutting it transversely, second, forming from the slug a disk that has a substantially greater transverse and smaller longitudinal dimensions than the slug by compressing it longitudinally, and third, forming from the disk the ring by pressing a plug from the center of the disk.

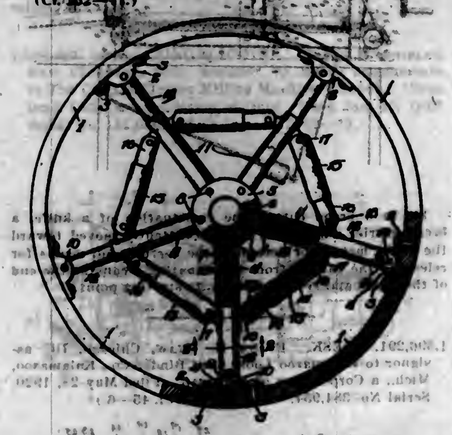
1,396,282. PAPER CONTAINER. George R. Penn, Takoma Park, Md., assignor to National Paper Can Corporation, Washington, D. C. Filed Oct. 23, 1920. Serial No. 419,035. 5 Claims. (Cl. 229—5.6.)



1. A paper container comprising a body having one end portion folded to constitute an annular rectangular base and an inclined annular flange carried by the base, and a bottom disk having an inclined annular portion seated

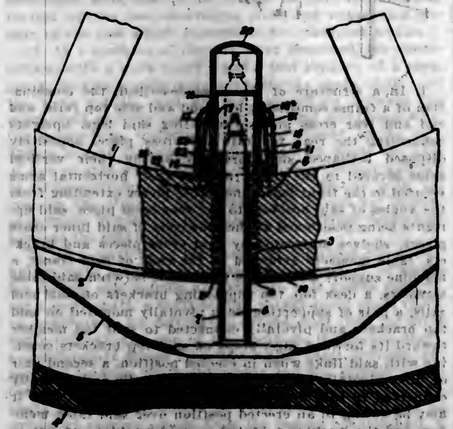
on the inclined flange and an angular peripheral portion upon the first and presenting interrupted interfitting with the rectangular base, said disk having an annular series of stiffening depressions in the inclined and marginal portions thereof for engagement with the flange.

1,396,283. VEHICLE-WHEEL. Seabal M. Perry, Roseland, Ill., assignor of one-half to John J. Reid, Chicago, Ill. Filed July 6, 1920. Serial No. 394,066. 2 Claims. (Cl. 152—17.)



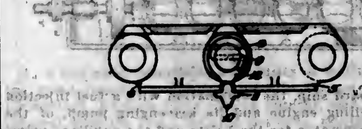
1. In a wheel, a felly, a hub, telescoping spokes, means to pivot the spokes on the felly, means to pivot the spokes on the hub, and springs fastened at their opposite ends in said spokes, so that each spring sustains both a compression and a tensile strain, and whereby the load weight is always imposed on all of the springs, telescoping connections between said spokes, and springs fastened at their opposite ends to said connections, whereby there is always a spring under compression above said hub and a spring under compression below the hub.

1,396,284. FLAT-TIRE ALARM. Karl Rinkle, West Palm Beach, Fla. Filed Feb. 23, 1920, Serial No. 365,024. Renewed Aug. 8, 1921. Serial No. 490,906. 6 Claims. (Cl. 116—34.)



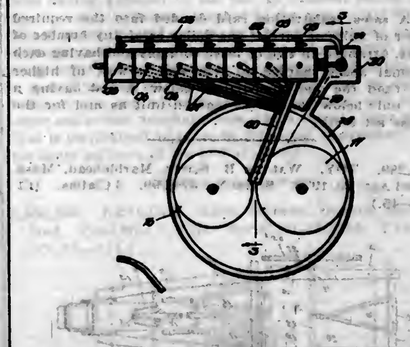
1. In a device of the character described the combination, with a pneumatic tire mounted on a wheel in the usual manner, with the valve stem extending through an aperture in the rim and felly of the wheel, of a tube having a series of alternate ribs and grooves formed at its upper end, said tube being operable in said aperture and having its lower end supported on the base of the valve stem and a sound producing mechanism coöperating with the upper end of the tube whereby movement of the tube due to the action of the valve stem will operate the sound producing mechanism.

1,396,285. TRACTOR-LINK. Claude Rosebeck, Chicago Heights, Ill., assignor to American Manganese Steel Company, Chicago, Ill., a Corporation of Maine. Filed Aug. 28, 1919. Serial No. 319,808. 4 Claims. (Cl. 305—10.)



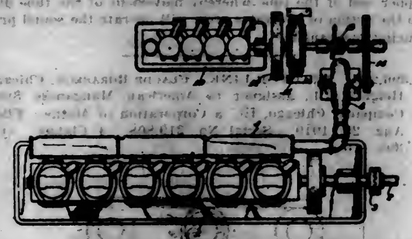
1. A track chain of the self laying type, comprising link plates having tracks upon their upper sides, said tracks projecting beyond the ends of the respective link plates and pivotally connected to the tracks of the respective adjacent link plates, adjacent ends of successive link plates being spaced to permit angular movement of said plates, and grouters at the under side of the chain, each grouter spanning the space between adjacent link plates and provided with a portion extending through the space between the link plates and pivotally connected to the pivotal connection between said link plates.

1,396,286. METHOD OF HANDLING ABRASIVE MATERIAL. Myron A. Ross, Chicago, Ill., assignor to Pressed Prism Plate Glass Company, Morgantown, W. Va., a Corporation of West Virginia. Filed May 15, 1920. Serial No. 381,565. 4 Claims. (Cl. 51—264.)



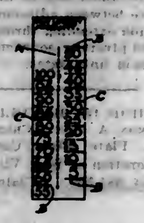
1. The method of applying abrasives to grinding apparatus, which consists in conveying the discharged abrasive material mixed with a liquid to a separation operation while the material flows continuously from the grinding operation, separating such material into different grades of fineness, withdrawing the separated grades of such material in any desired sequence independently of other grades, concurrently conveying back the discharge from the grinding apparatus and grading such discharge independently of the material being withdrawn from the separation operation, substantially as specified.

1,396,287. MARINE-POWER INSTALLATION. MAX ROSTEN, Milwaukee, Wis., assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed Dec. 20, 1919. Serial No. 346,817. 4 Claims. (Cl. 290—4.)



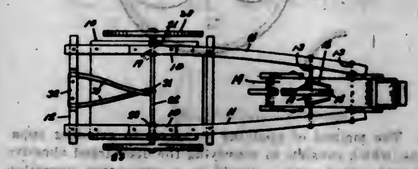
2. On board ship, the combination with a fuel injection type propelling engine and its scavenging pump, of the electrical generator for the hoists and the auxiliary prime mover for the latter, the said auxiliary prime mover being arranged to operate said scavenging pump for the propelling engine.

1,396,288. SALES-REGISTRATION CARD. WILLIAM H. ROYSTONE, New York, N. Y. Filed Sept. 23, 1920. Serial No. 412,330. 3 Claims. (Cl. 283—51.)



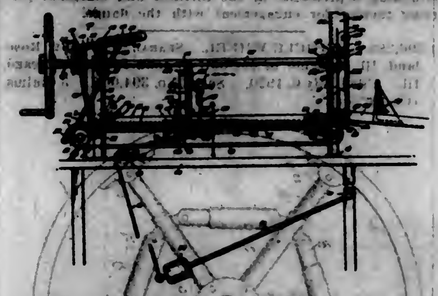
1. A sales registration card divided into the required number of units of part of one dollar or of any number of dollars, arranged in two or more columns and having each divisional space marked to represent a unit of higher value than the one immediately below it and having a blank unit below the lowest marked unit as and for the purpose set forth.

1,396,289. TOY. WALTER B. SCOTT, Marblehead, Mass. Filed Apr. 19, 1920. Serial No. 374,799. 8 Claims. (Cl. 46—45.)



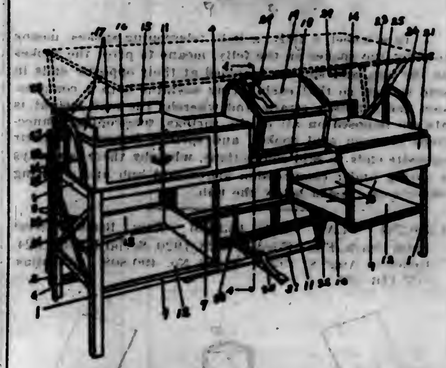
1. The combination in a toy, of a rotatably supported shaft having band-engaging means, a fixed support carried by the frame of the toy, and an endless elastic band detachably connected with said fixed support and band-engaging means, said support and band-engaging means cooperating to separate said band into two spaced strands adapted independently to wind about said shaft.

1,396,290. BREAD-SLICING MACHINE. GUSTAV [illegible], Yonkers, N. Y. Filed Feb. 28, 1920. Serial No. [illegible]. 12 Claims. (Cl. 146—12.)



12. In a bread cutter, the combination of a knife, a bread carrier adapted to be intermittently moved toward the knife, means for actuating the carrier, and means for releasing the carrier from the actuating means at the end of the latter and returning it to its starting point.

1,396,291. DESK. FRANK H. SHAW, Chicago, Ill., assignor to Kalamazoo Loose Leaf Binder Co., Kalamazoo, Mich., a Corporation of Michigan. Filed May 28, 1920. Serial No. 384,961. 12 Claims. (Cl. 45—6.)

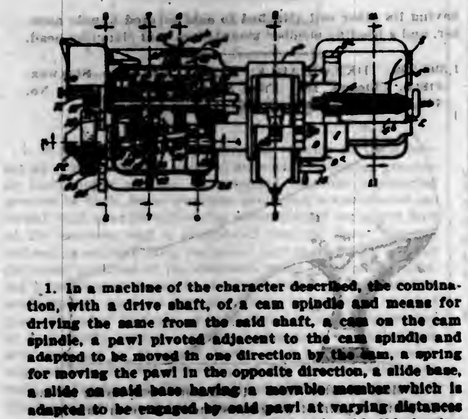


1. In a structure of the class described, the combination of a frame comprising legs, end and side top rails, and end and rear cross pieces connecting said legs, uprights connecting the rear top rail and cross piece, oppositely disposed L-shaped shelf brackets having their vertical arms secured to the front rail and their horizontal arms secured to the front legs, inner cross pieces extending from the angles of said brackets to the rear cross piece, said uprights being positioned at the rear ends of said inner cross pieces, shelves supported by said cross pieces and brackets, table members arranged at the ends of said frame, a machine support mounted on said frame between said table members, a desk top, top supporting brackets on said end rails, a pair of supporting links pivotally mounted on said top brackets and pivotally connected to said top member toward its forward edge, stops on said top brackets coacting with said links when in erected position, a second pair of links pivotally mounted on said end rails and pivotally connected to said desk top near its rear edge so that it may be swung to an erected position over said table members and the machine mounted on said machine support or collapsed at the rear of the frame, a rock shaft constituting a foot rail, hangers mounted on the inner cross pieces,

and a lever mounted on said rock shaft to engage the rear edge of the desk top when it is collapsed to assist in raising the same.

12. A structure of the class described comprising a table member, a machine support at the side of said table member, a desk top, supporting links for said top arranged so that the top may be swung to an erected position over said table member and the machine mounted on said machine support or collapsed at the rear thereof, and a lever mounted to engage said desk top when it is collapsed to assist in raising the same.

1,396,292. RELIEVING-MACHINE. FRANK S. SHIELDS, East Cleveland, Ohio, assignor, by mesne assignments, to The Clark & Mesker Milling Machine Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 10, 1917. Serial No. 141,532. 25 Claims. (Cl. 82—19.)

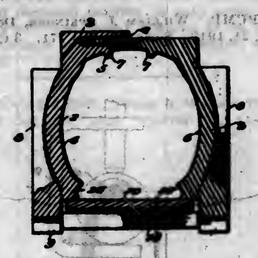


1. In a machine of the character described, the combination, with a drive shaft, of a cam spindle and means for driving the same from the said shaft, a cam on the cam spindle, a pawl pivoted adjacent to the cam spindle and adapted to be moved in one direction by the cam, a spring for moving the pawl in the opposite direction, a slide base, a slide on said base having a movable member which is adapted to be engaged by said pawl at varying distances from the axis of oscillation of said pawl, said slide having spaced guideways between which the cam and the pawl operate, a carriage rotatably supporting said slide base, a second slide rotatably mounted on the first slide, a slide carried by the last mentioned slide and adjustable transversely thereof, means for clamping a tool upon the last mentioned slide, and an adjustable support for said tool carried by the last mentioned slide and supporting the part of the tool which is opposite the clamping means.

10. In a machine of the character described, the combination, with a work spindle and a tool support, of a main shaft, driving connections between the main shaft and the work spindle, and driving connections between the main shaft and the tool support, the last mentioned driving connections including a pair of spaced shafts each having a gear thereon, a frame rotatable about the axis of one of said shafts and having a gear thereon adapted to be brought into and out of driving relation with the gear on the other of said shafts, and means for locking said frame in position to establish the driving connection between the said shafts.

20. In a machine of the character described, the combination, with a work spindle and a tool support, of means for driving said spindle and support, said means comprising a drive shaft, a shaft having change-speed gears thereon, connections for driving the second shaft from the drive shaft through any one of the gears on the second shaft, a countershaft driven from the second shaft, driving connections between the countershaft and the spindle, a second countershaft driven from the first mentioned countershaft, a cam shaft, means whereby the cam shaft may be driven at varying speeds from the second countershaft, a cam spindle driven by the cam shaft, and connections for driving the tool support from the cam spindle.

1,396,293. THREE-PIECE MOLD. GUY A. SIVELEY, Tacoma, Wash., assignor to Dutho Rubber Company, Pierce county, Wash. Filed Feb. 4, 1921. Serial No. 442,473. 5 Claims. (Cl. 18—38.)



1. A tire mold comprising a plurality of sections, including tread forming portions integrally formed with complementary portions for a sliding interfit, and side walls integral with the tread forming portions, reinforce projections overlying the side walls, and a rim to be removably inserted between said reinforce sections to define the limit of the forming side walls, the complementary portions being formed wholly to one side of the circumferential center line of the mold.

1,396,294. FOCUSING-SOCKET FOR ELECTRIC LAMPS. EUGENE A. SNOW, River Forest, Ill. Filed Mar. 22, 1920. Serial No. 367,644. 2 Claims. (Cl. 240—44.)



1. In a focusing device for electric lamps, a tubular boss having adjacent to one end an external recess, a reflector which is fixedly attached to the boss a part thereof being seated in said recess, an internal shoulder located adjacent to the end of the boss having the external recess, an internal recess adjacent to the opposite end of the boss, a helical spring maintained within the boss by engagement at one end with the internal shoulder and at the other end by the internal recess, and a tubular lamp socket that is maintained in place by frictional engagement with the inner surfaces of the helical spring.

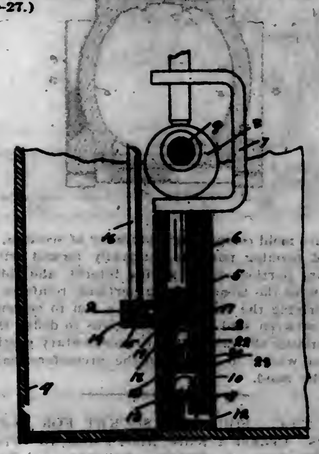
1,396,295. BEARING. LÉON SPIERER, Geneva, Switzerland. Filed Mar. 7, 1921. Serial No. 450,156. 2 Claims. (Cl. 74—104.)



2. In a bearing, the combination of members for sustaining the load on the bearing and contacting with each other, a receptacle within which the point of contact of

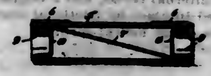
said members is arranged, said mercury filled in said receptacle to such a height that said point of contact is submerged.

1,396,296. PUMP. William J. Springer, Detroit, Mich. Filed Mar. 21, 1919. Serial No. 284,171. 3 Claims. (Cl. 184—27.)



3. A pump comprising a cylinder, a coöperating pump plunger working therein, said plunger having a chamber therein near the lower end, the end of the plunger being closed, save for a small central opening communicating with said chamber, a ball check valve in said chamber coöperating with said small opening, a port extending along the side of said plunger and a port communicating with said port and the chamber in said plunger, said cylinder having a port in the side thereof with which the port in the side of the plunger coöperates.

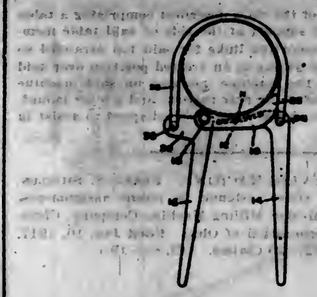
1,396,297. ELECTRIC FUSE. Archie W. Brinkle, Bloomfield, N. J., assignor to Wilford J. Hawkins, Montclair, N. J. Filed Sept. 24, 1919. Serial No. 325,862. 4 Claims. (Cl. 200—132.)



1. An electric fuse, comprising, a hollow body of insulating material, metallic ferrules at the ends of said body having inturned edges engaging the inner surface of the hollow body, a flat fuse element within said body and resilient friction caps slightly smaller in external diameter than the internal diameter of the hollow body engaging said inturned edges and firmly gripping the extremities of said fuse element in electrical contact therewith.

1,396,298. SCREW-CAP WRENCH. Arthur Stockland, Minneapolis, Minn. Filed Oct. 19, 1920. Serial No. 417,861. 3 Claims. (Cl. 81—3.1.)

1. A screw cap wrench comprising a clamping head, a handle member rigid with and extending outwardly from said clamping head, a second handle member pivoted to said clamping head and extending outwardly therefrom, a U-shaped gripping member adapted at one of its ends to be fixedly held with relation to said clamping head and



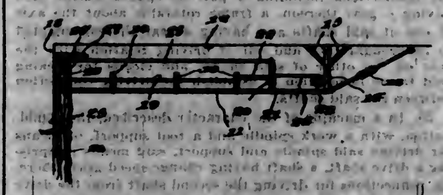
having its other end attached to said pivoted handle member, and a beading member mounted on said clamping head.

1,396,299. DETACHABLE HEEL. Bernard Summerfield, Chicago, Ill. Filed Sept. 22, 1920. Serial No. 412,122. 2 Claims. (Cl. 36—41.)



1. A demountable heel attachment comprising a metallic plate, a pair of tongues struck out from said plate and disposed at an angle with respect thereto, said tongues being arranged in longitudinal spaced relation, a heel member hollow in cross section, a pair of catches formed in the heel member and arranged in longitudinal spaced relation, said catches and tongues operative as interengaging latches upon the movement of said heel relative to the plate, means for affixing the plate to a shoe, one of said tongues being adapted to come into juxtaposition to the front of the heel and means for anchoring said heel to the juxtapositioned tongue.

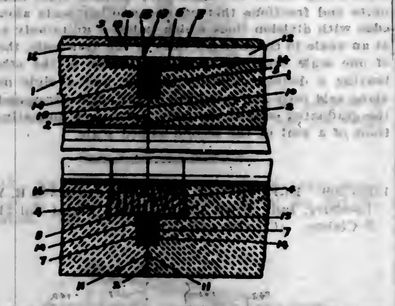
1,396,300. DISPLAY-RACK. Charles W. Thompson, Pensacola, Fla. Filed Apr. 20, 1921. Serial No. 465,423. 1 Claim. (Cl. 211—22.)



A curtain display rack including a pair of horizontal parallel supporting wires, a plurality of transverse bars each having notches in its lower edge receiving the said wires, longitudinal cords secured to and extending between the transverse bars to hold the bars in spaced relation, a transverse bar having grooved wheels running on the wires and rigidly connected with the adjacent of the first transverse bars, a ceiling support retaining the outer ends

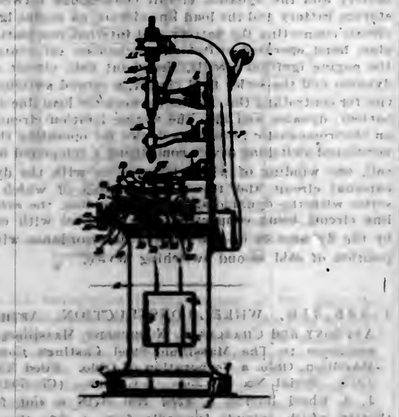
of the wires, a spring motor mounted on the support, a cable connected to the spring motor and to the grooved wheel bar, and a cable connected to the said grooved wheel bar and arranged to be pulled to move the transverse bars in one direction on the wires and the motor to move them in the opposite direction.

1,396,301. SECTIONAL CONDUIT. David D. Tracy, Jackson, Mich. Filed July 17, 1920. Serial No. 397,028. 2 Claims. (Cl. 72—58.)



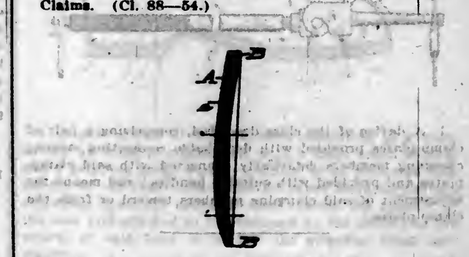
1. A sectional conduit comprising tubular sections having abutting ends with stepped external registering grooves in their upper portion and stepped internal registering grooves in their lower portions providing a shouldered external joint channel embracing substantially the upper half of the sections and a shouldered internal joint channel embracing substantially the lower half thereof, the ends of the inner portions of the channels being connected providing a continuous inner channel, coupling bars embedded in said conduit sections and projecting at the ends thereof into the outer portions of said channels and terminating in rearwardly turned coacting hooks open at their sides and disposed so that the hooks may be simultaneously engaged by a lateral movement of the sections with their ends in abutting relation, a packing of fibrous material for the inner portions of said channels, the walls of the inner portions of said channels being coated with a waterproof material, and a cement filling for the outer portions of said channels embedding the engaged hooks.

1,396,302. WORK-HOLDER. Julian W. Wagner, Detroit, Mich. Filed Aug. 18, 1919. Serial No. 318,271. 9 Claims. (Cl. 90—58.)



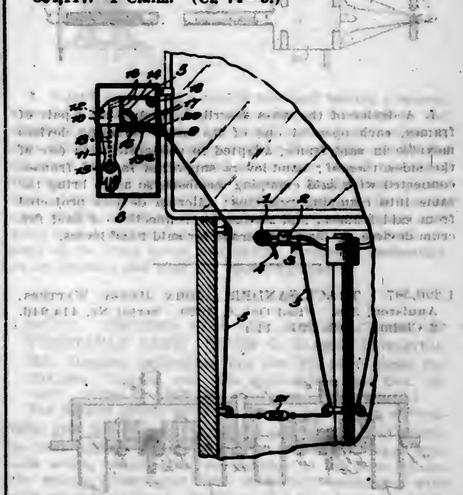
1. A work holder for a cutting machine comprising an adjustable table, movable to and from the front of the machine, a screw for adjusting said table, a support slidable on said table, a rack carried by said support, a pinion extending through said table to engage said rack for moving said support on said table, a shaft supporting said pinion and disposed parallel to said screw, a hand wheel on said shaft, and means adapted to be placed in engagement with said hand wheel for minutely adjusting said hand wheel.

1,396,303. BIFOCAL LENS. Peter R. Walsh, Worcester, Mass. Filed Oct. 20, 1920. Serial No. 418,198. 4 Claims. (Cl. 88—54.)



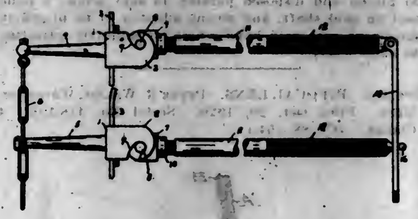
1. As an article of manufacture, a bifocal lens comprising two pieces of glass of two different indexes of refraction united together, said lens having continuous uniform curves on both sides, that on one side extending through one glass into the other glass, the entire convex surface being of one kind of glass, whereby the curves on the distance field of vision and on the reading field of vision are the same.

1,396,304. DIRECTION-INDICATOR. Charles A. Warring, Cleveland, Ohio. Filed Oct. 29, 1919. Serial No. 334,117. 1 Claim. (Cl. 74—5.)



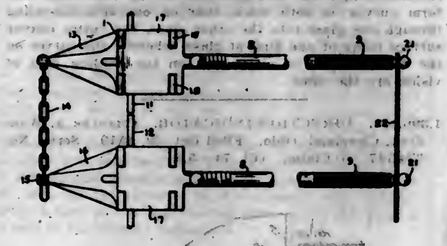
In combination with the cross arm of a steering wheel, a signal operating device comprising a clip secured on the underside of the cross arm, a roller carried by the inner end of the clip, a right angled bracket pivoted to the forward end of the clip, the outer member of said bracket normally depending and the other member normally resting within the clip and parallel to the cross arm and a cable connected to the said last mentioned member and running over said pulley.

1,396,305. BELT-STRETCHING DEVICE. WILLIAM R. WATERS, Davenport, Iowa. Filed Jan. 3, 1921. Serial No. 434,583. 8 Claims. (Cl. 254—52.)



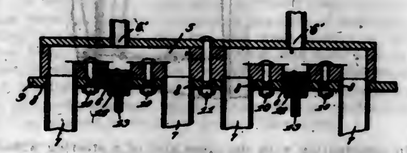
1. A device of the class described, comprising a pair of clamp-plates provided with detachable connecting means; clamping members detachably connected with said clamp-plates and provided with suitable handles; and means for adjustment of said clamping members toward or from the clamp-plates.

1,396,306. BELT-STRETCHER. WILLIAM R. WATERS, Davenport, Iowa. Filed Jan. 13, 1921. Serial No. 436,945. 8 Claims. (Cl. 254—52.)



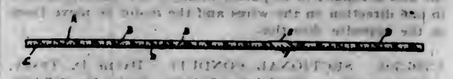
1. A device of the class described, comprising a pair of frames, each open at one of its ends; clamping devices movable in said frame, adapted to cooperate with one of the sides thereof; hand-levers supported in said frames, connected with said clamping members, so as to bring the same into clamping relations; fulcrum devices projected from said frames; and means for connection of said fulcrum devices, to form a leverage for said hand-levers.

1,396,307. TRACK-SANDER. JOHN HENRY WATTERS, Anniston, Ala. Filed Oct. 6, 1920. Serial No. 414,946. 2 Claims. (Cl. 291—11.)



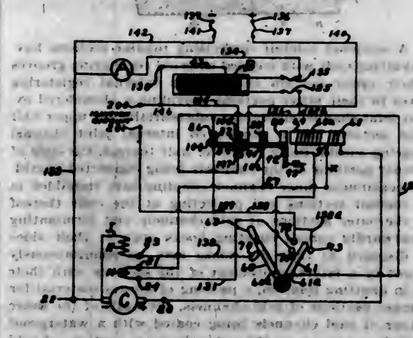
1. A sand trap including an upper section and a base, said base having openings formed therein, distributing pipes disposed within the openings, an air nozzle located between the pipes, said air nozzle adapted to split a column of sand entering the sand trap to cause the same to move laterally into the discharge pipe.

1,396,308. MEASURING DEVICE. JOHN THOMPSON WILSON, Jersey City, N. J. Filed Aug. 20, 1920. Serial No. 404,884. 2 Claims. (Cl. 33—111.)



1. A measuring device consisting of a body having a scale along one of its edges with division lines indicating units and fractions thereof, and another scale along said edge with division lines which indicate units only and are at an angle to the division lines of the first scale, the units of one scale being different from those of the other yet bearing a definite relation thereto, and a slide movable along said body and provided, at the edge corresponding to the graduated edge of the body, with lines indicating fractions of a unit of the second-named scale.

1,396,309. ELECTRICAL SYSTEM. CLARENCE R. YOUNG, Leesburg, Ind. Filed Mar. 1, 1918. Serial No. 219,781. 9 Claims. (Cl. 290—35.)



1. In an electrical system the combination with an internal combustion engine, of a dynamo operatively connected with said engine, said dynamo having a shunt field winding and a series field winding, a storage battery, a load line circuit, circuit connections between the storage battery and the dynamo, circuit connections between the storage battery and the load line circuit, an engine ignition circuit connecting the battery and internal combustion engine, hand operated switching mechanism for controlling the engine ignition circuit, the shunt field circuit of the dynamo and the series field circuit, a second switching device for controlling the circuits between the load line circuit, battery, dynamo and also the engine ignition circuit, and an electromagnetic responsive device for operating the last mentioned switching device comprising a compound magnet coil, one winding of which is in series with the dynamo external circuit and the other winding of which is in series with the dynamo shunt field winding, the said load line circuit being connected to be supplied with current by the dynamo or by the battery in accordance with the position of said second switching device.

1,396,310. WHEEL CONSTRUCTION. ARTHUR H. ANTHONY and CHARLES E. NORDFELDT, Massillon, Ohio, assignors to The Massillon Steel Castings Company, Massillon, Ohio, a Corporation of Ohio. Filed Nov. 24, 1919. Serial No. 340,255. 2 Claims. (Cl. 301—22.)

1. A wheel having a fixed rim with a slot formed therein which extends inwardly from a side thereof, a demountable rim adapted to accommodate a tire with a valve stem thereon, a wedge ring for holding the rim to the fixed rim, a cover coöperating with the inner side and the outer side of the fixed rim and covering the said slot, said cover having an opening through which a valve stem



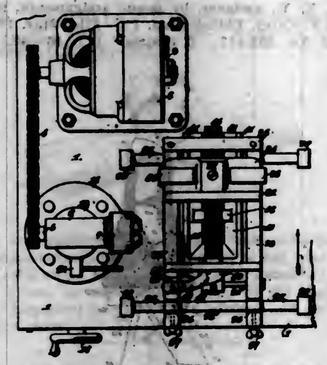
may extend and also provided with a portion adapted to extend between a surface of the fixed rim and the wedge ring.

1,396,311. SAFETY-CLASP. HARVEY V. BARLEY, Jersey City, N. J. Filed Jan. 27, 1920. Serial No. 354,391. 6 Claims. (Cl. 24—150.)



8. A clasp of the type indicated comprising a pin, a pivotal support for the pin, a post to be engaged by the pin, the pin having its end portion bent over upon itself to provide a hook, the opposite parts of which are spaced away from each other and adapted to receive the post between them, the post having a head thereon, the hook portion of the pin being of resilient material so that the opposite parts of the hook are resilient relative to each other and are thus adapted to snap over said head.

1,396,312. AUTOMOTIVE TEST UNIT. ELMER G. BEMELLER, Yuma, Colo. Filed Nov. 3, 1920. Serial No. 421,537. 9 Claims. (Cl. 73—51.)



1. In an automotive testing means of the character described, a suitable base or bed, a chuck carrying support, the said support including a bearing for the chuck head carrying shaft, means for holding equipment to be tested, the said means being supported upon the base, other means for effecting adjustment of the chuck carrying support at right angles to the equipment holder and means for adjusting the said holder laterally and longitudinally relatively to the said chuck head and means for effecting rotation of the chuck.

1,396,313. RUBBER BOOT, SHOE, GALOSH, SANDAL, &c. WILSON C. BELKNAP, New York, N. Y., assignor to Robert B. Miller, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 7, 1920. Serial No. 357,047. 4 Claims. (Cl. 36—59.)



1. A new article of manufacture, consisting of a boot, having an integral rubber heel with a main tread surface and a gripping tread surface adapted to be projected outwardly of the main tread, and an inner elevated portion extending upwardly above the heel toward the interior of the boot and adapted to be depressed by the weight of the wearer of said boot to project the gripping tread outwardly.

1,396,314. LIFTING-JACK. JOSEPH BERG, Little Rock, Ark. Filed Nov. 27, 1920. Serial No. 426,677. 2 Claims. (Cl. 254—102.)



1. A jack comprising a hollow standard having a lateral arm near its upper end, an outer screw mounted in the standard, an inner screw mounted in the outer screw, a gear fitted around and supported by the upper end of the standard and connected with the outer screw to rotate the same while permitting relative longitudinal movement thereof, an operating shaft mounted on the lateral arm of the standard and operatively connected to said gear, and a restraining brace pivoted at one end to the head of the inner screw and having a slidable connection at its opposite end with the operating shaft.

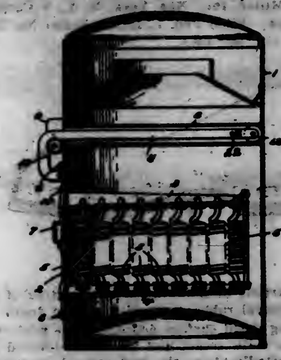
1,396,315. PROCESS FOR THE MANUFACTURE OF VEGETABLE GLUE. VICTOR G. BLOEDE, Catonsville, Md. Original application filed Nov. 27, 1917, Serial No. 204,200. Divided and this application filed Oct. 22, 1920. Serial No. 418,780. 1 Claim. (Cl. 87—17.)

The process herein described for the production of vegetable glue consisting in forming a paste or jelly of starch by first mixing the dry starch to a smooth cream with cold water, heating this composition to the point where the starch jellifies and then intimately combining with said paste or jelly a starch coagulating agent in basic form.

1,396,316. EVAPORATOR-HEATING-UNIT-REMOVING ATTACHMENT. STEPHEN B. BOSSARTT, Hampton, N. J. Filed Jan. 29, 1921. Serial No. 440,919. 7 Claims. (Cl. 202—5.)

2. An evaporator comprising a shell, a removable heating unit therefor, a tube carried by the shell, means con-

nected to the heating unit and extending into the tube for supporting the heating unit when removed from the



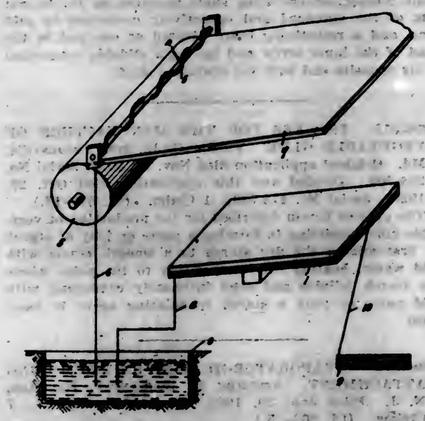
shell, and means for locking the heating unit against movement when so removed.

1,396,317. CASING-ELEVATOR. ARTHUR J. BOYTER, Temple, Tex. Filed Sept. 15, 1920. Serial No. 410,390. 8 Claims. (Cl. 294—102.)



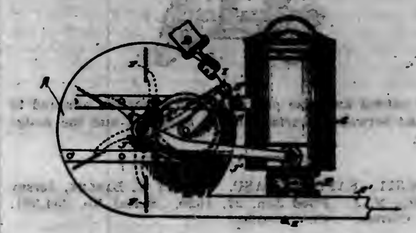
1. In a casing elevator a pair of pivotally connected sections combining to form an annulus, diametrically opposed jaws pivotally connected with said sections and having their opposed faces roughened, a bail pivotally connected with each of said jaws and means for securing the sections about a casing.

1,396,318. ANTISTATIC FRICTION DEVICE. AUGUST BUNGER, Hoboken, N. J. Filed July 15, 1920. Serial No. 396,408. 2 Claims. (Cl. 175—264.)



1. A mechanism to discharge static electricity from sheet material including an antenna having a supporting member, a spiniform conducting body coiled on said member and engageable with the material and means in conducting relation with the body to discharge electricity collected thereby.

1,396,319. AIR-BLAST SPRAYER. ALVIN B. CHAPLIN, Tuckahoe, N. Y., assignor of one-half to Robert McWilliam, New York, N. Y. Filed May 25, 1920. Serial No. 384,019. 5 Claims. (Cl. 48—148.)



1. The combination with a rotary fan, its casing, and a conduit leading from the latter, a downwardly discharging reservoir pivoted to the casing above the conduit to rock slightly back and forth, a flexible tube connecting the reservoir to the conduit and permitting such slight rocking, and means for simultaneously rotating the fan and rocking the reservoir on its pivotal axis.

1,396,320. METHOD OF OBTAINING A SODIUM SALT FROM A HYDROCARBON MONOSULFONIC ACID. ROBERT M. COLE, Sandusky, Ohio. Filed Dec. 8, 1919. Serial No. 342,292. 2 Claims. (Cl. 23—24.)

1. The improved process of obtaining a precipitation of a sodium hydrocarbon sulfonate, which consists in the sulfonation of an aromatic hydrocarbon in the presence of an excess of hydrocarbon and then adding thereto a highly ionisable salt.

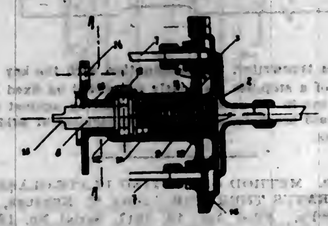
1,396,321. WALKING DOLL. HARRY H. COLEMAN, New York, N. Y., assignor, by mesne assignments, to Lawrence F. Carey, Philadelphia, Pa. Filed Mar. 18, 1919. Serial No. 283,417. 6 Claims. (Cl. 46—40.)



1. A walking figure toy having limbs composed of relatively movable sections provided with oppositely inclined end-faces at the knee, and self-contained spring-hinges whose leaves are connected to the respective inclined end-faces of the sections, said spring-hinge being wholly disposed between, and housed by, the adjoining inclined end-faces of the said sections.

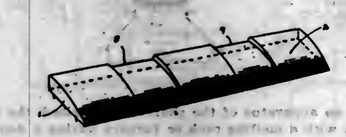
3. A walking figure toy having a body, independently movable legs pivoted to the body, coil springs coöperating with the body and with the respective legs, respectively adapted to throw the legs independently forwardly, each leg having its upper end arranged to directly engage the body at predetermined limits of both its rearward and forward movements.

1,396,322. CARBURETED-AIR DISTRIBUTER FOR EXPLOSION-ENGINE STARTERS. EMILE PAUL DUMANOIS, Levallois-Perret, France. Filed Sept. 22, 1919. Serial No. 325,587. 3 Claims. (Cl. 123—180.)



1. A distributer of carbureted air under pressure for internal combustion engines, comprising a shaft, means operated from the engine for driving said shaft, a casing having an inlet opening and a flat seat provided with a number of outlet openings disposed on a circle concentric with the shaft, means for connecting said outlet openings to the respective cylinders of an explosion engine, in a suitable order, a valve adapted to control said outlet openings, said valve being mounted slidably on the shaft, means for driving the valve by the shaft, means for permitting a small longitudinal movement of said valve, means whereby the valve is tightly forced against its seat by the carbureted air flowing under pressure into the casing and means for normally maintaining the valve away from its seat.

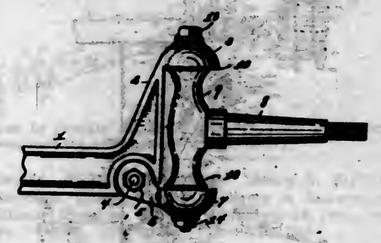
1,396,323. ARCH-SUPPORT. PATRICK DUNNE, San Francisco, Calif. Filed Nov. 2, 1920. Serial No. 421,435. 2 Claims. (Cl. 248—20.)



1. An arch support for the human foot consisting of a wedge shaped rectangular block having a flat base, three vertical sides and a convex upper surface extending downwardly to form an edge with the base of the block, and channels depressed in the convex surface and extending across the block.

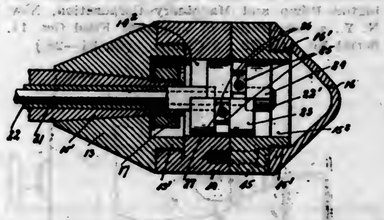
1,396,324. ADJUSTABLE KNUCKLE-JOINT FOR AUTOMOBILES. FREDERICK GIESLER, Irvington, N. J., assignor of one-half to Julius Glee, Irvington, N. J. Filed Dec. 21, 1917. Serial No. 208,226. Renewed Aug. 18, 1921. Serial No. 493,487. 1 Claim. (Cl. 280—96.1.)

In a device of the class described, an axle end provided with an upwardly extending arm terminating in an outwardly extending and apertured semi-spherical socket or bearing, an adjustable bracket provided with an outwardly extending and apertured semi-spherical socket or bearing pivotally secured to the lower portion of said axle, and a bolt engaged with the lower end of said axle and adjustable bearing whereby the same may be locked in adjusted position, a movable axle spindle provided with an elongated apertured knuckle, the ends of said knuckle being semi-



spherical and designed to be received into, and operate in, the said semi-spherical sockets or bearings, and a spindle engaged with the apertured bearings and the knuckle whereby the same may be locked in adjusted position.

1,396,325. PROPELLER-SHAFT. WALTHER GLOOR, New York, N. Y. Filed Mar. 2, 1921. Serial No. 449,175. 15 Claims. (Cl. 170—162.)



1. In a screw propeller, the combination with a propeller shaft of independent members movable longitudinally of and revolving with said shaft, a propeller hub secured to said propeller shaft, slides in said members and propeller blades borne in said hub and adapted to engage said slides, so that by the displacement of said members, said blades will be turned on their longitudinal axes to reverse the direction of propulsion.

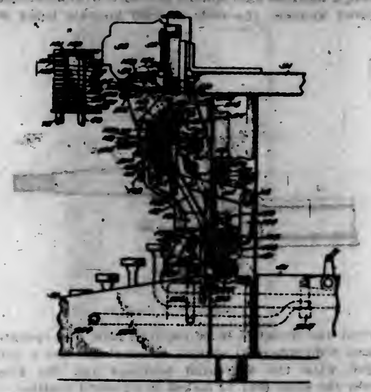
1,396,326. CALCULATING-MACHINE. HYMAN ELI GOLDBERG, (now by judicial change of name Hyman Golber,) Chicago, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y., a Corporation of New York. Continuation of application Serial No. 743,139, filed Jan. 20, 1913. This application filed Mar. 18, 1918. Serial No. 223,184. 36 Claims. (Cl. 235—59.)

3. In a calculating machine, the combination of a decimal set of digital members each displaceable from a zero position to represent a digit, a cam, an automatic mechanism for engaging said digital members *oscistim* and locating said cam in a sequence of positions determined by the displacements of said digital members.

26. In a calculating machine, the combination of a totaliser containing a total, automatic total printing mechanism adapted to print said total digit by digit, and means which can be set to cause said total either to be subtracted from said totaliser or added thereto as an incident of the operation of said total printing mechanism.

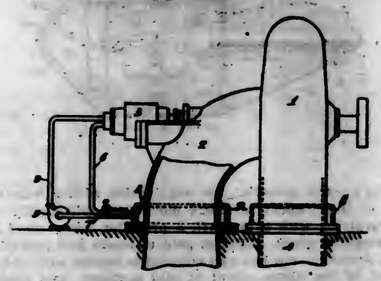
28. In a calculating machine, the combination with a totaliser and means for actuating said totaliser to register

positive and negative numbers, of automatic means for printing the digits of the true total services at a common



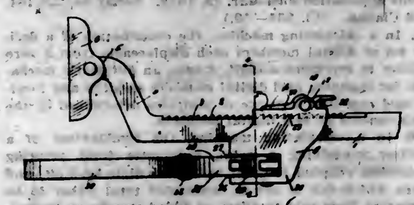
printing center, the positive total when the totalizer registers a positive number and the negative total when the totalizer registers a negative number.

1,396,327. **WATER-TURBINE AND THE LIKE.** MAX HABBERLEIN, Mountain Lakes, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Oct. 11, 1920. Serial No. 416,222. 3 Claims. (Cl. 64—28.)



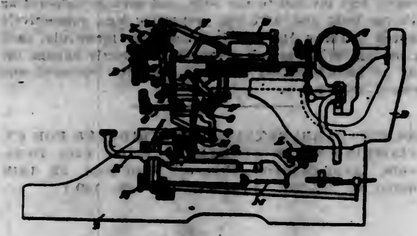
1. The combination with the water conduit of a water turbine or the like, of an oil-cooling chamber located on the exterior thereof and one of the walls of which is formed by said conduit, a bearing, and oil circulating connections between the bearing and chamber.

1,396,328. **RADIATOR-CARRIER.** CHARLES G. HALL, FRANCIS A. DEVERMAUX, and ALBERT E. CROSS, International Falls, Minn. Filed Apr. 12, 1920. Serial No. 373,272. 15 Claims. (Cl. 294—15.)



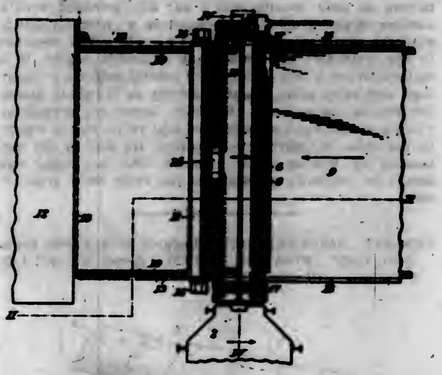
1. A radiator lifter consisting of a shank, tongs connected therewith, and a sliding block to which the tongs are connected.

1,396,329. **TYPEWRITER.** ANSON KIRK, Boston, Mass. Filed Jan. 14, 1920. Serial No. 351,501. 6 Claims. (Cl. 197—182.)



1. In a typewriter, the combination with the key levers thereof, of a stop-bar resiliently supported on fixed brackets, the bar in its normal position bearing against a portion of said brackets, and a cushion member at said bearing points.

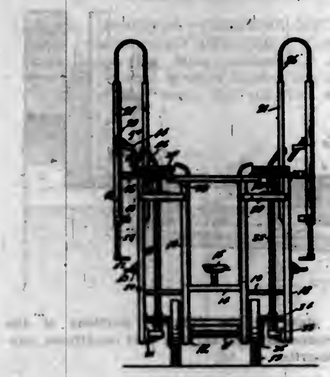
1,396,330. **METHOD OF CASTING PLATE-GLASS AND APPARATUS THEREFOR.** JOHN W. KUNZLER, Pittsburgh, Pa. Filed Apr. 19, 1917. Serial No. 168,134. Renewed Mar. 25, 1921. Serial No. 455,496. 7 Claims. (Cl. 49—2.)



1. In an apparatus of the character described, the combination with a melting tank or furnace having a delivery opening, a refractory delivery spout or sleeve seated in said opening and projecting beyond the face of the wall of the furnace, the upper edge of the opening through the spout being below the normal level of the glass in the furnace, of a rotary receptacle surrounding the projecting portion of said sleeve and having a casting or delivering opening, and means for heating the glass in said receptacle other than the heat from the furnace, whereby the temperature of the molten glass therein may be controlled; substantially as described.

7. The method of casting plate glass, comprising the steps of continuously feeding molten glass into a tiltable vessel, periodically tilting said vessel to pour the molten glass therein onto a casting table across the face thereof, and during such pouring operation moving the table in a direction at right angles to the axis of the vessel to spread the glass in the form of a sheet on the table and during such movement moving the table and glass under a sheet-forming roller to roll the glass to the required thickness; substantially as described.

1,396,331. **BROOM-CORN-TABLING MACHINE.** THOMPSON K. LAND, Valley Mills, Tex. Filed Aug. 5, 1920. Serial No. 401,470. 7 Claims. (Cl. 56—82.)



1. In a broom corn tabling machine, the combination of a wheel supported frame, a pair of gathering members mounted on the frame, bending members carried by the frame, and swinging members above the bending members and arranged to swing to bend the stalks over the bending members and deliver the same in rear of the frame.

1,396,332. **MACHINE-TOOL.** EVARTS G. LOOMIS, Newark, N. J. Filed Apr. 25, 1919. Serial No. 292,589. 21 Claims. (Cl. 10—8.)

10. In a machine of the class described, the combination of a work-table, tool-sustaining means, hydraulic means for reciprocating the work-table and for adjusting the tool-sustaining means relatively thereto, whereby the tool-sustaining means will be actuated in a direction away from the work-table as the latter is moved in one direction, and into operative position relatively to the work-table prior to the latter moving in the reverse direction, the degree of the last-named movement of the tool-sustaining means being controlled automatically.

1,396,333. **FUSE.** CLARENCE T. MCDONALD, Chicago, Ill., assignor, by mesne assignments, to Chicago Fuse Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed July 23, 1919. Serial No. 312,696. 3 Claims. (Cl. 200—132.)

3. In cartridge fuses of the type having a terminal and a gasket through which the terminal passes, a retaining member for said gasket having a slot adapted to receive said terminal, said slot being shaped to fit said terminal closely throughout a portion of its periphery and being enlarged to provide clearance space adjacent said terminal throughout the remainder of its periphery.

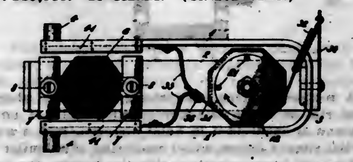


1,396,334. **ELECTRIC MOTOR.** LESLIE R. MCDONALD, Montreal, Quebec, Canada, assignor to Marguerite V. O'Leary, Montreal, Canada. Filed June 16, 1916. Serial No. 104,095. 25 Claims. (Cl. 172—126.)



1. Apparatus of the character described comprising a rotor, a belt contacting with the periphery of the rotor, and means for imparting a wave motion to the belt so as unidirectionally to rotate the rotor.

1,396,335. **CONSTANT-SPEED VIBRATING MOTOR AND METHOD.** LESLIE R. MCDONALD, Montreal, Quebec, Canada, assignor to Marguerite V. O'Leary, Montreal, Quebec, Canada. Filed Dec. 28, 1916. Serial No. 139,333. 19 Claims. (Cl. 172—126.)



19. The method of maintaining the angular velocity of a rotary member constant during variable loads comprising varying the effective leverage of the recurrent force in proportion to the amount of load whereby the driven member will continue to rotate in synchronism with the driving member.

1,396,336. **DIRECT-CURRENT VIBRATORY MOTOR.** LESLIE R. MCDONALD, Montreal, Quebec, Canada, assignor to Marguerite V. O'Leary, Montreal, Quebec, Canada. Filed Dec. 28, 1916. Serial No. 139,334. 11 Claims. (Cl. 172—126.)

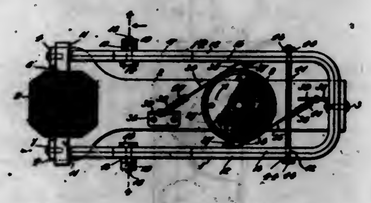
7. Motor apparatus comprising an oscillatory driving member, a circuit for supplying energy, oscillatory means independent of the oscillatory driving member for inter-

mittently closing the circuit, and an electromagnet responsive to the energy for actuating the oscillatory member and



means, the oscillatory member and means being tuned to oscillate in synchronism.

1,396,337. VARIABLE AMPLITUDE OF VIBRATION-MOTOR AND METHOD. LESLIE R. MCDONALD, Montreal, Quebec, Canada, assignor to Marguerite V. O'Leary, Montreal, Quebec, Canada. Filed Dec. 29, 1916. Serial No. 139,448. 8 Claims. (Cl. 172—126.)



2. Motor apparatus comprising a vibratory member having a magnetic portion and a portion of different magnetic properties, and means for directing a varying magnetic flux through the vibratory member in such manner as to vibrate the member.

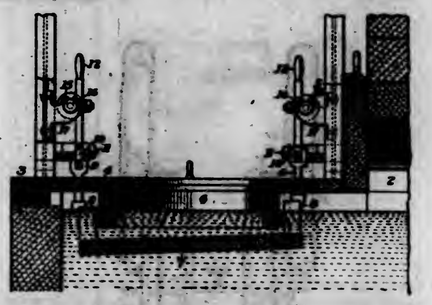
1,396,338. TOOTHED GEARING. MAX MAAG, Zurich, Switzerland. Filed Apr. 14, 1920. Serial No. 373,940. 3 Claims. (Cl. 74—41.)



1. A toothed gearing, comprising a driving wheel the toothed rim of which is provided with teeth of uniform height and is subdivided in axial direction into a number of partial rims, a driven wheel consisting of a similar number of partial rims co-acting with the former, the partial rims being provided with teeth the thickness of which varies from rim to rim in accordance with the torsional displacements of the rims against each other caused by the transmitted power.

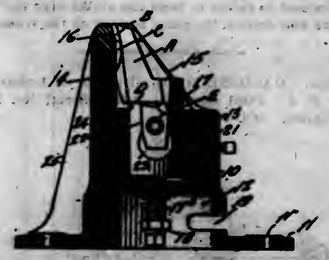
1,396,339. METHOD OF DRAWING GLASS. WILLIAM L. MONRO, Pittsburgh, Pa., assignor to Window Glass Machine Company, Pittsburgh, Pa., a Corporation of New Jersey. Original application filed Feb. 18, 1916, Serial No. 79,059. Divided and this application filed July 17, 1916. Serial No. 109,606. 2 Claims. (Cl. 49—83.1.)

1. In the method of drawing glass articles wherein the draw is made from a portion of a molten bath which is above a submerged diaphragm, the step which consists in adjusting the level of one part of the submerged diaphragm relatively to another part thereof, to thereby vary the



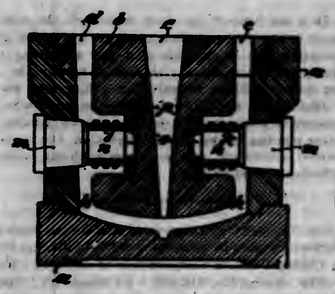
depth of the glass at the different portions of the diaphragm to compensate for varying heat conditions, substantially as described.

1,396,340. DRESSING-BLOCK. GUSTAVUS A. MONTGOMERY, Dallas, Tex., assignor of one-half to The Guiberson Corporation, Dallas, Tex., a Corporation of Delaware. Filed Aug. 2, 1920. Serial No. 400,607. 10 Claims. (Cl. 76—96.)



1. In a dressing block, a support, a core carried by the support and having an opening for receiving a tool to be dressed, an anvil member projecting above the core for supporting the tool, and a dressing shoulder on the anvil member.

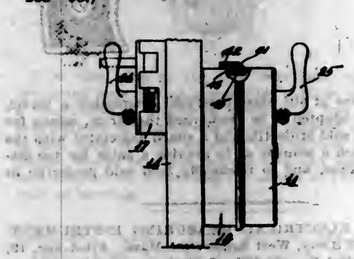
1,396,341. CASTING AND MOLD THEREFOR. ARTHUR RAUTENBACH, Solingen, Germany. Filed July 27, 1920. Serial No. 399,342. 2 Claims. (Cl. 22—126.)



1. In a mold for the purpose described, a shell provided with coaxial borings for the insertion of bolts, and bolts

therein having at their inner ends cylindrical projections adapted to bear upon the inner projections of the journals which are to be incorporated in the casting.

1,396,342. COUNTER-OPERATING MECHANISM FOR COIN-CONTROLLED DEVICES. WARREN CHALMERS REES, Somerville, Mass., assignor to Aseptic Service Company, Boston, Mass., a Corporation of Maine. Filed Aug. 11, 1920. Serial No. 402,870. 4 Claims. (Cl. 235—98.)



1. In a coin-controlled device, the combination of a casing having a coin receiving slot, a mechanical counter provided with an oscillatory arm adjacent to said slot, and counter-operating mechanism adapted to operate the counter by oscillating the arm thereof, said mechanism including a biased counter-arm engaging member normally obstructing the slot, displaceable by force exerted through a coin inserted in the slot, and engaging the counter arm to move the latter in one direction, a coin-releasing member operable from the exterior of the casing, and an unbiased arm-engaging member, movable by force exerted through said coin-releasing member to move the counter-arm in the opposite direction, the counter-arm being formed to coöperate with the members contacting therewith, said unbiased member being movable alternately by the counter-arm and by the coin-releasing member.

1,396,343. CLUTCH. BAYARD E. RICHARDSON, Grand Rapids, Mich., assignor to Mechano Gear Shift Co., Grand Rapids, Mich., a Corporation of Michigan. Filed Nov. 13, 1918. Serial No. 262,383. 3 Claims. (Cl. 192—46.)



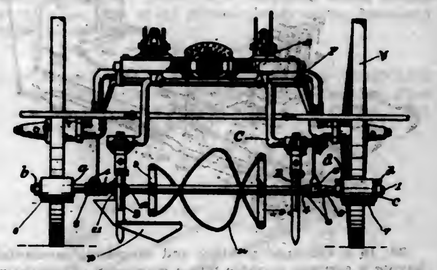
1. In combination, two shafts located in alinement, a housing fixed at one end of one of said shafts, a cylindrical head fixed to the adjacent end of the other shaft and located within the housing, said head being provided with a notch in a side thereof, plates located one at each side of the head, a key pivotally mounted on and between the plates and adapted to be wholly received within the notch in said head, the outer side of said key having the same radius of curvature as the head so as to aline therewith when in the notch, and a tongue projecting inwardly from the housing and provided with a series of notches, any one of which may partially receive the key, substantially as described.

1,396,344. FASTENING FOR ATTACHING BRACES AND FOR OTHER PURPOSES. CESARE ROMATI, Turin, Italy. Filed Jan. 10, 1921. Serial No. 436,283. 2 Claims. (Cl. 24—90.)



1. A removable fastening with button, to be applied more particularly to trousers for attaching braces, and for other purposes, characterised by a back plate and a front counter-plate intended to be fixed in proximity of the edge of the cloth or band of the trousers on both sides thereof, the back plate being provided with two projections passing through the cloth into suitable openings of the counter-plate, one of the said projections being screwthreaded and adapted to receive a pressing button serving for the attachment of the braces, while the other projection is ended by a mushroom-shaped head, a fixing plate slidingly mounted on the counter plate and engaging together with the latter in an annular groove of the pressing button, the said fixing plate being provided with an eye-shaped opening intended to engage below the mushroom-shaped head of the projection of the back plate for the purpose of fixing the whole into position.

1,396,345. INSECT-CATCHER. WILLIAM C. RYAN and GROVER C. RUHMANN, Kenedy, Tex. Filed Sept. 1, 1920. Serial No. 407,389. 3 Claims. (Cl. 43—142.)

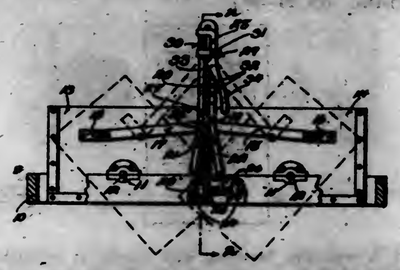


1. The combination with a body and supporting wheels therefor; of hangers pivotally engaged with the body, a shaft rotatably supported by the hangers, a pulley fixed to the shaft and normally contacting with one of the supporting wheels whereby the shaft is driven from said supporting wheel, a spiral member encircling the shaft and carried thereby, and a collecting pan carried by the body below the shaft and an end of the spiral member, the hangers being vertically adjustable with respect to the body.

1,396,346. FURNITURE-POLISH. ALBERT N. SCHEIM, Philadelphia, Pa., assignor to Louis Levinson, Philadelphia, Pa. Filed Jan. 17, 1920. Serial No. 352,131. 9 Claims. (Cl. 134—24.)

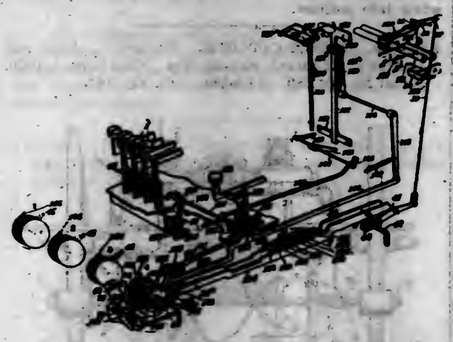
1. As a new article of manufacture, a polishing material comprising an emulsion of an oleaginous body and an aqueous acidulated solution in substantially equal proportions, in solution with a mixture comprising butter of antimony and carbon tetrachlorid in equal proportions, materially less than the amount or volume of ingredients of the emulsion.

1,396,247. CLAMSHELL-DUMPING DEVICE. Alexander Stewart, Waupaca, Wis. Filed Dec. 6, 1920. Serial No. 428,768. 7 Claims. (Cl. 296—38.)



1. In a device of the character described, a dumping container composed of two complementary sections operable by gravity to dump their load, releasable locking means normally holding them against dumping, and adjustable means for limiting their dumping movement and for locking them against return movement.

1,396,248. COMBINED TYPEWRITING AND COMPUTING MACHINE. Burnham C. Stickney, Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Feb. 20, 1919. Serial No. 278,196. 109 Claims. (Cl. 235—60.)

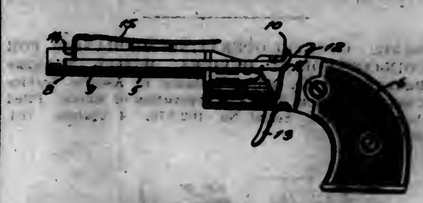


38. In a combined printing and computing mechanism having a carriage movable into a succession of computing zones, the combination with a type, of means to cause said type to print, and means connected to said printing means for disabling the computing mechanism in certain of said zones, while permitting operation of the computing mechanism in certain of the remaining zones.

53. In a combined printing and computing machine having numeral keys and a carriage, the combination with means for selectively printing on a work-sheet any one of a plurality of special characters to designate a corresponding one of a plurality of different computing zones, of means controlled by said printing means, for selectively preventing computation in any of said zones except the one so designated.

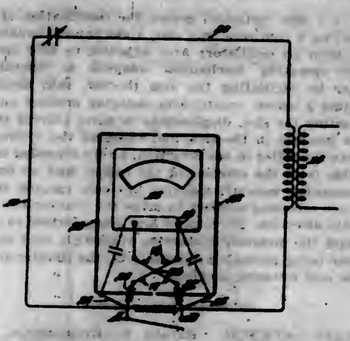
107. In combination, a computing mechanism including numeral keys, a carriage movable into a succession of computing zones relative to said computing mechanism, a numeral-key-locking device, a device for releasing said numeral-key-locking device settable to effective condition for certain predetermined zones, and means whereby the numeral-key-locking device may be rendered effective and the releasing device may be set to effective condition for a predetermined zone concomitantly.

1,396,249. GUN. Rudolf Thum, Baldwin, N. Y. Filed Mar. 5, 1921. Serial No. 449,898. 4 Claims. (Cl. 124—14.)



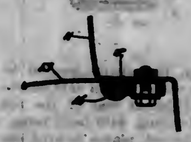
1. A device of the class described comprising a barrel, a projectile adapted to be discharged therefrom, means for discharging said projectile and a guard associated with the barrel in such a manner as to provide a guide for the discharging means, and to releasably hold said projectile in place.

1,396,250. ELECTRICAL MEASURING INSTRUMENT. Leon T. Wilson, West Somerville, Mass. Filed Apr. 19, 1920. Serial No. 374,926. 7 Claims. (Cl. 171—95.)



6. A measuring instrument for high frequency circuits comprising a galvanometer, a thermo-couple electrically connected therewith, connections between the thermo-couple and a high frequency circuit to be measured, and capacity in shunt with each half of the thermo-couple to provide a path for the flow of stray displacement currents.

1,396,251. VEHICLE-FENDER MOUNTING. Guido G. Buhn, Detroit, Mich., assignor to Essex Motors, Detroit, Mich., a Corporation of Michigan. Filed Nov. 17, 1919. Serial No. 338,598. 5 Claims. (Cl. 280—154.)



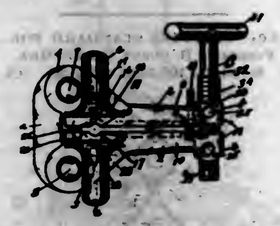
1. In combination, a sheet metal fender, a vehicle body, and a clamp mounted on the vehicle body at one side of the fender, a bolt for securing said clamp in place, said clamp extending transverse to the length of the fender and overlapping the edge of the fender and thus serving to secure the latter in place without passing the securing bolt through the fender.

1,396,252. FUSE-PLUG. Ralph C. Bronson, Chicago, Ill., assignor to Multiple Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 2, 1917. Serial No. 159,055. 6 Claims. (Cl. 200—125.)



6. A fuse plug of the type described, comprising an insulating body having a separable portion, provided with a longitudinally extending channel; a fuse arranged in said channel having an end secured between an inner face of said body and the adjacent face of said portion; and barrier means extending across said end and the end of said channel for preventing the escape of particles of said fuse on blowing.

1,396,253. CLAMP. Steve Bullum, San Luis Obispo, Calif. Filed Apr. 26, 1921. Serial No. 464,732. 7 Claims. (Cl. 24—135.)



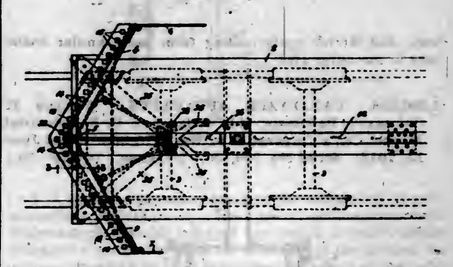
4. A cable clamp, including a link; jaw members pivoted to said link; slips carried by the jaw members and adapted to grip the cable between them; and means for relatively adjusting the jaw members and for maintaining the same in such adjustment; said jaw members being bifurcated at their free ends, and the said means for relatively adjusting the jaw members including screw socket members received between said bifurcated ends; one of said screw socket members being swivelly mounted in the bifurcated portion of one of the jaws, the other jaw member being formed with a grooved extremity, with the screw socket member in said jaw provided with means for engaging said grooved extremity; there being an oppositely pitched screw in engagement with said screw socket members whereby the jaws may be opened or closed; said screw socket members each being provided with a perforated ear, there being a guide rod passing through said perforated ears for maintaining the screw socket members in alinement.

1,396,254. PEN-NIB EXTRACTOR. Ernest V. Butt, Ottawa, Ontario, Canada. Filed Oct. 12, 1920. Serial No. 416,442. 2 Claims. (Cl. 120—97.)



1. A pen nib extractor consisting of a body portion, a perpendicular slot in said body portion, slidable members in said slot, an engaging member carried by one of said slidable members, said last slidable member being tapered larger at its lower end so that said engaging member will press against the other of said slidable members for a predetermined distance and a means for reciprocating said members in said slot for extracting a pen nib from a holder.

1,396,255. TRACK-CLEARING EQUIPMENT. Louis Philip Chicoine, Vaudreuil, Quebec, Canada. Filed July 3, 1919. Serial No. 308,656. 8 Claims. (Cl. 37—57.)



1. In a track-clearing device the combination with a carrier, of a horizontally disposed channel iron carried by the carrier and being of angular form in longitudinal section, said channel iron including flanges having a plurality of openings therein, a series of substantially vertical cutters projecting upwardly through the openings in said flanges, fixed means upon the cutters for preventing upward displacement thereof and removable means located at the upper ends of the cutters for preventing downward displacement thereof.

1,396,256. SAFETY-STOP FOR MOTOR-VEHICLES. John George Clark, Paisley, Ontario, Canada. Filed Aug. 6, 1920. Serial No. 401,714. 4 Claims. (Cl. 188—30.)

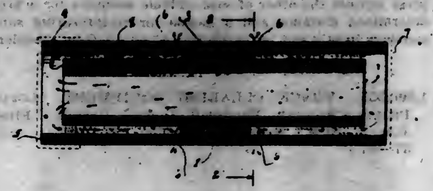


1. In a motor vehicle and in combination with the transmission shaft thereof, a clutch member fixed to the shaft, a second clutch member loosely mounted in the shaft, means for moving the second clutch member into contact with the first clutch member, and means coacting with the second clutch member to prevent the rotation of the same and the said shaft when the two clutch members are in engagement.

1,396,257. TUBE FOR FUSES. John G. Clemens, Buffalo, N. Y. Filed Oct. 18, 1920. Serial No. 416,704. 3 Claims. (Cl. 200—131.)

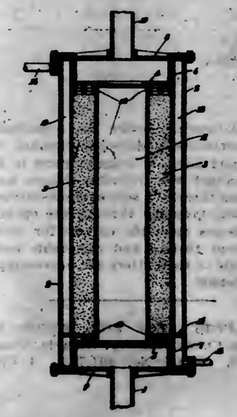
1. A casing for fuses having a central bore open at its ends and provided with annular chambers in its end portions, the wall of the casing having portions extending beyond the said annular chambers and the inner bore of the

casing to receive end caps whereby to establish communication between the said annular chambers and the said



bore, and lateral vents leading from said annular chambers to the outer air.

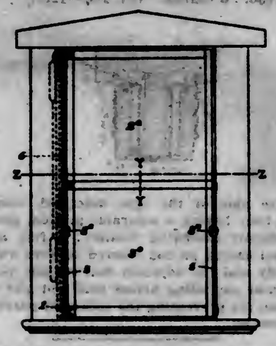
1,396,358. CATALYZER APPARATUS. WILLIAM F. COCHRANE, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed June 13, 1918. Serial No. 239,736. 2 Claims. (Cl. 23—24.)



1. In a catalyser apparatus for the transformation of an organic body during application of heat thereto, an outer cylindrical heating chamber, an annular catalytic chamber therein having openings near its ends and containing a pervious catalytic material, conduits respectively for the introducing of the organic body and for the withdrawal of the transformation products and connected with said openings, an inner heating chamber being formed by the inner wall of said annular catalytic chamber, pipes connecting said inner heating chamber with said outer heating chamber and inlet and outlet pipes for the introduction and withdrawal of the heating medium from said heating chamber.

1,396,359. WINDOW CONSTRUCTION. JULIA HANNAH CROOK and JOHN EDWARD CROOK, Remuera, Auckland, New Zealand. Filed Aug. 23, 1917. Serial No. 187,764. 1 Claim. (Cl. 268—4.)

In combination, upper and lower window sashes; a frame wherein said sashes are mounted for vertical movement independent of each other; screw-threaded sash-controlling rods mounted in said frame, one for each sash and extending substantially the entire length of the frame, both of said rods being mounted at the same side of the sash; screw-threaded collars pivotally carried by each sash and engaging the respective sash-controlling rods each sash being capable of being swung on its pivotal connections with the collars; a beveled gear for each rod geared thereto; a shaft rotatably and slidably mounted in said frame; a manually operated crank on said shaft; and a double



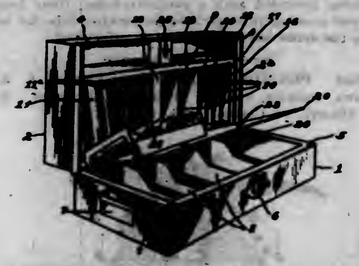
faced beveled gear mounted on said shaft and adapted to mesh with either of said beveled gears and to rotate the gear with which it meshes to move the sash associated therewith.

1,396,360. SHIPPING-STANDARD FOR AUTOMOBILES. FREDERICK H. CURRY, Detroit, Mich. Filed Aug. 23, 1920. Serial No. 405,550. 4 Claims. (Cl. 248—41.)



1. The improved shipping standard for automobiles comprising legs having an eye in which is a hub cap for engagement with a wheel of the automobile with which the standard is to be used.

1,396,361. CASH AND CURRENCY CONTAINER. JAMES L. DAVIDSON, Los Angeles, Calif. Filed July 2, 1919. Serial No. 308,087. 5 Claims. (Cl. 133—11.)



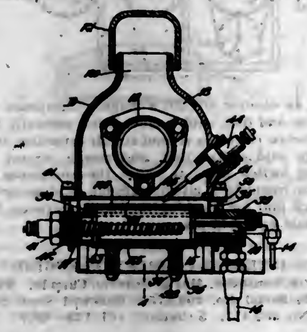
1. A coin and currency container, including a body portion, a cover hinged thereto, a coin-receiving plate arranged within the cover, a plate fitted between the body portion and cover portion, and a complemental coin plate carried by the retaining plate and arranged to occupy an opposed relation to the first mentioned coin plate.

1,396,362. FIRE-EXTINGUISHER AND METHOD OF MAKING SAME. DANA ESTES, Brookline, Mass. Filed July 3, 1919. Serial No. 308,463. 4 Claims. (Cl. 29—157.)



1. A method of making a curved tank outlet comprising the formation of a straight tube with its final degree of interior smoothness, followed by the bending of the tube from straight to curved formation.

1,396,363. STOVE FOR INTAKE-MANIFOLDS OF INTERNAL-COMBUSTION ENGINES. STEPHEN IVAN FERETS, Detroit, Mich., assignor to Essex Motors, Detroit, Mich., a Corporation of Michigan. Filed Nov. 5, 1920. Serial No. 421,891. 11 Claims. (Cl. 123—180.)



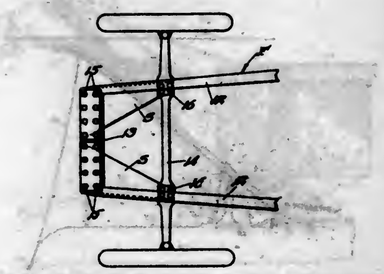
1. In combination with the intake manifold of an internal combustion engine, a burner for heating said manifold, said burner having a fuel pit, a reservoir, a pump for supplying fuel from said reservoir to said fuel pit, and pipe connections including an overflow pipe from the fuel pit to the reservoir.

1,396,364. WASHING AND RINSING MACHINE. ALEXANDER JOHN FISHER, Rochester, England. Filed Apr. 13, 1920. Serial No. 373,640. 1 Claim. (Cl. 68—37.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



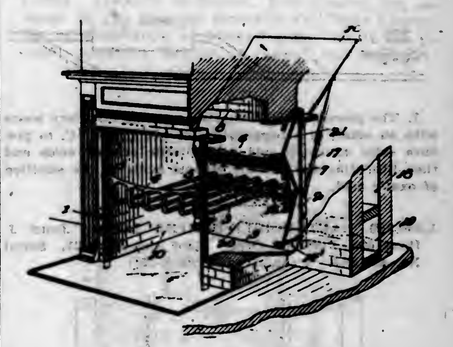
In a washing machine, the combination of a cylindrical tank, means secured to the said tank for pivotally supporting an operating lever above the said tank, a plunger hinged to said lever, a cruciform support rigidly secured to said plunger, a disk movable on the said plunger and adapted to act as a piston, and clips to connect the said disk to the said cruciform support.

1,396,365. SPRING SUSPENSION. ALBERT E. FEAY, Detroit, Mich., assignor to Essex Motors, Detroit, Mich., a Corporation of Michigan. Filed Apr. 28, 1920. Serial No. 376,117. 5 Claims. (Cl. 267—36.)



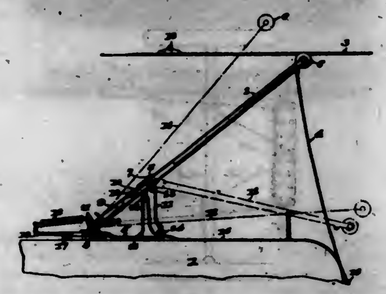
2. A spring suspension for vehicles comprising two independent springs in the same plane, each spring being composed of a single integral leaf which is substantially triangular when viewed in the direction of the flexure, the spring extending in the longitudinal direction of the vehicle, the base and the apex of each leaf constituting its attaching ends, one end being secured to the crossbar of the frame and the other end being secured to one of the axles.

1,396,366. FIREPLACE. ROBERT PRESTON GOFF, Gary, W. Va. Filed Jan. 10, 1919. Serial No. 270,561. 2 Claims. (Cl. 126—125.)



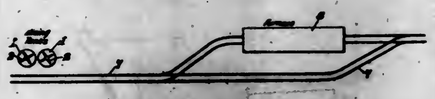
1. The combination with a fire place having openings communicating with adjoining rooms and an exhaust flue in communication with the fire place, of front and rear frames arranged within the fire place, a heat radiating fire back connected to the rear frame and disposed entirely in rear of the rear wall of the exhaust flue and having its upper portion approximately V-shaped in cross section thereby providing a forwardly extending portion rearwardly of the flue for directing the products of combustion forwardly into the flue and allowing the expansion of the fire back, a grate supported by said front frame and said fire back, a fender plate of heat insulating material horizontally hinged to said rear frame, said fender plate being arranged in spaced relation to said fire back thereby forming an air space, and means for supporting the fender plate in an inclined position.

1,396,867. TROLLEY-RETRIEVER FOR STREET-CARS. WELLESLEY R. HAMPDEN, Milwaukee, Wis., assignor of one-half to John C. Kleist and one-half to William F. Woolard, Milwaukee, Wis. Filed Aug. 28, 1918. Serial No. 251,747. 8 Claims. (Cl. 191—88.)



1. In a device of the described class, a trolley pole formed of two abutting sections hinged together, means at the hinge for retaining such sections in alinement with each other, means for automatically releasing such retaining means, and permitting the upper section of the trolley pole to drop to a position above the car, means for alining the lower section with the dropped section, and means for raising the pole when such sections are brought into alinement with each other.

1,396,868. PROCESS OF TREATING DISTILLERY WASTE. CARL HANER, Jr., Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Oct. 22, 1917. Serial No. 197,887. 10 Claims. (Cl. 23—24.)



1. The process which comprises treating distillery waste with an alkali at a temperature of 175 to 250° C. to produce salts of oxalic acid and volatile organic acids and then liberating the volatile organic acids by the addition of oxalic acid.

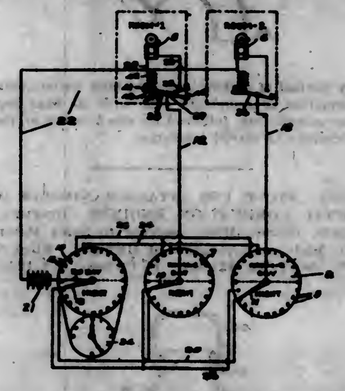
1,396,869. AUTOMOBILE-BUMPER LOCK. JOHN J. HARRISON, Portland, Oreg. Filed Aug. 16, 1921. Serial No. 492,684. 1 Claim. (Cl. 293—55.)



In combination with the bumper and front wheels of a motor vehicle, movable bars carried by the bumper, pivoted arms supported adjacent to the ends of the bumper, links connecting the movable bars and pivoted arms whereby movement of the bars produces a relative movement of the arms, and means for locking the bars against movement.

1,396,870. CLOCK-CONTROLLED ELECTRIC SIGNAL SYSTEM. JOHN F. HIELSCHER, Seattle, Wash. Filed Apr. 2, 1918. Serial No. 226,904. 1 Claim. (Cl. 161—2.)

In combination, a signaling system including indicating dials having spaced graduations forming contacts thereon to indicate the hours of a day, contact-arms pivoted to and movable over the dial, an electric circuit, an alarm for each dial, said alarms being connected to said circuit, pivoted oscillating switch arms for each dial and alarm and located in said circuit, said switch arm being normally in circuit between the indicating dials and said alarm, a circuit-closing dial located in said electric circuit and coöperating with said first-named dials and switch arms to



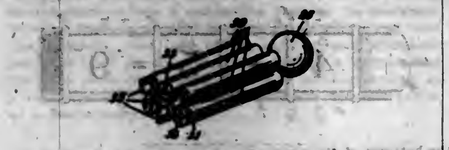
complete an electric circuit, a magnet interposed between each alarm and dial, said magnet being normally held out of said electric circuit, a second circuit extending from said magnet to said switch dial, and means carried by said oscillating switch arms to cause the energizing of said magnet to complete a circuit through said second circuit and switch dial for breaking the circuit between the indicating dials and said alarm.

1,396,871. INTERNAL-COMBUSTION ENGINE. ROBERT JOHNSON, Sault Ste. Marie, Ontario, Canada. Filed May 3, 1919, Serial No. 294,375. Renewed Sept. 26, 1921. Serial No. 503,471. 5 Claims. (Cl. 123—69.)



1. An internal combustion engine comprising a cylinder, a piston operable in said cylinder, said piston formed with a chamber, a member arranged in said cylinder and adapted for engagement within said piston chamber, means for drawing gas to said chamber during the power stroke of the piston, means for supplying air for admixture with the gas at the end of the working stroke of the piston, and lubricating means for the piston chamber.

1,396,872. COLLAPSIBLE CANE. FRANK KUTWICK, Montreal, Quebec, Canada. Filed Feb. 28, 1921. Serial No. 448,420. 3 Claims. (Cl. 135—45.)



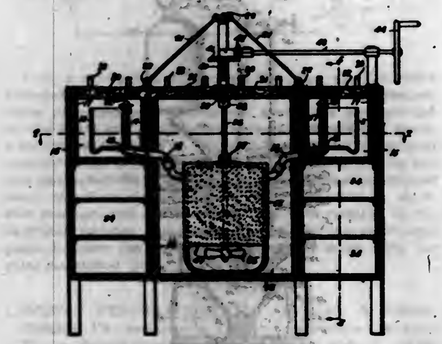
3. The combination in a collapsible cane such as described, of a pair of hinged sections, said sections having alining slots provided therein, a tongue secured in one of said slots for extension into the other, said tongue having lugs formed upon the opposite sides thereof, a lining for the slot in which the tongue is adapted for projection, said lining having depressions formed therein for receiving the projections of the tongue, and means for retaining the lining in position against displacement.

1,396,873. BOX-OPENER. EDWARD LASKOWSKI, Detroit, Mich. Filed Oct. 11, 1920. Serial No. 416,050. 5 Claims. (Cl. 226—43.)



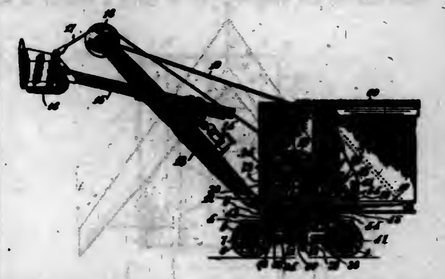
1. In a box opener, the combination with a box and a removable cover, of a rigid substantially U-shaped bracket adapted to have the legs thereof grip opposite sides of the box and having the portion of the bracket which connects said arms engaging beneath the bottom of said box and transversely spanning the same, whereby said bracket is detachably connected to said box, and means mounted on one of said legs and operable thereon for engaging beneath the cover when said bracket is mounted on said box for removing said cover.

1,396,874. ELECTRIC FURNACE. WALTER LOHREY, Bloomfield, N. J., assignor to Magna Metal Corporation, New York, N. Y., a Corporation of New Jersey. Filed May 21, 1921. Serial No. 471,368. 10 Claims. (Cl. 204—64.)



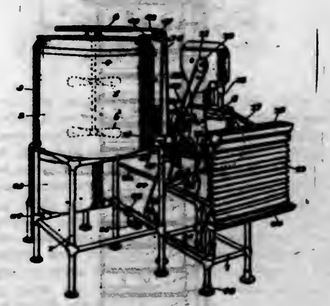
1. A furnace of the character set forth having separate independently controlled heating chambers, a mixing crucible and alloy metal crucibles in said chambers and connections for enabling flow of metal from said alloy metal crucibles to the mixing crucible.

1,396,875. POWER-SHOVEL OR EXCAVATING-MACHINE. CHARLES LOTTS, Marion, Ohio. Filed Jan. 30, 1920. Serial No. 355,089. 8 Claims. (Cl. 214—135.)



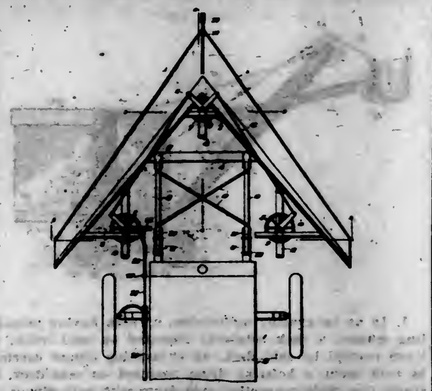
1. In an excavating mechanism, a truck having propelling wheels, a deck rotatably mounted on said truck, a boom carried by said deck, an excavating dipper carried by said boom, a hoisting drum mounted on said deck, a single line cable connecting said drum with said dipper, a gear connected with said drum, a hoisting and propelling engine mounted on said deck, a shaft for said engine, an intermediate shaft having geared connection with said engine shaft, a pinion secured to said intermediate shaft and meshing with the gear for said drum, a second pinion mounted on said intermediate shaft, a clutch to connect said second pinion with and disconnect the same from said intermediate shaft, and an operative connection between said second pinion and said propelling wheels.

1,396,876. APPARATUS FOR PRODUCING EMULSIONS. JAMES B. MCFADDEN, West Chester, Pa., assignor to The Sharples Separator Co., West Chester, Pa., a Corporation of Pennsylvania. Filed Aug. 9, 1920. Serial No. 402,268. 1 Claim. (Cl. 259—1.)



An apparatus for forming emulsions comprising a support, a mixer thereon, an emulsifier mounted on said support and having its inlet arranged below and receiving the discharge from the mixer, means for automatically controlling the flow from said mixer to said emulsifier, a cooler mounted on said support with its inlet arranged below and receiving the discharge from the emulsifier, a brine tank and pump mounted on said support and connected to said cooler, a motor on said support, and driving connections from said motor to said pump, mixer and emulsifier whereby agitated liquid automatically flows, without the use of a pump, from said mixer upwardly through said emulsifier into the top of the cooler.

1,396,377. SNOWPLOW. JACOB VICTOR MARTLAND, Virginia, Minn. Filed Mar. 18, 1920. Serial No. 366,765. 4 Claims. (Cl. 37—7.)



1. A snow plow comprising a pair of wings or shares meeting at an acute angle, and curved to smoothly deflect the snow to either side, a rigid connection between the said wings, means for connecting said plow to a motor vehicle to permit the plow to move freely vertically with respect to the vehicle, steering devices for the plow, and means for controlling said devices from the motor vehicle, said steering devices comprising shoes curved transversely and arranged with their concave faces downward, a shoe being arranged at each corner of the plow, and being connected to swing simultaneously in the same direction.

1,396,378. MUSIC-ROLL CABINET. GUIDO MERLO, Bristol, Pa. Filed Mar. 31, 1921. Serial No. 457,365. 5 Claims. (Cl. 45—7.)



1. The combination with a cabinet embodying a series of drawers, of means common to all of the drawers operative to automatically return any one of the drawers to closed position when drawn open and released.

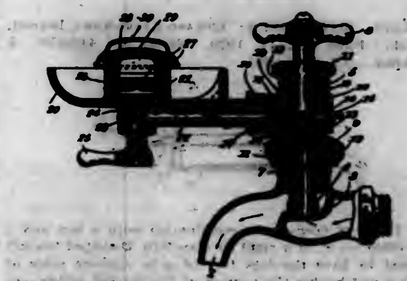
1,396,379. EDUCATIONAL DEVICE. EDWARD LE ROY MOORE, Eureka, Calif. Filed June 8, 1916. Serial No. 102,429. 22 Claims. (Cl. 35—9.)

4. Apparatus of the character specified consisting of a plate having block receiving compartments arranged alongside of each other, blocks for the compartments, slides having guided movement longitudinally of the plate at



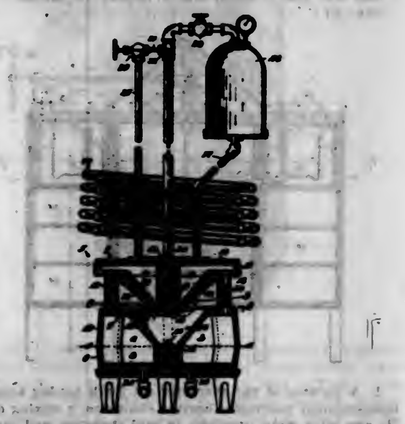
the bottoms of the compartment, the blocks and the slides having interengaging mechanism, and the arrangement of said mechanism being different in each compartment.

1,396,380. SANITARY DRINKING-FOUNTAIN. HORMIDAS MORIN and FRANK POTHIER, Sherbrooke, Quebec, Canada. Filed Feb. 24, 1919, Serial No. 278,717. Renewed Sept. 26, 1921. Serial No. 503,378. 2 Claims. (Cl. 299—9.)



1. The combination with a faucet having a valve and a valve stem therefor, of a cap for said faucet, a conical-shaped extension formed with said cap, said valve stem extending through said conical-shaped extension, a sleeve mounted upon said conical-shaped extension and communicating with said faucet, and a fountain carried by said sleeve.

1,396,381. BURNER. ELMER PEMBERTON, Hyde Park, Calif. Filed Jan. 10, 1921. Serial No. 436,226. 8 Claims. (Cl. 158—56.)



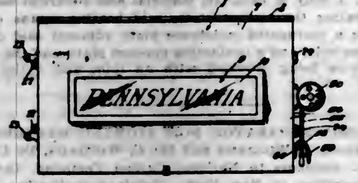
1. A burner comprising a hollow lower portion and a hollow upper portion, both of which are divided into a pair of chambers; the chambers in the lower member being in open communication with the chambers of the upper member; said upper and lower members being spaced apart to form a combustion chamber therebetween, whereby flames generated between the members will heat the chambers; one pair of the superimposed chambers being provided for the purpose of heating a hydrocarbon fuel, the other chamber in the lower member serving as a steam generator and the superimposed chamber acting as a steam superheater.

1,396,382. SANITARY BEDPAN. LOUISE PISTRAS, New York, N. Y. Filed Apr. 30, 1920. Serial No. 377,866. 3 Claims. (Cl. 4—19.)



1. A bed pan comprising a receptacle having an opening at the top and having a flat horizontal bottom and an open spout at its rear end part, and a hinged cover for said rear end part and spout, said receptacle being tapered at its forward end part and having an overhanging downwardly flanged part, and a hinged cover for the forward end of said opening, said cover having a flanged edge for engaging said flanged overhanging part, and locking means for maintaining said covers in open position.

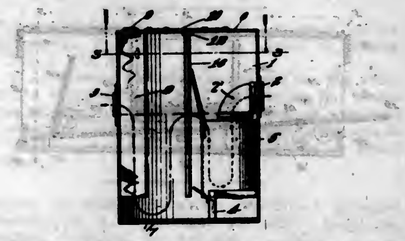
1,396,383. INDICATOR. JAMES J. REID, South Bend, Ind. Filed May 23, 1921. Serial No. 471,772. 5 Claims. (Cl. 40—53.)



1. In a mechanism of the class described, storage spools mounted for rotation, a display band wound thereon, gears connected with the spools, a shaft, a gear carried by the shaft and meshing with the first-mentioned gears, a second gear carried by the said shaft, a shaft mounted counter to the first-mentioned shaft, means for driving the last-mentioned shaft, spaced gears upon the last mentioned shaft rotatable therewith and slidable thereon, a shiftable member, and spaced yokes fixed with relation to the shiftable member and coacting with the last-mentioned gears to shift the same into and out of mesh with the third-mentioned gear.

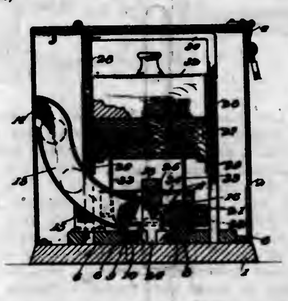
1,396,384. SEPARATING-TRAP. WILLIAM A. SHOAR, Decatur, Ill., assignor to Leader Iron Works, Decatur, Ill., a Corporation of Illinois. Filed Feb. 1, 1918. Serial No. 214,939. 3 Claims. (Cl. 210—56.)

1. A separating trap, including in combination a tank having an inlet connection and an outlet connection, a discharge compartment or passage inclosing said outlet connection and extending from the top of the tank to a point near the bottom of the tank, a removable receptacle located beneath the inlet connection adapted to receive the solid matter, a pipe connected to the top of the tank and leading to a point just above the water line and adapted to receive a pump so as to remove the oil and other



hydro-carbon therefrom, and another pipe leading from the top of the tank to a point in the same plane as the lower end of the discharge compartment or passage and adapted to receive a pump for removing the water from the tank.

1,396,385. COIN-CONTROLLED MECHANISM. FRED W. STICE, Tama, Iowa. Original application filed June 16, 1919, Serial No. 304,486. Divided and this application filed Nov. 22, 1919, Serial No. 339,876. Renewed Mar. 16, 1921. Serial No. 452,723. 1 Claim. (Cl. 194—80.)

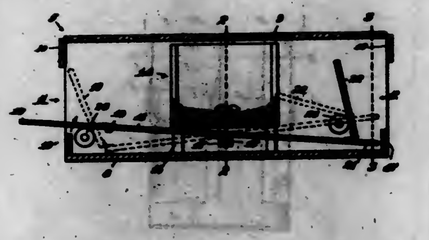


In a vending machine, the combination of a closed casing having a coin-discharge opening in its bottom, an ejector head resting on the bottom of the casing and having an open-bottom coin seat near one end and an open-ended notch extending across said seat and in communication therewith, a coin tube disposed laterally in the casing with its inner end adjacent and above the slide, a plunger arranged above the slide and provided in one side with a recess to receive a coin from the coin tube, a lateral arm extending from the opposite side of the plunger, a guide in which said arm plays, a tongue depending from the plunger and playing in the said open-ended notch whereby to move across the coin seat when no coin is deposited or to clamp the coin in said seat and actuate the slide when a coin is deposited, and means acting on the plunger to hold the same and the slide normally retracted.

1,396,386. TRAP-NEST. OSCAR STROMBORG, Los Angeles, Calif. Filed Jan. 29, 1920. Serial No. 354,944. 4 Claims. (Cl. 119—50.)

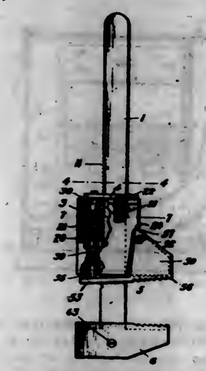
1. In a trap-nest, an open ended frame, a nest intermediate of and spaced from the ends of said frame, a rocker panel pivoted in said frame to extend beyond the opposite sides of said nest toward the open ends of the frame, a closure panel hinged on each end of said rocker

panel to swing vertically, and means engageable with said closure panels for operating same on rocking of the



rocker panel to alternately move said closure panels to their open and closed positions.

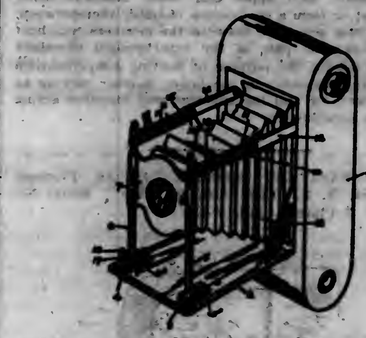
1,396,387. WRENCH. EDWARD CARLTON THOMPSON and WILLIAM HULBERT THOMPSON, Seattle, Wash., assignors of one-fourth to Robert McNair and one-fourth to Charles H. Long, Seattle, Wash. Filed May 20, 1919. Serial No. 298,512. 1 Claim. (Cl. 81—160.)



A wrench having a shank carrying an outer jaw, an inner jaw movable along the shank, means carried by said inner jaw whereby it may be locked to the shank at adjusted positions, a facing member for the inner jaw having wings embracing the working end of the jaw and having pivotal and shoulder bearing support therewith at a point well back from its working face and adjacent to the edge of the shank, said facing member having a loop passing about the shank, the inner jaw having a spring receiving recess at the back side of and extending lengthwise of the shank, a spring in said recess, and a plunger in said recess acted upon by the spring and engaging the loop of the facing member to swing it outward.

1,396,388. LENS-FRONT MOUNT. CARL VALL, Rochester, N. Y. Filed Dec. 4, 1920. Serial No. 428,235. 4 Claims. (Cl. 95—40.)

1. In a lens front mount for cameras the combination of a bed plate, a lens front, a pair of uprights adapted to support said lens front on said bed plate, a pair of bifurcated spring clips mounted on said bed plate, said uprights being adapted to engage said spring clips and be held rigidly in place on said bed plate by said spring clips.



1,396,389. CATALYZER APPARATUS. MILTON C. WHITAKER, New York, N. Y., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed June 28, 1918. Serial No. 242,443. 12 Claims. (Cl. 23—23.)



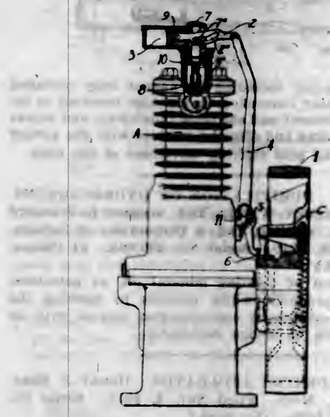
5. An apparatus comprising, in combination, a container, a body of catalytic material and electrical means for heating the same therein, said heating means comprising a corrugated resistance plate adjacent said catalytic material and a contacting opposed plate, and the said apparatus being provided with an inlet and outlet for fluid.

1,396,390. SEPARATOR FOR STORAGE BATTERIES. CHARLES F. WILLIAMS and IRA C. WILLIAMS, De Long, Ind., assignors to National Carbon Company, Inc., a Corporation of New York. Original application filed Feb. 21, 1917, Serial No. 154,144. Divided and this application filed Mar. 15, 1918. Serial No. 222,568. 4 Claims. (Cl. 204—29.)



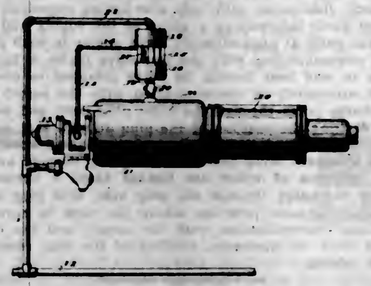
1. In electric batteries in combination with the positive and negative plates, an acid-resisting separating member secured to one of the plates and projecting laterally from both sides thereof in contact with the adjacent plates to hold them in spaced relation to the former and porous separators between the said plates having openings to receive said members.

1,396,391. POWER-OPERATED COMPRESSOR. FRANK ACKERMAN and CHARLES W. FREES, St. Louis, Mo., assignor to Curtis & Co. Mfg. Co., Wellston, Mo., a Corporation of Missouri. Filed June 21, 1920. Serial No. 390,490. 7 Claims. (Cl. 230—24.)



1. A power-operated compressor or pump provided with an unloading device or easy starting device comprising a mechanically operated mechanism which prevents one of the cylinder valves of the compressor from functioning properly during the starting of the apparatus, a variable speed device combined with the driving element of the apparatus and a means coöperating with said device for causing said mechanism to start to operate to restore the cylinder valve of the compressor to its normal operative condition when the apparatus is started, and means for retarding the action of said mechanism so as to insure the compressor remaining inactive for a certain period of time after the apparatus has been set in operation, irrespective of the speed of the driving element.

1,396,392. GRADUATED-RELEASE DEVICE FOR AIR-BRAKES. GEORGE ALUS ANDERSON, Santa Rita, N. Mex., assignor of one-eighth to Robert T. Taper, one-eighth to Victor H. Waggoner, and one-eighth to Walter M. Mercer, Santa Rita, N. Mex. Filed Mar. 16, 1920. Serial No. 366,405. 7 Claims. (Cl. 303—77.)

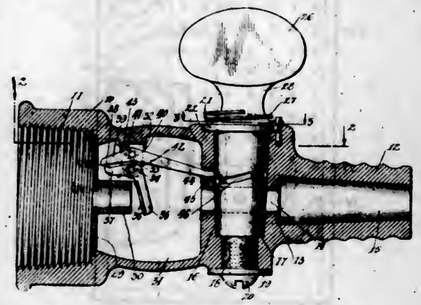


1. In a fluid pressure brake, the combination with a train pipe, triple valve, auxiliary reservoir and brake cylinder, of a casing having a pair of pressure chambers, one of which is connected to and subject to varying pressure of, the train pipe, and the other of which has a valved connection with the auxiliary reservoir, a member movable under control of the relatively varying pressures in said chambers, a pipe extending from the exhaust port of the triple valve, a controlling valve for said pipe, a spring controlling said valve, and connections between said movable member and said spring to automatically vary the effective pressure of the spring.

1,396,393. REPRODUCING DESIGN. JAMES W. ASTON, Chicago, Ill. Filed June 20, 1921. Serial No. 479,146. 2 Claims. (Cl. 41—7.)

1. The process of stamping designs and the like which comprises applying to the back of stamping leaf a thin coating of a solution of adhesive containing not more than 1% of adhesive material, drying it, applying the leaf to the face of a card and impressing the type or design thereupon.

1,396,394. AUTOMATIC VALVE. MICHAEL J. BARRETT, Brooklyn, N. Y. Filed May 12, 1920. Serial No. 380,829. 2 Claims. (Cl. 67—115.)



1. An automatic release for fluid valves having a valve body and a valve therein adapted to be moved into an open or closed position, said valve having a cam slot in its surface, a pivoted lever having one end engaging the slot in the valve, a spring adapted to hold said lever in its engaged position, a pivoted pressure vane, a spring coöperating with the pressure vane and tending to close it against the pressure of the fluid, one end of the pivoted vane adapted to coöperate with one end of the pivoted valve-engaging lever when the pressure falls below a predetermined amount, whereby said lever is withdrawn from the slot in the valve, and a spring on the valve adapted to close it when it is thus released.

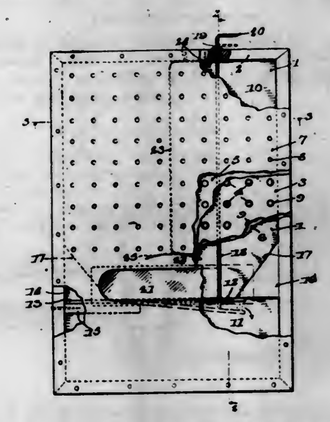
1,396,395. ATTACHMENT FOR PENCILS. ARTHUR A. BECK, Bemidji, Minn. Filed Jan. 4, 1921. Serial No. 434,921. 3 Claims. (Cl. 120—84.)



3. In a device of the character described, a sleeve adapted to be secured at one extremity to a pencil, a plu-

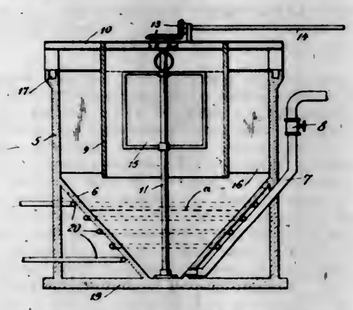
rality of resilient lugs projecting from its opposite extremity, a resilient split ring slidably associated with said lugs, hooks formed at the terminals of said split ring, a slidable clip carried by said sleeve having a slot therein, the edges of which are adapted to co-act with the hooks, said slot being of gradually increasing width toward one end whereby upon movements thereof in opposite directions, the relative contraction and expansion of the ring and the lugs will be effected for gripping an eraser received by said sleeve.

1,396,396. GAME APPARATUS. HENRY A. BERNBAUM, Milwaukee, Wis. Filed June 7, 1920. Serial No. 387,027. 6 Claims. (Cl. 46—56.)



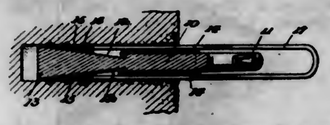
1. A punch board comprising a boxlike structure, having front and rear members, the front member being composed of an indicator carrying a perforated member, a puncturable sheet superimposed upon said perforated member, and a second perforated member superimposed upon said puncturable sheet and having its perforations alined with and of a smaller size than the perforations in said first mentioned perforated member.

1,396,397. SEWAGE TREATMENT. WARREN R. BOOST, West Brighton, Staten Island, N. Y. Filed July 28, 1920. Serial No. 399,464. 22 Claims. (Cl. 210—8.)



1. The method of treating sewage which comprises subjecting a body of sewage to biological action with the aid of aerobic bacteria in the presence of free oxygen, and maintaining the presence of free oxygen throughout the entire body of said sewage by diffusion downwardly through the sewage of air introduced by agitation at or near the top surface of said body of sewage.

1,396,398. WALL-ANCHOR. NEWTON K. BOWMAN, North Lawrence, Ohio. Filed Dec. 3, 1919. Serial No. 342,103. 5 Claims. (Cl. 85—2.4.)



5. A wall anchor including an anchor body provided with an expanding element, gripping dogs mounted to co-act with said element and shiftable therealong, and means connecting the dogs and disposed to coact with the anchor body for limiting said shifting movement of the dogs.

1,396,399. PURIFICATION OF HYDROCARBONS. OSCAR E. BRANSKY, Whiting, Ind., assignor to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed Nov. 26, 1919. Serial No. 340,883. 11 Claims. (Cl. 196—29.)

7. The method of treating mineral oil, as petroleum or petroleum products, which consists in washing the same without substantial emulsification thereof with an aqueous solution of sludge sulfonates.

1,396,400. FLUSHING APPARATUS. HENRY J. BRESSON, Detroit, Mich. Filed Nov. 4, 1918. Serial No. 261,151. 1 Claim. (Cl. 4—5.)

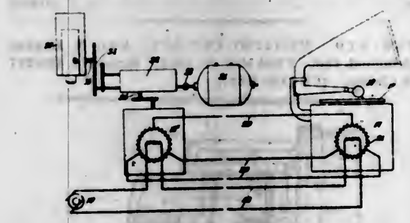


In flushing apparatus, a valve body having a port connected to a permanent supply and a port connected to a discharge, said ports extending in opposite directions from the plug cavity of the body, a pair of tanks of permanent dimensions, said body also having oppositely disposed ports intersecting a plane of the supply and discharge ports at approximately right angles to such plane and communicating with the respective tanks, a turning plug in said body having its ports arranged to place a tank alternately in communication with the supply and discharge ports through the same plug port, and means for shifting the position of the plug at will, said means including an operating handle and a weighted structure, said structure being positioned to swing through an arc the extremes of which are located above a horizontal plane extending through the plug axis, said plug being movable between positions where one tank is normally in open communication with the supply and the other tank with the discharge, shifting of the plug reversing this relation.

1,396,401. SYNCHRONIZED ENTERTAINMENT APPARATUS. WILLIAM H. BRISTOL, Waterbury, Conn., assignor to The Bristol Company, Waterbury, Conn., a Corporation of Connecticut. Filed July 25, 1919. Serial No. 313,263. 6 Claims. (Cl. 88—16.2.)

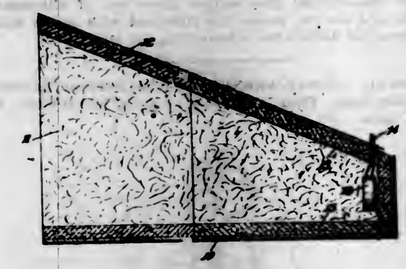
1. Synchronized entertainment apparatus embodying rotatable entertainment mechanism, means to rotate same

and governing means to maintain a constant rotational velocity thereof, additional entertainment mechanism, and independent driving means, connections between said addi-



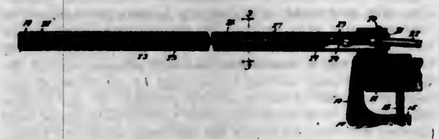
tional entertainment mechanism and independent driving means, said connections including a speed gear, and speed regulating mechanism operatively associated with said speed gear and controlled by said governing means.

1,396,402. SOUND-SELECTING APPARATUS. WILLIAM H. BRISTOL, Waterbury, Conn. Filed June 22, 1920. Serial No. 390,916. 8 Claims. (Cl. 181—27.)



1. Apparatus for use in phonographic recording, comprising a flaring receptacle open at the front and closed at the inner end, said receptacle being lined substantially throughout with material which will not reflect sound, and a telephone transmitter located at the inner end of said receptacle and acoustically independent thereof.

1,396,403. METHOD OF RENEWING CARBON AND SIMILAR PAPERS. HARRY H. BUCKLEY, Chicago, Ill., assignor to Associated Engineers Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 15, 1919. Serial No. 324,018. 11 Claims. (Cl. 91—70.)



7. The method of renewing impression paper which consists in progressively applying heat to the surface of used sheets of said paper.

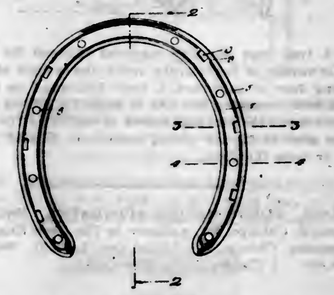
10. The method of renewing impression paper which consists in drawing a used sheet of said paper over a surface heated to melt the binding material of said paper and cause the unused pigment to flow over the used portion of said paper, thereby to redistribute the coating carried by said paper over the same.

1,396,404. AIR-GUN. FRANK F. BURTON, Mount Carmel, and THOMAS D. JONCK, New Haven, Conn., assignors to Winchester Repeating Arms Company, New Haven, Conn., a Corporation. Filed Feb. 17, 1921. Serial No. 445,691. 80 Claims. (Cl. 124—11.)



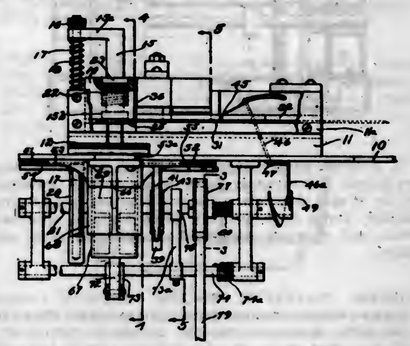
1. In a gun, a receiver, a loading lever and a cocking lever pivoted to the said receiver, and an action handle pivoted to the said levers for the operation thereof.

1,396,405. HORSESHOE. WILLIAM J. CAHILL, New Dorp, N. Y. Filed June 2, 1920. Serial No. 386,000. 1 Claim. (Cl. 168—11.)



A horseshoe including a channel member, a strip of material seating within and extending beyond the channel of said member, said strip and member being formed with openings adapted to aline, and extended portions upon said strip, said extended portions being formed adjacent the openings through said strip and member, and contacting with the inner face of the outer wall of said member.

1,396,406. TAGGING-MACHINE. VICTOR F. CARL, Brookline, Mass. Filed Nov. 13, 1919. Serial No. 337,815. 6 Claims. (Cl. 1—8.)



1. A tag affixing machine, comprising means for pressing a tag upon a material piece with the pin prongs projecting through the material, means for preliminarily crossing the pin prongs, and means for pressing the crossed pin prongs closely against the under surface of the material.

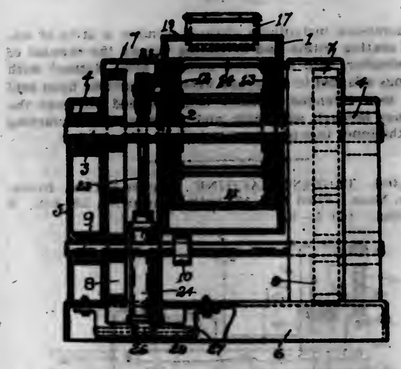
3. A tag affixing machine, comprising means for progressively bending the pin prongs of a tag to cross the same, a hollow plunger having a cross pin to engage the crossed pins and having also a presser head relatively movable with respect thereto for flattening the pin prongs and pressing them closely against the material.

1,396,407. TRAP-NEST. David H. Cowgill, West Newton, Pa. Filed Mar. 22, 1921. Serial No. 454,422. 2 Claims. (Cl. 119—47.)



1. A trap nest rockably mounted between its ends to tilt forwardly or backwardly under the weight of a hen, a swing door on said nest, a lever fulcrumed on the nest and slidably engaging the door to impart a closing or opening movement thereto, and means operative by the rocking of the nest to impart sliding movement to said lever to close or open the door.

1,396,408. DOUGH-MIXING APPARATUS. William A. Darrah, Chicago, Ill., assignor to The Ehco Engineering Company, Chicago, Ill. Filed Oct. 4, 1920. Serial No. 414,464. 8 Claims. (Cl. 259—109.)

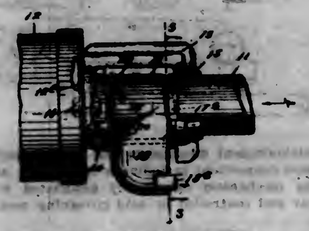


1. A dough mixer comprising a drum, a rotating member therein, cast terminal plates to said drum, a projection on one of said terminals, a frame supporting said rotating member, and a fluid operated piston mounted upon said frame and engaging with said extension to move said drum.

1,396,409. TRANSFER PROCESS. Antonius Laurentius de Rooij, Watergraafsmeer, Netherlands. Filed Jan. 30, 1920. Serial No. 355,215. 5 Claims. (Cl. 41—33.)

5. A method of transferring pictures and photographic prints printed in black or in colors from their original supporting backing to a support of different material, comprising the steps of coating the picture with collodion; drying the coated picture; soaking it in a water bath to loosen the backing from the collodion layer; placing it while wet face downward on a glazed surface; rolling it with a roller to remove superfluous water and air bubbles; removing the backing, leaving the collodion layer with the picture thereon adhering to the glazed surface; and finally transferring said layer from said surface to the new support.

1,396,410. EXHAUST CUT-OUT. Emil R. Draver, Richmond, Ind. Filed May 13, 1921. Serial No. 469,217. 10 Claims. (Cl. 116—138.)



7. An exhaust pipe attachment having axially spaced sleeves, and a supplemental pipe section mounted on a pivot whose axis is parallel to the axis of said sleeves, said pipe section being movable laterally into and out of alinement with said sleeves and having a deflector, which, when said supplemental pipe section moves out of alinement with said sleeves, moves into alinement with one of said sleeves and deflects the exhaust into the atmosphere.

1,396,411. STRAP-WRENCH. Walter Dufford, Bartlesville, Okla. Filed Jan. 26, 1921. Serial No. 440,032. 6 Claims. (Cl. 81—64.)



1. A strap wrench including a head having a socket at the rear end thereof, a hollow handle detachably engageable with said socket and forming a container adapted to contain rosin, the strap of the wrench extending transversely through said head directly at the adjacent end of the handle, and a closure plug for said adjacent end of the handle, said plug having an opening at the forward end thereof adapted to be closed by pressure of the closure plug against said strap when the handle is in place, said opening affording an outlet for the rosin when the handle is detached from the head.

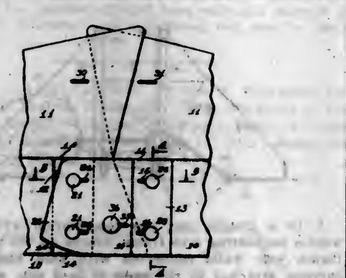
1,396,412. PROCESS OF MAKING STYLI AND PRODUCTS THEREOF. Byron E. Eldred, New York, N. Y., assignor to The Commercial Research Company, a Corporation of New York. Filed Dec. 23, 1914. Serial No. 878,804. 16 Claims. (Cl. 274—38.)

1. The process of making talking machine styli which comprises enveloping a hard metal core of low heat conductivity and low expansion with a metal of higher heat conductivity, drawing the compound article so produced down to stylus diameter, cutting the same into stylus lengths, and exposing the core at one end of each such length.



16. A phonograph needle comprising a metal sheath filled with a wire, the two having a drawn union with each other, said needle having a record engaging point at its end.

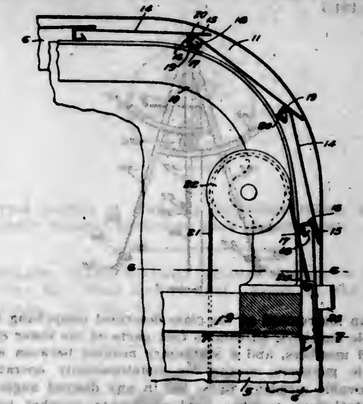
1,396,413. SOFT COLLAR. Joseph William Fischer, Brooklyn, N. Y. Filed Feb. 28, 1921. Serial No. 447,133. 3 Claims. (Cl. 2—69.)



1. In a soft turndown collar, a buttonhole member attached to the front face of one end of the neckband portion under the turndown portion of the collar, the said buttonhole member forming a pocket with the neckband portion, the pocket being open at one side, the said buttonhole member having vertically spaced buttonholes, a stiffening member fitting removably into the said pocket and having integral spaced buttons engaging the said spaced buttonholes, the other end of the neckband portion having vertically spaced buttonholes adapted to gage the said buttons.

1,396,414. FLEXIBLE DOOR. Alexander E. Foglquist, Minneapolis, Minn., assignor to Northwestern Bakers Supply Co., Minneapolis, Minn., a Corporation. Filed Jan. 21, 1918. Serial No. 212,956. 2 Claims. (Cl. 45—93.)

1. The combination, with a casing having curved guideways, of a vertically sliding door therefor composed of a series of longitudinal sections, each section having one longitudinal edge inwardly and upwardly turned upon itself against the wall of the section and then outwardly and downwardly turned to form a flange and terminating in an upwardly projecting lip, the other longitudinal edge of said section being inwardly and downwardly turned and having an end portion to fit between said flange and said upwardly projecting lip on the edge of the adjacent section, said end rocking in the angle between said flange and lip and allowing the ends of said sections to accommodate themselves to the curve of said guideways.



1,396,415. IDENTIFICATION OF PLATES AND FILMS. Julius Fried, New York, N. Y. Filed May 1, 1920. Serial No. 378,155. 6 Claims. (Cl. 250—84.)

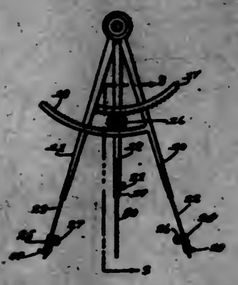
3. A packet for plates or films used in X-ray work comprising an inclosure of a material impenetrable by light and penetrable by X-rays, and an adherent coating substantially impenetrable by X-rays upon a portion of that face of the inclosure to be exposed to the X-rays and removable in portions to represent any desired identification symbols.

1,396,416. DRAIN-PAN. William Ira Garrett, Union City, Tenn., assignor to Garrett Drain Pan Company, Union City, Tenn., a Corporation of Tennessee. Filed Nov. 23, 1920. Serial No. 426,037. 3 Claims. (Cl. 53—8.)



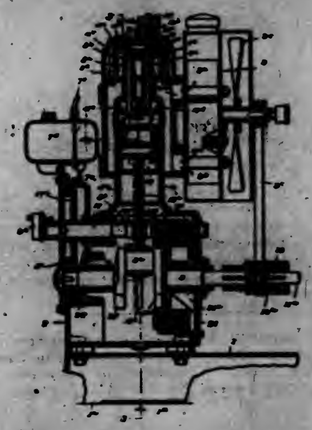
3. A device of the type described comprising a central or body portion having its side walls bent to form a ledge, and pieces comprising the end walls, each edge of said end wall having two projecting portions secured to the body portion of the receptacle, and parts of the side and end portions above and below the ledge soldered or otherwise suitably secured to the side walls, in combination with a drain member which rests upon the side walls and extends to the end walls.

1,396,417. COMPASSES. Paul Gerock, Warren, Ohio, assignor of one-half to Josef Sawe, Warren, Ohio. Filed Mar. 24, 1921. Serial No. 455,113. 8 Claims. (Cl. 33—191.)



1. An instrument of the class described comprising two movable members, adjustable foot parts at the lower ends of said members, and a stationary member between said movable members, means for simultaneously operating the movable members to be set in any desired angle to said stationary member, said stationary member being provided with a socket, and a needle in said socket adapted to be vertically adjusted and locked in its adjusted position.

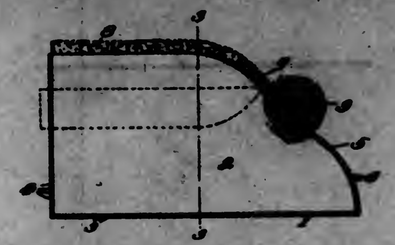
1,396,418. INTERNAL-COMBUSTION ENGINE. Bennet T. Gilliard, Hanover, Pa. Filed Jan. 24, 1919. Serial No. 272,871. 17 Claims. (Cl. 123—73.)



1. In an internal combustion engine having a closed crank case, a cylinder communicating with said case having inlet and outlet ports opposite the case, an air chamber to inclose the valve operating levers, and an air passage directly communicating with and connecting the interior of the crank case and said air chamber.

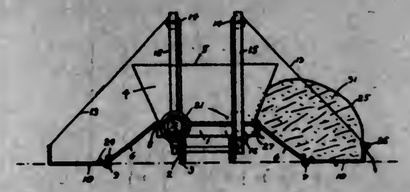
1,396,419. SLIPPER. Primus B. Giroux, Johnstown, N. Y. Filed Jan. 3, 1920. Serial No. 348,946. 1 Claim. (Cl. 36—9.)

A boudoir slipper, including a sole and an upper formed from a plurality of parts of animal skin with the fur on the inside thereof, the edges of the parts forming the front portion of the slipper being cut in double convex form and secured together at a portion of their length, by an exterior row of stitching, to provide an arc-shaped toe portion of such length that the successively descending portion of the arc will engage the foot of a wearer just in the rear of the toes, and hold the slipper in place, the sides of the front portion of the upper being separated at the rear end of the arc-shaped toe portion and the separated convex edges thereof continued until they



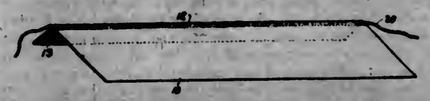
merge into the horizontal edges of the main upper, the said horizontal edge and curved edges being turned outwardly and downwardly to form a fur ornamentation, and a reinforcing button secured at a point on the forward portion of the upper, where the curved edges of the upper meet.

1,396,420. FREIGHT-CAR. Alexander I. Glinchikoff, Honolulu, Hawaii. Filed Feb. 14, 1921. Serial No. 444,651. 7 Claims. (Cl. 105—378.)



1. In a freight car, the combination with a frame, wheels supporting said frame, hinges on the sides of said frame, side walls connected with said hinges, flexible carriers attached to the ends of said side walls, means to support said flexible carriers, means to move said flexible carriers, and means to detachably fasten the load to said side walls.

1,396,421. ADJUSTABLE HAT-LINING. Frederic Gsunig, Brooklyn, and Maxime L. Van Humbl, New York, N. Y. Filed Aug. 4, 1919. Serial No. 315,295. 1 Claim. (Cl. 2—113.)



As an article of manufacture, a hat lining comprising a crown having a gathered top and a side portion formed of a flexible material cut at a bias, the sides of the said side portion being in overlapping relation, the lower edge of the said side portion being doubled up outwardly to form an attaching edge for fastening the lining into the hat, the lower portion of the said side portion being provided with an integral hem a distance from the said attaching edge and intermediate the latter and the top, and a draw string in the said hem, one end of the said draw string projecting beyond the corresponding end of the hem, the latter having an opening a distance from its other end for the passage of the other end of the draw string to allow of fastening the ends of the draw string together with the hem ends in overlapping relation.

1,396,422. BUNDLE-TAPE-APPLYING DEVICE. Thomas M. Harrigan, Woodstock, Vt. Filed May 12, 1921. Serial No. 469,144. 7 Claims. (Cl. 216—29.)



3. An adhesive tape applying device having, in combination, a carrier frame, adapted to have a roll of adhesive tape rotatably mounted thereon, said carrier frame having a plurality of arms, a hollow handle fast to one of said arms and adapted to contain liquid, a tube provided with holes in its periphery and extending into the interior thereof, a moistening roll mounted on said tube and means to connect the interior of said tube with the interior of said handle, whereby said moistening roll may be moistened.

1,396,423. MAN'S GARTER. Myron B. Hammond and Henry H. Taylor, Bridgeport, Conn., assignors to The Thos. P. Taylor Company, Bridgeport, Conn., a Corporation of Connecticut. Filed May 11, 1921. Serial No. 468,678. 2 Claims. (Cl. 241—6.)

1. In a hose supporter, an elastic limb encircling member having a non-elastic clasp-bearing member on one end and having a non-elastic tongue secured to its opposite end, and a separable clasp having a female member rigidly secured to the outer face of the clasp-bearing member and having a male member adjustably secured to the tongue and adapted to register with and engage the female member whereby both are carried by the outer face of the clasp-bearing member.

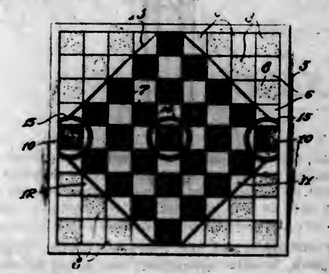
1,396,424. RAZOR-STROPPER ROLL. Walter M. Hanson, Milwaukee, Wis. Filed July 26, 1920. Serial No. 398,944. 7 Claims. (Cl. 51—194.)

3. A razor stropping roll comprising a split axle, an S-shaped spring member carried within the split in said axle and having oppositely extending arms presenting a



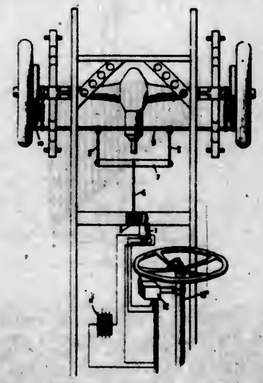
curved surface of gradually increasing radius, and an abrasive member carried by each of said arms.

1,396,425. GAME-BOARD. Thomas R. Harlow, Benton City, Mo. Filed Feb. 14, 1921. Serial No. 444,723. 1 Claim. (Cl. 46—64.)



A game-board comprising a square field laid off into alternate different colored checks and formed by diagonally extending boundary lines into a major field square in contour, and a series of triangular shaped dead fields, one of the latter being situated adjacent each side of the major field; an area located at two of the opposite corners of the major field and designated as King's arches, and a space central of the major field and intermediate the King's arches termed the King's palace.

1,396,426. ELECTRICALLY-OPERATED BRAKE. Edward Vassallo Hartford, Deal, N. J. Filed Aug. 27, 1914, Serial No. 858,959. Renewed Oct. 19, 1918. Serial No. 258,900. 18 Claims. (Cl. 188—162.)



1. An electrically operated brake mechanism, comprising a motor, a winding drum operably connected with said

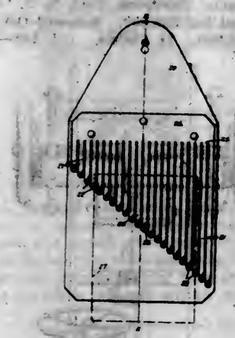
mation, a self-adjustable limiting means carried by said drum adapted to limit the extent of unwinding movement thereof, said means including a flange formed upon said drum, a peripheral slot formed upon said flange, a stop member having depending parts frictionally engaging said slot, and stop posts adapted to coöperate with said stop member.

1,396,427. BULL-HOLDING INSTRUMENT. OSIN E. HATCH, Davenport, Iowa. Filed Dec. 14, 1920. Serial No. 430,636. 2 Claims. (Cl. 128—316.)



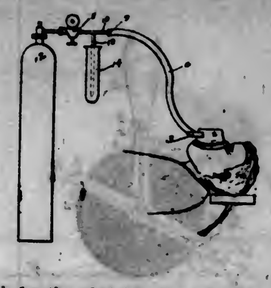
1. An instrument of the character stated, comprising pivoted jaws, handles operatively connected to the jaws, means limiting the pivotal movement of the handles whereby said jaws are spaced apart when in closed position, and said jaws having registering trocar guiding recesses at their free ends in their outer faces, said jaws curved in opposite directions and curved transversely in the same direction.

1,396,428. PAPER OR BILL FILE. HERMAN HELEMAN and SOLOMON BRAININ, New York, N. Y. Filed Sept. 12, 1919. Serial No. 323,202. 8 Claims. (Cl. 129—35.)



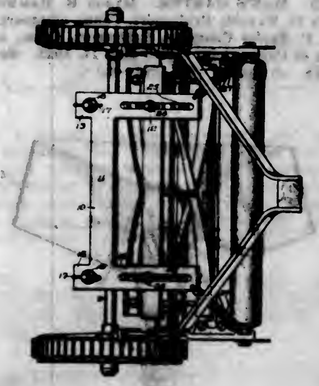
4. A file comprising a plurality of contiguous spring fingers, said fingers being of gradually varying length, means for securing one portion of all of the fingers together in parallelism and alinement, the free ends of said fingers being bent in varying curvatures away from the longitudinal plane of the fingers, and having their extremities spaced a uniform distance apart.

1,396,429. MASK FOR THE INHALATION OF CARBON DIOXID. YANDELL HENDERSON, New Haven, Conn. Filed Apr. 3, 1920. Serial No. 371,268. 4 Claims. (Cl. 128—200.)



1. A mask for the administration of carbon dioxid for the ventilation of the blood in the lungs, the said mask having a mixing-chamber opening into its interior and into the atmosphere and the said mixing-chamber containing a gas-distributer formed with openings positioned to waste the gas during expiration or cessation of breathing and to permit the gas to be drawn into the mask, mixed with outside air, during inspiration.

1,396,430. SHARPENING DEVICE FOR LAWN-MOWERS. WALTER G. HILL, Chicago, Ill. Filed Feb. 11, 1920. Serial No. 357,786. 18 Claims. (Cl. 76—82.)

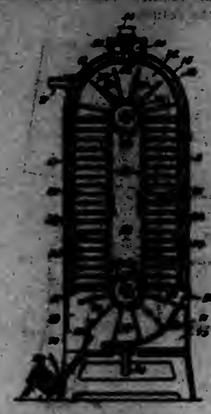


1. A sharpening device for the purpose stated, comprising a supporting member adapted to be attached to the body of a lawn mower to extend adjacent the rotary blade portion thereof, and a sharpening element adjustably supported on said supporting member and adapted to be engaged by the cutting edges of the blade portion of the lawn mower.

1,396,431. DRIER FOR CAN-COVERS. FROSCH C. HIRSCH, Bridgeport, Conn. Filed Oct. 12, 1920. Serial No. 416,540. 11 Claims. (Cl. 34—12.)

2. A drier of the character described comprising end sections and side sections detachably connected together to form circular runways, each section having a steam jacket, a demountable cap having a steam jacket and a steam inlet communicating therewith, a series of traveling carriers circulating through the runways, the drier

having an inlet and a discharge-outlet for the objects to be dried, and means whereby steam from the steam jacket



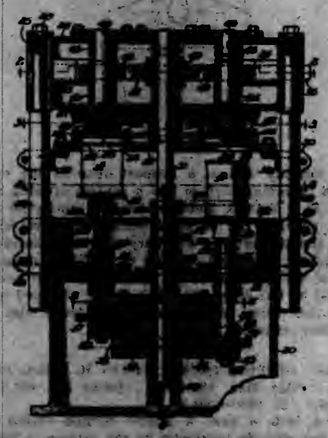
of the cap is circulated throughout all of the sections and exhausted therefrom.

1,396,432. NEST. ARMAND C. HITCHCOCK, Tuscott, Kans. Filed Mar. 23, 1921. Serial No. 454,932. 2 Claims. (Cl. 119—36.)



1. A nest comprising a receptacle mounted for tilting movement and provided in its opposite sides at its opposite ends with outwardly swinging doors.

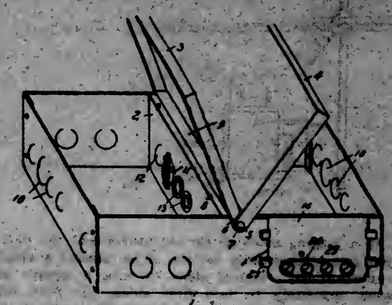
1,396,433. CAN-DOUBLE-SEAMING MACHINE. HARRISON H. HOOD, Battle Creek, Mich. Filed Feb. 19, 1918. Serial No. 218,064. 48 Claims. (Cl. 113—14.)



1. In a machine for locking can ends to bodies, the combination with seaming mechanisms, of oscillating means

pivoted on an axis between the locking mechanisms for separately delivering can bodies and can ends successively in ostensible alinement to said seaming mechanisms.

1,396,434. METAL BOX OR RECEPTACLE FOR ELECTRICAL SWITCHES. BYRON D. HOSTON, Detroit, Mich. Original application filed May 22, 1915, Serial No. 29,788. Divided and this application filed Feb. 15, 1919. Serial No. 277,192. 3 Claims. (Cl. 247—9.)



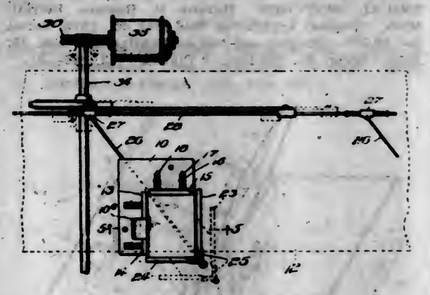
1. A metal box, hinged lids thereon, the hinges of which comprise extending ears connected together by pivotal means having bearings in the sides of the box, a stationary partition extending from side to side adjacent the hinged portions and having a portion lying in a plane substantially coincident with the plane of the covers when in closed position to present a substantially flat top surface to the box.

1,396,435. CONNECTING-ROD. ROBERT H. JACKSON, Phoenix, Ariz. Filed Mar. 6, 1920. Serial No. 363,648. 2 Claims. (Cl. 64—55.)



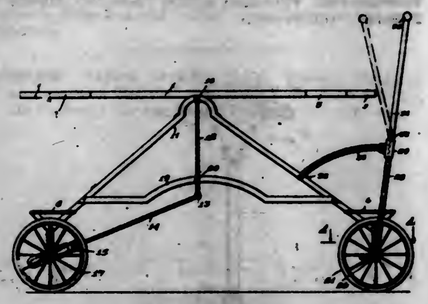
1. A self adjusting bearing comprising a casing having a slot in one face which extends the entire length of said casing to provide a shaft engaging seat, a take-up block engageable with the shaft and movable transversely of the casing, laterally extending lugs located at each end of the block and engageable with notches formed in the casing at each end of the slot to prevent longitudinal movement of the block and means for adjustably holding the block against transverse movement.

1,396,436. JOGGING-MACHINE. SAMUEL B. KATHLY and HARLEY C. ALGER, Chicago, Ill., assignors to R. R. Donnelley & Sons Company, a Corporation of Illinois. Filed Aug. 30, 1919. Serial No. 320,807. 9 Claims. (Cl. 271—89.)



1. In a jogging machine for signatures and the like, a bottom, two substantially vertical sides forming a square, two substantially vertical sides forming a square and disposed oppositely to said first sides, the four sides forming a rectangle, means for reciprocating one of said pairs diagonally with respect to the rectangle, and a bottom relieved at the back for causing the upper signature in the pile of like signatures to overlap slightly the others whereby it will receive the maximum pressure.

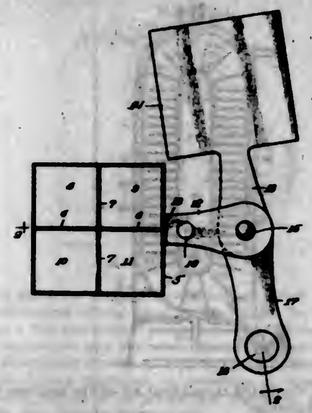
1,396,437. SEESAW AND TOY VEHICLE. THOMAS B. KNOSH and LEON F. CAUMONT, New York, N. Y. Filed Nov. 4, 1920. Serial No. 421,691. 3 Claims. (Cl. 208—37.)



1. A toy vehicle of the character described comprising a vehicle body, a plurality of wheels for supporting the body, steering mechanism connected with the front wheels, driving mechanism connected with the rear wheels, a link for actuating said driving mechanism, a swing bar for actuating said link, transverse rock shaft secured to said swing bar and a power walking beam normally connected with said rock shaft for rocking the same when the vehicle is in use, said walking beam being readily removable.

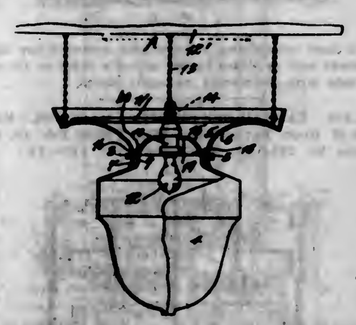
1,396,438. DEVICE FOR MAKING BUTTER PADS. RUDOLPH KNEBLER, Chicago, Ill. Filed Dec. 13, 1920. Serial No. 430,171. 2 Claims. (Cl. 31—65.)

1. A pad making device comprising a frame made of relatively thin strips of metal and having a handle extending from one side; a series of partitions within the frame made of similar metal, to provide a plurality of matrices; a plate underlying said frame, having a handle pivoted to the frame handle, whereby to move the plate toward and from the frame.



2. A pad making device comprising a rectangular frame made of relatively thin strips of material and having cross partitions forming a plurality of rectangular matrices or molds within the frame; a thin flat handle extending from the frame; a blade rectangular in form and substantially equal in size to the frame underlying the frame and having an integral handle extending therefrom pivoted to the handle of the frame.

1,396,439. LAMP. WILLIAM KNAPP, Bayonne, N. J. Filed June 30, 1920. Serial No. 392,980. 1 Claim. (Cl. 240—92.)

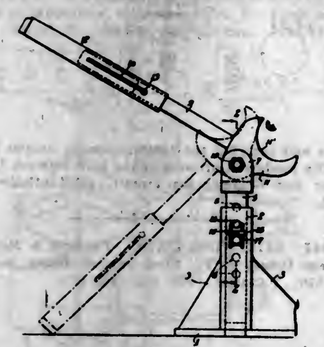


In a lighting fixture, a support open at the top and having a reflecting surface and a central opening for the passage of a bulb, a globe detachably supported by the support, the axis of the globe being coincident with the axis of the support, an auxiliary dished translucent reflector having a central opening of sufficient diameter to permit of the passage of an entire bulb, and reversibly supported by the globe, said globe being provided with an annular depression to receive the peripheral edge of the translucent reflector.

1,396,440. LIFTING-JACK. HARLEY M. KNOX, Penokee, Kans. Filed Mar. 12, 1921. Serial No. 451,775. 2 Claims. (Cl. 254—129.)

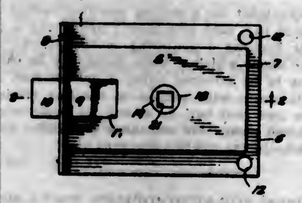
1. In a jack, a base, a hollow column mixed to the base, a bar slidable vertically in the column, a lever fulcrumed adjacent one end in the upper end of the bar, said

column having alined perforations in opposite sides thereof, said bar having a series of perforations adapted to register with the perforations in the column, a pin movable through the alined perforations, a bracket fixed to



the outer face of the column, an arcuate cam pivoted to the outer end of the pin and movable between the bracket and the column and guided in its movement by the bracket.

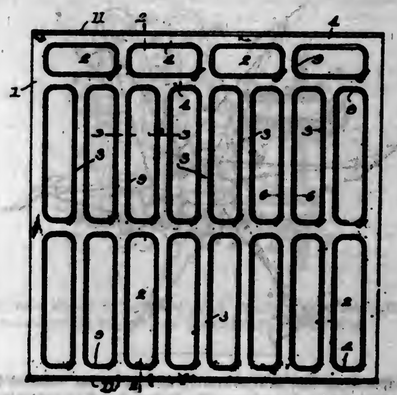
1,396,441. LATCH DEVICE. JOHN A. KULIEB, Brooklyn, N. Y. Filed July 3, 1920. Serial No. 393,854. 4 Claims. Cl. 292—169.)



1. A latch device of the class described comprising a casing composed of two sheet metal parts fashioned into the desired form, means for securing said parts together to form said casing, a latch bolt movable inwardly and outwardly through one end of said casing, a sheet metal guide plate rigidly secured to and forming a part of said latch bolt and mounted within said casing, said guide plate fitting snugly in and being guided by the casing and provided at the sides thereof with projecting members fashioned therefrom, a roll back rotatably mounted in the casing and in operative connection with the projecting members on said guide plate whereby said latch bolt may be moved inwardly by the rotation of said roll back, and tensional means mounted within the casing and cooperating with the projecting members on said guide plate for normally holding the latch bolt in an extended position.

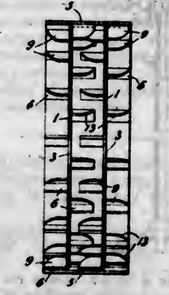
1,396,442. RAILING, GATE, GRILLE, &c. MAURICE LACHMAN, New York, N. Y., assignor to Universal Electric Welding Company, New York, N. Y., a Corporation of New York. Filed Mar. 10, 1917. Serial No. 153,807. 3 Claims. (Cl. 189—82.)

1. A metallic structure of the character described comprising complementary metal plates having portions removed to form uprights and connecting rails and spacing members inserted between said plates and forming side



walls around the openings formed by the removed portions, said spacing members and complementary plates being locked together.

1,396,443. METAL WHEEL. MAURICE LACHMAN, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Mar. 14, 1919. Serial No. 282,591. 7 Claims. (Cl. 301—64.)

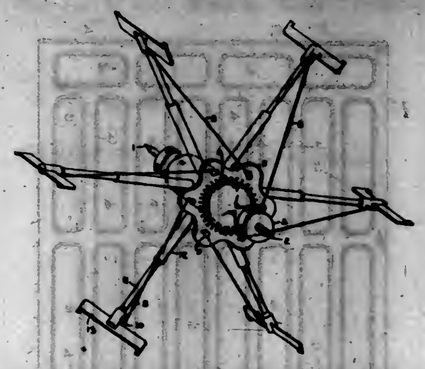


1. In a wheel of the character described, a sheet metal plate constituting the spoke part of the wheel and slit radially at its circumferential edge to provide supporting brackets bent to extend alternately in opposite directions transversely to the plane of the wheel integral therewith and engaging the inner surface of the rim, said brackets having also a bearing against the face of the plate.

1,396,444. WINDING DEVICE. HARRY P. LAM, Stonington, Conn. Filed Dec. 27, 1919. Serial No. 347,761. 4 Claims. (Cl. 242—118.)

1. In a device of the class described, a hub bearing and slidable arms thereupon and means in combination therewith for radially adjusting said arms, said means comprising a rotatable member upon said bearing and connection therebetween and said slidable arms, said rotatable member upon said bearing having slots circularly arranged

and an engaging member upon said bearing adapted to engage one of said slots, and said connection between said



slidable arms and said rotatable member being adapted to normally maintain engagement between one of said slots and said pin.

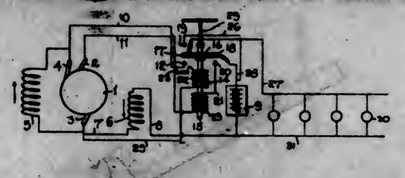
1,396,445. PLANT-STAND. Dora F. Lesson, New York, N. Y. Filed May 21, 1921. Serial No. 472,909. 1 Claim. (Cl. 248—61.)



A stand including a spider, means for supporting said spider, arms, sleeves forming portions of said arms, said sleeves being adapted to encircle said spider arms, said spider arms being formed with recesses in their under faces, a set screw secured to the under side of said sleeve, the end of said set screw being adapted to project into the recesses of said latter arms, said spider arms presenting channel portions, walls forming end portions for said channels, the upper edge of each of said walls being formed with a recess whereby said sleeves may be reversed and said set screw may be caused to engage the said latter recess.

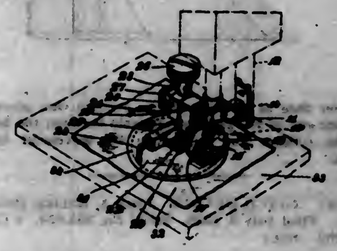
1,396,446. SYSTEM OF ELECTRICAL DISTRIBUTION. Lamar Lyndon, Orange, N. J. Filed Dec. 8, 1917. Serial No. 205,123. 9 Claims. (Cl. 171—313.)

1. A system of electrical distribution comprising a generator, an accumulator, a consumption circuit, means to supply the consumption circuit from the accumulator, or from the generator when charging the accumulator, means to effect a voltage for the accumulator and consumption circuits corresponding with their operating requirements, and additional means in conjunction with the generator, permanently included in the accumulator and consumption



circuits and carrying the total generator output to automatically produce a division of the load between the accumulator and consumption circuit, substantially as described.

1,396,447. STITCHING-GUIDE. Francis A. McDonald, College Point, N. Y. Filed Jan. 8, 1921. Serial No. 435,870. 7 Claims. (Cl. 112—151.)



6. An attachment for a sewing machine having a work table and feed bar, said attachment comprising a pointed work holder forming a centering means at one side of the feed bar about which a work piece may be caused to rotate so as to be stitched along a curved line, a gage positioned laterally with respect to the line joining said work holder and feed bar, as means for positioning said work piece, and means for attaching the holder and gage to the machine in the relation specified.

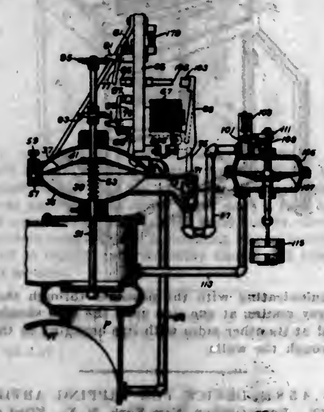
1,396,448. DOOR FOR AUTOMOBILES. John J. McGuire, Yonkers, N. Y. Filed Jan. 21, 1920. Serial No. 352,966. 8 Claims. (Cl. 296—48.)



8. A hollow vehicle door, embodying a fixed front and a spaced and hinged back, a window sash slidably mounted

on the back and adapted to be housed within the door between the front and the back thereof, and means for securing the back and window sash in open position.

1,396,449. PNEUMATIC-DESPATCH APPARATUS. James G. Maclaren, Mamaroneck, N. Y. Filed Jan. 26, 1918. Serial No. 213,536. 18 Claims. (Cl. 243—7.)



10. In a system of the class described wherein a valve controls communication between a transit tube and a pressure conduit, a pressure sensitive device for moving the valve, operating means to control the pressure on said device to operate the same and thereby to move the valve, and a mechanism governed by the pressure in the system and operating under the characteristic pressure conditions due to the presence of a carrier in the transit tube to maintain these pressure conditions in said pressure-sensitive device which are effective to move the valve.

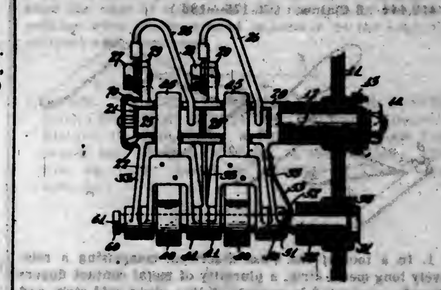
1,396,450. REEL. Sherman Jefferson Martin, Woodlawn, Pa. Filed Aug. 30, 1920. Serial No. 406,881. 4 Claims. (Cl. 242—77.)



4. A core for a reel of the character described, comprising a plurality of members constructed of resilient wire, each consisting of a longitudinally extending section, a radial section formed at each end of the longitudinal section, each of said radial sections having its outer end provided with an offset bend, the bight of which constitutes a recess, an arcuately curved section integral with the offset ends of the radial section, each of said arcuately curved sections being provided with a bent back portion constituting a hook whereby when said hooks and recesses are interengaged, the core members are interlocked and the arcuately curved portions constitute a journal.

1,396,451. BRUSH-HOLDER. Lawrence A. Muser, Los Angeles, Calif. Filed Apr. 11, 1921. Serial No. 460,903. 9 Claims. (Cl. 171—234.)

1. In a brushholder for dynamo electric machines the combination of a box; a sleeve free to be slid into said box along a line substantially parallel to the axis of the commutator served by the brushholder; means for retain-



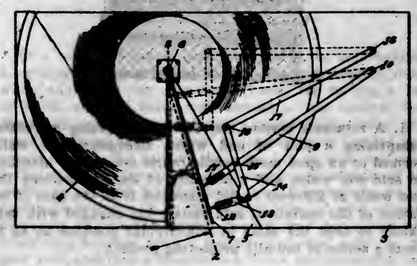
ing said sleeve in said box; and elastic means for sliding a brush placed in said box toward said commutator.

1,396,452. HOSE-MOUNTING PROTECTOR. Frank O. Monnahan, Brooklyn, N. Y., assignor of one-half to Charles Christman, Queens, N. Y. Filed Nov. 11, 1919. Serial No. 337,240. 5 Claims. (Cl. 137—90.)



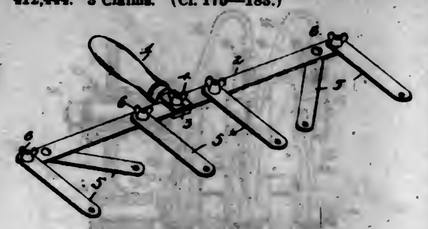
6. In a hose mounting composed of two members having resilient mounting protectors, an annular recess providing a seat for one protector on one of the members, another annular recess formed partly in one and partly in the other member and providing a seat for the other protector, both protectors being of larger diameter than the largest diameter of the mounting body.

1,396,453. DEMONSTRATING DEVICE. Edward P. Moffitt, Minneapolis, Minn. Filed Sept. 7, 1920. Serial No. 408,756. 4 Claims. (Cl. 35—16.)



8. A device of the class described consisting of a suitable body having a wedge shaped opening therein, a mutilated record or simulation thereof on the upper side of said body, the same having its center corresponding with the apex of said opening, two suitably mounted needles adapted to swing simultaneously in varied paths over said opening, a radial member adapted to swing within said opening under said needles.

1,396,454. ENGINE-TESTER. ISIDORE MONTELIUS, Hollister, Calif., assignor of one-half to William B. Thompson, Hollister, Calif. Filed Sept. 24, 1920. Serial No. 412,444. 3 Claims. (Cl. 175—183.)



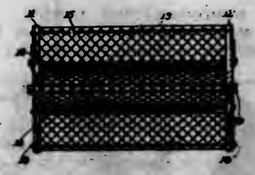
1. In a tool of the class described, comprising a relatively long metal strip, a plurality of metal contact fingers hingedly connected in spaced relation along said strip and a manipulating handle mounted intermediate the ends of the strip and projecting rearwardly of said fingers.

1,396,455. CAPSTAN-SCREW. GEORGE A. MOORE, Medford, Mass. Filed Oct. 29, 1919. Serial No. 334,233. 1 Claim. (Cl. 85—9.)



A capstan screw comprising a threaded portion, a head, and a neck between the head and threaded portion, the neck having three equal flat faces composing an equilateral triangle in cross section, each face having a hole formed therein at right angles thereto, these holes meeting at a common center.

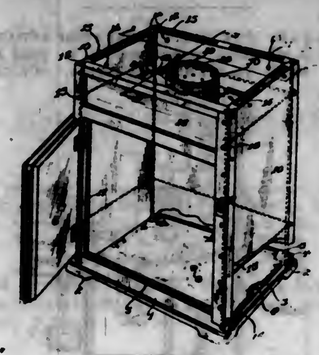
1,396,456. WASHING-MACHINE. AUGUSTO E. MUELLER, Chicago, Ill. Filed Sept. 27, 1920. Serial No. 413,083. 6 Claims. (Cl. 68—18.)



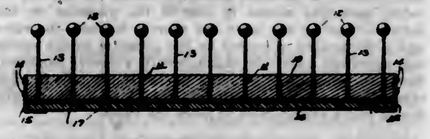
1. A rotatable clothes container for washing machines, comprising a pair of end walls, circumferential walls formed of an open mesh textile fabric detachably attached to said end walls, and a plurality of slats connecting the end walls at different radial distances from the axis of rotation of the container, said slats being engaged with said fabric to hold the same in non-circular position so as to form a series of radially projecting pockets.

1,396,457. REFRIGERATOR. ALEXANDER NOWAK, Douglas, Ariz., assignor of one-half to J. G. Pimpell, Douglas, Ariz. Filed July 28, 1920. Serial No. 399,571. 2 Claims. (Cl. 62—90.)

1. An apparatus for the purpose set forth comprising a bottom having an outlet therethrough, walls erected on said bottom and provided with open-ended passages extending vertically therethrough, one of said walls having a shoulder upon its inner side near its upper end and the remaining walls having openings in the plane of said shoulder communicating with the passages through the walls, and a tray resting at one side upon the said shoulder and provided at its other sides with lips engaging in the openings through the walls.

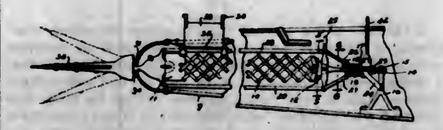


1,396,458. DEVICE FOR DIPPING ARTIFICIAL FRUIT. FRED OSMER, New York, N. Y. Filed Oct. 20, 1919, Serial No. 334,616. Renewed Sept. 15, 1921. Serial No. 501,010. 2 Claims. (Cl. 91—60.)



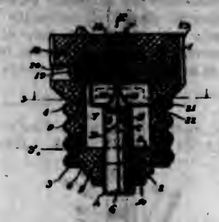
1. A device for dipping artificial fruit comprising a block member having a plurality of perforations adapted to receive the stems of the fruit, guides secured to said block member and a retaining member adapted to slide in said guides, over said perforations to bend the stems so as to hold the fruit between said block and said retaining member.

1,396,459. AEROPLANE. GEORGE ORTOIER, East St. Louis, Ill. Filed Dec. 10, 1920. Serial No. 429,618. 5 Claims. (Cl. 244—29.)



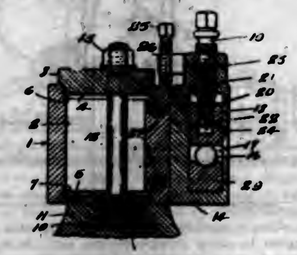
1. An aeroplane comprising a body portion and a rear tubular portion, a partially-rotating rigid skeleton member located within the tubular portion having one end pivotally mounted therein, an operating lever pivotally connected thereto, a guiding plane mounted in the rear end of the rear portion and capable of being vertically and laterally tilted, a connection between said guiding plane and operating lever whereby the said guiding plane may be vertically and laterally tilted, simultaneously, adjustable ailerons, and a connection between said ailerons whereby when the guiding plane is laterally tilted the said ailerons will be simultaneously adjusted.

1,396,460. RENEWABLE FUSE. MORRIS POWELL, New York, N. Y. Filed June 16, 1919. Serial No. 304,523. 7 Claims. (Cl. 200—120.)



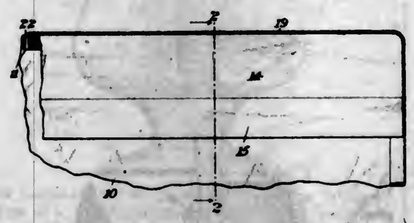
1. In combination, a hollow dielectric body; a conducting shell on said body; a contact member in the body and connected to said shell; a removable dielectric member in said body and having a metal outer end; a fuse connected to said outer end and having its inner end in contact with said contact member; and a clamping means adapted to be adjusted to tightly and releasably clamp said fuse on the contact member.

1,396,461. TOOL-POST. GEORGE G. PORTER, Syracuse, N. Y. Filed Oct. 7, 1919. Serial No. 329,408. 7 Claims. (Cl. 82—37.)



1. A tool post comprising a tubular body, a base, disks located in opposite ends of the tubular body, a screw extending through the disks and into the base, and tool holding means associated with the body, substantially as and for the purpose described.

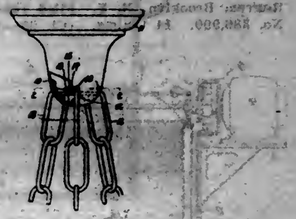
1,396,462. GARMENT. MAX PUGATSKY and ROBERT D. VON RENTSCH, New York, N. Y. Filed Dec. 17, 1919. Serial No. 345,542. 7 Claims. (Cl. 2—142.)



1. In a garment, an edging and lining construction comprising a stiffening member, a lining member, and an edging member, the said members being connected to the body of the garment and to each other by a line of concealed stitching.

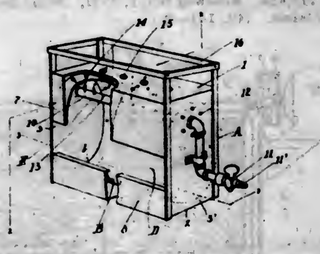
6. As a new article of manufacture, a composite waistband structure, for application to the trousers material as a unit, comprising a stiffening member, a lining member secured to the stiffening member, and an edging member secured to the outer face of the lining member adjacent the edge of the lining member and in position to project beyond the edge of a garment and the edge of the lining member when the waistband is secured to the edge of a garment and overturned.

1,396,463. FASTENING MEANS FOR THE SUSPENSION-CHAINS OF ELECTRIC FIXTURES. ADOLPH C. RICKER, Oakville, Conn., assignor to The Chase Companies Inc., Waterbury, Conn., a Corporation. Filed Feb. 28, 1921. Serial No. 448,091. 1 Claim. (Cl. 240—87.)



Fastening means for the suspension-chains of electric fixtures, consisting of a canopy formed at its cone-like lower end with a plurality of vertical slots, and a suspension-ring adapted to be supported within the canopy in the horizontal plane at a point between the upper and lower ends of the said slots, and having its ends separated to form an assembling gap and upturned to form detents.

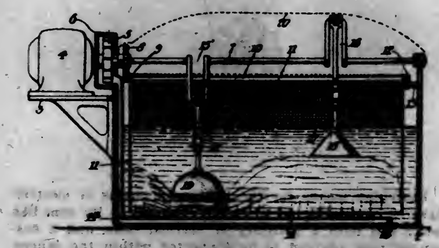
1,396,464. COMBINATION HEATER AND COOKER. PETER REINHARDT, St. Paul, Minn. Filed Oct. 8, 1920. Serial No. 415,567. 1 Claim. (Cl. 126—60.)



In a combined heater and cook stove, the combination, a rectangular long casing having flat surrounding outer walls and a flat top and bottom, said top having a row of holes, and the front wall having a long narrow heat discharge opening for discharging heat into the room, said opening extending to the end walls and being located as a whole, nearer the bottom than the top of said casing, a lining sheet for the casing extending longitudinally of the casing to the end walls thereof, and transversely of the casing in a curve from the upper edge of said opening upwardly to a point adjacent the top, and downward into contacting relation with a vertically central point on the rear wall and then adjacent to a point longitudinally central of the bottom and terminating at the lower edge of said opening, whereby is formed an upper and lower air chamber located respectively directly under the top, and immediately above the bottom of the casing, the transverse section of said air chambers being approximately symmetrical about a vertical longitudinal plane central of the casing, whereby the heated air will be evenly distributed on either side of said plane in said chambers, a row of perforations in the top of said lining arranged

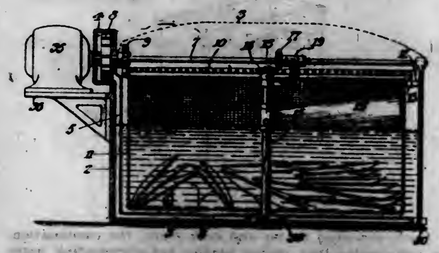
longitudinally central of the casing, and being appreciably smaller than said holes in the top of the casing, a gas burner having a row of gas outlets extending longitudinally centrally of the casing and located nearer said perforations than to the upper edge of said heat discharge opening, so as to form an upper relatively deep area between said burner and said opening, whereby to facilitate the entry of the rising heated air from said jets through said perforations in the lining and said holes in the top of the casing, and air inlets in the end wall of said casing adjacently surrounding said burner, said air inlets being wholly above said heat discharge opening.

1,396,465. CLOTHES-WASHING MACHINE. August E. Roever, Brooklyn, N. Y. Filed June 7, 1920. Serial No. 386,990. 14 Claims. (Cl. 68—19.)



9. In a machine for washing clothes, the combination of means comprising a vacuum plunger operative to subject the clothes to a vacuum, means effective to force air into and through the clothes, and means for operating both of said means simultaneously.

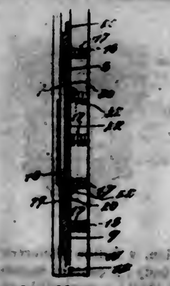
1,396,466. DISH-WASHING MACHINE. August E. Roever, Brooklyn, N. Y. Filed Aug. 23, 1916, Serial No. 116,423. Renewed Oct. 1, 1921. Serial No. 504,731. 16 Claims. (Cl. 141—9.)



16. In a dish washing machine, the combination of a casing, a rotatable dish supporting drum within said casing, motor driven means for rotating the drum within the casing, a fan for forcing air into the drum at the bottom thereof and having connection with the means for rotating the casing whereby both are operated by the same means simultaneously, and rotatable means within the drum for removing the scum and also operated by said drum rotating means.

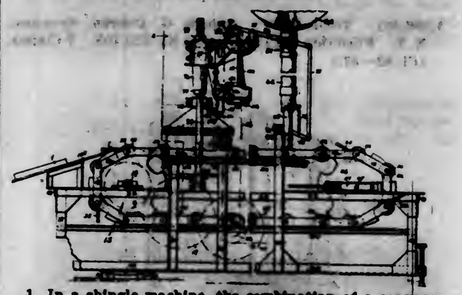
1,396,467. ADVERTISING-SIGN. Arthur Schlosser, New York, N. Y. Filed Mar. 7, 1921. Serial No. 450,179. 2 Claims. (Cl. 40—142.)

1. In a sign, frame members provided with grooves, extending longitudinally thereof, bars extending across said frame having the ends thereof in slidable engagement with a groove in an adjacent frame member, means to secure the bars in adjusted positions in said grooves, each of said bars being provided with a rabbet extending longitudinally thereof, carriers for advertising matter arranged to engage said rabbets, and resilient clips carried



by the carriers to releasably engage the rear wall of said rabbets.

1,396,468. SHINGLE-MACHINE. Richard E. Schwabe, Royal Oak township, Oakland county, Mich. Filed Mar. 5, 1921. Serial No. 449,832. 14 Claims. (Cl. 25—43.)



1. In a shingle machine, the combination of a conveyer chain adapted to carry shingle molds, said chain embodying carrier wheels, a track for said wheels, a support to hold the molds while the excess water is forced therefrom, and rails on which the carrier wheels may travel, said rails having depressions so that the chains may lower the molds onto the support.

1,396,469. DISPENSING-CONTAINER. Mary J. Steele, San Francisco, Calif. Filed July 26, 1920. Serial No. 398,896. 5 Claims. (Cl. 221—113.)



1. A dispensing device comprising a container provided with a spout having an extension within the container,

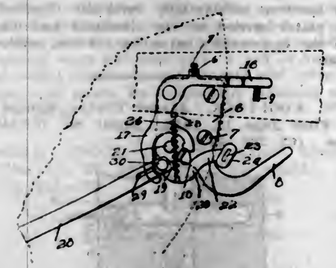
said extension having an aperture to admit fluid from the container; means for maintaining a constant level of fluid within the container; a plunger slidably mounted within said extension; and an operating rod adjustably secured to said plunger and extending outwardly through the spout to dispense fluid through said spout; and means mounted upon the outer end of said operating rod arranged to close the mouth of the spout when the plunger is in the receded position.

1,396,470. GOLF-CLUB. Thomas Taylor, Chicago, Ill. Filed Feb. 10, 1921. Serial No. 443,947. 1 Claim. (Cl. 46—4.)



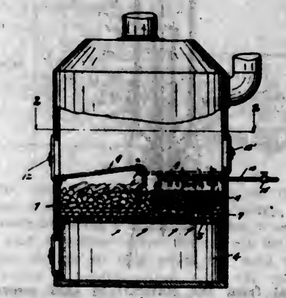
A golf club comprising in combination a handle which is stream line in cross section, the ratio of fineness of which section increases as the head is approached, a head having a portion projecting to join the handle, which portion is stream lined in cross section and which head is stream lined in horizontal section and in a vertical section taken on a plane perpendicular to the face.

1,396,471. PHONOGRAPH-BRAKE. William C. Tzuniak, Grand Rapids, Mich. Filed June 17, 1920. Serial No. 389,687. 4 Claims. (Cl. 192—116.)



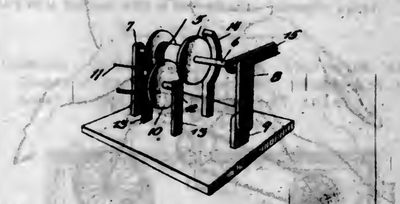
1. In combination with the record supporting table and tone arm of a sound reproducing machine, an automatic stopping mechanism including a plate, an adjusting arm forming a part of the plate, a brake arm pivotally connected to the plate, a controlling lever pivotally connected to the plate, means for connecting the controlling lever and brake arm whereby movement of the controlling lever will cause a relative movement of the brake arm to cause the same to contact with the table, a tripping lever carried by the tone arm, said tripping lever adapted to move into engagement with the adjusting arm to cause the tripping lever to be automatically set, and said tripping lever adapted to move into engagement with the controlling lever for causing the operation of the brake arm.

1,396,472. FUEL-SAVING DEVICE. Adam P. Thomasson, Chicago, Ill. Filed Apr. 2, 1921. Serial No. 457,909. 4 Claims. (Cl. 126—88.)



1. In combination with a heating apparatus having a grate and oppositely arranged doors; a supporting member rotatably mounted in the combustion chamber of said heating apparatus; a draft shield having a depending flange formed on said member and operative therewith; and a handle formed on said supporting member for manipulating said shield over opposite portions of said grate, substantially as described.

1,396,473. DRILLING-RIG. Joseph James Thompson, Los Angeles, Calif. Filed Sept. 11, 1920. Serial No. 409,529. 1 Claim. (Cl. 254—186.)



In a well drilling rig, the combination with the controlling cable and a reel on which the cable winds, a shaft to which the reel is fixed, a fixed post to which one end of the shaft is mounted to swing, a support spaced from the post, a swinging post pivoted to the fixed support and receiving the opposite end of the shaft for swinging movement in a direction substantially transverse to the axis of the shaft, a friction disk mounted at one side of the reel to be engaged thereby when the reel is swung in one direction, means for rotating the disk, a brake shoe at the opposite side of the reel for engagement by the reel when it is swung in the opposite direction, and an adjustable throw lever having positive and adjustable connection with the reel shaft for swinging the latter and holding it in an adjusted position.

1,396,474. SHAVING-BRUSH. Raymond F. Tibbetts, Chicago, Ill. Filed Feb. 21, 1920. Serial No. 360,511. 9 Claims. (Cl. 15—60.)

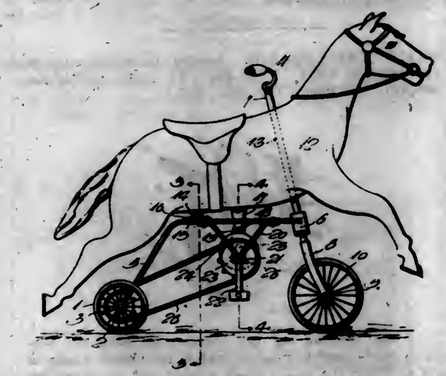
1. A shaving brush, comprising a tuft of bristles, a handle providing a reservoir for shaving material, a tube opening into said tuft of bristles and extending into said reservoir and having perforations near the end of said

reservoir adjacent said tuft of bristles, a plunger movable in said tube, and means for scraping a quantity of shav-



ing material from the material in said reservoir and feeding the same through said perforations.

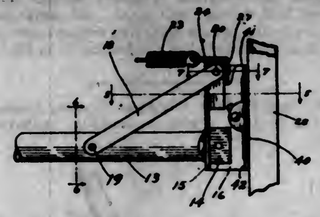
1,396,475. HOBBYHORSE. DANIEL F. TRACEY, Huntington, W. Va., assignor to The Loping Horse & Novelty Co., Huntington, W. Va., a Corporation of West Virginia. Filed Dec. 15, 1919. Serial No. 345,096. 1 Claim. (Cl. 208—42.)



In a tricycle, a frame, including a steering means for the front wheel, and rear driving wheels, a drive shaft suspended beneath the frame intermediate its wheels, a drive sprocket keyed to said shaft, a propelling connection between the drive sprocket and rear wheels, a cam positioned on the sprocket shaft, said cam being adjustable to effect its eccentric and concentric positioning with respect to the shaft, a body hingedly mounted adjacent its rear extremity to the frame, and a tappet depending from the body and riding said cam to produce a loping motion of the body when said cam is mounted eccentrically of the sprocket shaft, and an even motion when mounted concentrically of said shaft, substantially as described.

1,396,476. BEDSTEAD. DON CARLOS TRAVIS, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed May 15, 1918. Serial No. 234,643. 10 Claims. (Cl. 5—55.)

1. In a detachable connection for metal bedsteads, the combination of a tubular bed post, a side rail, a vertically extending angle iron mounted on the end of said side rail and having a longitudinally extending flange provided with a depending inclined tongue, a transversely extending member on said post adapted to



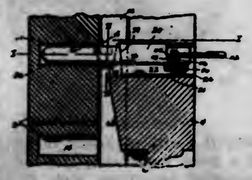
wedgingly engage said tongue, a second angle member secured to the other flange of said first angle member, and a brace connecting said second angle member to said rail.

1,396,477. AXLE-GAGING DEVICE. DAVID H. TURNBULL, Mishawaka, Ind. Filed Dec. 24, 1917. Serial No. 208,678. 2 Claims. (Cl. 33—193.)



1. An axle gaging device comprising spaced standards, means for adjusting said standards in relation to each other, vertically disposed pins rotatably mounted in bearings in the upper ends of the standards, axle spindle receiving heads pivoted to the upper ends of the pins and movable in a vertical plane, horizontally disposed arms carried by said heads and parallel to each other, brackets carried by the standards and underlying the horizontally disposed arms and provided with marking portions, outwardly and downwardly extending arms carried by the opposite sides of the heads and having their downwardly disposed portions substantially vertically disposed and marking plates carried by the standards and disposed adjacent the downwardly extending vertical portions of said arms.

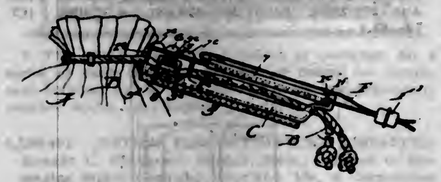
1,396,478. SASH-LOCK. ALBERT TURNEY, Kansas City, Mo. Filed June 12, 1916. Serial No. 103,140. 4 Claims. (Cl. 292—57.)



1. A sash lock construction comprising upper and lower sash members, the upper of said members being provided with a bolt-receiving opening, a bolt sheath carried by the lower sash member, said bolt sheath having one end formed as a cam edge of curved contour and corresponding in size to the size of said bolt-receiving opening and adapted to be positioned opposite and in

register with said opening, and a bolt movably mounted on said lower sash member and adapted to be projected through said bolt sheath into said opening, said bolt being provided with a lug adapted, on turning of the bolt, to cooperate with said cam edge and the margin of said opening to effect a separating movement of the sash members.

1,396,479. BAG-TIE SEAL-LOCK. EMIL TYDEN, Evanston, Ill. Filed Jan. 6, 1921. Serial No. 435,404. 8 Claims. (Cl. 24—30.5.)



8. In combination with a base having a cord run-way, a clamping jaw carried by the base opposite the cord run-way; a latch adapted at one position to be locked to the base, and having means for clamping the jaw onto the cord runway by its movement to that position; the base having at the opposite side from that at which the clamping jaw is situated a tag-receiving slide-way whose end open for entering the tag thereinto is substantially even with the end of the base at which the clamping jaw is situated, said clamping jaw having a projection which is thrust across said opening to bar the escape of the tag by the cord-clamping movement of said clamping jaw.

1,396,480. SANITARY SEAT-COVER. FRED M. VANSICKLE, Lewiston, Idaho. Filed June 23, 1921. Serial No. 479,717. 2 Claims. (Cl. 4—18.)



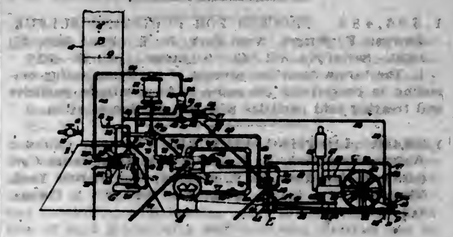
1. The combination in a device as described with a seat, of a lid hinged thereto and elevated above said seat, an open pocket fixed to said lid and comprising a pair of spaced walls and base plate, a pad of loose leaves in said pocket adapted to rest on said seat when the lid is closed, and means for temporarily retaining said leaves in the pocket.

1,396,481. SPOOL. DAVID F. VAUGHAN, Riverton, N. J. Filed Dec. 22, 1920. Serial No. 432,541. 4 Claims. (Cl. 242—118.)



1. A spool having a body portion and an end flange, the inner face of the flange being provided with a series of under cut corrugations, and each corrugation having a surface which extends toward the axis of the spool and toward the body of the flange from a plane extending at right angles to the turning axis of the spool.

1,396,482. FLUID-PRESSURE SYSTEM. FRED S. VAUGHN, Quincy, Ill., assignor to Automatic Gas Power Company, Quincy, Ill., a Corporation of South Dakota. Filed Apr. 17, 1915. Serial No. 21,961. 20 Claims. (Cl. 103—86.)



1. The combination in a system of the character described, a fluid storage, a motor, a pump, a fluid operated means including a balancing device, a reversing valve device and a primer valve device, all being connected with the storage so that when the fluid in the latter drops below a predetermined level the fluid will flow from said storage into and operate said pump for starting said motor, and a control device operated by said motor and adapted when the latter attains a certain speed to effect the reversal of said fluid operated means so as to permit the fluid to flow from said pump into said storage.

1,396,483. GREEN DYESTUFF AND PROCESS OF MAKING SAME. VICTOR VILLIGER and HEINRICH VON KRANNICHFELDT, Ludwigshafen-on-the-Rhine, Germany. Filed July 9, 1920. Serial No. 395,182. 4 Claims. (Cl. 8—1.)

2. The process of producing a green product by heating alpha-naphthoquinone in the presence of water, until it is substantially decomposed and treating the yellow product first formed with a non-alkaline reducing agent.

1,396,484. ORNAMENTAL TRAY AND THE LIKE. GLADYS H. WEINRICH, Chicago, Ill. Filed Feb. 24, 1920. Serial No. 360,573. 2 Claims. (Cl. 41—22.)



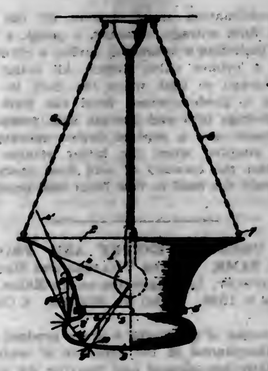
2. The method of producing a background sky effect for ornamental trays and the like, which consists in first establishing a backing of substantially white material, preparing two separate batches of fibrous material one of which is tinted a substantially uniform tone of one color throughout its mass, and the other of which is tinted a substantially uniform tone of another color throughout its mass, thereafter building up the desired color scheme and arrangement on the white background by successive applications of finely divided portions of tinted fibers from the two batches, applying such material in finely separated portions and by successive applications at different points

on the background, to thereby build up at each point on the background a color tone and shape which is the resultant of the several applications of material from the two batches at such point, substantially as and for the purpose set forth.

1,396,485. PROCESS FOR PURIFYING SULFUR. EDWARD F. WHITE, New York, N. Y. Filed Feb. 25, 1920. Serial No. 361,183. 9 Claims. (Cl. 23—10.)

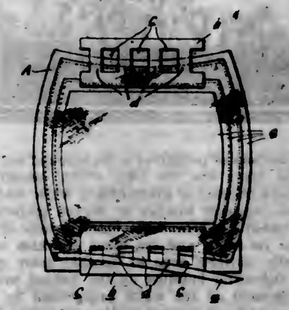
1. The herein described process of purifying sulfur consisting in pulverizing the same to form minute particles and treating said particles with an alkaline solution.

1,396,486. LIGHTING-FIXTURE. ERNEST CANTELO WHITE, New York, N. Y., assignor to Duplexalite Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 11, 1919. Serial No. 289,184. 2 Claims. (Cl. 240—92.)



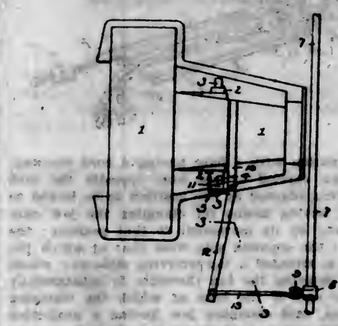
1. A lighting fixture comprising, a light source, a fixture support, an opaque reflector surrounding the source, such reflector being open at the top and bottom to permit the passage of light rays through such openings, and having an upwardly flaring concave outer surface in vertical cross-section and having attached to the lower opening of the reflector a translucent member extending beyond the lower opening and within the diameter of the upper opening, constructed to direct a portion of the light rays transmitted thereby to the outer surface of the reflector.

1,396,487. BLOW-OUT BOOT. GEORGE G. WILLIAMS, Dallas, Tex. Filed Sept. 8, 1920. Serial No. 408,939. 2 Claims. (Cl. 152—24.)



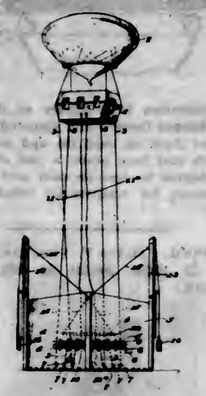
1. A blow-out boot divided longitudinally and having strips along its divided edges, said strips adapted to overlap and each of said strips being fashioned with transverse slots spaced from each other to form intermediate loops, the loops of one of said strips adapted to register with and enter the slots of the companion strip, and a thong extending longitudinally of the boot adapted to be laced through the exposed loops of one of said strips and to overlie the loop-portions of the other strip.

1,396,488. BRAKE-ACTUATING MECHANISM FOR AUTOMOBILES. JOHN WILLIAMS, CALVIN C. WILLIAMS, and HENRY WILLIAMS, Philadelphia, Pa. Filed Aug. 27, 1920. Serial No. 406,434. 4 Claims. (Cl. 74—81.)



1. The combination, in an automobile, of a longitudinally movable service brake rock shaft, an emergency brake rock shaft, and connecting mechanism therebetween whereby, when said emergency brake rock shaft is rocked, said service brake rock shaft is longitudinally moved without being rocked.

1,396,489. AERIAL APPARATUS. JOSEPH T. C. WILLIAMS, Aflex, Ky. Filed Jan. 11, 1921. Serial No. 436,549. 4 Claims. (Cl. 244—4.)



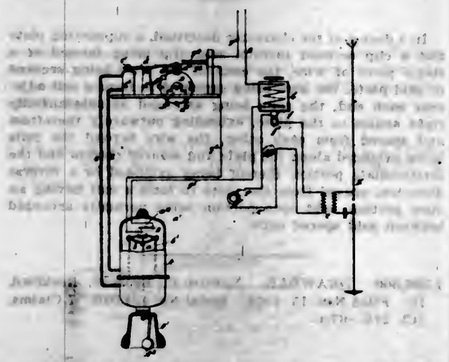
1. In a means for the purpose described, the combination of a balloon, a car suspended from the balloon, a house adapted to receive the car and balloon and having a movable roof, a vertically movable support for the car within the house, connections between said support and the roof whereby the roof will be moved to closed position when the car is on said support and the latter is in its lowered position, and a cable extending from the car to the interior of the house and adapted to control vertical movement of the balloon and car.

1,396,490. FILING-CABINET OR THE LIKE. PAUL F. WILLIAMS, Chicago, Ill. Filed Jan. 19, 1915. Serial No. 3,001. 30 Claims. (Cl. 129—16.)



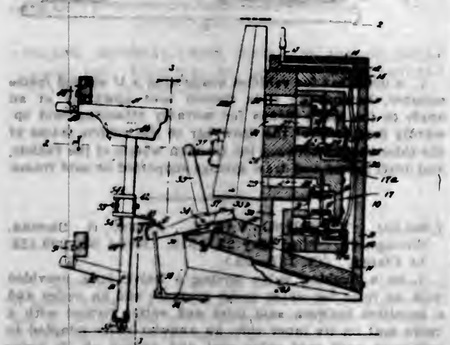
1. The combination with a holder or container for a series of cards or other articles, of means for moving said articles one by one sidewise from one position to another within said holder or container.

1,396,491. DEVICE FOR ESTIMATING DISTANCES. ROBERT L. WILLIAMS, Newton, Mass., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed June 24, 1919. Serial No. 306,366. 7 Claims. (Cl. 181—.5.)



1. In a signaling system, in combination, a submarine signaling apparatus and a radio transmitter, and means whereby said transmitter will be operated to give a single signal simultaneously with said apparatus during a portion of the operation of said apparatus, and said apparatus will operate independently of said transmitter during the remaining portion thereof.

1,396,492. PNEUMATIC ACTION. WALTER J. WODRASKA, New York, N. Y. Filed June 26, 1920. Serial No. 391,856. 5 Claims. (Cl. 84—50.)

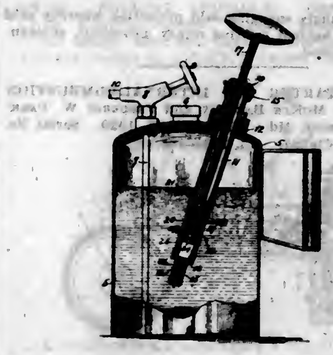


1. In a pneumatic action for player pianos, the combination with a main casing and a plurality of pneumatics carried thereby and arranged in pairs, one pneumatic of each pair being arranged vertically and the other horizontally, of key actuating means including a bell crank for each vertically arranged pneumatic, and an arm for each horizontally arranged pneumatic.

1,396,493. PROCESS OF MAKING PROPELLENT POWDER. RICHARD GEORGE WOODBRIDGE, Jr., Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Mar. 14, 1921. Serial No. 452,263. 7 Claims. (Cl. 52—20.)

1. The process which comprises heating substantially dry nitrocellulose powder grains at a temperature of from about 70 to 80° C. in contact with a deterrent material capable of diffusing into said grains at said temperature, and continuing said heating until substantial impregnation of said grains with said deterrent material has occurred.

1,396,494. AIR-PUMP. RICHARD WRIGHT, Philadelphia, Pa. Filed Apr. 5, 1920. Serial No. 371,413. 4 Claims. (Cl. 230—24.)



1. In a pump, the combination of a cylinder having a free opening at its upper end and an outlet at its lower end, a valve normally closing said outlet and opened by pressure below the piston, a piston, a by-pass port through the piston and discharging into the cylinder above the piston, an upwardly opening valve in said by-pass port, a spring for yieldingly holding said valve on its seat and means for adjusting the tension of said spring.

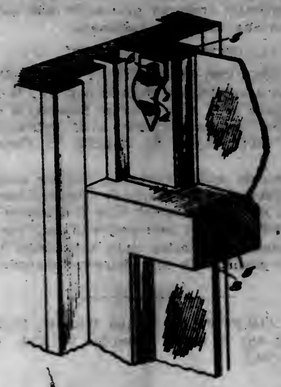
1,396,495. COMPOSITION. ABRAHAM J. BARWSKIN, Chicago, Ill. Filed Apr. 28, 1919. Serial No. 293,822. 2 Claims. (Cl. 148—24.)

1. A preparation adapted to be applied to gold or silver portions which are to be welded, comprising a solution of mercury in nitric acid, mixed with boracic acid, niter, and jet black ink, substantially as described.

1,396,496. WINDOW-LOCK. CHRISTIAN E. BARBIER, Chicago, Ill. Filed Sept. 28, 1918. Serial No. 256,133. 1 Claim. (Cl. 292—342.)

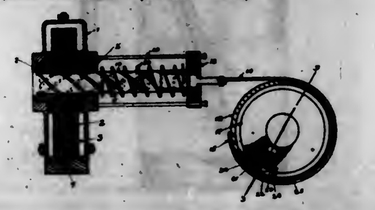
The combination with a pair of slidably mounted window sashes, of a stop interposed between said sashes, the same being carried by one of said sashes and adapted for engagement by the other to lock said sashes against relative movement, said stop being formed of a single piece of metal having its ends positioned in the same plane and contacting with the sash carrying the stop, the central portion of said stop being bowed outwardly from the sash carrying the same for engagement with the other sash; means for detachably securing the said stop to the first

mentioned mesh comprising a square projection on said mesh; and an opening of corresponding shape in one end



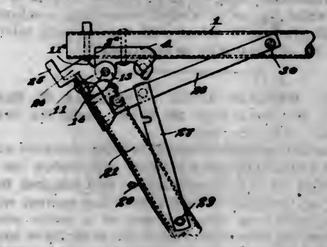
of said stop snugly engaging said projection whereby said stop is locked against relative rotary movement, substantially as described.

1,396,497. STARTER FOR INTERNAL-COMBUSTION ENGINES. McKEE BARCLAY and FREDERIC W. PARKHILL, Baltimore, Md. Filed Jan. 22, 1920. Serial No. 353,535. 5 Claims. (Cl. 123—185.)



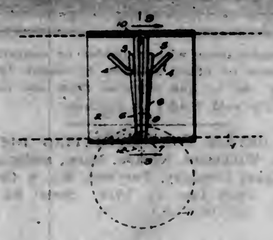
1. A mechanical starter for internal combustion engines comprising a collar loosely mounted upon the engine shaft, a drum inclosing said collar, clutch means carried by the collar and drum for gripping the shaft, a strap around and attached at one end to the periphery of the drum and having the other end attached to the end of a spirally grooved member which is adapted to move longitudinally through a corresponding internally threaded pinion, and a rack for rotating the gear, substantially as described.

1,396,498. HAMMOCK-SUPPORT. LOUIS I. BECKWITH, Boston, Mass. Filed Mar. 29, 1921. Serial No. 456,554. 12 Claims. (Cl. 5—82.)



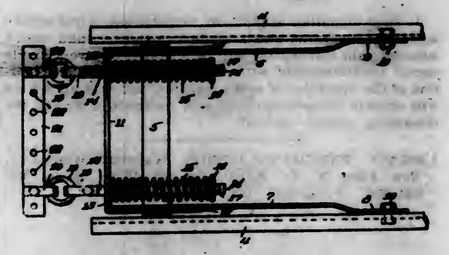
1. A support comprising a transverse member, a bracket fixedly secured adjacent to the end of said member, a carrier pivotally secured to said bracket to swing about an axis transverse to that of said transverse member, a pair of leg holders pivotally secured to said carrier, and legs fixed to the respective holders.

1,396,499. CHECK-HOLDER. CHARLES E. BELL, Fairmont, W. Va., assignor of one-half to Samuel Hale, Fairmont, W. Va. Filed Apr. 9, 1921. Serial No. 460,013. 1 Claim. (Cl. 40—11.)



In a device of the character described, a supporting plate and a clip secured thereto, said clip being formed of a single piece of wire, the ends of the wire being secured to said plate, the wire being extended to form a coil adjacent each end, the coils being arranged at substantially right angles to the plate, extending outwardly therefrom and spaced from each other, the wire beyond the coils being extended along the plate and secured thereto and the intermediate portion thereof being extended in a reverse direction, spaced from the plate to form a coil having an open portion, said open portion being normally arranged between said spaced coils.

1,396,500. DRAWBAR. NAHUM C. EMMERT, Rockford, Ill. Filed Nov. 15, 1920. Serial No. 424,046. 7 Claims. (Cl. 213—67.)



1. A draw bar for vehicles comprising a U shaped frame member, having the ends thereof bent upwardly at an angle to the sides, means for movably attaching said upwardly bent ends of the draw bar to the vehicle frame at the sides thereof between the traction wheels of the vehicle, and draft beams and draw springs supported on said frame.

1,396,501. FLUSHING-VALVE. ROBERT A. BROOKS, Chicago, Ill. Filed May 23, 1919. Serial No. 299,123. 14 Claims. (Cl. 137—93.)

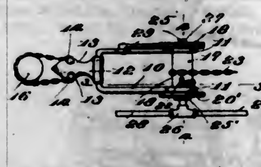
1. In a flushing valve having a valve body provided with an inlet for water under pressure and an outlet and a partition between said inlet and outlet formed with a valve seat on its inner side, an annular valve adapted to coöperate with said valve seat and having on its outer side a valve seat, a manually-operable main valve opening

outwardly and coöperating with said last mentioned seat, a cylinder, and a piston in said cylinder exposed to water pressure and connected to said main valve and having a



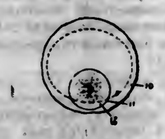
greater pressure area than said main valve, the effective pressure area of said annular valve being greater than the difference between the pressure areas of said main valve and said piston.

1,396,502. WIRE-STRETCHER. MILTON E. BUCK, Ematon, Kans. Filed Mar. 31, 1919. Serial No. 286,298. 4 Claims. (Cl. 254—162.)



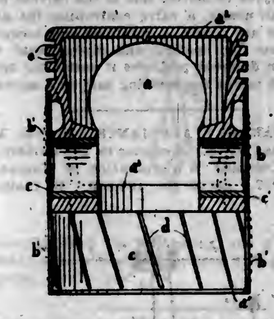
1. A winding drum whose body is provided with an axial bore of angular cross section and counterbored in one end to produce a cavity, the other end of the body being enlarged to form one head and provided with peripheral teeth, a second head composed of a boss of a size to fit the counterbore and a disk larger than the boss, a shaft through the elements of the second head and the bore of the body, bearings in which the device is mounted, means for turning the shaft, and retaining means engaging said teeth.

1,396,503. BIFOCAL LENS. LUCIAN W. BUGBEE, Indianapolis, Ind. Filed May 23, 1921. Serial No. 471,964. 11 Claims. (Cl. 88—54.)



1. A bifocal lens in which the reading segment is formed of added glass of a higher index than the remaining portion of the lens and which permits the passage through it of only the light at the middle portion of the visible spectrum.

1,396,504. TRUNK-PISTON. PHILIP CHALLIS, London, England. Filed Mar. 16, 1920. Serial No. 366,368. 12 Claims. (Cl. 74—108.)



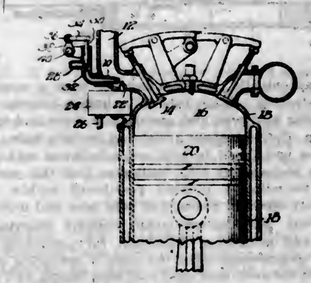
1. A piston, comprising a head, and a skirt, said skirt having an annular protuberant portion above and below the gudgeon pin bearing of said piston.

1,396,505. ROCKING TRICYCLE. NORBERT CHAPDELAINE, Montreal, Quebec, Canada, assignor to Allan Angus Magee, Montreal, Quebec, Canada. Filed Jan. 17, 1921. Serial No. 437,821. 2 Claims. (Cl. 208—165.)



1. A rocking tricycle comprising a body in the form of an animal having rearwardly extending hind legs and a wheel pivotally secured between said hind legs with an eccentrically situated pivot in relation to the thread of the wheel, a pair of wheels supporting the front legs, parallel bars pivotally secured at the ends and connected to said front wheels, one of said bars forming the direct support for said front legs, and a steering post suitably connected with the said parallel bars.

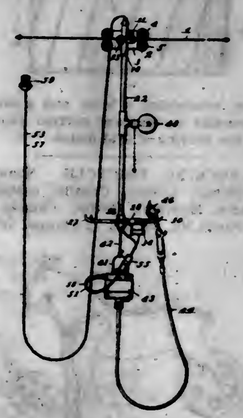
1,396,506. GAS-ENGINE. JAMES A. CHARTER, Chicago, Ill. Original application filed Sept. 15, 1919, Serial No. 323,888. Divided and this application filed May 20, 1920. Serial No. 382,874. 3 Claims. (Cl. 123—123.)



1. In mechanism of the class described, in combination with an engine and its intake passage, an independent air

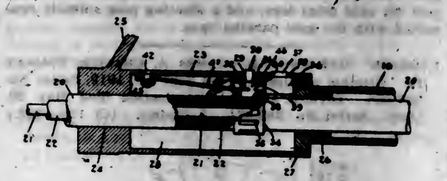
nozzle entering said passage adapted to independently deliver air through said passage directly to the engine cylinder, a fuel supply nozzle adjacent to said independent air nozzle adapted to deliver fuel to the current of air delivered by said nozzle, a valve controlling the admission of air to said air nozzle, a rotatable and reciprocatable cam mechanism for opening and closing said valve so shaped that in different positions it varies the opening of the valve, and means for rotating said cam mechanism.

1,396,507. BARBER'S APPLIANCE. SAMUEL M. COFFMAN, Kansas City, Mo., assignor to The Barbers Electric Specialty Company, a Corporation of Kansas. Filed Oct. 10, 1917. Serial No. 195,869. 10 Claims. (Cl. 105—150.)



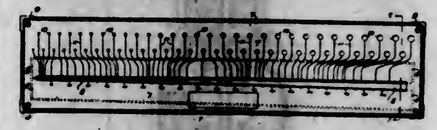
1. In an appliance of the character described, a wire track supported at each end, a carriage to traverse said track, means on said carriage to grip the track and hold the carriage stationary, suspension means depending from said carriage, and a device supporting means secured to said suspension means.

1,396,508. AUTOMOBILE-STEERING-COLUMN LOCK. WILLIAM H. DUNN, Anderson, Ind. Filed Mar. 6, 1920. Serial No. 363,722. 4 Claims. (Cl. 70—99.)



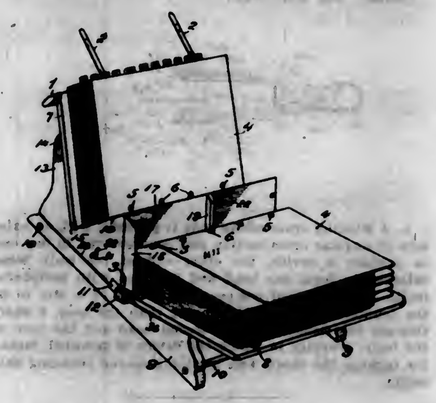
1. In an automobile, the combination with a steering post, and a steering column tube, of a hollow tubular casing surrounding said post and spaced therefrom and forming a portion of the inclosing steering column tube, and locking means positioned in said space between said post and the tube inclosed by said casing to lock the post to the casing, including a plunger positioned within said casing and between said casing and said post and movable radially thereof, push button means slidably mounted in said casing and projecting therefrom for projecting the plunger into engagement with the post, a centering member positioned between said post and said casing and slidably supporting said plunger, a locking tooth slidably supported in said plunger centering member and guided thereby for locking said plunger in the locked position and supporting said plunger in the locked position and supporting said plunger in the unlocked position, means for actuating said plunger in the locked and unlocked position, means for actuating said tooth, and spring means for normally holding said plunger in the nonengageable position.

1,396,509. DRILL-BLOCK. HARRY FALTERMAYER, Philadelphia, Pa., assignor of one-half to Fred E. Russell, Langhorne, Pa. Filed Feb. 18, 1920. Serial No. 358,523. 9 Claims. (Cl. 33—201.)



1. The combination of a metallic supporting structure having two hardened straight edges defining a tapering slot; and a graduated plate overlying said structure provided with a graduated edge extending adjacent one of said edges to indicate the width of said slot at any point thereof.

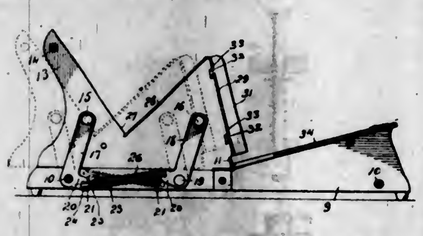
1,396,510. POSTING APPARATUS. CHARLES R. FARGO and PAUL O. UNGER, Kansas City, Mo., assignors to Irving-Pitt Manufacturing Company, Kansas City, Mo., a Corporation of Missouri. Filed Feb. 21, 1920. Serial No. 360,502. 20 Claims. (Cl. 129—12.)



1. In a posting apparatus, the combination with a binder having two clamping members, one having two posts for receiving loose leaves, the other member being adapted to slidably engage said posts, of leaves, each having two holes for respectively receiving said posts and two edge notches intermediate of said holes adapted to receive said posts, the holes and the notches being spaced at equal distances apart.

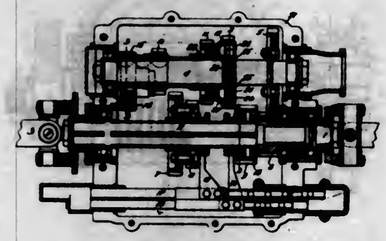
15. In a posting apparatus, the combination with a binder having two clamping members, one having two posts adapted for operative engagement with the other binder member, of a support for said other binder member, and leaf registering means arranged to register loose leaves in a normal and in an offset position, said posts being insertible through said loose leaves when the registering means is in the registering position, the registering means being movable to and from the registering position.

1,396,511. POSTING DEVICE. CHARLES R. FARGO and PAUL O. UNGER, Kansas City, Mo., assignors to Irving-Pitt Manufacturing Company, Kansas City, Mo., a Corporation of Missouri. Filed Mar. 13, 1920. Serial No. 365,507. 37 Claims. (Cl. 45—57.)



25. In a posting device, a support for the binder member having positioning means therefor, loose leaf registering means cooperating with said positioning means, a support for the registering means, two swinging members carried by the binder member support and carrying said registering means support so that the latter can swing from the registering to an inactive position, a rod carried by one of said swinging members and slidably engaging the other swinging member, and a coil spring encircling said rod and having its ends bearing respectively against said swinging members and arranged to resist the swinging of said swinging members from one of said positions to the other position.

1,396,512. CHANGE-SPEED-GEAR TRANSMISSION. DAVID FERGUSSON, Buffalo, N. Y., assignor to The Pierce Arrow Motor Car Company, Buffalo, N. Y. Filed Mar. 8, 1919. Serial No. 281,327. 3 Claims. (Cl. 74—58.)



1. In a change speed gear transmission, the combination of a driving member, a countershaft driven thereby, a driven shaft, a gear fixed on said countershaft, a loose gear on said countershaft, means by which the countershaft turns said loose gear in one direction and which permit said gear to turn freely in the same direction independently of the countershaft, and gears which are shiftable on the driven shaft one into and out of mesh with said fixed countershaft gear and one into and out of mesh with said loose countershaft gear.

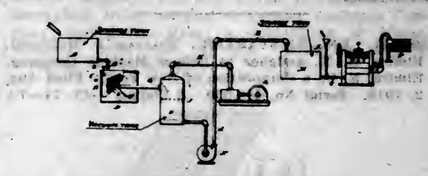
1,396,513. ARTICLE-HOLDER. MOLLIE W. HOLCOMB, Erie, Pa. Filed July 16, 1921. Serial No. 485,324. 1 Claim. (Cl. 24—86.)

A device of the character described, comprising a body portion comprising a horizontal portion doubled upon itself at its ends and each said doubled portion bent to right angles into alined vertical portions, an upwardly extending hook continuing from the lower end of the body portion and having its upper end yieldingly engaging the said horizontal portion, a coil spring as a continuation of the upper end of the body portion, a pin portion extending



downwardly from the coil spring, and a guard extending rearwardly from the body portion and adapted to shield the point of the pin.

1,396,514. PROCESS OF CLARIFYING SOLUTIONS. JASPER A. MCCASKELL, Salt Lake City, Utah. Filed Nov. 4, 1919. Serial No. 335,698. 3 Claims. (Cl. 75—18.)



1. The process herein described of filtering solutions, which process consists, essentially, in refiltering a previously filtered solution and connecting the interior of the filtrate chamber of the refilter with a vacuum chamber; subdividing and substantially atomizing the filtrate as it enters the vacuum chamber; withdrawing from said chamber the liberated dissolved oxygen; and then delivering the refiltered solution to an open storage tank for further treatment.

1,396,515. PNEUMATIC TIRE. WALTER S. MCCLEVEY, St. Louis, Mo. Filed Feb. 21, 1920. Serial No. 360,359. 2 Claims. (Cl. 152—20.)

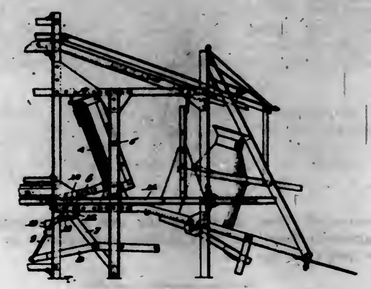


2. In a wheel, a pneumatic tire and a rim for supporting said tire, said rim and said tire having ridges and grooves on portions of their surfaces which are adjacent when the tire is first placed on the rim, other portions of the surfaces which are in contact being smooth and arranged to hold said respective ridges and grooves apart until the air pressure in the tube forces them together.

1,396,516. CAN-WASHING MACHINE. CHARLES F. MCEWAN, Oak Park, Ill., assignor to Harry D. Lathrop, Chicago, Ill. Filed Aug. 25, 1919. Serial No. 319,677. 4 Claims. (Cl. 214—130.)

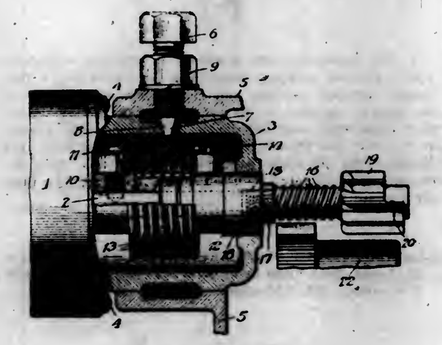
1. A can washing machine, comprising can moving means; means engaging and disengaging said moving

means for operating the same; and means for holding said operating and moving means in engagement during the



operation of the latter, whereby continued operation of the latter under its own inertia is prevented, substantially as described.

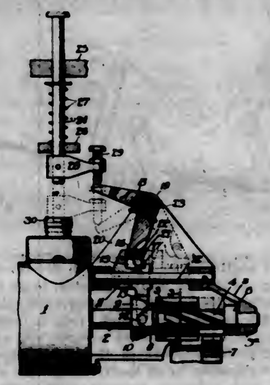
1,396,517. ENGINE-STARTER. WILLIAM L. MCGRATH, Elmira, N. Y., assignor to Eclipse Machine Company, Elmira, N. Y., a Corporation of New York. Filed Aug. 2, 1919. Serial No. 314,950. 5 Claims. (Cl. 74—7.)



1. The combination, with a prime mover and its driving shaft, of a housing secured thereto and having a supporting bearing, and a drive comprising a driving head connected with the driving shaft and located within the housing, and supported by said supporting bearing, a rotatable shaft connected with such head and projecting beyond said housing, said rotatable shaft being not substantially larger in diameter than the driving shaft and in axial alinement therewith, and a driving member mounted upon the rotatable shaft and having a longitudinal movement thereof and rotary movement therewith.

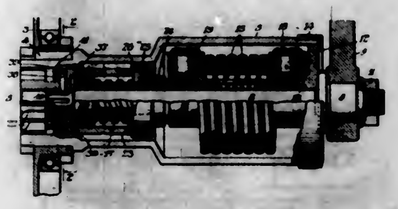
1,396,518. ENGINE-STARTER. WILLIAM L. MCGRATH, Elmira, N. Y., assignor to Eclipse Machine Company, Elmira, N. Y., a Corporation of New York. Filed Nov. 13, 1919. Serial No. 337,725. 14 Claims. (Cl. 74—7.)

1. An engine starter drive including a rotatable shaft, a driving member mounted thereon for rotary movement therewith and for longitudinal movement thereof to engage a part of the engine to be started, and means adapted to cause such longitudinal movement of the driving member and to retract the same and also to cause a slight



rotary movement thereof on its retracting movement away from such engine part.

1,396,519. ENGINE-STARTER. WILLIAM L. MCGRATH, Elmira, N. Y., assignor to Eclipse Machine Company, Elmira, N. Y., a Corporation of New York. Filed Nov. 17, 1919. Serial No. 338,690. 18 Claims. (Cl. 74—7.)

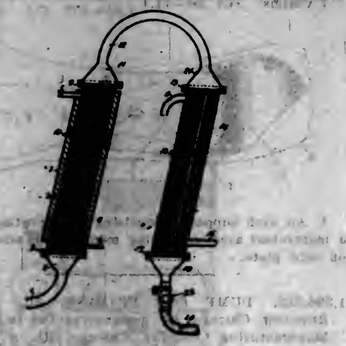


1. An engine starter drive including a rotatable member, a driving member mounted thereon for rotary movement thereof and longitudinal movement therewith to engage a part of the engine to be started and means contained within such driving member normally operative to hold such latter member against rotary movement to enforce its longitudinal movement and operative to hold it retracted when rotating in disengaged position.

1,396,520. APPARATUS FOR STERILIZATION OR PASTEURIZATION OF LIQUIDS. ANDRÉ MÜLERTZ, Copenhagen, Denmark. Filed Aug. 23, 1919. Serial No. 319,491. 2 Claims. (Cl. 257—224.)

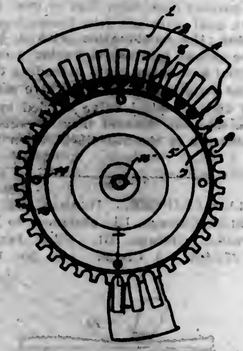
2. An apparatus for sterilising liquids, comprising a set of vertical heating tubes having an inlet and an outlet at opposite ends thereof for causing the liquid to pass continuously in one direction, a set of vertical cooling tubes having an inlet and an outlet at opposite ends, the inlet of the cooling tubes being in communication with the outlet of the heating tubes, means adjacent to the outlet of the heating tubes for supplying a heating medium to the

exterior of said tubes, means adjacent to the outlet of the cooling tubes for supplying a cooling medium to the



exterior of said tubes, and a counter pressure valve in communication with the outlet from said cooling tubes for producing a pressure in the apparatus.

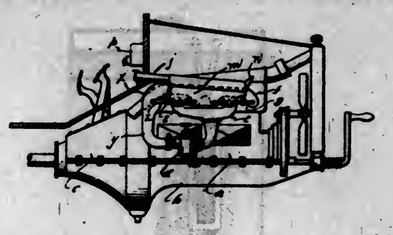
1,396,521. DYNAMO-ELECTRIC MACHINE. ROMAINE W. MYRAS, Oakland, Calif. Filed Nov. 26, 1918. Serial No. 264,144. 6 Claims. (Cl. 171—252.)



4. In a dynamo-electric machine comprising a slotted stator and a rotor, means for closing the slots of the stator and for retaining the coils therein, the same comprising a cylinder formed of magnetic material interposed between the stator and rotor and within which the rotor operates, said cylinder having a varying radial thickness and a relatively high resistance medium disposed longitudinally of said cylinder.

1,396,522. AUTOMOBILE-HEATER. CARL J. PATTERSON and OLIVER J. KILBURN, Jackson, Mich. Filed Jan. 10, 1921. Serial No. 436,066. 1 Claim. (Cl. 237—12.3.)

An exhaust heater for automobiles, comprising an open front and open bottom hood formed of a single piece of metal bent into inverted U section with the long leg of the U arranged to run down the outside of the manifold forming an apron with a free bottom edge into which are cut recesses for straddling the yoke clamp studs and permitting the yoke clamps of the manifold to engage the bottom of the apron to hold the heater to the engine, the top of the hood including the other leg of the U being supported in free suspension above and on the inside of the manifold by the yoke clamps engaging the said apron, a reinforcing sheet of metal secured over the hood at the top and part way down both sides, and a



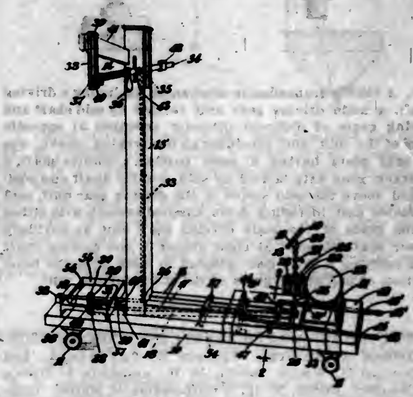
sheet of heat insulating material retained between such reinforcing sheet and the hood, the sheet of metal forming the hood continuing to the rear where it is curled into a tube to deliver the hot gases to the body of the car.

1,396,523. BROACH-TOOTH. JULIAN L. PERKINS, West Springfield, Mass., assignor to Perkins Appliance Company, Springfield, Mass., a Corporation of Massachusetts. Filed June 14, 1920. Serial No. 388,986. 5 Claims. (Cl. 90—38.)



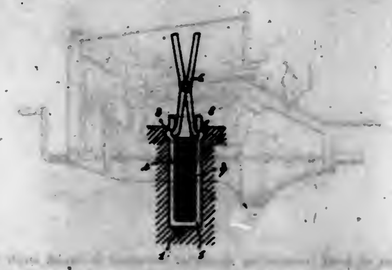
1. A tooth, for a broach, consisting of a body part having a cutting edge, and a chip-clearance passage.

1,396,524. COMBINED EXERCISER AND WEIGHING-SCALE. CLARENCE A. PERRY, Forest Hills, N. Y. Filed Aug. 7, 1920. Serial No. 401,936. 16 Claims. (Cl. 265—20.)



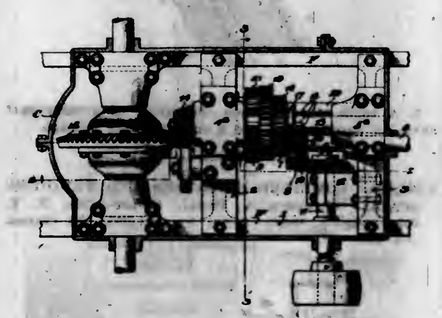
1. In an exercising machine, a lifting lever operatively connected by reduction means to a weighted scale beam, a plurality of selectively shiftable fulcra for said lever for varying the force required to raise said weighted beam, and levers connected with said fulcra for permitting said fulcra to be shifted into inoperative position.

1,396,525. COIL-RETAINER FOR DYNAMO-ELECTRIC MACHINES. Henri Pieper, Liege, Belgium. Filed Nov. 12, 1917. Serial No. 201,691. 9 Claims. (Cl. 171—206.)



6. In a dynamo electric machine the combination with a core member having open slots provided with notches, of form-wound coils and of wire pieces of magnetic metal inclosing the coils and having small parts engaging with said notches.

1,396,526. TRANSMISSION-GEARING. John Powell, Elwood, Ind. Filed June 19, 1918. Serial No. 240,788. 3 Claims. (Cl. 74—58.)

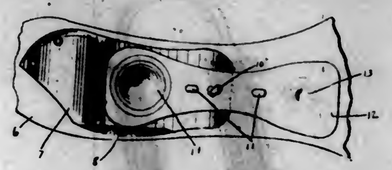


1. A vehicle transmission mechanism including a driving shaft, a main driving gear unit carried by said shaft and having gears of different diameter arranged at opposite ends of the unit and providing an intervening sleeve, one of said gears having a bevel portion, a counter shaft, a shiftable gear unit carried by said counter shaft and positioned above the said sleeve of the driving gear unit, said shiftable unit including gears adapted to mesh with either of the gears of the main driving gear unit, an auxiliary power shaft disposed at right angles to the driving shaft and carrying a bevel gear adapted to mesh with the bevel portion of one of the gears of the main driving unit.

1,396,527. WATER-REPELLENT COMPOSITION. George A. Richter, Wallace B. Van Arsdel, and Donald H. White, Berlin, N. H., assignors to Brown Company, Berlin, N. H., a Corporation of Maine. Original application filed Sept. 13, 1919, Serial No. 323,624. Divided and this application filed May 26, 1920. Serial No. 384,406. 2 Claims. (Cl. 134—15.)

2. A water-repellent composition of matter, consisting of about 25–60 parts of gilsonite, about 25–70 parts of paraffin, and about 5–10 parts of petroleum oil, all blended with heat, and having a melting point of 120°–150° F.

1,396,528. ARCH-SUPPORT. Robert C. Ross, Wilmette, Ill., assignor of one-half to Samuel Silverman, Chicago, Ill. Filed Jan. 28, 1921. Serial No. 440,584. 7 Claims. (Cl. 36—71.)



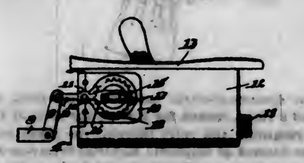
1. An arch support comprising a supporting plate and a metatarsal arch-supporting member reversibly mounted on said plate.

1,396,529. PUMP FOR PRIMING, &c. Walter J. Rudolph, Chicago, Ill., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 19, 1919. Serial No. 346,041. 16 Claims. (Cl. 103—75.)



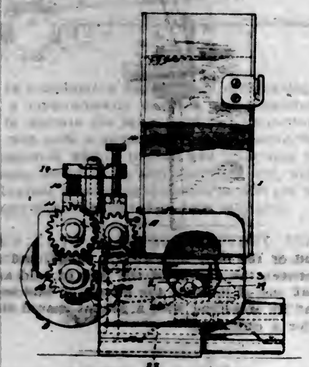
1. In a pump, the combination with a barrel, of a closure for one end of said barrel having a conical valve seat therein, inlet and outlet ports extending through said closure and one terminating in said valve seat, a piston in said barrel and a conical valve carried by the piston and having an annular channel therein registering with the port terminating in the valve seat when the valve is seated.

1,396,530. HAIR-CLIPPER. Herman B. Sande and Otto Moessing, Chicago, Ill., assignors to Moore Electric Corporation, Chicago, Ill. Filed Jan. 18, 1919. Serial No. 271,805. 1 Claim. (Cl. 30—1.)



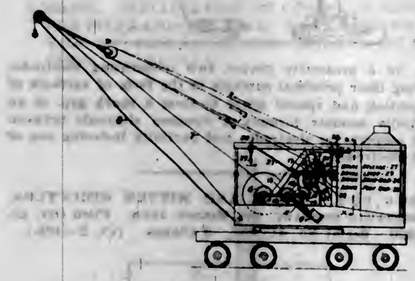
A hair clipper comprising a cutting head; a reciprocating cutting blade on said head; a rocker arm operating said blade; a handle for said cutting head extending at an angle thereto; a casing on said handle; a worm wheel in said casing; a worm in said casing meshing with said worm wheel; a socket for receiving a flexible shaft to drive said worm; a lever mounted on said casing and operatively connected with said worm wheel, there being an opening in the inner end of said casing through which said lever passes, said opening being provided with a central cylindrical portion and divergent sides leading from the forward and rear sides of said cylindrical portion; a lever fulcrumed in said opening and provided with a hub fitting the cylindrical portion thereof and said lever oscillating between said divergent sides; and a link connecting said lever with said rocker arm, substantially as described.

1,396,531. COUPON OR CARD FEEDING DEVICE. Pleasants C. Gentsch, Salem, Va., assignor to Comas Cigarette Machine Company, Salem, Va., a Corporation of Virginia. Filed Aug. 22, 1919. Serial No. 319,173. 22 Claims. (Cl. 271—44.)



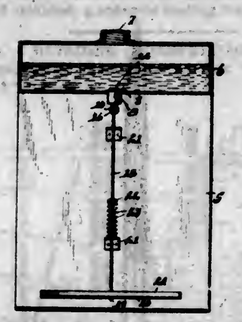
2. In a device of the character described, the combination of a pair of delivery rolls, and a rocking head having a needle projecting therefrom and an offset portion adapted to move a card to said rolls, said rocking head and its needle moving forward with the card, then dropping away from the card before moving to its initial feeding position, and then moving into contact with the next card to feed the same.

1,396,532. MEANS FOR BRAKING-CRANES. Harry E. Scott, Cleveland, Ohio, assignor to The Brown Hoisting Machinery Company, Cleveland, Ohio, a Corporation. Filed June 12, 1920. Serial No. 388,583. 6 Claims. (Cl. 212—59.)



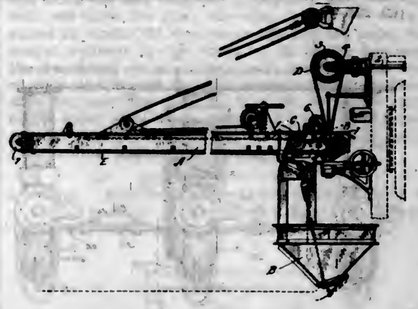
1. The combination, in braking mechanisms for hoisting machines, of a winding drum loosely mounted on its shaft, a load-sustaining pulley-system, mechanism for braking the drum against unwinding movement when said mechanism is operatively subjected to the tensile force of the load sustained by said system, and means for applying force in opposition to said tensile force, said system being connectible to the load to be sustained and having one end of its rope member fastened to the drum, and the other end fastened to said braking mechanism in suitable manner to operatively subject the same to said tensile force, substantially as shown and described.

1,396,533. AUTOMATIC FOWL-SPRAY. Bruce A. Shaw, Oak Park, Ill. Filed Sept. 12, 1919. Serial No. 323,583. 3 Claims. (Cl. 119—159.)



1. A device of the class described comprising, a tank; a valve mounted on said tank; a depending supporting member connected with said valve, adapted, upon downward movement, to open said valve and emit a certain amount of fluid from said tank; and a pan mounted on said supporting member, substantially as described.

1,396,534. DRIVING MEANS FOR CONCRETE-DISTRIBUTERS. Oscar Sebeck, Milwaukee, Wis., assignor to Koehring Machine Company, Milwaukee, Wis., a Corporation. Filed Sept. 2, 1920. Serial No. 407,764. 6 Claims. (Cl. 104—92.)

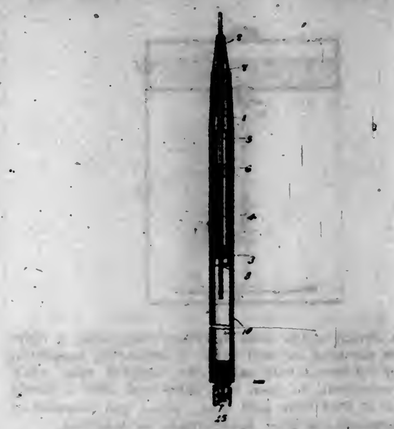


1. Cable driving means of the class described comprising, in combination, a drum, a cable, driven means attached to the cable, the ends of the cable being attached to said drum and wound thereabout in opposite directions toward the center of the drum, and operating means for the drum, the winding surface of the drum being such that as one end of the cable pays off of such surface in unwinding, the other end winds upon and occupies said surface previously occupied by the unwinding end.

1,396,535. LEAD-PENCIL. Elmer S. Shimer, Milton, Pa. Filed Mar. 2, 1921. Serial No. 449,127. 4 Claims. (Cl. 120—18.)

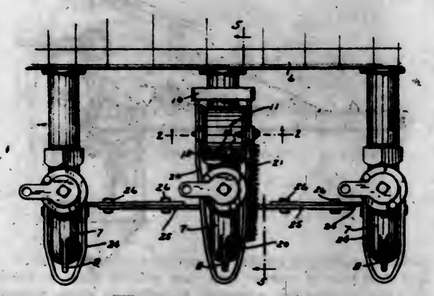
3. A pencil including an inner and outer tube rotatably connected together, one having an internal projecting key and the other provided with internal screw threads at one end of slightly less diameter than its adjacent bore, a pin having a longitudinally grooved, threaded end, adapted to turn in these threads, the groove constructed and adapted to receive the key whereby the turning of the tubes with respect to each other causes an

endwise feed of the pin, and a body or handle in the bore of which the outer tube is frictionally held, one end of the tube protruding from one end of the body or handle



and one end of the inner tube protruding from the end of the outer tube, the said adjacent ends in the form of a general continuous taper.

1,396,536. AUTOMATIC TALLY FOR DISPENSING-FAUCETS. WILLIAM H. SHINDOLL, Arlington, S. D. Filed May 22, 1920. Serial No. 383,361. 3 Claims. (Cl. 235—94.)



1. The combination with a plurality of dispensing faucets each having a supporting lug, of a tally having a movable indicating member, a pawl and ratchet for imparting steps of movement to the indicating member, a lever for each faucet, means rigidly connecting the levers, a connection from one of the levers to the pawl, and yielding means normally holding the levers in position to be simultaneously depressed by the bail of a receptacle suspended from any one of the supporting lugs.

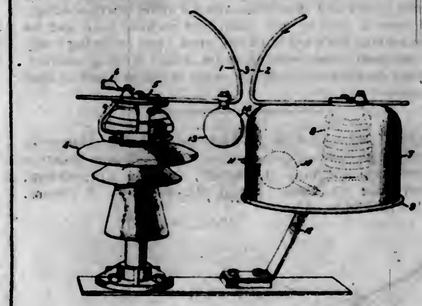
1,396,537. DENTAL AMALGAM OR ALLOY MIXER. BOHUSLAV SIML, Chicago, Ill. Filed July 23, 1921. Serial No. 487,051. 2 Claims. (Cl. 259—75.)

1. The combination with a cylindrical frame having a radially extended arm provided with a forked extension over-hanging the frame, said frame having a slot at the base or foot of said arm extended in the direction of the prongs thereof, of a cylindrical body having a diagonally disposed groove in its periphery and rotatably mounted in the frame and provided at one of its ends with an external annular flange to coact with the adjacent end of the frame, a centrally orifaced filling located in the body for rotation therewith, a circular plate having a central opening surrounding a portion of said filling and secured



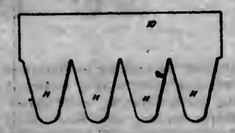
to that end of the body opposite its flange, and a lever pivoted between the prongs of the fork of said arm and engaging at one of its ends the groove of said body and provided at its other end with a pair of spaced clamping members for a container.

1,396,538. PROTECTIVE DEVICE. BEVERLY L. STEMMONS, Charlotte, N. C., assignor to General Electric Company, a Corporation of New York. Filed May 20, 1918, Serial No. 235,447. Renewed July 20, 1921. Serial No. 486,186. 8 Claims. (Cl. 175—30.)



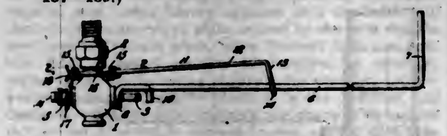
1. In a protective device, two coöperating electrodes having their proximal surfaces in the form of surfaces of revolution and spaced apart to form a spark gap, of an umbrella member forming a common electrode between said coöperating electrodes and partially inclosing one of said electrodes.

1,396,539. GLOVE AND MITTEN STRUCTURE. BENJAMIN STEWART, Des Moines, Iowa. Filed Oct. 23, 1920. Serial No. 418,957. 3 Claims. (Cl. 2—102.)



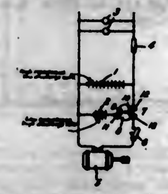
1. A glove and mitten structure, comprising a wrist band structure, comprising an endless band, composed of two members, each having a plurality of half thumb receiving members connected therewith, the thumb receiving members of the respective wrist band members being sewed together at their edges, each wrist band member having its ends sewed together.

1,396,540. DRAIN-COCK-OPERATING DEVICE. WILLIAM HENRY STIGLITZ, Louisville, Ky. Filed Jan. 19, 1921. Serial No. 438,424. 2 Claims. (Cl. 137—139.)



1. In combination with a drain cock having a rotatable plug, a longitudinally disposed rod connected with said plug to operate the same, said rod projecting outwardly from said cock, a supporting bracket embracing said cock and mounted wholly thereon and projecting therefrom in the same direction as said operating rod, and means on said bracket connecting the same to said rod and allowing free movement of the rod to turn said plug.

1,396,541. ELECTRIC-BATTERY SYSTEM AND METHOD OF OPERATING THE SAME. ELIHU THOMSON, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Aug. 27, 1919. Serial No. 320,274. 4 Claims. (Cl. 290—31.)



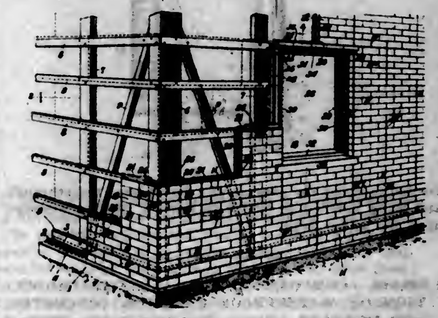
1. In combination in a motor starting system for combustion engines, a storage battery of relatively low capacity and low internal resistance adapted to deliver current at a high discharge rate, a second storage battery of relatively high capacity high internal resistance adapted to deliver current at a relatively low discharge rate, and switch means provided with contacts adapted to interconnect said batteries for charging the first mentioned from the last mentioned battery and for connecting said batteries in parallel to supply current to the starting motor.

1,396,542. INSTALLATION OF CONCRETE FOOTINGS FOR PILES AND THE LIKE. ROBERT B. TUFTS, Kirkwood, Ga. Filed Apr. 13, 1920. Serial No. 373,495. 3 Claims. (Cl. 61—57.)



1. The herein described method of establishing a concrete footing for a pile, consisting in forcing a driving member downwardly beyond the lower end of a tubular driven pile and thereby forming a space below the pile, and forcing semi-liquid concrete through said driven pile and into such space under sufficient pressure to enlarge said space and establish a concrete footing for the pile.

1,396,543. BUILDING CONSTRUCTION. ISHAM P. WALKER, Tyler, Tex. Filed Nov. 19, 1918. Serial No. 263,148. 3 Claims. (Cl. 72—19.)



1. In building construction, a foundation having a rib or tongue on its upper surface extending about the foundation, said rib or tongue being right triangular in cross section and having a vertical wall facing inwardly with respect to the building and a slanting wall facing outwardly, and a series of slabs laid in courses, each slab having means for interlocking with adjacent slabs on all edges, said means comprising a groove on its lower edge and along one side edge, and a tongue or rib on its upper edge and along the other side edge, the grooves being designed to receive the tongues or ribs and the latter being shaped similarly to the tongue or rib on the foundation, the foundation rib interlocking with the lowermost course of slabs and all the ribs and grooves extending intermediate the outer and inner faces of the slabs, the tongues on the upper edges of the slabs having their vertical walls facing inwardly while the tongues on the side edges have their vertical walls facing outwardly.

1,396,544. PHONOGRAPH-RECORD-CLEANING DEVICE. LEONARD A. WELLINGTON, Keene, N. H. Filed Oct. 27, 1917. Serial No. 198,816. 9 Claims. (Cl. 274—1.)

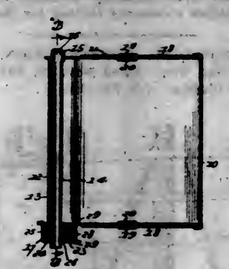


9. The combination with a suitable support, of an arm adapted to rest horizontally over a phonographic record, and a record cleaning device carried by said arm and adapted to rest with frictional contact upon the record, said cleaning device being resettable upon the arm to present a new cleaning surface to the record.

1,396,545. MATCH-BOX. JESSE B. YOUNG, Rush, Ky. Filed Nov. 29, 1920. Serial No. 427,112. 4 Claims. (Cl. 206—22.)

1. A match box having a storage compartment provided with a communicating tubular seat, and a dispens-

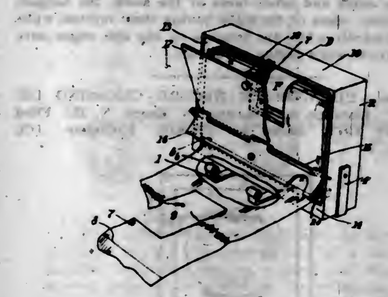
ing or delivery tube revolubly mounted in said seat and provided with a longitudinal slot for communication with the storage compartment, one end of said tube being contracted to resist the passage of a match head therethrough and being notched or slitted to exert a yielding pressure upon the match head.



1,396,546. COMPOSITION FOR AND THE PRODUCTION OF WATERPROOF CEMENTS, CONCRETES, AND MORTARS. HARRY CRAIGHILL BADDER, Bedford Park, London, England, assignor to Spencer Freeman Burrows and Henry Lewis Phipps Allender, London, England. Filed July 9, 1919. Serial No. 309,730. 7 Claims. (Cl. 106—25.)

1. A mixture for waterproofing concrete comprising a basic aluminum silicate, and a soluble silicate of a metal, and an aluminum silicate and an alkaline earth metal chlorid.

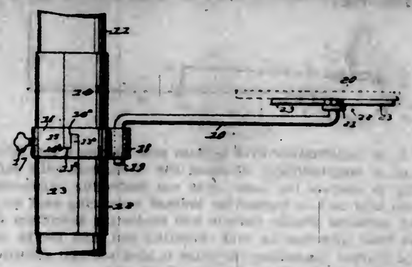
1,396,547. SANITARY APPLIANCE FOR CLOSET-SEATS. NELLIE N. BARNDEES, St. Paul, Minn. Filed Apr. 25, 1921. Serial No. 464,400. 1 Claim. (Cl. 4—18.)



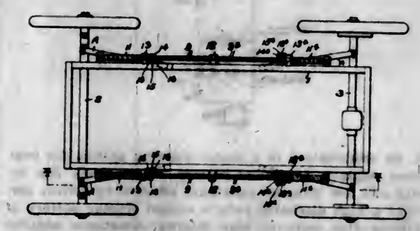
In a closet bowl attachment, the combination with a closet bowl, a seat, and a hinge connection connecting the seat to the bowl, said hinge connection including spaced upwardly extending supports on the bowl, and a pintle detachably supported on said supports, of a paper holding container to the rear of said pintle having a discharge opening adjacently above the latter, and facing said seat, and a support for the container resting on the bowl and extending to and detachably surrounding said pintle.

1,396,548. BRACKET-SUPPORT. GEORGE S. BARTLETT, Buffalo, Wyo. Filed Nov. 13, 1919. Serial No. 337,777. 1 Claim. (Cl. 248—20.)

A device for the purpose described having a clamp for engagement with a post or upright and provided with a set screw for securing the clamp in position thereon, an arm pivotally mounted for swinging movement upon the clamp and provided at its free end with a seat, and a spider having a hub revolubly mounted in said seat and provided with a socket for the reception of a depending stud on a tray or similar object resting thereon.

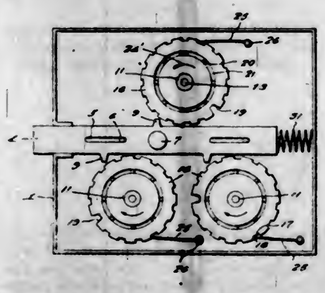


1,396,549. VEHICLE-SPRING. WILLIAM M. BEATTY, Pittsburgh, Pa. Filed Apr. 12, 1920. Serial No. 373,028. 4 Claims. (Cl. 267—25.)



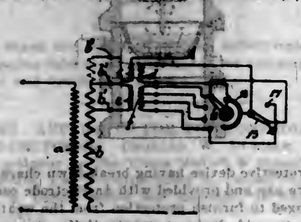
3. In a vehicle, the combination of front and rear axles, a body, yielding body-supporting connections between the front and rear of the body and said axles, casings rotatably mounted one on each end of said body on axles extending longitudinally of the body, a plurality of resilient rods attached at their ends to said casings, and oppositely-acting connections between said axles and casings for rotating the latter as a consequence of a relative movement between an axle and an end of said body.

1,396,550. LOCK. MILTON S. BEAVER, Reading, Pa. Filed Oct. 9, 1920. Serial No. 415,744. 2 Claims. (Cl. 70—53.)



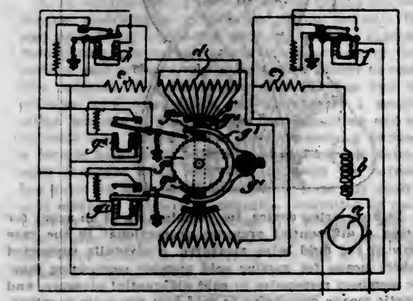
1. In a permutation lock, a spring influenced slidable bolt, guide means therefor, operating means therefor, lugs on the edges thereof, peripherally notched tumblers revolubly mounted on the casing, said bolt having projecting through the casing, means on the shafts operative to bind the shafts against the inner face of the casing, disks freely mounted on the shafts, said disks having indicating characters thereon, said casing having openings in a line with said characters, an apertured plate carried by the bolt and the apertures of the said plate, when the bolt is in one position being arranged opposite the referred to openings, spring means in the casing engaging the tumblers for preventing the turning of the tumblers in one direction, and designed, when the said tumblers are partially influenced in a second direction to exert a tension against said tumblers to turn the same and the disks connected therewith.

1,396,551. ELECTRICAL TRANSFORMER FOR REGULATING OR VARYING THE VOLTAGE OF THE CURRENT SUPPLIED THEREFROM. FREDERICK EDMUND BERRY, Hayes, England. Filed Oct. 31, 1918. Serial No. 260,531. 6 Claims. (Cl. 171—119.)



1. In an alternating current electrical distribution system, a main transformer winding, a remote supplementary transformer arrangement comprising two primary windings connected in series, leads connecting a portion of the main transformer winding to the said primary windings, secondary windings inductively associated with the latter windings and switching means for separately varying the inductive relation of each secondary winding to its corresponding primary winding.

1,396,552. VOLTAGE-CONTROLLING MECHANISM. PIERRE BOSSU, Neuilly-sur-Seine, France, assignor to Societe Anonyme Des Etablissements L. Bleriot, Paris, France. Filed Sept. 28, 1918. Serial No. 256,102. 6 Claims. (Cl. 171—239.)



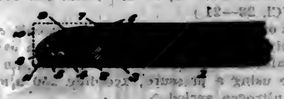
1. A controlling mechanism for maintaining constant voltage in an electric circuit comprising in combination, a slow-acting regulator operative to introduce a variable controlling resistance progressively into such circuit, and quick-acting regulators coöperative with said slow-acting regulator and operative only during the time necessary for the slow-acting regulator to exercise its control.

1,396,553. MAP-HOLDER. JOHN J. BOVI, Red Wing, Minn. Filed Dec. 22, 1921. Serial No. 444,581. 2 Claims. (Cl. 40—36.)



1. In a device of the class described, a frame composed of a flat body with two cylindrical magazines, one at each of two opposite ends thereof, a roller mounted within each magazine and adapted to engage opposite ends of a map, means for rotating the rollers to wind the map upon them; said flat frame having a space exposing a portion of the map between the two magazines; said frame comprising a back section and a front section hinged together at one of the magazines and partly overlapping each other, one of said magazines having its overlapping portions pivotally connected in concentric position to the roller therein to form the said hinge for the two frame sections.

1,396,554. ROUND RIM-BOUND TOP FOR TABLES. CHARLES O. BUZZEE, Portsmouth, Ohio. Filed Apr. 16, 1920. Serial No. 374,351. 1 Claim. (Cl. 45—81.)



A rim bound top including a core, the curved edge of which is molded into the form of a diagonally-disposed circumferential fluting or corrugation, with the extreme ends extending approximately at right-angles to the adjacent surface of the core and having a circumferential groove adjacent to one of said ends, and a rim molded on its inner periphery to correspond with and fit the molded outer edge of the core, said rim adapted to be fashioned from the point where it joins the outer surface of the core into the external shape desired, thus leaving the upper transversely-extending edge of the core finally exposed as a part of the permanent outer edge of a portion of the top.

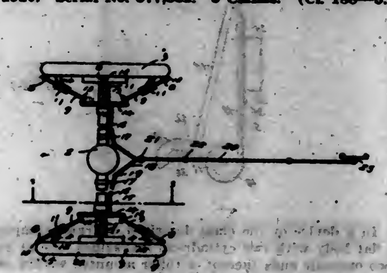
1,396,555. SHUTTLE-EYE. ALBERT J. BROUILLETTE, Woonsocket, R. I., assignor to Shambow Shuttle Company, Woonsocket, R. I. Filed Feb. 12, 1921. Serial No. 444,324. 6 Claims. (Cl. 139—46.)



2. In a shuttle, a porcelain eye having thread receiving means and having an end abutted against the wood of the shuttle, a projection formed on the eye and receivable in a recess provided therefor in the shuttle to hold the eye

against turning, a fiber washer engaged with the opposite end of the eye, and a screw plug threaded directly into the shuttle to engage and hold the washer impinged and against movement in its said relation to the eye.

1,396,556. AUTOMOBILE-WHEEL NON-SKID DEVICE. AUGUST CARLSON, Dell Rapids, S. D. Filed Apr. 28, 1920. Serial No. 377,322. 5 Claims. (Cl. 188—5.)

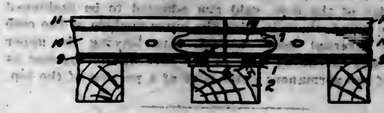


1. A device of the character set forth including an axle housing and a wheel, a plurality of brackets carried by said wheel, non-skid elements threaded to said brackets, and manually controlled means adapted to engage said non-skid elements to cause them to extend themselves by the rotation of the wheel.

1,396,557. PROCESS OF PRODUCING AMMONIA. IVAR WALFRID CARLSSON, Lidingö-Brevik, Sweden, assignor of seven-tenths to Helge Mattias Bäckström, Djursholm, Sweden, and Gustaf Adolf Kyhlberger, Stockholm, Sweden. Filed Feb. 23, 1918. Serial No. 218,685. 1 Claim. (Cl. 23—21.)

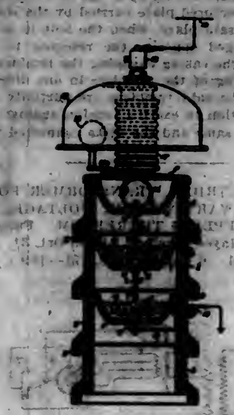
A process of synthetic production of ammonia consisting in alternately passing nitrogen and hydrogen over a substance containing at least one metal forming an unstable nitrid while using a pressure exceeding 250 atmospheres during the nitrogen period.

1,396,558. RAIL-JOINT. MERIT L. COCHRAN and MARION E. WOOD, Kansas City, Kans. Filed Nov. 6, 1920. Serial No. 422,421. 1 Claim. (Cl. 238—205.)



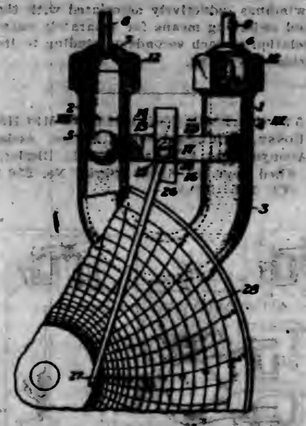
In a rail joint, a rail chair having a flat base adapted to support the bases of two adjoining rails and having respectively adjacent to opposite ends spike openings, and having intermediate of said openings two flanges adapted to embrace the upper sides of the bases of the rails and the under sides of the balls of the rails at opposite sides respectively of and spaced apart from the webs of the rails, the upper ends of the flanges being outwardly turned and bearing against the balls of the rails, and a U-bolt having threaded arms adapted to extend through said flanges and said webs and provided respectively with nuts adapted to bear against the outer side of one of said flanges, the longitudinal portion of the U-bolt being adapted to bear against the outer side of the other flange, whereby the flanges may exert a spring clamping action, substantially as set forth.

1,396,559. PROTECTIVE DEVICE. BLAKE B. F. CRAWFORD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 10, 1918. Serial No. 211,112. 16 Claims. (Cl. 175—36.)



1. A protective device having break-down characteristics of a sphere gap and provided with an electrode constructed and arranged to furnish protection from the weather so as to insure to said device a substantially constant break-down voltage irrespective of weather conditions.

1,396,560. METERING DEVICE. THOMAS A. DICKINSON, Youngstown, Ohio. Filed Nov. 22, 1920. Serial No. 425,615. 7 Claims. (Cl. 284—19.)

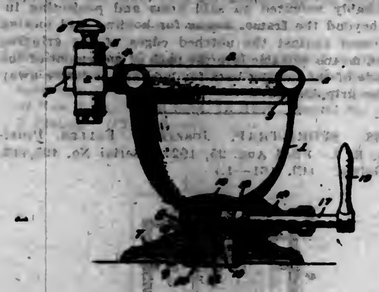


1. In a metering device, the combination of an agent for creating a differential pressure proportional to the rate of flow of the fluid being measured, a pivotally supported member, means for moving said member comprising magnetic members responsive to said differential pressure, and magnetic means responsive to said first magnetic members, substantially as described.

1,396,561. SHAVING-CUP. SYLVESTER DOREY, Gloversville, N. Y. Filed Mar. 21, 1921. Serial No. 454,655. 2 Claims. (Cl. 65—126.)

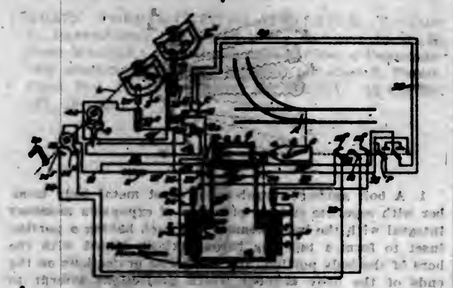
1. In a shaving cup of the class described, the combination of a bowl having a discharge opening in the bottom

thereof, a vertically movable valve for closing said opening, said valve having a shank depending from the bottom thereof, a rotary head mounted in a plane at right angles



to said shank and equipped with an eccentrically mounted pin engaging said shank, and means for rotating said head to raise and lower said valve.

1,396,562. APPARATUS FOR THE CONTROL OF RAILWAY-SWITCHES. CHARLES W. DUNHAM, Fairmont, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed July 6, 1920. Serial No. 395,662. 15 Claims. (Cl. 246—141.)



3. In combination, a railway switch having normal and reverse positions, a cylinder, a piston movable therein and operatively connected with the switch, a source of fluid pressure, a normal and a reverse valve for the two ends of said cylinder respectively each biased to one position wherein it connects the corresponding end of the cylinder with atmosphere and movable to a second position wherein it connects the corresponding end of the cylinder with said source of fluid pressure, a normal and a reverse magnet for said normal and reverse valves and each arranged when energized to move the corresponding valve to said second position, a lever for controlling said magnets, indication apparatus controlled by the positions of said piston for locking and releasing said lever, and means for preventing said apparatus from releasing said lever unless the pressure in each end of said cylinder is below a given value.

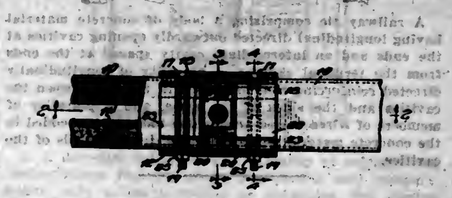
1,396,563. ELECTRICAL APPARATUS. GIUSEPPE FACCIOLI, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Continuation in part of application Serial No. 60,868, filed Nov. 11, 1915. This application filed Oct. 11, 1916. Serial No. 124,968. 12 Claims. (Cl. 175—356.)

8. A winding for electrical apparatus having an axis which is substantially a straight line, said winding being composed of sections spaced apart along said axis; the spacing of said winding being enlarged at a point on the axis where the resultant magnetomotive force in a general



direction perpendicular to said axis is substantially zero, and independent means for rigidly supporting said winding inserted in said enlarged space.

1,396,564. TROLLEY-TRACK HANGER. ERNEST PECHNER and GERRIT VAN DUYNHOVEN, Aurora, Ill., assignors to Auroa Door Hanger and Specialty Company, Aurora, Ill., a Corporation of Illinois. Filed Apr. 4, 1921. Serial No. 459,573. 5 Claims. (Cl. 104—106.)

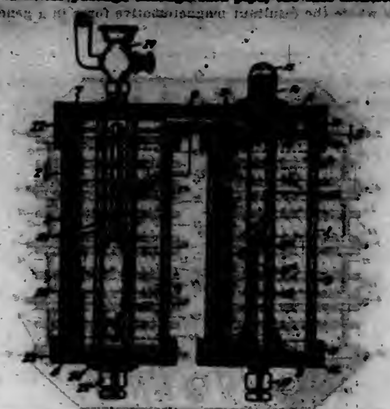


1. In a device of the class described, the combination with a supporting member having side walls and inturned flanges at the lower end thereof and a plurality of pairs of opposed holes on the upper portion of said sides, of a pair of track members having their adjacent ends abutting within the supporting member, a pair of complementary wedge shaped clamping members adapted to fit between the tops of the track members and the supporting member and having passages therethrough for screw bolts, screw bolts each adapted to be passed completely through one of said pair of opposed holes with its head engaging the end of the adjacent clamping member and with its threaded end extending through the opposite hole, and nuts coöperating with said threaded ends.

1,396,565. GASOLENE-TESTING DEVICE. WILLIAM FELL, Chicago, Ill., assignor to Visible Gasoline Filter Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 8, 1920. Serial No. 350,086. 3 Claims. (Cl. 265—45.)

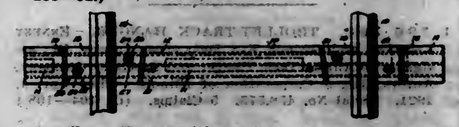
1. The combination with a supply pipe, of a combined liquid filtering and testing device comprising a pair of connected receptacles adapted to be introduced in said

supply pipe whereby the liquid circulates from one to the other in its passage through said pipe, the last mentioned



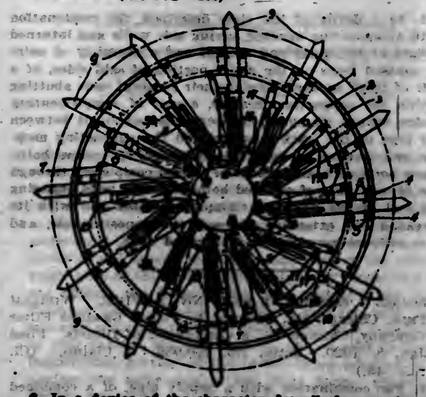
receptacle serving as a means for readily observing the character of the liquid.

1,396,563. RAILWAY-TIE. LOTHAR FINK, Oneonta, N. Y. Filed May 27, 1921. Serial No. 473,150. 1 Claim. (Cl. 238—92.)



A railway tie comprising a body of concrete material having longitudinal directed outwardly opening cavities at the ends and an intermediate cavity spaced at the ends from the terminal cavities, a plurality of longitudinally directed reinforcing rods embedded in the tie between the cavities and the sides of the same, and a plurality of members of wires looped around the rods and embedded in the concrete material between the confronting ends of the cavities.

1,396,567. ANTISKID DEVICE. CHARLES N. FRISCO, Pittsburgh, Pa. Filed Nov. 6, 1920. Serial No. 422,285. 6 Claims. (Cl. 301—47.)



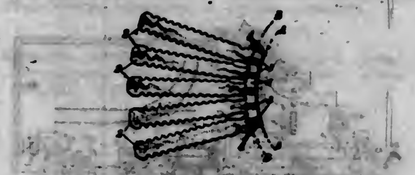
6. In a device of the character described, an outer annular frame, an inner frame carried by said outer frame, gripping bars slidably connected to said inner frame and slidable through said outer frame substantially radially thereof, each of said bars being provided in one edge with spaced notches, arms carried by said inner frame, locking bars rockably mounted on said arms and projecting inwardly beyond the frame, means for holding said locking bars pressed against the notched edges of the gripping bars, and means movable into the path of movement of the inner ends of the locking bars for moving the latter away from the gripping bars.

1,396,568. SPORE-TRAP. JOSEPH O. FULLER, Providence, R. I. Filed Aug. 26, 1921. Serial No. 495,443. 15 Claims. (Cl. 161—1.)



2. In a spore trap, a casing, a disk rotatably mounted in the casing, radially disposed guides on the disk, and means for rotating the disk.

1,396,569. BOLT-ANCHOR. CHARLES S. GERVAN, White Plains, N. Y., assignor to Lawrence S. Jackson, New York, N. Y. Filed July 14, 1916. Serial No. 109,209. 2 Claims. (Cl. 85—2.4.)



1. A bolt anchor comprising a sheet metal body member with separate ends, a plurality of expansion members integral with the body member and each having a portion inset to form a tapering throat axially aligned with the bore of the body portion, and tooth like projections on the ends of the body member which projections interfit to cause said ends to register.

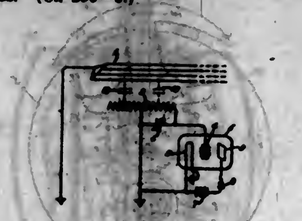
1,396,570. FLOATING JEWEL-BEARING. KENNETH B. GLENN, Ambridge, Pa. Filed Feb. 2, 1921. Serial No. 442,126. 4 Claims. (Cl. 58—140.)



1. A jewel bearing comprising a body, disks closing said body and one of said disks having an opening to receive

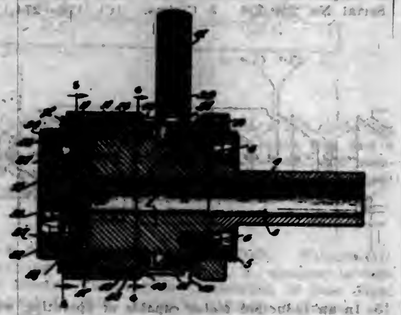
a spindle, an inner ring in said body, an outer ring in said body and supported by the disk, a spring attached to said ring for floating the inner ring within the body, and jewels carried by the inner ring for supporting the spindle.

1,396,571. RADIO RECEIVING SYSTEM. ALFRED N. GOLDSMITH and JULIUS WEINBERGER, New York, N. Y., assignors to General Electric Company, a Corporation of New York. Filed Sept. 13, 1918. Serial No. 253,938. 9 Claims. (Cl. 250—6.)



1. A radio receiving system comprising a receiving loop antenna having two halves with large mutual inductance between the halves and a ground connection to the junction point of the two halves so as to provide a substantially non-inductive path to ground for currents induced in the loop by capacitive induction.

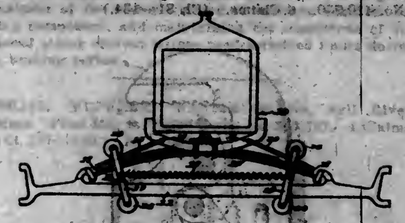
1,396,572. THREAD-CUTTING APPARATUS. WILLIAM C. HAFNEMEISTER, Cleveland, Ohio, assignor to G. H. Scott Machine Company, Cleveland, Ohio, a Copartnership consisting of George H. Scott and Carl S. Fetner. Filed Nov. 15, 1917. Serial No. 202,121. 11 Claims. (Cl. 10—95.)



1. In combination, a set of circular chasers peripherally notched to produce cutting lips, a sustaining device whereon said chasers are adapted to be arranged with their cutting lips spaced about an imaginary circle substantially concentric with the axis of the sustaining device, each chaser having a recess, a member projecting into the recess of each chaser and movably carried by the sustaining device, and a screw adjustable within the sustaining device to alter the position of said member.

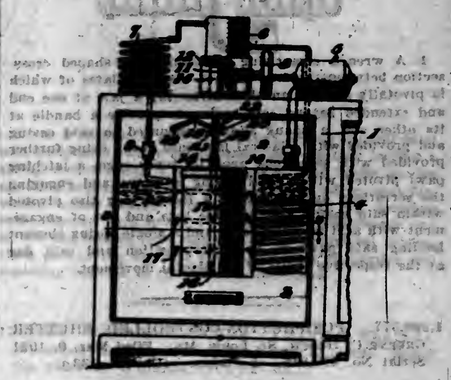
1,396,573. SHOCK-ABSORBER. ORVAL K. HARLEY, Jenks, Okla. Filed May 27, 1920. Serial No. 384,648. 3 Claims. (Cl. 267—22.)

1. A shock absorber for vehicles comprising transverse guide members located above the main spring and movable with the spring supported body member of the vehicle toward and from the plane of the axle, and a traveler



having retarding elements co-acting with said transverse guide members, said retarding elements being inwardly impelled on deflection of the main spring.

1,396,574. COMBINED REFRIGERATOR AND ICE-CREAM FREEZER. DELOS P. HEATH, Detroit, Mich. Filed Sept. 8, 1920. Serial No. 408,847. 2 Claims. (Cl. 62—116.)



1. A domestic refrigerator, a plurality of refrigerating compartments therein, means for cooling said compartments, said means including an expansion coil located in one of said compartments and so arranged as to provide a pocket, an ice cream freezer located in said pocket, and unitary means for operating the cooling means and the ice cream freezer.

1,396,575. PIN-TONGUE. JOHN H. HAMMESSEY, Providence, R. I. Filed May 5, 1921. Serial No. 466,896. 1 Claim. (Cl. 24—160.)



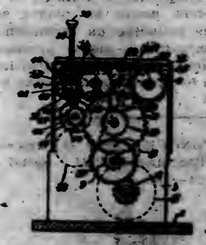
In a pin tongue pivot, a base member having a pair of ears formed with holes the outer ends of which are counter-sunk, so that the bottoms of the counter-sunk parts are spaced from the inner ends of the holes, a pin tongue having a head formed with a hole, and a hollow-wire rod in the hole having its ends extended beyond opposite sides of the head and received in the holes of the ears, the ends of said hollow-wire rod being expanded to provide hollow funnel-shaped parts which conformably engage the counter-sunk outer ends of the holes of the ears, and having their outer edges flush with the respective outer side faces of the ears.

1,396,576. QUICK-ADJUSTING WRENCH. GUSTAV HOFFMANN, Chicago, Ill. Filed Nov. 1, 1920. Serial No. 420,930. 6 Claims. (Cl. 81—124.)



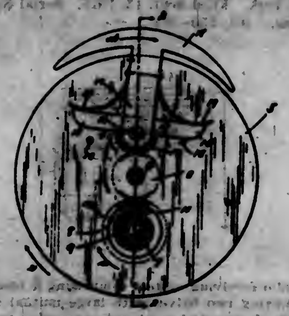
1. A wrench comprising a casing of U-shaped cross-section between the free ends of the side plates of which is pivotally secured an element having a jaw at one end and extended beyond said casing to provide a handle at its other end, a shank slidably mounted in said casing and provided with a lateral jaw, said shank being further provided with serrations upon its inner edge, a latching pawl pivoted within said casing adjacent and engaging the serrations on said shank, a locking dog also pivoted within said casing and movable into and out of engagement with said latching pawl, and a single spring element holding said pawl in operative position and said dog at the respective limits of its pivotal movement.

1,396,577. PUSH-BUTTON-CONTROLLED SHUTTER. GREENE C. HOSCH, St. Louis, Mo. Filed Mar. 9, 1921. Serial No. 450,846. 4 Claims. (Cl. 88—123.)



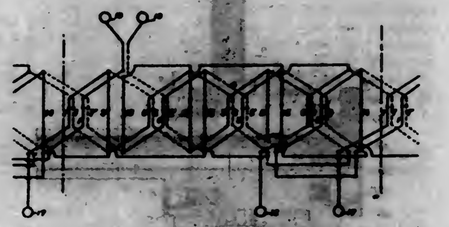
1. In a machine of the kind described, the combination of a length indicator having a scale with divisions for indicating aliquot fractions of the unit of measure, a driven pointer cooperating with the scale to indicate the length of goods measured, a movable indicating chart driven simultaneously with the pointer and bearing numbers for indicating computed figures corresponding to the length indicated by the length indicator, a movable shutter for normally screening the resulting point to prevent the computed figures from being read, a hand actuated part connected to the shutter for opening the same, a movable stop for normally preventing the actuation of the hand actuated part, and means for driving the same in synchrony with the pointer, said movable stop having means cooperating with the hand actuated part to permit the actuation of the same only when the pointer coincides with one of the said fractional divisions on the scale.

1,396,578. MECHANICAL DEVICE. JOHN ISELS, Oakland, Calif. Filed Apr. 4, 1921. Serial No. 458,128. 2 Claims. (Cl. 74—30.)



1. A mechanical device of the character described comprising, a frame, a shaft journaled on the frame, a fly-wheel rigidly mounted upon the shaft, a spring driven gear carried by the fly-wheel, and directing lever carried by the fly-wheel, and a geared connection between said first named gear and the lever.

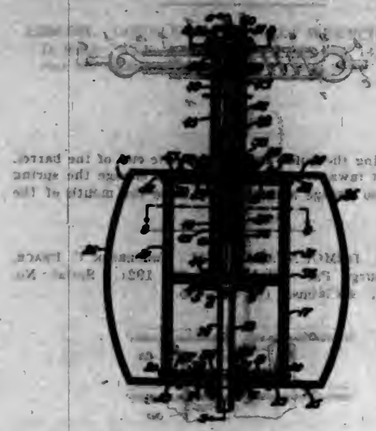
1,396,579. INDUCTION-MOTOR. TATSUICHIRO ISONO, Tokyo, Japan, assignor to General Electric Company, a Corporation of New York. Filed May 24, 1919. Serial No. 299,556. 5 Claims. (Cl. 172—274.)



5. In an induction motor capable of operating with a field of either of two numbers of poles, a secondary winding adapted for use with either pole numbers, comprising a wound portion responsive to the lower number of poles, and connections between equi-potential points of said winding forming active conductors, whereby said winding operates as a short circuited secondary responsive to the higher number of poles.

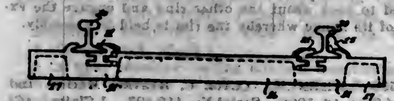
1,396,580. WAVE-OPERATED DEVICE. PATRICK J. KILCULLEN, Philadelphia, Pa. Filed Apr. 13, 1920. Serial No. 373,471. 7 Claims. (Cl. 230—32.)

1. A device of the character described including means adapted to float in a body of the water; a conduit; means operative due to the wave action of the water on said floating means to pump a fluid through said conduit; and means including a screw thread connection operative upon movement of the floating means beyond predetermined limits to effect a gradual relative change in position between said first and second means to compen-



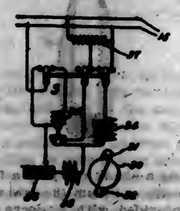
sate for the rise and fall of the tide; substantially as described.

1,396,581. TIE AND RAIL FASTENER. JOHN O. KLEIN, Alliance, Ohio. Filed Dec. 31, 1920. Serial No. 434,209. 11 Claims. (Cl. 238—264.)



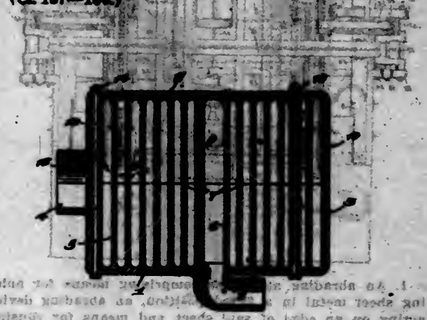
1. In a device of the class described, a rail tie having an obliquely extending channel in its upper face and a rail engaging member occupying such channel, said member having a face extending under the rail and adapted to form a seat for the lower surface thereof.

1,396,582. REPULSION-MOTOR. WILLEM C. KOSTHALS-ALTES, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 13, 1918. Serial No. 216,949. 8 Claims. (Cl. 172—276.)



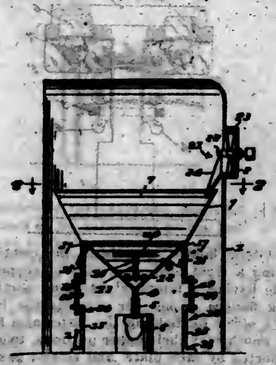
1. The method of dynamically braking a repulsion motor which consists in connecting the exciting component of the stator winding across the source of electrical supply, simultaneously reversing the polarity and connecting the rotatable of the stator winding in multiple with the exciting component, and maintaining the magnitude of the induced stator current within predetermined limits during the braking period.

1,396,583. MUFFLER. WILLIAM KRAUTH, Fall River, Mass. Filed May 9, 1920. Serial No. 380,297. 4 Claims. (Cl. 137—104.)



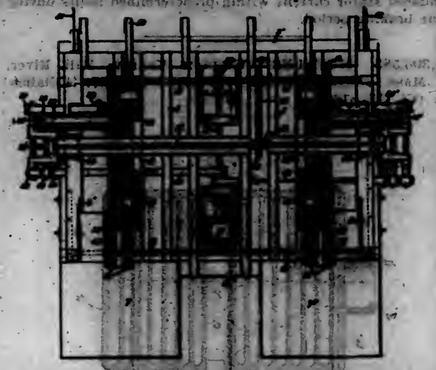
2. In a muffler, a pair of castings having central inlet and peripheral outlet connections, each casting having a spiral wall forming a spiral passage, said walls having abutting and nesting concave and convex edges, and fastening means passed through the castings for securing same together said spiral walls being each continuous and at one end leading from one side of the peripheral connections and at the opposite end terminating in partial surrounding relation to the center connections.

1,396,584. VARNISH-CATCHER. VALENTINE KUKULKA, Muskegon Heights, Mich. Filed Dec. 17, 1920. Serial No. 431,411. 5 Claims. (Cl. 91—60.)



1. The combination with a varnishing booth, of a funnel disposed within the latter and provided with a discharge mouth, and a turn-table for stock to be varnished, the turn-table being disposed within the funnel, whereby excess varnish is directed to the discharge mouth for gathering at the latter.

1,396,585. ABRADING DEVICE. Wesley E. Lamb, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Mar. 21, 1919. Serial No. 284,071. 10 Claims. (Cl. 51—140.)

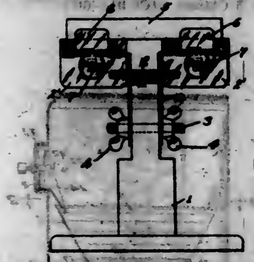


1. An abrading apparatus comprising means for holding sheet metal in a fixed position, an abrading device acting on an edge of said sheet and means for causing relative traversing motion between said sheet and said abrading device.

1,396,586. GAS-PURIFYING COMPOSITION AND METHOD OF MANUFACTURING SAME. Roscoe P. Mabe, Wilkinsburg, Pa., assignor to Mine Safety Appliances Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 9, 1920. Serial No. 388,514. 6 Claims. (Cl. 183—113.)

1. A gas-purifying composition, comprising pumice intimately combined with an alkali.

1,396,587. RAZOR-HONE HOLDER. Frank J. Mirson, San Francisco, Calif. Filed Mar. 12, 1919. Serial No. 282,157. 1 Claim. (Cl. 51—211.)



A whetstone holder comprising the combination of a base having a rigid post, of a pair of supporting plates, each plate having a laterally extending portion with two depending flanges, a bolt for securing the two plates to the post, a screw for holding the plates at a fixed distance from one another at their upper portions, two clamp members supported by each plate, and screws passing through the depending flanges for holding the clamp members in place and for drawing them together upon an object.

1,396,588. JEWELRY CATCH OR CLASP. Frederick W. Nietzel, Attleboro, Mass., assignor to M. S. Company, Attleboro, Mass. Filed May 5, 1921. Serial No. 467,118. 8 Claims. (Cl. 24—230.)

2. In a clasp, a barrel, a member in the barrel having a shank of partly semi and partly circular-cross section and having a loop on one end and a hook on the other, a guide spindle fitted over the shoulder part and shielding the loop, and a spring arranged over the other part of the shank



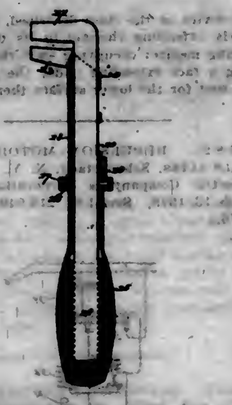
and abutting the guide and the opposite end of the barrel, being bent inwardly at both ends to engage the spring and to also engage and normally close the mouth of the hook.

1,396,589. DEMOUNTABLE RIM. Frederick C. Peace, Harrisburg, Pa. Filed Mar. 28, 1921. Serial No. 456,607. 4 Claims. (Cl. 301—35.)



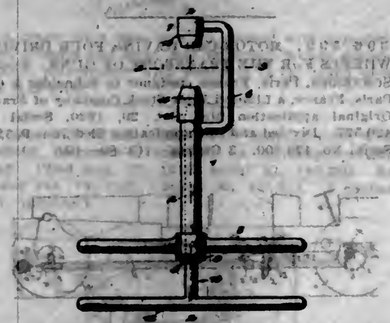
1. A demountable rim comprising, in combination, a rim divided in a plane passing through its tread portion, into two rings each having a side flange, one of said flanges being cut adjacent its base to provide a plurality of notches, a plurality of clamps each shaped to substantially the cross sectional contour of the rim, one end of each clamp in clamping engagement with one of said notches with its end portion substantially flush with the inner surface of the flange, the other end of each clamp adapted to hook about the other ring and engage the exterior of its flange whereby the rim is held in assembly.

1,396,590. WRENCH. Clyde C. Reaver, Marion, Ind. Filed Sept. 16, 1920. Serial No. 410,698. 1 Claim. (Cl. 81—162.)



A wrench having a shank carrying a fixed jaw and provided at the opposite end from the jaw with a feed screw, a movable jaw provided with a sleeve slidably mounted on the shank of the fixed jaw, a grip or handle interiorly threaded for engagement with the feed screw and having an integral groove adjacent its upper end slidably engaging a lip on the inner end of the sleeve, and a locking device consisting of an eccentric disk pivotally mounted on said sleeve and engageable with the upper end of the handle in the manner and for the purpose specified.

1,396,591. DOUBLE-GRIP SOCKET WRENCH. Warren D. Reier, Williamsville, N. Y. Filed Aug. 14, 1920. Serial No. 403,452. 1 Claim. (Cl. 81—121.)

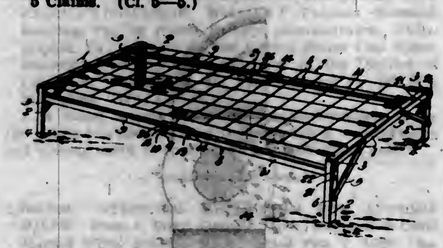


A double grip socket wrench comprising a member having a sleeve portion and a squarred portion, a socket member removably secured to said squarred portion, a rod slidably mounted in said sleeve portion and provided with a squarred end portion, a socket member removably secured to said squarred portion of said rod, and handles secured to the first said member and to said rod, as and for the purpose set forth.

1,396,592. LIGHT-SENSITIVE COLLODION COATING MIXTURE AND FILM. Julius Rheinberg, London, England. Filed Oct. 11, 1920. Serial No. 416,813. 7 Claims. (Cl. 96—7.)

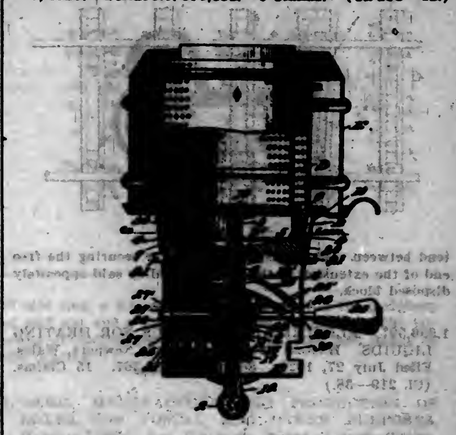
1. A light sensitive coating mixture comprising soluble gun cotton dissolved in methyl alcohol, and an organic ferric salt.

1,396,593. FOLDING COT. Donald W. Richards, San Jose, Calif. Filed Feb. 18, 1921. Serial No. 446,011. 5 Claims. (Cl. 5—5.)



1. A folding cot comprising a spring fabric, end bars connected therewith, folding legs carried by said end bars and extending longitudinally of the end bars when folded, and side bars removably connected with said legs, each side bar having separable end sections having their inner end portions meeting in overlapping relation, one end section having end notches and a side notch, pins carried by the second end section and fitting into the notches of the first section, a latch carried by the first section and releasably engaging the pin fitting into the side notch to retain the sections connected, and a plate carried by the first section and engaging the second section to hold the sections against transverse movement.

1,396,594. BLUE-FLAME OIL-BURNER. Henry Ruppel, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed July 7, 1920. Serial No. 394,481. 9 Claims. (Cl. 158—42.)



1. In a burner of the type described, a vertically movable trough, an inwardly extending member at its bottom communicating with the trough, the said inward member having an elongated depending sleeve, an oil feeding pipe, a tube extending from the oil feeding pipe and fitting within the sleeve, the adjacent surfaces of the sleeve and tube being machine finished, for the purpose described.

1,396,595. SHOCK-ABSORBER FOR AUTOMOBILES. Filletus Sackett, Kansas City, Mo. Filed Dec. 31, 1920. Serial No. 434,229. 3 Claims. (Cl. 267—19.)



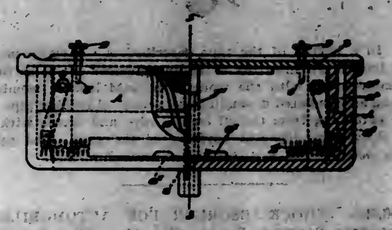
1. In a device of the character described, a leaf spring rigidly secured at its inner end to the body of a vehicle, a rocker lever having a curved segmental rim portion and being pivoted at one end to the outer end of said leaf springs, said rocker lever being fulcrumed on the running gear at a spaced distance from the end connected with the leaf spring, a second spring member having its inner end rigidly secured to the vehicle body, and a carriage carried by said second named spring member at its outer end and mounted on the curved rim of the rocker lever in position to resiliently resist movement of the latter about its fulcrum.

1,396,596. RAILROAD-TRACK CONSTRUCTION. Philip H. Sampson, Waukegan, Ill. Filed Jan. 5, 1921. Serial No. 435,190. 5 Claims. (Cl. 238—50.)

1. In a railroad track construction, a hollow tie, blocks disposed in said tie, a rail carried by each block, rail-holding plates carried by said blocks and so disposed that

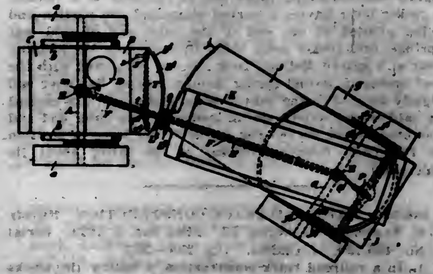
the mill rests on a portion of such plate, one of said plates having an extension, said extension being adapted to extend between said blocks, and means for securing the free end of the extension to the plate carried by said oppositely disposed block.

1,396,597. ELECTRICAL APPARATUS FOR HEATING LIQUIDS. HAROLD CRANSTON SANDERS, Newport, Wales. Filed July 27, 1920. Serial No. 393,267. 15 Claims. (Cl. 219—38.)



1. An electric liquid heater comprising in combination a container formed as an oblong basin, a trough in said container, a heating element arranged horizontally in said trough, a reservoir in said container bounded by the wall of the trough and the body of the container, a liquid inlet passing through the bottom of the container into the reservoir and discharging at the upper part of said reservoir, apertures in the lower part of the wall separating the trough and reservoir, and a liquid discharge outlet connected to said trough at a lower level than the discharge end of the liquid inlet within the reservoir.

1,396,598. MOTOR-CAR HAVING FOUR DRIVING-WHEELS FOR THE TRANSPORT OF GUNS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Oct. 29, 1920. Serial No. 420,527. 6 Claims. (Cl. 89—40.)



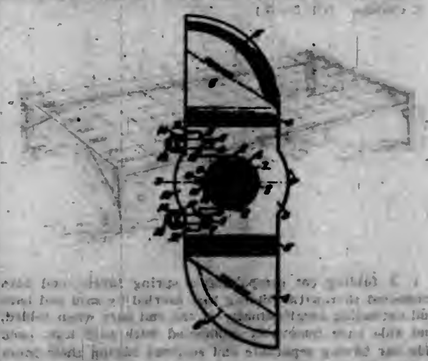
6. In a motor driven car for transporting guns, the combination of a motor driven forward wheeled truck and a rear wheeled trail, a hollow draw-bar having flexible connections with said truck and carriage, a drive shaft housed in said draw-bar and having drive connections with said motor and driving connections with said rear carriage wheels, said forward truck having a toothed sector the center of which is in a line perpendicular to its truck axle at the center of the latter, a trail supporting plate, anti-friction bearings between said plate and draw-bar, said plate having a curved toothed sector having its center in a line normal to the center of the gun carriage axle and gear connections between said toothed sectors carried by said draw-bar for transmitting steering movements of the front truck to the rear gun carriage.

1,396,599. MOTOR-CAR HAVING FOUR DRIVING-WHEELS FOR THE TRANSPORT OF GUNS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Original application filed Oct. 29, 1920, Serial No. 420,527. Divided and this application filed June 9, 1921. Serial No. 476,999. 8 Claims. (Cl. 89—40.)



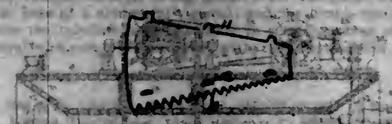
1. In a motor-driven car for transporting guns, the combination of a motor-driven forward wheeled truck having steering means and a rear wheeled trail gun carriage, a tubular draw-bar having flexible connections with said truck and carriage, a drive shaft housed in said draw-bar and having drive connections with said motor and driving connections with said rear carriage wheels, said forward truck having a toothed sector the center of which is in a line perpendicular to its truck axle at the center of the latter, a trail supporting plate, anti-friction bearings between said plate and draw-bar, said plate having a curved toothed sector having its center in a line normal to the center of the gun carriage axle and gear connections between said toothed sectors carried by said draw-bar for transmitting steering movements of the front truck to the rear gun carriage.

1,396,600. ROTARY CUTTER. ALFRED MERVYN SIMPSON, Honolulu, Hawaii. Filed June 27, 1921. Serial No. 480,311. 9 Claims. (Cl. 146—29.)



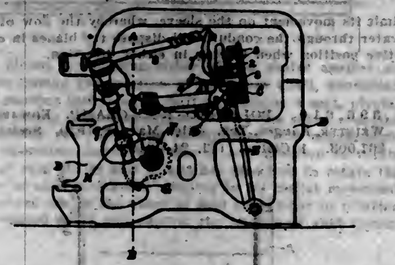
1. A rotary cutter comprising a shaft having a series of peripherally spaced longitudinal keyways therein, a series of separate knives mounted on said shaft, each knife including a thick hub section and thinner integral radial blades, and separate keys connecting the hubs only to the shaft, each key having a length greater than the thickness of the hub and serving to engage and space adjacent knives.

1,396,601. WIRE-TYPE CHARACTER. THADDEUS L. SMITH, of Boston, Mass. Filed Sept. 28, 1921. Serial No. 501,504. 4 Claims. (Cl. 24—142.)



2. A blank for a glass lamp tip, formed with oppositely located tongues and slots, and engaging devices adapted to extend transversely with reference to the blank when rolled into a tip.

1,396,602. SHUTTLE-ACTUATING MECHANISM FOR LOOMS. RICHARD HARTERLEY SMITH, Keighley, England. Filed Aug. 27, 1917. Serial No. 188,284. Renewed Feb. 14, 1921. Serial No. 445,014. 2 Claims. (Cl. 139—48.)



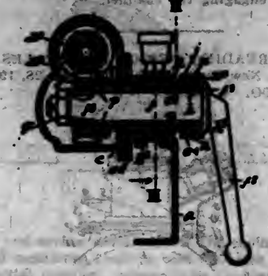
2. In shuttle actuating mechanism for a loom, a rotary shaft, a picking cam mounted on said shaft, a picking shaft arranged at an angle to the vertical plane in which the rotary shaft of the loom is situated and also at an angle to the vertical plane in which the end frame of said loom is situated, an arm extending from said picking shaft at approximately right angles thereto, a picker, a strap secured to said arm and to said picker, supports and guides for said picker and a shuttle box within which said picker operates.

1,396,603. PROCESS OF MAKING BRIQUETS AND PRODUCT THEREOF. WILLIAM P. TAGGART deceased, Reading, Pa., by Hattie Stearly, administratrix, Philadelphia, Pa., assignor to The United States Coal Manufacturing Company, a Corporation of the District of Columbia. Filed Mar. 10, 1920. Serial No. 364,612. 20 Claims. (Cl. 44—16.)

1. A baked briquet of combustible carbonaceous material which has disseminated therethrough a waterproofing and binding agent comprising an insoluble silicic acid.

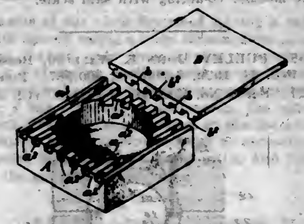
1,396,604. STEERING MECHANISM FOR AUTOMOBILES. FRED I. TOUR, Detroit, Mich., assignor to Child Harold Wills, Detroit, Mich. Filed Feb. 7, 1920. Serial No. 356,914. 7 Claims. (Cl. 74—79.)

7. In an apparatus of the kind described, a socket piece, an eccentric bearing in said socket piece adapted to be adjusted longitudinally therein, said bearing having an outwardly extending annular flange at the end of said socket piece, said flange being provided on its periphery with spaced, laterally extending grooves, said socket piece being provided with a longitudinally extending groove in its outer surface, a ring having an inwardly extending lug, said ring being adapted to pass over said socket piece and its lug to engage in the groove in said socket piece, said ring having a transverse slot in its periphery and a locking piece adapted to engage in the laterally extending slot in said ring and in said flange of the bearing, said outlet piece being screw threaded at its end, a nut having internal screw threads engaging the threads on said socket piece, said nut being located inside



of said ring, a laterally extending groove in the periphery of said nut and a lug piece adapted to engage in the laterally extending grooves in said nut, ring and flange of the bearing.

1,396,605. MANUFACTURE AND PRODUCTION OF BOXES FOR POSTAL AND OTHER PURPOSES. HAROLD UREDE and CHARLES HENRY JASPER GOOCH, London, England, assignors to Wood Postal Boxes Limited, Stratford, England, a Corporation of Great Britain. Filed Nov. 5, 1920. Serial No. 421,920. 1 Claim. (Cl. 217—5.)



A box with a body-part made in one piece in which is, or are, a recess, or recesses, for the article, or articles, to be contained therein, and a lid, or cover, also made in one piece, the said body-part and lid, or cover, being provided with grooves, or recesses, and ribs, or other projections, so arranged, shaped, and disposed, that the lid, or cover, when put in place on the body-part, can be pressed down into the closed position so that the ribs, or other projections, on the one part are engaged with the grooves, or recesses, in the other part; substantially as hereinbefore explained.

1,396,606. FUNNEL. CHARLES W. VINCENT, Ashley, Pa. Filed Feb. 14, 1921. Serial No. 444,737. 2 Claims. (Cl. 226—29.)



1. A funnel for filling radiators for internal combustion engines comprising a body part and a spout part,

spout having an exterior channel for receiving the upper end of the overflowing pipe of the radiator, a cap removably engaging the spout and adapted to engage the filling spout of the radiator, said cap having an ear thereon for engaging the channel.

1,396,607. READING DEVICE FOR SCALES. GUSTAV VON POST, New York, N. Y. Filed Aug. 28, 1920. Serial No. 406,600. 4 Claims. (Cl. 248—1.)



1. In a weighing device having a scale with unit prices marked thereon, and a member rotatable with respect to said scale, having series of products of weight and price, each series registrable with a unit price indication on said scale in combination with a reading slide movable along said scale having a reading opening therein of substantially the same width as a series and a price indicating division, a zero indicator carried by said slide and a parallax indicator coöperating with said zero indicator, whereby said slide and its indicators are eligible into reading position along said scale and across the series on said rotatable member co-acting with said scale.

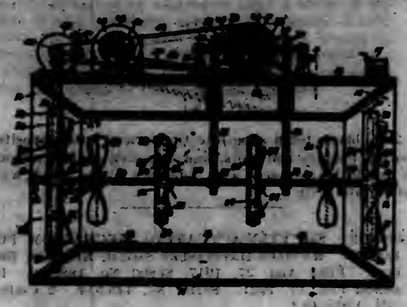
1,396,608. PULLEY. JOHN E. WALLING, Bessemer, Ala. Filed Feb. 24, 1920, Serial No. 360,587. Renewed Apr. 4, 1921. Serial No. 458,388. 1 Claim. (Cl. 64—18.)



A split pulley comprising a pair of complemental sections, each including a semi-circular rim section and a spoke having a semi-circular depression therein, a semi-circular bushing section seated in said depression, said bushing section having located at one end a tangentially disposed opening, and a shoulder within said opening and also having a tangentially disposed opening at the opposite end of the bushing section and a bolt extending through the openings in each bushing section and through a registering opening in one of the spokes.

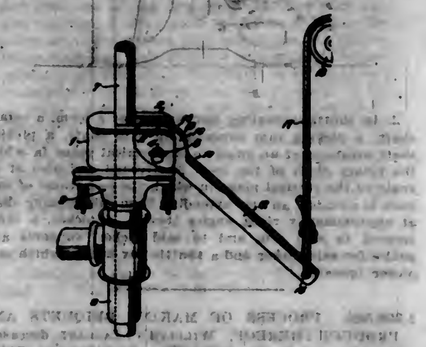
1,396,609. CURRENT OR TIDE MOTOR. GEORGE P. A. WEISENBORN, Salt Lake City, Utah, assignor, by mesne assignments, to said George P. A. Weisenborn, trustee in trust of The United Manufacturing and Power Company, Seattle, Wash. Filed May 4, 1920. Serial No. 378,756. 2 Claims. (Cl. 170—126.)

2. In an apparatus of the class described, a submersible barge having a conduit therethrough, a shaft mounted for rotation in said conduit, propeller devices attached to said shaft and each including a hub, an annular rim connected to said hub by radiating rods, a sleeve rotative on each of said rods, a tubular member rotative on each sleeve, winged extensions upon each of said tubular members and a stop disengageably connected with each tubular member to



limit its movement on the sleeve, whereby the flow of the water through the conduit will dispose the blades in operative position when flowing in either direction.

1,396,610. POLISHED-ROD CLAMP. EDWARD P. WHISTER, Ranger, Tex. Filed Mar. 18, 1920. Serial No. 367,003. 1 Claim. (Cl. 24—248.)



In a rod clamp, a yoke member, a flat oval shaped gripping member eccentrically pivoted between the arms of the yoke member, said pivot being in the major axis of the gripping member, the end of the gripping member remote from the pivot being serrated, a handle on the gripping member, said gripping member being adapted to grip and hold a rod against movement in either direction through the yoke.

1,396,611. RETAINING DEVICE FOR SCREWS OR BOLTS. GROVER W. WHITE, Atlanta, Ga. Filed Feb. 16, 1921. Serial No. 445,412. 1 Claim. (Cl. 85—32.)



A device of the class described comprising a tubular element having an external thread one end of which terminates in a cutting point, and the tubular element being

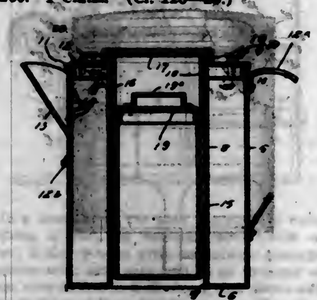
provided with spaced longitudinal channels interrupting the thread, and one end of a tubular element having a transverse slot, and an element threaded into the bore, the tubular element being adapted for reception within the bore of a structural element, and the device threaded into the tubular element serving to retain another structural element in engagement with that first named.

1,396,612. KEEO-SETTING MECHANISM. NELSON WHITE, Des Moines, Iowa, assignor to Monroe Calculating Machine Company, New York, N. Y., a Corporation of New York. Filed Oct. 28, 1920. Serial No. 419,026. 5 Claims. (Cl. 235—144.)



1. Means for holding either of two shafts against rotation during the rotation of the other shaft, consisting of a member fast to each shaft and having a seat, pivotal arms having normal engagement with the seats, a spring connecting said arms and maintaining said engagement, and operating means movable in one direction to rotate one of said shafts and in another direction to rotate the other of said shafts and adapted in its initial movement to release one or the other of said arms prior to rotating the related shaft and against the tension of said spring.

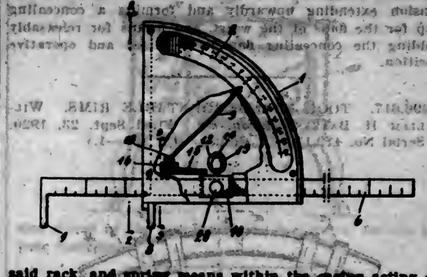
1,396,613. CAMPER'S COOKER. ARTHUR B. WILBY, Sweetwater, Okla. Filed July 8, 1919. Serial No. 309,260. 1 Claim. (Cl. 126—89.)



In a cooker, a receptacle having a flue, a cover closing the space exterior to the flue, a container in the flue, and a handle for the container engaging the top of the flue to hold the container in suspension and projecting beyond the flue to engage the cover and retain it in place.

1,396,614. MICROMETER-GAGE. EDWARD HUGH WILLIAMS, New Orleans, La. Filed Oct. 26, 1920. Serial No. 419,780. 2 Claims. (Cl. 33—147.)

1. A micrometer gage comprising a casing having a recessed block in its lower edge and a scale along one side thereof, a ruler slidable in the recess in said block, lugs on said casing and ruler, a second block mounted within the casing and being relatively movable to said first mentioned block, and to the ruler, said ruler slidably fitting through the last mentioned block, means carried by the last mentioned block for clamping the latter to said ruler, a rack permanently connected to said second mentioned block, a pointer in the casing adapted to move over said scale and having teeth adapted to engage with said rack, and spring means within the casing acting on said second mentioned block to hold the same in an intermediate initial position, substantially as described.

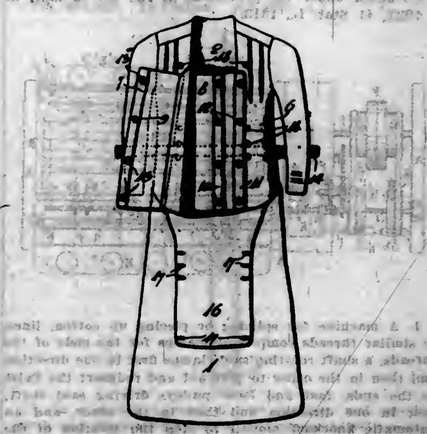


1,396,615. SPIKE-PULLER. FREDERICK WOODCOCK, Duanesburg, N. Y. Filed June 22, 1920. Serial No. 390,704. 1 Claim. (Cl. 254—21.)



An extractor of the class described having a mounting member with spaced walls, a lever intermediate said walls and pivoted thereto, said lever having a notch beyond the walls, a leaf spring to close said notch disposed intermediate said walls and on the lever, an extractor member having a bar disposed in said notch, the side walls of said notch diverging from the base to the entrance, said spring engaging said extractor member to normally maintain it spaced with respect to said walls, and retaining means for the springs on said arms.

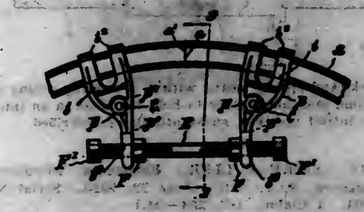
1,396,616. GARMENT. LEANORE E. ALLEIGH, San Francisco, Calif. Filed Mar. 21, 1921. Serial No. 453,999. 4 Claims. (Cl. 2—145.)



1. A dress comprising a skirt and waist, the waist having unconnected front side sections provided with

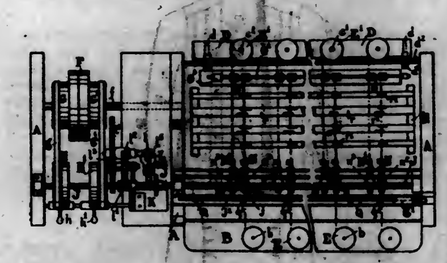
flap extensions for extending in overlapped relation, means for releasably holding the flap extensions in adjusted overlapped relation, the skirt having a flap extension extending upwardly and forming a concealing flap for the flaps of the waist, and means for releasably holding the concealing flap in a raised and operative position.

1,396,617. TOOL FOR DEMOUNTABLE RIMS. WILLIAM H. BASKIN, Macon, Ga. Filed Sept. 23, 1920. Serial No. 412,156. 1 Claim. (Cl. 157—1.)



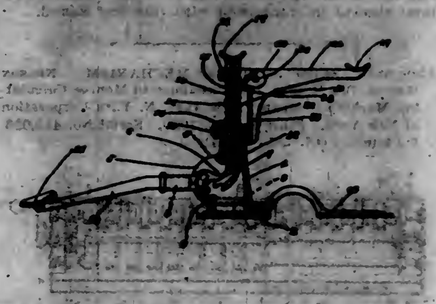
A tool of the character described, comprising a pair of clamps, each clamp being formed of a pair of reversely disposed gripping members, each member being flared outward and broadened laterally and bifurcated at its heel, and then curved inward to form a bifurcated gripping claw, the heads of said gripping members being each grooved on the inner side to form a passageway substantially parallel to said claws, and the said members being perforated transversely intermediate of said grooves and said claws, screw bolts passing, respectively, through said perforations in each pair of gripping members, with nuts on said bolts for drawing said jaws together, and a right and left-handed screw having its ends passing said grooves, with nuts on said last mentioned screw, respectively engaging the heads of said clamps, substantially as and for the purpose described.

1,396,618. MACHINE FOR SPLICING AND PIECING UP COTTON, LINEN, OR SIMILAR THREADS. ARTHUR BENNETT, Hollinwood, England. Filed Apr. 2, 1921. Serial No. 458,168. 5 Claims. (Cl. 28—2.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



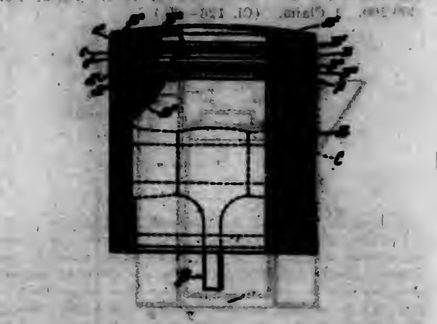
1. A machine for splicing or piecing up cotton, linen or similar threads comprising clamps for the ends of the threads, a shaft rotating said clamps first in one direction and then in the other to take out and re-insert the twist in the ends, fast and loose pulleys driving said shaft, first in one direction and then in the other, and an automatic knock-off motion to stop the rotation of the shaft after making the predetermined number of revolutions for taking out or re-inserting the twist.

1,396,619. AUTOMOBILE JACK. GUY L. BOWMAN, West Haddam, Conn. Filed Aug. 16, 1920. Serial No. 403,690. 5 Claims. (Cl. 254—116.)



1. A jack including a pedestal, a foot lever fulcrumed therein, a stem slidable in the pedestal and connected to the lever, means for engaging the stem to hold it against downward movement, an extension bar detachably connected to the pedestal, and an extension head adjustably connected to the stem and overhanging the extension bar.

1,396,620. METALLIC PISTON PACKING. HARRY MORTON BRAMMER, Norfolk, Va., assignor to Piston Research Corporation, Norfolk, Va., a Corporation of Virginia. Filed Apr. 8, 1921. Serial No. 460,568. 2 Claims. (Cl. 74—109.)

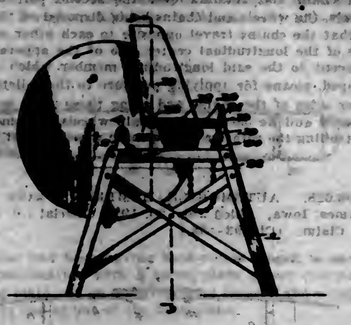


1. In a metallic piston packing, the combination with a piston provided with an annular groove in the cylindrical portion thereof, said groove having parallel side walls perpendicular to the axis of the piston, and having also a pair of annular ribs each rectangular in cross section projecting outward from the bottom of said groove, of a compound packing ring composed of two outer rings each substantially L-shaped in cross section, and a middle ring mounted between said outer rings and bearing against the adjacent faces of said outer packing rings.

1,396,621. MACHINE FOR TREATING GRAIN, &c. HAROLD L. BUNN, Hatton, N. D. Filed Apr. 16, 1921. Serial No. 461,893. 6 Claims. (Cl. 83—28.)

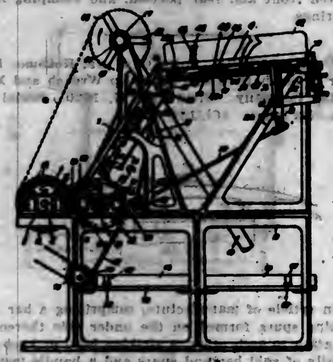
1. In a machine for treating grain and other agricultural products, an unbalanced or over-weighted drum which, by reason of its unbalanced or overweighted con-

dition, is adapted to automatically turn to a draining position when free having a compartment for containing



a solution and another compartment in communication therewith for containing grain or other product to be treated.

1,396,622. FEEDING MECHANISM FOR PRINTING-MACHINES. ALFRED SEDGEAR BULLEN and CHARLES JEAYES, Auckland, New Zealand. Filed Aug. 26, 1920. Serial No. 406,352. 6 Claims. (Cl. 271—28.)

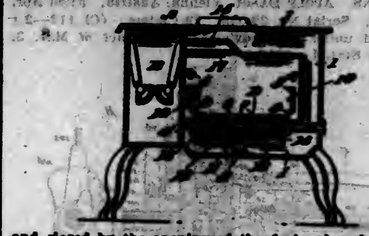


1. In a machine of the kind described, a hollow spindle containing a port, in communication with an air exhauster; a sleeve with arms containing passages adapted to register with said port and to be directed so that the vacuum acts on stacked envelops, and slides adjustable in the extremities of the arms for varying the cross sectional areas of the passages therein.

1,396,623. COMBINED GAS AND WOOD AND COAL RANGE. GUY B. CHISO, Chicago, Ill., assignor to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed Nov. 11, 1919. Serial No. 337,216. 6 Claims. (Cl. 126—94.)

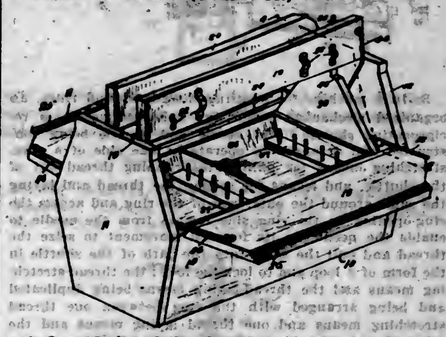
1. A cooking range of the character described, comprising an oven, a burner chamber below the oven and in communication with the oven, an air inlet passage in communication with the burner chamber extending laterally thereto, the inlet passage having longitudinally extending supplemental passage connections communicating with the ends of the burner chamber, an air outlet passage communicating with the oven, a chimney flue communicating with the said oven outlet passage, a gas burner in the burner chamber, a fuel valve for the burner, dampers adapted to open and close the air inlet and the oven out-

let flue, and operative connections between the fuel valve and both of said dampers whereby the dampers are opened



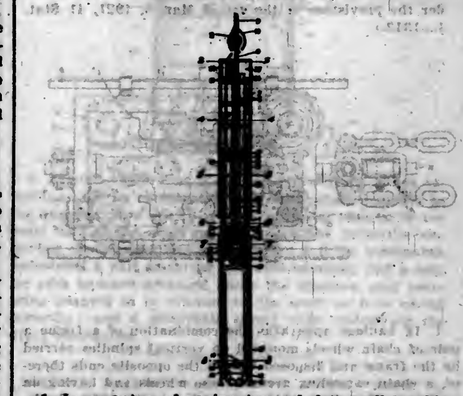
and closed by the opening of the fuel valve, for the purpose described.

1,396,624. SEWING-CABINET. SAMUEL ADOLPHUS CLARK, Seattle, Wash. Filed Nov. 6, 1920. Serial No. 422,520. 6 Claims. (Cl. 223—52.)



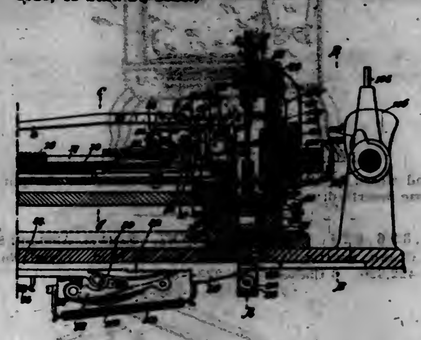
1. In a device of the class described, a casing including hinged side elements movable outwardly and from each other to open position, hinged top elements movable toward each other to open position, and means for moving the side and top elements to open or closed position simultaneously.

1,396,625. EARTH-BORING MACHINE. CLYDE S. CORMAN, Norwood, Ohio. Filed July 15, 1920. Serial No. 396,892. 16 Claims. (Cl. 255—4.)



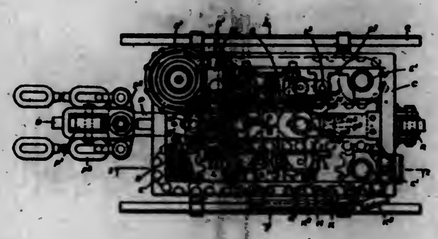
1. In a motor advancing type of deep well machine, earth and stone cutting saws, motors operatively connected thereto and means of raising and lowering and supplying power to said machines.

1,396,626. MACHINE FOR COVERING RINGS WITH THREADS, ESPECIALLY FOR MAKING THREAD-BUTTONS. ADOLF DANZL, Vienna, Austria. Filed Apr. 17, 1915. Serial No. 22,023. 29 Claims. (Cl. 112—2.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



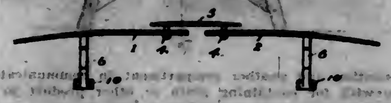
3. In a machine for securing threads around rings, an organized mechanism comprising a beaked needle, a reciprocating shuttle; said needle and shuttle being constructed and arranged to operate at one side of a ring, stretching means for pulling the running thread out of the shuttle, and means for making the thread and laying the same around the outer rim of the ring and across the ring-opening on the ring side remote from the needle to enable the needle on its forward movement to seize the thread and pull the same into the path of the shuttle in the form of a loop and to lock the loop; the thread-stretching means and the thread-laying means being duplicated and being arranged with the ring between one thread stretching means and one thread laying means and the other thread stretching means and thread laying means, and the thread laying means being constructed and arranged to lay the running thread across one side and then across the other side of the ring, around the edge and across the opening of the ring.

1,396,627. HAULAGE APPARATUS. CHARLES THOMAS DENHAM, Massa, Italy. Filed June 28, 1920. Serial No. 392,498. 9 Claims. (Cl. 105—30.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In haulage apparatus the combination of a frame a pair of chain wheels mounted on vertical spindles carried by the frame and disposed toward the opposite ends thereof, a chain extending around these wheels and having on its inner side rollers which engage the teeth of the wheels, members mounted on the exterior of the chain and adapted to engage and grip a longitudinal member to which haulage power is to be applied, a second pair of chain wheels mounted and arranged similarly to the first pair, a chain with rollers and gripping members similar to the first chain and running over the second pair of chain wheels, the wheels and chains being disposed on the frame so that the chains travel opposite to each other on either side of the longitudinal center line of the apparatus and adjacent to the said longitudinal member which is to be gripped, means for applying pressure to the rollers on the inner sides of the chains and along those parts which are opposed and lie between the chain wheels, and means for controlling the rotation of the chain wheels as set forth.

1,396,628. AUTOMOBILE BUMPER. FRANK ELLIS, Ames, Iowa. Filed July 26, 1920. Serial No. 397,581. 1 Claim. (Cl. 293—85.)



An automobile bumper comprising curved end bars, each provided with a slot adjacent the end, a solid central bar, bolts projecting from the central bar and adjustably mounted in said slots, vertically extending springs connected at a central point to said end bars and each having a curved front and rear portion, and clamping arms for the springs.

1,396,629. CAM-PINION. JOHN G. HAAS, Kokomo, Ind., assignor of one-half to The Speed-Up Wrench and Manufacturing Company. Filed Apr. 27, 1920. Serial No. 376,926. 8 Claims. (Cl. 164—118.)



1. As an article of manufacture, comprising a bar having punching spurs formed on the under side thereof in spaced relation to each other, a striking head or knob carried medially of said bar and spurs and a handle member terminally of said bar.

1,396,630. TOOTHBRUSH-HEAD. LE GRAND HIGGINS, Clovis, Ill. Filed Apr. 12, 1920, Serial No. 373,227. Renewed Sept. 21, 1921. Serial No. 502,260. 2 Claims. (Cl. 15—87.)



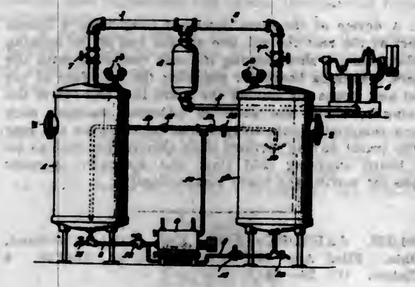
1. A tooth brush head comprising a casing, a shaft projecting therefrom, a plurality of spring tongues struck from the casing, a base having a plurality of recesses for detachable engagement with the tongues, and bristles projecting from the base.

1,396,631. LOOSE-LEAF BINDER. MARK P. JACKSON, Abbeville, Ga., assignor to Beorum and Pease Company, New York, N. Y., a Corporation of New York. Filed Feb. 3, 1920. Serial No. 356,494. 2 Claims. (Cl. 129—24.)



1. A loose leaf book having hook-plates hinged to each other in combination with a spring-plate to act thereon, a retaining plate and an upwardly bent lever of the second class on the end of one of the hook-plates.

1,396,632. METHOD AND APPAPATUS FOR TREATING LIQUIDS. AAGE JENSEN, Portland, Oreg., assignor to Jensen Creamery Machinery Company, Inc., a Corporation of New York. Filed May 31, 1919. Serial No. 301,131. 4 Claims. (Cl. 99—18.)

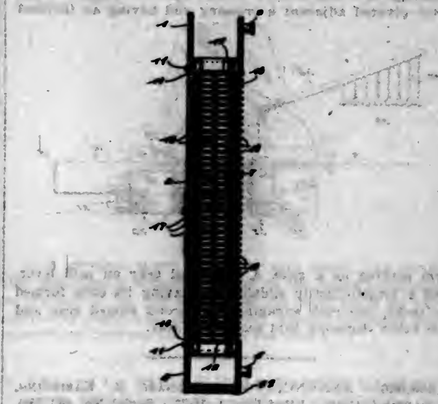


1. The process of treating milk, cream, and the like, which consists in subjecting the same to sub-normal pressure to withdraw free oxygen and gaseous content, and when in this condition in subjecting the same to a pasteurizing temperature while moving rapidly in a thin layer, said pasteurizing action being obtained through a continuous circulation of the material between the point of sub-normal pressure and the pasteurizing point.

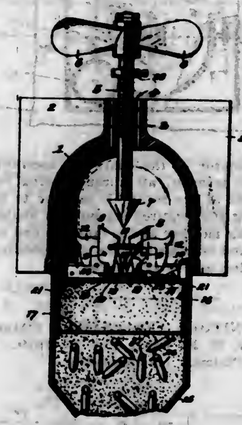
4. An apparatus for treating milk, cream, and the like, comprising a plurality of containers, means for applying a vacuum thereto, a pasteurizing apparatus, and connections between each of said containers and said pasteurizing apparatus for permitting a continuous circulatory movement of the material being treated through any one of said containers and said pasteurizing apparatus.

1,396,633. RADIATOR FOR AUTOMOBILES AND THE LIKE. HENRY N. JENSEN, Estherville, Iowa. Filed Apr. 12, 1920. Serial No. 373,318. 5 Claims. (Cl. 257—130.)

1. In a radiator for automobiles or the like, the combination of a unit including upper and lower tanks and vertical conduits disposed between the tanks and communicatively connecting them together; of a second unit mounted upon the first unit and detachable as a whole therefrom while the first unit is completely assembled, said second unit comprising a frame fitted upon the front of the first unit, a plurality of horizontal fin plates secured to and carried by said frame and having notches receiving said conduits, and means for detachably securing said frame to the front of the first unit.



1,396,634. AERIAL TORPEDO OR BOMB. EDWARD W. JOHNSON, Chicago, Ill. Filed Nov. 26, 1917. Serial No. 203,984. 3 Claims. (Cl. 102—2.)

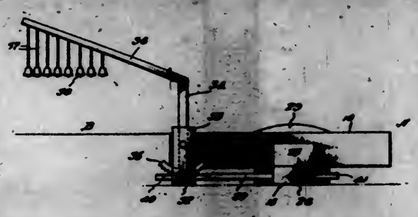


3. A bomb comprising a body, a plurality of wings extending radially therefrom; a threaded shaft mounted in the upper portion of the body; a propeller secured to the outer end of the shaft; an explosive and projectile-containing chamber secured to the body; a firing mechanism embodying a pair of spring actuated hammers and a sear for each hammer arranged above the chamber, said sears being adapted to be released by the shaft as it is moved inwardly; and a removable safety slide underlying the firing mechanism.

1,396,635. RAILROAD-CROSSING GATE. STINE L. JONES, Baton Rouge, La. Filed Mar. 19, 1921. Serial No. 453,553. 3 Claims. (Cl. 246—302.)

1. In a trackway, a depressible shoe engageable by the wheels of a train whereby to be moved downwardly,

springs normally urging said shoe upwardly, a rack depending from said shoe, a shaft, a pinion on said shaft meshing with said rack, a second pinion on said shaft, a lever pivoted adjacent a crossing and having an inclined



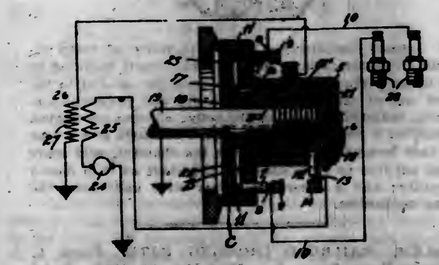
arm serving as a gate, a segmental gear on said lever, and a longitudinally slidable bar having its ends formed as racks, one rack engaging the second named gear and the other engaging said segmental gear.

1,396,636. ANNUNCIATOR. BERNARD R. KABIGTING, Oakland, Calif. Filed Feb. 1, 1921. Serial No. 441,580. 5 Claims. (Cl. 40—96.)



1. An annunciator of the character specified, comprising a rotatable member, an apron bearing legends and geared to an end of the rotatable member to be operated thereby to bring the required legend into visible position, and an operating member at the opposite end of the rotatable member and bearing legends corresponding with the legends appearing on the said apron.

1,396,637. IGNITION APPARATUS. CHASE KENNEDY, Perth Amboy, N. J. Filed July 25, 1919. Serial No. 313,166. 3 Claims. (Cl. 200—19.)



1. An ignition device comprising a disk-like element having a hub provided with a metallic bushing adapted for operative connection with one end of a cam shaft and serving to hold said disk-like elements in a position at right angles to the axis of said cam shaft, a metallic collector ring secured to said disk-like element and provided with a radial arm, said ring being eccentric with the disk like element, a cap housing said disk-like element, contact devices carried by said cap, said contact devices respectively adapted to co-act with said radial arm of the aforesaid collector ring and lying parallel to the axis of the bushing of said disk like element, a contact element radiating from the cap and co-acting with said metallic bushing, a contact brush co-acting with said metallic collector ring, the disk-like element formed of insulating material and associated with respect to the walls of the cap to prevent leakage of the current past the effective sparking points between the metallic ring and its co-acting contact devices, all of said contact devices and said brush adapted to be operatively arranged in an ignition circuit.

1,396,638. POSTER-FRAME. WILLIAM ARTHUR KILGO, Asheville, N. C. Filed Apr. 2, 1921. Serial No. 457,966. 2 Claims. (Cl. 40—86.)



1. A device of the class described comprising a frame, rollers at the rear thereof, one at each end of the opening in the frame, a sheet having its ends connected with the rollers, a backing board for engaging the rear face of the sheet and means for moving the board into and out of the opening to clamp the sheet in adjusted position, such means comprising outwardly extending parts on the rear of the frame having inclined slots therein, projections on the board engaging said slots and manually operated means for moving the board longitudinally.

1,396,639. LAUNDRY-CLIP. LADA KIML, Cleveland, Ohio. Filed Apr. 17, 1920. Serial No. 374,728. 4 Claims. (Cl. 24—261.)

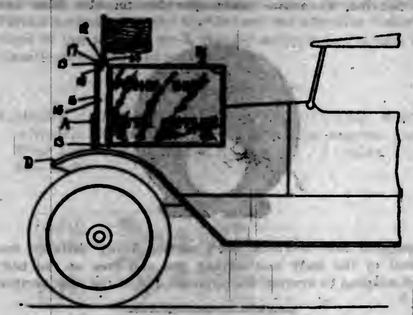


1. A laundry clip comprising a plate, a wire, the wire being provided with a loop, the loop of the wire being pivoted to the plate, and the plate being provided with means for holding the free ends of the wire when the wire is inclined with relation to the plate, substantially as described.

1,396,640. ADVERTISING DEVICE. CHARLES W. KING, St. Louis, Mo. Filed Dec. 12, 1920. Serial No. 430,218. 6 Claims. (Cl. 40—125.)

1. A device of the character described comprising a bar adapted for connection at its center with the filling neck of a radiator, clamping means carried by said bar and engageable with the filling neck of a radiator, uprights at

the ends of said bar, plate members pivoted upon said uprights and adapted to bear display matter, a cross bar



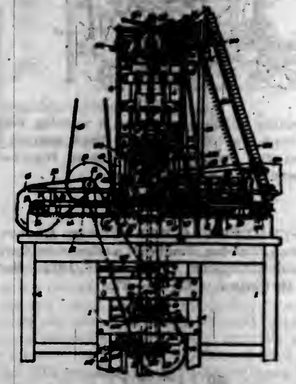
connecting the upper ends of said uprights whereby to hold them rigid, and means for locking said plates with respect to said uprights.

1,396,641. MEDICATED CHEWING-GUM. GUY KING, Atlanta, and CHARLES G. ADEIT, Tallulah Falls, Ga. Filed Mar. 12, 1921. Serial No. 451,771. 5 Claims. (Cl. 99—16.)

1. A medicated chewing gum comprising the ordinary chewing gum ingredients and having incorporated therein a chloroamin.

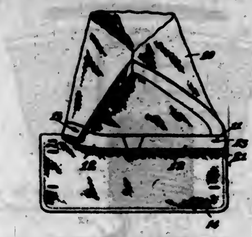
2. A medicated chewing gum comprising the ordinary chewing gum and one or more of the chloroamins in about the proportion of one thousand (1000) parts of the former to five (5) parts, or less, of the latter.

1,396,642. DRY-CELL TAMPING APPARATUS. HENRY T. LANG, Fremont, Ohio, assignor to National Carbon Company, Inc., a Corporation of New York. Filed Oct. 13, 1917. Serial No. 196,541. 20 Claims. (Cl. 226—1.)



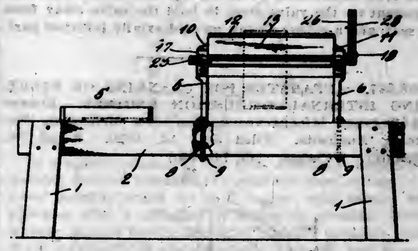
1. In apparatus for tamping mix in dry cell cans, the combination of a reciprocating can carriage and tamping means separable as the mix is tamped in the can and in tamping relation when adjacent each other, an intermittently rotatable can carrier having pockets for cans, a continuously moving conveyer coöperating with said pockets adapted to feed empty cans thereto, a retaining arm coöperating with the empty cans on said conveyer adapted to retain the cans thereon during the rotation of the can carrier and means operated by the can carriage adapted to move the arm to release a single can from the conveyer when the tamping means and can carriage are separated to deposit said can in one of said pockets.

1,396,643. REVERSIBLE CUFF. JOHN J. LONG, Norfolk, Va. Filed Apr. 4, 1921. Serial No. 458,491. 13 Claims. (Cl. 2—79.)



2. A garment sleeve, a cuff for said sleeve, and means for permanently securing the cuff to the sleeve permitting a reversal of the cuff by turning the same about an axis extending lengthwise of the sleeve without breaking said connection between the cuff and the sleeve.

1,396,644. PRESS-CLOTH-REPAIRING MACHINE. ABNER JUDSON LUBEY, Baton Rouge, La. Filed Jan. 14, 1921. Serial No. 437,295. 6 Claims. (Cl. 223—54.)



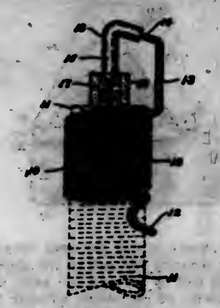
1. A device of the kind described comprising a support, fixed jaws associated therewith, movable jaws coöperating with the fixed jaws, holders for the movable jaws, formed with eccentric straps, eccentrics movable in said straps, rock shafts for moving said eccentrics, and handles on said rock shafts, substantially as described.

1,396,645. SAFETY-RAZOR. EDWIN C. MADDEN, New York, N. Y. Filed Feb. 6, 1920. Serial No. 356,620. 7 Claims. (Cl. 30—12.)



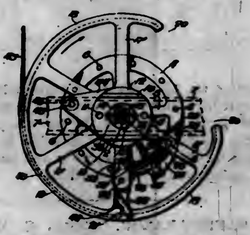
1. In a safety razor, a handle; a spring yoke carried thereby; oppositely disposed pintles carried by the yoke; a blade supporting bed pivotally mounted on the pintles; a blade clamping member likewise pivotally mounted on the pintles; and friction connections between the yoke and bed, and between the bed and clamping member serving to hold the parts in their adjusted position.

1,396,646. INNER-TUBE DEFLATOR. GEORGE S. MELLOR, Philadelphia, Pa. Filed June 25, 1921. Serial No. 480,434. 4 Claims. (Cl. 152—12.)



3. A deflator for pneumatic tires consisting of a spirally wound wire tube having an inherent degree of retraction and formed at one end with a manipulating finger whereby the diameter thereof may be expanded, a longitudinally extending part at the other end of said spirally wound wire tube terminating in an axially inturned arm for engagement on the valve stem to hold the valve away from its seat, and a rubber sheath on said axially inturned part.

1,396,647. APPARATUS FOR CRANKING OR STARTING INTERNAL-COMBUSTION ENGINES. ROBERT ALEXANDER MILLER-ARGUS, Essendon, Melbourne, Victoria, Australia. Filed July 12, 1920. Serial No. 396,647. 3 Claims. (Cl. 74—56.)



2. A starting device for internal combustion engines, comprising a stud wheel secured to the crank shaft having a plurality of laterally projecting studs thereon, a stationary sleeve secured to the engine frame, a catch wheel rotatable on the sleeve and having a circumferential groove, a pull line secured at one end to the catch wheel and passing around the groove, a catch block carried by the catch wheel, said block being pivoted at one end to the catch wheel and formed with a catch at the other end adapted to engage the studs on the stud wheel, means for lifting the catch block out of engagement with the studs, and resilient means engaging the stationary sleeve and the catch wheel for normally holding said catch wheel in one position.

1,396,648. AUTOMOBILE-TIRE FILLER. STEPHEN D. MILLS and HIRAM PAUL, Oklahoma, Okla. Filed Dec. 2, 1919. Serial No. 341,845. 1 Claim. (Cl. 152—10.)

A filler for automobile casings of the character described comprising a body of soft rubber having an annular recess therein adjacent its inner circumference, a small pneumatic tube removably seated in said recess, an air valve extending through the body between the parts of the casing and through the opening in the wheel rim and adapted to receive the ordinary inflating means whereby the tube may be inflated, a canvas cover provided for the filler and



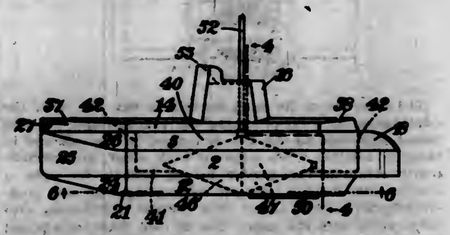
separated into sections, each section being suitably fastened to the body and having one end free of the body and adapted to overlap the adjacent end of the next section.

1,396,649. WELL-DRILLING APPARATUS. GEORGE S. MINSHALL, Bowling Green, Ky. Filed Sept. 18, 1920. Serial No. 409,802. 7 Claims. (Cl. 255—11.)



1. In a drilling machine, a frame, a walking beam carried by the frame, a counterbalance beam carried by the frame, means for connecting the beams together, and means for operating one of the beams.

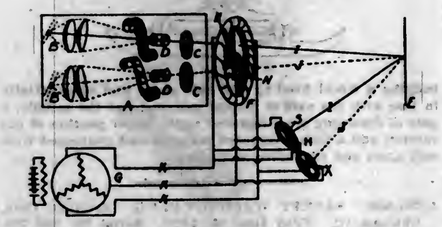
1,396,650. SUBMERSIBLE TOY. EDWARD MOLLOY, Clapham Common, London, England, assignor to Cyril Fells Stacey, London, England. Filed Apr. 6, 1921. Serial No. 458,971. 15 Claims. (Cl. 46—37.)



1. A submersible toy comprising in combination a casing, buoyancy-producing means carried by said casing, and means operable by human agency for overcoming the buoyancy produced thereby and thus permitting the toy to sink,

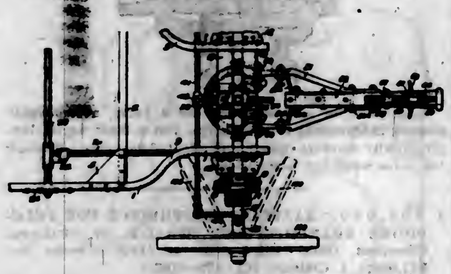
said buoyancy-producing means including a member carried by the casing and, after the last named means have operated, automatically changing in size without further human actuation of the toy to vary the effective displacement of the toy and cause the toy entirely by its own automatic action to rise again.

1,396,651. STEREOSCOPIC-MOTION-PICTURE MECHANISM. EDGAR BLACKBURN MOORE, Los Angeles, Calif. Filed Aug. 7, 1916. Serial No. 113,535. 3 Claims. (Cl. 88—16.6.)



2. A mechanism, consisting of a rotary eyepiece light shutter with the rim, or the fixed part of the same containing the stator of a polyphase electric motor, the rotating disk of the above shutter corresponding to the rotor of the above motor.

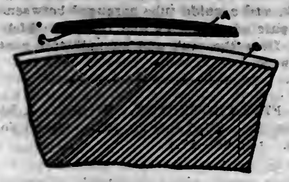
1,396,652. COMBINED MOTOR AND ANIMAL-DRAFT VEHICLE. JAMES MORRISON, Cincinnati, Ohio, assignor to The Trailmobile Company, Oakley, Cincinnati, Ohio, a Corporation of Ohio. Filed June 28, 1920. Serial No. 392,2[illegible]. 5 Claims. (Cl. 280—33.6.)



1. In a vehicle, a structural iron, built-up frame, having a reduced width front end, a front axle, a semi-elliptical leaf spring extending longitudinally with the axle between the axle and frame, having its opposite ends pivotally connected to the axle and intermediately connected to the frame and centrally thereof, wheel carrying stub axles pivotally mounted to the opposite ends of said axle, a wheel steering fifth wheel swiveled centrally upon said axle and connecting with said stub axles, a draft bar pivotally connecting with said fifth wheel, a cross-rod connecting with the opposite sides of said frame, and a pair of parallel brace-rods pivotally connecting with said axle and cross-rod.

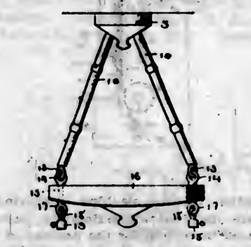
1,396,653. TYPOGRAPHIC PRINTING-PLATE. JOHN MURRAY, London, England. Filed Aug. 15, 1921. Serial No. 492,488. 1 Claim. (Cl. 101—3.)

A typographic printing plate and cylinder therefor, the plate being curved on its outer surface to the radius of the printing surface and initially flat or substantially so on its inner surface and having in its inner surface a series of grooves the bottoms of which are curved to the radius of the surface of the cylinder and the cylinder having in



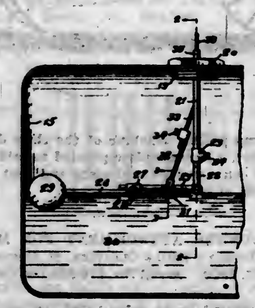
it a series of circumferential grooves counterpart to the ribs in the inner surface of the plate, as set forth.

1,396,654. LIGHTING-FIXTURE. EARL B. NEWMAN, Findlay, Ohio. Filed Nov. 6, 1919. Serial No. 336,126. Renewed Sept. 14, 1921. Serial No. 500,705. 1 Claim. (Cl. 240—78.)



In a lighting fixture of the class described comprising a wooden, hollow, substantially semi-spherical canopy, a fire proof metallic lining for said canopy, said canopy being provided with a plurality of diverging openings therein, wooden casings having fire proof metallic conduits therein fitted terminally in the diverging openings, and threaded to receive securing nuts thereon arranged within the hollow canopy, depending eyes carried by the lower extremities of said metallic conduits, an enlarged spacing element provided with a plurality of vertical apertures therein near its outer periphery, eye bolts positioned within the said vertical apertures and connected to the depending eyes, and loosely connected depending sockets carried by the lower terminals of the said eye bolts and beneath the spacing element.

1,396,655. GAGE. RICHARD T. NEWTON, New York, N. Y. Filed Dec. 30, 1918. Serial No. 268,907. 2 Claims. (Cl. 73—82.)



1. In a tank cage, a tank frame comprising a pair of spaced standards, a second pair of spaced standards ad-

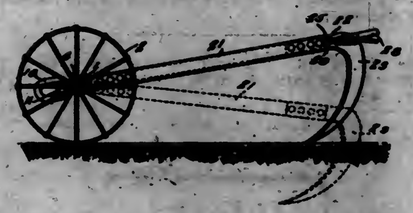
justably secured thereto, a foot lever pivoted between the lower ends of said adjustable standards, a link pivoted to said foot lever, a flexible gage wire adjustably clamped to said link, and a guide tube arranged between said foot mentioned pair of standards and through which the gage wire is led from the tank and an indicator controlled by said gage wire.

1,396,656. FIRE-PROTECTOR. NICHOLAS A. NICHOLSON, Johnstown, Pa. Filed July 26, 1920. Serial No. 397,674. 2 Claims. (Cl. 98—17.)



1. In a motion picture machine employing a film, a frame; a plate disposed approximately parallel to the frame and spaced therefrom for the passage of the film the plate having an opening; a shutter controlling the opening and mounted to swing on an axis approximately parallel to the plate; a bumper including a member mounted to move in a direction approximately parallel to the plate and cooperating with the shutter to hold the shutter closed and in open position; and a circuit including the bumper, the circuit being maintained open by the film when the film is in its normal place, and being closed when the film is in abnormal position.

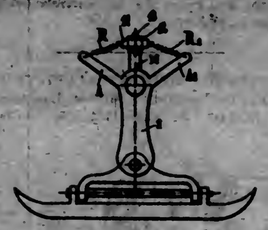
1,396,657. STUMP-PULLER. JOHN W. JOHNSON, Jacksonville, Fla. Filed Nov. 22, 1920. Serial No. 425,708. 5 Claims. (Cl. 254—132.)



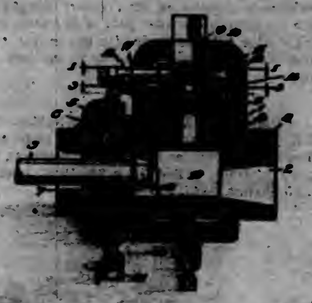
1. In a stump pulling machine of the class described, a movable support, a harness plate pivoted to said support, a pair of beams connected to said plate and root hooks carried at the ends of said beams.

1,396,658. RUNNER ATTACHMENT FOR MOTOR-VEHICLES. JOCELYN EMILE OLLIVIER, St. Gervais, France. Filed Oct. 27, 1920. Serial No. 419,958. 4 Claims. (Cl. 280—13.)

1. An attachment to be substituted for an automobile wheel, comprising a runner carrier adapted to be fastened to the adjacent steering spindle on one axle of the automobile; a runner connected with the foot of the carrier to rock relatively thereto about both its transverse and its longitudinal axis; and a stop device for preventing the carrier from turning about the axis of the spindle and embodying a wheel fixed to said axle above and substantially in line with the axis of pivotal movement of the spindle, a pair of diverging arms fastened to the upper portion of the carrier, and a fork interposed between and connected with said arms and straddling said wheel.



1,396,659. SAFETY WASHOUT-PLUG. SPENCER OTIS, Chicago, Ill. Filed June 25, 1920. Serial No. 391,795. 6 Claims. (Cl. 137—69.)



1. A plug for combination having a valve, a removable element independent of said valve, and a blast nozzle longitudinally movable therein and adapted to operate through the valve when the latter is open.

1,396,660. SANITARY MOUTHPIECE FOR TELEPHONE-TRANSMITTERS. WILLIAM H. PALMER, Cleveland, Ohio. Filed Sept. 18, 1920. Serial No. 411,066. 1 Claim. (Cl. 179—187.)



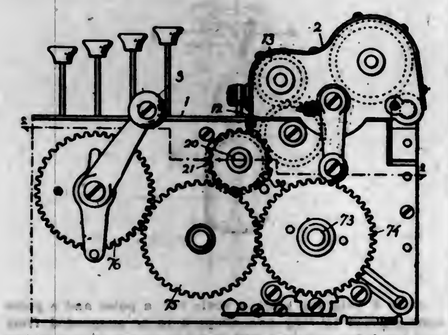
In a mouth piece for use in association with telephone transmitters, the combination of annular means designed for connection to a transmitter and equipped with straight spaced spring fingers on which are inwardly deflected terminals, of a removable member having a circumferential flange at one end the periphery of which is beveled toward said end, whereby the flange is adapted to be pressed into and pulled out of engagement with the terminals of the spring fingers, and also having a circumferential groove immediately in front of said flange, the said flange having longitudinally-displaced grooves in its periphery to receive the fingers when the mouth piece is moved rectilinearly between the fingers.

1,396,661. SPRING DEVICE FOR CHAIRS. HENRY A. FABB, New York, N. Y. Filed Jan. 22, 1916, Serial No. 213,218. Renewed Apr. 26, 1921. Serial No. 464,538. 4 Claims. (Cl. 45—137.)



1. A spring support for a chair, including a base plate, a top plate, springs for sustaining the top plate, and tension members for drawing one of said plates toward the other plate against the opposition of said spring.

1,396,662. CALCULATING-MACHINE. EDGAR E. PRENNEY, New York, N. Y., assignor to Monroe Calculating Machine Company, New York, N. Y., a Corporation of New York. Filed Dec. 26, 1918. Serial No. 268,343. 17 Claims. (Cl. 235—79.)



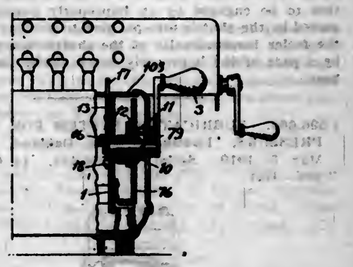
1. In a calculating machine, register wheels, selecting wheels adapted to rotate the register wheels, carry mechanism adapted to thereafter rotate the register wheels, an operating shaft, and means adapted to rotate the selecting wheels and the carry mechanism continuously and during the rotation of the operating shaft and for vibrating the selecting wheels into and out of driving connection with the register wheels without modification of the rate of rotation thereof.

3. In a calculating machine, register wheels, selecting wheels adapted to rotate the register wheels, carry mechanism adapted to thereafter rotate the register wheels, an operating shaft, and means adapted to rotate the selecting wheels and the carry mechanism continuously and at an even rate of speed during the rotation of the operating shaft and for vibrating the selecting wheels into and out of driving connection with the register wheels and including a driving element, a member fast thereto, a member fast to the shaft of the selecting wheels, and a loose connecting member.

12. In a calculating machine, selecting mechanism including a shaft, a plurality of driving elements mounted thereon and a series of digital keys for each element, carry mechanism including a shaft and a plurality of driving elements mounted thereon, numeral wheels operable by the selecting elements and carry elements, an operating device, and means whereby movement of said device may be transmitted at a constant speed ratio to the selecting elements and to the carry elements through successive cycles of operation.

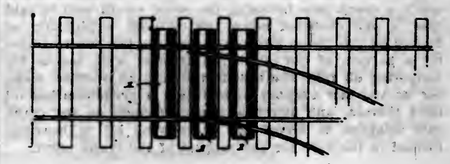
17. In a calculating machine, selecting mechanism including laterally adjustable gears, carry mechanism including rotary elements, numeral wheels operable by the selecting gears and carry elements, an operating device, and means whereby movement of said device may be transmitted at a constant speed ratio to the selecting gears and to the carry elements through successive cycles of operation.

1,396,663. CRANK-HANDLE LATCH. EDGAR E. PRENNEY, West Orange, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a Corporation of New York. Filed Mar. 15, 1920. Serial No. 365,971. 4 Claims. (Cl. 74—33.)



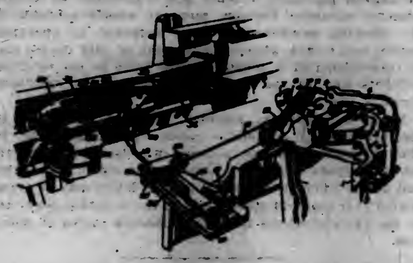
1. In a device of the character described, a machine having a stationary sleeve, a rotary driving member journaled upon said sleeve, an operating handle having driving engagement with said member and provided with a stud shaft rotatably and slidably engaging the bore of said sleeve and provided at its inner end with an annular groove, and a retaining lever operable in a plane at right angles with the axis of said stud shaft and engaging said groove.

1,396,664. RAILWAY-SWITCH HEATER. ISAAC C. POPPER, New York, N. Y., assignor to The Theros Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 16, 1919, Serial No. 345,331. Renewed Sept. 14, 1921. Serial No. 500,704. 12 Claims. (Cl. 246—428.)



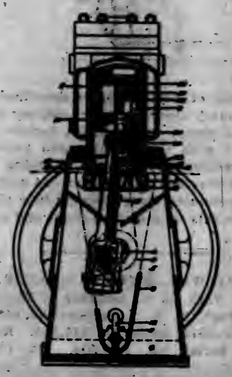
8. A railroad switch heater including a horizontally disposed tube, one entire end of which is open, said tube adapted and constructed to be placed in the space between ties for radiating heat to the rails thereabove, and means for opening and closing said tube.

1,396,665. FEELER MECHANISM FOR LOOMS. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Oct. 15, 1920. Serial No. 417,187. 10 Claims. (Cl. 139—85.)



1. In a feeler mechanism for looms, the combination of a feeler supported to enter the shuttle on a detecting beat in a direction inclined to the longitudinal axis of the shuttle and which is held from movement along the filling carrier by engagement with the filling until substantial exhaustion thereof, and means supported in position to be engaged by an improperly boxed shuttle and moved by the shuttle into position to prevent movement of the feeler longitudinally of the shuttle when it is struck by a part of the improperly boxed shuttle on a detecting beat.

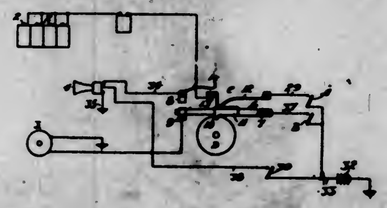
1,396,666. LUBRICATING SYSTEM FOR FLUID-COMPRESSORS. EDWARD A. RIX, Oakland, Calif. Filed Mar. 5, 1919. Serial No. 280,684. 14 Claims. (Cl. 184—18.)



1. In a fluid compressor a cylinder, a piston, a crank shaft, a crank case inclosing the same, an oil well in said case, a pan mounted below the cylinder, a plurality of fingers on the piston adapted to dip into the pan to transfer a portion of the oil to the cylinder wall, means for delivering oil from the well to the pan, an overflow member on the pan adapted to maintain a predetermined oil level therein, and directing flanges formed on the crank case adapted to direct the overflowing oil to bearings formed in the case for the support of the crank shaft.

1,396,667. COMBINATION LOCK AND SWITCH. IRWIN B. SIMMS, Stockton, Calif. Filed Dec. 30, 1918. Serial No. 268,800. 5 Claims. (Cl. 177—314.)

5. In a wiring system of the class described, an electric source of supply, an ignition circuit and a starter circuit having common returns, a switch in each circuit, a circuit breaker interposed in a lead of each circuit between the switch and place of ignition, and starting motor respectively, said circuit breakers each substantially representing a single pole, double throw switch including means for simultaneous operation and adapted to open the starting



circuit and ignition circuit simultaneously, an electrically actuated signal having a return in common with the ignition circuit and starter circuit, said circuit breakers including a pair of contacts disposed so that the free ends of each circuit breaker will engage one of said contacts and a common connection between said contacts and the other side of the signal.

1,396,668. WEIGHING-SCALE. WALTER S. SMITH, Columbus, Ohio, assignor to The Smith Scale Company, Columbus, Ohio, a Corporation of Ohio. Filed Dec. 23, 1918. Serial No. 267,936. 2 Claims. (Cl. 265—49.)

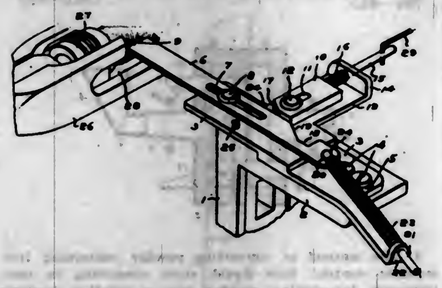


1. In a weighing scale, a scale bar, a poise and a poise hook carried thereby and adapted to be suspended from said bar being provided with notches on one edge, said bar and said hook being shaped to interlock with said notches and at the same time engage the opposite edge of the bar when the hook is in normally suspended position on the bar to prevent movement thereon but permitting movement when the hook is moved to abnormal position.

1,396,669. FEELER MECHANISM FOR LOOMS. ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed June 11, 1920. Serial No. 388,274. 11 Claims. (Cl. 139—85.)

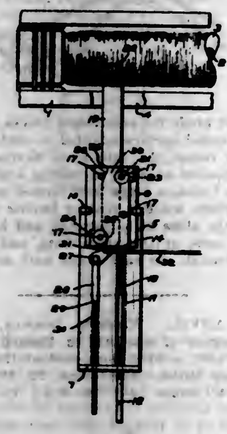
1. In a feeler mechanism for looms, the combination of a feeler which is mounted for movement toward and from the front of the loom and also in a direction longitudinally of the shuttle, a feeler controlling cam which tends to move the feeler longitudinally of the shuttle on a detecting beat as the feeler moves frontwardly, a spring

which acts on the feeler in opposition to the feeler controlling cam as the feeler moves frontwardly and effects



displacement of the cam by the feeler when a working supply of filling is present in the shuttle on a detecting beat.

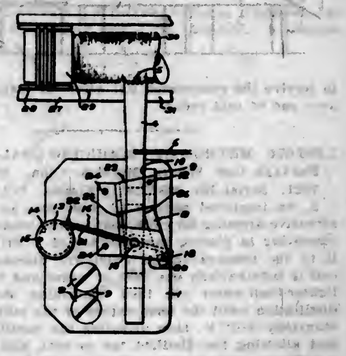
1,396,670. FEELER MECHANISM FOR LOOMS. ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed June 11, 1920. Serial No. 388,277. 13 Claims. (Cl. 139—85.)



1. In a feeler mechanism for looms, the combination of a feeler carrier mounted for movement toward and from the front of the loom, a feeler loosely mounted on the feeler carrier and having two cam surfaces one on each side of the feeler, rollers mounted on the feeler carrier at opposite sides of the feeler and normally engaging the cams and effecting lateral movement of the feeler relative to the feeler carrier when filling is substantially exhausted on a detecting beat.

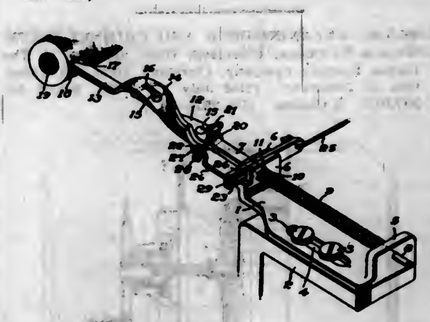
1,396,671. FEELER MECHANISM FOR LOOMS. ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed July 22, 1920. Serial No. 398,257. 13 Claims. (Cl. 139—85.)

1. In a feeler mechanism for looms, the combination of a feeler stand, a feeler loosely mounted on the stand, a feeler bearing upstanding from the feeler stand and having one portion for determining the feeling position of the feeler and another portion for determining the movement of the feeler longitudinally of the shuttle, a spring acting laterally against the feeler intermediate the ends of the feeler to hold it against one portion of the bearing when the feeler is in feeling position, and tending to move it against the other portion of the bear-



ing as the feeler is moved frontwardly and prevented from effecting such movement by engagement of the feeler with the filling on a detecting beat until substantial exhaustion thereof, and means for effecting replenishment of filling when the feeler is moved against the other portion of the bearing on a detecting beat.

1,396,672. FEELER MECHANISM FOR LOOMS. ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Nov. 27, 1920. Serial No. 426,700. 12 Claims. (Cl. 139—85.)



1. In a feeler mechanism for looms, the combination of a feeler having a flattened spirally twisted blade and mounted for movement toward and from the front of the loom, and means acting upon the spiral blade as the feeler is moved frontwardly on a detecting beat tending to turn the feeler about its longitudinal axis and prevented from effecting such turning movement by engagement of the feeler with the filling on a detecting beat until substantial exhaustion thereof.

1,396,673. COTTON-LINT COLLECTOR. ARTHUR STABLER, Los Angeles, Calif. Filed Nov. 27, 1920. Serial No. 426,823. 2 Claims. (Cl. 13—17.)

1. A lint collector comprising an endless moving screen, compressing rollers having said screen mounted on the

same, means for collecting lint between the flights of said screen, and an offtake from said screen arranged



to receive the compressed lint after the latter has passed over one of said rollers.

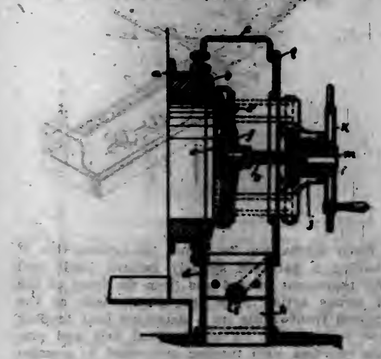
1,396,674. METHOD OF PRODUCING COAL-TAR PAINT. FERNAND GEO. WHITE, Meriden, Conn. Filed Aug. 19, 1921. Serial No. 493,725. 2 Claims. (Cl. 134—14.)

2. An improved method of producing an elastic, preservative dressing for cloth, leather and kindred materials, consisting in placing raw coal tar in a still and raising it to the temperature at which the discharge from the coil is substantially one part of water and three parts of lighter-than-water oil, then continuing the process of distillation until the temperature of the still reaches substantially 310° F., then arresting the distilling operation and allowing the distilled tar to cool, and then adding a sufficient amount of tar oil lighter than water to reduce the consistency of the mass to that of thin paint.

1,396,675. PROCESS OF MAKING POTASH ALUM. THOMAS H. WRIGHT, Los Angeles, Calif. Original application filed May 28, 1919, Serial No. 300,404. Divided and this application filed May 11, 1920. Serial No. 380,559. 2 Claims. (Cl. 23—13.)

1. A process of making potash alum, comprising treating an alkaline, aqueous, mineral potassium chlorid solution with sodium sulfate, rendering slightly acid, adding aluminum sulfate, and removing the potash alum thus formed from the mixture.

1,396,676. CLEANING-DOOR AND CHIMNEY-VALVE. WILBUR T. CLARK, Cleveland, Ohio, assignor to The Hanna Furnace Company, Cleveland, Ohio, a Corporation of Delaware. Filed July 21, 1920. Serial No. 397,913. 5 Claims. (Cl. 251—27.)



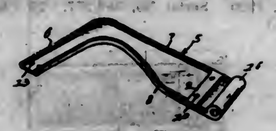
4. In a structure of the class described, the combination with a frame having a valve seat adapted to be associated with a stove, furnace or the like and afford lateral communication to the interior thereof, of a carrier, a valve-closure flexibly supported by the carrier in position to accommodate itself to the valve seat, a support whereon said carrier travels, and actuating means for operating said carrier and valve-closure, substantially as set forth.

1,396,677. ELECTRIC ROTATING FURNACE. CORNELIUS BAEK CORNELIUS, Stockholm, Sweden. Filed Mar. 27, 1920. Serial No. 369,236. 10 Claims. (Cl. 204—64.)



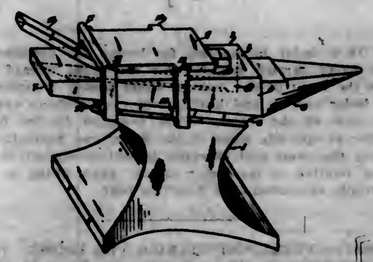
1. The method of converting powder containing free metallic content into liquid state consisting in continuously introducing powder into a rotating heating device separately discharging the free metallic content and continuously discharging the residues from said device.

1,396,678. BED-HINGE FOR AUTOMOBILE-TRUCKS. CHARLES H. CROMWELL, Georgetown, Ill. Filed May 12, 1921. Serial No. 468,902. 2 Claims. (Cl. 296—17.)



1. In a bed hinge for automobile trucks, a plate having a rib on its under surface adapted to contact an end rail of a chassis frame, the said plate having an angularly disposed extension adapted to overlie and be secured to a side of the frame, a hinge butt formed on the outer end of the said plate, a hinge member having flanges adapted to embrace the sides of a body sill and having ears embracing the ends of the hinge butt, and a pivotal pin extending through the said hinge butt and through the ears.

1,396,679. ANVIL. WILLIAM DORNAN, Los Angeles, Calif., assignor of one-half to Hasard & Miller, Los Angeles, Calif., a Firm composed of Henry T. Hasard and Herman Miller. Filed Sept. 22, 1919. Serial No. 325,543. 4 Claims. (Cl. 78—8.)



1. An anvil comprising an anvil body having a flat upper face and flat side faces, there being inclined mating channels in the side faces, a clamping plate having a flat lower face, arms extending from the clamping plate loosely against the side faces, and lugs extending from the arms into the channels; so that the clamping plate will be raised or lowered as it is moved forwardly or backwardly

1,396,680. PROPELLER. JACQUES B. FUNK, Baltimore, Md., assignor of one-half to Richard W. Cook. Filed Dec. 10, 1920. Serial No. 429,751. 7 Claims. (Cl. 170—159.)



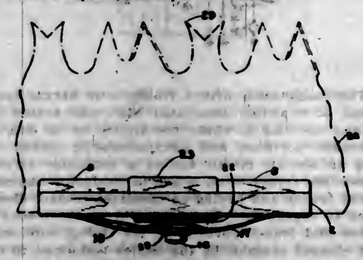
1. A propeller comprising a plurality of units each of which consisting of a flexible sheet having oppositely and angularly disposed blades at its ends, the units being provided with transverse slots at their longitudinal edges which receive the blades whereby to dispose the units in superposed relation.

1,396,681. CASTER FOR ANGLE-BAR FURNITURE. GLENN G. GREENE, Warren, Pa., assignor to G. G. G. Metal Stamping Company, Warren, Pa., a Corporation of Pennsylvania. Filed Feb. 10, 1921. Serial No. 443,925. 6 Claims. (Cl. 16—4.)



3. The combination with an angle frame, of a caster holder in which a caster is mounted, said caster holder comprising a base plate and a cage attached to said base plate, and a single plate extending across the open side of said angle member for frictionally engaging said cage, said plate having bent over ends adapted to be firmly pressed into engagement with the flanges of the angle frame.

1,396,682. SAW-DRESSING TOOL. CHARLES GUSTAFSON, Instanter, Pa. Filed June 14, 1920. Serial No. 388,907. 4 Claims. (Cl. 76—47.)



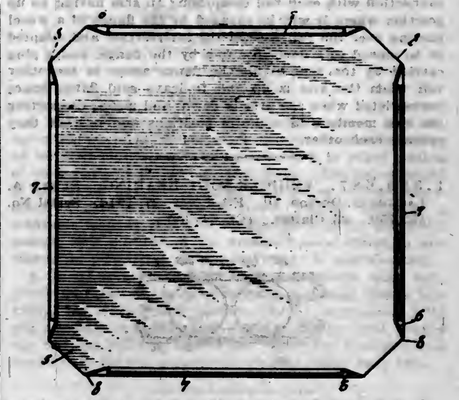
1. In a saw dressing tool, a plate, a rail terminating one edge of said plate, spaced alined leaves terminating the opposite edge of said plate, a second plate adjustably secured to said first named plate, a head terminating said second plate and disposed parallel to and overlapping the adjacent ends of the said leaves, and a ledge secured to the first named plate adjacent the said head and for coöperation therewith.

1,396,683. PLANTER. WILLIAM J. HALL, Ringgold, La. Filed May 27, 1920. Serial No. 384,667. 8 Claims. (Cl. 97—35.)



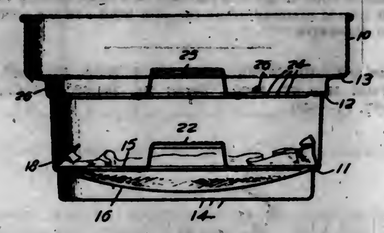
3. A planter including a main frame, handles attached thereto, a tie rod extending between the handles, a plow carried by said frame, and means for adjusting the depth of said plow, said means including arms pivotally attached to the frame, a roller carried by said arms, a rack forked at its lower portion, said forks being pivotally attached to said arms, whereby the rack is located substantially on the center line of the planter, two substantially parallel plates supported adjacent to the rack, a spring pressed pawl slidably carried by said plates and adapted to engage the rack, a trigger pivotally mounted on said plates and pivotally attached to said pawl, the free end of the trigger being in close relation to said tie rod.

1,396,684. BAKE-PAN. WILLIAM C. HANSEN, Rock Island, Ill. Filed June 20, 1921. Serial No. 479,059. 2 Claims. (Cl. 53—6.)



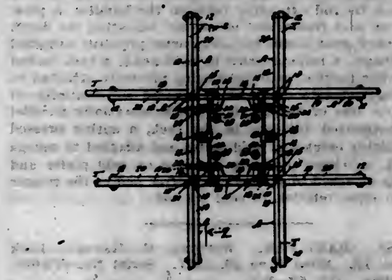
1. A baking pan comprising a body portion having side walls formed integral therewith, means forming a part of the side walls for reinforcing the same, and said pan having its corners cut away.

1,396,685. COFFEE-MAKING DEVICE. John D. Houck, Chicago, Ill. Filed June 27, 1921. Serial No. 480,785. 3 Claims. (Cl. 53—3.)



1. A coffee making device comprising a receptacle having a perforated bottom, means to maintain a perforated disk in spaced position above the perforated bottom, and means to support a fabric from the periphery of the perforated disk.

1,396,686. SHOCKLESS RAIL-CROSSING. Evelyn L. V. Howell, Los Angeles, Calif., assignor of one-half to Herman M. Schroedter, Los Angeles, Calif. Filed June 20, 1921. Serial No. 478,836. 15 Claims. (Cl. 246—273.)



1. In combination with two intersecting rails having flange spaces at the intersection, a movable member in connection with each rail comprising an arm having an up position where it will be engaged by the flange of a wheel passing over the rail toward the intersection and adapted to be moved to a down position by the flange, and a plug carried by the arm to fill the flange space in the other rail when the arm is up and to leave said flange space unrestricted when the arm is down, and means connecting the two members in opposite positions and so that they operate each other.

1,396,687. VEHICLE-BODY BEARING. Elmyr A. Laughlin, Oregon, Ill. Filed Nov. 27, 1916. Serial No. 133,759. 33 Claims. (Cl. 64—65.)



1. A bearing device comprising upper and lower housings or bearing-plates vertically movable the one with relation to the other and having plain bearing faces, a plurality of rollers interposed between said plates and means on said plates and said rollers to maintain the rollers constantly spaced at the same distance apart and constantly centered with respect to the application of the load.

1,396,688. VEHICLE-BODY BEARING. Elmyr A. Laughlin, Oregon, Ill. Filed Jan. 2, 1917. Serial No. 140,138. 48 Claims. (Cl. 64—66.)



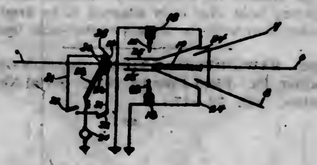
1. In a car mounting, a truck; a car body pivotally mounted thereon to permit turning of the truck relatively thereto; and means interposed between said body and truck arranged to cause the weight of the car to effect turning of the truck relatively to the car body upon change in elevation of one side of the truck, substantially as described.

1,396,689. VEHICLE-BODY BEARING. Elmyr A. Laughlin, Oregon, Ill. Original application filed Jan. 2, 1917, Serial No. 140,138. Divided and this application filed Apr. 9, 1918. Serial No. 227,461. 5 Claims. (Cl. 64—63.)



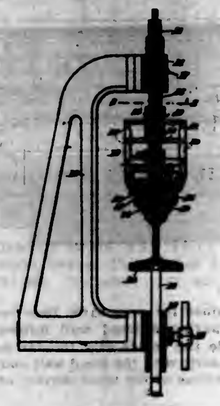
1. In a car truck, the combination of upper and lower bearing members having bearing surfaces; a rotatable bearing member arranged between and engaging with said surfaces; and walls extending from said surfaces toward each other inclosing the upper and lower portions of said bearing member, said walls being slightly flaring, substantially as described.

1,396,690. TROLLEY-WIRE SWITCH. Milos N. Mikulic, Kansas City, Mo. Filed Sept. 29, 1919. Serial No. 327,193. 2 Claims. (Cl. 191—38.)



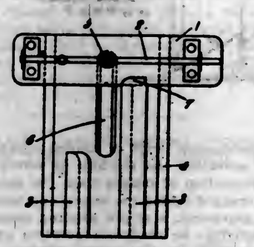
1. The combination with a trolley wire having branch portions, of a switch associated with said branch portions and operable to shunt the trolley on to either of said branch portions, and electromagnetic means comprising an electric circuit having a conductor arranged alongside the trolley wire, a second conductor associated with the trolley and having an insulated contact element adapted to engage said first conductor as the trolley approaches said branch portions of the trolley wire, and a switch element operable by the trolley motorman to close the circuit through said conductors to actuate said trolley switch.

1,396,691. ART OF ORNAMENTING GLASS ARTICLES. John A. Milliken, Bayonne, N. J., assignor to John E. Marsden, Atlantic City, N. J. Filed Dec. 2, 1916. Serial No. 134,747. 14 Claims. (Cl. 51—278.)



1. An improvement in the art of ornamenting hollow glass articles comprising inserting a chuck into the article without contacting therewith, temporarily attaching the chuck and the article by an interposed material capable of being applied in molten condition, subjecting the article to the action of an ornamenting apparatus by connecting the chuck and the attached article to said apparatus, and finally changing the physical condition of the interposed material to permit of separation of the chuck and the attached article.

1,396,692. CLOTHES RACK OR HANGER. James Row and Charles Frederick Smith, Holborn, London, England. Filed Mar. 24, 1921. Serial No. 455,267. 5 Claims. (Cl. 211—16.)



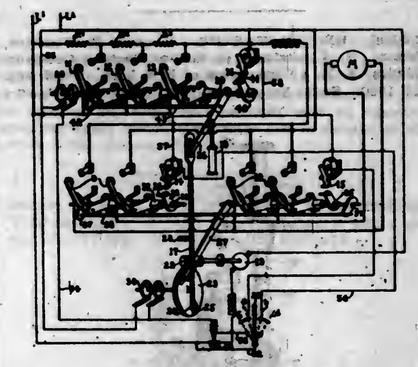
1. In a clothes rack the combination of a base board, a carrier member slidable in said base board, a sliding pivoting and supporting pin operating between said carrier member and said base board so that on said carrier member being drawn out to the limit of its travel in relation to said base board it can be turned at right angles to said base board, a hanging bar carried by and longitudinally arranged in relation to said sliding member and a stop and two supports all carried by the base board the former to retain the sliding member in its position at right angles to the base board and the latter to support said sliding member when in said swung around position.

1,396,693. NOVELTY POST-CARD. Harry O. Rugh, Chicago, Ill. Original application filed Aug. 21, 1919, Serial No. 318,865. Divided and this application filed Jan. 21, 1920. Serial No. 353,050. 11 Claims. (Cl. 120—74.)



1. As a new article of manufacture, a postcard comprising two dished disk members rotatably secured together near an edge thereof, a third dished disk member non-rotatably secured to one of the aforesaid disks, the said third member providing an outer surface for a suitable mailing inscription and an outer surface or one of the other disks providing the other surface for a suitable mailing inscription.

1,396,694. CIRCUIT-CONTROLLER. William C. Stevens, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 8, 1920. Serial No. 421,451. 14 Claims. (Cl. 200—92.)



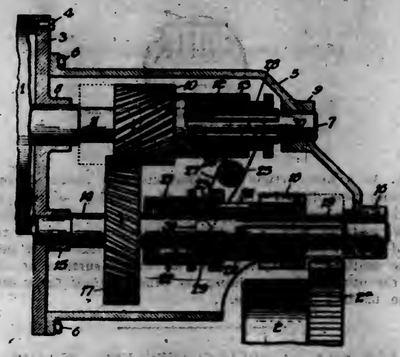
1. In a circuit controller, the combination with cooperating contacts, of operating means therefor including an element movable in a given direction to effect biasing of said contacts for engagement while effecting restraint of the same against engagement pending reverse movement of said element, said means further including a rotatable member rotatable unidirectionally for positively moving said element in the first-mentioned direction and thereafter permitting reverse movement of said element.

8. In a circuit controller, the combination with relatively movable contacts, of contact operating means providing for locking said contacts out of engagement with one another, thereafter for biasing said contacts toward one another while so locked and finally for releasing said contacts to permit engagement thereof under such bias.

1,396,695. ENGINE-STARTER. Maurice P. Whitney, Elmira, N. Y., assignor to Eclipse Machine Company, Elmira, N. Y., a Corporation of New York. Filed Aug. 25, 1920. Serial No. 406,088. 17 Claims. (Cl. 74—7.)

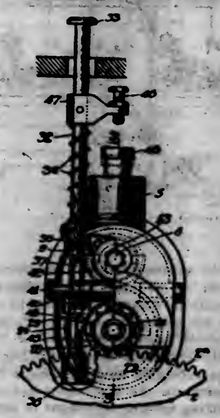
1. An engine starter drive comprising driving and driven shafts, a pinion mounted on the driving shaft for

rotary movement therewith and automatic longitudinal movements thereon in both directions, a gear mounted on the driven shaft and meshing with the pinion, a driving member adapted to engage a member of the engine to be started and mounted on the driven shaft for rotary



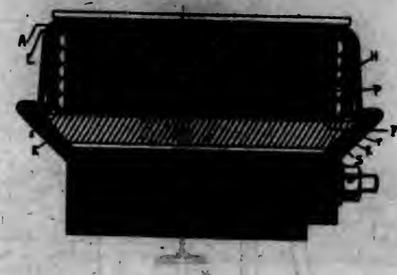
movement therewith and longitudinal movement thereof for engagement with such engine member and disengagement therefrom, and means for transmitting the longitudinal shifting movements of the pinion to the driving member.

1,396,696. ENGINE-STARTER. MAURICE P. WHITNEY, Elmira, N. Y., assignor to Eclipse Machine Company, Elmira, N. Y., a Corporation of New York. Filed Aug. 25, 1920. Serial No. 406,024. 14 Claims. (Cl. 74—7.)



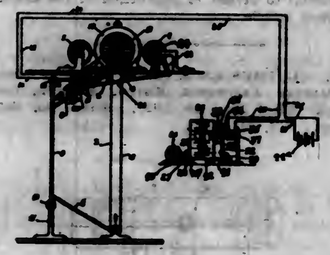
1. An engine starter drive comprising a driving shaft, a driven shaft, reduction gearing between these shafts including a gear on the driven shaft and a pinion mounted on the driving shaft for rotary movement therewith and longitudinal movement thereof, said pinion being normally disengaged from the gear but adapted to be manually operated for engagement therewith, a driving member mounted on the driven shaft for rotary movement therewith and longitudinal movement thereof for engagement with a member of the engine to be started and for disengagement therefrom, and means for transmitting the longitudinal shifting movements of the pinion to the driving member.

1,396,697. PNEUMATIC TIRE. EDUARD ERBURG, Pilsen, Austria. Filed July 9, 1918. Serial No. 775,062. 6 Claims. (Cl. 152—13.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



2. An air-container for pneumatic tires comprising a tubular member having a tread wall formed of textile fabric and flexible ties inside said tubular member connected by textile fabric with the tread wall and connecting the same with portions of the inner surface of said tubular member.

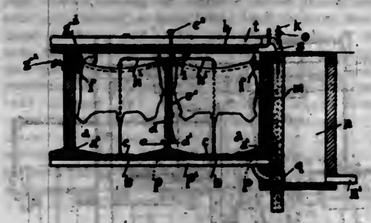
1,396,698. TARGET APPARATUS. CLARK E. CARTER, Montreal, Quebec, Canada, assignor of one-half to Allan B. McBeath, Montreal, Canada. Filed Sept. 14, 1915, Serial No. 50,636. Renewed Aug. 9, 1918. Serial No. 249,185. 19 Claims. (Cl. 124—15.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In combination with a cinematographic machine means for operating the machine, a screen arranged to receive a projection of images from the machine, a movable wall arranged behind the screen and balanced to have a rockable movement, a screen winding means and rotary means adapted to be rendered operative by the rocking of the wall to cause the screen winding means to be brought into operation.

1,396,699. APPARATUS FOR TREATING HIDES. ARTHUR NEAL WALKER, Bolton, England. Filed Feb. 4, 1920. Serial No. 356,350. 4 Claims. (Cl. 149—10.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. In an apparatus for the treatment of hides in the manufacture of leather, pits each constructed with a central partition, the top of which is at a lower level than the boundary walls of the pit and below the level of the liquid therein, said partitions being provided with an aperture at the bottom thereof, and means for introducing a fluid under pressure into each section of the pit to enable



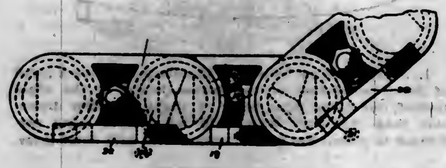
a circulation of liquid to be effected from one section to the other, and a reverse circulation of the liquid at will.

1,396,700. HANDY BOOK AND TRAY STAND. ANNA G. GREENWOOD, Denver, Colo. Filed Apr. 3, 1920. Serial No. 371,083. 2 Claims. (Cl. 45—57.)



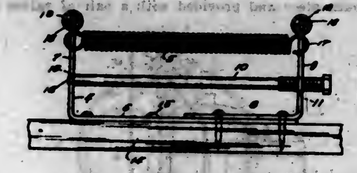
1. The combination in a set for the purpose described of a weighted foot, affixed tubular upright body with hand set screw in top of tubular body, as means of holding a telescoping upper tubular neck into position, a side hinged table and bracket on upright body; an outer end fixed T-head on tubular neck, as means for holding a swivel head bolt, a lamp neck and electric fixture attached to upper end of swivel bolt, as means for holding an adjustable light, a spring washer, interposed on swivel bolt to separate swivel T and T-head; a swivel T with studs on side and bottom, to which may be screwed a ball nut, which fits into joint or socket attached to table; a hand nut also on studs to fasten parts to position, parts as stated as a means of adjusting table to different positions and attached to table a rod on which slides notched spring clamps, forming means for holding a book, or means for supporting table.

1,396,701. CHAIN. CARL W. GREGORY, Petaluma, Calif. Filed Dec. 18, 1919. Serial No. 345,870. 4 Claims. (Cl. 74—32.)



1. In a chain, the combination of links having overlapping ends, lugs carried by each of said overlapping ends, said lugs having vertical flat faces, wear blocks having vertical faces adapted to abut said lugs and said wear blocks having rolling contact with each other.

1,396,702. SCRAPER. GEORGE E. VON HOFFMANN, Evanston, Ill. Filed Nov. 8, 1920. Serial No. 422,582. 3 Claims. (Cl. 15—2.)



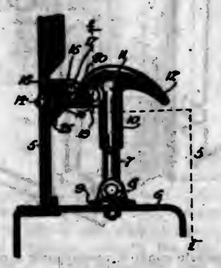
3. In a cleaner, the combination of a base having two upwardly projecting arms, means for adjusting one of said arms, and springs extending longitudinally of said base and having their ends connected to said arms.

1,396,703. CARLINE. FRED MATHEWS, Chicago, Ill. Filed Jan. 26, 1920. Serial No. 354,071. 10 Claims. (Cl. 108—5.6.)



1. The combination with a channeled carline, of an end-plate engaging the end edges of said carline and secured thereto, said plate being greater in width than the carline and having its ends extending laterally beyond the sides of the same, and provided with an inwardly extending flange which laps under and is secured to the bottom of the channel of said carline.

1,396,704. LATCH FOR HOODS OF AUTOMOBILES. FRED MATHEWS, Chicago, Ill. Filed Apr. 9, 1921. Serial No. 459,840. 10 Claims. (Cl. 292—114.)

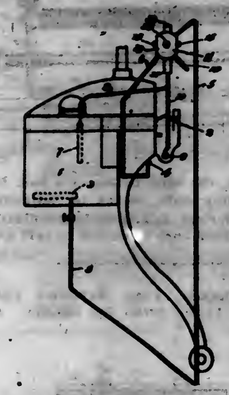


1. A keeper for a latch comprising parallel lugs a support for the same, and a rocking member journaled in said lugs one end of which is adapted to be engaged and moved by the said latch to cause its opposite end to engage the support of the lugs.

1,396,705. GAS-CONTROLLING DEVICE FOR LINOTYPE MACHINES. CHARLES SYLVESTER, Winnipeg, Manitoba, Canada. Filed Apr. 16, 1918. Serial No. 228,965. 7 Claims. (Cl. 22—71.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

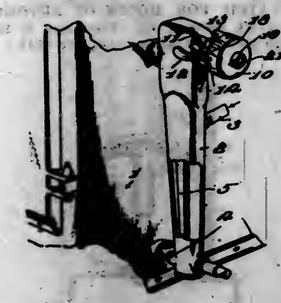
1. In a type setting machine, the combination with a metal pot, the mouth piece thereof, the gas pipe leading

to the pot and the mouth piece and the mercury pipes associated with the pot and mouth piece and a gas supply pipe, of a gas controlling device inserted between the gas supply pipe and the gas and mercury pipes of the pot and mouth piece and provided with a pair of valves and



internally arranged such that the varying pressure of the mercury in the pot mercury pipe controls, through one valve, the feed of gas from the supply pipe to the pot gas pipe and the varying pressure of the mercury in the mouth piece mercury pipe controls through the other valve the feed of gas from the supply pipe to the mouth gas pipe.

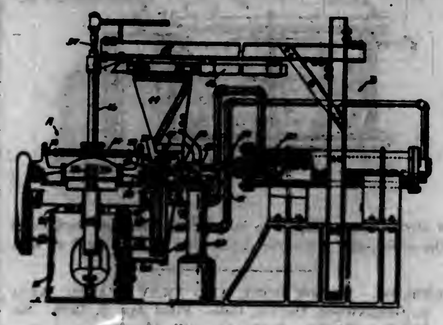
1,396,706. THERMOSTAT FUEL-REGULATING DEVICE FOR GAS-STOVES. BENJAMIN E. MEACHAM, Lorain, Ohio, and CHARLES MUNSNER, Chicago, Ill, assignors to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed Oct. 2, 1920. Serial No. 414,333. 12 Claims. (Cl. 236—15.)



1. A thermostatic control, comprising a regulating shaft, an indicator wheel movable thereon, a locking member carried by the shaft and held against relative rotation thereon, the indicator wheel and the locking member interlocking, and means for holding the wheel and locking member in interlocking positions, for the purpose described.

1,396,707. PNEUMATIC-TIRE-REMOVING APPARATUS. HARRY A. MILLER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 23, 1919. Serial No. 332,601. 40 Claims. (Cl. 18.2.)

1. An apparatus for removing the forming core from a tire casing comprising, a support for a tire and core, a core removing mechanism movable with respect to the support, means for holding the tire upon the support



against the action of the core removing mechanism, and means for actuating the core removing mechanism.

1,396,708. HAIR-WAVER. HARRY NATKIEL, New York, N. Y., assignor to The Marcelette Hair Curler Co., Inc., New York, N. Y., a Corporation of New York. Filed Feb. 3, 1921. Serial No. 442,110. 7 Claims. (Cl. 132—41.)



5. The herein described hair waver comprising a single strip of spring material formed into two legs connected to each other at a sharp angle, one portion of each leg being of flat material while another portion thereof is of corrugated material, the flat and corrugated portions being substantially co-extensive.

1,396,709. METHOD OF OBTAINING SAMPLES FROM A BALLOON WHILE INFLATED. RALPH H. UPSON, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 8, 1919. Serial No. 281,414. 11 Claims. (Cl. 244—3.)

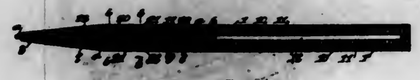


1. A gas bag for a balloon or the like comprising a panel of fabric consisting of two layers joined at the edges thereof, the outer layer being of slightly smaller dimension than the inner layer, said inner layer being perforated to permit the gas to contact with said outer layer.

1,396,710. ATTACHMENT TO SCREW-FEED PENCILS. AMPHOUX FLEMING, Alexandria, Va. Filed Jan. 26, 1921. Serial No. 440,116. 7 Claims. (Cl. 120—18.)

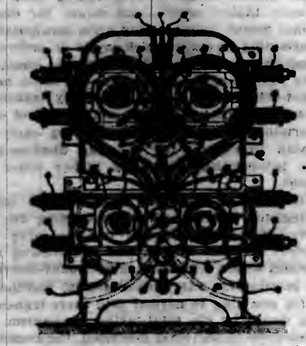
5. A pencil holder of the character described comprising a casing, a tapered body rotatably mounted in the

forward end of the casing, the said body being apertured for the passage of the pencil lead therethrough, the said casing having an internal screw threadway in the rear end thereof, a trough-like lead receiver that extends from the front end of the threaded portion of the casing into the rotatable body member, and in alinement with the lead passage, a plunger device including a head having positions for engaging the screw way in the casing, the said plunger and the threadway being disconnected, when the plunger is adjusted to a predetermined position, whereby the said plunger is adapted for being freely pulled directly back to the limit of its movement, whereby to leave the receiver free for the reception of a new lead, a magazine rotatably mounted within the casing and



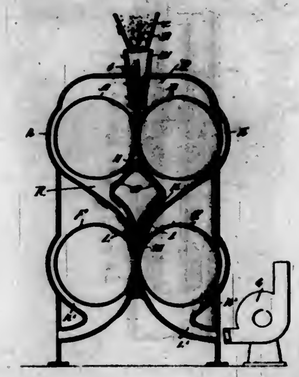
adapted, when rotated, to feed the leads into the lead receiver, when the latter is empty, and the plunger is drawn back, and connections that join the rotatable casing member and the magazine, whereby rotation of the magazine is effected, when the said casing member is rotated with respect to the receiver, the said magazine including means for holding the leads in position for dropping their full length into the receiver, when the lead is to be dropped is brought into alinement with the open portion of the trough-like receiver and in position for being engaged by the follower device, when the latter is adjusted for engagement with the feed screw in the casing.

1,396,711. APPARATUS FOR PULVERIZING ORE AND THE LIKE. GEORGE JOHNSTON, Manchester, England. Filed Aug. 15, 1921. Serial No. 492,468. 11 Claims. (Cl. 83—12.)



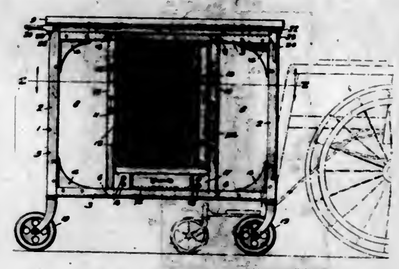
1. In pulverizing apparatus, a pair of crushing rolls and means arranged adjacent the nip of the rolls for guiding air-propelled material thereto and means for propelling said material and rotating said rolls at substantially the same speed.

1,396,712. METHOD OF CRUSHING. GEORGE JOHNSTON, Manchester, England. Filed Aug. 27, 1921. Serial No. 495,976. 10 Claims. (Cl. 83—12.)



1. In the art of crushing, the step of driving a pair of crushing rolls at a peripheral speed of at least two thousand feet per minute and propelling material to said rolls at a speed substantially corresponding thereto.

1,396,713. WHEELING SERVICE-CART. LOUIS H. KAISER, Cincinnati, Ohio, assignor to The John Van Range Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 16, 1919. Serial No. 331,074. 1 Claim. (Cl. 45—17.)

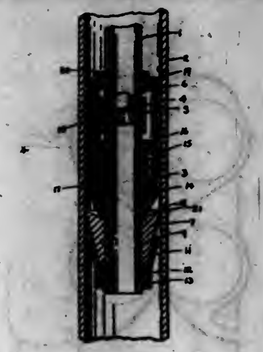


A wheeling service-cart comprising a pair of angle-iron side frames, having wheels at the opposite base ends, a table fixed to the top of said side frames, a compartment casing mounted centrally between the side frames below the table and of a width dimension less than said side frames, and with said side frames forming open areas at opposite sides of said casing, said compartment casing interiorly sub-divided to provide a heated compartment having an entrance opening through one side of the casing, and a cold compartment opening through an opposite side of the casing, and a heater for said heated compartment.

1,396,714. PUMP-PLUNGER. ROBERT E. CARMICHAEL, Houston, Tex. Filed July 15, 1920. Serial No. 396,517. 7 Claims. (Cl. 103—63.)

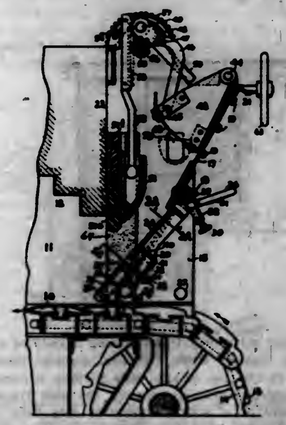
1. In a pump plunger, an expanding cup comprising a frusto-conical tubular member longitudinally divided on planes tangent to the inner face thereof, a cup-shaped

washer to retain said sections together, a recessed upper face on said cup, a conical expanding member fitting



therein, and resilient means bearing on said expanding member to automatically expand said cup during the operation of the plunger.

1,396,715. FURNACE-HOPPER. WILLIAM LLOYD, Hazleton, Pa., assignor to Coze Traveling Grate Company, Port Carbon, Pa., a Corporation of Pennsylvania. Filed Feb. 26, 1918. Serial No. 219,255. 23 Claims. (Cl. 110—108.)

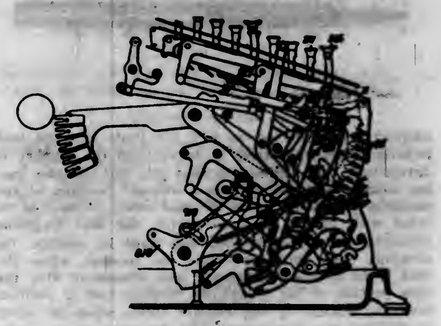


1. In a furnace hopper, a feed plate downwardly inclined toward the furnace grate, and an air cooled protective igniting plate overlying the lower portion of the feed plate in the region of the grate.

16. In a hopper, a regulating gate for varying the depth of the fuel bed admitted to the grate, vertically arranged rack bars suspending the said regulating gate, horizontally arranged spindles extending from opposite ends of the hopper side walls, pinions thereon meshing with the rack bars, worm wheels on said spindles, and hand operated worm for driving said worm wheels independently whereby the regulating gate may not only be lifted and lowered, but its opposite ends independently adjusted vertically to insure alinement between the lower edge of the regulating gate and the surface of the grate.

22. In a hopper, a pair of side standards, a hopper body supported thereby, poke hole apertures in the side standards opening to the hopper chamber, and external cups at said poke holes serving to prevent the escape of fuel through the poke holes during the passage thereof through the hopper.

1,396,716. ADDING-MACHINE. JOHN MAGNUS, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 3, 1919. Serial No. 274,891. 18 Claims. (Cl. 235—60.)



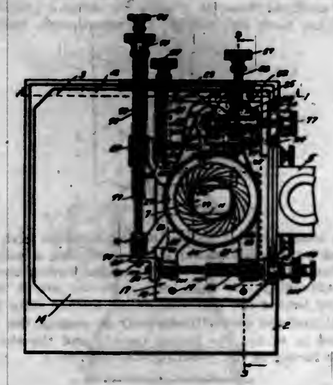
1. In a machine of the class described, the combination with register wheels, means for turning the same, manipulative amount-determining means, means automatically effecting one-step movement of a higher order wheel upon turning of the next lower wheel between zero and nine, of additional means normally intercepting such action in one or more higher orders, and means for disabling said additional means operable only upon manipulation of amount-determining means in such order or orders.

2. In a machine of the class described, the combination with register wheels, means for turning the same, manipulative amount-determining means, and carry transmitting devices between wheels; of means, under control of said amount-determining means, for intercepting carry-transmissions, with provisions for effecting disablement of lower order intercepting means by higher order intercepting means.

3. In a machine of the class described, the combination with register wheels, means for turning the same, manipulative amount-determining means, carry transmitting devices between wheels, and total-taking mechanism; of means, under control of said amount-determining means, for intercepting carry-transmission, together with provisions for resetting to normal said carry-transmission intercepting means by the total-taking mechanism.

5. In a machine of the class described, the combination with register wheels, racks to turn the same, amount-keys for measuring rack-movements, actuator bars for the racks with provisions for one-step independent movement of the latter, means normally preventing such movement and tripped by wheels turning between zero and nine; of a supplemental member or members normally preventing the independent rack-movement in a higher order or higher orders, and an amount-key-operated member or members to trip said supplemental member.

1,396,717. ADJUSTABLE IRIS AND CURTAIN FOR CAMERAS. JOHN E. LEONARD, Los Angeles, Calif., assignor, by mesne assignments, to Mitchell Camera Co., a Corporation. Filed Dec. 4, 1919. Serial No. 342,513. 11 Claims. (Cl. 95—65.)



1. A camera having an iris and a plurality of curtain forming elements interposed between the photographing lens and the exposure aperture.

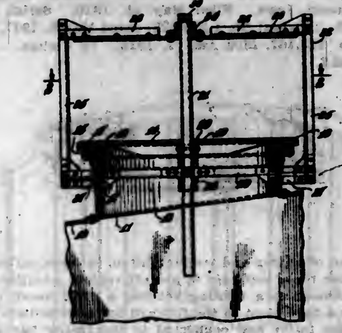
1,396,718. APPARATUS FOR CATALYSIS. ARTHUR A. BACKHAUS, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed June 24, 1916, Serial No. 241,652. Renewed June 5, 1919. Serial No. 302,045. 13 Claims. (Cl. 23—28.)



1. In combination, a body of catalytic material in the form of a granular conductor of electricity, means for passing a current of electricity through the same to maintain the catalyzer at an elevated temperature, and means for varying the resistance of the granular material to the passage of the electric current.

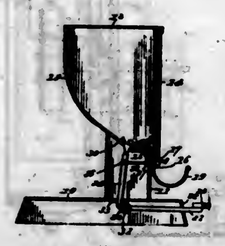
1,396,719. EXPLOSION-HATCH FOR OIL-TANKS. BURTON E. HULL, Houston, Tex., assignor to The Texas Company, a Corporation of Texas. Filed Jan. 30, 1920. Serial No. 355,278. 14 Claims. (Cl. 220—25.)

1. The combination with a closed tank having a hatchway, of a hatch for closing the hatchway, a rod attached to the hatch, a guide frame secured to the tank and having guide bearings for the rod to allow the hatch to open and close as the rod slides in the guide bearings, and means disposed above said hatch and secured to said tank for limiting the outward movement of said hatch by engagement therewith.



13. The combination with a closed tank, a cylindrical projection extending vertically upward therefrom forming a hatchway, and means associated with the upper periphery of said cylindrical projection for forming an annular groove, containing a sealing material, of a movable hatch adapted to rest upon the upper periphery of said cylindrical projection and having a downwardly extending flange entering into the sealing material in said annular groove to form an effective seal, and also having a downwardly extending peripheral flange disposed beyond the outer wall of said annular groove to prevent the entrance of water therein, means for guiding the vertical movement of said movable hatch, and rigid stop means disposed above said hatch and adapted to be engaged thereby for positively limiting the upward movement thereof.

1,396,720. STRAW-DELIVERING MECHANISM. JOHN J. MOUAWAD, Newark, N. J., assignor of one-half to Adbo Nassour, Newark, N. J. Filed May 26, 1920, Serial No. 384,429. Renewed July 20, 1921. Serial No. 486,185. 3 Claims. (Cl. 206—21.)



3. In a straw delivering mechanism, a hopper having an inclined bottom and a depending partition at the front edge of the said bottom, the said hopper having a front wall, the lower part of which is parallel to and spaced from the partition to produce a clearance for the passage of straws, the said wall having a discharge opening at the lower edge thereof, a door pivotally mounted in position to guard said opening, plungers mounted to operate in conjunction with the lowermost straw at the discharge opening, arms to which the plungers are pivotally connected, fingers carried by the said arms and projecting into the hopper for agitating the straws, a shaft on which the arms are carried, an operating arm for partially rotating the shaft, a spring for returning the parts to normal position, means for oscillating the arms, and means for holding the oscillated means against movement.

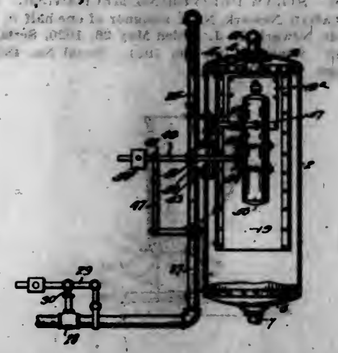
REISSUES.

15,219. TRACTOR-BINDER HITCH. Joseph W. Gamble, Boone, Iowa. Filed May 31, 1919. Serial No. 301,100. Original No. 1,238,428, dated May 8, 1917, Serial No. 113,467, filed Aug. 7, 1916. 10 Claims. (Cl. 280—33.7.)



7. In an offsetting and steering hitch, in combination, a forward bar for attachment to a draft vehicle, a trailer bar for attachment to a trailing vehicle, a draft reach connected by a fixed pivot to the forward bar intermediate the ends of the latter and connected to the trailer bar at a point spaced from the pivot and thereof, and means for steering and offsetting the draft and trailing vehicles relatively comprising a movement translating member connected by a fixed pivot to the draft reach intermediate its ends and extending at either side thereof, a bar pivotally connected to the trailer bar and to the movement translating member at the same side of the reach, and a bar pivotally connected at one end to the movement translating member on the opposite side of said reach and at its other end to said forward bar.

15,220. OIL, GAS, AND SAND SEPARATOR. David G. Lorraine, Los Angeles, Calif. Filed July 16, 1921. Serial No. 486,317. Original No. 1,373,004, dated Apr. 5, 1921, Serial No. 356,488, filed Feb. 5, 1920. 10 Claims. (Cl. 183—39.)



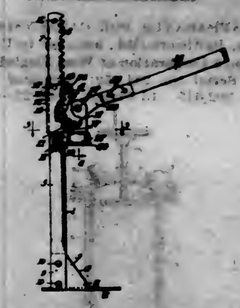
1. In an apparatus for separating gas and oil from oil wells comprising a receptacle, a vertical partition arranged in the receptacle and terminating short of the top and bottom of the receptacle, and means arranged between the said partition and a contiguous wall of the receptacle for introducing the oil from the well whereby the oil is caused to flow downwardly and around the lower end of the partition and rise on the opposite side and the gas that freely escapes from the oil rising to the top of the receptacle and collecting above the upper end of the partition, said means including an inlet oil tube arranged in the upper part of the receptacle, said tube having a surrounding discharge sleeve with a deflecting bottom plate for discharging the oil toward the receptacle wall.

15,221. CONCRETE CONSTRUCTION. Ralph A. Mesmer, Kansas City, Mo. Filed Jan. 14, 1922. Serial No. 534,622. Original No. 1,380,866, dated Oct. 2, 1918, Serial No. 329,690, filed Mar. 26, 1919. 5 Claims. (Cl. 72—101.)



1. In concrete construction, the combination with a cementitious body of an anchor strip comprising a solid strip lying along the surface of said body and having anchoring means extending into said body, a facing and a tie-piece extending behind the rear side of the anchor strip and between it and the cementitious body to engage the anchor strip and to secure the facing thereto and thereby to secure the facing to the cementitious body.

15,222. BOTTLE-CAPPER. Harold G. Rice, Chicago, Ill. Filed Sept. 10, 1921. Serial No. 499,541. Original No. 1,376,583, dated May 3, 1921, Serial No. 437,004, filed Nov. 29, 1920. 6 Claims. (Cl. 226—84.)

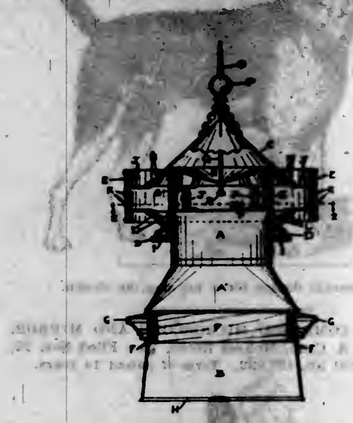


1. In a bottle capper, a rider fashioned from a single plate formed into a rear wall and sides having first and second extensions, the first extension having a notch in its lower edge, the notch defining an inner wing prolonged transversely of the rider into engagement with the second extension, the second extension having a notch in its upper edge, the sides being provided at their forward edges with ears located above the extensions, and a securing device connecting the ears; a frame comprising a rack received slidably in the space defined by the rear wall, the sides, the inner wing and the ears; a lever located between the extensions and fulcrumed thereon, the lever including a segment meshing with the rack, the notch in the second extension exposing the rack and segment at their place of meshing, to provide for the egress of dirt, the lever being in contact with the extension at a point opposite to said notch; and a capping head carried by the extensions.

15,223. VENTILATING CUPOLA FOR BARNS AND THE LIKE. Herman Steen, Fairfield, Iowa, assignor to The Louden Machinery Company, Fairfield, Iowa. Filed July 30, 1921. Serial No. 493,720. Original No. 1,313,826, dated Aug. 12, 1919, Serial No. 262,850, filed Nov. 15, 1918. 7 Claims. (Cl. 98—4.)

7. In combination with a vertically disposed ventilating flue having a cone shaped cap placed a distance above its

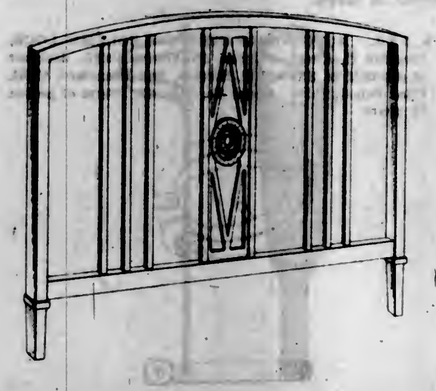
upper end and an outer band surrounding the upper end of the flue and the lower edge of the cap at a distance therefrom, of an inner band interposed in the space between the outer band and the flue, said inner band being substantially right angular in cross section and the vertex of the band being set toward the flue with a space between them; a series of radially disposed brackets having their inner edges secured to the flue and their outer edges



connected to the inner band, and a series of angularly shaped braces with horizontally disposed sides having upwardly and downwardly diverging ends; the downwardly diverging ends being secured to the aforesaid brackets; their upwardly diverging ends being connected to the cap and their central portions connected to the outer band, said braces thus supporting the cap and the outer band in position by their attachment to the brackets.

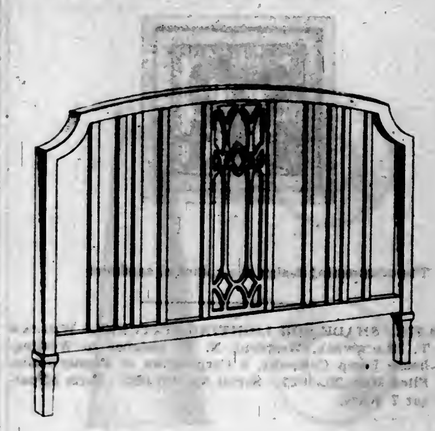
DESIGNS.

59,572. BEDSTEAD END FRAME. Frank Anderson, Buffalo, N. Y., assignor to Barcalo Manufacturing Company, Buffalo, N. Y. Filed Mar. 8, 1921. Serial No. 449,539. Term of patent 3½ years.



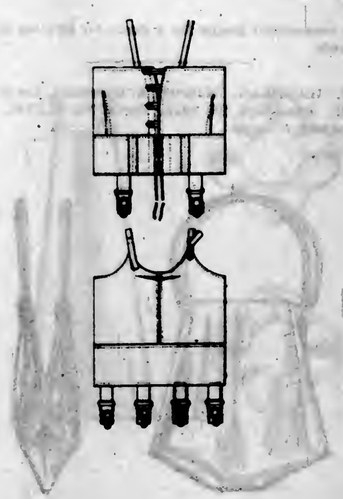
The ornamental design for a bedstead end frame, substantially as shown.

59,573. BEDSTEAD END FRAME. Frank Anderson, Buffalo, N. Y., assignor to Barcalo Manufacturing Company, Buffalo, N. Y. Filed Mar. 8, 1921. Serial No. 449,540. Term of patent 3½ years.



The ornamental design for a bedstead end frame, substantially as shown.

59,574. COMBINATION BRASSIÈRE-GIRDLE. Fredericka L. Bannink, Atlantic City, N. J. Filed July 20, 1921. Serial No. 486,316. Term of patent 14 years.



The ornamental design for a combination-brassière-girdle as shown.

59,575. SHRINE. FRANK BIENKOWITZ, Winooski, Vt. Filed Mar. 7, 1921. Serial No. 450,490. Term of patent 3½ years.



The ornamental design for a shrine, as shown.

59,576. SHADE FOR LIGHTING-FIXTURES. WILLIAM T. BLACKWELL, Westfield, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Mar. 30, 1921. Serial No. 457,065. Term of patent 7 years.



The ornamental design for a shade for lighting fixtures, as shown.

59,577. HANDBAG. MARJORY A. BOETHING, Los Angeles, Calif. Filed Sept. 23, 1920. Serial No. 412,357. Term of patent 7 years.



The ornamental design for a handbag, as shown.

59,578. TOY DOG. ADOLPHE M. BUSSON, Baltimore, Md. Filed Apr. 1, 1921. Serial No. 457,220. Term of patent 14 years.



The ornamental design for a toy dog, as shown.

59,579. COMBINED MICROSCOPE AND MIRROR. JAMES H. A. CARR, McKees Rocks, Pa. Filed Nov. 22, 1920. Serial No. 425,922. Term of patent 14 years.



The ornamental design for a combined microscope and mirror, as shown.

59,580. AUTOMOBILE-STEERING-COLUMN LOCK. FRANCIS C. COPELAND, San Francisco, Calif., assignor of one-half to Edward C. Streich, San Francisco, Calif. Filed Feb. 4, 1920. Serial No. 356,245. Term of patent 3½ years.



The ornamental design for an automobile steering column lock substantially as shown.

59,581. LAMP-BASE. OTTO J. DOSMAN, Chicago, Ill., assignor to Chicago Papier-Mache Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 17, 1921. Serial No. 438,018. Term of patent 3½ years.



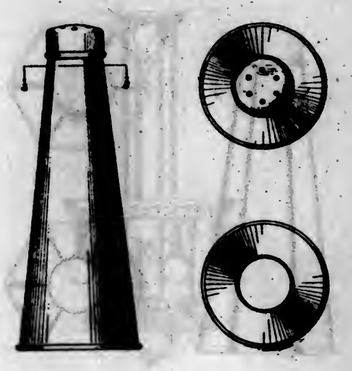
The ornamental design for a lamp base, substantially as shown.

59,582. AMUSEMENT DEVICE. CLINTON ELMER FROST, Cleveland, Ohio. Filed June 16, 1921. Serial No. 478,183. Term of patent 14 years.



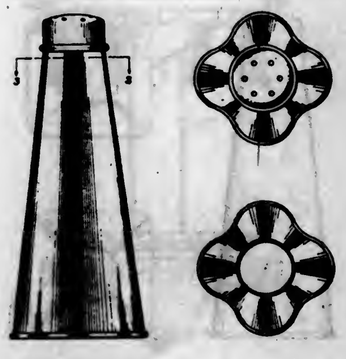
The ornamental design for an amusement device, as shown.

59,583. SIFTER-TOP CAN OR SIMILAR RECEPTACLE. WILLIAM H. GREEN, New York, N. Y., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md., a Corporation of New Jersey. Filed Apr. 30, 1921. Serial No. 465,858. Term of patent 14 years.



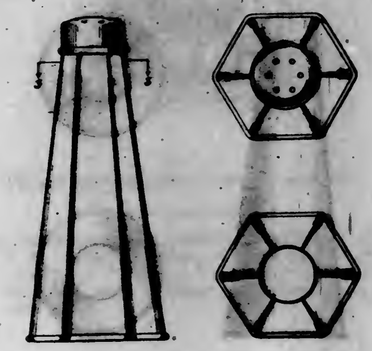
The ornamental design for a sifter top can or similar receptacle, as shown.

59,584. SIFTER-TOP CAN OR SIMILAR RECEPTACLE. WILLIAM H. GREEN, New York, N. Y., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md., a Corporation of New Jersey. Filed Apr. 30, 1921. Serial No. 465,859. Term of patent 14 years.



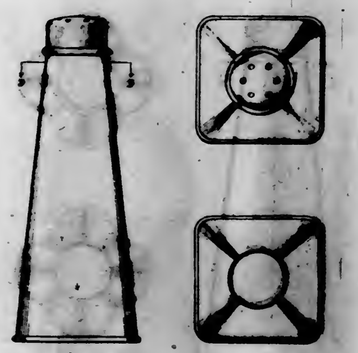
The ornamental design for a sifter-top can or similar receptacle, as shown.

59,586. SIFTER-TOP CAN OR SIMILAR RECEPTACLE. William H. Gunn, New York, N. Y., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md., a Corporation of New Jersey. Filed Apr. 30, 1921. Serial No. 465,860. Term of patent 14 years.



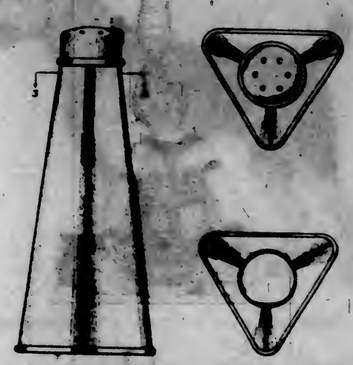
The ornamental design for a sifter-top can or similar receptacle.

59,586. SIFTER-TOP CAN OR SIMILAR RECEPTACLE. William H. Gunn, New York, N. Y., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md., a Corporation of New Jersey. Filed Apr. 30, 1921. Serial No. 465,861. Term of patent 14 years.



The ornamental design for a sifter-top can or similar receptacle, as shown.

59,587. SIFTER-TOP CAN OR SIMILAR RECEPTACLE. William H. Gunn, New York, N. Y., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md., a Corporation of New Jersey. Filed Apr. 30, 1921. Serial No. 465,862. Term of patent 14 years.



The ornamental design for a sifter top can or similar receptacle, as shown.

59,588. PIN-HOLDER. Lillian Z. Gunn, Chicago, Ill. Filed Mar. 10, 1921. Serial No. 451,310. Term of patent 3½ years.



The ornamental design for a pin holder as shown.

59,589. EMBLEM, PIN, BUTTON, OR SIMILAR ARTICLE. Edwin C. Heathcote, Brooklyn, N. Y. Filed May 16, 1919. Serial No. 297,706. Term of patent 7 years.



The ornamental design for an emblem, pin, button, or similar article, as shown.

59,590. EMBLEM, PIN, BUTTON, OR SIMILAR ARTICLE. Edwin C. Heathcote, Brooklyn, N. Y. Filed June 3, 1919. Serial No. 301,575. Term of patent 7 years.



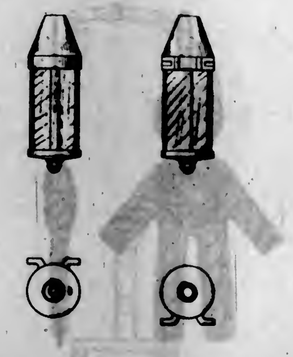
The ornamental design for an emblem, pin, button, or similar article, as shown.

59,591. EMBLEM, PIN, BUTTON, OR SIMILAR ARTICLE. Edwin C. Heathcote, Brooklyn, N. Y. Filed June 7, 1919. Serial No. 302,806. Term of patent 7 years.



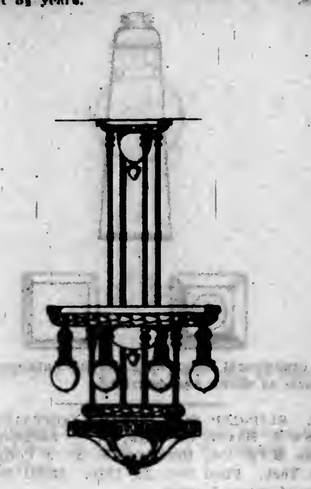
The ornamental design for an emblem, pin, button, or similar article, as shown.

59,592. VAPORIZER FOR INTERNAL-COMBUSTION ENGINES. James H. Hopkins, Pomona, Calif., assignor to Jesse McComas and Charles W. Goodwin, Pomona, Calif. Filed June 23, 1920. Serial No. 390,520. Term of patent 14 years.



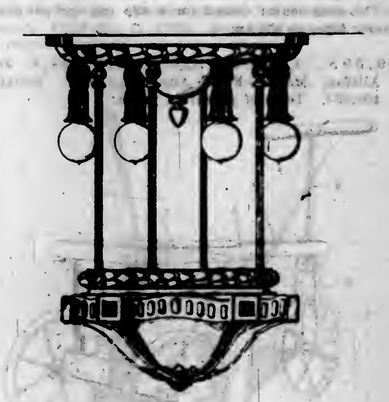
The ornamental design for a vaporizer for internal combustion engines, substantially as described and shown.

59,593. LIGHTING-FIXTURE. Roland T. Hughes, Oak Park, Ill., assignor to Moran & Macnair, Inc., Chicago, Ill. Filed Aug. 23, 1920. Serial No. 405,594. Term of patent 3½ years.



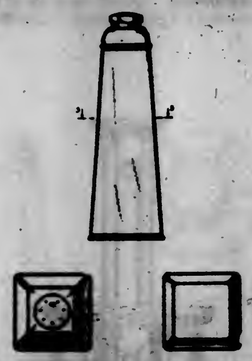
The ornamental design for a lighting fixture, as shown.

59,594. LIGHTING-FIXTURE. Roland T. Hughes, Oak Park, Ill., assignor to Moran & Macnair, Inc., Chicago, Ill. Filed Aug. 23, 1920. Serial No. 405,595. Term of patent 3½ years.



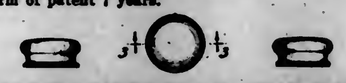
The ornamental design for a lighting fixture, as shown.

59,595. POWDER-CONTAINER OR SIMILAR RECEPTACLE. CLEM S. HUMPHREY, Brooklyn, N. Y. Filed June 26, 1920. Serial No. 392,080. Term of patent 7 years.



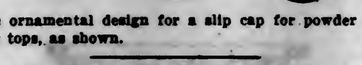
The ornamental design for a powder container or similar receptacle as shown and described.

59,596. SLIP-CAP FOR POWDER-CONTAINER TOPS. FRANK S. HYATT, Brooklyn, N. Y., assignor to Brass Goods M'f'g. Co., Brooklyn, N. Y., a Corporation of New York. Filed Nov. 22, 1919. Serial No. 339,956. Term of patent 7 years.



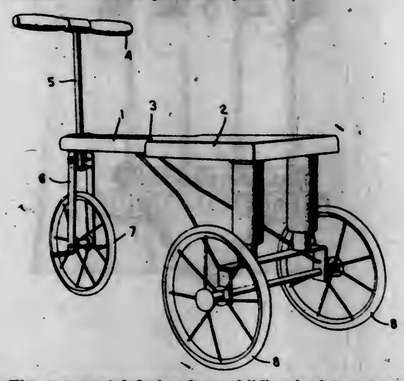
The ornamental design for a slip cap for powder container tops, as shown.

59,597. SLIP-CAP FOR POWDER-CONTAINER TOPS. FRANK S. HYATT, Brooklyn, N. Y., assignor to Brass Goods M'f'g. Co., Brooklyn, N. Y., a Corporation of New York. Filed Nov. 22, 1919. Serial No. 339,957. Term of patent 7 years.



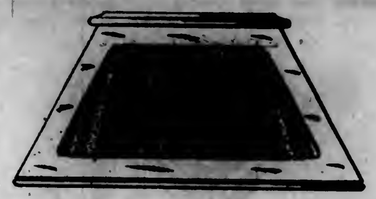
The ornamental design for a slip cap for powder container tops, as shown.

59,598. CHILD'S WHEEL TOY. JOHN C. JUTHE, Allston, Mass. Filed Aug. 28, 1920. Serial No. 406,637. Term of patent 14 years.



The ornamental design for a child's wheel toy as shown and described.

59,599. PANEL FOR A LAMP-SHADE. LEON L. KATZENSTEIN, Worcester, Mass. Filed Feb. 17, 1921. Serial No. 445,901. Term of patent 7 years.



The ornamental design for a panel for a lamp shade, as shown.

59,600. CABINET. EDMUND PHILO KELLOGG, Chicago, Ill., assignor to Albert Pick & Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 11, 1921. Serial No. 444,293. Term of patent 3½ years.



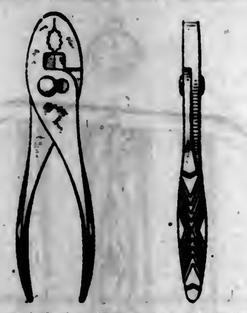
The ornamental design for a cabinet as shown.

59,601. PACKAGE CONTAINING CANDY. ALICE G. KILGORE, St. Paul, Minn. Filed Feb. 28, 1921. Serial No. 447,337. Term of patent 14 years.



The ornamental design for a package containing candy, as shown.

59,602. ORNAMENTATION OF A PLIER-HANDLE. ANDREW A. KRASUSKE, South Orange, N. J. Filed Apr. 8, 1920. Serial No. 372,800. Term of patent 14 years.



The ornamental design for an ornamentation of a plier handle as shown.

59,603. ICE-CREAM CONE. THOMAS F. LAWTON, New York, N. Y., assignor to Cone Company of America, New York, N. Y. Filed Nov. 23, 1920. Serial No. 426,067. Term of patent 14 years.



The ornamental design for an ice cream cone, as shown.

59,604. LAMP-SUPPORT. ERNEST F. MCCARTHY, Worcester, Mass. Filed Sept. 10, 1920. Serial No. 409,481. Term of patent 3½ years.



The ornamental design for a lamp support, as shown.

59,605. FINGER-RING. FRANK E. PELOQUIN, Providence, R. I. Filed Jan. 15, 1921. Serial No. 437,595. Term of patent 3½ years.



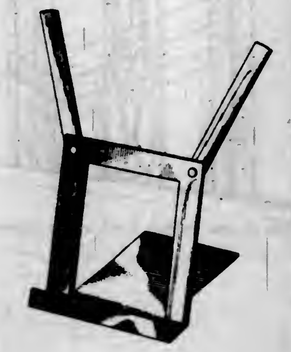
The ornamental design for a finger ring, as shown.

59,606. LOOSE-LEAF BOOK. FRANK C. SKILES, Chicago, Ill. Filed Sept. 26, 1919. Serial No. 326,689. Term of patent 7 years.



The ornamental design for a loose leaf book, as shown.

59,607. EASEL. ROBERT SPENCER, South Orange, N. J.; Lane H. Spencer, executor of said Robert Spencer, deceased. Filed Oct. 11, 1920. Serial No. 416,271. Term of patent 14 years.



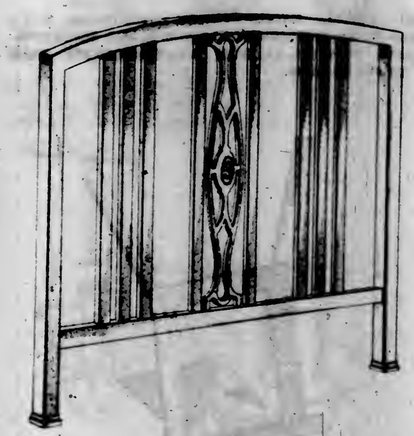
The ornamental design for an easel, as shown.

59,608. GRILLE FOR BEDSTEAD-FRAMES. Charles A. Stuart, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Mar. 14, 1921. Serial No. 452,339. Term of patent 14 years.



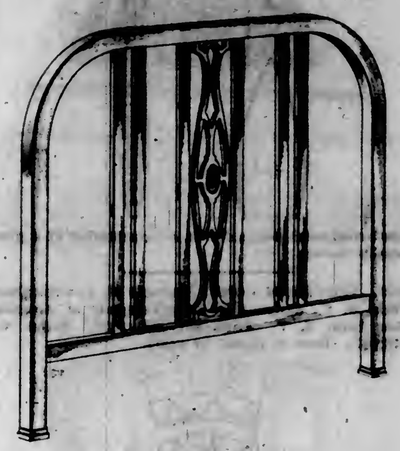
The ornamental design for a grille for bedstead frames, as shown.

59,609. BEDSTEAD-FRAME. Charles A. Stuart, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Mar. 14, 1921. Serial No. 452,340. Term of patent 14 years.



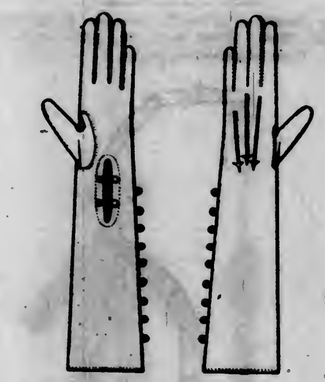
The ornamental design for a bedstead frame, as shown.

59,610. BEDSTEAD-FRAME. Charles A. Stuart, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Mar. 14, 1921. Serial No. 452,341. Term of patent 14 years.



The ornamental design for a bedstead frame, as shown.

59,611. GLOVE. Harry A. Taylor, New York, N. Y. Filed June 30, 1920. Serial No. 393,193. Term of patent 3½ years.



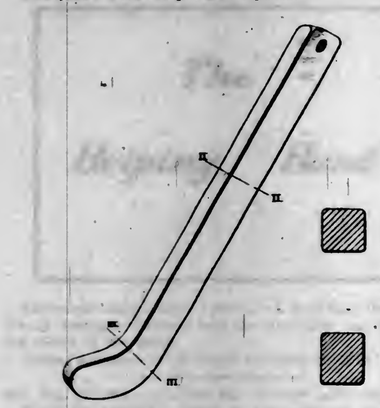
The ornamental design for a glove, as shown.

59,612. WATCH-CHARM. Jens T. Tennefass, Minneapolis, Minn. Filed Mar. 15, 1921. Serial No. 452,551. Term of patent 14 years.



The ornamental design for a watch charm, as shown.

59,613. CLOTHES-LIFTING STICK. Noble Thornton and Elmer C. Dunn, Keokuk, Iowa; said Thornton assignor to said Dunn. Filed Sept. 10, 1920. Serial No. 409,482. Term of patent 14 years.



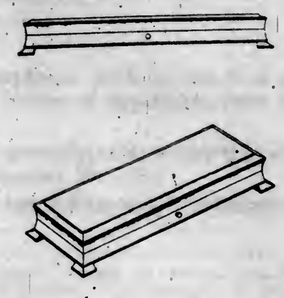
The ornamental design for a clothes lifting stick, as shown.

59,614. CHEST. Frank Tockes, Chicago, Ill. Filed Feb. 26, 1921. Serial No. 448,245. Term of patent 7 years.



The ornamental design for a chest, as shown.

59,615. JEWELRY-BOX. Frank M. Wright, Albany, N. Y. Filed Mar. 5, 1921. Serial No. 450,099. Term of patent 7 years.



The ornamental design for a jewelry box, as shown.

59,616. JEWELRY-BOX. Frank M. Wright, Albany, N. Y. Filed Mar. 5, 1921. Serial No. 450,100. Term of patent 7 years.



The ornamental design for a jewelry box, as shown.

OFFICIAL GAZETTE, NOVEMBER 8, 1921.

[PUBLISHED NOVEMBER 14, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 111,736. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MARY M. PASSY, Port Hope, Ontario, Canada. Filed June 21, 1918.



Particular description of goods.—A Reaching Device for Use in Hanging Pictures and Curtain-Poles and the Taking Down of the Same.
Claims use since the 15th day of January, 1918.

Ser. No. 119,326. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN D. ANTONOPULOS, New York, N. Y. Filed June 9, 1919.



Particular description of goods.—Olive-Oil, Candies, Figs, and Fresh and Dried and Canned Oranges, Pears, and Apples.
Claims use since May 1, 1919.

Ser. No. 120,470. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) YALE PRODUCTS CO., Fort Worth, Tex. Filed July 11, 1919.



The drawing is shaded for color red, no claim being made to the word "Brand" as a part of trade-mark.
Particular description of goods.—Pickles.
Claims use since Nov. 1, 1918.

Ser. No. 123,213. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) MCDANIEL DRUG COMPANY, Louisville, Ky. Filed Sept. 27, 1919.



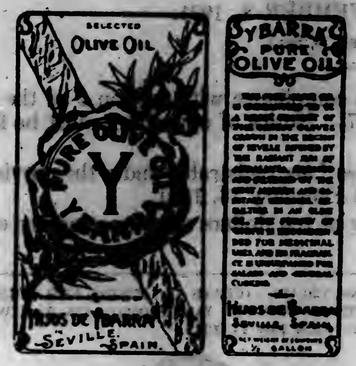
Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Syrups and Flavorings for Making Soft Drinks and the Beverages Made Therefrom.
Claims use since about July 1, 1913.

Ser. No. 127,306. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JACOB MILLER SONS & CO., Philadelphia, Pa. Filed Jan. 19, 1920.

PAMPAS

Particular description of goods.—Pongee.
Claims use since Sept. 29, 1919.

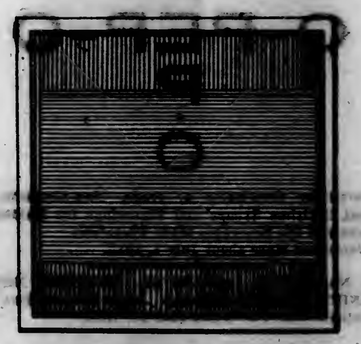
Ser. No. 128,004. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HIJOS DE YBARRA, Seville, Spain. Filed Feb. 5, 1920.



The applicant disclaims the exclusive right to the use of the words "Selected Olive Oil," "Pure Olive Oil," "Produced and Exported by," "Seville, Spain," and "This pure olive oil is guaranteed to be a direct product of the finest olives grown in the region of Seville, ripened by the radiant sun of Andalucia, pressed and filtered by the most modern and sanitary methods, resulting in an olive oil, the purity of which is recommended for medicinal uses, and its fragrance is unsurpassed for salads and general cooking," "Net Weight of Contents ½ Gallon."

Particular description of goods.—Olive Oil.
Claims use since Jan. 1, 1920.

Ser. No. 128,094. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANK JUNGWAELTER, St. Louis, Mo. Filed Feb. 7, 1920.



The shading used in the drawing represents the colors red and blue.

Particular description of goods.—Potato Rye Bread.
Claims use since 1915.

Ser. No. 128,095. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANK JUNGWAELTER, St. Louis, Mo. Filed Feb. 7, 1920.



The shading used in the drawing represents the color blue.

Particular description of goods.—Bread.
Claims use since 1915.

Ser. No. 128,804. (CLASS 39. CLOTHING.) TRIPLE-WEAR HOSIERY MILLS, Philadelphia, Pa. Filed Feb. 24, 1920.



The lining on the drawing is for shading and not for color. No claim is made to the exclusive use of the word "Hosiery" apart from the mark shown in the drawing.

Particular description of goods.—Hosiery.
Claims use since Apr. 15, 1916.

Ser. No. 129,458. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GALGO COMPANY, INC., Norfolk, Va. Filed Mar. 9, 1920.

GALGO

Particular description of goods.—A Medicine for Gall-Stone and Gravel.
Claims use since Jan. 2, 1920.

Ser. No. 129,690. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) RAPHAEL DEL CASTILLO & Co., New York, N. Y. Filed Apr. 10, 1920.



The shade lines on the drawing are not intended to indicate any particular colors, but merely represent shading. The use of the words "Mark of Merit" apart from the mark shown on the drawing is not claimed.

Particular description of goods.—Cotton Piece Goods.
Claims use since Mar. 1, 1920.

Ser. No. 131,423. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) VENTALITE SHADE REGULATOR COMPANY, St. Louis, Mo. Filed Apr. 21, 1920.

VENTALITE

Particular description of goods.—Window Attachments for Carrying and Adjusting the Ordinary Shade to Any Desired Position on the Window to Insure or Regulate Ventilation, Light, and Privacy.
Claims use since April, 1916.

Ser. No. 131,670. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) KING W. VIBOE, Los Angeles, Calif. Filed Apr. 26, 1920.

JACK-KNIFE MAN

Particular description of goods.—Toys, and Particularly Toy Figures Whittled out of Wood and the Like.
Claims use since Apr. 3, 1920.

Ser. No. 131,726. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) THE CHARLES MORRIS MANUFACTURING COMPANY, Greensburg, Ind. Filed Apr. 28, 1920.

FAIENTINE

Particular description of goods.—Ornamental and Ornamented Pottery.
Claims use since November, 1919.

Ser. No. 131,909. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AUGUST F. LUEM, Houston, Tex. Filed May 1, 1920.



Particular description of goods.—Pyorrhea-Cream and Tooth-Paste.
Claims use since the 1st day of September, 1919.

Ser. No. 131,934. (CLASS 46. BEVERAGES, NON-ALCOHOLIC.) PITTSBURGH BREWING COMPANY, Pittsburgh, Pa. Filed May 3, 1920.

Tech

Particular description of goods.—Non-Alcoholic, Malt-less Beverage Sold as Soft Drinks.
Claims use since about Apr. 20, 1920.

Ser. No. 132,669. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JERSEYVILLE NURSERY, Jerseyville, Ill. Filed May 5, 1920.



Particular description of goods.—Apples in Their Natural State.
Claims use since Sept. 8, 1919.

Ser. No. 133,496. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) LOUIS M. REHTHALER, Battle Creek, Mich. Filed June 9, 1920.



Particular description of goods.—Trusses for Hernia, Shoulder-Braces, Arch-Supports, and Abdominal Supporters for Therapeutic use.
Claims use since December, 1918.

Ser. No. 133,932. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN T. SIMPSON, Palmyra, Va. Filed June 12, 1920.



No claim being made to the word "Pneumonia" apart from the mark as shown in the drawing, the portrait shown being that of the applicant.
Particular description of goods.—A Preparation to be Used Externally for the Relief of Pneumonia, Throat and Lung Affections.
Claims use since May 26, 1920.

Ser. No. 134,046. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNITED IRON WORKS, INC., Kansas City, Mo. Filed June 22, 1920.



No claim is made to the right to the exclusive use of the words "For Service" except in the setting and relation in which they apply in the drawing and description and samples of the trade-mark filed with the application.
Particular description of goods.—Pumps of All Kinds, Crossover-Dumps, Rail-Benders, Shaker-Screens, Rotary Screens, Sheave-Wheels; Zinc-Smelting Plants Complete and in Units—viz., Concentrating Plants, Concentrating-Tables for Zinc and Lead Ores, Screens, Crushers, Crushing-Rolls, Classifiers, Jig-Irons, Condenser Molds and Plungers, Crushers, Pug-Mills, Blow and Bumper Shields and Hoists, and Mill-Rolls; Well-Drilling Tools Complete and in Units—viz., Bits, Jars, Sockets, Reamers, Fishing-Tools, Conveyers, Elevators; Coal-Mining Cages, Hoists, Track-Switches, Turntables, Steam-Engines, Air-Compressors, Ditching-Machines, Combination Drag-Line Ditchers and Shovels, Sectional Ditching-Dredges.
Claims use since about January, 1918.

Ser. No. 135,107. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) BENJAMIN JAMES PARSONS, Redditch, England. Filed July 17, 1920.

DAUNTLESS

Particular description of goods.—Needles — Namely, Knitting, Netting, and Hand-Sewing; Also Toilet Pins.
Claims use since Aug. 1, 1919.

Ser. No. 136,806. (CLASS 32. FURNITURE AND UPHOLSTERY.) JOHN A. SCHWABE, Inc., New York and Brooklyn, N. Y. Filed July 22, 1920.



No claim is made to the words "Special Elastic Felt Mattress" and the representation of a mattress apart from the mark shown in the drawing.
Particular description of goods.—Mattresses.
Claims use since Sept. 1, 1910.

Ser. No. 136,208. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed Aug. 17, 1920.



Particular description of goods.—Medicinal Oils for the Treatment of Constipation, Laundry-Wax, Petroleum, Disinfectants, and Dyes.
Claims use since June 15, 1920.

Ser. No. 136,239. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GRALE PACKING COMPANY, Roselle, N. J. Filed Sept. 4, 1920.

GRALE'S

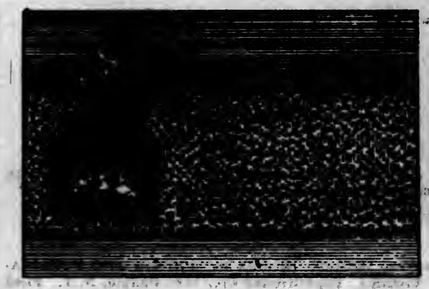
Particular description of goods.—A Laxative Food.
Claims use since Jan. 29, 1919.

Ser. No. 137,020. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) EFFICIENCY ELECTRIC CORPORATION, New York, N. Y. Filed Sept. 10, 1920.



Applicant is not claiming the word "Motor."
Particular description of goods.—Electrical Phonograph-Motors.
Claims use since June 29, 1920.

Ser. No. 137,046. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio. Filed Sept. 10, 1920.



Is colored blue, red, and yellow, as indicated by the lining on the drawing.
Particular description of goods.—Soaps, (Including Soft Soap, Grit Soap, Auto-Soap, Liquid Soap, Linseed-Oil Soap;) Metal-Polish, Leather-Dressing, Auto-Top Dressing, Harness-Dressing, and Shoe-Polish.
Claims use since August, 1918.

Ser. No. 137,553. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SORBO RUBBER-SPONGE PRODUCTS LTD., Woking, England. Filed Sept. 23, 1920.



Particular description of goods.—Playing-Balls, Toys, Leg-Guards, Wicket and Goal Keepers' Gloves, All Made of Rubber Sponge.
Claims use since Dec. 6, 1918.

Ser. No. 137,650. (CLASS 38. PRINTS AND PUBLICATIONS.) Brasco & Stratton Company, Milwaukee, Wis. Filed Sept. 24, 1920.

THE MOTOR WHEEL AGE

Consists of the words "The Motor Wheel Age."
Particular description of goods.—Monthly Magazines.
Claims use since about February, 1920.

Ser. No. 137,725. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) California Packing Corporation, San Francisco, Calif. Filed Sept. 29, 1920.

SILVER CROWN



Particular description of goods.—Dried Fruits, Raisins, and Seedless Raisins.
Claims use since Mar. 12, 1920.

Ser. No. 138,232. (CLASS 38. PRINTS AND PUBLICATIONS.) Post-Michel Co., Inc., Buffalo, N. Y. Filed Oct. 12, 1920.

KARDE KARDS

No claim being made to the exclusive use of the word "Karde" apart from the mark shown in the drawing.
Particular description of goods.—Greeting-Cards.
Claims use since about April, 1920.

Ser. No. 139,033. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) Sigmund L. Goldman, Chicago, Ill. Filed Nov. 1, 1920.



RED SUN

Particular description of goods.—Malt and Fruit Extracts and Syrups for Use in Making Non-Alcoholic Beverages.
Claims use since on or about Aug. 16, 1920.

Ser. No. 139,208. (CLASS 38. PRINTS AND PUBLICATIONS.) William M. Wagen, New York, N. Y. Filed Nov. 2, 1920.

The Financial Digest

Particular description of goods.—A Weekly Publication.
Claims use since Aug. 1, 1920.

Ser. No. 139,217. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Merck & Co., New York, N. Y. Filed Nov. 5, 1920.

FORMIN

Consisting of the words "Formin."
Particular description of goods.—Hexamethylenamin in the Form of Powder and Tablet.
Claims use since Mar. 23, 1896.

Ser. No. 139,243. (CLASS 39. CLOTHING.) Samuel Miller & Co., New York, N. Y. Filed Nov. 11, 1920.



The expression "Made in New York" and "America's Finest Light Weight Felts" are disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Hats and Caps for Men and Children.
Claims use since Jan. 1, 1920.

Ser. No. 139,244. (CLASS 39. CLOTHING.) Samuel Miller & Co., New York, N. Y. Filed Nov. 11, 1920.



The expression "Scientific Light Weight" and the word "Felts" are disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Hats and Caps for Men and Children.
Claims use since Jan. 1, 1920.

Ser. No. 139,601. (CLASS 2. RECEPTACLES.) Anco Sales Corporation, Chicago, Ill. Filed Nov. 13, 1920.



The portrait shown is that of Louis Joliet, the explorer.
No claim is made to the exclusive use of the words "Welded Tanks" apart from the trade-mark shown in the drawing.
Particular description of goods.—Metallic Tanks.
Claims use since Sept. 16, 1920.

Ser. No. 139,754. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) The Reese Chemical Company, Cleveland, Ohio. Filed Nov. 17, 1920.



Particular description of goods.—A Remedy for Headache and Neuralgia.
Claims use since January, 1918.

Ser. No. 140,162. (CLASS 48. BEVERAGES, NON-ALCOHOLIC.) Instant Extract Company, Monessen, Pa. Filed Nov. 26, 1920.



Particular description of goods.—Non-Alcoholic Malt-less Flavoring Extracts for Birch-Beer and Raspberry-Ade.
Claims use since about July 28, 1920.

Ser. No. 140,344. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Ellis Young McCrackin, El Paso, Tex. Filed Nov. 27, 1920.



No claim is made to the words "Trade-Mark Registered."
Particular description of goods.—A General Tonic.
Claims use since May 1, 1920.

Ser. No. 141,418. (CLASS 39. CLOTHING.) A. De Pinna Co., Inc., New York, N. Y. Filed Dec. 22, 1920. Under ten-year proviso.

DE PINNA

Particular description of goods.—Wearing-Apparel for Children and Infants of Both Sexes of All Descriptions and Materials—Namely, Suits, Dresses, One and Two Piece Underwear of Knitted and Textile Fabrics, Aprons, Bloomers, Athletic Suits, Coats, Cloaks, Hats, Caps; Shoes, Boots, Overshoes, Rubbers, Bootees, and Slippers, of Leather, Fabric, Rubber, and Combinations Thereof; Pajamas, Nightgowns, Bath-Robes, Collars, Neckties, of Knitted and Textile Fabrics, Sleeping-Gowns, Gloves and Mittens of Leather and Fabric and Combinations Thereof, Hosiery, Hose-Supporters, Overcoats, Raincoats, Capes, Jackets, Sweaters, Scarfs, Muffs, Furs, Mufflers, Blouses, Waists, Dress and Negligée Shirts for Boys and Young Men, Shirt-Waists, Bonfers, Petticoats, Belts, One and Two Piece Bathing-Suits, Bathing-Caps, Skirts, Play-Suits, Play-Dresses, Sporting-Suits, Shawls, and Leggings of Leather, Fabric, and Combinations Thereof.
Claims use since 1890.

Ser. No. 141,475. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE TOYCRAFT RUBBER CO., Ashland, Ohio. Filed Dec. 28, 1920.

TOYCO

Particular description of goods.—Toy Balloons, Squawking Balloons, Toy Rubber Balls, Rubber Toy Novelties, Such as Rubber Animals and Rubber Dolls.
Claims use since Dec. 5, 1919.

Ser. No. 141,611. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) U. S. OIL & SUPPLY CO., Providence, R. I. Filed Dec. 28, 1920.

WOOLENE

Particular description of goods.—Wool-Oil, an Oil Used to Lubricate and Soften Wool Preparatory to Spinning.
Claims use since January, 1920.

Ser. No. 141,761. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BENNETT AND ASPDEN COMPANY, Philadelphia, Pa. Filed Jan. 3, 1921.

DELPHI

Particular description of goods.—Velvets in the Piece.
Claims use since 1914.

Ser. No. 141,940. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MATTIE D. BILLINGSLEY, San Antonio, Tex. Filed Jan. 7, 1921.

ADORABLE

Particular description of goods.—Toilet Preparations Comprising Cleansing-Cream, Beautifying-Cream; Evening Dress, Which is a Facial Powder Applied in Moist Form and Permitted to Dry; Rouge, Hair-Tonic, Wrinkle-Cream, and Bleaching-Cream.
Claims use since about Jan. 1, 1917.

Ser. No. 141,997. (CLASS 39. CLOTHING.) THE CORSET SUPPLY HOUSE, New York, N. Y. Filed Jan. 8, 1921.

DAINTY DURABLE

THIS GARMENT MADE OF
KID-SKIN
WASHABLE SATIN
WEAR GUARANTEED

No claim is made for the exclusive use of the words "Dainty Durable" and "This Garment Made Of" and "Washable Satin Wear Guaranteed, Kid Skin" apart from the mark as shown in the drawing.
Particular description of goods.—Brassières and Diaphragm-Supporters.
Claims use since Dec. 28, 1920.

Ser. No. 142,421. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) SAN ANTONIO DRUG CO., San Antonio, Tex. Filed Jan. 18, 1921.

Particular description of goods.—Toilet-Tweezers and Finger-Nail Files.
Claims use since Nov. 29, 1919.

Ser. No. 142,600. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM H. DR. ST. CYR, Chicago, Ill. Filed Jan. 22, 1921.

DANDOLA

Particular description of goods.—Medicated Shampoo, Cold-Cream, Dandruff-Ointment.
Claims use since June, 1920.

Ser. No. 142,825. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAM RADCH, INC., New York, N. Y. Filed Jan. 27, 1921.

COCO'S

Particular description of goods.—Edible Vegetable Oils.
Claims use since Nov. 18, 1920.

Ser. No. 142,873. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALBERT BAUER, Jr., Scranton, Pa. Filed Jan. 28, 1921.

NOBILITY STRAINS

POULTRY AND POULTRY PRODUCTS

No claim being made to the word "Strains" and "Poultry and Poultry Products" apart from the mark shown in the drawing.
Particular description of goods.—Eggs and Live Chickens.
Claims use since January, 1920.

Ser. No. 143,072. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ANDREAS C. VASSOMES, Chicago, Ill. Filed Feb. 1, 1921.

BIG BEN

Particular description of goods.—Candy.
Claims use since Jan. 22, 1921.

Ser. No. 143,152. (CLASS 39. CLOTHING.) BAYNTON MILLS, Philadelphia, Pa. Filed Feb. 4, 1921.

"Resist"

Particular description of goods.—Sweaters, Sweater-Coats.
Claims use since July, 1920.

Ser. No. 143,199. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PASQUALE AVALLONE, Somerville, Mass., assignor to Ava-Lon Laboratories Company, Inc., Somerville, Mass., a Corporation of Massachusetts. Filed Feb. 5, 1921.

AVA-LON

Particular description of goods.—Medicinal Preparations—Namely, Pile Remedy, Healing-Balm for Skin Diseases, Lotion for the Skin, Laxative Pills, Mouth Wash, Rheumatism Medicine, Hair Tonic, and Vegetable Compound for the Blood.
Claims use since on or about Jan. 1, 1905.

Ser. No. 142,826. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE KLINEER MANUFACTURING CO., Cleveland, Ohio. Filed Feb. 8, 1921.

Sylvo

Particular description of goods.—Cold-Cream, Vanishing Cream, Massage-Cream, Carnation Toilet Cream, Cocoa-Butter Cream, Benzoin Honey and Almond Cream, Tar Shampoo, Bay-Rum, Antiseptic Shaving-Lotion, Depilatory, Toilet Water, and Perfumes.
Claims use since February, 1911.

Ser. No. 143,438. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH F. HARUSA, Chicago, Ill. Filed Feb. 11, 1921.

SHORT STOP

Particular description of goods.—Ulcer Medicine for External Application to Sores, Ulcers, and Bites from Insects and Reptiles and Used Internally in Cases of Inflammation of Mucous Membranes, and Toothache Preparation.
Claims use since September, 1920.

Ser. No. 143,890. (CLASS 32. FURNITURE AND UPHOLSTERY.) HERMAN WESSEL, Cincinnati, Ohio. Filed Feb. 18, 1921.

"I Lull the City to Sleep"

Particular description of goods.—Box-Mattresses, Cotton-Top Mattresses, Hair Mattresses, Cotton-Felt Mattresses, Pillows.
Claims use since Mar. 15, 1904.

Ser. No. 143,923. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DENNIS F. CRITCHELL, Limestone, Me. Filed Feb. 19, 1921.

C

Particular description of goods.—Fresh Potatoes Used for Table and Seed Purposes.
Claims use since Feb. 1, 1920.

Ser. No. 143,967. (CLASS 22. PRINTS AND PUBLICATIONS.) F. E. MASON & SONS, Batavia, N. Y. Filed Feb. 23, 1921.

No claim being made for the word "Seals" nor for the particular form of seal shown in the drawing.
Particular description of goods.—Seals Which Are Completely Printed and Ready to Be Used Upon Packages.
Claims use since about Sept. 1, 1919.

Ser. No. 144,030. (CLASS 24. METALS AND METAL CASTINGS AND FORGINGS.) KINGWELL BROS., San Francisco, Calif. Filed Feb. 26, 1921.

KING BRONZE

The word "Bronze" does not form a part of the registration sought apart from the mark shown in the drawing.
Particular description of goods.—Bronze Castings for Machinery Bushings, Castings for Pump-Valves, and Commercial Castings of Bronze and Brass.
Claims use since Dec. 20, 1919.

Ser. No. 144,126. (CLASS 39. CLOTHING.) BOOTH BROTHERS, New York, N. Y. Filed Feb. 20, 1921.

REGAR FELLERS

Particular description of goods.—Boys' Fabric and Leather Shoes.
Claims use since Feb. 24, 1921.

Ser. No. 144,539. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN J. NISSEN BAKING COMPANY, Portland, Me. Filed Mar. 9, 1921.



Particular description of goods.—Bread, Biscuits, Doughnuts, Fruit Cake, Layer-Cake, Angel-Cake, Assorted Cakes, and Cookies.
Claims use since Jan. 15, 1921.

Ser. No. 144,567. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SARAH FINKEL, New York, N. Y. Filed Mar. 10, 1921.

SARASALVE

No claim is made to the use of the letters of the word "Salve" or such word apart from the trade-mark as shown.
Particular description of goods.—A Medical Preparation for the Treatment of Skin Diseases.
Claims use since Jan. 1, 1919.

Ser. No. 145,215. (CLASS 39. CLOTHING.) EDWARD J. ISAACS, New York, N. Y. Filed Mar. 23, 1921.

"GLOVSILK"

Exclusive use of the words "Glovsilk" is disclaimed except as displayed on the background shown, with the "U" superposed upon the letter "L," also as shown in the drawing.
Particular description of goods.—Knitted Hosiery, Knitted Underwear in One and Two Piece Garments, and Knitted Petticoats for Women.
Claims use since Nov. 1, 1920.

Ser. No. 145,248. (CLASS 39. CLOTHING.) WALKER STETSON COMPANY, Boston, Mass. Filed Mar. 25, 1921.

MONITOR

Particular description of goods.—Men's and Boys' Belts, Gloves, and Mittens of Leather and Fabric; Jerseys; Neckwear Comprising Ties, Scarfs, and Bows; Night, Dress, Negligée, Work and Flannel Shirts and Pajamas, Overalls, Pants, Shirts, Suspenders, Mackinaw Coats and Raincoats; Boys' Blouses, Boys' Washable Suits; Men's, Boys', Women's, and Children's Bathing-Suits, and Men's, Boys', Women's, and Misses' Sweaters.
Claims use since Sept. 18, 1904.

Ser. No. 145,310. (CLASS 39. CLOTHING.) BERKENFELD, STRAUSS & CO., New York, N. Y. Filed Mar. 28, 1921.

"Sally-Slim"

Particular description of goods.—Aprons, Bungalow-Aprons, and House-Dresses.
Claims use since Feb. 11, 1921.

Ser. No. 145,344. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LEO LAMMERTZ, Aix-la-Chapelle, (Prussia,) Germany. Filed Mar. 28, 1921.

Superbia

The word being printed in Latin letters.
Particular description of goods.—Sewing and Embroidering Machine Needles.
Claims use since Dec. 22, 1894.

Ser. No. 145,926. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) EDWARD L. SOULÉ, San Francisco, Calif. Filed Mar. 28, 1921.



No claim is made to exclusive use of the words "Iron and Steel, San Francisco" apart from the mark shown.

Particular description of goods.—Iron and Steel Products—Namely, Flats, Rounds, Squares, Angles, and Cold-Rolled in Rounds, Squares, Flats, and Special Shapes; Sheets, Plates, Tool-Steel, Tin and Terne Plate; Rails and Rail Accessories—Namely, Splice-Angles; Pig-Iron, Billets, Blooms, and Slabs, and Wire Products—Namely, Wire Rods, Annealed or Bright Wire, Tinned Wire, Galvanized Wire, Coppered Wire, Liquor-Finished Wire, Lime-Coated Wire, Straightened and Cut Wire, and Stone Wire.

Claims use since Jan. 1, 1913.

Ser. No. 145,799. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SMOOTH-ON MANUFACTURING COMPANY, Jersey City, N. J. Filed Apr. 6, 1921.

SMOOTH-ON

Particular description of goods.—Ready-Mixed Paints.

Claims use since 1894.

Ser. No. 145,907. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM H. DE ST. CYR, Chicago, Ill. Filed Apr. 8, 1921.

OLACRU

Particular description of goods.—A Crude Oil Compound Used for the Treatment of Scalps and for Analogous Uses.

Claims use since Feb. 1, 1921.

Ser. No. 146,020. (CLASS 39. CLOTHING.) BENJAMIN I. JOHN STAM, Stoughton, Mass. Filed Apr. 11, 1921.

"IT'S A BENJAMIN-JOHNSTAM SHOO"



The lining on the shield as shown in the drawing is for the purpose of shading only. Applicant disclaims exclusive right to use the words "It's a Benjamin-Johnstam Shoo," "The One for All Wearers," "While You Serve the Public We Serve You Good Shoes," the words "Firemen," "Police," and "Mail Carrier," and the representation of the shoe except in connection with the remainder of the trade-mark as shown.

Particular description of goods.—Shoes Made of Leather, Rubber, Fabric, Compositions, and Combinations Thereof.

Claims use since Oct. 1, 1920.

Ser. No. 146,064. (CLASS 32. FURNITURE AND UPHOLSTERY.) O. D. BAKER COMPANY, Boston, Mass., and New York, N. Y. Filed Apr. 12, 1921.



WHAT THE WORLD RESTS ON

No claim being made to the words "What the World Rests on" apart from the mark as shown on the drawing.

Particular description of goods.—Mattresses, Bed-Springs, Pillows.

Claims use since 1904.

Ser. No. 146,153. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE VOLTO COMPANY, Cleveland, Ohio. Filed Apr. 13, 1921.

Volto

Particular description of goods.—Medicament-Volatilizers.

Claims use since October, 1916.

Ser. No. 146,170. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) N. FLUGELMAN & CO. INC., New York, N. Y. Filed Apr. 14, 1921.

Daintymaid

Particular description of goods.—Cotton and Silk Mixture Piece Goods.

Claims use since about February, 1919.

Ser. No. 146,334. (CLASS 39. CLOTHING.) CLARA L. MOTTA, Modesto, Calif. Filed Apr. 19, 1921.

The Clairmotta

Particular description of goods.—One-Piece Women's Textile-Fabric Undergarments.

Claims use since Mar. 31, 1921.

Ser. No. 146,466. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SALSBURG REFINING COMPANY, LTD., Lauderdale, La. Filed Apr. 20, 1921.

KENO

Particular description of goods.—Sugar, Table and Cooking Syrups, and Molasses.

Claims use since Oct. 15, 1919.

Ser. No. 146,793. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE GEORGE R. CARTER COMPANY, Connersville, Ind. Filed Apr. 27, 1921.

WIRE ON

Particular description of goods.—Molding for Upholstering.

Claims use since Apr. 6, 1921.

Ser. No. 146,877. (CLASS 39. CLOTHING.) COLE-GRANAS-ENDERLIN COMPANY, Los Angeles, Calif. Filed April 28, 1921.

JOLIE JOAN

Particular description of goods.—Child's Romper.

Claims use since Nov. 1, 1920.

Ser. No. 146,988. (CLASS 39. CLOTHING.) SHALER-GOODWIN COMPANY, Philadelphia, Pa. Filed Apr. 28, 1921.

SURE FIT

Applicant disclaims any attempt to cover in this registration the words "Sure Fit" apart from the mark shown in the drawing.

Particular description of goods.—Ladies' Shoes of Leather and of Fabric.

Claims use since on or about Apr. 5, 1921.

Ser. No. 146,957. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PATRICK J. DERVIN, New York, N. Y. Filed Apr. 29, 1921.

The Most Wonderful Treatment
Dervin's Ointment
Dermaton

No claim being made to the exclusive use of the phrase "The Most Wonderful Treatment" nor to the word "Ointment" apart from the mark as shown on the drawing.

Particular description of goods.—A Medicinal Preparation for the Treatment of Skin Diseases, Open Sores, Rheumatism, and Stiff Joints.

Claims use since Apr. 1, 1921.

Ser. No. 147,091. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COLBY MILLING COMPANY, Colby, Kans. Filed May 2, 1921.

Belle of the Plains



Particular description of goods.—Wheat and Graham Flour and Cornmeal.

Claims use since Oct. 1, 1920.

Ser. No. 147,256. (CLASS 39. CLOTHING.) RYAN-CUSHING COMPANY, Boston, Mass. Filed May 2, 1921.

THE PILGRIM BAG

No claim is made to the exclusive use of the word "Bag" apart from the mark shown in the drawing.
Particular description of goods.—Leather Handbags.
Claims use since Jan. 1, 1921.

Ser. No. 147,258. (CLASS 39. CLOTHING.) ISADOR FRANK, New York, N. Y. Filed May 2, 1921.

AMERICAN STANDARD CLOTHING COMPANY



The lining on the drawing being for purposes of shading only. No claim is made to the words "Trade Mark," "On the Square," or "American Standard Clothing Company" apart from the mark as shown.
Particular description of goods.—For Men's and Boys' Suits, Trousers, Top-Coats, Reefers, Mackinaws, Raincoats and Knee-Pants.
Claims use since Jan. 2, 1921.

Ser. No. 147,258. (CLASS 39. CLOTHING.) G. M. POIX, INC., Brooklyn, N. Y. Filed May 5, 1921.

ERECT-EASE

Particular description of goods.—Suits for Personal Wear.
Claims use since March, 1921.

Ser. No. 147,261. (CLASS 39. CLOTHING.) A. G. SPALDING & BROS., New York, N. Y. Filed May 5, 1921. Under ten-year proviso.

BARNARD

Particular description of goods.—Sweaters, Jerseys, and Baseball-Suits.
Claims use since about Jan. 2, 1920.

Ser. No. 147,267. (CLASS 39. CLOTHING.) WILSON BROTHERS, Chicago, Ill. Filed May 7, 1921.



Particular description of goods.—Men's and Boys' Hats.
Claims use since February, 1921.

Ser. No. 147,270. (CLASS 39. CLOTHING.) TRAUSNOUSEM & WEILLER, Baltimore, Md. Filed May 7, 1921.

STONEWALL

Particular description of goods.—Children's Union-Suits Made of Textile Fabrics; Children's Sleeping Garments—Namely, One-Piece and Two-Piece Pajamas.
Claims use since July, 1917, as to children's sleeping-garments; since August, 1920, as to children's union-suits.

Ser. No. 147,287. (CLASS 39. CLOTHING.) WILSON BROTHERS, Chicago, Ill. Filed May 7, 1921.

Garterette

Particular description of goods.—Garters.
Claims use since about October, 1920.

Ser. No. 147,292. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARRY GEORGE BROWN, Seattle, Wash. Filed May 9, 1921.

LUXURY

Particular description of goods.—Mayonnaise, Salad-Dressing, Thousand Island Dressing.
Claims use since Nov. 25, 1920.

Ser. No. 147,317. (CLASS 39. CLOTHING.) MORRISON RUBBER MFG. CO., Grinnell, Iowa. Filed May 9, 1921.

REZISTOL

Particular description of goods.—Gloves Made of Leather.
Claims use since 1912.

Ser. No. 147,474. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. M. SEWELL, Chattanooga, Tenn. Filed May 9, 1921.

BUTTERCAKE



DAIRY FEED

No claim being made to the words "Dairy Feed" apart from the other features of the mark.
Particular description of goods.—Dairy Feed.
Claims use since Nov. 1, 1920.

Ser. No. 147,479. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UCANCO CANDY COMPANY, Davenport, Iowa. Filed May 9, 1921.



No claim being made to the words "Davenport, Iowa," apart from the other features of the mark.
Particular description of goods.—Candy, Such as Chocolate Bars, Caramels, and other Like Candy That is Usually Marketed in Individual Wrappers.
Claims use since Mar. 1, 1919.

Ser. No. 147,506. (CLASS 2. RECEPTACLES.) FABRICATED STEEL PRODUCTS CORPORATION, New York, N. Y., and Leetonia, Ohio. Filed May 10, 1921.

"TREAT 'EM ROUGH"

Particular description of goods.—Receptacles, Particularly Classed as Tanks.
Claims use since Jan. 15, 1920.

Ser. No. 147,520½. (CLASS 39. CLOTHING.) DELCO HOSIERY & UNDERWEAR CO. INC., New York, N. Y. Filed May 10, 1921.

DELCO

Particular description of goods.—Hosiery and Men's, Women's, and Children's Knitted Underwear.
Claims use since Mar. 15, 1921.

Ser. No. 147,545. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELISAVETA BAZANOVA, New York, N. Y. Filed May 11, 1921.

Skincharm

Particular description of goods.—Face-Cream.
Claims use since Jan. 1, 1921.

Ser. No. 147,560. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALTON & HOFFMAN, Buffalo, N. Y. Filed May 10, 1921.



DAISY

Particular description of goods.—Potato Chips.
Claims use since Apr. 19, 1921.

Ser. No. 147,776. (CLASS 39. CLOTHING.) Barrett L. Gram, St. Louis, Mo. Filed May 16, 1921.

ARTCRAFT

Particular description of goods.—Men's, Boys', and Children's Hats and Caps.
Claims use since Jan. 1, 1921.

Ser. No. 147,783. (CLASS 39. CLOTHING.) Hoban-Adam Shoe Company, Belleville, Ill. Filed May 16, 1921.

Solido

Particular description of goods.—Leather Shoes.
Claims use since about Dec. 1, 1918.

Ser. No. 147,838. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) New York Merchandise Company, New York, N. Y. Filed May 17, 1921.



The picture being fanciful, and exclusive use of the word "Perfecta" is disclaimed apart from the rest of the mark shown.
Particular description of goods.—Hair-Nets.
Claims use since Jan. 1, 1911.

Ser. No. 147,849. (CLASS 39. CLOTHING.) Sanger Brothers, Inc., Dallas, Tex., and New York, N. Y. Filed May 17, 1921.

EVERY H S OF KIDDIES

The word "Shoe" being disclaimed except as shown.
Particular description of goods.—Shoes for Children, Made of Leather.
Claims use since March, 1921.

Ser. No. 147,942½. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) American Fruit Growers of Palestine, Inc., Boston, Mass. Filed May 19, 1921.

AMERICAN FRUIT GROWERS OF PALESTINE INC. GROWN IN EATS ROYAL ישראל

The translation of the Hebrew character in the six-point star of the drawing, also known as the shield of David, is "Zion." The translation of the Hebrew character between "Eats Royal" and "of Palestine Inc." is "Israel." The following words are disclaimed apart from the mark shown in the drawing: The Hebrew characters translated as "Zion" and "Israel," "American Fruit Growers of Palestine Inc." and "Grown in Palestine."
Particular description of goods.—Oranges and Lemons.
Claims use since Dec. 1, 1920.

Ser. No. 147,951. (CLASS 38. PRINTS AND PUBLICATIONS.) Commercial Newspaper Company, New York, N. Y. Filed May 20, 1921.

[redacted]

Particular description of goods.—A Page or Department in a Periodical Publication Published Daily.
Claims use since May 10, 1921.

Ser. No. 147,962. (CLASS 39. CLOTHING.) The Cohn-Goodman Company, Cleveland, Ohio. Filed May 20, 1921.

Style-Craft

Particular description of goods.—Ladies' and Misses' Coats, Suits, and Dresses.
Claims use since 1906.

Ser. No. 147,991. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Louis Rossel & Co. Inc., New York, N. Y. Filed May 20, 1921.



Particular description of goods.—Crepe in the Piece and Broad Silks in the Piece.
Claims use since Feb. 1, 1915.

Ser. No. 148,006. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Youth-Gland Chemical Laboratories, Ltd., Chicago, Ill. Filed May 20, 1921.

YOUTH-GLAND

Particular description of goods.—A Medicine for Treatment of Lack of Vitality, Premature Old Age, and to Stimulate Energy and Activity.
Claims use since Feb. 1, 1921.

Ser. No. 148,118. (CLASS 39. CLOTHING.) Brown Shoe Company, Inc., St. Louis, Mo. Filed May 24, 1921.

HOME RUN

Particular description of goods.—Boys' Shoes Made of Leather.
Claims use since Feb. 24, 1921.

Ser. No. 148,130. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) De Forest Radio Telephone and Telegraph Company, New York, N. Y. Filed May 24, 1921.

PHONOFILM

Particular description of goods.—Motion-Picture Films, Motion-Picture Cameras, Motion-Picture-Projecting Machines, and Talking-Moving-Picture Machines.
Claims use since Jan. 1, 1921.

Ser. No. 148,131. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) De Forest Radio Telephone and Telegraph Company, New York, N. Y. Filed May 24, 1921.

FONOFILM

Particular description of goods.—Motion-Picture Films, Motion-Picture Cameras, Motion-Picture-Projecting Machines, and Talking-Moving-Picture Machines.
Claims use since Jan. 1, 1921.

Ser. No. 148,173. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) Augusta Schmid, Philadelphia, Pa. Filed May 24, 1921.



De-Rings

Particular description of goods.—Supporter-Belts for Sanitary Napkins.
Claims use since May 16, 1921.

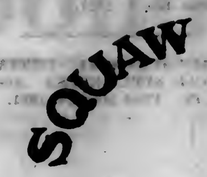
Ser. No. 149,170. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE THOMSEN-DYCK COMPANY, Sacramento, Calif. Filed May 24, 1922.



Particular description of goods.—Fishing-Rods, Fishing-Reels, Fishing-Lines, Snelled Hooks, Ringed Hooks, Trout-Flies, Gut Leaders, Wire Leaders, Spinners, Fly-Spinners, Spoon Baits, Rubber Insects, Rubber Minnows, Artificial Minnows, Fly-Books, Fly-Boxes, Bait-Boxes, Leader-Boxes, Minnow-Buckets, Fishing-Baskets, Fishing-Basket Straps, Gaff-Hooks, Landing-Nets, Minnow-Seines, Minnow-Nets, Prepared Salmon-Eggs, Basket-Ball Nets, Golf-Clubs, Tennis-Rackets, Tennis-Nets, Caddy-Bags, Tackle-Boxes, Rod-Holders, Cork Floats, Furnished Lines, Sinkers, Fly-Rod Tops, Fly-Rod Guides, Barrel-Swivels, Split Rings, Baseballs, Baseball-Bats, Baseball-Gloves, Baseball-Mitts, Baseball-Masks, Baseball-Protectors, Baseball-Bases, Footballs, Soccer-Balls, Stirking-Bags, Golfing-Gloves, Sinking-Swivels, Boxing-Gloves, Rubber Balls, Playground-Balls, Basket-Balls, Basket-Ball Goals, Golf-Balls, Tennis-Balls, Tennis-Racket Covers.

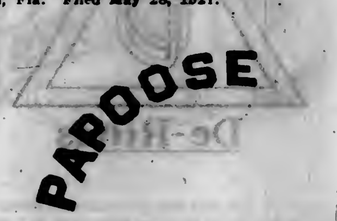
Claims use since Jan. 1, 1918.

Ser. No. 148,396. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEAMATHLA GROVE, Merritts Island, Fla. Filed May 28, 1921.



Particular description of goods.—Fresh Citrus Fruits.
Claims use since 1911.

Ser. No. 148,397. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEAMATHLA GROVE, Merritts Island, Fla. Filed May 28, 1921.



Particular description of goods.—Fresh Citrus Fruits.
Claims use since 1911.

Ser. No. 148,398. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEAMATHLA GROVE, Merritts Island, Fla. Filed May 28, 1921.



Particular description of goods.—Fresh Citrus Fruits.
Claims use since 1912.

Ser. No. 148,496. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARRY MARTIN LOCKWOOD, Redondo Beach, Calif. Filed June 1, 1921.



The words "Brand" and "Marmalade" are disclaimed apart from the other features shown in the mark.
Particular description of goods.—Canned Fruits.
Claims use since May 25, 1921.

Ser. No. 148,550. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLAY SHERMAN, New York, N. Y. Filed June 1, 1921.





Particular description of goods.—Pure Oil Extracted from Fresh Codfish-Livers without Any other Ingredients, Used for Pulmonary Diseases, Called "Pure Cod-Liver Oil."
Claims use since Sept. 1, 1887.

Ser. No. 148,632. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH FARABELLY, New Rochelle, N. Y. Filed June 4, 1921.



Particular description of goods.—A Massage-Cream for the Ankles.
Claims use since May 7, 1921.

Ser. No. 148,726. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN C. FRETER, Bridgeport, Ohio. Filed June 6, 1921.

ERADO

Particular description of goods.—A Medicine Used as a Remedy for the Treatment for Rheumatism and Blood Diseases.
Claims use since on or about Feb. 25, 1919.

Ser. No. 148,942. (CLASS 38. PRINTS AND PUBLICATIONS.) THE LIMA PHOTO-ENGRAVING CO., Lima, Ohio. Filed June 10, 1921.

CO-OPERATION
THE LIMA PHOTO-ENGRAVING CO.

The words "The Lima Photo-Engraving Co." appearing on the drawing being disclaimed apart from the mark shown.
Particular description of goods.—Pamphlets, Leaflets, and Circulars Devoted to Photo-Engraving Subjects.
Claims use since Feb. 1, 1921.

Ser. No. 148,956. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIÉTÉ ANONYME DES USINES GIULINI, Basel, Switzerland. Filed June 10, 1921.

Aludur

Particular description of goods.—Fluxes for Soldering and Welding.
Claims use since September, 1920.

Ser. No. 149,166. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HARRY G. AINSWORTH, Kentland, Ind. Filed June 15, 1921.

AUT-O-DOR

Particular description of goods.—Machinery for Controlling the Operation of Doors.
Claims use since May 1, 1921.

Ser. No. 149,169. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KOEHRING COMPANY, Milwaukee, Wis. Filed June 15, 1921.



Disclaimer is made of the exclusive use of the words "Heavy Duty" except in association with the mark shown.
Particular description of goods.—Concrete-Mixers, Concrete-Distributing Machines, Loading-Skips, Graders, Locomotive-Cranes, and Paving-Machines.
Claims use since May 2, 1921.

Ser. No. 149,268. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM H. ARTHUR, Stamford, Conn. Filed June 17, 1921.

KALAX

Particular description of goods.—Laxatives.
Claims use since May 10, 1921.

Ser. No. 149,399. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) YORK MILK MACHINERY COMPANY, York, Pa. Filed June 17, 1921.



Particular description of goods.—Bottle-Washing Machines.
Claims use since February, 1921.

Ser. No. 149,419. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ODLE BROTHERS, Detroit, Mich. Filed June 20, 1921.

ROTO

Particular description of goods.—Traveling-Belt Signs.
Claims use since June 1, 1920.

Ser. No. 149,429. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) S & G MANUFACTURING COMPANY, Stockton, Calif. Filed June 20, 1921.

WATERPUL

Particular description of goods.—Water-Circulator for Internal-Combustion Engines.
Claims use since Jan. 1, 1921.

Ser. No. 149,432. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WINCHESTER REPEATING ARMS CO., New Haven, Conn. Filed June 20, 1921.

WINCHESTER

Under section 9 of the act of Mar. 19, 1920.
Particular description of goods.—Butcher-Knives, Paring-Knives, Cook-Knives, Pocket-Knives, Scraping-Knives, Razors, Compass-Saws, Panel-Saws, Handsaws, Butcher-Saws, Kitchen-Saws, Coping-Saws, Wood-Saws, Crosscut-Saws, Saw-Blades, Saw-Frames, Planes, Monkey-Wrenches, Pipe-Wrenches, Cabinet-Scrapers, Chisels, and Files.
Claims use since May 15, 1920.

Ser. No. 149,442. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) C. C. COLE, Atlanta, Ga. Filed June 21, 1921.

Sweet Marie

Particular description of goods.—Skin-Cream for the Treatment of Eczema, Pimples, Tetter, Ringworm, Blackheads, Freckles, Tan, Sunburn, &c., Face-Powder.
Claims use since Feb. 1, 1912.

Ser. No. 149,509. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LABORATOIRES NATIVELLE, Paris, France. Filed June 22, 1921.

DIGITALINE NATIVELLE

Particular description of goods.—Medicines for the Treatment of Affections of the Heart.
Claims use since April, 1900.

Ser. No. 149,530. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VAN CRULLER COMPANY, Newark, N. J. Filed June 22, 1921.

VAN'S

No claim being made to the representation of the crullers apart from the mark shown in the accompanying drawing.
Particular description of goods.—Crullers.
Claims use since June 15, 1921.

Ser. No. 149,535. (CLASS 2. RECEPTACLES.) ARLO BOX COMPANY, Oak, Fla. Filed June 23, 1921.



No claim is made to the representation of the box apart from the mark shown in the drawing.
Particular description of goods.—Boxes and Packing-Cases, Said Boxes and Packing-Cases Embodying in Their Construction Wood, Fiber-Board, or the Like, and Being Adapted for Use as Shipping-Containers.
Claims use since May 23, 1921.

Ser. No. 149,546. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GULF COAST PRODUCE EXCHANGE, Mobile, Ala. Filed June 23, 1921.

"Pine Tree"



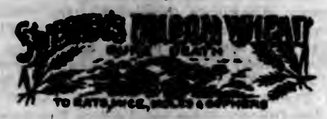
Particular description of goods.—Fresh Cabbage, Beans, Irish Potatoes, Peaches, Watermelons, and Sweet Potatoes.
Claims use since March, 1918.

Ser. No. 149,548. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOWARD & SONS LIMITED, Ilford, near London, England. Filed June 23, 1921.

STARTOL

The trade-mark consisting of the coined or fancy word "Startol."
Particular description of goods.—A Preparation for Use in Facilitating the Starting of Internal-Combustion Engines.
Claims use since the month of November, 1920.

Ser. No. 149,562. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM R. SWEENEY, Salisbury, Mo. Filed June 23, 1921.



The words "Poison Wheat Sure Death to Rats, Mice, Moles & Gophers" are disclaimed except in combination with the mark shown.
Particular description of goods.—Rat, Mouse, Mole, and Gopher Poison.
Claims use since 1892.

Ser. No. 149,568. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WICOMICO FARMERS ASSOCIATION, INC., Salisbury, Md. Filed June 23, 1921.



No claim is made to the word "Brand" apart from the mark shown on the drawing.
Particular description of goods.—Fresh Fruits, Fresh Vegetables, Fresh Berries.
Claims use since June 20, 1921.

Ser. No. 149,603. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) F. L. SMITHE MACHINE COMPANY, INCORPORATED, New York, N. Y. Filed June 24, 1921.

CHAMPION

Particular description of goods.—Machines for Making Envelops.
Claims use since Mar. 17, 1906.

Ser. No. 146,651. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PENN DRUG SPECIALTY CO., Pittsburgh, Pa. Filed June 25, 1921.

PENNKERCHIEF

Particular description of goods.—Handkerchiefs.
Claims use since June 1, 1921.

Ser. No. 149,756. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN H. KELLY, Bellingham, Wash. Filed June 28, 1921.

KELLY'S
GREEN TRIANGLE
WINDOW
BRIGHT

Applicant disclaims the words "Window Bright" apart from the trade mark shown.

Particular description of goods.—A Liquid Mixture Adapted for Cleaning Glass and Preventing Accumulation of Mist, Rain, and Frost Thereon.

Claims use since June 6, 1921.

Ser. No. 149,782. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SHUSTER ENGINEERING CORPORATION, Philadelphia, Pa. Filed June 28, 1921.

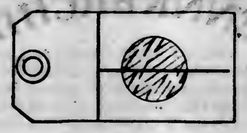
SECO

Particular description of goods.—Wrenches.

Claims use since Jan. 1, 1921.

Ser. No. 149,792. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE DENVER ALFALFA MILLING & PRODUCTS CO., Lamar, Colo. Filed June 29, 1921.

A disk.



Particular description of goods.—Alfalfa-Meal.

Claims use since Dec. 1, 1920.

Ser. No. 149,897. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) INTERNATIONAL HARVESTER COMPANY, Chicago, Ill. Filed June 29, 1921. Under ten-year proviso.

DEERING

Particular description of goods.—Grain-Binders, Rice-Binders, Tractor-Binders, Reapers, Headers, Header-Binders, Mowers, Hay-Rakes, Sweep-Rakes, Side-Delivery Rakes, Tedders, Hay-Loaders, Hay-Presses, Stackers, Combined Sweep-Rakes and Stackers, Corn-Binders, Corn-Pickers, Corn-Shellers, Cornstalk-Rakes, Huskers, Shredders, Combined Huskers and Ensilage-Cutters, Ensilage-Harvesters, Silo-Fillers, Ensilage-Cutters, Stalk-Cutters, Harrows, Feed-Grinders, Grain-Drills, Seeders, Plows, Cultivators, Lime-Sowers, Fertilizer-Distributers, Manure-Spreaders, Binder-Hitches, Knife-Grinders, Land-Rollers, Land-Packers, Planters, Shock-Gatherers, Shockers, Harvester-Threshers, Threshers, Stripper-Harvesters, Combined Side-Delivery Rakes and Tedders, Bunchers, Listers, Motor-Cultivators, Beet-Toppers, Beet-Pullers, Beet-Harvesters, Internal-Combustion Engines, Tractors, Cream-Separators, Straw-Spreader Attachments, Stone-Burr Mills, Cane-Mills, Tractor-Hitches, Potato-Diggers, Hemp-Harvesters, Hemp-Gather Binders, Hemp-Scutchers, Hemp-Brakes, Hemp-Tow Cleaners, Feeders for Hemp-Scutchers, and Separate Parts for Each of Said Machines.

Claims use since about 1874.

Ser. No. 149,808. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) INTERNATIONAL HARVESTER COMPANY, Chicago, Ill. Filed June 29, 1921. Under ten-year proviso.

McCORMICK

Particular description of goods.—Grain-Binders, Rice-Binders, Tractor-Binders, Reapers, Headers, Header-Binders, Mowers, Hay-Rakes, Sweep-Rakes, Side-Delivery Rakes, Tedders, Hay-Loaders, Hay-Presses, Stackers, Combined Sweep-Rakes and Stackers, Corn-Binders, Corn-Pickers, Corn-Shellers, Cornstalk-Rakes, Huskers, Shredders, Combined Huskers and Ensilage-Cutters, Ensilage-Harvesters, Silo-Fillers, Ensilage-Cutters, Stalk-Cutters, Harrows, Feed-Grinders, Grain-Drills, Seeders, Plows, Cultivators, Lime-Sowers, Fertilizer-Distributers, Manure-Spreaders, Binder-Hitches, Knife-Grinders, Land-Rollers, Land-Packers, Planters, Shock-Gatherers, Shockers, Harvester-Threshers, Threshers, Stripper-Harvesters, Combined Side-Delivery Rakes and Tedders, Bunchers, Listers, Motor-Cultivators, Beet-Toppers, Beet-Pullers, Beet-Harvesters, Internal-Combustion Engines, Tractors, Cream-Separators, Straw-Spreader Attachments, Stone-Burr Mills, Cane-Mills, Tractor-Hitches, Potato-Diggers, Hemp-Harvesters, Hemp-Gather Binders, Hemp-Scutchers, Hemp-Brakes, Hemp-Tow Cleaners, Feeders for Hemp-Scutchers, and Separate Parts for Each of Said Machines.

Claims use since about 1848.

Ser. No. 149,923. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES B. SIMS, Oradell, N. J. Filed June 29, 1921.

ORA-DIZE

Particular description of goods.—A Preparation for Waterproofing Straw Paper, and Protecting Brass, Silver, Copper, Nickel, and Gold from Tarnish.

Claims use since May 21, 1921.

Ser. No. 149,934. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE W. SANBORN & SONS, Astoria, Oreg. Filed July 1, 1921.

SILVER HORDE

Particular description of goods.—Canned Salmon.

Claims use since Oct. 1, 1912.

Ser. No. 149,949. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMUEL PRESTON DAVIS, Little Rock, Ark. Filed July 2, 1921.

S. P. DAVIS
SERVICE
PRODUCT
DEPENDABILITY

No claim being made to the words "Service," "Product," and "Dependability" apart from the mark shown.

Particular description of goods.—Cattle and Stock Feed.

Claims use since Feb. 1, 1920.

Ser. No. 149,950. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMUEL PRESTON DAVIS, Little Rock, Ark. Filed July 2, 1921.

STEERBOY

Particular description of goods.—Cattle and Stock Feed.

Claims use since Sept. 1, 1919.

Ser. No. 149,962. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMUEL PRESTON DAVIS, Little Rock, Ark. Filed July 2, 1921.

BEAUTY

Particular description of goods.—Cattle and Stock Feed.

Claims use since July 1, 1915.

Ser. No. 149,967. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FT. MYERS TRUCKERS ASSN., Fort Myers, Fla. Filed July 2, 1921.

SEVEN STAR

Particular description of goods.—Fresh Peppers, Egg-Plants, Cucumbers, Tomatoes, and Beans.

Claims use since Nov. 9, 1920.

Ser. No. 149,971. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) GEORGE VAN HORN MOSELEY, San Antonio, Tex. Filed July 2, 1921.



The lining on the drawing represents shading only. No exclusive claim is made for the use of any of the words apart from the mark herein shown, except "Alamo Industries" and "La Mesa Cheese."

Particular description of goods.—Non-Alcoholic, Maltless Beverage Sold as a Soft Drink.

Claims use since June 25, 1921.

Ser. No. 149,974. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ALEXIS OUELLETT, Nashua, N. H. Filed July 2, 1921.

EAGLE

Particular description of goods.—Furniture and Automobile Polish.
Claims use since Jan. 1, 1921.

Ser. No. 150,015. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CLARENCE PAUL JOHNSON, Sheldon, Ill. Filed July 5, 1921.



The representation of a grape-fruit and the words "Grape Fruit" are disclaimed apart from the mark as shown in the drawing.
Particular description of goods.—A Non-Alcoholic, Maitless Beverage Sold as a Soft Drink.
Claims use since Mar. 2, 1921.

Ser. No. 150,039. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ORVILLE D. STUART, Chicago, Ill. Filed July 5, 1921.

ROSAPINE

Particular description of goods.—A Medical Healing Ointment and Deodorizer.
Claims use since about June 1, 1910.

Ser. No. 150,042. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SPELTZ GRAIN & COAL CO., Albert Lea, Minn. Filed July 5, 1921.

Cacklemore
SCRATCH FEED

No claim is made to the words "Scratch Feed" apart from the mark shown on the drawing.
Particular description of goods.—Chicken Feed.
Claims use since June 1, 1921.

Ser. No. 150,058. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BENJAMIN BALSEN, Brooklyn, N. Y. Filed July 6, 1921.



Particular description of goods.—Fresh Onions, Potatoes, Carrots, and Apples.
Claims use since June 27, 1921.

Ser. No. 150,062. (CLASS 2. RECEPTACLES.) THE SCRANTONEED CONTAINER CORPORATION, Huntington, W. Va. Filed July 6, 1921.



The word "Katchall" being disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Sanitary Containers.
Claims use since June 21, 1921.

Ser. No. 150,064. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WORCESTER SALT CO., New York, N. Y. Filed July 6, 1921.



Particular description of goods.—Salt—i. e., Sodium Chlorid.
Claims use since Feb. 15, 1880.

Ser. No. 150,090. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INDIAN PACKING CORPORATION, Green Bay, Wis. Filed July 5, 1921.

Bay Farm

Consisting of the colored word "Bay Farm."
Particular description of goods.—Canned Food—Namely, Chilli Sauce, Tomato Catsup, Sugar-Corn, Tomatoes, Peas, Kidney-Beans, Pork and Beans with Tomato Sauce, Sauer-Kraut, Pumpkin, and Hominy.
Claims use since June 9, 1921.

Ser. No. 150,117. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THEODORE G. SOFFOS, New York, N. Y. Filed July 7, 1921.



The picture of the male figure being that of Theodore G. Soffos.
Particular description of goods.—A Liquid Preparation for the Treatment of Hair and Scalp.
Claims use since June 14, 1921.

Ser. No. 150,141. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo. Filed July 8, 1921.



The trade-mark consists of the word "Seneca" displayed in white letters with light-brown borders upon a dark-brown solid background disposed at the upper portion of the pictorial representation and above a light-blue foreground representing a body of water in which is a canoe of dark-brown exterior with the interior thereof displayed in white and with light-brown gunwales and braces, the stern of the canoe being toward the front of the picture, and an Indian being represented in light brown seated in the stern with his back toward the beholder.
Particular description of goods.—Sheets and Pillow-Cases.
Claims use since Feb. 14, 1921.

Ser. No. 150,150. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KALISH PHARMACY, New York, N. Y. Filed July 8, 1921.

Nailfac

Particular description of goods.—Toilet Preparations—Namely, Nail-Polishes and Nail-Cleansers.
Claims use since Aug. 17, 1915.

Ser. No. 150,184. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CRUSEN-ALLEGRETTI CO., Chicago, Ill. Filed July 9, 1921.



Particular description of goods.—Candies.
Claims use since May 30, 1921.

Ser. No. 150,187. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE COLOMBIAN BAX CO., Amsterdam, N. Y. Filed July 9, 1921.

Colombian Bax

Particular description of goods.—Liquid for the Treatment of Freckles, Alphus, Sunburn, Eczema, Scabs, Dandruff, Falling Out of the Hair, Pustules, Perspiration of the Feet and other Parts of the Body, the Bites and Stings of Insects, Chaps, Bruises, or Swelling.
Claims use since about Apr. 12, 1921.

Ser. No. 150,193. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GUYTON FISHER, Jr., Macon, Ga. Filed July 9, 1921.

DISCOVERINES

Particular description of goods.—A Medicinal Preparation in Tablet Form for Internal Use as a Treatment for Headache, Neuralgia, Rheumatism, La Grippe, Colds, and Coughs and for the Relief of Pain in General.
Claims use since Nov. 13, 1919.

Ser. No. 150,197. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LONSDALE COMPANY, Providence, R. I. Filed July 9, 1921. Under ten-year proviso.



Particular description of goods.—Cotton Goods in the Piece.
Claims use since on or before Jan. 1, 1861.

Ser. No. 150,202. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE NATIONAL HERB MEDICINE COMPANY OF MISSOURI, St. Louis, Mo. Filed July 9, 1921.



The drawing is lined to indicate green.
Particular description of goods.—Female Tonic.
Claims use since May 15, 1921.

Ser. No. 150,221. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHASE CHEMICAL COMPANY, Danville, Ill. Filed July 11, 1921.

CHASE'S MIRACLE

Particular description of goods.—A Preparation for Excessive Perspiration.
Claims use since July 1, 1920.

Ser. No. 150,226. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALLAN J. DASH COMPANY, INC., Rochester, N. Y. Filed July 11, 1921.



Particular description of goods.—A Medicine for Nervous Prostration and Exhaustion, Mental Depression, Unstrung Nerves, Anemia, Chlorosis, Nervous Dyspepsia, Tonic for Strengthening a Weakened and Exhausted Body and Brain and General Debilities.
Claims use since Feb. 1, 1921.

Ser. No. 150,228. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FEDERAL MILL & ELEVATOR CO., INC., Lockport, N. Y. Filed July 11, 1921.



Particular description of goods.—Wheat Flour.
Claims use since Apr. 18, 1921.

Ser. No. 150,245. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) MIGHTYBONE CORPORATION OF NEW YORK, Detroit, Mich. Filed July 11, 1921.

FASHONBONE

Particular description of goods.—Boning, Steels, and Staying Materials.
Claims use since June 15, 1921.

Ser. No. 150,243. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BOSTON PRESSED METAL COMPANY, Worcester, Mass. Filed July 12, 1921.

DREDNOT

Particular description of goods.—Last-Thimbles.
Claims use since May 28, 1921.

Ser. No. 150,281. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) CECILIA MOTKEWECZ, New York, N. Y. Filed July 12, 1921.

31

Particular description of goods.—Malt Extracts.
Claims use since Jan. 16, 1920.

Ser. No. 150,314. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HANNIBAL PHARMACAL COMPANY, St. Louis, Mo. Filed July 13, 1921.

Neet

Particular description of goods.—Toilet Articles—Namely, Depilatories and Antiperspirants.
Claims use since on or about the 10th day of March, 1919.

Ser. No. 150,360. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RUFUS JOHNSON, Lake Wood, N. J. Filed July 14, 1921.

KE-TU-RAH



The portrait shown being that of myself.
Particular description of goods.—Medicines for the Treatment of Eczema, Ringworm, Burning Feet, Rheumatism, Tired and Aching Feet, and Pains of All Kinds.
Claims use since Nov. 20, 1920.

Ser. No. 150,382. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF.) J. H. WILLIAMS & CO., Brooklyn, N. Y. Filed July 14, 1921.

SUPERJUSTABLE

Particular description of goods.—Wrenches, Tool-Holders, Lathe-Dogs, Clamps.
Claims use since May 13, 1921.

Ser No. 150,406. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) NORTON COMPANY, Worcester, Mass. Filed July 15, 1921. Under ten-year proviso.

NORTON

Particular description of goods.—Grinding-Machines and Attachments Thereto.
Claims use since August, 1888.

Ser. No. 150,408. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PURITY CREAM CHEESE COMPANY, Cleveland, Ohio. Filed July 15, 1921.

"LIPTAUER"



Particular description of goods.—Brindza Cheese.
Claims use since June 19, 1902.

Ser. No. 150,509. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WLADYSLAW BORKOWSKI, Brooklyn, N. Y. Filed July 18, 1921.



Wladyslaw Borkowski

The portrait appearing on the drawing is that of the applicant.

Particular description of goods.—Compound for Relieving Fever.

Claims use since Feb. 1, 1921.

Ser. No. 150,510. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE CONLEY FOIL COMPANY, New York, N. Y. Filed July 18, 1921.



Particular description of goods.—Decoration Made of Shredded Tin-Foil Suitable for Ornamentation of Christmas Trees.

Claims use since May 27, 1921.

Ser. No. 150,515. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CROWN REMEDY COMPANY, Dallas, Tex. Filed July 18, 1921.

FLUVENTIS

Particular description of goods.—A Medicine Used in the Treatment of Catarrhal Conditions.

Claims use since May 27, 1920.

Ser. No. 150,516. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CROWN REMEDY COMPANY, Dallas, Tex. Filed July 18, 1921.

FERRASAL

Particular description of goods.—Stomach Remedy as a Stomach Aid, an Eliminant, an Anti-Acid, a Laxative, Alterative, and Diuretic.

Claims use since May 27, 1921.

Ser. No. 150,517. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CROWN REMEDY COMPANY, Dallas, Tex. Filed July 18, 1921.

VERADIUM

Particular description of goods.—Antiseptic Lotion.

Claims use since May 27, 1920.

Ser. No. 150,518. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CROWN REMEDY COMPANY, Dallas, Tex. Filed July 18, 1921.

RADIOLENE

Particular description of goods.—Healing-Ointment.

Claims use since May 27, 1920.

Ser. No. 150,604. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE FOX RIVER BUTTER CO., INC., New York, N. Y. Filed July 19, 1921.

Lily

Particular description of goods.—Creamery-Butter.

Claims use since January, 1907.

Ser. No. 150,612. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LAXIN MARTEN REMBARD VVE. GERMOVELLE, Asnieres, France. Filed July 19, 1921.



No claim being made to the words "Jasmin Blanc" apart from the mark shown on the drawing.

Particular description of goods.—Perfumes, Toilet Waters, and Brilliantine.

Claims use since 1910.

Ser. No. 150,627. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MACLACHLAN-FOWLER BAKING CO., Hibbing, Minn. Filed July 19, 1921.



The picture being fanciful.

Particular description of goods.—Bread.

Claims use since May 27, 1921.

Ser. No. 150,638. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE SOUTHERN COTTON OIL COMPANY, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga., and Chicago, Ill. Filed July 19, 1921.



The trade mark consists of the word "Sco-Co" in a wreath, and underneath the word "Sco-Co" appear the words "Trade Mark," and underneath the wreath appear the words "Paint Specialties," as shown in the accompanying drawing. No claim is made for the words "Trade Mark" and "Paint Specialties" apart from the mark shown in the accompanying drawing.

Particular description of goods.—Dry Paints, Paste Paints, and Ready-Mixed Paints.

Claims use since about January, 1909.

Ser. No. 150,647. (CLASS 2. RECEPTACLES.) WESTERN COOPERAGE CO., Portland, Oreg. Filed July 19, 1921.



The words "U. S. A., Hard Fir," apart from the mark as shown, are disclaimed.

Particular description of goods.—Tight Barrels and Kegs and Staves and Heading Therefor Made of Fir.

Claims use since May 6, 1921.

Ser. No. 150,659. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) CALIFORNIA COTTON MILLS COMPANY, Oakland, Calif. Filed July 20, 1921.



Particular description of goods.—Cotton Mops.

Claims use since Nov. 20, 1914.

Ser. No. 150,712. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ADAMS & HELSMAN, Whitefish, Mont. Filed July 21, 1921.

AH

Particular description of goods.—Salve for Treatment of Piles, Catarrh, Eczema, Burns and Scalds, Sore Lips, &c.
Claims use since Aug. 1, 1919.

Ser. No. 150,731. (CLASS 5. ADHESIVES.) CLINTON & CAMERON, South Boston, Mass. Filed July 21, 1921.

TRADE MARK

No claim is made to the words "Trade-Mark."
Particular description of goods.—A Liquid Compound for Sealing Punctures and Slow Leaks in Pneumatic Tires.
Claims use since May 1, 1921.

Ser. No. 150,734. (CLASS 22. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN C. DETTRA, Oaks, Pa. Filed July 21, 1921.

Little Wonder

Particular description of goods.—Hedge-Trimmers.
Claims use since on or about June 13, 1921.

Ser. No. 150,801. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CENTENNIAL MILL COMPANY, Seattle and Spokane, Wash. Filed July 22, 1921.

EL PACIFICO

Particular description of goods.—Wheat-Flour.
Claims use since 1910.

Ser. No. 150,819. (CLASS 38. PRINTS AND PUBLICATIONS.) MONROE CALCULATING MACHINE COMPANY, New York, N. Y. Filed July 22, 1921.

Results

Consisting of the word "Results."
Particular description of goods.—An Inter-Office Organ and Advertising Magazine Issued Monthly Throughout the Year.
Claims use since Oct. 25, 1915.

Ser. No. 150,820. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MURESCO VARNISH COMPANY, Newark, N. J. Filed July 22, 1921.

MURONIC

Particular description of goods.—White and Colored Paint Enamels.
Claims use since July 5, 1921.

Ser. No. 150,821. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE OKLAHOMA MILL CO., Kingfisher, Okla. Filed July 22, 1921.

TORNADO

Particular description of goods.—Wheat-Flour.
Claims use since June 18, 1921.

Ser. No. 150,827. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROSS-ROSS CO., Sioux City, Iowa. Filed July 22, 1921.

ROBB ROSS

Particular description of goods.—Food-Flavoring Extracts, Peanut-Butter, Vinegar, Mustard, Table-Syrup, Jelly-Powder, Pancake-Flour, and Powdered Sugar.
Claims use since June 1, 1920.

Ser. No. 150,837. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARTHUR C. WILSON, Brevard, N. C. Filed July 22, 1921.

EL-K-LIX

Particular description of goods.—A General Tonic and Blood Preparation.
Claims use since Oct. 20, 1920.

Ser. No. 150,839. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) JOSEPH WEINSMAN, Brooklyn, N. Y. Filed July 22, 1921.

Wash-O

Particular description of goods.—Catamenial Napkins.
Claims use since July, 1919.

Ser. No. 150,851. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) HAGEN BOESEL, Chicago, Ill.

HOME MAID

Filed July 23, 1921.
Particular description of goods.—Liquid Malt Extract.
Claims use since May 1, 1921.

Ser. No. 150,953. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HAROLD C. DURAR, Plainfield, N. J. Filed July 23, 1921.

THE SESSNIC MFG. CO. PLAINFIELD N.J. U.S.A.

No claim being made to the exclusive use of the words "Plainfield, N. J., U. S. A." apart from the mark shown in the drawing.
Particular description of goods.—Antiseptic Ointment.
Claims use since October, 1898.

Ser. No. 150,956. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT J. GATES, New York, N. Y. Filed July 23, 1921.

GATES

Particular description of goods.—Medicine for the Relief of Catarrh, Headache, Earache, Rheumatism, the Sciatic Nerve, Backache, Neuralgia, Gout, Stiff Neck, and Sprained Joints.
Claims use since October, 1920.

Ser. No. 151,029. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BROWN COMPANY, Portland, Me., and Berlin, N. H. Filed July 28, 1921.

Ici-Set

Particular description of goods.—Icings, Coatings, and Fillings.
Claims use since June 20, 1921.

Ser. No. 151,077. (CLASS 38. PRINTS AND PUBLICATIONS.) RAPID-WESTON PHOTO SYSTEMS INC., Chicago, Ill. Filed July 28, 1921.

Fotostyx

Particular description of goods.—Gummed Photographs for Advertising Purposes.
Claims use since July 1, 1919.

Ser. No. 151,091. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PETER CAILLER KOHLER SWISS CHOCOLATES CO., INC., New York, N. Y. Filed July 29, 1921.



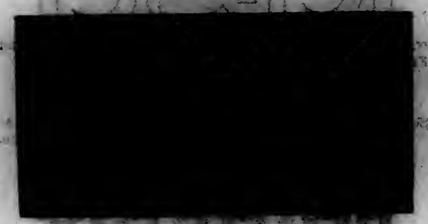
Particular description of goods.—Milk-Chocolate and Cocoa.
Claims use since 1900.

Ser. No. 151,207. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEE B. CONWELL, New York, N. Y. Filed Aug. 1, 1921.

HAIROLA

Particular description of goods.—Hair-Straightener.
Claims use since June 15, 1921.

Ser. No. 151,209. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HELENA DARVAS, Chicago, Ill. Filed Aug. 1, 1921.



No claim is made to the words "Eye Drops" and "Trade Mark" apart from the mark as shown in the drawing.
Particular description of goods.—Eye Medicine.
Claims use since Jan. 1, 1918.

Ser. No. 151,289. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PURITAN PHARMACEUTICAL CO., St. Louis, Mo. Filed Aug. 2, 1921.

MAXAM

The shading in the drawing represents the color red.
Particular description of goods.—Kidney and Bladder Pills, Toothache-Drops, Corn and Wart Remedy, Liver-Pills, Liniment for External Treatment of Sprains, Bruises, Sore Muscles, Rheumatism, Lumbago, Backache, Neuralgia, and Stiff Neck and to Assist in Relieving Congestion in Common Sore Throat, Bronchitis, and Headache; Cough-Syrup, Antiseptic Healing-Oil, Castoria, Carbolic Salve, Caesara-Quinin.
Claims use since May 25, 1921.

Ser. No. 151,336. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OHIO VALLEY DRUG COMPANY, Wheeling, W. Va. Filed Aug. 3, 1921.

TERBECO

No claim is made to the words and abbreviations "Syr. Terebene Comp."
Particular description of goods.—Syrup Terebene Compound.
Claims use since June 1, 1921.

Ser. No. 151,380. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. EICHMAN & Co., New York, N. Y. Filed Aug. 4, 1921.



Particular description of goods.—Cotton Piece Goods, Silk Piece Goods, and Piece Goods Made of Cotton and Silk.
Claims use since June 24, 1921.

Ser. No. 151,393. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE RHODE CHEMICAL LABORATORIES, Orlando, Fla. Filed Aug. 4, 1921.



Particular description of goods.—A Medicated Powder for the Treatment of Pyorrhea.
Claims use since May 1, 1921.

Ser. No. 151,484. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE CHIMIQUE DES USINES DU RHONE, Paris, France. Filed Aug. 5, 1921.

ASCIATINE

Particular description of goods.—A Hypnotic Analgesic.
Claims use since Nov. 27, 1916.

Ser. No. 151,485. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE CHIMIQUE DES USINES DU RHONE, Paris, France. Filed Aug. 5, 1921.

RHOFEINE

Particular description of goods.—An Antirheumatic Analgesic.
Claims use since July 4, 1917.

Ser. No. 151,486. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE CHIMIQUE DES USINES DU RHONE, Paris, France. Filed Aug. 5, 1921.

SCURENALINE

Particular description of goods.—A Preparation for Causing Narrowness of Blood Vessels.
Claims use since Mar. 20, 1918.

Ser. No. 151,487. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE CHIMIQUE DES USINES DU RHONE, Paris, France. Filed Aug. 5, 1921.

SCUROFORME

Particular description of goods.—A Local Anesthetic.
Claims use since Sept. 5, 1919.

Ser. No. 151,488. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE CHIMIQUE DES USINES DU RHONE, Paris, France. Filed Aug. 5, 1921.

URAZINE

Particular description of goods.—A Preparation for the Treatment of Gout.
Claims use since June 14, 1920.

Ser. No. 151,489. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE CHIMIQUE DES USINES DU RHONE, Paris, France. Filed Aug. 5, 1921.

RHODARSAN

Particular description of goods.—A Trypanocid.
Claims use since Dec. 1, 1920.

Ser. No. 151,560. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PANREX MANUFACTURING CO., Chicago, Ill. Filed Aug. 8, 1921.

PANREX

Particular description of goods.—Shoe-Polishes, Kid-Cleaners, and Leather-Dressings.
Claims use since Jan. 15, 1917.

Ser. No. 151,562. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) RIVER NILE COMPANY, San Francisco, Calif. Filed Aug. 8, 1921.

RIVER NILE

Particular description of goods.—Non-Alcoholic, Malt-less Beverage Similar to Soda-Water Sold as a Soft Drink.
Claims use since Apr. 26, 1921.

Ser. No. 151,618. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE ESPREM COMPANY, New York, N. Y. Filed Aug. 10, 1921.

PEACH BLOOM

Particular description of goods.—Powder-Puffs.
Claims use since Apr. 1, 1921.

Ser. No. 151,679. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LIQASPRIN COMPANY, Brooklyn, N. Y. Filed Aug. 11, 1921.

LIQASPRIN

Particular description of goods.—A Preparation for Headache, Colds, Neuralgia, Lumbago, Rheumatism, Sciatica, Backache, and Earache.
Claims use since July 15, 1921.

Ser. No. 151,733. (CLASS 15. OILS AND GREASES.) WELL & ROGERS CANDLE CO., Inc., Syracuse, N. Y. Filed Aug. 12, 1921.

EXCELO

Particular description of goods.—Candles.
Claims use since about July 1, 1916.

Ser. No. 151,752. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SAMUELS & HILDER BROS., New York, N. Y. Filed Aug. 13, 1921.

—The—
Hollywood

Particular description of goods.—Hair-Nets.
Claims use since June 14, 1921.

Ser. No. 151,776. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) AUTOMOTIVE SUPPLY MANUFACTURING COMPANY, Dallas, Tex. Filed Aug. 15, 1921.

CACTUS

Particular description of goods.—Paint and Enamel Dissolving and Disintegrating Preparations.
Claims use since about June 15, 1920.

Ser. No. 151,872. (CLASS 15. OILS AND GREASES.) FLETCHER OIL COMPANY, Boise, Idaho. Filed Aug. 17, 1921.

Veltex

Particular description of goods.—For All Petroleum Products—Namely, Lubricating-Oils, Lubricating-Greases, and Gasolene.
Claims use since Nov. 1, 1920.

Ser. No. 151,881. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) FRANK A. MONSON, Jamestown, N. Y. Filed Aug. 17, 1921.

T.A.F.

Particular description of goods.—Sterilized Medicated Fiber for Toothache and Earache.
Claims use since Nov. 18, 1918.

Ser. No. 151,925. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) SEABO & BEEB, New York, N. Y. Filed Aug. 18, 1921.

PRETICULATOR

Particular description of goods.—Dental Articulators.
Claims use since Apr. 10, 1921.

Ser. No. 151,957. (CLASS 15. OILS AND GREASES.) PENNSYLVANIA PETROLEUM COMPANY, Kansas City, Mo. Filed Aug. 19, 1921.

Pencoil

Particular description of goods.—Motor-Lubricating Oil.
Claims use since about May 15, 1921.

Ser. No. 152,011. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE GRADY MFG. CO., Long Island City, N. Y. Filed Aug. 22, 1921.

GRADA
(GRADA)

Particular description of goods.—Tile and Porcelain Cleanser.
Claims use since September, 1917.

Ser. No. 152,046. (CLASS 38. PRINTS AND PUBLICATIONS.) WILLIAM B. THOMPSON, Los Angeles, Calif. Filed Aug. 22, 1921.

—THE—
ZONERY SYSTEM

Particular description of goods.—Semi-Annual Magazine.
Claims use since Aug. 1, 1920.

Ser. No. 152,084. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) S. MAW, SON AND SONS, LIMITED, London, England. Filed Aug. 23, 1921.

TRANSECURA

Particular description of goods.—Teats for Feeding-Bottles, Baby-Soothers, and Teething-Rings.
Claims use since Oct. 29, 1920.

Ser. No. 152,121. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo. Filed Aug. 24, 1921.

VICTORIA

Particular description of goods.—Sheets and Pillow-Cases.
Claims use since January, 1900.

Ser. No. 152,134. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MASSASOIT MANUFACTURING COMPANY, Fall River, Mass. Filed Aug. 24, 1921.

MASCO

Particular description of goods.—For Wiping, Polishing, and Cleaning Cloths.
Claims use since Feb. 24, 1920.

Ser. No. 152,150. (CLASS 38. PRINTS AND PUBLICATIONS.) GEORGE F. WEEKS, Washington, D. C. Filed Aug. 24, 1921.

MEXICAN REVIEW

Particular description of goods.—A Magazine Published Monthly.
Claims use since Oct. 1, 1916.

Ser. No. 152,165. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE ELECTRIC SMELTING & ALUMINUM CO. INC., Lockport, N. Y. Filed Aug. 25, 1921.

ES CO

Particular description of goods.—Soluble Chemical Compounds for Use as Detergents with and without the Additions of Soap.
Claims use since December, 1916.

Ser. No. 152,209. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) LEE BROOM & DUSTER COMPANY, Lincoln, Nebr. Filed Aug. 26, 1921.

B S

Particular description of goods.—Brooms.
Claims use since about July 16, 1921.

Ser. No. 152,259. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LOS ANGELES SOAP CO., Los Angeles, Calif. Filed Aug. 27, 1921.



(RAMONA'S HOME)

Particular description of goods.—Toilet Soap.
Claims use since 1899.

Ser. No. 152,265. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LOS ANGELES SOAP CO., Los Angeles, Calif. Filed Aug. 27, 1921.



Particular description of goods.—Laundry Soap.
Claims use since 1895.

Ser. No. 152,266. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) Los Angeles Soap Co., Los Angeles, Calif. Filed Aug. 27, 1921.

MERMAID



Particular description of goods.—Washing-Powder.
Claims use since 1896.

Ser. No. 152,290. (CLASS 15. OILS AND GREASES.) The Texas Company, Houston, Tex., and New York, N. Y. Filed Aug. 27, 1921.

ZENITH

Particular description of goods.—Gasolene and Motor-Fuel Oils.
Claims use since Aug. 22, 1911.

Ser. No. 152,306. (CLASS 38. PRINTS AND PUBLICATIONS.) Charles S. Berriman, New York, N. Y. Filed Aug. 29, 1921.



Particular description of goods.—A Periodical Published Monthly.
Claims use since Jan. 1, 1899.

Ser. No. 152,319. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) The Electric Smelting & Aluminum Co., Inc., Lockport, N. Y. Filed Aug. 29, 1921.



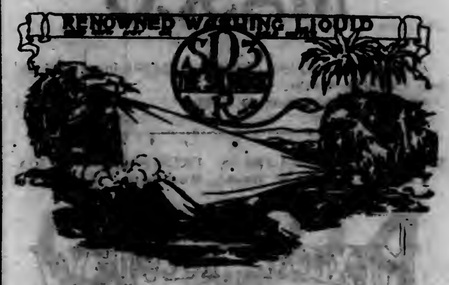
Particular description of goods.—Soluble Chemical Compounds for Use as Detergents, with and without the Addition of Soap.
Claims use since December, 1916.

Ser. No. 152,284. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) Alfred Lucati, New York, N. Y. Filed Aug. 29, 1921.



The descriptive words "Great Liquid for Cleaning Floors" and "Reg. U. S. Pat. Off." are disclaimed as part of mark shown on the drawing.
Particular description of goods.—A Liquid for Cleaning the Floors.
Claims use since Aug. 1, 1920.

Ser. No. 152,336. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) Alfred Lucati, New York, N. Y. Filed Aug. 29, 1921.



Applicant disclaims the descriptive words "Renowned Washing Liquid Used with Hot or Cold Water" and "Reg. U. S. Pat. Off." as part of the mark shown in the drawing.
Particular description of goods.—Clothes-Washing Liquid Used with Hot or Cold Water.
Claims use since Aug. 1, 1920.

Ser. No. 152,473. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) George L. McCarthy, New York, N. Y. Filed Sept. 1, 1921.



No claim is made to the word "Cards" apart from the mark shown in the drawing.
Particular description of goods.—Playing-Cards.
Claims use since Aug. 26, 1921.

Ser. No. 152,485. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) Samstag & Hilder Bros., New York, N. Y. Filed Sept. 1, 1921.



Particular description of goods.—Glass and Metal Beads.
Claims use since June 1, 1920.

Ser. No. 152,506. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) Keen Kola Manufacturing Company, Dallas, Tex. Filed Sept. 2, 1921.

Tay

Particular description of goods.—A Non-Alcoholic, Non-Cereal, Maltless Beverage Sold as Soft Drinks and Syrups for Making the Same.
Claims use since Jan. 1, 1918.

Ser. No. 152,508. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) Kitchen Products Co., Brooklyn, N. Y. Filed Sept. 2, 1921.

KPCo

Particular description of goods.—Stove-Polish.
Claims use since July 14, 1921.

Ser. No. 152,520. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) Robert J. Shine, Hagerstown, Md. Filed Sept. 2, 1921.

RED EYE

Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverage Sold as a Soft Drink and Syrup for Making the Same.
Claims use since Jan. 1, 1920.

Ser. No. 152,540. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) COLUMBIA GRAPHOPHONE MANUFACTURING COMPANY, New York, N. Y. Filed Sept. 3, 1921.



Particular description of goods.—Brushes for Phonograph-Records.
Claims use since on or about July 16, 1920.

Ser. No. 152,597. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TILTON & KEELER, INC., New York, N. Y. Filed Sept. 3, 1921.

RATINSPUN

Consisting of the word "Ratinspun."
Particular description of goods.—Cotton Suiting in the Piece.
Claims use since July 29, 1921.

Ser. No. 152,608. (CLASS 38. PRINTS AND PUBLICATIONS.) EASTMAN KODAK COMPANY, Rochester, N. Y. Filed Sept. 6, 1921.

KODAKERY

Particular description of goods.—A Monthly Magazine.
Claims use since Sept. 1, 1913.

Ser. No. 152,651. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DANIEL T. PATTON AND COMPANY, Grand Rapids, Mich. Filed Sept. 6, 1921.

KLEANPAK

Particular description of goods.—Handkerchiefs.
Claims use since July 2, 1920.

Ser. No. 152,662. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ARTHUR BLACK, Toledo, Ohio. Filed Sept. 7, 1921.

KOASTER KID

Particular description of goods.—Dolls.
Claims use since June 1, 1921.

Ser. No. 152,739. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CASTER DRY GOODS CO., Louisville, Ky. Filed Sept. 9, 1921.

SHAWNEE



The lining shown is for shading.
Particular description of goods.—Sheeting, Sheets, and Pillow-Cases.
Claims use since Apr. 26, 1921.

Ser. No. 152,771. (CLASS 38. PRINTS AND PUBLICATIONS.) SCIENCE SERVICE, INCORPORATED, Wilmington, Del., and Washington, D. C. Filed Sept. 9, 1921.



SCIENCE SERVICE

Particular description of goods.—Publications or Scientific News-Bulletins Published or Issued Periodically.
Claims use since Apr. 4, 1921.

Ser. No. 152,936. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) G. SIDENBERG & Co., New York, N. Y. Filed Sept. 14, 1921. Under ten-year proviso.

FAVORITE

Particular description of goods.—Rullings and Plaitings for Neckwear and Trimmings.
Claims use since 1870.

Ser. No. 153,062. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) RAFAEL ESCOFET Y HAAG, Tarragona, Spain. Filed Sept. 19, 1921.



Particular description of goods.—Unfermented Grape-Juice and Unfermented Juice of other Fruits.
Claims use since February, 1909.

Ser. No. 153,133. (CLASS 38. PRINTS AND PUBLICATIONS.) THE ESSEX PRESS, INC., Newark, N. J. Filed Sept. 20, 1921.



Particular description of goods.—Books, Booklets, Pamphlets, Catalogues, Printed and Engraved Matter, and Similar Publications.
Claims use since Sept. 1, 1921.

Ser. No. 153,145. (CLASS 38. PRINTS AND PUBLICATIONS.) THE KENSINGTON BULLETIN, Philadelphia, Pa. Filed Sept. 20, 1921.

The KENSINGTON BULLETIN

Particular description of goods.—Weekly Publication.
Claims use since early in May, 1921.

Ser. No. 153,455. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE HUTMACHER BRAIDING COMPANY, Paterson, N. J. Filed Sept. 28, 1921.

Sure-typ

The word "Sure-Typ."
Particular description of goods.—Shoe-Laces.
Claims use since May 21, 1921.

Ser. No. 153,456. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE HUTMACHER BRAIDING COMPANY, Paterson, N. J. Filed Sept. 28, 1921.

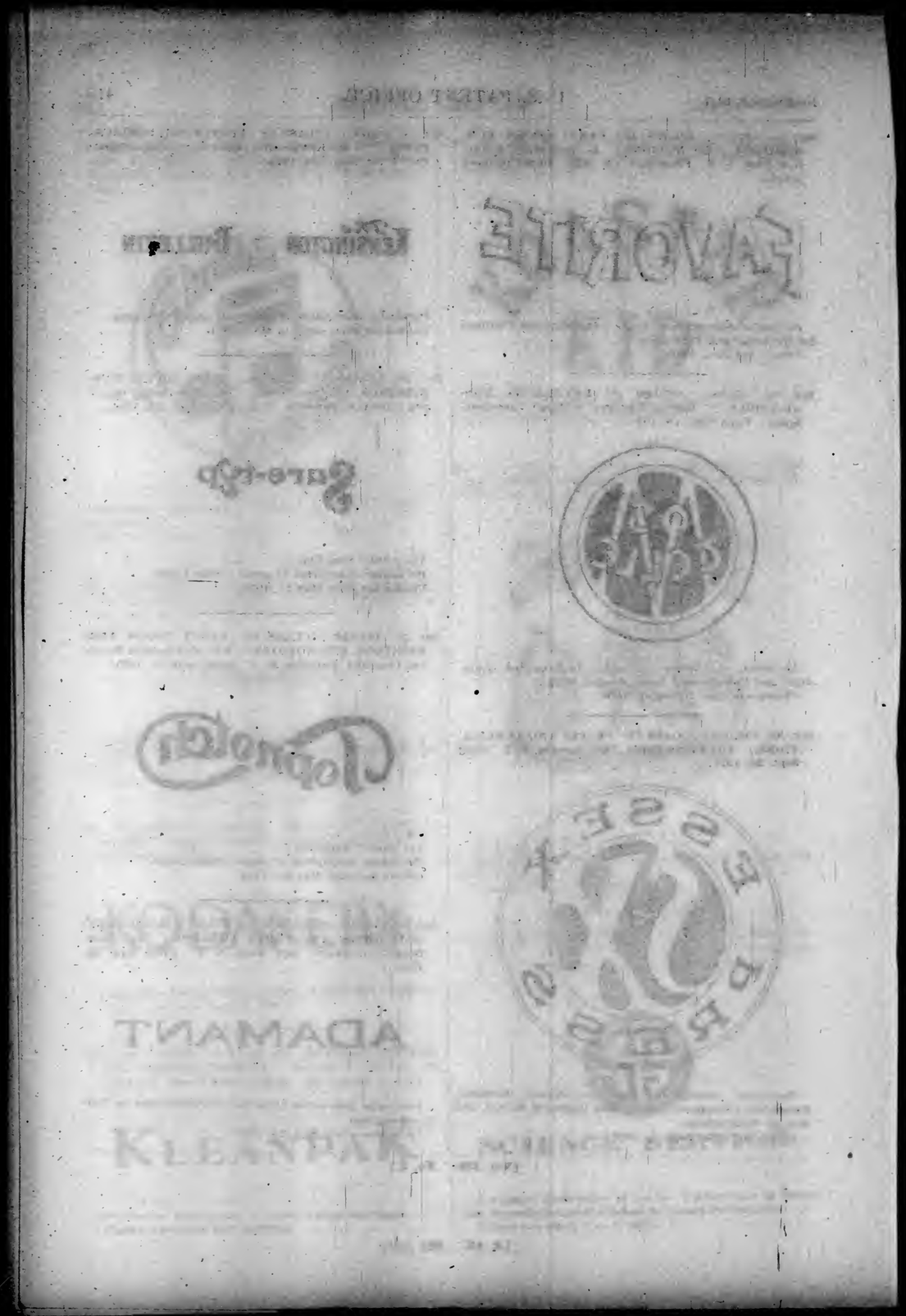
Topnotch

The word "Topnotch."
Particular description of goods.—Shoe-Laces.
Claims use since May 21, 1921.

Ser. No. 153,513. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MITCHELL-BISSELL COMPANY, New York, N. Y. Filed Sept. 29, 1921.

ADAMANT

Particular description of goods.—Thread-Guides for Textile Machinery.
Claims use since Sept. 17, 1901.



TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

NOVEMBER 8, 1921.

147,893. ANESTHETIC COMPOUND. THE ABBOTT LABORATORIES, Chicago, Ill.
Filed April 1, 1921. Serial No. 145,543. PUBLISHED JULY 12, 1921.

147,894. CANNED FISH. N. ABRAMOVITZ & CO. INC., New York, N. Y.
Filed February 1, 1921. Serial No. 143,031. PUBLISHED JUNE 28, 1921.

147,895. LATCH-NEEDLES FOR KNITTING-MACHINES. GEO. H. ADAMS CO., Waltham, Mass., and Hill, N. H.
Filed March 16, 1921. Serial No. 144,793. PUBLISHED JUNE 28, 1921.

147,896. ARTIFICIAL BAIT. S. ALLCOCK & CO. LIMITED, Redditch, England.
Filed January 9, 1918. Serial No. 108,866. PUBLISHED JUNE 28, 1921.

147,897. CANDY. ALPINE CHOCOLATES COMPANY, Boston, Mass.
Filed April 15, 1921. Serial No. 146,193. PUBLISHED JULY 26, 1921.

147,898. LAMP-SOCKETS MADE OF ALUMINIUM FOR ELECTRICAL FIXTURES. ALUMINIUM-WALZWERKE A.-G., Schaffhausen, Switzerland.
Filed October 26, 1920. Serial No. 138,802. PUBLISHED JULY 5, 1921.

147,899. SUGAR WAFERS IN CAKE FORM AND CAKES. AMERICAN BISCUIT COMPANY, San Francisco, Calif.
Filed December 13, 1920. Serial No. 140,978. PUBLISHED JULY 19, 1921.

147,900. COTTON PIECE GOODS. AMERICAN BLEACHED GOODS COMPANY, New York, N. Y.; Chicago, Ill., and St. Louis, Mo.
Filed March 19, 1921. Serial No. 144,954. PUBLISHED JUNE 21, 1921.

147,901. WIRE CLOTH AND NETTING. THE AMERICAN CELLULOSE & CHEMICAL MANUFACTURING COMPANY, LIMITED, New York, N. Y.
Filed February 2, 1921. Serial No. 143,078. PUBLISHED JULY 5, 1921.

147,902. CORSETS AND BRASSIÈRES. AMERICAN LADY CORSET CO., Detroit, Mich.
Filed March 14, 1921. Serial No. 144,703. PUBLISHED JUNE 28, 1921.

147,903. WHEAT-FLOUR. AMERICAN LEVANT SYNDICATE INC., New York, N. Y.
Filed February 5, 1921. Serial No. 143,197. PUBLISHED JULY 12, 1921.

147,904. WEEKLY PERIODICALS AND PUBLICATIONS. THE AMERICAN LUMBERMAN, Chicago, Ill.
Filed March 7, 1921. Serial No. 144,371. PUBLISHED JUNE 14, 1921.

147,905. THERMOMETERS AND STEAM-PRESSURE AND ALTITUDE GAGES. AMERICAN RADIATOR COMPANY, East Orange, N. J., and Chicago, Ill.
Filed November 13, 1920. Serial No. 139,611. PUBLISHED JULY 5, 1921.

147,906. COATS AND SUITS FOR MEN AND WOMEN IN ONE, TWO, AND THREE PIECE GARMENTS. ANGORA SPECIALTY CO. INC., Brooklyn, N. Y.
Filed November 27, 1920. Serial No. 140,240. PUBLISHED JULY 5, 1921.

147,907. TOILET PREPARATIONS—NAMELY, FACE-POWDER, ROUGE, GREASE PAINT, AND LIP-STICKS. THE ARAHO CO. INC., New York, N. Y.
Filed February 7, 1921. Serial No. 143,243. PUBLISHED JUNE 21, 1921.

147,908. INSECT-POWDER. A. J. ARCHIBALD CO., INC., New York, N. Y.
Filed March 16, 1921. Serial No. 144,796. PUBLISHED JULY 12, 1921.

147,909. STEEL CASTINGS AND FORGINGS. ARGOS STEEL PRODUCTS CORP., New York, N. Y.
Filed June 18, 1919. Serial No. 119,727. PUBLISHED JUNE 28, 1921.

147,910. COTTON PIECE GOODS. ARMSTRONG, SAGAR & CO., Manchester, England.
Filed October 9, 1920. Serial No. 138,117. PUBLISHED JULY 12, 1921.

147,911. STEEL BARS. THE ARTHUR BALFOUR STEEL CO. INC., Wilmington, Del., and Boston, Mass.
Filed October 7, 1920. Serial No. 138,040. PUBLISHED JULY 12, 1921.

147,912. TALKING-MACHINE RECORDS. THE ARTO CO., Orange, N. J.
Filed March 31, 1921. Serial No. 145,491. PUBLISHED JULY 12, 1921.

147,913. PETROLEUM PRODUCTS—NAMELY, GASOLENE, ENGINE-DISTILLATE, KEROSENE, FUEL-OIL, AND PETROLEUM LUBRICATING OILS AND GREASES. ASSOCIATED OIL COMPANY, San Francisco, Calif.
Filed January 10, 1921. Serial No. 142,003. PUBLISHED JULY 12, 1921.

147,914. METAL-DRILLING MACHINES, AND PARTICULARLY ON UPRIGHT DRILLS AND ATTACHMENTS THEREFOR. AURORA TOOL WORKS, Aurora, Ind.
Filed March 5, 1921. Serial No. 144,306. PUBLISHED JUNE 28, 1921.

147,915. MAGAZINES PUBLISHED MONTHLY. AUTOMOBILE CLUB OF ST. LOUIS, St. Louis, Mo.
Filed April 25, 1921. Serial No. 146,677. PUBLISHED JULY 5, 1921.

147,916. TOILET SOAPS. HARRIET HUBBARD AYER, New York, N. Y.
Filed April 23, 1921. Serial No. 146,621. PUBLISHED JULY 5, 1921.

147,917. CHECK-BOOKS, BANK-BOOKS, SAVINGS-BANK BOOKS, CHECKS, DRAFTS, BILLS, AND NOTES. BANKERS PUBLICITY COMPANY, St. Louis, Mo.
Filed February 28, 1921. Serial No. 144,123. PUBLISHED JUNE 7, 1921.

147,918. WIRE BASKETS. BARBER WIRE & IRON WORKS, La Fayette, Ind., and Chicago, Ill.
Filed July 25, 1919. Serial No. 120,908. PUBLISHED JUNE 21, 1921.

147,919. LEG-RINGS USED AS POULTRY-MARKERS. MAX BAYERDORFFER, Huguenot Park, N. Y.
Filed April 6, 1921. Serial No. 145,766. PUBLISHED JULY 5, 1921.

147,920. HAIR-CURLERS. BLANCHE E. BEADLE, Springfield, Mass.
Filed August 11, 1919. Serial No. 121,516. PUBLISHED JUNE 14, 1921.

147,921. WALL-PAPERS. CROSS & BEARDSLEY, New Haven, Conn.
Filed March 3, 1921. Serial No. 144,276. PUBLISHED JUNE 28, 1921.

147,922. THREAD AND YARN. BESSEMER COTTON MILLS INC., Monroe, N. C.
Filed November 15, 1919. Serial No. 124,927. PUBLISHED MARCH 23, 1920.

147,923. LATHES AND AUTOMATIC LATHES, PARTS THEREOF, AND TOOLS FOR SAID LATHES. ANDRÉ BECHLER, Moutier, Switzerland.
Filed January 12, 1921. Serial No. 142,121. PUBLISHED JULY 12, 1921.

147,924. MAGNET-WIRES. BELDEN MANUFACTURING COMPANY, Chicago, Ill.
Filed March 25, 1921. Serial No. 145,203. PUBLISHED JUNE 7, 1921.

147,925. WASHING FLUIDS. F. BENEDETTI & A. VANNOZZI & Co. Trenton, N. J.
Filed April 19, 1921. Serial No. 146,366. PUBLISHED JUNE 14, 1921.

147,926. VELVETS IN THE PIECE. BENNETT AND ASPDEN COMPANY, Philadelphia, Pa.
Filed January 3, 1921. Serial No. 141,760. PUBLISHED JULY 12, 1921.

147,927. MAGNET-WIRES. BELDEN MANUFACTURING COMPANY, Chicago, Ill.
Filed March 25, 1921. Serial No. 145,204. PUBLISHED JUNE 7, 1921.

147,928. PIECE GOODS OF SILK. BIANCHINI, FÉRIER, Lyon, France.
Filed April 8, 1920. Serial No. 130,790. PUBLISHED MAY 31, 1921.

147,929. PRINTED PUBLICATIONS DESCRIBING AND RELATING TO THEATRICAL, MUSICAL, MOTION-PICTURE, AND GENERAL AMUSEMENT ENTERPRISES, PUBLISHED MONTHLY. BLAKE & AMBER, San Francisco, Calif.
Filed February 24, 1920. Serial No. 128,817. PUBLISHED JULY 5, 1921.

147,930. THREADS OF FLAX, HEMP, TOW, AND RAMIE OR CHINA-GRASS. THE BLACKSTAFF FLAX SPG. & WVG. CO. LTD., Belfast, Ireland.
Filed February 2, 1920. Serial No. 127,794. PUBLISHED JULY 5, 1921.

147,931. PEANUT-BUTTER. BLUE BELL PEANUT BUTTER COMPANY, Grand Rapids, Mich.
Filed December 9, 1919. Serial No. 125,739. PUBLISHED JUNE 28, 1921.

147,932. CERTAIN NAMED MEDICINAL PREPARATIONS. BOERICKE & TAFEL, Philadelphia, Pa.
Filed January 28, 1921. Serial No. 142,874. PUBLISHED JUNE 28, 1921.

147,933. THREE-PIECE PLAY-SUITS, BLOOMERS, AND SKIRTS. ESTHER L. BORNSTEIN, Cambridge, Mass.
Filed February 2, 1921. Serial No. 143,084. PUBLISHED JULY 12, 1921.

147,934. LADIES', CHILDREN'S, AND MEN'S HOSIERY. JOSEPH C. BASSONG, Brooklyn, N. Y.
Filed March 8, 1921. Serial No. 144,445. PUBLISHED JUNE 21, 1921.

147,935. PREPARATIONS FOR CERTAIN NAMED PURPOSES. JAMES BOUTSELIS, Collinsville, Mass.
Filed April 2, 1921. Serial No. 145,605. PUBLISHED JULY 12, 1921.

147,936. HATPINS. JOSEPH BRANDT, New York, N. Y.
Filed April 13, 1921. Serial No. 146,106. PUBLISHED JULY 5, 1921.

147,937. LIVE CATTLE, CALVES, SWINE, GOATS, SHEEP, BUTTER, AND MILK. JULES BRUCHAUD, Olive Bridge, N. Y.
Filed August 13, 1919. Serial No. 121,615. PUBLISHED AUGUST 2, 1921.

147,938. A HOUSE ORGAN PUBLISHED MONTHLY. THE J. G. BRILL COMPANY, Philadelphia, Pa.
Filed March 22, 1921. Serial No. 145,055. PUBLISHED JUNE 14, 1921.

147,939. DIARRHŒA REMEDY PREPARED ESPECIALLY FOR DOMESTIC FOWL. WAYNE A. BROOKS, Detroit, Mich.
Filed February 5, 1921. Serial No. 143,200. PUBLISHED JUNE 21, 1921.

147,940. FLEXIBLE KNITTING-NEEDLES. WILLIAM H. BROWN, Cleveland, Ohio.
Filed March 2, 1918. Serial No. 109,312. PUBLISHED JUNE 14, 1921.

147,941. PHONOGRAPH-RECORDS. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Wilmington, Del., and Chicago, Ill.
Filed January 12, 1920. Serial No. 127,028. PUBLISHED JUNE 28, 1921.

147,942. PIPE-SCREWING APPARATUS AND OIL-WELL PULLING AND CLEANING APPARATUS. THE BUCKEYE TRACTION DITCHER COMPANY, Findlay, Ohio.
Filed January 12, 1921. Serial No. 142,127. PUBLISHED JULY 12, 1921.

147,943. CERTAIN METAL-WORKING, SUGAR-MAKING, RICE AND GRAIN TREATING, AND OTHER MACHINERY. BUFFALO FORGE COMPANY, Buffalo, N. Y.
Filed February 2, 1921. Serial No. 143,088. PUBLISHED JULY 12, 1921.

147,944. CERTAIN NAMED MUSICAL INSTRUMENTS. AARON BURDWISE, Baltimore, Md.
Filed January 7, 1921. Serial No. 141,942. PUBLISHED JUNE 14, 1921.

147,945. CERTAIN NAMED MUSICAL INSTRUMENTS. AARON BURDWISE, Baltimore, Md.
Filed January 7, 1921. Serial No. 141,943. PUBLISHED JUNE 14, 1921.

147,946. A FURNITURE-POLISH. JOS. BURKEY, Lancaster, Pa.
Filed January 4, 1921. Serial No. 141,826. PUBLISHED JULY 5, 1921.

147,947. A QUARTERLY PERIODICAL OR MAGAZINE. THE BUTTERICK PUBLISHING COMPANY, New York, N. Y.
Filed April 20, 1920. Serial No. 131,376. PUBLISHED JULY 5, 1921.

147,948. FABRIC TOWELS. CANNON M'F'G., CO., Kannapolis, N. C.
Filed April 8, 1921. Serial No. 145,877. PUBLISHED JULY 12, 1921.

147,949. A BEESWAX SUBSTITUTE. CANTOL WAX COMPANY, San Antonio, Tex.
Filed February 4, 1921. Serial No. 143,159. PUBLISHED JULY 19, 1921.

147,950. PREPARED STOCK FOODS. CAPITOL PRODUCTS COMPANY, Des Moines, Iowa.
Filed October 18, 1920. Serial No. 138,428. PUBLISHED JULY 12, 1921.

147,951. LEAD-PENCILS AND MAGAZINE LEAD-PENCILS. CARTIER, INC., New York, N. Y.
Filed March 19, 1921. Serial No. 144,964. PUBLISHED JUNE 7, 1921.

147,952. BRAID FOR CROCHETING AND KNITTING. CASTLE BRAID COMPANY, New York, N. Y.
Filed March 21, 1921. Serial No. 145,008. PUBLISHED JUNE 21, 1921.

147,953. A PREPARATION FOR CLEANING AND POLISHING VARNISHED SURFACES. THE CEDAR HILL FORMULAR COMPANY, New Britain, Conn.
Filed January 22, 1921. Serial No. 142,586. PUBLISHED JULY 12, 1921.

147,954. BAKING-SODA. P. B. CHAMBERLAIN COMPANY, East St. Louis, Ill., and St. Louis, Mo.
Filed March 19, 1921. Serial No. 144,561. PUBLISHED JUNE 28, 1921.

147,955. A DETERGENT POLISHING MATERIAL. THE CHEMICAL UTILITIES COMPANY, Cincinnati, Ohio.
Filed December 17, 1920. Serial No. 141,210. PUBLISHED JULY 5, 1921.

147,956. LADIES' HOSIERY. CHIPMAN KNITTING MILLS, Easton, Pa.
Filed April 8, 1919. Serial No. 117,267. PUBLISHED JULY 5, 1921.

147,957. DYESTUFFS. CINCINNATI CHEMICAL WORKS, INC., Cincinnati, Ohio.
Filed February 4, 1921. Serial No. 143,156. PUBLISHED JUNE 21, 1921.

147,958. LIQUID SHOE-ENAMEL. CINDERELLA HEEL CORPORATION, St. Louis, Mo.
Filed April 8, 1921. Serial No. 145,876. PUBLISHED JUNE 14, 1921.

147,959. IMITATION PEARLS AND RECONSTRUCTED GEMS. CINO PEARLS LTD., London, England.
Filed April 7, 1921. Serial No. 145,820. PUBLISHED JULY 12, 1921.

147,960. WHEAT-FLOUR. CISNEROS & CO. INC., New York, N. Y., and Rahway, N. J.
Filed October 19, 1920. Serial No. 138,477. PUBLISHED JULY 26, 1921.

147,961. CLEANSER, SANITARY DISH-WASHING COMPOUND, AUTOMOBILE-SOAP, SOAP FLAKES, WASHING-POWDER, WASHING-MACHINE FLAKES, AND METAL-POLISH. THE CITIZENS' WHOLESALE SUPPLY COMPANY, Columbus, Ohio.
Filed February 7, 1921. Serial No. 143,255. PUBLISHED JULY 5, 1921.

147,962. WHEAT-FLOUR, AND PARTICULARLY SELF-RISING WHEAT-FLOUR. CITY MILLS COMPANY, Columbus, Ga.
Filed April 8, 1921. Serial No. 145,875. PUBLISHED JULY 12, 1921.

147,963. A PHARMACEUTICAL PREPARATION FOR CERTAIN NAMED PURPOSES. H. P. CLEARWATER, Hallowell, Me.
Filed April 2, 1921. Serial No. 145,610. PUBLISHED JULY 12, 1921.

147,964. MALTLESS BEVERAGE COMPOSED OF HOPS AND CORN SYRUP. THE CLEVELAND & SANDUSKY BREWING COMPANY, Cleveland, Ohio.
Filed September 5, 1917. Serial No. 106,064. PUBLISHED OCTOBER 9, 1917.

147,965. INTERNAL-COMBUSTION ENGINES. THE CLEVELAND TRACTOR COMPANY, Euclid, Ohio.
Filed March 2, 1921. Serial No. 144,221. PUBLISHED JUNE 28, 1921.

147,966. HANDKERCHIEFS. CLUETT, PEABODY & CO., INC., Troy, N. Y.
Filed April 2, 1921. Serial No. 145,613. PUBLISHED JUNE 7, 1921.

147,967. PHOTOGRAPHIC MOUNTS FOR HOLDING X-RAY FILMS AND PHOTOGRAPHIC REPRODUCTIONS THEREOF. COMPARATIVE X-RAY COMPANY, New York, N. Y.
Filed January 20, 1919. Serial No. 116,318. PUBLISHED JUNE 7, 1921.

147,968. CHOCOLATES, HARD CANDIES, AND GLACÉD FRUITS. CONTINENTAL CANDY MFG. CO., Brooklyn, N. Y.
Filed April 28, 1921. Serial No. 146,673. PUBLISHED JULY 26, 1921.

147,969. PRINTED AND WOVEN COTTON PIECE FABRICS AND COTTON PIECE TEXTILES. THE CONVERTEX CORPORATION, New York, N. Y.
Filed April 1, 1921. Serial No. 145,551. PUBLISHED JULY 12, 1921.

147,970. CHEESE. EDWARD W. COON, Philadelphia, Pa.
Filed April 9, 1921. Serial No. 145,930. PUBLISHED JULY 12, 1921.

147,971. WRITING-PAPERS. CORLIES, MACY & CO., INC., New York, N. Y.
Filed January 10, 1921. Serial No. 142,000. PUBLISHED JULY 12, 1921.

147,972. STARCH FOR MANUFACTURING AND LAUNDRY PURPOSES. CORN PRODUCTS REFINING CO., New York, N. Y.
Filed March 7, 1921. Serial No. 144,382. PUBLISHED JUNE 28, 1921.

147,973. TRANSMISSION-GEARINGS AND PARTS THEREOF. COVERT GEAR COMPANY, Lockport, N. Y.
Filed April 6, 1921. Serial No. 145,768. PUBLISHED JULY 12, 1921.

147,974. HAIR-NETS. THE CREST NET COMPANY, INC., New York, N. Y.
Filed April 7, 1921. Serial No. 145,822. PUBLISHED JUNE 28, 1921.

147,975. CORSET-BONING. THE CROWN CORSET COMPANY, New York, N. Y.
Filed January 15, 1921. Serial No. 142,283. PUBLISHED JULY 5, 1921.

147,976. CLEANSER FOR FABRICS, GLOVES, SHOES, HATS, AND WEARING-APPAREL. JOSEPH HENRY CROXTON, Fort Worth, Tex.
Filed June 25, 1920. Serial No. 134,190. PUBLISHED SEPTEMBER 28, 1920.

147,977. FACE-POWDER, ROUGE, AND MASSAGE-CREAM. CHARLES DAVIS, Paris, France.
Filed July 10, 1920. Serial No. 135,139. PUBLISHED JUNE 28, 1921.

147,978. OLEOMARGARIN. JACOB E. DECKER & SONS, Mason City, Iowa.
Filed September 11, 1920. Serial No. 137,076. PUBLISHED JULY 12, 1921.

147,979. FULL CREAM-CHEESE. JACOB E. DECKER & SONS, Mason City, Iowa.
Filed September 11, 1920. Serial No. 137,078. PUBLISHED JULY 12, 1921.

147,980. SOAP. DESERT WONDER SOAP COMPANY, Long Beach, Calif.
Filed May 10, 1921. Serial No. 147,503. PUBLISHED JULY 5, 1921.

147,981. SHOE-DRESSING. DEVONDE LABORATORIES, Houston, Tex.
Filed May 24, 1920. Serial No. 132,852. PUBLISHED JULY 5, 1921.

147,982. CERTAIN TOOLS FOR DIAMOND-CUTTERS IN THE DIAMOND INDUSTRY. DIAMANTBEWERKERS KOPEREN STELENFONDS "NIEUWE LEVENSKRACHT," Amsterdam, Netherlands.
Filed November 12, 1920. Serial No. 139,585. PUBLISHED JULY 5, 1921.

147,983. METAL WEATHER-STRIPPING. THE DIAMOND METAL WEATHER STRIP CO., Columbus, Ohio.
Filed March 5, 1921. Serial No. 144,313. PUBLISHED JUNE 21, 1921.

147,984. ANILIN AND OTHER DYESTUFFS AND RELATED PRODUCTS. DICKS, DAVID CO., INC., New York, N. Y.
Filed January 27, 1921. Serial No. 142,830. PUBLISHED JUNE 28, 1921.

147,985. LAWN-MOWERS. DILLE & MCGUIRE MFG. CO., Richmond, Ind.
Filed March 9, 1921. Serial No. 144,506. PUBLISHED JUNE 28, 1921.

147,986. LAWN-MOWERS. DILLE & MCGUIRE MFG. CO., Richmond, Ind.
Filed March 9, 1921. Serial No. 144,507. PUBLISHED JUNE 28, 1921.

147,987. LAWN-MOWERS. DILLS & MCGUIRE MFG. CO., Richmond, Ind.
Filed March 9, 1921. Serial No. 144,511. PUBLISHED JUNE 28, 1921.

147,988. LAWN-MOWERS. DILLS & MCGUIRE MFG. CO., Richmond, Ind.
Filed March 9, 1921. Serial No. 144,512. PUBLISHED JUNE 28, 1921.

147,989. LAWN-MOWERS. DILLS & MCGUIRE MFG. CO., Richmond, Ind.
Filed March 9, 1921. Serial No. 144,513. PUBLISHED JULY 5, 1921.

147,990. LAWN-MOWERS. DILLS & MCGUIRE MFG. CO., Richmond, Ind.
Filed March 9, 1921. Serial No. 144,515. PUBLISHED JUNE 28, 1921.

147,991. LAWN-MOWERS. DILLS & MCGUIRE MFG. CO., Richmond, Ind.
Filed March 9, 1921. Serial No. 144,516. PUBLISHED JUNE 28, 1921.

147,992. PENCILS. JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.
Filed October 10, 1919. Serial No. 123,622. PUBLISHED JUNE 14, 1921.

147,993. BREAD. DOCTORS' ESSENTIAL FOODS CO., Orange, N. J.
Filed December 10, 1920. Serial No. 140,877. PUBLISHED JULY 26, 1921.

147,994. CHILDREN'S TOYS AND PLAYTHINGS. DONAHUE MANUFACTURING CORPORATION, New Rochelle, N. Y.
Filed June 24, 1920. Serial No. 134,117. PUBLISHED JULY 12, 1921.

147,995. RUBBER PNEUMATIC TIRES, RUBBER PNEUMATIC TUBES, AND CERTAIN NAMED TIRE ACCESSORIES. THE DOUBLE FABRIC TIRE COMPANY, Auburn, Ind.
Filed March 19, 1919. Serial No. 116,706. PUBLISHED JULY 5, 1921.

147,996. AUTOMATIC ELECTRIC SADIRONS. THE DOVER MANUFACTURING COMPANY, Dover, Ohio.
Filed March 31, 1921. Serial No. 145,499. PUBLISHED JUNE 7, 1921.

147,997. ELECTRIC SADIRONS. THE DOVER MANUFACTURING COMPANY, Dover, Ohio.
Filed March 31, 1921. Serial No. 145,502. PUBLISHED JUNE 7, 1921.

147,998. PRINTED BOOKS. JOHN F. DRAUGHON, Nashville, Tenn.
Filed April 1, 1920. Serial No. 130,467. PUBLISHED AUGUST 3, 1920.

147,999. A MEDICINAL PREPARATION FOR CERTAIN NAMED USES. DRY OIL PRODUCTS, LTD., London, England, and New York and Trout Creek, N. Y.
Filed October 27, 1920. Serial No. 138,851. PUBLISHED JULY 5, 1921.

148,000. ELECTRIC-LIGHT FIXTURES FOR SEWING-MACHINES. DURKEE-DAVIS MANUFACTURING COMPANY, Rockford, Ill.
Filed March 25, 1921. Serial No. 145,200. PUBLISHED JUNE 7, 1921.

148,001. BOXES AND CARTONS MADE WHOLLY OR IN PART OF PAPER. DURO PAPER PRODUCTS CO., Chicago, Ill.
Filed January 12, 1918. Serial No. 108,426. PUBLISHED JUNE 21, 1921.

148,002. PREPARED PAPER AND CLOTH USED FOR BOOK-COVERS. THE DUX CHEMICAL SOLUTIONS COMPANY, LIMITED, London, England.
Filed January 6, 1921. Serial No. 141,889. PUBLISHED JUNE 7, 1921.

148,003. RIBBONS, DRESS GOODS, (WOOLEN, SILK, COTTON, &c.,) AND SHIRTINGS, ALL IN THE PIECE. ECONOMIC MANUFACTURING CO., Paterson, N. J.
Filed October 17, 1919. Serial No. 122,884. PUBLISHED JUNE 28, 1921.

148,004. SAFETY-PINS. EUGENE EHLICH, Vestal, N. Y., assignor to Universal Instruments and Metal Company, Inc., Union, N. Y.
Filed February 28, 1920. Serial No. 129,006. PUBLISHED JUNE 14, 1921.

148,005. CERTAIN NAMED JEWELRY AND PRECIOUS-METAL WARE. SAMUEL M. EISENSTEIN, Attleboro, Mass.
Filed March 14, 1921. Serial No. 144,712. PUBLISHED JULY 12, 1921.

148,006. A MONTHLY PUBLICATION. EL COMERCIO PUBLISHING CORPORATION, New York, N. Y.
Filed February 28, 1921. Serial No. 144,071. PUBLISHED JUNE 21, 1921.

148,007. ELECTRIC WELDING-MACHINES. ELECTRIC ARC CUTTING AND WELDING COMPANY, Newark, N. J.
Filed November 23, 1920. Serial No. 140,024. PUBLISHED JUNE 7, 1921.

148,008. MILK AND BUTTER. THE ELECTROPURE COMPANY, Chicago, Ill.
Filed June 7, 1920. Serial No. 133,353. PUBLISHED JULY 19, 1921.

148,009. SAFETY-RAZORS. ENDERS SALES COMPANY, New York, N. Y.
Filed April 1, 1921. Serial No. 145,554. PUBLISHED JULY 5, 1921.

148,010. A SALINE APERIENT. J. C. ENO, LIMITED, London, England.
Filed October 29, 1920. Serial No. 138,945. PUBLISHED JUNE 28, 1921.

148,011. CERTAIN CONSTRUCTION MACHINERY AND EQUIPMENT. EQUIPMENT CORPORATION OF AMERICA, Wilmington, Del., and Chicago, Ill.
Filed January 21, 1921. Serial No. 142,557. PUBLISHED JULY 5, 1921.

148,012. COTTON BED-BLANKETS. THE ESMOND MILLS, Esmond, R. I.
Filed March 22, 1921. Serial No. 145,058. PUBLISHED JULY 12, 1921.

148,013. CERTAIN NAMED CONSTRUCTION MATERIALS. THE FAIRBANKS CO., New York, N. Y.
Filed January 14, 1921. Serial No. 142,247. PUBLISHED JULY 12, 1921.

148,014. A PREPARATION IN TABLET FORM FOR CLEANING, DEODORIZING, AND DISINFECTING. THOMAS M. FARMER, Watertown, N. Y.
Filed April 20, 1921. Serial No. 146,425. PUBLISHED JUNE 14, 1921.

148,015. CERTAIN NAMED PIECE GOODS, BLANKETS, AND BEDDING. JOHN V. FARRELL COMPANY, Chicago, Ill.
Filed February 20, 1920. Serial No. 128,674. PUBLISHED JUNE 28, 1921.

148,016. CANDY—NAMELY, CANDY SUCKERS. HOMER W. FAULKNER, Mount Vernon, Ill.
Filed December 23, 1919. Serial No. 126,359. PUBLISHED JUNE 21, 1921.

148,017. RUBBER TOYS—NAMELY, RUBBER DOLLS, RUBBER TOY BALLOONS, RUBBER ANIMALS, AND RUBBER BALLS. THE FAULTLESS RUBBER COMPANY, Ashland, Ohio.
Filed September 2, 1920. Serial No. 136,751. PUBLISHED MAY 10, 1921.

148,018. CASTERS FOR FURNITURE AND THE LIKE. FAULTLESS CASTER CO., Evansville, Ind.
Filed February 5, 1921. Serial No. 143,210. PUBLISHED JULY 5, 1921.

148,019. HYDRAULIC TRANSMISSIONS. WALTER FERRIS, Milwaukee, Wis.
Filed February 26, 1921. Serial No. 144,074. PUBLISHED JUNE 28, 1921.

148,020. HYDRAULIC TRANSMISSIONS. WALTER FERRIS, Milwaukee, Wis.
Filed February 26, 1921. Serial No. 144,075. PUBLISHED JUNE 28, 1921.

148,021. TOOL-BOXES, DEPOSIT-BOXES, AND MERCHANDISE-BINS. FIRE-PROOF FURNITURE AND CONSTRUCTION COMPANY, New York, N. Y., and Miamisburg, Ohio, assignor to Steel Equipment Corporation, New York, N. Y., a Corporation of New York.
Filed March 13, 1916. Serial No. 93,489. PUBLISHED JULY 5, 1921.

148,022. CERTAIN NAMED PAPERS. FISCHEL PAPER COMPANY, Albany, N. Y.
Filed January 12, 1921. Serial No. 142,139. PUBLISHED JULY 12, 1921.

148,023. HAIR-NETS, RIBBONS IN THE PIECE, HANDKERCHIEFS, VEILS. ALBERT C. FISCHER, Chicago, Ill.
Filed April 8, 1920. Serial No. 130,815. PUBLISHED JULY 5, 1921.

148,024. BELT-DRESSING COMPOSITIONS. LOUIS M. FISHER, Clarksdale, Mo.
Filed March 29, 1921. Serial No. 145,393. PUBLISHED JUNE 14, 1921.

148,025. ELECTRICALLY-ILLUMINATED SIGNS. FLEXLUME SIGN COMPANY, Buffalo, N. Y.
Filed May 21, 1920. Serial No. 132,737. PUBLISHED JUNE 7, 1921.

148,026. FOOT-POWDER. THOMAS E. FLINT, Minos, N. Y.
Filed January 3, 1921. Serial No. 141,771. PUBLISHED JUNE 21, 1921.

148,027. HAND OPERATED, PORTABLE, OR STATIONARY FIRE-EXTINGUISHERS. FOAMITE FIREFOAM COMPANY, New York, N. Y.
Filed January 28, 1921. Serial No. 142,880. PUBLISHED JUNE 28, 1921.

148,028. ELECTRIC-CURRENT RECTIFIERS. FORREST ELECTRIC CO., Newark, N. J.
Filed March 23, 1921. Serial No. 145,104. PUBLISHED JUNE 7, 1921.

148,029. COFFEE. FORT SMITH COFFEE COMPANY, Fort Smith, Ark.
Filed May 2, 1921. Serial No. 147,127. PUBLISHED JULY 26, 1921.

148,030. FRESH CITRUS FRUITS. CHESTER C. FOSGATE CO., Orlando, Fla.
Filed April 1, 1921. Serial No. 145,560. PUBLISHED JUNE 28, 1921.

148,031. PEANUTS IN THE SHELL. FRANKLIN PEANUT COMPANY, Franklin, Va.
Filed March 16, 1921. Serial No. 144,809. PUBLISHED JUNE 28, 1921.

148,032. PREPARATION FOR DANDRUFF, ITCHING SCALP, AND ECZEMA. ADOLPH F. FRICK, San Francisco, Calif.
Filed January 3, 1921. Serial No. 141,824. PUBLISHED JULY 5, 1921.

148,033. CERTAIN TOILET PREPARATIONS. HENRIETTE GABILLA, Paris, France.
Filed November 6, 1920. Serial No. 139,263. PUBLISHED JUNE 21, 1921.

148,034. WHEAT-FLOUR. GALLATIN VALLEY MILLING COMPANY, Seattle, Wash., and Belgrade, Mont.
Filed January 20, 1921. Serial No. 142,480. PUBLISHED JULY 12, 1921.

148,035. WHEAT-FLOUR. GALLATIN VALLEY MILLING COMPANY, Seattle, Wash., and Belgrade, Mont.
Filed January 20, 1921. Serial No. 142,481. PUBLISHED JULY 12, 1921.

148,036. WHEAT-FLOUR. GALLATIN VALLEY MILLING COMPANY, Seattle, Wash., and Belgrade, Mont.
Filed January 20, 1921. Serial No. 142,482. PUBLISHED JULY 12, 1921.

148,037. WHEAT-FLOUR. GALLATIN VALLEY MILLING COMPANY, Seattle, Wash., and Belgrade, Mont.
Filed January 20, 1921. Serial No. 142,483. PUBLISHED JULY 12, 1921.

148,038. WHEAT-FLOUR. GALLATIN VALLEY MILLING CO., Seattle, Wash., and Belgrade, Mont.
Filed January 20, 1921. Serial No. 142,484. PUBLISHED JULY 12, 1921.

148,039. WHEAT-FLOUR. GALLATIN VALLEY MILLING COMPANY, Seattle, Wash., and Belgrade, Mont.
Filed January 20, 1921. Serial No. 142,485. PUBLISHED JULY 12, 1921.

148,040. WHEAT-FLOUR. GALLATIN VALLEY MILLING COMPANY, Seattle, Wash., and Belgrade, Mont.
Filed January 20, 1921. Serial No. 142,486. PUBLISHED JULY 12, 1921.

148,041. WHEAT-FLOUR. GALLATIN VALLEY MILLING COMPANY, Seattle, Wash., and Belgrade, Mont.
Filed January 20, 1921. Serial No. 142,487. PUBLISHED JULY 12, 1921.

148,042. WHEAT-FLOUR. GALLATIN VALLEY MILLING CO., Seattle, Wash., and Belgrade, Mont.
Filed January 20, 1921. Serial No. 142,488. PUBLISHED JULY 12, 1921.

148,043. PORTFOLIOS. HENRY H. GEARY, Fostoria, Ohio.
Filed March 12, 1920. Serial No. 129,593. PUBLISHED JULY 26, 1921.

148,044. STATIONARY INDUCTION APPARATUS—NAMELY, TRANSFORMERS USED FOR HEATING, WELDING, AND THE LIKE. GENERAL ELECTRIC COMPANY, Schenectady, N. Y.
Filed June 28, 1920. Serial No. 134,311. PUBLISHED JUNE 28, 1921.

148,045. ARC AND INCANDESCENT ELECTRIC LAMPS. GENERAL LAMP & MOTOR COMPANY, INC., New York, N. Y.
Filed March 6, 1920. Serial No. 129,320. PUBLISHED NOVEMBER 23, 1920.

148,046. ARMPIT DRESS-SHIELDS AND DIAPER-SUPPORTERS. MAUDE SINCLAIR GEORGE, St. Louis, Mo.
Filed January 14, 1920. Serial No. 127,121. PUBLISHED APRIL 13, 1920.

148,047. COTTON PIECE GOODS. M. H. GILBERG & CO. INC., New York, N. Y.
Filed April 20, 1921. Serial No. 146,430. PUBLISHED JUNE 21, 1921.

148,048. MEAT PIES. GLASGOW MEAT PIE COMPANY, Salt Lake City, Utah.
Filed December 13, 1920. Serial No. 141,009. PUBLISHED AUGUST 2, 1921.

148,049. SHOE-LACINGS, CORSET-LACINGS, UNDERWEAR-LACINGS, BLOUSE-LACINGS, GALLOONS, AND BRAIDS, ALL OF WHICH ARE MADE OF LINEN, SILK, OR WORSTED. GLENCAIRN MFG. CO., Pawtucket, R. I.
Filed March 7, 1921. Serial No. 144,389. PUBLISHED JUNE 14, 1921.

148,050. CERTAIN NAMED ELECTRICAL APPARATUS. GLOBE ELECTRIC COMPANY, Milwaukee, Wis.
Filed March 24, 1920. Serial No. 130,137. PUBLISHED JUNE 14, 1921.

148,051. SOAP POWDER, LAUNDRY AND TOILET SOAP, PINE-TAR SOAP, SILVER-POLISH, WASHING FLUID, SCOURING-POWDER. GLOBE GROCERY STORES, INC., Brooklyn, N. Y.
Filed December 11, 1919. Serial No. 125,640. PUBLISHED JUNE 14, 1921.

148,052. PHOTOGRAPHS. Willard L. Gleason, Bristol, Vt.
Filed April 12, 1921. Serial No. 146,074. PUBLISHED JULY 5, 1921.

148,053. READY-MIXED PAINT FOR HOT SURFACES. The Gosnell Corporation, Wilmington, Del., and New York, N. Y.
Filed December 8, 1920. Serial No. 140,795. PUBLISHED JULY 5, 1921.

148,054. BUILT-UP WOOD, PLYWOOD. The Gorham Brownell Company, Mount Pleasant, Mich.
Filed February 26, 1921. Serial No. 144,062. PUBLISHED JUNE 21, 1921.

148,055. TITLE OF A TRADE PAMPHLET ISSUED MONTHLY. Goshen Sash and Door Company, Goshen, Ind.
Filed April 18, 1921. Serial No. 146,311. PUBLISHED JUNE 21, 1921.

148,056. CHEWING-GUM. The Goudey Gum Co., Boston, Mass.
Filed December 9, 1920. Serial No. 140,834. PUBLISHED JULY 26, 1921.

148,057. WARM-AIR, COAL, WOOD, GAS, AND OIL FURNACES AND COOKING-RANGES. The Graff Furnace Co., New York, N. Y.
Filed February 28, 1921. Serial No. 143,923. PUBLISHED JUNE 28, 1921.

148,058. FRUIT-WRAPPING TISSUE-PAPER. Graham Paper Company, St. Louis, Mo.
Filed February 28, 1921. Serial No. 144,140. PUBLISHED JUNE 14, 1921.

148,059. SOAP. William Tyler Green, Summit, N. J.
Filed March 14, 1921. Serial No. 144,717. PUBLISHED JUNE 14, 1921.

148,060. RAG DOLLS. Julia E. Greene, Philadelphia, Pa.
Filed November 29, 1920. Serial No. 140,379. PUBLISHED JULY 26, 1921.

148,061. CHOCOLATE CANDY. E. Greenfield's Sons, New York and Brooklyn, N. Y.
Filed April 4, 1921. Serial No. 145,681. PUBLISHED JULY 12, 1921.

148,062. TREES. Haas & Kirkland, Winter Haven, Fla.
Filed January 22, 1921. Serial No. 142,621. PUBLISHED JULY 12, 1921.

148,063. PHOTOGRAPHS. Frederick B. Haggwise, Boston, Mass.
Filed March 19, 1921. Serial No. 144,970. PUBLISHED JULY 12, 1921.

148,064. AUTOMOBILE ACCESSORIES — NAMELY, METAL FRAMES FOR HOLDING GLASS IN CURTAINS. Haines Manufacturing Corporation, Rochester, N. Y.
Filed March 1, 1921. Serial No. 144,184. PUBLISHED JUNE 28, 1921.

148,065. MEN'S AND BOYS' UNION-SUITS, UNDERSHIRTS, AND UNDERDRAWERS MADE OF TEXTILE AND KNITTED FABRICS. Hall, Hartwell & Co., Troy, N. Y.
Filed December 16, 1920. Serial No. 141,170. PUBLISHED JULY 5, 1921.

148,066. CHOCOLATE CANDY. Halligan Candy Company, Davenport, Iowa.
Filed January 11, 1921. Serial No. 142,074. PUBLISHED JULY 12, 1921.

148,067. BREAD. G. Herb Handley, Ogdensburg, N. Y.
Filed January 25, 1921. Serial No. 142,757. PUBLISHED JUNE 28, 1921.

148,068. DRIED FRUITS AND CANNED FRUIT. O. A. Harlan & Co., San Jose, Calif.
Filed February 1, 1921. Serial No. 143,043. PUBLISHED AUGUST 2, 1921.

148,069. WHEELS AND DEMOUNTABLE RIMS. Harvey Rim and Wheel Company, Buffalo, N. Y.
Filed August 16, 1919. Serial No. 121,716. PUBLISHED JUNE 28, 1921.

148,070. STREET PAVEMENTS AND BITUMINOUS PAVING MATERIALS. Hassam Paving Company, Worcester, Mass.
Filed December 20, 1920. Serial No. 141,312. PUBLISHED MAY 31, 1921.

148,071. CERTAIN NAMED PAPER AND STATIONERY. Egon Hasselberg, Barcelona, Spain.
Filed October 31, 1919. Serial No. 124,494. PUBLISHED JUNE 28, 1921.

148,072. LUMBER. Hawkins Lumber Company, Boston, Mass.
Filed March 2, 1921. Serial No. 144,233. PUBLISHED JUNE 21, 1921.

148,073. PAPER-FASTENERS. The Hewes-Mulhaney Company, Inc., Syracuse, N. Y.
Filed March 24, 1921. Serial No. 145,166. PUBLISHED JUNE 14, 1921.

148,074. MERCHANDISE-ENVELOPS. Alexander Hess, New York, N. Y.
Filed March 2, 1920. Serial No. 129,143. PUBLISHED JUNE 28, 1921.

148,075. SOAP. Wm. Hobbs Hewitt, Chicago, Ill.
Filed April 11, 1921. Serial No. 146,017. PUBLISHED JUNE 21, 1921.

148,076. TRANSPARENT CEMENT. Highland Manufacturing Co., Highland Park, N. J.
Filed April 14, 1921. Serial No. 146,174. PUBLISHED JUNE 28, 1921.

148,077. WASHING-TABLETS. W. R. Hollingshead Company, Binghamton, N. Y.
Filed March 21, 1919. Serial No. 116,772. PUBLISHED JUNE 14, 1921.

148,078. SOAP. The R. M. Hollingshead Co., Camden, N. J.
Filed May 10, 1921. Serial No. 147,512. PUBLISHED JULY 5, 1921.

148,079. ITALIAN PASTE PRODUCTS, SUCH AS MACARONI. Homac Corporation, Syracuse, N. Y.
Filed April 13, 1921. Serial No. 146,119. PUBLISHED JUNE 28, 1921.

148,080. METAL-POLISH. Lee R. Hopkins, Baltimore, Md.
Filed April 21, 1921. Serial No. 146,485. PUBLISHED JUNE 14, 1921.

148,081. SOAP. Howard Bros. Chemical Co., Buffalo, N. Y.
Filed October 18, 1919. Serial No. 123,932. PUBLISHED JULY 5, 1921.

148,082. CERTAIN NAMED CLEANING-POWDERS AND SOAP. Thos. Hudbuck & Son Limited, London, England.
Filed October 9, 1919. Serial No. 123,580. PUBLISHED JULY 5, 1921.

148,083. A SHAVING AND HEALING LOTION. John H. Ichter, Tamaqua, Pa.
Filed March 14, 1921. Serial No. 144,724. PUBLISHED JUNE 28, 1921.

148,084. SPARK-PLUGS. Ignition Company of America, New York, N. Y.
Filed April 30, 1920. Serial No. 131,874. PUBLISHED JUNE 14, 1921.

148,085. TOOTHBRUSHES AND NAIL-BRUSHES. Imperial Brush Company, Inc., New York, N. Y.
Filed May 19, 1920. Serial No. 132,641. PUBLISHED MAY 31, 1921.

148,086. RUBBER CEMENT, RUBBER GUM, AND GUM FOR REPAIRING CUTS IN THE TREADS OF RUBBER TIRES. The India Tire & Rubber Co., Mogadore, Ohio.
Filed April 14, 1921. Serial No. 146,177. PUBLISHED JUNE 28, 1921.

148,087. BATTERY-SEPARATORS. The Indiana Separator Company, Indianapolis, Ind.
Filed March 30, 1921. Serial No. 145,466. PUBLISHED JUNE 28, 1921.

148,088. BATTERY-SEPARATORS. The Indiana Separator Company, Indianapolis, Ind.
Filed March 30, 1921. Serial No. 145,467. PUBLISHED JUNE 28, 1921.

148,089. A BIWEEKLY MAGAZINE OR PAMPHLET. International Magazine Company, New York, N. Y.
Filed April 23, 1921. Serial No. 146,632. PUBLISHED JULY 5, 1921.

148,090. PRIME SUMMER YELLOW REFINED DEODORIZED COTTON-SEED OIL. The International Vegetable Oil Company, Atlanta, Ga.
Filed April 22, 1921. Serial No. 146,558. PUBLISHED JULY 26, 1921.

148,091. SOAP FOR BATH AND TOILET. Iowa Soap Company, Burlington, Iowa.
Filed November 27, 1920. Serial No. 140,334. PUBLISHED JUNE 14, 1921.

148,092. RUBBER, COMPOSITION, TEXTILE, PYROXYLIN, WOODEN, PAPER, AND METAL TOYS. Irokese Trading Corporation, New York, N. Y.
Filed November 22, 1920. Serial No. 139,974. PUBLISHED JUNE 21, 1921.

148,093. SILKS, COTTON, AND CREPE TEXTILES IN THE PIECE. Ironwarp Silk Mills, Inc., Allentown, Pa.
Filed January 24, 1921. Serial No. 142,708. PUBLISHED JULY 12, 1921.

148,094. OLIVE-OIL. Italian Greek Impt. Co., New York, N. Y.
Filed April 16, 1921. Serial No. 146,257. PUBLISHED JULY 26, 1921.

148,095. CANNED SALMON. The Izzard Company, Seattle, Wash.
Filed February 1, 1921. Serial No. 143,049. PUBLISHED JULY 12, 1921.

148,096. FRUIT-TREES. Jerseyville Nursery, Dow and Jerseyville, Ill.
Filed March 5, 1921. Serial No. 144,852. PUBLISHED JUNE 21, 1921.

148,097. CERTAIN INSTRUMENTS OF PRECISION. Carl Edvard Johansson, Eskilstuna Sweden.
Filed November 17, 1916. Serial No. 99,360½. PUBLISHED JUNE 28, 1921.

148,098. ELECTRIC BATTERIES AND PARTS THEREOF. William T. Johnston, Chicago, Ill.
Filed April 2, 1921. Serial No. 145,631. PUBLISHED JUNE 14, 1921.

148,099. DEHYDRATED AND CONCENTRATED CITRUS FRUITS. Chester H. Johnson, Anaheim, Calif.
Filed June 17, 1920. Serial No. 133,829. PUBLISHED JULY 26, 1921.

148,100. A HAIR-GROWER. Hattie Jones, St. Louis, Mo.
Filed March 15, 1921. Serial No. 144,777. PUBLISHED JULY 12, 1921.

148,101. CHOCOLATE. Josephine Chocolates Limited, London, England.
Filed November 2, 1920. Serial No. 139,061. PUBLISHED AUGUST 2, 1921.

148,102. SHOE AND CORSET LACING TIPS. Joslin Mfg. Co., Providence, R. I.
Filed April 15, 1921. Serial No. 146,220. PUBLISHED JUNE 14, 1921.

148,103. BABBITT METAL. Kansas City Smelting Co., Kansas City, Mo.
Filed April 4, 1921. Serial No. 145,692. PUBLISHED JUNE 28, 1921.

148,104. CERTAIN NAMED PHONOGRAPH ACCESSORIES. The F. C. Kent Company, Newark, N. J.
Filed May 21, 1919. Serial No. 116,750. PUBLISHED JUNE 7, 1921.

148,105. CERTAIN NAMED PHONOGRAPH ACCESSORIES. The F. C. Kent Company, Newark, N. J.
Filed May 27, 1919. Serial No. 118,965. PUBLISHED JUNE 7, 1921.

148,106. LEATHER-DRESSINGS PACKAGED IN LIQUID AND SOLID FORM, AND ALSO METAL-POLISHING MATERIALS. The Kepec Company, Milwaukee, Wis.
Filed April 7, 1921. Serial No. 145,834. PUBLISHED MAY 31, 1921.

148,107. LIQUID PREPARATION FOR TREATMENT OF CERTAIN AILMENTS. John Henry Kessler, Cleveland, Ohio.
Filed January 28, 1921. Serial No. 142,866. PUBLISHED JULY 12, 1921.

148,108. SILVER-POLISH. C. M. Kimball Company, Winthrop, Mass.
Filed May 11, 1921. Serial No. 147,558. PUBLISHED JULY 5, 1921.

148,109. HOSIERY FOR MEN, WOMEN, AND CHILDREN. King & Company, New York, N. Y.
Filed February 9, 1921. Serial No. 143,358. PUBLISHED JULY 5, 1921.

148,110. A PREPARATION FOR THE TREATMENT OF DISEASES OF THE MOUTH AND TEETH. Ralph C. King, Columbus, Ga.
Filed February 8, 1921. Serial No. 143,130. PUBLISHED JULY 12, 1921.

148,111. CANNED FRUITS AND CANNED VEGETABLES. Ernest Kirsten, Oakland, Calif.
Filed December 21, 1920. Serial No. 141,577. PUBLISHED JULY 5, 1921.

148,112. LEATHER BELTING. Kistler Leather Company, Boston, Mass.
Filed May 8, 1920. Serial No. 132,182. PUBLISHED JULY 5, 1921.

148,113. CHOCOLATE. Klein Chocolate Company, Elizabethtown, Pa.
Filed April 7, 1921. Serial No. 145,835. PUBLISHED JULY 26, 1921.

148,114. CHOCOLATE. Klein Chocolate Company, Elizabethtown, Pa.
Filed April 7, 1921. Serial No. 145,836. PUBLISHED JULY 26, 1921.

148,115. WINDSHIELD-CLEANERS OF THE BLADE-WIPING TYPE. The K-M Manufacturing Company, Toledo, Ohio.
Filed November 11, 1920. Serial No. 139,535. PUBLISHED JULY 12, 1921.

148,116. HOSIERY, ONE AND TWO PIECE KNIT UNDERWEAR, AND SWEATERS FOR MEN, WOMEN, AND CHILDREN. Anthony Korn, New York, N. Y.
Filed December 11, 1920. Serial No. 140,947. PUBLISHED JULY 5, 1921.

148,117. PICKLED, DRIED, SALTED, SMOKED, AND CANNED FISH. Koellisch & Fortmann, Inc., New York, N. Y.
Filed October 13, 1920. Serial No. 138,258. PUBLISHED AUGUST 2, 1921.

148,118. RECONSTRUCTIVE, DIGESTIVE, AND NERVE TONIC. Alfred M. Kronberger, Boston, Mass.
Filed November 12, 1920. Serial No. 139,579. PUBLISHED JULY 12, 1921.

148,119. A SALVE FOR THE RELIEF OF SUFFERERS FROM ECZEMA. Andrew Kundeus, Endicott, N. Y.
Filed January 12, 1921. Serial No. 142,150. PUBLISHED JULY 12, 1921.

148,120. COTTON PIECE GOODS—VIZ., TICKINGS. Isaac Laden, New York, N. Y.
Filed April 13, 1921. Serial No. 146,124. PUBLISHED JULY 5, 1921.

148,121. TOWELING, TOWELS, CRASHES, SCARFING, AND TRAY-CLOTHS. LAIRD LINEN CORPORATION, New York, N. Y.
Filed February 7, 1921. Serial No. 143,269. PUBLISHED JULY 26, 1921.

148,122. TOWELING, TOWELS, CRASHES, SCARFING, AND TRAY-CLOTHS. LAIRD LINEN CORPORATION, New York, N. Y.
Filed February 7, 1921. Serial No. 143,275. PUBLISHED JULY 26, 1921.

148,123. TOWELING, TOWELS, CRASHES, SCARFING, AND TRAY-CLOTHS. LAIRD LINEN CORPORATION, New York, N. Y.
Filed February 7, 1921. Serial No. 143,276. PUBLISHED JULY 26, 1921.

148,124. TOWELING, TOWELS, CRASHES, SCARFING, AND TRAY-CLOTHS. LAIRD LINEN CORPORATION, New York, N. Y.
Filed February 7, 1921. Serial No. 143,277. PUBLISHED JULY 26, 1921.

148,125. TOWELING, TOWELS, CRASHES, SCARFING, AND TRAY-CLOTHS. LAIRD LINEN CORPORATION, New York, N. Y.
Filed February 7, 1921. Serial No. 143,278. PUBLISHED JULY 26, 1921.

148,126. TOWELING, TOWELS, CRASHES, SCARFING, AND TRAY-CLOTHS. LAIRD LINEN CORPORATION, New York, N. Y.
Filed February 7, 1921. Serial No. 143,279. PUBLISHED JULY 26, 1921.

148,127. TOWELING, TOWELS, CRASHES, SCARFING, AND TRAY-CLOTHS. LAIRD LINEN CORPORATION, New York, N. Y.
Filed February 7, 1921. Serial No. 143,280. PUBLISHED JULY 26, 1921.

148,128. SOAP. LANOS SOAP CO., San Antonio, Tex.
Filed May 17, 1921. Serial No. 147,831. PUBLISHED JULY 5, 1921.

148,129. CYLINDER-GRINDING COMPOUND. LAP-IN COMPOUND COMPANY, San Francisco, Calif.
Filed May 11, 1921. Serial No. 147,559. PUBLISHED JULY 5, 1921.

148,130. FLAVOR USED IN BROWNING ANY FOOD, SUCH AS GRAVY, SOUP, OR THE LIKE. THEOBALD G. LAUSITSEN, Lynn, Mass.
Filed September 17, 1920. Serial No. 137,286. PUBLISHED AUGUST 2, 1921.

148,131. ANTISEPTIC PROPHYLACTIC TABLETS. LEO SHAPIRO COMPANY, Minneapolis, Minn.
Filed February 5, 1921. Serial No. 143,222. PUBLISHED JUNE 21, 1921.

148,132. CERTAIN NAMED PIECE GOODS. LESSER, WHITMAN & CO., INC., New York, N. Y.
Filed April 8, 1921. Serial No. 145,901. PUBLISHED JULY 5, 1921.

148,133. CERTAIN NAMED PIECE GOODS. LESSER, WHITMAN & CO., INC., New York, N. Y.
Filed April 8, 1921. Serial No. 145,902. PUBLISHED JULY 5, 1921.

148,134. LADIES' SHIRTWAISTS. PINCUS LESSER, New York, N. Y.
Filed March 30, 1921. Serial No. 145,466. PUBLISHED JULY 12, 1921.

148,135. CERTAIN NAMED ARTICLES OF STATIONERY. ISAIA LEVI, Turin, Italy.
Filed September 29, 1920. Serial No. 137,785. PUBLISHED JULY 12, 1921.

148,136. MEDICINAL TABLETS FOR STOMACH AND LIVER. THE A. H. LEWIS MEDICINE COMPANY, St. Louis, Mo.
Filed March 2, 1921. Serial No. 144,235. PUBLISHED JUNE 28, 1921.

148,137. CERTAIN NAMED JEWELRY. L. H. LEWIS COMPANY, Dallas, Tex.
Filed March 19, 1921. Serial No. 144,974. PUBLISHED JULY 12, 1921.

148,138. GASOLENE, KEROSENE, LUBRICATING OILS AND GREASES. LIBERTY OIL COMPANY, LIMITED, New Orleans, La.
Filed October 27, 1920. Serial No. 136,863. PUBLISHED APRIL 5, 1921.

148,139. CLEANING FLUIDS, BLACK-LEATHER POLISH, AUTO-TOP DRESSING. EDWARD K. LINCOLN, New York, N. Y.
Filed March 16, 1921. Serial No. 144,821. PUBLISHED JUNE 21, 1921.

148,140. KANSAS HARD-WHEAT FLOUR. THE LINDSBORG MILLING & ELEVATOR CO., Lindsborg, Kans.
Filed March 1, 1921. Serial No. 144,193. PUBLISHED JUNE 28, 1921.

148,141. CERTAIN NAMED SAFETY-PAPER. LITHOGRAPHERS COOPERATIVE ASSOCIATION, Washington, D. C.
Filed June 15, 1920. Serial No. 133,738. PUBLISHED JUNE 28, 1921.

148,142. A POLISHING PREPARATION AND A CERTAIN NAMED PAINT AND VARNISH OIL. LUCIUS N. LITTAUER, New York, N. Y.
Filed October 15, 1919. Serial No. 128,816. PUBLISHED JUNE 28, 1921.

148,143. A HAIR-TONIC. JAMES S. LIVERSAY, Palo Alto, Calif.
Filed January 24, 1921. Serial No. 142,712. PUBLISHED JULY 12, 1921.

148,144. COTTON GOODS IN THE PIECE. LONSDALE COMPANY, Providence, R. I.
Filed April 14, 1921. Serial No. 146,179. PUBLISHED JULY 5, 1921.

148,145. MEN'S DRESS-SHIRTS. LORD & TAYLOR, New York, N. Y.
Filed February 25, 1921. Serial No. 144,027. PUBLISHED JUNE 28, 1921.

148,146. CORSETS. LORETTA CORSET CO., Chicago, Ill.
Filed November 23, 1920. Serial No. 140,042. PUBLISHED JUNE 28, 1921.

148,147. AN ANTISEPTIC MOUTH-WASH USED FOR THE PREVENTION AND TREATMENT OF PYORRHEA. OTTO F. LOUIS, Bay City, Mich.
Filed December 10, 1919. Serial No. 125,786. PUBLISHED APRIL 6, 1920.

148,148. LIVER-PILLS. THOMAS MCCARTHY, Poughkeepsie, N. Y.
Filed March 1, 1921. Serial No. 144,195. PUBLISHED JUNE 28, 1921.

148,149. A CLEANSING COMPOUND SUITABLE FOR CLEANING AND RESTORING COLOR TO ORIENTAL RUGS, CARPETS, CLOTHING, &c., AND FOR OTHER PURPOSES. MARTIN MCDERMOTT, Chicago, Ill.
Filed March 21, 1921. Serial No. 145,028. PUBLISHED MAY 31, 1921.

148,150. ELECTRIC-LAMP GUARDS. MCGILL MANUFACTURING CO., Valparaiso, Ind.
Filed March 21, 1921. Serial No. 145,025. PUBLISHED JUNE 7, 1921.

148,151. A VEGETABLE COMPOUND FOR THE STOMACH AND LIVER, KIDNEYS, AND BLOOD. CHARLES W. MCKNOUGH, Los Angeles, Calif.
Filed January 6, 1921. Serial No. 141,912. PUBLISHED JUNE 28, 1921.

148,152. DRESSING FOR TRANSMISSION-BAND LININGS. JOHN C. MCLEAN, Cleveland, Ohio.
Filed April 11, 1921. Serial No. 146,623. PUBLISHED JULY 5, 1921.

148,153. SILK PIECE GOODS. H. R. MALLINSON & CO. INC., New York, N. Y.
Filed January 20, 1921. Serial No. 142,518. PUBLISHED JUNE 28, 1921.

148,154. RUBBER AND CANVAS BELTS AND RUBBER HOSE. THE MANHATTAN RUBBER MFG. CO., Passaic, N. J.
Filed April 7, 1921. Serial No. 145,839. PUBLISHED JULY 12, 1921.

148,155. [WITHDRAWN.]

148,156. COTTON DRESS FABRICS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 15, 1917. Serial No. 107,806. PUBLISHED JULY 5, 1921.

148,157. SILK SKIRT-BRAID. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed April 22, 1921. Serial No. 146,537. PUBLISHED JUNE 14, 1921.

148,158. COASTING-SLEDS AND COASTING-WAGONS. MARSHALL-WELLS COMPANY, Jersey City, N. J., and Duluth, Minn.
Filed May 13, 1918. Serial No. 110,865. PUBLISHED JUNE 21, 1921.

148,159. MEN'S AND WOMEN'S OVERALLS, WORK PANTS AND SHIRTS. D. L. MARX CO., Cairo, Ill.
Filed June 2, 1917. Serial No. 104,223. PUBLISHED MARCH 18, 1919.

148,160. CERTAIN NAMED TOILET PREPARATIONS. JACQUES ERNEST MASURIER, Paris, France.
Filed January 13, 1919. Serial No. 115,151. PUBLISHED OCTOBER 28, 1919.

148,161. CERTAIN NAMED ELECTRICAL APPARATUS. METROPOLITAN-VICKERS ELECTRICAL COMPANY LIMITED, London, England.
Filed January 30, 1920. Serial No. 127,763. PUBLISHED JUNE 7, 1921.

148,162. DOOR-CHECKS. MICHIGAN METAL PRODUCTS COMPANY, Battle Creek, Mich.
Filed April 22, 1920. Serial No. 131,497. PUBLISHED JULY 5, 1921.

148,163. WOOLENS, BROAD SILKS, VELVETS, SILK CREPES AND VOILES, AND SILK SHIRTINGS, ALL PIECE GOODS. J. A. MIGEL, INC., New York, N. Y.
Filed October 16, 1920. Serial No. 136,397. PUBLISHED JULY 12, 1921.

148,164. BONING, STEELS, AND STAYING MATERIALS FOR CORSETS OR OTHER WEARING-APPAREL. MIGHTYBONE CORPORATION OF NEW YORK, New York, N. Y.
Filed April 23, 1921. Serial No. 146,646. PUBLISHED JULY 5, 1921.

148,165. SUGAR-CANE-CUTTING MACHINERY. W. STEWART MILLER, Derby, Conn.
Filed March 16, 1921. Serial No. 144,824. PUBLISHED JULY 12, 1921.

148,166. CHILDREN'S, MEN'S, AND BOYS' CLOTH HATS AND CAPS, ALSO STRAWS AND FELTS FOR MEN, WOMEN, AND CHILDREN. MODERN CAP MFG. COMPANY, St. Louis, Mo.
Filed March 7, 1921. Serial No. 144,402. PUBLISHED JUNE 21, 1921.

148,167. A MEDICINAL PREPARATION FOR THE RELIEF OF CONGESTION AND INFLAMMATION. NICHOLAS JOHN MOLNAR, Roselle, N. J., assignor to Jacinto A. Amat, Roselle, N. J.
Filed February 18, 1921. Serial No. 143,768. PUBLISHED JUNE 28, 1921.

148,168. DOLLS. MAY R. MORAN, Kansas City, Mo.
Filed November 26, 1920. Serial No. 140,193. PUBLISHED JULY 26, 1921.

148,169. CERTAIN NAMED ELECTRICAL APPARATUS. MULTI ELECTRICAL MFG. COMPANY, Chicago, Ill.
Filed March 21, 1921. Serial No. 145,524. PUBLISHED JUNE 7, 1921.

148,170. PAPETERIES, WRITING-PAPER, AND MAILING-ENVELOPS. THE JOHN A. MURPHY COMPANY, Springfield, Mass.
Filed March 10, 1921. Serial No. 144,580. PUBLISHED JUNE 28, 1921.

148,171. A MEDICINE USED IN THE TREATMENT OF THE LIVER AND BOWELS. M-Z PHARMACAL CO., Brazil, Ind.
Filed December 11, 1920. Serial No. 140,965. PUBLISHED JULY 5, 1921.

148,172. A PERIODICAL ISSUED MONTHLY. NATIONAL ANILINE & CHEMICAL COMPANY, INC., New York, N. Y.
Filed April 15, 1921. Serial No. 146,229. PUBLISHED JUNE 21, 1921.

148,173. LOOSE-LEAF AND BOUND BLANK BOOKS AND INDEXES. NATIONAL BLANK BOOK CO., Holyoke, Mass.
Filed March 21, 1921. Serial No. 145,085. PUBLISHED JUNE 7, 1921.

148,174. PERIODICALS, WHICH PERIODICALS ARE ISSUED WEEKLY OR OFTENER, AS DEEMED ADVISABLE. THE NATIONAL CASH REGISTER COMPANY, Dayton, Ohio.
Filed March 7, 1921. Serial No. 144,410. PUBLISHED JUNE 21, 1921.

148,175. SOAP. NATIONAL CHEMICAL COMPANY, Syracuse, N. Y.
Filed January 2, 1920. Serial No. 126,739. PUBLISHED JUNE 14, 1921.

148,176. CERTAIN NAMED BLANK BOOKS AND FORMS. NATIONAL THRIFT ASSOCIATION, Minneapolis, Minn.
Filed January 25, 1921. Serial No. 142,764. PUBLISHED JUNE 28, 1921.

148,177. LIQUID SPOKE-FASTENER. NAVAJO LABORATORIES, INC., Casper, Wyo.
Filed April 30, 1921. Serial No. 146,460. PUBLISHED JUNE 28, 1921.

148,178. MECHANICS' SOAP IN CAKE, PASTE, OR LIQUID FORM. NAVAJO LABORATORIES, INC., Casper, Wyo.
Filed April 21, 1921. Serial No. 146,495. PUBLISHED JUNE 14, 1921.

148,179. WOVEN COTTON PIECE GOODS—NAMELY, WIDE BLEACHED SHEETINGS. NEUSS, HESSLEIN & CO., INC., New York, N. Y.
Filed April 9, 1921. Serial No. 145,959. PUBLISHED JUNE 21, 1921.

148,180. WOVEN COTTON PIECE GOODS—NAMELY, COTTON DRILLS. NEUSS, HESSLEIN & CO., INC., New York, N. Y.
Filed April 15, 1921. Serial No. 146,232. PUBLISHED JULY 5, 1921.

148,181. WOVEN AND KNITTED UNDERWEAR FOR MEN, WOMEN, AND CHILDREN. NEW ENGLAND KNITTING COMPANY, Winsted, Conn.
Filed March 11, 1921. Serial No. 144,633. PUBLISHED JUNE 28, 1921.

148,182. PAINT-PIGMENTS, AND PARTICULARLY ZINC OXID, LEADED ZINC OXID, OCHER, AND LITHOPONE. THE NEW JERSEY ZINC COMPANY, New York, N. Y.
Filed May 31, 1917. Serial No. 104,173. PUBLISHED JUNE 14, 1921.

148,185. ZINC OXID USED IN THE MANUFACTURE OF INKS. The New Jersey Zinc Company, New York, N. Y.
Filed October 11, 1920. Serial No. 133,179. PUBLISHED JUNE 14, 1921.

148,184. CERTAIN NAMED CHEMICAL PREPARATIONS. The New Jersey Zinc Company, New York, N. Y.
Filed October 11, 1920. Serial No. 133,180. PUBLISHED JUNE 14, 1921.

148,185. ZINC IN CERTAIN FORMS. The New Jersey Zinc Company, New York, N. Y.
Filed October 11, 1920. Serial No. 133,181. PUBLISHED JUNE 14, 1921.

148,186. HAIR-NETS. New York Merchandise Company, New York, N. Y.
Filed May 24, 1921. Serial No. 143,160. PUBLISHED JULY 19, 1921.

148,187. CONDENSED MILK. Northern New York Milk Corp'n, Pierrepont Manor, N. Y.
Filed April 4, 1921. Serial No. 145,701. PUBLISHED JULY 12, 1921.

148,188. ABRASIVE PRODUCTS—NAMELY, POWDERS, GRAINS, PASTES, STONES, HONES, OILSTONES, VALVE-GRINDING COMPOUNDS, AND GRINDING, CUTTING, POLISHING AND ABRADING WHEELS. Norton Company, Worcester, Mass.
Filed April 2, 1921. Serial No. 145,640. PUBLISHED JUNE 14, 1921.

148,189. BUILDING-BLOCKS. Frank A. Noullet, Covington, La.
Filed January 3, 1921. Serial No. 141,704. PUBLISHED JULY 12, 1921.

148,190. SOLE-LEATHER. Oak Chrome & Stone Chrome Leather Co., Massey, Ohio.
Filed January 27, 1921. Serial No. 142,851. PUBLISHED JULY 12, 1921.

148,191. FRESH CITRUS FRUITS—VIZ., ORANGES, GRAPEFRUIT, AND TANGERINES. Orlando Citrus Growers Association, Orlando, Fla.
Filed December 29, 1920. Serial No. 141,648. PUBLISHED AUGUST 2, 1921.

148,192. AN INSECTICIDE, GERMICIDE, AND ANTISEPTIC. S. E. Osborne, Greenwood, Miss.
Filed April 1, 1921. Serial No. 145,580. PUBLISHED JULY 12, 1921.

148,193. FERTILIZERS. Osias Karp & Gustav Weiner-Cassel, New York, N. Y.
Filed March 8, 1921. Serial No. 144,471. PUBLISHED JUNE 28, 1921.

148,194. CERTAIN NAMED ELECTRICAL APPARATUS. Overseas Motor Service Corporation, New York, N. Y.
Filed February 25, 1921. Serial No. 144,037. PUBLISHED JUNE 7, 1921.

148,195. CERTAIN NAMED AUTOMOBILE ACCESSORIES. Owl Auto Products Company, Inc., New York, N. Y.
Filed April 26, 1920. Serial No. 131,649. PUBLISHED JULY 5, 1921.

148,196. HAIRPINS. Pacific Novelty Company, New York, N. Y.
Filed April 8, 1921. Serial No. 145,909. PUBLISHED JUNE 21, 1921.

148,197. CHOCOLATE, COCOA-POWDER, AND COCOA-BUTTER. Page & Shaw, Inc., Cambridge, Mass.
Filed February 3, 1921. Serial No. 143,140. PUBLISHED AUGUST 2, 1921.

148,198. ASSORTED HARD CANDY, CHOCOLATES, AND CANDY-BARS. Palmer Candy Co., Sioux City, Iowa.
Filed March 14, 1921. Serial No. 144,746. PUBLISHED JUNE 28, 1921.

148,199. HAMMOCKS. The J. E. Parish Co., Middletown, Conn.
Filed October 15, 1920. Serial No. 136,239. PUBLISHED JUNE 21, 1921.

148,200. SOAP. The Palmolive Co. of Canada, Ltd., Toronto, Ontario, Canada.
Filed March 8, 1921. Serial No. 144,473. PUBLISHED JULY 5, 1921.

148,201. TOILET-PAPER, TISSUE-PAPER, CREPE PAPER, AND PAPER TOWELS. A. P. W. Paper Company, Albany, N. Y.
Filed April 9, 1921. Serial No. 145,925. PUBLISHED JULY 19, 1921.

148,202. TRACTORS. Bennett J. Paterch, Minneapolis, Minn.
Filed June 24, 1919. Serial No. 119,915. PUBLISHED JUNE 28, 1921.

148,203. MECHANICALLY-ACTUATED AUTOMOBILE DIRECTION-SIGNALS. P-A-T-S Manufacturing Company, Lodi, Calif.
Filed March 5, 1921. Serial No. 144,346. PUBLISHED JUNE 28, 1921.

148,204. ASPIRIN TABLETS. Joseph C. Patterson, Dayton, Ohio.
Filed January 3, 1921. Serial No. 141,989. PUBLISHED JULY 5, 1921.

148,205. RECONSTRUCTED RUBIES, RECONSTRUCTED SAPPHIRES, RING-MOUNTINGS. Henry Paulson, Chicago, Ill.
Filed November 29, 1920. Serial No. 140,406. PUBLISHED JULY 5, 1921.

148,206. WATCH-OIL AND CLOCK-OIL. Henry Paulson, Chicago, Ill.
Filed November 29, 1920. Serial No. 140,407. PUBLISHED JULY 12, 1921.

148,207. COFFEE. The Pearl Coffee Company, Akron, Ohio.
Filed December 15, 1920. Serial No. 141,128. PUBLISHED AUGUST 2, 1921.

148,208. A MONTHLY PUBLICATION. Pels-Jones, New York, N. Y.
Filed March 28, 1921. Serial No. 146,388. PUBLISHED JUNE 21, 1921.

148,209. A SANDWICH-CAKE WITH FILLER OF SUGAR CREAM, THE WHOLE COVERED WITH CHOCOLATE. Perfection Biscuit Company, Fort Wayne, Ind.
Filed February 5, 1921. Serial No. 143,220. PUBLISHED JUNE 28, 1921.

148,210. MILK-SUGAR. Phenix Cheese Co., New York, N. Y.
Filed December 11, 1920. Serial No. 140,961. PUBLISHED JULY 19, 1921.

148,211. CHOCOLATE CANDY. Pig & Whistle Company, San Francisco, Calif.
Filed April 13, 1921. Serial No. 146,139. PUBLISHED JULY 26, 1921.

148,212. RAZORS. Pike Manufacturing Company, Pike and Littleton, N. H.; Evansville, Vt.; Orleans, Ind.; Hot Springs, Ark., and New York, N. Y.
Filed April 2, 1921. Serial No. 145,644. PUBLISHED JULY 5, 1921.

148,213. CANDY. The Pirika Chocolate Co., Inc., Brooklyn, N. Y.
Filed April 9, 1921. Serial No. 145,967. PUBLISHED JULY 19, 1921.

148,214. WRITING-PAPER. Herman G. Pohlmann, Chicago, Ill.
Filed March 14, 1921. Serial No. 144,736. PUBLISHED JUNE 7, 1921.

148,215. HAIR-TONIC. The Potentia Company, Detroit, Mich.
Filed March 23, 1921. Serial No. 145,126. PUBLISHED JUNE 28, 1921.

148,216. NEAR BEER AND MALT TONIC CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. OF ALCOHOL, BY VOLUME, SOLD AS A BEVERAGE. Primalt Products Company, Chicago, Ill.
Filed December 21, 1920. Serial No. 141,287. PUBLISHED JULY 5, 1921.

148,217. WOOLEN PIECE GOODS. Pacific Textile Mills, Inc., New York, N. Y.
Filed April 19, 1921. Serial No. 146,389. PUBLISHED JULY 26, 1921.

148,218. EDIBLE COCOANUT-OIL. The Procter and Gamble Company, Cincinnati, Ohio.
Filed February 5, 1921. Serial No. 143,219. PUBLISHED JUNE 28, 1921.

148,219. SHOE-LACES. Providence Braid Company, Inc., Pawtucket, R. I.
Filed March 29, 1921. Serial No. 145,414. PUBLISHED JULY 5, 1921.

148,220. BLOW-TORCHES AND GAS-HEATERS. Fumeless Blow Torch Company, Pittsburgh, Pa.
Filed March 17, 1921. Serial No. 144,874. PUBLISHED JUNE 21, 1921.

148,221. A PREPARATION FOR PREVENTION OF VENEREAL INFECTIONS. The Q. T. Manufacturing Co., New York, N. Y.
Filed February 25, 1921. Serial No. 144,045. PUBLISHED JUNE 28, 1921.

148,222. WHEAT-FLOUR AND RULLED OATS. The Quaker Oats Company, Chicago, Ill.
Filed February 24, 1921. Serial No. 142,720. PUBLISHED JUNE 28, 1921.

148,223. OINTMENT FOR THE TREATMENT OF ECZEMA AND OTHER ITCHING SKIN DISEASES, PIMPLES, &c. Samuel Kaufmann, Cincinnati, Ohio.
Filed January 24, 1921. Serial No. 143,722. PUBLISHED JUNE 28, 1921.

148,224. BITUMINOUS COAL. Raleigh Smokeless Fuel Company, Beckley, W. Va.
Filed April 20, 1921. Serial No. 146,021. PUBLISHED AUGUST 2, 1921.

148,225. CREAM SALAD-DRESSING. Mrs. Mamie O. Rowsam, Cottonwood, Idaho.
Filed April 2, 1921. Serial No. 145,648. PUBLISHED JUNE 28, 1921.

148,226. GRAIN AND HORSE FEED. Ernest Redd, Birmingham, Ala.
Filed January 28, 1921. Serial No. 142,907. PUBLISHED JUNE 28, 1921.

148,227. SHEET-RUBBER PATCHES FOR INNER TUBES AND TIRES FOR VEHICLES. The Red Devil Patch Co., Hopkinsville, Ky.
Filed March 26, 1921. Serial No. 146,128. PUBLISHED JULY 19, 1921.

148,228. POLISHING COMPOSITIONS—NAMELY, BUFFS, POLISHING-WHEELS, AND METAL-POLISH. E. Reed Burns Supply Company, Brooklyn, N. Y.
Filed April 13, 1921. Serial No. 146,105. PUBLISHED JUNE 14, 1921.

148,229. KNITTED AND TEXTILE UNDERWEAR AND HOSIERY. Robert Reis & Co., New York, N. Y.
Filed December 31, 1919. Serial No. 126,697. PUBLISHED MARCH 30, 1920.

148,230. ELECTRICAL-RESISTANCE ELEMENTS. Hugo Reisinger, New York, N. Y.
Filed April 4, 1921. Serial No. 145,715. PUBLISHED JULY 12, 1921.

148,231. A TRADE PUBLICATION ISSUED BI-WEEKLY. Rubber Merchants Association of America, New York, N. Y.
Filed April 1, 1921. Serial No. 145,691. PUBLISHED JUNE 21, 1921.

148,232. THE BUYERS' DIRECTORIES PUBLISHED SEMI-YEARLY. The Buyers' Directory Corporation, Chicago, Ill.
Filed March 15, 1921. Serial No. 144,807. PUBLISHED JUNE 14, 1921.

148,233. CERTAIN RECEPTACLE AND METAL PARTS WASHERS AND SILENCERS FILLERS, CAPPERS, AND PASTEURIZERS. Geo. C. Adams Corporation, Buffalo, N. Y.
Filed January 27, 1921. Serial No. 142,895. PUBLISHED JULY 12, 1921.

148,234. CANDY. Nave Chocolate Company, Boston, Mass.
Filed April 27, 1921. Serial No. 146,550. PUBLISHED JULY 26, 1921.

148,235. HAIR-NETS. Irving W. Rich, New York, N. Y.
Filed April 9, 1921. Serial No. 145,971. PUBLISHED JULY 5, 1921.

148,236. CHOCOLATE CANDIES. Ghirardelli Chocolate Co., San Francisco, Calif.
Filed December 20, 1920. Serial No. 141,691. PUBLISHED AUGUST 2, 1921.

148,237. LADIES' WAISTS. Ripon Shirtwaist Company, Ripon, Wis.
Filed September 24, 1920. Serial No. 137,301. PUBLISHED JULY 12, 1921.

148,238. CANDY. Robertson & Watson, Evanston, Ill.
Filed April 30, 1921. Serial No. 147,049. PUBLISHED JULY 26, 1921.

148,239. A MEDICINAL PREPARATION FOR CERTAIN PURPOSES. Wm. B. Robinson, M. D., Mount Gilead, Ohio.
Filed November 13, 1920. Serial No. 139,631. PUBLISHED JULY 19, 1921.

148,240. OLIVE-OIL AND MIXTURES OF OLIVE-OIL WITH OTHER VEGETABLE OILS. Rockfell & Viktor, New York, N. Y.
Filed April 7, 1921. Serial No. 146,059. PUBLISHED JUNE 28, 1921.

148,241. MALT EXTRACT USED AS AN INGREDIENT OF FOOD. M. C. Robinson Company, Boston, Mass.
Filed January 10, 1921. Serial No. 142,032. PUBLISHED AUGUST 2, 1921.

148,242. A SOLUTION FOR CHAPPED HANDS AND FACE. Augustus Royce, Brooklyn, N. Y.
Filed March 22, 1921. Serial No. 145,996. PUBLISHED JUNE 28, 1921.

148,243. CANNED BERRIES—NAMELY, STRAWBERRIES, BLACK AND RED RASPBERRIES, AND BLACKBERRIES—AND CANNED FRUITS—NAMELY, CANNED CHERRIES. Ruby Textiles Carpe, Bangor, Mich.
Filed December 21, 1920. Serial No. 141,600. PUBLISHED JULY 5, 1921.

148,244. AN EXTERNAL AND INTERNAL MEDICINAL PREPARATION FOR CERTAIN NAMED PURPOSES. Rusco Dose Co., Portland, Oreg.
Filed April 1, 1921. Serial No. 145,602. PUBLISHED JULY 12, 1921.

148,245. MARSHMALLOWS, CHOCOLATES, FUDGE, FILLED CANDIES, HARD CANDIES, AND FIGS CANDIES. Ruckheim Bros. & Eckstein, Chicago, Ill.
Filed April 8, 1921. Serial No. 145,914. PUBLISHED JULY 19, 1921.

148,246. PHONOGRAPH-RECORD-CLEANING ATTACHMENTS AND THE WIPERS USED IN CONNECTION THEREWITH. Jesse Rusk, Stillwater, Minn.
Filed June 8, 1920. Serial No. 133,429. PUBLISHED JUNE 14, 1921.

148,247. SUSPENDERS. The Russell Manufacturing Company, Middletown, Conn.
Filed April 28, 1920. Serial No. 131,748. PUBLISHED JULY 5, 1921.

148,245. HALTERS, SURCINGLES, GIRTHS, WEB HARNESS, AND AUTO, BAG, SCHOOL, LOWERING, AND BUNDLING STRAPS. THE BUSSELL MANUFACTURING COMPANY, Middletown, Conn.
Filed July 16, 1920. Serial No. 135,008. PUBLISHED JULY 26, 1921.

148,249. CLOTH-BRUSHES, BONNET-BRUSHES, HAT-BRUSHES, AND HAIR-BRUSHES. SAMTAG & HILDER BROS., New York, N. Y.
Filed January 27, 1920. Serial No. 127,068. PUBLISHED MAY 25, 1920.

148,250. CERTAIN NAMED MEDICINAL, CHEMICAL, AND PHARMACEUTICAL PREPARATIONS. SAN ANTONIO DRUG CO., San Antonio, Tex.
Filed January 20, 1920. Serial No. 127,396. PUBLISHED JUNE 14, 1921.

148,251. CERTAIN BUTTER-MIXERS AND COMBINATION PAPER-BOTTLE-CAP REMOVING AND TIN-CAN-PUNCTURING TOOLS. SANITARY NOVELTY COMPANY, Indianapolis, Ind.
Filed April 24, 1920. Serial No. 131,002. PUBLISHED JULY 5, 1921.

148,252. MEDICINE FOR RELIEVING INFLUENZA, PNEUMONIA, AND INFLAMMATION OF LUNGS. FRANK SARAPAS, Elmond, Ill.
Filed February 3, 1921. Serial No. 143,144. PUBLISHED JULY 12, 1921.

148,253. MOCCASINS. SAWYER BOOT & SHOE CO., Bangor, Me.
Filed March 7, 1921. Serial No. 144,490. PUBLISHED JUNE 21, 1921.

148,254. WEDDING AND EVENING DRESSES. FRANK SCHNEIDER, New York, N. Y.
Filed December 13, 1920. Serial No. 141,044. PUBLISHED JULY 5, 1921.

148,255. COMBINED PACKING AND DISPLAY RECEPTACLES FOR NECKTIES. NATHAN SCHONFELD, New York, N. Y.
Filed November 25, 1919. Serial No. 125,306. PUBLISHED JUNE 21, 1921.

148,256. HONEY, PRESERVED ORANGE, ORANGE MARMALADE, ORANGE JELLY, AND ORANGE JAM. MAE H. SCHWINGEL, San Fernando, Calif.
Filed May 3, 1920. Serial No. 131,905. PUBLISHED JULY 19, 1921.

148,257. A TOILET PREPARATION WHICH IS ADDED TO BATHS IN ORDER TO REDUCE SUPERFLUOUS FLESH. SCOTT'S PREPARATIONS INC., New York, N. Y.
Filed December 31, 1920. Serial No. 141,734. PUBLISHED JUNE 21, 1921.

148,258. READY-MIXED PAINTS, PASTE PAINTS, PAINT-OILS, VARNISHES, DRY COLORS, JAPAN COLORS, AND OIL-COLORS. ALBERT K. SHELDON COMPANY, Boston, Mass.
Filed June 12, 1920. Serial No. 133,685. PUBLISHED JULY 5, 1921.

148,259. SHOE-REPAIRS CONSISTING OF LEATHER SOLES AND HEELS. EMMANUEL V. SHIVERS, Baltimore, Md.
Filed January 13, 1921. Serial No. 142,240. PUBLISHED JULY 12, 1921.

148,260. A PERIODICAL PUBLISHED WEEKLY. THE SHOE RETAILER COMPANY, Boston, Mass.
Filed April 15, 1921. Serial No. 146,239. PUBLISHED JUNE 21, 1921.

148,261. FIELD-SEEDS. DANIEL D. SIMMONS, Minot, N. D.
Filed April 4, 1921. Serial No. 145,722. PUBLISHED JULY 12, 1921.

148,262. FOUNTAIN-PENS. SIMPLO FULLFEDER-GESELLSCHAFT VORM, LAUSEN U. DRIAMBOR, Hamburg, Germany.
Filed February 16, 1920. Serial No. 128,435. PUBLISHED JUNE 7, 1921.

148,263. DRESSES. GUY D. STROUP COMPANY, Los Angeles, Calif.
Filed October 27, 1920. Serial No. 139,661. PUBLISHED JULY 12, 1921.

148,264. A PLASTIC RUBBER MATERIAL FOR REPAIRING TIRES, WATER-BAGS, HOSE, BOOTS, SHOES, ICE-BAGS, BLANKETS, AND OTHER RUBBER ARTICLES. JAMES H. SMITH, Philadelphia, Pa.
Filed December 16, 1919. Serial No. 136,807. PUBLISHED JUNE 28, 1921.

148,265. TOILET SOAPS, PERFUMED TOILET SOAPS, AND HOUSEHOLD SOAPS. SOCIÉTÉ ANONYME DES PARFUMERIES RAMSES, Paris, France.
Filed December 22, 1920. Serial No. 141,437. PUBLISHED JUNE 14, 1921.

148,266. OLIVE-OIL. SOCIETÉ COMMERCIALE PENINSULAIRE GAILLARD & ADEMA, Seville, Spain.
Filed May 16, 1919. Serial No. 118,572. PUBLISHED JUNE 28, 1921.

148,267. LAUNDRY BLUE. WILLIAM E. SPENCE, New York, N. Y.
Filed March 7, 1921. Serial No. 144,482. PUBLISHED JUNE 28, 1921.

148,268. SPARK-PLUGS. SPIRO SPARK PLUG CO., Anderson, Ind.
Filed February 5, 1921. Serial No. 143,223. PUBLISHED JUNE 7, 1921.

148,269. WOOD-PRESERVATIVES AND FLY-SPRAYS. STANDARD TAR PRODUCTS CO., Milwaukee, Wis.
Filed January 26, 1921. Serial No. 142,815. PUBLISHED JULY 12, 1921.

148,270. CERTAIN PRECISION TOOLS FOR MECHANICS. THE STANLEY WORKS, New Britain, Conn.
Filed January 6, 1921. Serial No. 141,928. PUBLISHED JULY 5, 1921.

148,271. OPHTHALMIC MOUNTINGS AND PARTS THEREOF. STEVENS & COMPANY, INC., Providence, R. I.
Filed April 9, 1921. Serial No. 145,979. PUBLISHED JUNE 28, 1921.

148,272. LADIES' AND CHILDREN'S BLOUSES, DRESSES, SKIRTS, SUITS, AND BLOOMERS. STRAUS, ROTH & STRAUS, INC., Baltimore, Md.
Filed March 14, 1921. Serial No. 144,753. PUBLISHED JULY 26, 1921.

148,273. ENGINE-CYLINDER DRESSERS. STRICKMEYER AND LEE, Creighton, Nebr.
Filed April 2, 1921. Serial No. 145,852. PUBLISHED JULY 5, 1921.

148,274. KNOCKDOWN CLOTHES-HAMPERS, WASTE-BASKETS, AND TRAYS FOR HOLDING TOILET ARTICLES. CHARLES H. SMITH, Malden, Mass.
Filed April 19, 1920. Serial No. 131,355. PUBLISHED JULY 5, 1921.

148,275. MOLASSES. SUGAR PRODUCTS CO., New York, N. Y.
Filed October 22, 1920. Serial No. 138,693. PUBLISHED AUGUST 2, 1921.

148,276. A RECONSTRUCTIVE AND STRENGTHENING TONIC. CHARLES AUGUST SUHR, West Hoboken, N. J.
Filed January 6, 1921. Serial No. 141,926. PUBLISHED JUNE 28, 1921.

148,277. A COOLING, SOOTHING, ANTISEPTIC PREPARATION FOR EXTERNAL USE. AMBROSE S. SWEET, Elmira, N. Y.
Filed January 27, 1921. Serial No. 143,857. PUBLISHED JULY 12, 1921.

148,278. TOILET SOAPS. SWIFT AND COMPANY, Chicago, Ill.
Filed March 2, 1921. Serial No. 144,256. PUBLISHED JUNE 14, 1921.

148,279. FOOT-POWDER. MARTAN TANSKI, Syracuse, N. Y.
Filed June 19, 1920. Serial No. 133,947. PUBLISHED JUNE 21, 1921.

148,280. HAIR-NETS. DAVID TREITELBAUM, New York, N. Y.
Filed December 26, 1920. Serial No. 141,837. PUBLISHED MAY 17, 1921.

148,281. MINCE-PIE FILLING, FRUIT PRESERVES, JAM, APPLE-BUTTER, FRUIT JELLY, AND SORGHUM WITH CORN-SYRUP. TEMPTOR CORN & FRUIT PRODUCTS CO., St. Louis, Mo.
Filed March 24, 1921. Serial No. 145,178. PUBLISHED JUNE 21, 1921.

148,282. CANNED FRUITS AND VEGETABLES. THOMAS-BODY COMPANY, San Francisco, Calif.
Filed December 30, 1920. Serial No. 141,702. PUBLISHED AUGUST 2, 1921.

148,283. CANNED FISH. A/S TRONDHJEM CANNING AND EXPORT CO., Buran, Trondhjem, Norway.
Filed November 26, 1920. Serial No. 140,218. PUBLISHED AUGUST 2, 1921.

148,284. COFFEE. HAL W. TUCKER, San Antonio, Tex.
Filed February 21, 1921. Serial No. 143,572. PUBLISHED JUNE 28, 1921.

148,285. A POWDER TO BE USED ON THE FEET AND ARMPITS. TWILL MANUFACTURING CO., Prescott, Iowa.
Filed January 26, 1921. Serial No. 142,817. PUBLISHED JUNE 28, 1921.

148,286. CEREAL BREAKFAST FOODS—NAMELY, CORN-FLAKES. UNITED CEREAL MILLS, LTD., Quincy, Ill.
Filed February 10, 1919. Serial No. 115,743. PUBLISHED MAY 10, 1921.

148,287. COMPOSITIONS CONTAINING ALCOHOL FOR BATHING, MASSAGE, AND OTHER EXTERNAL USES. U. S. INDUSTRIAL ALCOHOL CO., New York, N. Y.
Filed February 4, 1921. Serial No. 143,193. PUBLISHED JULY 19, 1921.

148,288. COMPOSITIONS CONTAINING ALCOHOL FOR BATHING AND MASSAGE AND OTHER EXTERNAL USES. U. S. INDUSTRIAL ALCOHOL CO., New York, N. Y.
Filed February 4, 1921. Serial No. 143,194. PUBLISHED JULY 19, 1921.

148,289. CERTAIN NAMED JEWELRY AND PRECIOUS-METAL WARE. J. VANDER ZANDEN, Green Bay, Wis.
Filed January 10, 1921. Serial No. 142,053. PUBLISHED JULY 12, 1921.

148,290. TEAS, COFFEES, FOOD-FLAVORING EXTRACTS, SPICES. JOHN HENRY VAN WINKLE, East Orange, N. J.
Filed February 3, 1921. Serial No. 143,146. PUBLISHED AUGUST 2, 1921.

148,291. TELEGRAPHIC SENDING-MACHINES. THE WIMOPLEX COMPANY, INC., New York, N. Y.
Filed May 11, 1920. Serial No. 132,332. PUBLISHED JUNE 7, 1921.

148,292. SHOE-THREAD. VICTOR SHOE MACHINERY COMPANY, Lynn, Mass.
Filed January 24, 1921. Serial No. 142,737. PUBLISHED JUNE 28, 1921.

148,293. HOSIERY. A. V. VICTORIUS & COMPANY INC., New York, N. Y.
Filed January 4, 1921. Serial No. 141,846. PUBLISHED APRIL 26, 1921.

148,294. CRUDE-OIL BURNERS. VICTORY OIL BURNER COMPANY, Houston, Tex.
Filed April 6, 1921. Serial No. 145,805. PUBLISHED JUNE 28, 1921.

148,295. CHOCOLATE CREAMS. VINCENNES CANDY CO. INC., Vincennes, Ind.
Filed January 4, 1921. Serial No. 141,847. PUBLISHED AUGUST 2, 1921.

148,296. TRUNKS AND TRAVELING-BAGS. VIRGINIA TRUNK AND BAG CO., Petersburg, Va.
Filed June 28, 1920. Serial No. 134,337. PUBLISHED MAY 31, 1921.

148,297. HOSE-CLAMPS. CHARLES VITEK, Chicago, Ill.
Filed January 14, 1921. Serial No. 142,276. PUBLISHED JULY 5, 1921.

148,298. BATTERY-BOXES, SWITCHBOARDS, AND GENERATORS. VOLTA BATTERY COMPANY, Indianapolis and Martinsville, Ind.
Filed March 21, 1921. Serial No. 145,049. PUBLISHED JUNE 7, 1921.

148,299. COFFEE AND TEA. WABASH BAKING POWDER COMPANY, Wabash, Ind.
Filed February 1, 1921. Serial No. 143,074. PUBLISHED AUGUST 2, 1921.

148,300. PAPER BAGS AND PAPER BOXES. WALTHAM BAG & PAPER COMPANY, Waltham, Mass.
Filed November 28, 1919. Serial No. 126,413. PUBLISHED APRIL 19, 1921.

148,301. CRYSTALLINE MALT EXTRACT. THE WANDER COMPANY, Chicago, Ill.
Filed November 26, 1920. Serial No. 140,239. PUBLISHED JULY 12, 1921.

148,302. WHEAT-FLOUR. WASHBURN-CROSBY COMPANY, Minneapolis, Minn.
Filed April 8, 1920. Serial No. 130,867. PUBLISHED JULY 5, 1921.

148,303. HOSIERY FOR MEN, WOMEN, AND CHILDREN. WATTS, ESTTES & COMPANY, Huntington, W. Va., and New York, N. Y.
Filed April 17, 1920. Serial No. 131,293. PUBLISHED JULY 5, 1921.

148,304. CERTAIN NAMED NOTIONS, SUCH AS GARMENT-FASTENERS, NEEDLES, PINS. WALDES & Co., Prague, Bohemia, assignor to Waldes & Co., Inc., a Corporation of New York.
Filed July 20, 1919. Serial No. 121,064. PUBLISHED JULY 5, 1921.

148,305. PRINTING-PAPER. S. D. WARREN COMPANY, Boston, Mass.
Filed March 29, 1921. Serial No. 145,421. PUBLISHED JUNE 14, 1921.

148,306. WAX-PAPER. WAXIDE PAPER CO., Kansas City, Mo.
Filed March 22, 1921. Serial No. 145,095. PUBLISHED JUNE 7, 1921.

148,307. WRITING AND TYPEWRITING PAPER. FRED. WEBSTER PAPER COMPANY, Holyoke, Mass.
Filed March 7, 1921. Serial No. 144,442. PUBLISHED JUNE 14, 1921.

148,308. YARNS. HYMAN WEISSBERG, New York, N. Y.
Filed March 23, 1921. Serial No. 145,140. PUBLISHED June 21, 1921.

148,309. CAST, PRESSED, AND SPUN ALUMINUM COOKING UTENSILS. WESTERN ALUMINUM MANUFACTURING COMPANY, Emeryville, Calif.
Filed February 7, 1921. Serial No. 143,206. PUBLISHED JUNE 28, 1921.

148,310. SHEET-METAL CULVERTS, WELL-CASINGS OF CERTAIN TYPES, FLOOD-GATES, AND LEAD GAS CONNECTIONS. WHEELING CORRUGATING COMPANY, Wheeling, W. Va.
Filed January 31, 1921. Serial No. 143,026. PUBLISHED JULY 12, 1921.

148,311. FABRICATED INSOLING. FRANK W. WHITCHER COMPANY, Portland, Me., and Boston, Mass.
Filed September 22, 1920. Serial No. 137,506. PUBLISHED JANUARY 18, 1921.

148,312. NEAR BEER. THE WHITE EAGLE BREWING COMPANY, Chicago, Ill.
Filed April 22, 1921. Serial No. 146,606. PUBLISHED JULY 5, 1921.

148,213. CORN REMEDY. John J. Wellmann, Brooklyn, N. Y.
Filed March 1, 1921. Serial No. 144,213. PUBLISHED JULY 19, 1921.

148,214. HATCHETS. Winchester Repeating Arms Co., New Haven, Conn.
Filed March 3, 1921. Serial No. 144,304. PUBLISHED June 28, 1921.

148,215. A MEDICATED WINE FOR USE AS A GENERAL TONIC. Wines, Limited, Richmond, England.
Filed March 2, 1921. Serial No. 144,264. PUBLISHED JULY 12, 1921.

148,216. CERTAIN NAMED TOILET PREPARATIONS. Elsie C. Wippel, Cincinnati, Ohio.
Filed February 5, 1921. Serial No. 143,285. PUBLISHED JUNE 28, 1921.

148,217. WOVEN RUGS. Joseph Wittmann, New York, N. Y.
Filed October 26, 1920. Serial No. 138,980. PUBLISHED JULY 5, 1921.

148,218. FURNITURE AND HOUSE-FURNISHING GOODS. Wohlgarth & Esos Co., Inc., Newark, N. J.
Filed August 20, 1919. Serial No. 121,955. PUBLISHED JULY 5, 1921.

148,219. CERTAIN NAMED POCKET-FLASKS. Weeks & Chatellier, Inc., New York, N. Y.
Filed March 14, 1921. Serial No. 144,758. PUBLISHED JULY 12, 1921.

148,220. SHOVELS, SPADES, SCOOPS, AND DRAINAGE-TOOLS. The Wood Shovel & Tool Company, Piqua, Ohio.
Filed March 5, 1921. Serial No. 144,297. PUBLISHED JUNE 28, 1921.

148,221. A COMPOUND FOR RENDERING LEATHER SOFT, FLEXIBLE, AND PLIABLE. Chas. W. Young & Co., Philadelphia, Pa.
Filed December 9, 1920. Serial No. 140,585. PUBLISHED JUNE 14, 1921.

148,222. PASTES, INCLUDING LIBRARY, OFFICE, AND FACTORY PASTE, MUCILAGE, AND GLUE. Zim Products Co., New York and Brooklyn, N. Y.
Filed April 18, 1921. Serial No. 146,300. PUBLISHED JUNE 28, 1921.

148,223. A SERVICE-RING USED IN PYRAMIDING PLATES, DISHES, AND THE LIKE FOR HOTELS, &c., Zoia Banquetier Co., Cleveland, Ohio.
Filed March 12, 1921. Serial No. 144,656. PUBLISHED JUNE 28, 1921.

TRADE-MARK REGISTRATIONS GRANTED

UNDER THE ACT OF MARCH 19, 1920, SEC. 1 (b).

NOVEMBER 8, 1921.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

148,324. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) C. L. Best Tractor Co., San Leandro, Calif. Filed Apr. 18, 1921. Serial No. 146,292.

BEST

Particular description of goods.—Tractors.
Claims use since 1913.

148,325. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Geo. P. Brown Company, Chicago, Ill. Filed Mar. 6, 1920. Serial No. 129,802.

Favorite

Particular description of goods.—Oleomargarin.
Claims use since Dec. 1, 1904.

148,326. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. M. Corey Flour & Grain Co., Birmingham, Ala. Filed Apr. 2, 1921. Serial No. 145,610.

PURITY

Particular description of goods.—Chicken Feed.
Claims use since spring of 1912.

148,327. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) Dorris Motor Car Company, St. Louis, Mo. Filed July 18, 1921. Serial No. 150,520.

DORRIS

Particular description of goods.—Automobiles.
Claims use since about Aug. 15, 1905.

148,328. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Famous Biscuit Company, Pittsburgh, Pa. Filed Apr. 1, 1921. Serial No. 145,562.

PRIZE

Particular description of goods.—Soda Crackers and Biscuits.
Claims use since May 12, 1919.

148,329. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B. Fischman & Co., Inc., New York, N. Y. Filed Feb. 3, 1921. Serial No. 142,123.

ASTOR

Particular description of goods.—Rice.
Claims use since Jan. 8, 1921.

148,330. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Forstmann & Huffmann Co., Passaic, N. J. Filed Oct. 12, 1920. Serial No. 138,223.

Twillcord

Particular description of goods.—Woolen Piece Goods.
Claims use since Sept. 15, 1920.

148,221. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WILLIAM FULD, Baltimore, Md. Filed May 6, 1920. Serial No. 132,069.

..OUIJA..

EGYPTIAN LUCK BOARD

Particular description of goods.—Talking-Boards.
Claims use since 1897.

148,232. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE GRIFFIN BROOM COMPANY, Chanute, Kans. Filed June 22, 1921. Serial No. 149,507.

MADE-RIGHT

Particular description of goods.—Brooms.
Claims use since May 15, 1919.

148,333. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HARDWICK & MAGEE COMPANY, Philadelphia, Pa. Filed May 23, 1921. Serial No. 148,069.

TABOR

The drawing being lined for the purpose of shading only.
Particular description of goods.—Wilton Carpets and Rugs.
Claims use since Sept. 21, 1920.

148,334. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) WILLIAM N. LEWIS, Abingdon, Ill. Filed Mar. 28, 1921. Serial No. 145,343.

Spring Handle Floor Brush

Particular description of goods.—Floor-Brushes.
Claims use since Aug. 15, 1906.

148,335. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SAMUEL McCORMICK, St. Louis, Mo. Filed July 16, 1921. Serial No. 149,425.

KANT-SKID

Particular description of goods.—Tire-Protectors and Antiskid-Chains.
Claims use since May 31, 1919.

148,336. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) MENOMINEE MOTOR TRUCK CO., Clintonville, Wis. Filed May 24, 1921. Serial No. 148,199.

MOTOR MENOMINEE TRUCKS

Particular description of goods.—Motor-Trucks.
Claims use since on or about Jan. 1, 1917.

148,337. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JACOB MILLER SONS & CO., Philadelphia, Pa. Filed Aug. 19, 1920. Serial No. 136,274.

PARMA

Particular description of goods.—Textiles—Namely, Cotton Goods, Silk Goods, Linen Goods, Mixtures of Silk and Cotton and Silk and Linen, Woolens, Duck, and Ginghams, All in the Piece.
Claims use since Aug. 5, 1920.

148,338. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) PATTEN MANUFACTURING COMPANY, Chattanooga, Tenn. Filed July 13, 1921. Serial No. 150,333.

Patten

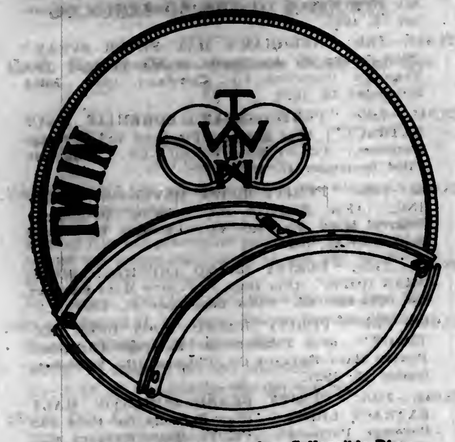
Particular description of goods.—Rubber Patches, Rubber Tires, and Rubber Tubes.
Claims use since May 20, 1920.

148,339. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) N. A. PETRY COMPANY, INC., Philadelphia, Pa. Filed Mar. 23, 1921. Serial No. 145,126.

PETRY

Particular description of goods.—Cut-Outs and Pedals for Cut-Outs and the Like.
Claims use on cut-outs since June 14, 1916; on pedals since Dec. 19, 1917.

148,340. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) HENRY SCHAECHTERLE, Friend, Nebr. Filed Dec. 10, 1920. Serial No. 140,902.



Particular description of goods.—Collapsible Rims.
Claims use since Sept. 1, 1920.

148,341. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TAYLOR, CLAFF & BEALL, New York, N. Y. Filed Aug. 26, 1921. Serial No. 152,221.

Crea Catalana
De Hilo Redondo

Particular description of goods.—Cotton Piece Goods.
Claims use since Jan. 2, 1920.

148,342. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) WESTERN BOTTLE MANUFACTURING COMPANY, Chicago, Ill. Filed Apr. 28, 1921. Serial No. 146,968.

Dr. WEST'S

Particular description of goods.—Toothbrushes.
Claims use since Feb. 1, 1920.

LABELS

REGISTERED NOVEMBER 8, 1921.

23,615.—*Title:* "ALLEN A SPRING NEEDLE UNDERWEAR." (For Underwear.) THE ALLEN A COMPANY, Kenosha, Wis. Filed September 15, 1921.

23,616.—*Title:* "ALLEN A SUMMERWEAR. (For Underwear,) THE ALLEN A COMPANY, Kenosha, Wis. Filed September 15, 1921.

23,617.—*Title:* "ALLEN A HOSIERY." (For Hosiery.) THE ALLEN A COMPANY, Kenosha, Wis. Filed September 15, 1921.

23,618.—*Title:* "NO-WET." (For Babies' Pants.) S. BERCHMAN & SONS INC., New York, N. Y. Filed September 13, 1921.

23,619.—*Title:* "BLACK AND WHITE HOOF-NOT REMEDY." (For Hoof-Rot Remedy, Fly-Repellent, and Healing-Oil for Ringworm, Mange, Cattle and Sheep.) ARTHUR A. BROCKETT, Little Falls, N. Y. Filed September 9, 1921.

23,620.—*Title:* "GARCIA BOUQUET." (For Cigars.) A. FUENTE & COMPANY, Tampa, Fla. Filed September 7, 1921.

23,621.—*Title:* "THE PRIZE." (For Chocolates.) D'ORLANDO CO., Boston, Mass. Filed August 29, 1921.

23,622.—*Title:* "BUTTER BREAD BAYER'S BAKERY." (For Bread.) THE HAMMERSLEY MANUFACTURING CO., Garfield, Mass. Filed September 12, 1921.

23,623.—*Title:* "SHURDRINK." (For Cube-Testing Straws.) PERCY H. HOWARD, Cambridge, Mass. Filed September 14, 1921.

23,624.—*Title:* "I. B. CO." (For Root-Beer.) THE INDEPENDENT BREWERIES COMPANY, St. Louis, Mo. Filed August 29, 1921.

23,625.—*Title:* "RED CEDAR." (For Canned Peas.) INDERRIEDEN CANNING CO., Chicago, Ill. Filed September 16, 1921.

23,626.—*Title:* "OLD ABE." (For Canned Peas.) INDERRIEDEN CANNING CO., Chicago, Ill. Filed September 16, 1921.

23,627.—*Title:* "KING FISHER." (For Canned Peas.) INDERRIEDEN CANNING CO., Chicago, Ill. Filed September 16, 1921.

23,628.—*Title:* "JOCKEY CLUB." (For Canned Peas.) INDERRIEDEN CANNING CO., Chicago, Ill. Filed September 16, 1921.

23,629.—*Title:* "ANGLER." (For Canned Peas.) INDERRIEDEN CANNING CO., Chicago, Ill. Filed September 16, 1921.

23,630.—*Title:* "ENSEMBLE." (For Chocolates.) H. JEVNE CO., Los Angeles, Calif. Filed August 29, 1921.

23,631.—*Title:* "RUSALKA 'QUEEN OF THE SEAS.'" (For Hair-Net Envelops.) MAX ELIHU KANTOR, New York, N. Y. Filed September 9, 1921.

23,632.—*Title:* "KRANKS NATURAL FACE POWDER." (For Boxes Containing a Face-Powder.) ALFRED J. KRANK, St. Paul, Minn. Filed August 29, 1921.

23,633.—*Title:* "LAMB." (For Prunes.) THE LAMB FRUIT COMPANY, Milton, Oreg. Filed August 29, 1921.

23,634.—*Title:* "LA MINAR." (For Cigars.) LA MINAR CIGAR MFG. [illegible], Detroit, Mich. Filed August 29, 1921.

23,635.—*Title:* "[illegible]TTUBAE." (For Mailings, Tulles, and Puttings of the Plough) Hamburger & Lansburgh Co., INC., New York, N. Y. Filed September 1, 1921.

23,636.—*Title:* "OLD DUTCH CHOCOLATES." (For Candies.) LOFT, INC., New York, N. Y. Filed September 2, 1921.

23,637.—*Title:* "ITALIAN CREAMS." (For Candies.) LOFT, INC., New York, N. Y. Filed September 2, 1921.

23,638.—*Title:* "UNIT INKS." (For Ink for Printers and Lithographers.) CHARLES J. MACARTHUR, Glen Ridge, N. J. Filed September 15, 1921.

23,639.—*Title:* "OLD ARTHUR." (For Coffee.) WILBER JUNE MEEKER, Terre Haute, Ind. Filed September 16, 1921.

23,640.—*Title:* "NEEDHAM'S HAY FEVER SPRAY." (For Sprays for the Relief of Hay-Fever.) THE NEEDHAM PRODUCTS CO., Cleveland, Ohio. Filed September 12, 1921.

23,641.—*Title:* "PURITY BRAND BOHEMIAN MALT EXTRACT." (For Extracts for Food and Beverage Purposes.) PURITY MALT EXTRACT CO., Chicago, Ill. Filed September 15, 1921.

23,642.—*Title:* "PURITY BRAND BEVERAGE COLORING." (For Extracts for Coloring Beverages.) PURITY MALT EXTRACT CO., Chicago, Ill. Filed September 15, 1921.

23,643.—*Title:* "PURITY BRAND IMPORTED BOHEMIAN HOPS." (For Hops.) PURITY MALT EXTRACT Co., Chicago, Ill. Filed September 15, 1921.

23,644.—*Title:* "PURITY BRAND ROOT BEER EXTRACT." (For Extracts for Beverage Purposes.) PURITY MALT EXTRACT CO., Chicago, Ill. Filed September 15, 1921.

23,645.—*Title:* "PURITY BRAND DOMESTIC MALT EXTRACT LIGHT." (For Extracts for Food and Beverage Purposes.) PURITY MALT EXTRACT CO., Chicago, Ill. Filed September 15, 1921.

23,646.—*Title:* "THE ROYAL LADY." (For Hair-Nets.) SAMUELS & HOLDER BROS., New York, N. Y. Filed September 16, 1921.

23,647.—*Title:* "ENTERPRISE." (For Honey.) A. J. SCHULTZ, Los Angeles, Calif. Filed August 29, 1921.

23,648.—*Title:* "OVER THE DESERT SANDS." (For Packages of Cigarettes and Tobacco.) HOMA A. STAGGS, Hearietta, Tex. Filed August 31, 1921.

23,649.—*Title:* "FLOWER DESIGN." (For Hairpin-Boxes.) THE STERLING PIN CO., Derby, Conn. Filed September 12, 1921.

23,650.—*Title:* "SWANEE BACON." (For Packaged Bacon.) JOSEPH STERN & SONS, INC., New York, N. Y. Filed September 12, 1921.

23,651.—*Title:* "WELCHADE." (For Concentrated Grape.) THE WELCH GRAPE JUICE COMPANY, Westfield, N. Y. Filed September 1, 1921.

PRINTS

REGISTERED NOVEMBER 8, 1921.

5,829.—*Title:* "THE DE RIGNE PNEUMATIC PUMP." (For Advertising Purposes for Tire-Pumps.) CHAS. A. DE RIGNE, Los Angeles, Calif. Filed September 15, 1921.

5,830.—*Title:* "NESMOHT OBSTETRICAL TABLE." (For Advertising Purposes for Obstetrical Tables.) JOHN H. THOMSEN, Omaha, Nebr. Filed September 16, 1921.

DECISIONS
OF THE
COMMISSIONER OF PATENTS
AND OF
UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

U. S. District Court—Southern District of New York.

KNEE *v.* KARMIN *et al.*

Decided October 21, 1920.

(274 Fed. Rep., 720.)

PATENTS—1,231,382, FOR FELT WELTS FOR GLOVES, VALID AND INFRINGED.

The Knee patent, No. 1,231,382, for welts for gloves made of felt, and process for making the same, *Held* not invalid for anticipation or prior use and to disclose invention; also infringed.

IN EQUITY. Suit by Louis Knee against Max Karmin and David H. Flamer. Decree for complainant. Decree affirmed, 276 Fed. 724.

Mr. T. F. Bourne for the plaintiff.

Mr. J. G. M. Browne for the defendants.

HAND, *Dis. J.*:

This is the usual suit in equity on a patent to Louis Knee, No. 1,231,382. All five of the claims in the patent are in suit, and infringement is not denied; so that the question depends entirely upon validity.

The object of the patent is to provide felt welts adapted to be sewed in the seams of gloves and other articles of apparel, to be strong and durable, readily manufactured, used, and shipped to manufacturers, and to include certain novel details of improvement and combination of parts which are described in the claims. I need not go into the claims in detail. The first four, which are for the product of the process described in claim 5, are substantially similar in character, and it would serve no purpose to distinguish the slight details of the different elements which they set forth. It is better to describe what the invention is.

At the time the invention was made the patentee supposed that he was the first person who had discovered the use of felt welts in the manufacture of gloves, and in that respect it turned out, after he got into the Patent Office, that he was mistaken, for as early as 1868 there had been an invention of precisely that sort by one Busby, No. 81,855. But it appears from the evidence that Busby's invention never came into active use. In heavy workmen's gloves there were always welts, but until the price of leather, during the Great War, became very high, it was more satisfactory and not too expensive to use leather, instead of felt, and so Busby's invention lay unused and apparently unnoticed. Mr. Knapik, who was well versed in the art, knew nothing of felt welts; so we may safely say that Busby's invention never bore any fruit.

That, I know, makes no difference, because it was there. The patentee was chargeable with it, and he can claim no invention by substituting felt for leather. Therefore his patent must rest (and the Examiner made it rest) upon his manufacture of felt welts upon a single spool. This he did in the following way:

He placed a cardboard core upon the shaft of the well-known Adams machine; to this core he pasted the free end of a roll of felt a yard wide. The Adams machine then wound up the whole roll of felt upon itself; after this the roll was snugly covered with a piece of paper, pasted together so as to give a firm body to the roll. Then a rotary knife was placed upon the periphery of the roll, the roll was rotated in one direction and the knife in the other, and the knife was pressed down until it reached to, but not through, the core. The roll was then moved forward $\frac{1}{4}$ of an inch along the bar, and another slice was made, and so on until there were 40 slices along the whole roll. As in each case the knife did not cut the core, the resulting spool carried a set of 40 convoluted or wound felt strips, $\frac{1}{4}$ of an inch wide, all held upon an uncut cardboard core. This he packed and sent to the trade.

Coming, as it did, at a time when the price of leather was very high, this spool, after a slight hesitation on the part of the trade, met with so much favor that at the present time it has substantially, if not wholly, displaced the use of leather, and will continue to do so until leather becomes much cheaper than it now is. The plaintiff has about 35 per cent. of the trade. Shortly after plaintiff's goods came into the market, there appeared from Gloversville, N. Y., spools of felt welts, of about the same width, wound as any spool is wound, in one continuous strand. This has not successfully competed with the plaintiff's goods, and probably for the reason that it is not as con-

venient as is his, for his welts unroll without any rotation of the spool as a whole, and do not become tangled, as does the Gloversville spool.

The only art cited in the Patent Office, except the patent of Busby, were two other patents—one to Coe, No. 929,537, and one to Smith, No. 1,031,263. Coe's patent was for a roll of metallic leaf, in narrow convolutions, similar in general appearance to the plaintiff's felt welt; but the patentee prescribes that the core shall be cut through. Each of the rolls is therefore a small spool, and as the substance was of a kind which would readily break down, the patentee provided two guards on each side. It is quite clear that he did not think of leaving the core uncut and the metallic leaf all on one large spool.

Smith, who attempted a similar invention for metallic leaf, built up his core in a series of cylinders; but he did not (why, we do not know) cut the leaf when rolled upon the core into slices of the requisite width. Therefore we have, on the one hand, Smith contributing one part of the invention, and Coe contributing the other part, but neither of them combining, even in metallic leaf, the whole invention as the plaintiff combined it. As all three of these patents were cited by the Examiner, I should have to be very clear before I held that there was no invention over them.

There remains, then, the question of the prior art as applied to bindings. The patentee, like many others in New York, had made bindings for various kinds of clothing upon the Adams machine. The general practice was to cut through the core and separate the coils at once. Perhaps it required no invention, once one wanted to use felt welts made upon the Adams machine, to work out the idea of cutting only to the core; on that I need not pass. In any case, it so happens that there is no adequate proof in this case that any one had done it, either in the case of felt or of any other material. There is, to be sure, evidence of such a practice in the case of cambric and cotton bindings; but even in those cases the proof is not sufficient.

The first of these supposed uses is that of the defendant himself, who says that he at several times made up cotton spools on a single core. The only occasion where he specifies the date with any exactness is a sale to a man named Shapiro, in the city of New York, and this date he places in March, 1914, and attempts to corroborate himself by his ledger, which shows an entry of a sale made to Shapiro. This, he says, was made of binding material on a core, which was cut just as the plaintiff's was cut. In the first place, this necessarily rests upon his recollection, for the entry itself does not describe this feature of the article sold, nor indeed does it describe the article in any way at all.

But the date of the entry itself is very doubtful, and really, so far as it is a corroboration at all, depends upon whether you read the page on which it occurs as the first page of the ledger entries against Shapiro, or the second page. The two pages are numbered 88 and 89, and if one supposes that the entries were made in the sequence of the pages there is no reason to assume that the entry was not made in March, 1914. However, at the bottom of page 89 there occurs, apparently in the bookkeeper's handwriting, the words "see page 88," and that to my mind shows that the account was opened on page 89, and, when page 89 was filled, instead of turning over to page 90, the bookkeeper put the rest of the account on page 88. If she had done that, she would make just such an entry at the bottom of page 89 as she did. If one reads it in that sense the sequence of months is entirely consistent, but the year would necessarily be 1916.

The plaintiff's date of invention has been carried back of March, 1916; so it seems to me that the date on which the defendant relied is very far from being proved beyond a reasonable doubt, even if the entry itself was sufficient corroboration, which I do not think it is. So much for the defendant's use.

The only other two uses are of one Kulchinsky and of the plaintiff's own witness, Freydberg. Kulchinsky says he cut binding for sailors' collars in the way in which the plaintiff has done with felt. He places this date in an uncertain way. The first time he testified he said it was six or seven years ago. When he was cross-examined as to the way in which he fixed the date, he said that it was before he had moved from Division street, which was three years ago, and finally in his testimony he said that it was four, five, or six years ago. It is perfectly clear that his recollection was uncertain as to how long before he moved from Division street he did this. The witness, in my judgment, was an exceptionally honest witness; he was telling the truth so far as he could remember it, but he did not remember it accurately enough. Plaintiff's patent has now been dated back to October, 1915, and therefore it must be over five years ago to be a valid anticipation, and it is quite clear that, under the rigid rules which are applicable to proof of anticipation, the defendant cannot succeed. Therefore I do not accept this prior use.

The remaining prior use is of one Freydberg, called by the plaintiff, and, so far as I could see, also an exceptionally reliable witness. He said at a time which he places as eight years ago, although he has no means of fixing it definitely in his mind, that in one stage of the process of making a doubled binder he did not cut through the core. His process was this: On an Adams or similar machine he wound up the fabric, which was a heavy glazed cambric; then he made slices three-eighths of an inch apart, down to the core. He had another machine by which he could fold these three-eighths of an inch slices so as to make three-sixteenths of an inch slices. This second machine he called a gage.

It is quite clear, from his own statement, that this was never an article of manufacture; it was but a step in a process of his own to make something else, and I think it does not come under the requirement of the statute, that the article must be either in public use or offered for sale. Apparently it was done only once in his shop, and, as I have said, as an intermediate step in the manufacture of another article, and it seems to me that it would be improper to say he had anticipated the invention, merely because in one stage of an incompleted process the spools were like the plaintiff's.

Therefore, in the case of all these prior uses, I must find that they are not proved, and the question therefore resolves itself into this: Was it invention on the part of the plaintiff, knowing the method of manufacture of the Adams machine in the case of cottons, cambrics, and so on, to stop the process as usually carried out and to make a new article of commerce? I have already said that, merely as a question of manufacture, once the need was suggested, perhaps that would not be invention; but it seems to me that to make this spool of felt for the purpose of felt gloves, an article which had never been made before, was invention. No one had thought of it. The need was pressing. It leaped at once into very marked approval of the trade, and at least one other manufacture had tried it and had not succeeded.

I do not forget the fact that the general rule is that a mere change in material is not sufficient for a patent; but I must again recur to the fact that the plaintiff not only changed the material, but he made what was in fact novel. Novelty is established; the question is of invention, and that question must depend upon whether the plaintiff, in seeing the opportunity which the high price of leather gave, did not show an ingenuity which justified him in obtaining a patent in the slight modification of the use of the Adams machine, which turned out something never made before, and extremely useful in that particular contingency. I think he did. For that reason it seems to me that I ought not to upset the conclusion of the Examiner that this was a good invention. It may have a very limited life; when the price of leather falls again it may go out altogether, but, in my judgment, it took more than an everyday imagination to perceive the opportunity that the trade offered, and to meet it, as he has alone been able to meet it.

In making his invention he was undoubtedly very happily placed, because he was familiar with the kindred art of rolling of cotton and cambric bindings in a very similar way; but for one reason or another (just what it is impossible now to say) he was the first, and he alone thought of the modification which answered the needs of the moment. That, I think, is sufficient for invention.

Plaintiff may therefore take a decree, with costs, and the decree will be on all claims.

U. S. Circuit Court of Appeals—Second Circuit.

KNEE *v.* KARMIN *et al.*

Decided May 11, 1921.

[274 Fed. Rep., 724.]

APPEAL from the District Court of the United States for the Southern District of New York.

Suit in equity by Louis Knee against Max Karmin and David H. Flanser. Decree for complainant, (274 Fed., 720,) and defendants appeal. Affirmed.

Mr. Barnett E. Kopelman (*Mr. Joseph G. M. Browne* of counsel) for the appellants.

Mr. T. F. Bourne, for the appellee.

Before ROGERS, HOUGH, and MANTON, Circuit Judges.

Per CURIAM:

Decree affirmed.

ADJUDICATED PATENTS.

(U. S. D. C. Md.) The Riley patent, No. 1,152,222, for improvement in underfeed stokers, *Held* valid and infringed. *Sanford Riley Stoker Co.* v. *Frederick Iron & Steel Co.*, 274 Fed. Rep., 864.

(U. S. D. C. Md.) The Taylor patent, No. 778,812, for underfeed stoker, *Held* valid and infringed. *American Engineering Co.* v. *Frederick Engineering Co.*, 274 Fed. Rep., 861.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

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Reissues	7—No.	15,224 to No.	15,230, inclusive.
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Total	1182		

Nolan Act—Reciprocity of the Laws of the French Zone of the Shereefian Empire Recognized.

(ORDER No. 2,708.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., November 4, 1921.

Notice is hereby given that the laws of the French Zone of the Shereefian Empire are recognized as affording to citizens of the United States privileges substantially reciprocal to the privileges accorded by the Nolan Act of March 3, 1921, (41 Stat. L., 1313,) and that consequently all the privileges specified in said act will be extended to its citizens.

THOMAS E. ROBERTSON,
Commissioner.

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., October 31, 1921.

Golden Laxative Coffee Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of Goode & Dunkle, 19 and 21 Pike street, Covington, Ky., and Charles I. Cook, 501 Main street, Menominee, Mich., for registrations of trade-marks and trade-mark registered March 3, 1896, No. 27,803, to Golden Laxative Coffee Co., Ayer, Mass., and a notice of such declaration sent by registered mail to said Golden Laxative Coffee Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Golden Laxative Coffee Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., November 9, 1921.

Adolph Fuchs, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Joseph R. Pellegrino, Massena, N. Y., for patent and patent granted December 18, 1919, No. 1,325,193, to Adolph Fuchs, 238 Holbrook avenue, Detroit, Mich., and a notice of such declaration sent by registered mail to Fuchs at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Adolph Fuchs, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., November 9, 1921.

Russel & Miller Milling Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Edgar O. Challenger, of Produce Exchange, New York, N. Y., for registration of a trade-mark and trade-mark registered December 24, 1895, No. 27,508, to Russel & Miller Milling Co., of Valley City, N. D., and West Superior, Wis., and a notice of such declaration sent by registered mail to said Russel & Miller Milling Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Russel & Miller Milling Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

Full Names of Applicants.

* * * All applications which disclose the full name of the applicant in the preamble of the specification will be received and considered as a sufficient compliance with Rule 40 of the Rules of Practice. (Order 821.)

When the full first name of the applicant does not appear either in his signature or in the preamble to the specification, the Examiner will, in his first official letter, require an amendment supplying the omission, and he will not pass the application to issue until the omission has been supplied, unless an affidavit shall have been filed setting forth that the full first name of the applicant is the one originally given by him. (Order 600.)

Condition of Applications Under Examination at Close of Business November 5, 1921.

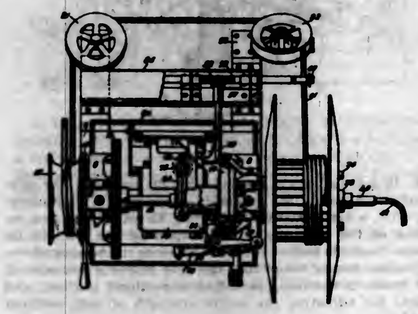
Room No.	Divisions, Examiners, and subjects of inventions. (Oldest new case, Nov. 5; oldest amended, Dec. 24.)	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Sectional Unloaders.	June 10	June 9	778
126	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Preparations; Preserving; Prunes; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Jan. 10	Mar. 26	1,703
175	3. RICH, WM. J., Electric Heating and Electrolysis; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Mar. 2	Dec. 24	856
234	4. MERRITT, A. D., Conveyors; Conveyors, Fluid-Current; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Nov. 27	May 13	1,053
167	5. MACNAB, J. F., Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Jan. 19	Feb. 21	942
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Apr. 8	June 17	944
312	7. JARBOE, C. O., Gearing and Toric Cycles; Photography; Velocipedes.	Mar. 31	June 20	1,909
133	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Stove Furniture; Supports.	July 18	Oct. 6	552
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Dec. 30	July 12	1,071
235	10. MITCHELL, T. H., Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Apr. 16	Aug. 15	1,097
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Buttons, Eyelets, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	July 20	July 27	421
322	12. PIERCE, P. P., Machine Elements.	Apr. 8	Aug. 9	1,096
220	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal-Working; Needle and Pin Making; Turning.	Dec. 4	Sept. 12	1,734
223	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Jan. 19	Aug. 11	851
306	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Nov. 5	Feb. 26	1,777
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony.	Nov. 20	Mar. 1	1,741
307	17. RAFTER, G. S., Casting, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Mar. 8	June 17	1,084
220	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Jan. 8	Mar. 1	1,863
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Dec. 30	Apr. 14	1,011
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Apr. 26	July 1	1,460
212	21. THURBER, W. L., Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Mar. 29	July 1	602
240	22. COLWELL, J. H., Ammunition; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making.	June 6	Aug. 5	526
217	23. GROSSBECK, W. D., Accounting; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Jan. 6	June 27	817
144	24. DARBY, J. J., Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines.	Feb. 19	June 6	1,053
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Aug. 11	Aug. 6	307
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime Mover Dynamo Plants.	Apr. 18	May 19	794
214	27. ANDERSON, L. S., Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus.	Apr. 12	June 27	1,583
225	28. BENSON, A. R., Internal-Combustion Engines.	Jan. 26	May 6	1,560
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Feb. 11	Aug. 1	764
152	30. SULLIVAN, M. R., Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines.	Apr. 12	Sept. 6	1,354
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Dec. 1	Jan. 21	2,007
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange.	Jan. 3	July 28	995
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Rods.	Apr. 11	June 3	727
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	Aug. 13	Sept. 13	311
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Tablet.	Aug. 13	Aug. 30	661
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107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers.	Mar. 1	Mar. 5	1,668
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationary; Stone-Working; Wells.	May 23	May 23	1,199
220	39. COWLES, A. W., Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Nov. 15	Feb. 9	1,997
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Jan. 10	Apr. 4	2,344
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels.	May 23	May 11	850
114	42. CUTTING, H. G., Electrical Conduits and Housings; Electric Signaling; Electric Lamps.	Dec. 7	Jan. 10	1,537
382	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Jan. 18	Feb. 9	1,617
253	44. SHAFFER, C. H., Ash-Guns; Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration Ships.	Jan. 26	Sept. 14	491
379	45. GILES, A. H., Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices.	Apr. 15	June 16	1,175
382	46. WOLCOTT, C. L., Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Apr. 1	May 6	1,169
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid Pressure Brake and Analogous Systems.	Mar. 3	June 3	1,157
118	48. ROEPKE, O B., Electricity, Conductors; Electricity, General Applications.	Jan. 26	Jan. 12	1,986
108	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, JR.			
	Trade-Marks.	Dec. 10	Aug. 1	3,971
	Designs.	Mar. 1	Mar. 17	2,176
	Labels and Prints.	Oct. 28	Oct. 28	978

Total number of applications awaiting action, excluding Trade-Mark division, 57,493; Trade-Mark division, 6,625.

PATENTS

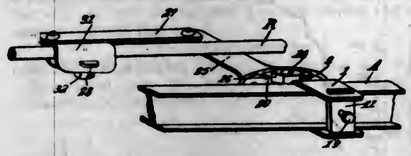
GRANTED NOVEMBER 15, 1921.

1,396,721. CABLE-REELING APPARATUS. GEORGE F. ATWOOD, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 24, 1919. Serial No. 306,462. 2 Claims. (Cl. 254—176.)



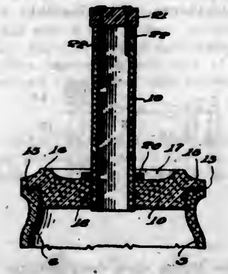
1. In a mechanism for reeling and unreeling a cable, a rotatable shaft, means for rotating said shaft in either direction, a capstan securely fixed at one end of the shaft, a cable reel rotatably mounted at the other end of the shaft, means intermediate said capstan and reel for changing the speed of rotation of the reel with respect to the capstan, and a controlling device operable to control the speed of rotation of said shaft and simultaneously to vary the speed ratio between the shaft and reel.

1,396,722. STEERING ATTACHMENT FOR AUTOMOBILES. EDWARD J. BALMOS, Devine, Tex. Filed Jan. 17, 1918. Serial No. 212,273. 1 Claim. (Cl. 280—89.)



A steering attachment for automobiles, comprising opposed clamping disks having their marginal portions turned toward each other to provide recessed inner faces, friction disks mounted between said clamping disks and surrounded by the marginal portions, dished spring disks mounted on the outer faces of the respective clamping disks and having spaced slots extending thereinto from their peripheries, forming segmental wings, a disk interposed between the friction disks and having segmental wings at its periphery separated by arcuate peripheral recesses, an arm clamped between the clamping disks and having an opening in which the interposed disk is mounted to rotate, there being segmental recesses in the wall of the opening for the reception of these segmental wings, said recesses being slightly longer than the wings to permit a limited relative movement of the arm and interposed disk, a bolt extending through all of the disks and keyed to one of the spring disks, means on the bolt for varying the tension of the spring disks and the frictional engagement between the parts, a link connected to the free end of the arm, means for detachably securing the link to the steering mechanism of a vehicle, and means for detachably securing the clamping disks to a vehicle axle.

1,396,723. JAR AND APPARATUS FOR COLD-PACK METHOD OF CANNING FRUITS AND VEGETABLES. JOHN F. BURNS, St. Louis, Mo. Filed May 26, 1919. Serial No. 299,888. 9 Claims. (Cl. 215—74.)



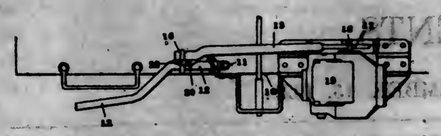
1. In a jar and apparatus for mold pack method of canning fruits and vegetables, the combination of a jar, a cover therefor provided with an opening extending therethrough, a vent tube adapted to be inserted in said opening, a valve carried at the outlet end of said vent tube, and a resilient collar mounted upon said tube to limit its insertion into said openings and form a seal thereby.

1,396,724. EASEL. JAMES A. CAMERON, Chicago, Ill., assignor to Taprell, Loomis & Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 3, 1920. Serial No. 400,967. 3 Claims. (Cl. 40—148.)



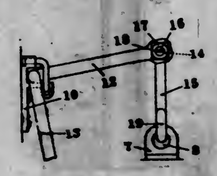
1. In a picture mount or the like, the combination with a backing and lateral flaps adapted to fold into overlapping relationship against the face thereof, or to be swung rearwardly to act as easel supports, of a retaining member extending rearwardly from the backing and provided with shoulders to engage and lock the flaps at their edges, said retaining member being foldable to inoperative position by an endwise bodily movement in the plane of the backing.

1,396,725. COUPLING-RELEASE RIGGING. STERLING H. CAMPBELL, St. Louis, Mo. Filed Apr. 6, 1921. Serial No. 458,889. 10 Claims. (Cl. 213—59.)



1. In a device of the class described, the combination with a car carrying a coupler provided with a locking pin, of a pivot bracket for the operating lever secured to the car, a push down operating lever pivoted on said bracket, an extension engaging with the locking pin, and a separate connecting bracket carried by said operating lever at a spaced distance outside said first named bracket and engaging with said extension to allow the movement of the latter to compensate for the longitudinal movement of the coupler.

1,396,726. COUPLING-RELEASE RIGGING. STERLING H. CAMPBELL, St. Louis, Mo. Filed Apr. 6, 1921. Serial No. 458,890. 3 Claims. (Cl. 213—59.)



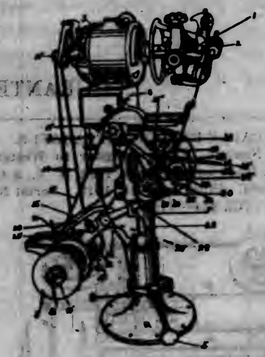
1. In a device of the class described, the combination with a car having a vertical plane coupler head provided with a locking pin, of a rock shaft carrying an integral operating arm provided with a horizontal eye formed in an integral portion of the arm, and a rigid connecting member pivoted in said eye to move only in a vertical plane in the direction of the length of the coupler, said member having an elongated open sided loop engaging with the eye of the coupler locking pin to allow lateral movement of the coupler head.

1,396,727. RUNNING-BOARD SADDLE. GRANT E. CARSON, Albany, N. Y. Filed July 29, 1921. Serial No. 488,268. 20 Claims. (Cl. 105—457.)



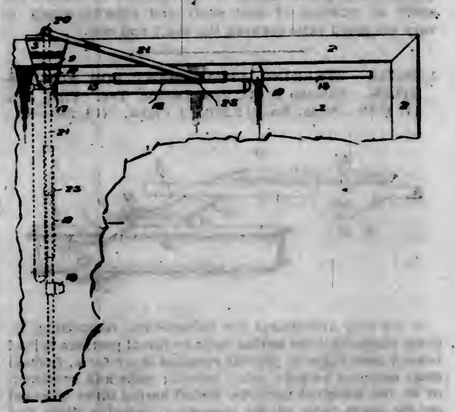
8. A running board saddle comprising a metal saddle member for supporting the running boards, a bearing block supporting the central portion of the saddle member and bearing blocks supporting the end portions of the saddle member, the saddle member having upwardly extending portions at the ends thereof to prevent the running boards from slipping off thereof.

1,396,728. UNREELING AND TENSION DEVICE. PENROSE E. CHAPMAN, St. Louis, Mo. Filed Apr. 24, 1917. Serial No. 164,115. 10 Claims. (Cl. 242—156.)



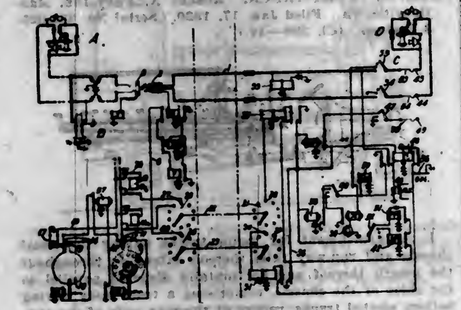
1. In a device of the character herein described, the combination of means for rotatably supporting a reel carrying wire, a brake mechanism acting to retard the free rotation of the reel, means acted upon by the wire in its course from the reel arranged to move as the tension thereon varies, means connecting the said movable means with the brake mechanism, including a resilient portion, and means for adjusting the active strength of said resilient portion.

1,396,729. CLEAR-VISION DEVICE FOR WINDSHIELDS. WILLIAM M. CHRISTOPHER, Tonawanda, N. Y. Filed Nov. 11, 1920. Serial No. 423,206. 7 Claims. (Cl. 15—50.)



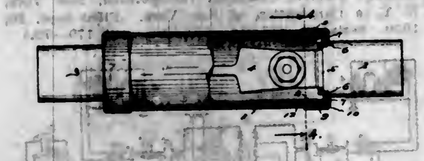
1. In a clear vision device for windshields, the combination with a pivotally mounted reservoir and a wick carried thereby which is fed by the reservoir, of means for attaching the device to a windshield, said reservoir and wick being arranged so that the reservoir will be in non-feeding position when turned one way and in feeding position when turned another way.

1,396,730. TELEPHONE SYSTEM. HENRY P. CLAUSEN, Mount Vernon, and CHARLES L. GOODEUM, New York, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 28, 1918. Serial No. 268,661. 10 Claims. (Cl. 179—27.)



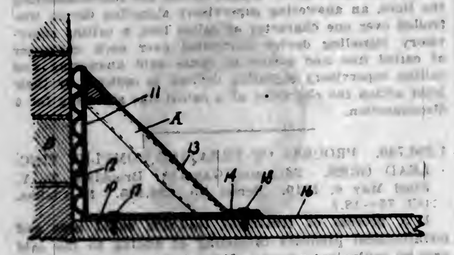
1. In a telephone system, a plurality of trunk lines, a plurality of switches at which each trunk line terminates, a circuit independent of and co-extensive with said trunk lines and means operating in synchronism for controlling any of said switches over said independent circuit.

1,396,731. CARTRIDGE-FUSE. ROBERT C. COLE, Hartford, Conn., assignor to The Johns-Pratt Company, Hartford, Conn., a Corporation of Connecticut. Filed Jan. 24, 1920. Serial No. 353,752. 9 Claims. (Cl. 200—131.)



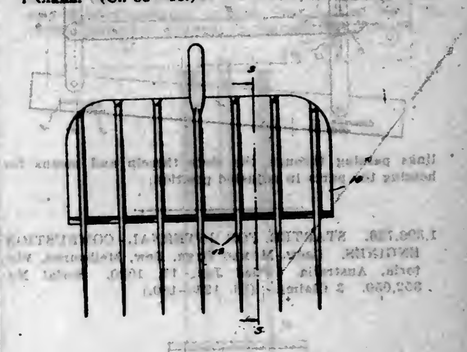
1. A cartridge fuse comprising a tubular insulating casing having undercut mortises in its ends, contact terminals extending through the ends of the casing, a fusible link connecting the terminals within the casing, key plates engaging the terminals and having lugs fitting the mortises in the ends of the casing, and caps thrust upon the ends of the casing over the key plates and held against removal thereby.

1,396,732. FLASHING. LOUIS W. CRAMER, St. Joseph, Mo. Filed July 23, 1920. Serial No. 398,347. 6 Claims. (Cl. 108—26.)



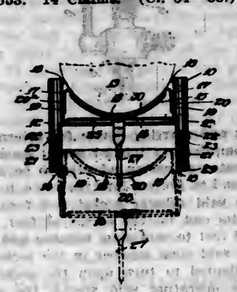
6. A flashing comprising a base, a vertical wall and an inclined wall connecting the base and vertical wall to provide a substantially triangular construction in cross section, and reinforcing elements secured to the inner face of said inclined wall.

1,396,733. CULTIVATOR-HOE. JOHN E. CUMMINGS, Wyoming, R. I. Filed Jan. 18, 1921. Serial No. 438,188. 1 Claim. (Cl. 55—44.)



A tool of the class described comprising a tapering blade provided with a longitudinal cutting edge, a handle secured to the opposite edge of said blade, and a plurality of spaced tines secured to one side of said blade and extending beyond the cutting edge thereof.

1,396,734. JOURNAL-BOX LUBRICATOR. THOMAS W. DEMARREST, Pittsburgh, Pa. Filed Jan. 5, 1920. Serial No. 349,553. 14 Claims. (Cl. 64—35.)

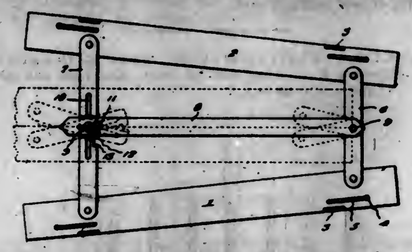


1. A lubricating device comprising, in combination with a casing, of a distributer, a lubricant-supporting follower or riser, and a spring device arranged in said casing outside of the path of movement of said distributer and riser, and adapted to cause said riser to approach said distributer, the body of the spring device being below the riser when the riser is in its uppermost position, and above the riser when the riser is in its lowermost position.

1,396,735. TROUSERS-STRETCHER. ASHTON H. DOYLE, Johnson City, Tenn. Filed Aug. 17, 1920. Serial No. 404,091. 1 Claim. (Cl. 223—19.)

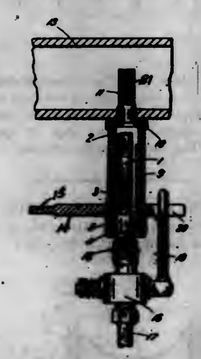
A device of the class described comprising two pairs of clamping plates, means for hinging together the plates of each pair at their outer edges, said plates having holes formed therein adjacent their outer edges, U-shaped springs having their cross pieces engaging said holes, links pivotally connected to said plates, one pair of links

being slotted, an operating bar to which the inner ends of the links are pivoted, the pivot pin for the slotted



links passing through the slots therein and means for holding the parts in adjusted position.

1,396,736. STARTER FOR INTERNAL-COMBUSTION ENGINES. CECIL MUNRO DYER, Kew, Melbourne, Victoria, Australia. Filed Jan. 17, 1920. Serial No. 352,050. 3 Claims. (Cl. 123—180.)



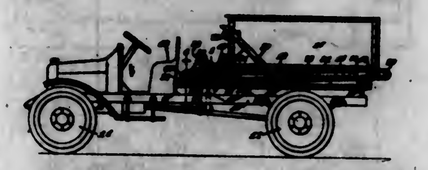
1. A priming and starting device for internal combustion engines, comprising a tubular socket member having a hollow perforated extension adapted to be fitted to an induction pipe and to project into the same, a stem member fitting into said tubular socket and formed with a perforation at its end for the egress of fuel, means for supplying liquid fuel to said stem member and means for rigidly securing said stem member in the socket member, and a sleeve adapted to turn upon the socket member, with means for operating said sleeve, the sleeve and socket member having perforations therein which can be brought into and out of register by such turning movement.

1,396,737. BODY FOR MOTOR-CARS AND OTHER MOTOR AND RAILWAY VEHICLES. ERNEST WILLIAM EDWARDS, Carshalton, England. Filed June 10, 1920. Serial No. 388,007. 3 Claims. (Cl. 296—28.)



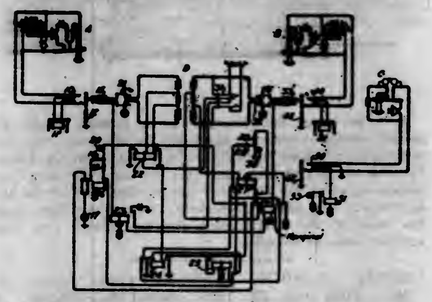
1. A body for motor and other vehicles made in sections, each section having tubes, lugs by which the adjacent ends of the tubes are connected, stay rods in tension by which the lugs are held in position with respect to the tubes, metal panels attached to the sections by bending them around the tubes and pins by which the panels are fixed to the tubes, substantially as set forth.

1,396,738. DUMP-TRUCK. ROBERT A. FONTAINE, Martinsville, Va. Filed Jan. 17, 1920. Serial No. 352,025. 3 Claims. (Cl. 298—14.)



1. An attachment for motor trucks having the usual chassis and run-way rails thereon extending throughout the length thereof and horizontally disposed parallel to the sides of the chassis, comprising a truck body having bottom slotted tracks, rollers at the rear ends of the run-way rails engaged in said slotted tracks, drums rotatably mounted on the chassis adjacent to the seat end thereof, means for operating the drums, a pair of booms pivoted at the axis of the drums and operable outwardly of the sides of the body, and connections between the forward end of the body and the drums whereby the body may be moved on its pivots to a dumping or carrying position and held at any desired inclination.

1,396,739. TELEPHONE-EXCHANGE SYSTEM. CLARENCE B. FOWLER, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 30, 1920. Serial No. 413,834. 5 Claims. (Cl. 179—72.)

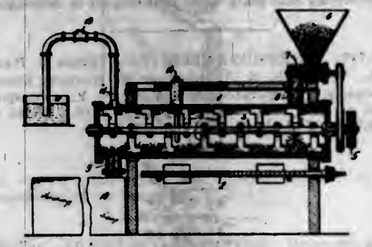


1. In a telephone exchange system, telephone lines of various characteristics, a link circuit for interconnecting the lines, an answering supervisory signaling device controlled over one character of called line, a calling supervisory signaling device controlled over each character of called line and means to cause said answering and calling supervisory signaling devices to indicate by their joint action the character of a called line signaling for a disconnection.

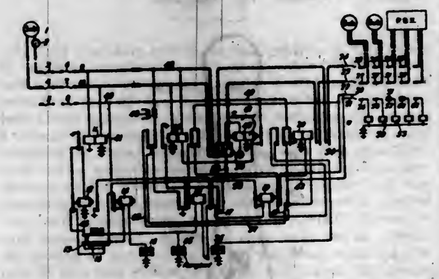
1,396,740. PROCESS OF TREATING COMPLEX ZINC-LEAD ORES. SOLOMON GANELIN, Brooklyn, N. Y. Filed May 6, 1919. Serial No. 295,165. 17 Claims. (Cl. 75—18.)

1. A process of treatment lead-zinc sulfid ores and metallurgical products consisting of adding to the said ores an equivalent amount of metal chlorid corresponding to the sulfid of lead (as well as of any arsenic and antimony which may also be present in the ore) feeding the

said admixture into a closed and continuously operating furnace heating mixing and progressing the said admixture therethrough and leaching out the formed chlorid of lead from the resultant pulverulent product taking precautions to prevent the reaction between the metal sulfids contained in the said product and the said dissolved lead chlorid and recovering the lead in a pure metallic state from the said lead chlorid substantially as described.

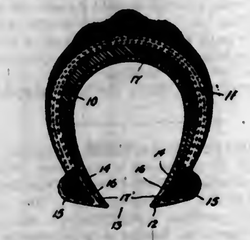


1,396,741. MACHINE-SWITCHING TELEPHONE SYSTEM. CHARLES L. GOODRUM, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 31, 1919. Serial No. 334,701. 8 Claims. (Cl. 179—18.)



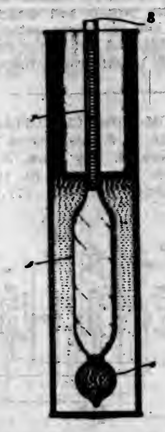
8. In a machine switching telephone system wherein individual trunk lines appear as terminals in the same automatic switch, a number of individual lines, test terminals therefor, a number of trunk lines, test terminals therefor, sleeves mounted on certain of said trunk test terminals, and a controlling switch for said automatic switch adapted to be closed by the sleeves on said test terminals to move said automatic switch over busy trunk lines.

1,396,742. PNEUMATIC TIRE. CLARENCE FREDERICK ARTHUR GRAY, Montreal, Canada. Filed May 12, 1919. Serial No. 296,430. 3 Claims. (Cl. 152—13.)



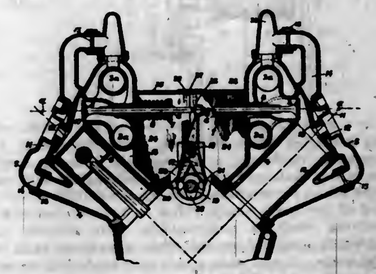
1. A pneumatic tire, comprising an outer casing, an inner casing formed of a plurality of plies of varying lengths, whereby to form tapering ends, and a resilient cushion interposed between the casings and having reduced and tapering ends, the innermost ply of the inner casing and the tapering ends of the cushion terminating at substantially the same point.

1,396,743. MILK AND CREAM TESTING APPARATUS. EUGENE GRAY and JAMES C. BICKLEY, Stoughton, Wis.; said Bickley assignor to said Gray. Filed Nov. 29, 1920. Serial No. 426,894. 1 Claim. (Cl. 265—46.)



An instrument for the testing of the butter fat contents of sweet milk and cream, comprising a hydrometer having a float, a weight at the bottom end thereof, an upstanding hollow neck, and a scale member within said neck, said scale member having marking visible through the neck and including graduations commencing with 1 at the lower end and increasing in value toward the upper end, there being a mark at the position of the indication 31 showing that this is the position assumed by the instrument in pure water of a temperature of 64° Fah. and the instrument being so proportioned that when immersed in milk of no butter fat content and having a temperature of substantially 64° Fah. it will stand with the scale at the zero position, and being so proportioned that when immesed in milk having any proportion of butter fat content and having a temperature of substantially 64° Fah. it will stand with the scale at the position to indicate the correct per cent. of butter fat content, substantially as described.

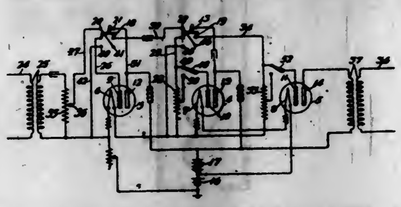
1,396,744. V-TYPE INTERNAL-COMBUSTION ENGINE. SYDNEY SLATER GUY, Compton, near Wolverhampton, England. Filed Feb. 11, 1920. Serial No. 357,952. 3 Claims. (Cl. 123—55.)



1. In an internal combustion engine, a crank case, valve rockers pivoted centrally thereon, a cam shaft for

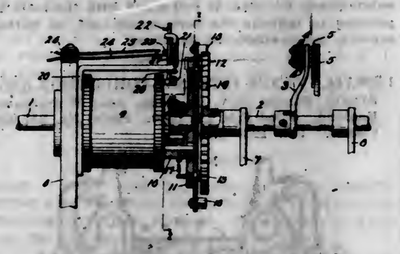
operating said rockers, two oppositely and outwardly inclined series of water jacketed cylinders mounted on said crank case and having integrally formed inlet and exhaust manifolds, valves in said cylinders arranged at an angle to the axes thereof and having their stems passing inwardly between said inlet and exhaust manifolds and adapted for operation by said rockers, hollow water cooled detachable cylinder heads mounted obliquely at the outside of said cylinders, a water outlet pipe at the top of each series of said cylinders, outside water connections between the cylinder jackets and detachable heads and between the latter and the water outlet pipes, said connections being divided, and means for elastically connecting the divided ends of said connections.

1,396,745. VACUUM-TUBE CIRCUITS. ARTHUR HADDOCK, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 19, 1919. Serial No. 298,069. 11 Claims. (Cl. 179—171.)



1. A vacuum tube system comprising an incoming line, an outgoing line, a plurality of vacuum tubes therebetween, each having an input circuit and an output circuit, switching means for varying the number of effective tubes between said lines, and switching means for varying the connection of the input circuit of one tube with the output circuit of the preceding tube.

1,396,746. TELEGRAPH SYSTEM. CARL HALTER, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 22, 1917. Serial No. 208,472. 5 Claims. (Cl. 178—53.)



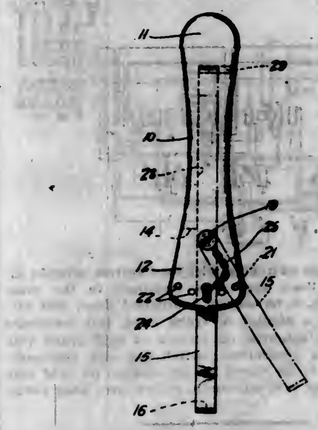
1. In a telegraph system, a correcting mechanism comprising a driving shaft, a driven shaft adjacent to and in alinement therewith, a commutator, a brush carried by the driven shaft and adapted to bear against said commutator with a predetermined pressure, a ratchet wheel on the end of the driven shaft, a disk on the adjacent end of the driving shaft, a reciprocating plate slidably and diametrically mounted on said disk, a pawl at each end of said plate, one of said pawls being adapted to normally engage said ratchet wheel, an armature carried by said plate, a tubular magnet surrounding said driving shaft and adapted to attract said armature to momentarily disconnect the pawls from the ratchet wheel and permit an angular retardation of the driven shaft with respect to the driving shaft, means for energizing said magnet, means for deenergizing said magnet, and means for retracting said plate when said magnet is deenergized.

1,396,747. TELEPHONE-RECEIVER. HENRY C. HARRISON, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 10, 1918. Serial No. 253,356. 7 Claims. (Cl. 179—119.)



1. In a telephone receiver, a magnetic diaphragm, a set of three pole pieces oppositely disposed on either side of the diaphragm, means for giving opposing pole pieces constant opposite polarities, and additional means for giving opposing pole pieces variable like polarities.

1,396,748. SCREWDRIVER. EDWARD A. HEINTEMAN, Hoboken, N. J. Filed Aug. 30, 1920. Serial No. 406,848. 2 Claims. (Cl. 145—50.)

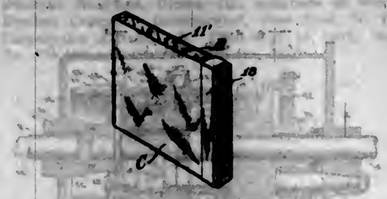


2. A screw-driver comprising a solid handle having a broadened bifurcated end containing a pivot screw and a plurality of spaced openings arranged concentric with said screw, a blade pivoted in said handle on said screw, said blade having an opening registerable with any of the openings in said handle, means passing through said openings for holding said blade in adjustment, means preventing loss of said holding means, and means in said handle permitting folding the blade therein.

1,396,749. CIGARETTE-PACKAGE. GEORGE W. HILL, New York, N. Y., assignor to American Tobacco Company, a Corporation of New Jersey. Filed Aug. 4, 1916. Serial No. 113,091. 4 Claims. (Cl. 206—41.)

1. A cigarette package comprising an inner casing of relatively stiff material having a permanently open end and in which the cigarettes are initially packed, an intermediate wrapper sheet of relatively flexible material completely enveloping the inner cigarette-containing casing,

and an outer flexible pouch-like cover receiving the wrapper casing, said pouch-like cover also having a permanently



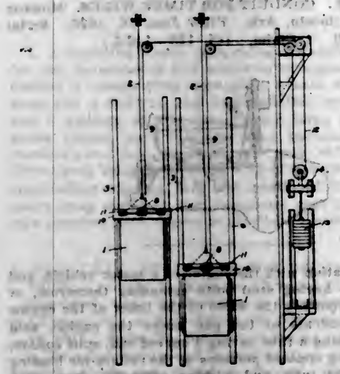
open end through which the adjacent portion of the wrapper casing is exposed.

1,396,750. SIGNALING-GENERATOR. OWEN E. HILL, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 4, 1916. Serial No. 134,914. 3 Claims. (Cl. 179—81.)



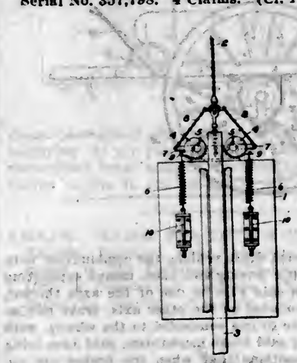
1. In a signaling system, in combination, a line, means to impress signaling current from other stations upon said line and a station set associated with said line comprising a transformer having a plurality of windings inductively associated, a line circuit including one of said windings, a second circuit including another of said windings, a signal associated with said line circuit responsive to signaling currents from other stations irrespective of the condition of said second circuit and also independently responsive to signaling current derived from said transformer, a source of electric current in said second circuit, means to close said second circuit, the closing of said second circuit inducing signaling current in said first circuit to operate said signal, and means controlled by operation of said signal to interrupt said second circuit.

1,396,751. SAFETY MECHANISM FOR ELEVATORS. JOHN HOFFER, Marianna, Pa. Filed Jan. 10, 1920. Serial No. 350,558. 1 Claim. (Cl. 187—71.)



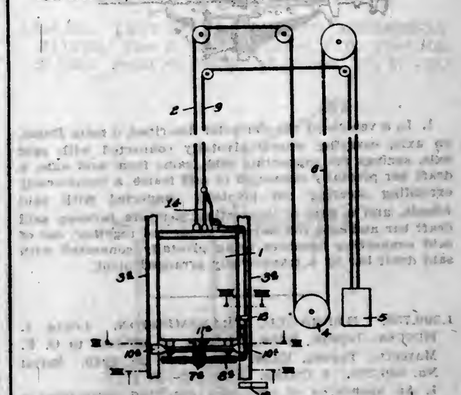
In a safety device for elevator cars and cages the combination of two cars hung in counterbalance, a safety cable extending from car to car and hanging intermediate its length in a loop susceptible to elongation and shortening, a tension-operated safety mechanism borne by one of said cars, to which safety mechanism said safety cable is connected, means rendered ineffective under major stress, relieving said safety mechanism under normal conditions of the weight of said looped safety cable, and a stop limiting the extent to which the loop in said safety cable may shorten, substantially as described.

1,396,752. SAFETY DEVICE FOR ELEVATOR-CAGES. JOHN HOFFER, Marianna, Pa. Filed Feb. 11, 1920. Serial No. 357,798. 4 Claims. (Cl. 187—87.)



1. In a safety device for elevator cages, the combination, with a car mounted in a runway and a post arranged adjacent the runway, of a post-engaging member borne by the car and movable to and from post-engaging position, the said member including two post-engaging cams turning in unison upon a common axis, the said cams being of unequal radii and the cam of larger radius being tined substantially as described.

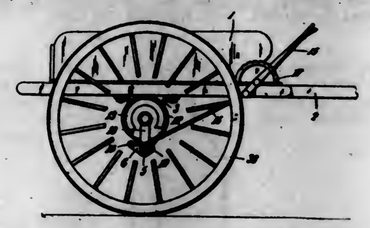
1,396,753. SAFETY DEVICE FOR ELEVATOR-CARS. JOHN HOFFER, Marianna, Pa. Filed Mar. 8, 1920. Serial No. 364,055. 4 Claims. (Cl. 187—86.)



1. In an elevator installation the combination of a car, a car-operating drum, a car-sustaining cable connecting car and drum, a counterweight exerting upon said drum a torque opposite in direction to that exerted thereon by said car, a second drum borne by said car, a normally slack

cable connecting said counterweight and said second drum, a safety device borne by said car, and operative connection between the aforesaid second drum and said safety device, substantially as described.

1,396,754. TWO-WHEELED DRAFT-VEHICLE. CHARLES HOSKING, Belgravia, Johannesburg, South Africa. Filed Jan. 26, 1920. Serial No. 354,236. 5 Claims. (Cl. 188—1.)



1. In a two-wheeled draft vehicle, the combination with the vehicle of an axle having two axes, means supporting the vehicle body on said axle by one of the axes thereof, wheels revolubly mounted on the other axis, brake mechanism including brake drums connected to the wheels, with means for operating said brake mechanism, said axes being in such relative positions that when the brakes are applied the axle tends to turn and to lift the vehicle body with it.

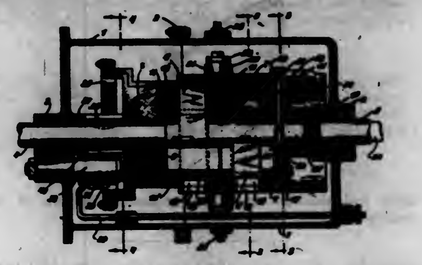
1,396,755. STEERING DEVICE. WARREN R. HUDSON, Troy, Ohio, assignor to The Troy Wagon Works Company, Troy, Ohio, a Corporation of Ohio. Filed Jan. 26, 1917. Serial No. 144,674. 9 Claims. (Cl. 280—93.5.)



1. In a vehicle of the character described, a main frame, an axle, carrying wheels pivotally connected with said axle, springs for supporting said frame from said axle, a draft bar pivotally connected to said frame, a transversely extending steering rod pivotally connected with said wheels, and a pair of connecting members between said draft bar and said rod swivelly connected together, one of said connecting members being pivotally connected with said draft bar by a transversely arranged pivot.

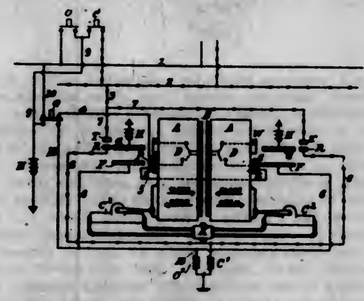
1,396,756. HYDRAULIC TRANSMISSION. LOUIS J. HUGUNS, Topeka, Kans., assignor of one-half to O. F. Marcotte, Topeka, Kans. Filed Dec. 20, 1919. Serial No. 346,255. 8 Claims. (Cl. 192—57.)

1. An apparatus of the class described comprising a driving shaft, an abutment thereon, a driven shaft, a cylinder thereon receiving said abutment, a casing surrounding said parts and adapted to contain fluid, inlet and outlet ports in the cylinder for permitting the fluid to pass thereinto, means for controlling said outlet ports and an eccentrically arranged hollow member within the cylinder and surrounding a part of the driving shaft and movable with the abutment and acting with the abutment to divide



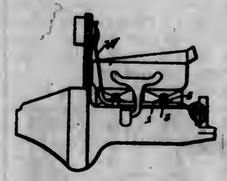
the cylinder into two parts during a part of the rotation of the abutment.

1,396,757. DOOR-CONTROL SYSTEM. LEE P. HYNES, Albany, N. Y., assignor to Consolidated Car-Heating Company, Albany, N. Y., a Corporation of West Virginia. Filed Apr. 16, 1920. Serial No. 374,322. 10 Claims. (Cl. 268—7.)



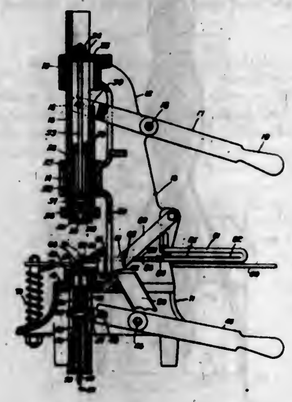
1. The combination with a pair of doors having a common control magnet, of a yielding shoe for each door, separate branch circuits from said magnet, and switches connected to the two door shoes and independently controlling said circuits.

1,396,758. CONDUIT FOR TIMER-WIRES. MONROE JACKSON, Lincoln, Ark. Filed June 16, 1920. Serial No. 389,410. 1 Claim. (Cl. 123—146.5.)



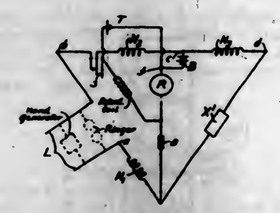
The combination with the engine of a motor vehicle, and a valve plate having stud bolts extending therefrom, of means for supporting the wires of the timer of the engine out of the contents of the pan under the engine, said means comprising a tube having a curved end, split collars, means engaging opposed portions of the collars for binding them upon the tube, and a wing extending from each collar and having an aperture for the reception of one of the stud bolts.

1,396,759. MANUFACTURE OF INSULATING SUPPORTING-BLOCKS. ANNIE G. JILLARD, Berwyn, and STANLEY BRACKEN, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 18, 1919. Serial No. 324,489. 13 Claims. (Cl. 49—35.)



1. The method of forming supporting blocks of the class described, which consists in preparing the ends of the wires with anchorage portions and molding a glass block around the ends of the wires so prepared.

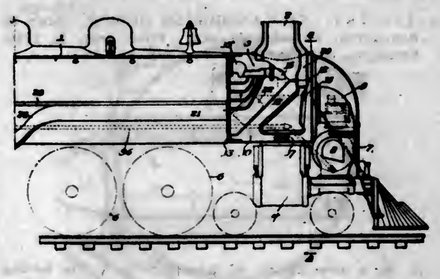
1,396,760. SIGNALING-CIRCUIT. KENNETH S. JOHNSON, Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 4, 1918. Serial No. 210,265. 29 Claims. (Cl. 179—81.)



1. A signaling circuit comprising a transformer, a path for the transmission and reception of signals, a path including a transmitting apparatus, a path of high resistance, and a receiver, said first and last mentioned paths and a winding of said transformer being included in a series circuit, said receiver being included in a path shunted about said high resistance path, said second mentioned path being included in a circuit shunted about said transformer winding, said last mentioned circuit, said receiver path and said high resistance path having a common terminal with respect to alternating signaling current.

1,396,761. APPARATUS FOR USING POWDERED FUEL. ALONZO G. KINYON, Chicago, Ill., assignor to Powdered Coal Engineering & Equipment Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 11, 1917. Serial No. 206,639. 7 Claims. (Cl. 110—57.)

1. In a locomotive and in combination with the boiler, fire-box, stack and cylinders thereof, means for preheating the air for combustion in the firebox, comprising an air-heating chamber, a radiator therein having steam and air passages, connections between the cylinders and the steam passages of the radiator for supplying the latter with steam, a steam nozzle so related to the stack as to increase the draft therein, a connection from the



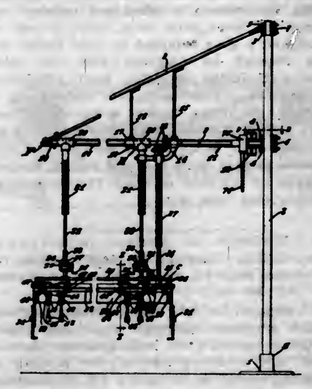
steam passages of the radiator to the nozzle, means for supplying the air passages of the radiator with air, and connections from said air chamber for utilizing the air heated therein in the fire-box.

1,396,762. ROTOR FOR CUTTER-HEADS. GEORGE L. KRABBE, Portland, Oreg., assignor, by mesne assignments, to The Turbine Air Tool Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 27, 1918. Serial No. 264,385. 3 Claims. (Cl. 253—2.)



1. In a portable fluid driven tool of the character described designed to be manually applied to the work, a rotor made of a light metal thereby adapting the rotor to greater acceleration relatively to a given unit of driving force, and rendering its gyroscopic action a negligible factor.

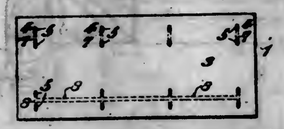
1,396,763. DEVICE FOR GRINDING AUTOMOBILE-VALVES. FRED B. KRALING, Lisbon, N. D. Filed Mar. 8, 1921. Serial No. 450,587. 5 Claims. (Cl. 51—29.)



1. In a valve grinding device, a carrier; a rotatable tool holder shiftable on the carrier; means for rotating

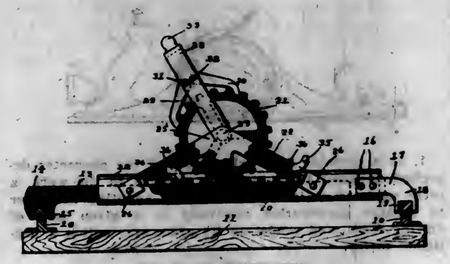
the holder; means for raising and lowering the carrier; and means for mounting the carrier for movement in an orbit about an approximately vertical axis.

1,396,764. TILE-ANCHORING DEVICE. JOHN B. LANCASTER, Philadelphia, Pa. Filed Sept. 3, 1919. Serial No. 321,300. 3 Claims. (Cl. 72—20.)



1. As a new article of manufacture, a tile having cast in the body thereof a plurality of projecting anchoring devices, each comprising a single longitudinal member embedded in said body, two limbs angularly disposed with reference to said longitudinal member and having their outer portions projecting from said body, and two terminals outwardly deflected from said limbs.

1,396,765. TRACK-LAYER. JOHN LOPITSKY, Livingston, W. Va. Filed Mar. 13, 1920. Serial No. 365,584. 1 Claim. (Cl. 254—43.)



A track rail setting device comprising a horizontally disposed hollow bar, a second bar slidable therein, said bars having transversely notched end members adapted to grip over the track rails, rack teeth formed on said second bar, and a gear mounted on said hollow bar and projecting through an aperture with the said rack teeth, and a U-shaped operating lever straddling said gear and pivoted concentric thereto and having a pair of oppositely projecting pawls mounted thereon and adapted to engage the said gear whereby the lever may rotate the said gear in opposite directions, and a pair of locking pawls pivoted upon the said hollow bar adjacent opposite ends of the said aperture therein and adapted to engage the said rack teeth.

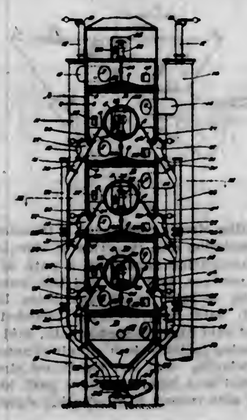
1,396,766. DOLL. BERTHA M. MCCLELLAND, Walton, N. Y. Filed July 11, 1919. Serial No. 310,145. 1 Claim. (Cl. 46—40.)

A doll composed of two body members arranged in longitudinal alinement integral with each other, said members being composed of a stuffed casing, the connected portion of said members having the stuffing omitted and the casing connected to form a flexible bending waist line, a head at the free end of each body member, each body member having a dress waist with a skirt portion forming a continuation thereof, said skirt portions being arranged one within the other and secured together at



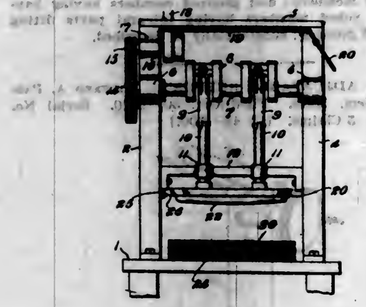
their upper and lower ends forming a double facing reversible skirt, one face of which is exposed when one body member is in view and the other exposed when the other body member is in view.

1,396,767. DRY GAS-CLEANER. FRANK R. MCGEE and GEORGE W. VERELAND, Steubenville, Ohio. Filed June 22, 1921. Serial No. 479,514. 8 Claims. (Cl. 183—34.)



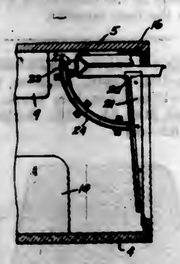
1. A dry gas cleaner arranged in tower formation comprising cylindrical side walls, top and bottom walls, a plurality of transversely arranged walls within said cylindrical side walls forming a plurality of individual cleaning chambers, said last named walls forming the top of one chamber and the bottom of the next chamber, a cylindrical housing supported by and forming a part of said walls, said housings having their ends abutting and opening through the side walls of said cleaner, a cleaning mat arranged to transversely divide each of said cleaning chambers, said mat being adapted to filter the dust from gases passing therethrough, an inlet port in each chamber below said mat, an outlet port in each chamber above said mat, and vibrating mechanism in said cylindrical housings adapted to vibrate and clean said mats.

1,396,768. METAL-SHEET-PACK-OPENING DEVICE. DANIEL L. MAINERI, Canton, Ohio, assignor, by mesne assignments, to United Alloy Steel Corporation, Canton, Ohio, a Corporation of New York. Filed Dec. 16, 1920. Serial No. 431,226. 6 Claims. (Cl. 271—18.)



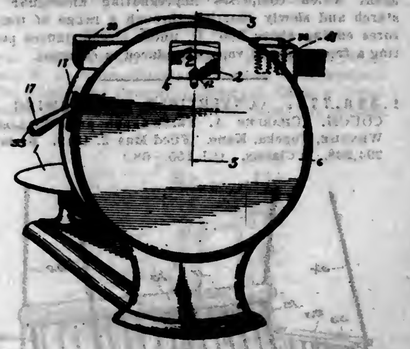
1. In a device of the character described, an upper die flattened upon its forward corners and a lower die flattened upon its forward corners and arranged in vertical alinement with said upper die.

1,396,769. FOLDING-DOOR STRUCTURE. GEORGE E. MATHER, Morsemere, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 6, 1919. Serial No. 322,131. 3 Claims. (Cl. 20—20.)



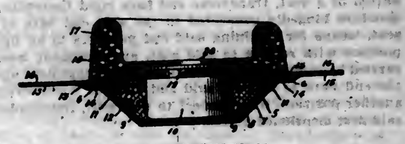
1. A folding door structure comprising a hingedly supported inner door section, an outer door section, an intermediate door section, hinge mechanisms connecting the intermediate door section with the inner and outer door sections, all three of said door sections being beveled toward the hinged pintles, guiding means for directing the folding movement of the outer door section, and guiding means for holding the intermediate door section substantially parallel to the doorway during the movement of the door sections.

1,396,770. METHOD AND APPARATUS FOR MAKING PHOTOGRAPHIC RECORDS. CHARLES E. K. MEES, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed June 14, 1919. Serial No. 304,300. 16 Claims. (Cl. 95—5.)



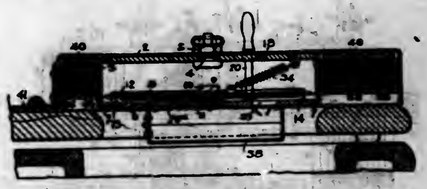
1. The method of making a photographic record which consists in moistening a surface which is visibly affected by light only when damp, submitting such moistened surface to the action of light and drying said surface.

1,396,771. RECEIVER-SHIELD. JOHN P. MINTON, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 27, 1918. Serial No. 224,968. 5 Claims. (Cl. 179—182.)



1. In combination with a telephone receiver, means for preventing external vibrations from reaching the receiver casing, said means including a shield of metal foil.

1,396,772. VENDING-MACHINE. DANIEL A. MOSITZ and WILLIAM J. PETERSON, McKeesport, Pa. Filed Apr. 15, 1921. Serial No. 461,494. 6 Claims. (Cl. 211—8.)

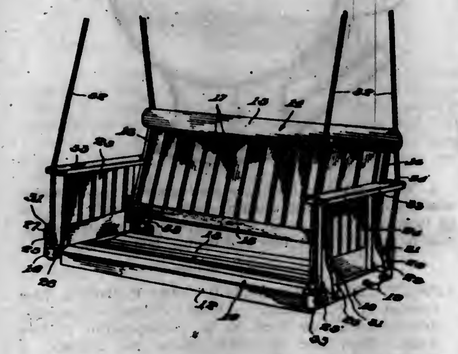


1. In a vending machine, the combination of an oval shaped casing, a like shaped frame in said casing, the walls of said casing and said frame forming a receptacle for a pack of sheets of paper, a rotary circular plate mounted on said frame overlapping said sheets in said receptacle at opposite points, sheets separating members carried by said plate, and coin controlled mechanism for releasing said rotary plate, whereby when said plate is rotated a sheet is separated from the pack and discharged from said receptacle.

1,396,773. PROCESS OF MAKING A PURIFYING AGENT. RUSSELL WILLIAM MUMFORD, New York, N. Y., assignor, by mesne assignments, to Darco Corporation, Wilmington, Del., a Corporation of Delaware. Filed Apr. 9, 1918. Serial No. 227,544. 6 Claims. (Cl. 127—2.)

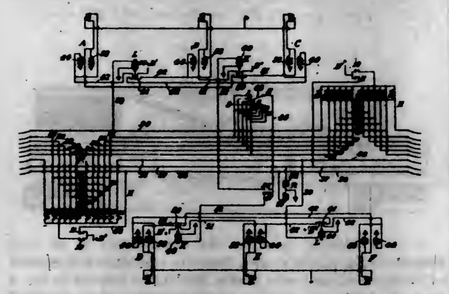
1. The process of making a clarifying and decolorizing agent which comprises impregnating kieselguhr with starch and slowly charring through a range of temperatures ending above 600° C. under circumstances permitting a free escape of vapors produced in charring.

1,396,774. CONVERTIBLE PORCH-SWING AND COUCH. CHARLES A. NEISWENDER and WILLIAM C. WENTHE, Topeka, Kans. Filed May 2, 1919. Serial No. 294,208. 9 Claims. (Cl. 155—68.)



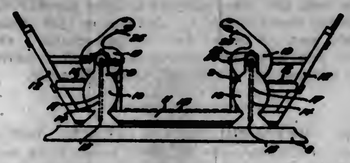
1. In a convertible porch swing and couch, the combination of a seat, transverse end bars rigid therewith, end members hingedly connected to the said end bars of said seat, means for retaining said end members in an upright position with respect to said seat, and abutment members carried by said hinged end members for engagement against the end bars to support said end member when swung to another position, with respect to said seat, independent of said first mentioned means.

1,396,775. TRAIN-LINE SYSTEM FOR CAR-DOORS. GEORGE E. OAKLEY, Albany, N. Y., assignor to Consolidated Car-Heating Company, Albany, N. Y., a Corporation of West Virginia. Filed Mar. 19, 1920. Serial No. 367,281. 11 Claims. (Cl. 268—7.)



1. A train door-operating system comprising a plurality of train-wires, door-operating circuits on each car controlled by one of the respective train-wires, and switches for the several train-wires grouped at a common station, whereby the doors on individual cars of the train may be separately operated from said station through the respective train-wires.

1,396,776. SWING. HERMAN OELBE, Philadelphia, Pa. Filed Nov. 10, 1920. Serial No. 425,239. 3 Claims. (Cl. 155—68.)



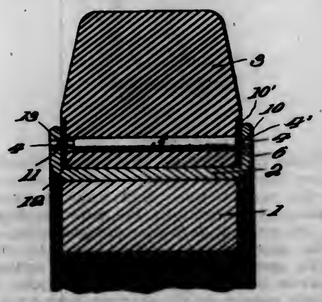
1. A swing including a base having laterally disposed pairs of standards; yoked suspension members having angularly extending trunnions rotatably mounted adjacent the tops of said standards; a swinging frame supported by said yoked members; and grooved members having handles, said yoked members having integral parts fitting within said grooves; substantially as described.

1,396,777. ADJUSTABLE SUPPORT. WILFRED A. PARENT, Salem, Mass. Filed Oct. 30, 1920. Serial No. 420,797. 5 Claims. (Cl. 45—100.)



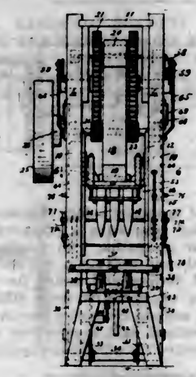
3. An adjustable support comprising a tubular base member having an elongated opening formed therein, a spacer block received within the base member, a flat supporting arm engaging with the spacer block, and a threaded clamping stud extending through the opening in the base member transversely of the supporting arm and adapted to clamp the arm to the base member.

1,396,778. VEHICLE-TIRE FASTENER. WILLIAM H. PARHAM, Knoxville, Tenn., assignor to Parham Auto Patents Corporation, Knoxville, Tenn., a Corporation of Delaware. Filed May 21, 1920. Serial No. 383,122. 8 Claims. (Cl. 152—6.)



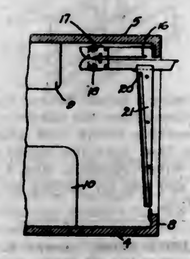
5. In a tire fastener, the combination with a channel rim having annular grooves formed in the walls of the channel, of a resilient tire arranged within said rim, a plurality of sectional cross bars embodied within said tire, each of said sectional cross bars comprising a tubular section and an inner section slidably mounted together having means for limiting the movement of the sections with respect to one another, a coil spring for holding said sections extended, said inner section having a flange adapted to receive an instrument for moving said sections in respect to one another.

1,396,779. CONCRETE-BLOCK-MOLDING MACHINE. ALVAN L. POST and HARRY E. POST, Kent, Ohio. Filed May 17, 1920. Serial No. 382,042. 15 Claims. (Cl. 25—102.)



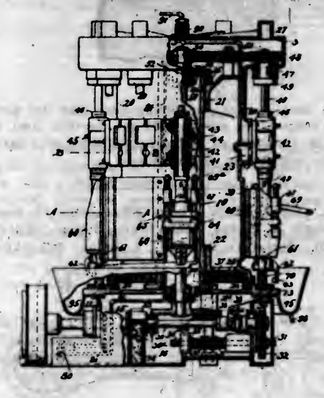
1. In a block molding machine, a frame, a flask adapted to receive material to be molded into block form, means for compressing material in the flask comprising a plunger, a plurality of tapered cores which are actuated by the plunger and on the compressing stroke thereof enter one side of the flask and pass through the material and through the opposite side of the flask so as to form openings in the block being molded and to compress the material internally thereof, and a stripper plate which during the compression stroke of the plunger enters one side of the flask and compresses the material externally.

1,396,780. FOLDING-DOOR STRUCTURE. HARRY W. PUGH, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 6, 1919. Serial No. 322,153. 1 Claim. (Cl. 20—20.)



A folding door structure comprising a hingedly supported inner door section, an outer door section, an intermediate door section, hinge mechanisms connecting the intermediate door section with the inner and outer door sections, guiding means for directing the folding movement of the outer door section, and intermeshing gears carried by the inner and outer door sections whereby the intermediate door section is maintained substantially parallel to the doorway during the movement of the door.

1,396,781. MULTIPLE-SPINDLE MACHINE-TOOL. GEORGE E. RANDLES, Cleveland Heights, Ohio, assignor to The Foote-Burt Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 2, 1918. Serial No. 232,009. 3 Claims. (Cl. 77—22.)



1. In a machine tool, the combination of a drum which is rotatable upon a vertical axis and has at its upper end a hollow overhanging oil chamber, a central hollow column around which said drum rotates, a vertical shaft which extends through said column and into said oil chamber,, a plurality of vertical spindles rotatably mounted on said drum and projecting into said oil chamber, trains of gears in said oil chamber intermediate of said shaft and the several spindles, and means to supply oil to said oil chamber.

1,396,782. THERMOSTAT FOR RADIATORS. ALBERT D. RAY, Cleveland, Ohio, assignor to William O. Jackson, New Castle, Ky. Filed Mar. 10, 1920. Serial No. 364,860. 3 Claims. (Cl. 73—118.)



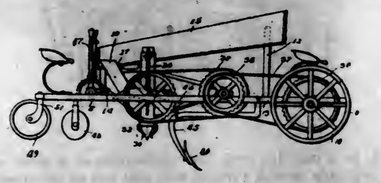
1. An attachment for radiators, comprising a flexible thermo-member and a rotatable disk indicator in gear connection and a supplemental spiral spring coacting with said parts to rotate said indicator, and a chambered body for said parts adapted to be connected with an automobile radiator.

1,396,783. SHOE AND METHOD OF MAKING THE SAME. Edward R. Ruthrauff, St. Louis, Mo. Filed Nov. 17, 1917. Serial No. 202,634. 11 Claims. (Cl. 36—34.)



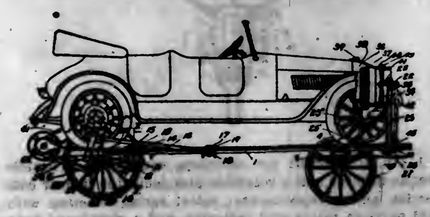
1. In a shoe, a heel comprising base and top sections, fasteners adapted to secure said top section, and means arranged in the path of and penetrable by said fasteners adapted to deflect the points thereof.

1,396,784. SEED-BEET PLANTER. John D. Samuels and Harry E. Bates, Idaho Falls, Idaho. Filed Feb. 24, 1920. Serial No. 360,589. 1 Claim. (Cl. 111—89.)



In a seed beet planting machine, an inclined beet trough supported by the frame, a delivering tube in communication with the beet trough at the lower extremity thereof, a plunger tube in communication with the delivering tube, a plunger operating in the plunger tube, guide rods having connections with the plunger at the upper end thereof, guideways on the plunger tube adjacent to the upper end thereof, guideways on the plunger tube at a point intermediate its ends, lugs carried by the rods, said lugs supporting rollers, coiled-springs positioned on the rods between the lugs and guideways at the upper end of the tube, and relatively small coiled spring members disposed between the lugs and guideways supported intermediate the ends of the plunger tube, and means for moving the plunger in one direction.

1,396,785. COOLING MEANS FOR MOTOR-VEHICLE ENGINES. George L. Schofield, Kansas City, Mo. Original application filed July 1, 1918, Serial No. 242,911. Divided and this application filed May 17, 1920. Serial No. 382,127. 12 Claims. (Cl. 180—1.)



1. The combination with a tractor frame having a bull wheel and a motor vehicle supported on said frame and in driving connection with the bull wheel, of a longitudinal shaft extending from the rear of the vehicle to the front portion thereof, driving means between the shaft and the bull wheel, an air impeller frame carried by the front portion of the tractor frame, air impeller operating mechanism supported by said frame and in driving connection with the longitudinal shaft, and means for longitudinally adjusting the air impeller frame with respect to said shaft.

1,396,786. SYSTEM FOR TRANSMISSION OF INTELLIGENCE. Edward O. Scriven, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 6, 1916. Serial No. 129,728. 21 Claims. (Cl. 179—171.)



21. The method of operating a high frequency alternating current generator comprising a plurality of electric discharge devices for generating high frequency current, each having an anode and a cathode, a work circuit connected to both said devices, and means for supplying a modulating signaling electromotive force differentially to said devices, which method comprises preventing flow of high frequency currents in said work circuit except when modulating electromotive force is being supplied.

1,396,787. FLAGMAN'S OUTFIT. Charles C. Shepard, Byer, Ohio. Filed Apr. 18, 1921. Serial No. 462,472. 3 Claims. (Cl. 116—173.)



1. A flag comprising a handle having a spiral groove, a sleeve slidably mounted upon the handle, a pin carried by the sleeve and movable within said groove, means for holding the sleeve fixed upon the handle at the limit of its movement in either direction, and a connection between the sleeve and flag for holding the latter taut in its extended position.

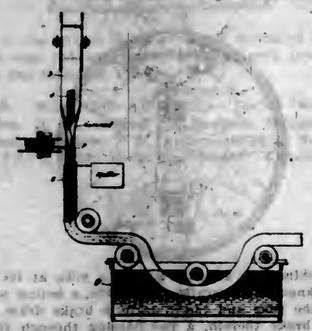
1,396,788. ARCHER'S BOW. Abner E. Shepherdson, Melrose, Mass. Filed May 9, 1918. Serial No. 233,428. 4 Claims. (Cl. 124—7.)

3. In an archer's bow, the combination with a rigid, tubular handle portion, of two wooden limbs, each having at its inner end a metal ferrule which fits tightly into the tubular handle, each ferrule having a length slightly greater than one-half the length of the handle whereby the two ferrules project slightly beyond the ends of the



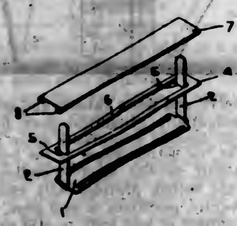
handle, and a band encircling the projecting end of each ferrule and the portion of the limb immediately adjacent said end, said band forming between itself and the end of the handle an arrow-guiding groove.

1,396,789. ELECTRIC CONDUIT AND PROCESS OF MAKING THE SAME. Henry M. Shorr, Penn Yan, N. Y., assignor to Shorr Electrical Mfg. Corp., Penn Yan, N. Y., a Corporation of New York. Filed Feb. 24, 1920. Serial No. 360,565. 9 Claims. (Cl. 154—8.)



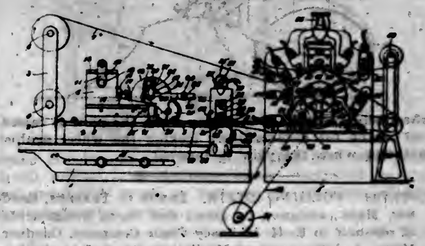
6. The process of forming a flexible non-metallic conduit which comprises forming an inner smooth fabric lining, winding thereon a cord and simultaneously therewith causing said cord to adhere to the outer surface of said lining and then forming a knitted fabric covering around said cord and then immersing said tube in a suitable impregnating compound.

1,396,790. PAPER-FASTENER. Frederick W. Shute, Amesbury, Mass. Filed Mar. 24, 1920. Serial No. 368,342. 1 Claim. (Cl. 24—67.)



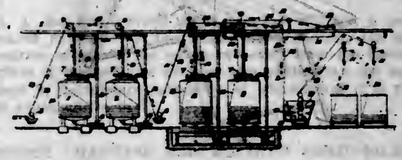
A paper fastening comprising a body having integral therewith two arms extending laterally therefrom and adapted to be inserted through the papers to be fastened together, a retaining member having apertures through which the projecting ends of said arms extend, said arms being constructed to be bent over against the retaining member and the latter having the portion between the apertures offset below the body of the fastener thereby to provide a depression to receive the bent over ends of the arms and also spacing the edges of the retaining member from the papers, and a keeper in the form of a plate having its edges bent over to form lips and adapted to embrace the retaining member.

1,396,791. MACHINE FOR COLORING MOTION-PICTURE FILMS. Gottlieb Tauszig, New York, N. Y. Filed Sept. 4, 1919. Serial No. 321,700. 16 Claims. (Cl. 101—141.)



1. In a machine for coloring motion picture films, a support for the film to be colored, a support for the coloring film, a liquid color supply means, a roll for taking up liquid color, a second roll for receiving the color therefrom and applying it to certain parts of the coloring film, mechanical means for removing surplus color from the printing film, and means for transferring the color from the parts thus colored to corresponding portions of the film to be colored.

1,396,792. METHOD OF BLEACHING AND APPARATUS THEREFOR. Charles Taylor, Kearsley, near Manchester, England. Filed Sept. 20, 1920. Serial No. 411,566. 3 Claims. (Cl. 8—18.)

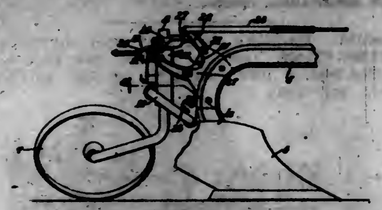


1. A method of bleaching cloth in rope form in keirs, consisting in passing two ropes of cloth simultaneously through a mangle; mechanically introducing into and automatically piling in a boiling keir one of said ropes; mechanically introducing into and automatically piling in a second boiling keir, the other of said ropes in a simultaneous manner; boiling said ropes of cloth; withdrawing said ropes and passing them simultaneously through a mangle; mechanically introducing into and automatically piling in a wood keir one of said ropes; simultaneously introducing mechanically into and automatically piling in another wood keir the other of said ropes; treating said ropes in said wood keirs; simultaneously withdrawing and expanding said ropes; passing said ropes together through a white mangle; and then simultaneously folding both of said ropes of cloth.

1,396,793. POWER-LIFT PLOW. Harry R. Traphagen, Rockford, Ill., assignor to Emerson-Brantingham Company, Rockford, Ill., a Corporation of Illinois. Filed Jan. 19, 1920. Serial No. 352,288. 5 Claims. (Cl. 97—36.)

3. In a plow, the combination of a plow-carrying frame, a rear furrow wheel having an upright spindle about which the wheel is adapted to caster, means connecting said spindle with the frame comprising a pair of substantially parallel links, one above the other, upon which the plow frame is adapted to swing vertically in a substantially parallel movement, a segmental gear fixed to one of the links, a segmental gear member pivotally mount-

ed on the frame and meshing with the link segment and adapted to be oscillated for raising the plow frame, the



wheel being capable of castering when the plow is raised, and means for automatically locking the wheel against castering when the plow is lowered.

1,396,794. FOLDING CHAIR. LEWIS C. TRAVERS, Gardner, Mass., assignor, by direct and mesne assignments, of one-half to E. H. Mahoney Chair Company, Gardner, Mass., a Corporation of Massachusetts, and one-half to Heywood-Wakefield Company, Wakefield, Mass., a Corporation of Massachusetts. Filed June 14, 1921. Serial No. 477,368. 2 Claims. (Cl. 155—142.)



1. A folding chair comprising rigidly connected side bars forming front legs; rigidly connected rear bars forming rear legs, and adapted to swing between the side bars, said rear bars having upper and lower longitudinal slots in their inner sides; a seat formed to swing between the side bars and provided with rearwardly extending arms; a back formed to swing between the rear bars; hinged connections permitting the seat to swing between the side bars, offset hinge connections between the seat arms and the back, upper pintles on the back slidable in the upper rear bar slots, and lower pintles on the seat arms slidable in the lower rear bar slots, the said hinge connections, pintles and slots firmly maintaining the rear bars, the seat, and the back in their operative positions when the side bars and rear bars are differently inclined and bear on a supporting surface, the arrangement being such that a folding movement of the seat causes the seat arm pintles and the upper back pintles to slide freely downward in the slots of the rear bars, until the seat, the back, and the rear bars are located between the side bars, and the seat is in contact with the back legs and with the back.

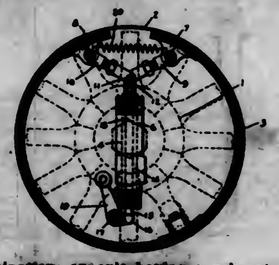
1,396,795. GAME. HENRY S. VOGEL, Grant City, Mo. Filed Jan. 23, 1920. Serial No. 353,420. 1 Claim. (Cl. 46—25.)

A card game comprising a deck of cards divided into an unequal number of suits of cards, the odd suit constituting a counter suit in contradistinction to the other suits, any one of which may be designated a trump suit, the cards of every suit rating consecutively in playing value and having suit-distinguishing characteristics whereby the cards of one suit are differentiated from the



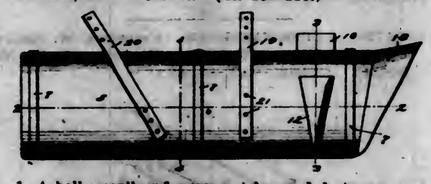
cards of the other suit; and a master card which is a trump of any suit.

1,396,796. BRAKE. WILLIAM G. WALL, Indianapolis, Ind., assignor to National Motor Car & Vehicle Corporation, Indianapolis, Ind., a Corporation of New York. Filed Apr. 24, 1920. Serial No. 376,390. 1 Claim. (Cl. 188—194.)



In combination, an axle having a yoke at its end, a steering knuckle coöperating therewith, a hollow bolt connecting the yoke and the knuckle, a brake drum, an expansible brake therein, a rod passing through the bolt, links connecting the bolt and the ends of the brake, said rod and links lying in the general plane of the brake drum, substantially as set forth.

1,396,797. PINK-BOLL-WEEVIL DESTROYER. JOHN MOLAND WEBB, Flat, Tex. Filed Sept. 27, 1920. Serial No. 412,943. 3 Claims. (Cl. 43—133.)

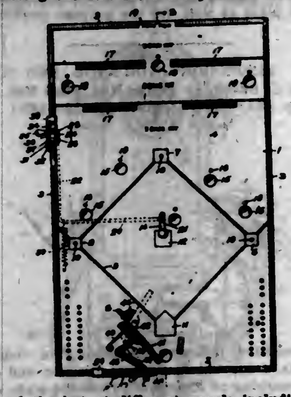


1. A boll weevil and worm catcher and destroyer, comprising a substantially cylindrical body having spaced bottom portions forming a clearance space therethrough, pans located at the bottom edges of the body, said body being substantially circular in cross section and having the pans at the bottom provided with closed ends and projecting inwardly, partitions in said pans, funnels leading from the outside of said body to said pans forwardly of said partitions, and means for supplying sulfur to said funnels to be burnt in said pans last named.

1,396,798. BASEBALL-GAME APPARATUS. ALEXANDER WEINBERG, Pittsburgh, and CHARLES V. LINDERMAN, North Braddock, Pa. Filed Feb. 16, 1920. Serial No. 358,961. 3 Claims. (Cl. 46—61.)

1. In apparatus of the character described, the combination with a field having a pitcher's and a batter's box, of a spring actuated swinging bat mechanism, means coöperating with the bat mechanism for providing a full

or a partial swing of the bat at will, and mechanism for delivering the ball from the pitcher's box in the di-



rection of the bat at different speeds including a spring actuated bent rod, and means co-acting with the rod for limiting the throw of the rod.

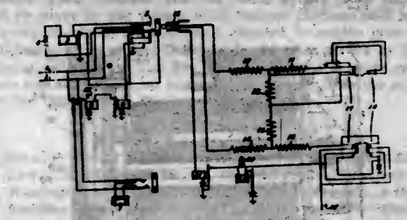
1,396,799. WEARING-APPAREL. FRANK WIBBELEY, Jamaica, N. Y., assignor to Barthels Manufacturing Company, Glendale, N. Y., a Corporation of New York. Filed July 1, 1919. Serial No. 306,038. 4 Claims. (Cl. 2—87.)



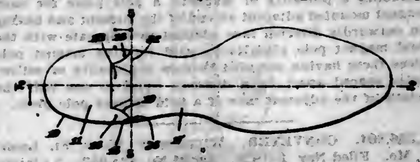
1. A button-hole strip for the edge of a garment having buttons at opposite edge thereof, said strip comprising inner and outer plies of fabric sewed together at the outer edge of the strip and initially open at the other edge of the strip to receive the fabric of the garment and be secured thereto, and a series of independent button-hole tapes secured by sewing between said plies and affording loops to be used as a substitute for button-holes, said loops being projected through said inner ply back from the edge of the strip and concealed by the outer face of the strip, and said button-hole tapes each being an integral woven piece of tape folded upon itself and having ends woven flat for attachment to the strip, and an intermediate portion woven circular in cross-section affording the loop to engage the button.

1,396,800. TESTING SYSTEM. RAY S. WILBUR, Lyndhurst, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 28, 1918. Serial No. 268,744. 4 Claims. (Cl. 179—175.)

1. A testing system, comprising electroresponsive means to be tested, a circuit controlled thereby, means for simulating the normal operating condition of such electroresponsive means, switching means for subjecting the electroresponsive means thereto, additional switching means for substituting another circuit for the first mentioned circuit and for maintaining the first mentioned circuit normal, and signaling means controlled by the last mentioned circuit to indicate the operation of the electroresponsive means.

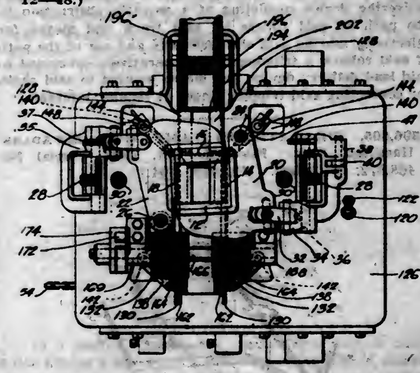


1,396,801. SHOE-BOTTOM. ERASTUS E. WINKLEY, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 16, 1916, Serial No. 125,976. Renewed July 1, 1920. Serial No. 393,456. 13 Claims. (Cl. 36—25.)



1. A shoe-heel having in its heel-seat surface, a pronounced recess below the general level thereof, for the reception of a sole, the recess extending from the breast-surface of the heel and being of less width than the heel except at its forward extremity, at which point it is the full width of the heel.

1,396,802. MACHINE FOR MOLDING HEEL-PILES. ERASTUS E. WINKLEY, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 19, 1917. Serial No. 155,902. 22 Claims. (Cl. 12—48.)



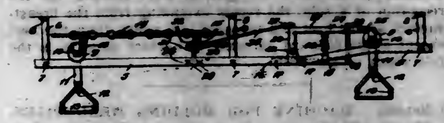
1. A machine for molding heel-piles having, in combination, a side-mold comprising two side walls arranged at an angle to each other; and mechanism for closing said mold against the work by movement substantially in the direction of the bisector of said angle.

1,396,803. ELECTRIC INDICATOR. Frank W. Wood, Montclair, N. J., assignor to Charles Cory & Son, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 7, 1920. Serial No. 402,602. 6 Claims. (Cl. 172—239.)



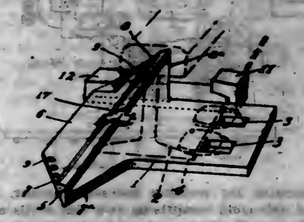
4. In an apparatus for locating a rotating element in a plurality of positions by selective operation of magnetic means, a plurality of field magnets circumferentially mounted, a radially arranged pole piece on one end of each field magnet, said pole pieces being located in the same plane and each having an inwardly directed arcuate face, said faces being of equal length; and a rotating element mounted centrally between said field magnets and including a plurality of magnets, a pole piece for each magnet mounted adjacent an end of the element and having an outwardly directed face adapted to cooperate with the field magnet pole piece faces, said rotating magnet pole piece faces having mounted thereon a plurality of salient poles spaced apart by a distance equal to one half the width of the adjacent face of a field magnet pole piece.

1,396,804. CONVEYER. William T. Wood, St. Louis, Mo. Filed Nov. 1, 1920. Serial No. 421,033. 2 Claims. (Cl. 104—253.)



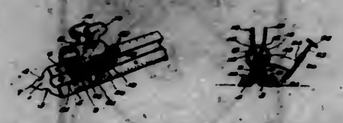
1. In combination with a track, rollers mounted on said track in rolling engagement, straps secured to said rollers in rotative engagement, hooks secured to said straps, an endless driving chain having projections thereon, a load delivering device consisting of a movable obstruction in the path of said rollers on said track and means for selectively moving said obstruction in and out of the path of said rollers, a tripping finger, operatively connected to said load delivery device, said means secured to said chain for contacting said tripping finger at regular intervals.

1,396,805. TIE-PLATE AND CLAMP. Granville Adams, Hamilton, Ohio. Filed May 11, 1921. Serial No. 468,872. 6 Claims. (Cl. 238—304.)



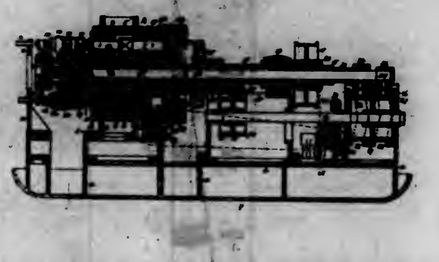
6. In a tie plate and clamp, the combination of a tie plate having a rail abutment on the outer side thereof, and a clamp adapted to lock around the inner side of the base of a rail resting on the plate and around the outer side of the plate as well, for the purpose described.

1,396,806. DIMENSION INDICATOR AND MARKER. Charles C. Beale, St. Louis, Mo. Filed Mar. 2, 1920. Serial No. 362,982. 4 Claims. (Cl. 33—189.)



1. A dimension indicator comprising in combination with a scale, a clip member slidable thereon and carrying means for marking off dimensions from the scale, said clip member including a pair of shoes engaging the scale and conforming to the configuration of the scale in transverse section, and a spring member compressing said shoes into engagement with the scale.

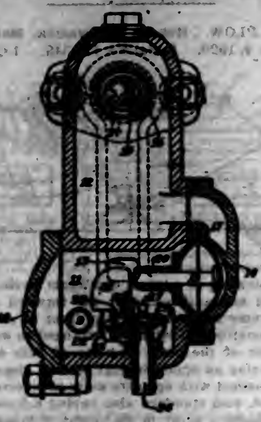
1,396,807. AUTOMATIC MULTIPLE-SPINDLE LATHE. William George Berry, London, England. Filed Dec. 6, 1918. Serial No. 265,493. 7 Claims. (Cl. 29—37.)



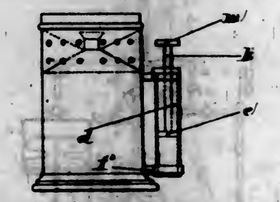
1. In a multiple spindle lathe, the combination of a head stock, a plurality of work-carrying spindles mounted for rotation in said head stock, means for rotating said spindles and including a central shaft mounted for rotation in the head stock, a gear secured to said shaft within the head stock, and pinions carried by the spindles in mesh with said gear, a tool slide for each spindle mounted in radial guides in the front face of said head stock, a ring-like sectional cam mounted for rotation on said head stock in a plane parallel with the front face thereof, means for rotating said cam, and means carried by said tool slides for engaging said cam thereby to cause the slides to simultaneously move radially of the work spindles during the rotation of the cam.

1,396,808. VALVE-CONTROLLING DEVICE. John Howard Brombaugh, Chicago, Ill., assignor to General Fire Extinguisher Company, Providence, R. I., a Corporation of New York. Filed June 28, 1920. Serial No. 392,861. 5 Claims. (Cl. 169—21.)

1. The combination, with a valve body, of a control lever separate therefrom, and means whereby it can engage the valve body in direction to close and in direction to open the valve; and a weight on said control lever; the whole being arranged to be set with the weight supported near the crest of its swing by said engagement with the valve body, thereby holding the valve body closed, and adapted to be moved over the crest by lateral pressure and to fall on the other side, thereby engaging the valve body to open the valve.

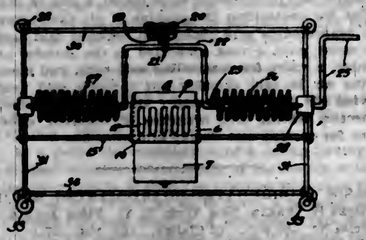


1,396,809. APPARATUS FOR HEATING BY CATALYSIS. Ramon Camell, Rhône, Laurent Cochet and Joseph Gritte, Lyon, France, assignors to Societe Lyonnaise Des Rechauds Catalytiques, Camell, Cochet, Gritte & Cie. (Societe en Commandite), Caluire, Rhône, France. Original application filed May 26, 1919, Serial No. 299,784. Divided and this application filed July 9, 1920. Serial No. 395,174. 2 Claims. (Cl. 158—96.)



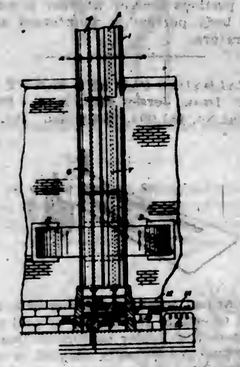
1. In a catalytic heating apparatus the combination of a catalytic pad, a reservoir, absorbent material in the latter, and a wick extending from said reservoir into proximity with the pad, with a hand operatable pump connected to said reservoir and an air pipe from said reservoir directed toward the catalytic pad.

1,396,810. ANIMAL-TRAP. Thomas S. Catlin, Wavelund, Ind. Filed Jan. 24, 1920. Serial No. 353,751. 2 Claims. (Cl. 43—76.)



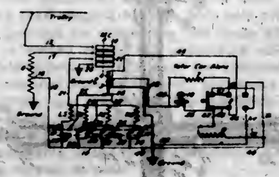
1. An animal trap comprising a frame, a rotary shaft journaled therein, a spring-pressed beater carried by the shaft, a keeper pivoted to the frame and extending in the path of the beater for preventing movement thereof, a bait box pivoted to the frame adjacent the path of travel of the beater when released, the box being poised to be tilted on its pivot by the weight of an animal thereon, said box having the front inclined wall adapted to enable ease of discharge of an animal from the frame when struck by the beater while on the bait box, and connections between said bait box and keeper for removing the keeper from the path of the beater when the box is tilted.

1,396,811. ELECTRICAL PRECIPITATING SYSTEM. Lewis Warrington Chubb, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 14, 1918. Serial No. 222,491. 26 Claims. (Cl. 183—7.)



1. In an electrical precipitating system, the combination with a treating chamber, of dimorphous electrodes positioned therein, a source of current supply therefor, and means whereby each electrode is constrained to alternately perform the functions of either a discharge electrode or of a collecting electrode only.

1,396,812. SYSTEM OF CONTROL. John A. Clarke, Jr., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 4, 1918. Serial No. 261,022. 4 Claims. (Cl. 172—179.)



1. In a control system, the combination with a limit switch having a series and a shunt actuating coil, of means comprising one switching device having only two active positions and another having only one active position for providing four settings of said relay device, both of said switching devices being associated with only one of said coils.

1,396,812. [illegible]. [illegible], Pa., [illegible] Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 4, 1919. Serial No. 287,576. 4 Claims. (Cl. 219—75.)



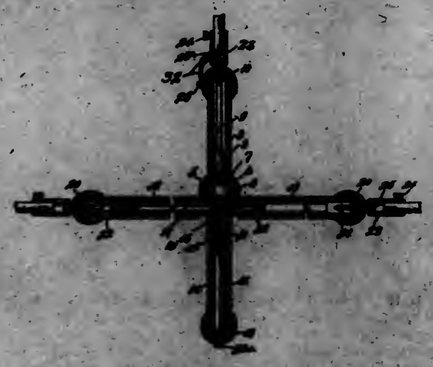
1. A resistance unit composed of solid conducting material having an initially negative temperature-resistance coefficient and comprising a bare body portion and integral end portions, the body portion having a higher resistance and a smaller radiating surface per unit of length than the integral end portions thereof whereby a constant resistance of said body portion is maintained at a predetermined temperature.

1,396,814. CALENDAR-PAD AND MOUNT THEREFOR. WILLIAM Y. DEAR, Jersey City, N. J. Filed June 28, 1921. Serial No. 481,094. 3 Claims. (Cl. 40—120.)



3. A calendar-pad mount consisting of a metallic reinforce adapted to engage three sides of said pad, and constituting a protective holder conformed thereto, the said mount comprising two elements adapted to be bent downwardly from the third element and to afford with the third element a triped support for said pad when in use, the two downwardly bent elements being adapted to be bent again at right angles to themselves to form feet for said elements, the metal being weakened to facilitate and guide the several bendings, said mount further comprising two prongs projected upwardly from the plane of the third element and adapted to fix the pad thereon.

1,396,815. SWITCH MECHANISM FOR X-RAY MACHINES. WILLIAM C. DEE, Cleveland, Ohio. Filed Oct. 4, 1919. Serial No. 328,434. 8 Claims. (Cl. 200—153.)



3. An electric switch, comprising a frame supporting a rotatable shaft, arms radiating from said frame, and slid-

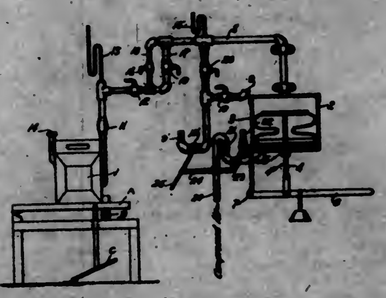
[illegible] and [illegible] thereon, said arms [illegible] said shaft.

1,396,816. FLOW. ERNEST M. DUNCAN, Madison, Ore. Filed Dec. 4, 1920. Serial No. 428,248. 1 Claim. (Cl. 97—27.)



The combination in a plow, of a beam having a reduced rear portion and a shoulder at the forward side thereof and also having a vertical bore in front of said shoulder, handles, a longitudinal latch rod arranged to work through said shoulder of the beam and extend into said bore, a standard having an upper journal portion disposed in said bore and provided with opposite seats to receive the end of the latch rod, said standard also having a journal portion at an intermediate point in its height, a brace having an intermediate collar receiving said journal portion of the shank and also having end portions fixed to the beam and the handles, respectively, reversely arranged plow bodies disposed with their moldboards at the same side of the beam, and braces fixed to said plow bodies and arranged at opposite sides of and fixed to the standard.

1,396,817. MEANS FOR AND METHOD OF TESTING GAS-METERS. RICHARD L. DRESSDORF, Richmond Hill, N. Y. Filed Aug. 14, 1919. Serial No. 317,475. 5 Claims. (Cl. 73—51.)

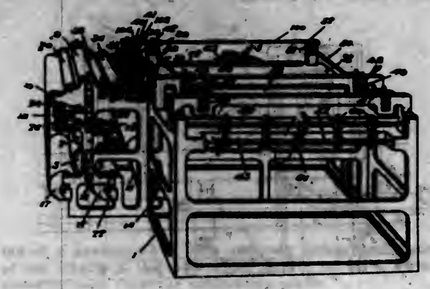


1. In a means for testing a gas meter, the combination of a chamber, a connection leading from said chamber to the outlet port of the meter to be tested, a cock in said connection for controlling the passage of air therethrough, a gage connected to said connection between said cock and said outlet port, a vent connected to the interior of said chamber, a valve for controlling said vent, and means for forcing air in said chamber out through said vent and drawing air into said chamber through said meter, said connection having two branches of different sizes, and means for opening and closing said branches.

1,396,818. CORRUGATED-BOARD-MAKING MACHINE. MORRIS B. DUSKIN, New York, N. Y. Filed June 4, 1920. Serial No. 386,655. 12 Claims. (Cl. 154—37.)

2. A machine of the character described, comprising means for making board from sheets and feeding such

board, cutting means to sever said board into pieces, pressing means for such pieces located out of the line of move-



ment of said board, and means for shifting said pieces into said pressing means.

1,396,819. SAW-CLAMP. JOSEPH DORY, St. Maurice, La. Filed Aug. 13, 1920. Serial No. 403,294. 3 Claims. (Cl. 76—78.)



1. A saw set comprising supporting members, end blocks carried thereby, a body member pivotally secured between the end blocks and capable of horizontal swinging movement, clamping jaws carried by the body member, said jaws extending through the end blocks and stops formed on the end blocks and located in the path of the jaws for limiting the pivotal movement of the latter.

1,396,820. TURBINE-PUMP. ANDREW C. DOUGLASS, Sonoma, Calif. Filed Apr. 19, 1920. Serial No. 375,069. 3 Claims. (Cl. 253—179.)

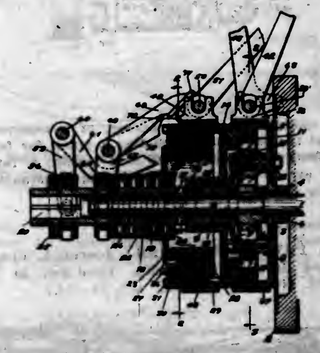
1. In a pump the combination of a casing having a toy top shaped chamber intermediate of its length, a housing having an umbrella shaped top adapted to inclose the upper part of the casing so as to leave a passage between said casing and said housing, a discharge from said passage, a vertical shaft extending centrally through said casing and said housing, means for positioning and driving

the same, a water lifting means within the toy top shaped chamber and a means in the umbrella shaped top for forc-



ing water downward into the passage, adapted to be driven by said shaft.

1,396,821. PLANETARY TRANSMISSION. WILLIAM F. DREW and BORIS V. KORVIN-KROUKOVSKY, San Francisco, Calif. Filed Nov. 7, 1919. Serial No. 336,305. 5 Claims. (Cl. 74—34.)



1. A planetary transmission comprising a driving shaft; a driving gear fixed thereon, a drum rotatably mounted upon said shaft; an idler pinion carried by said drum and positioned to mesh with said driving gear; a driven gear adapted to mesh with said pinion; a driven shaft; a clutch for connecting said drum with said driven shaft; a second clutch for connecting said driven gear with said driven shaft; means for independently holding said drum and said driven gear stationary; and controlling devices for simultaneously engaging both of said clutches, for simultaneously engaging said drum-clutch and said driven gear-holding means, and for simultaneously engaging said driven gear-clutch and said drum-holding means, at will.

1,396,822. HAMMER. MICHELANGELO FERRARO, Paterson, N. J. Filed Dec. 31, 1920. Serial No. 434,293. 2 Claims. (Cl. 306—32.)

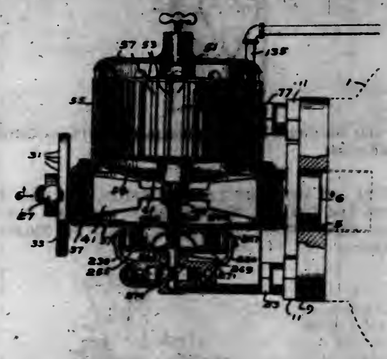
1. In combination, with the members to be interlocked and one of which penetrates and protrudes from the other and has on its protruding portion a shoulder facing toward the other member, a sheet-metal clip capping the

protruding end of the first member and forming an abutment limiting the displacement of said other member



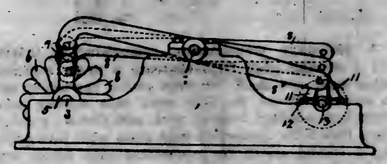
toward said end and having an inward rebent fold bearing against said shoulder.

1,396,823. OIL-BURNER SYSTEM. MILTON A. FEELER, Oakland, Calif., assignor, by mesne assignments, to Petroleum Heat and Power Company, a Corporation of Delaware. Filed Apr. 11, 1918. Serial No. 227,910. 21 Claims. (Cl. 158—77.)



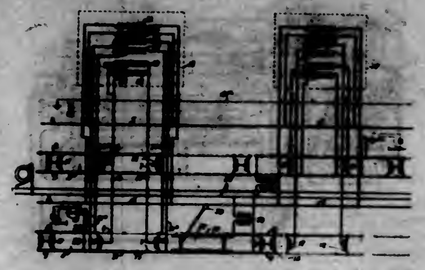
8. The combination with a burner, of a reservoir to supply fuel thereto, means including a pump for feeding the fuel from said reservoir to said burner, a fan for supplying air to said burner, and means actuated by said fan for driving said pump.

1,396,824. POWER MECHANISM. JOSEPH L. FORSYTH and AMOS BOFF, Baltimore, Md. Filed Feb. 19, 1921. Serial No. 446,445. 1 Claim. (Cl. 74—14.)



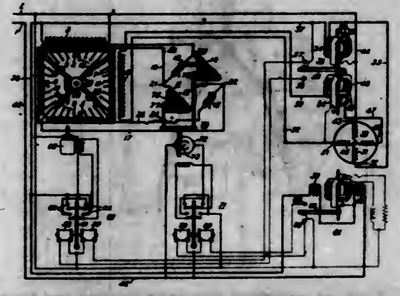
In a power mechanism, a frame, a shaft mounted on one end of said frame, a series of cam-wheels mounted upon said shaft and each having a number of cams thereon, a shaft mounted in the top of the frame in the center thereof, a number of rock arms mounted on the shaft at the top of said frame and each being bifurcated on both ends and each having one end projecting downwardly, a roller mounted in the downwardly projecting end of each of said rock arms and each impinging against one of said cam-wheels, a crank shaft mounted in the opposite end of said frame and having a number of cranks thereon, and a number of links each being pivoted between the bifurcated end of one of said rock arms and connected at its opposite end to one of said cranks.

1,396,825. RAILWAY SIGNALING SYSTEM. CHARLES LE G. FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 28, 1915, Serial No. 47,564. Renewed Nov. 5, 1920. Serial No. 422,078. 34 Claims. (Cl. 246—37.)



1. In a railway system, the combination with a source of propulsion current supply, a trolley conductor connected thereto, a source of signaling current, a track comprising a plurality of insulated sections, said track forming a portion of a signaling circuit, and additional insulating joints inserted in the rails comprising each of said sections, of means for inductively interlinking the track and the trolley conductor in order to confine the return flow of the propulsion current to the track and to permit unimpeded flow of a signaling current in each insulated section.

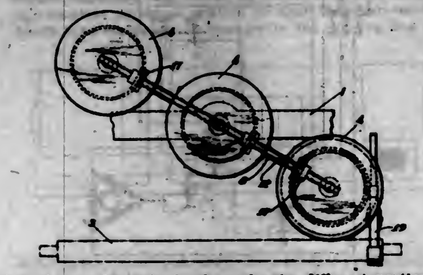
1,396,826. ELECTRICAL DISTRIBUTING SYSTEM. CHARLES LE G. FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 2, 1917. Serial No. 165,863. 25 Claims. (Cl. 172—238.)



3. The combination with a single-phase circuit and a polyphase circuit, of a phase-splitting device comprising a condensive aggregate and an inductive aggregate for interconnecting said single-phase circuit and said polyphase circuit, means for varying the voltage impressed upon said phase-splitting device, means for varying the derived voltage which is supplied to said polyphase circuit, and means responsive to load conditions in said polyphase circuit for simultaneously controlling said voltage-varying means.

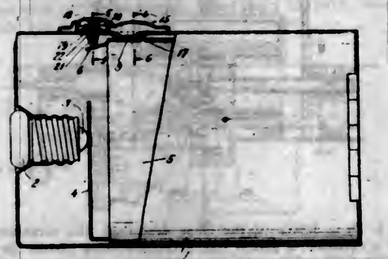
1,396,827. MULTICOLOR-PRESS. LOUIS FRIEDMAN, New York, N. Y. Filed Sept. 16, 1920. Serial No. 410,060. 9 Claims. (Cl. 101—208.)

1. A multi-color printing press embodying a form roller, a plurality of ink plates mounted on fixed axes in the path of the form roller and positioned at spaced distances apart in oblique relation to the direction of travel of the form roller so as to form a support for the form roller during its entire travel over the ink plates in succession, each of said plates being adapted to contain



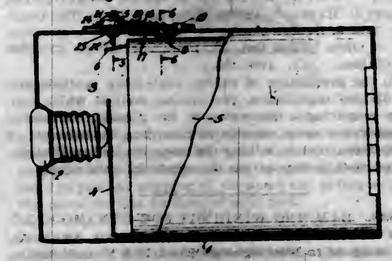
ink of a predetermined color, whereby different portions of the length of the form roller receive ink of a corresponding color from the coöperating plates.

1,396,828. HANDLAMP. GEORGE D. GALLAGHER, Washington, D. C., assignor to Winchester Repeating Arms Company, New Haven, Conn., a Corporation of Connecticut. Filed June 8, 1920. Serial No. 387,277. 8 Claims. (Cl. 200—60.)



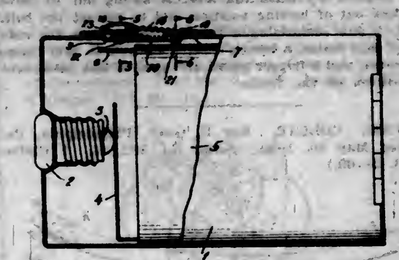
1. In a battery hand lamp, the combination of a battery case, a housing mounted to slide longitudinally thereof, a spring, and a spring pressed push-button contact mounted on said housing and slidably movable therewith, substantially as described.

1,396,829. HANDLAMP-SWITCH. GEORGE D. GALLAGHER, Washington, D. C., assignor to Winchester Repeating Arms Company, New Haven, Conn., a Corporation of Connecticut. Filed June 8, 1920. Serial No. 387,278. 9 Claims. (Cl. 200—60.)



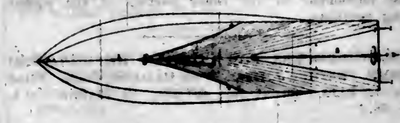
8. In a battery hand lamp, the combination of a battery case, a housing mounted to slide longitudinally thereof, a leaf-spring having one end riveted to said housing and a push button engaging the other end of said spring, said push button being movable along said case with said spring and housing.

1,396,830. HANDLAMP-SWITCH. GEORGE D. GALLAGHER, Washington, D. C., assignor to Winchester Repeating Arms Company, New Haven, Conn., a Corporation of Connecticut. Filed June 8, 1920. Serial No. 387,279. 7 Claims. (Cl. 200—60.)



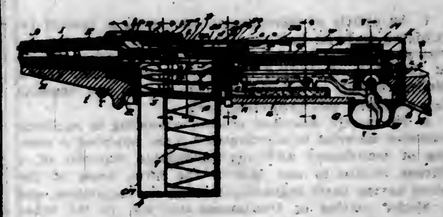
1. In a battery hand lamp, the combination of a battery case, a housing mounted to slide thereon, a leaf spring carried by said housing and having a battery-positioning shoulder, and a push-button contact carried by said spring and slidingly movable with said spring and housing, substantially as described.

1,396,831. SPEED-BOAT. ELLIOTT GARDNER, Colonie, N. Y., assignor to Albany Boat Corporation, Watervliet, N. Y., a Corporation of New York. Filed Dec. 16, 1920. Serial No. 431,130. 6 Claims. (Cl. 114—66.5.)



1. A boat having a hull with aftward divergent, water-engaging, planing, bottom surfaces.

1,396,832. GUN. OLIVER B. GRAHAM, Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed July 2, 1919. Serial No. 308,223. 24 Claims. (Cl. 42—3.)



1. A gun comprising a frame, a breech block and a lock for locking said block in closed position, said lock being longitudinally movable in said frame, and having opposite faces abutting faces of said frame and block respectively, and said block and frame faces being substantially symmetrically disposed relatively to a plane extending transversely of the path of movement of the lock and making equal angles with said faces.

16. A gun comprising a breech closure, firing mechanism associated therewith, and means for automatically recocking the firing mechanism during the periods the breech closure is opened and closed, said means including an ejector for ejecting cartridge cases from the gun.

19. A gun comprising a frame, a breech bolt movable in the frame, a lock movable on said bolt, and a lever pivotally mounted on the bolt so as normally to lie along the bolt and so as to be swung out from the bolt, said lever having cams adapted to engage said frame and lock respectively when the lever is swung out to move the lock out of locking position and to retract the bolt.

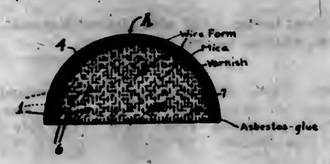
23. A gun comprising a frame, a cover over the rear end of said frame, a breech closure movable in said frame and cover, and a trigger guard arranged to lock said cover in position on the frame.

1,396,833. COLLAR. Roy E. Gray, Philadelphia, Pa. Filed May 20, 1920. Serial No. 382,744. 1 Claim. (Cl. 2—69.)



A collar having a band portion the ends of which are adapted to overlap, said band having a button-hole therethrough intermediate its ends and a button-hole adjacent one of its ends, there being a pocket formed near the other end of the band open at its bottom only, there being a button-hole formed in the inner portion of the pocket forming portions and covered by the outer pocket forming portion thereof, the arrangement being such that the head of the collar button will be within said pocket and covered when the collar is secured to the shirt of the wearer, and the cover forming portion will be restrained against movement by the inner portion of the pocket forming portions.

1,396,834. PROCESS FOR COATING RETICULATED FORMS. Arthur J. Hall, West Hartford, Conn. Filed Dec. 1, 1920. Serial No. 427,535. 8 Claims. (Cl. 91—68.)

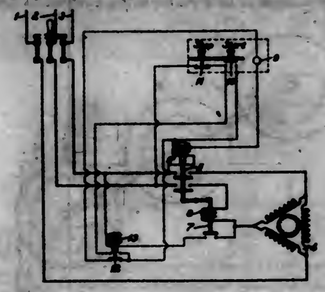


1. An article of manufacture comprising a base of reticulated material having a coating of translucent material of a fibrous nature on one face thereof, with some of the fibers projecting through the interstices, and a binder coating of translucent material on the opposite face engaging said projecting parts.

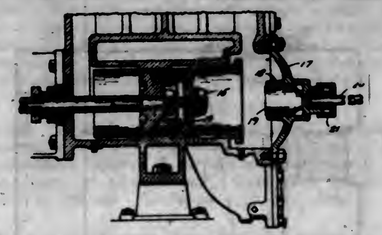
4. The herein-described process consisting in applying adhesive material to a reticulated form, applying a coating of translucent and non-inflammable material of a fibrous nature to one face of the form, some of the fibers having parts projecting through the interstices, and a binder coating of translucent material to the other face and engaging said projecting parts.

1,396,835. ELECTRICAL SYSTEM. Edward A. Hanff, Irwin, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 14, 1916. Serial No. 125,607. 14 Claims. (Cl. 172—288.)

9. In an electrical system, the combination with an electric motor, a controlling switch therefor having an actuating coil, and a switch for controlling the connection of said coil to a source of current, said second-named switch being adapted to normally assume an inoperative position, of a signaling device connected across a portion of the turns of said coil, and means for controlling a holding circuit for said coil and for controlling the circuit of said device to permit releasing said second-named switch under predetermined conditions without stopping the operation of said motor.



1,396,836. EXPANDING-PACKING CONSTRUCTION. Joseph W. Harasta, Los Angeles, Calif. Filed Sept. 8, 1920. Serial No. 408,826. 2 Claims. (Cl. 74—109.)



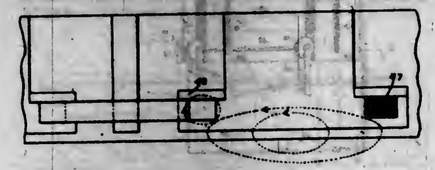
1. In a device of the class described, the combination of a cylinder, a piston rod, a reciprocating piston therein normally fixed on said rod and having expansible packing, a follower movable longitudinally of the piston body for expanding said packing and disposed so that said rod extends beyond said follower, a nut and screw device mounted on said rod for moving said follower and holding it fixed in adjusted position, a cylinder head having a pocket, a socket wrench disposed in said pocket and having its stem slidably and rotatably extended through said head for expanding said packing whereby said packing may be expanded from the outside of said cylinder.

1,396,837. COMPOUNDING OF RUBBER COMPOUNDS. Robert C. Hartong, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 25, 1918. Serial No. 259,690. 12 Claims. (Cl. 106—23.)

1. In the production of rubber containing proteids and finely divided ingredients, the mixing method which consists in preparing a dispersion of the proteid, containing an emulsifying agent capable of retarding the removal of the dispersion vehicle, mixing the finely divided solid therewith and then incorporating the whole into the rubber.

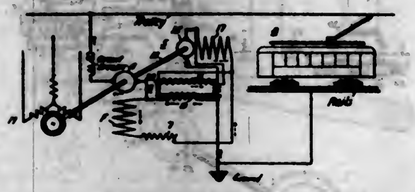
1,396,838. DAMPING WINDINGS FOR DYNAMO-ELECTRIC MACHINES. Rudolf E. Hellmund, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 6, 1917. Serial No. 178,951. 4 Claims. (Cl. 171—228.)

1. The combination with a dynamo-electric machine of the commutator type provided with means for producing exciting poles, of a conducting member surrounding a pole horn which tends to become saturated as the load current on said dynamo-electric machine increases, a conducting member surrounding a pole horn which tends to have its exciting flux reduced because of distortion as the load current increases, and means for connecting said conducting members in series relation so that the electromotive forces induced therein by changes in the exciting flux are



differentially combined while electromotive forces induced therein by changes in the cross flux are additively combined, the conducting member surrounding the horn whose flux tends to increase with an increase in load current interlinking with the exciting flux more times than the remaining conducting member.

1,396,839. HIGH-VOLTAGE DIRECT-CURRENT SYSTEM. Rudolf E. Hellmund, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 10, 1917. Serial No. 190,503. 8 Claims. (Cl. 171—225.)



1. In a system of distribution, the combination with a direct-current generator, of an auxiliary exciting system therefor, an inductive means in said system for inherently counteracting overload generator currents of large amplitude to a greater extent than upon smaller load increments.

1,396,840. RUPTURE APPLIANCE. Samuel H. Higginbotham, Alhambra, Calif. Filed May 4, 1921. Serial No. 466,677. 7 Claims. (Cl. 128—117.)

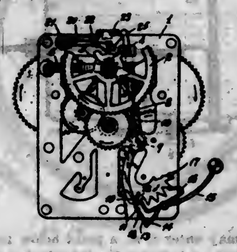


1. An appliance of the character described comprising in combination a resilient pressure pad having a way therethrough, a supporting band disposed in said way, and projections of resilient material in said way engaging said band to prevent slipping of the same and acting as supporting posts for the surface of said pad.

1,396,841. PREPARATION OF SODIUM SESQUICARBONATE. Wilhelm Hirschkind, Cartago, Calif., assignor to California Alkali Company, San Francisco, Calif., a Corporation of California. Filed Mar. 19, 1920. Serial No. 367,233. 9 Claims. (Cl. 23—22.)

1. The process of preparing sodium sesquicarbonate, which consists in dissolving crude sodium sesquicarbonate or trona in a hot solution containing sodium bicarbonate and also sodium carbonate, the latter considerably in excess of the sodium bicarbonate, and allowing the solution to cool to cause sodium sesquicarbonate to crystallise from the solution.

1,396,842. ALARM-CONTROLLING MECHANISM. Albert P. Hodge, Winsted, Conn., assignor to Wm. L. Gilbert Clock Company, Winsted, Conn., a Corporation of Connecticut. Filed May 3, 1920. Serial No. 378,588. 4 Claims. (Cl. 58—16.)



3. In an alarm clock, the combination of a time movement, an alarm movement, two levers in series with one another constituting a compound lever between said two movements, one lever normally tending to engage the alarm movement to stop the same and the other lever being controlled by the time movement so as to permit said stop lever to act to stop said alarm movement during a given period and retract it from alarm-stopping position at the end of that period.

1,396,843. ATTACHING MEANS FOR BROADCAST DISTRIBUTERS. David R. Holden, Peoria, Ill. Filed Nov. 7, 1919. Serial No. 336,377. 7 Claims. (Cl. 296—53.)

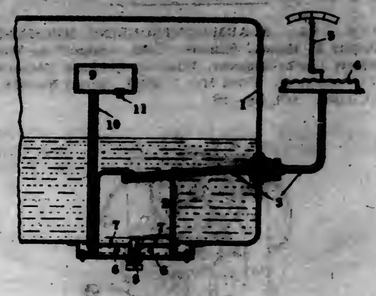


1. In a machine of the character described, in combination, a pair of spaced vertically disposed supporting bars, two pairs of vertically arranged attachment bars, one pair for each supporting bar, and means for adjustably securing each pair of attachment bars together and with a supporting bar.

1,396,844. DEPTH-INDICATING DEVICE. Edwin E. Huffman, St. Louis, Mo. Filed June 29, 1920. Serial No. 392,744. 7 Claims. (Cl. 73—54.)

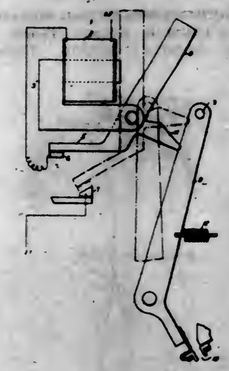
1. In an apparatus of the class described, the combination of a liquid container, pressure responsive means

for indicating the depth of liquid therein, a pressure-transmitting conduit extending from said gage to the container and provided with an opening whereby liquid from



the container may enter it at a point below level of liquid in said container, and means for introducing air into said conduit.

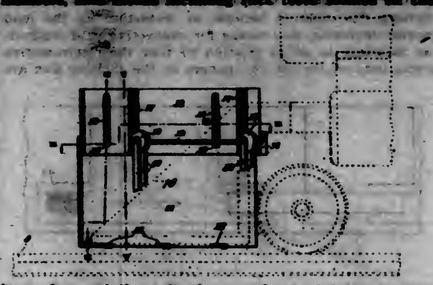
1,396,845. ELECTRICAL SWITCH. HENRY D. JAMES, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 1, 1917. Serial No. 189,889. 7 Claims. (Cl. 200—166.)



1. The combination with a magnetizable member and a coil for energizing said member, of an armature member mounted upon said magnetizable member and adapted to occupy a position in which it completes the magnetic circuit of said magnetizable member and effects the completion of the circuit of said coil, and means for actuating said armature member into said position and operatively engaging said armature member while it occupies said position.

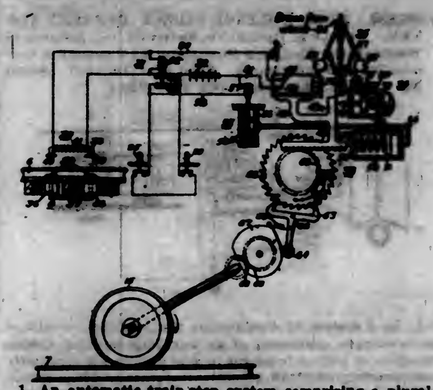
1,396,846. SNOWPLOW. MARY JESOVA, Waltz, Tex. Filed Apr. 5, 1920. Serial No. 371,360. 3 Claims. (Cl. 37—5.)

1. A snow plow comprising forwardly converging side walls, a vertical extension member carried by each side wall with the adjacent faces flatly engaging each other, means for independently vertically sliding said extension members, said means including rack teeth formed on the



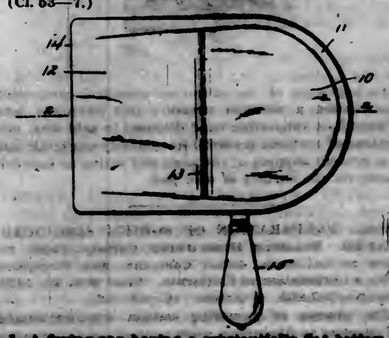
inner faces of the extension members, pinions engaging said rack teeth, and means for rotating said pinions.

1,396,847. AUTOMATIC TRAIN-STOP SYSTEM. MAURICE F. JONES, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 9, 1919. Serial No. 288,749. 12 Claims. (Cl. 246—63.)



1. An automatic train-stop system comprising a plurality of spaced and normally deenergized track magnets, means dependent upon the proximity of the train for energizing said magnets, and means having "normal danger" characteristics for stopping the train comprising time-element mechanism carried by the train and influenced toward its initial condition by said magnets.

1,396,848. FRYING-PAN. JOHN G. KING, Morristown, N. J. Filed Mar. 26, 1920. Serial No. 368,805. 3 Claims. (Cl. 53—7.)



1. A frying pan having a substantially flat bottom with a flange at the back and sides and having its front part

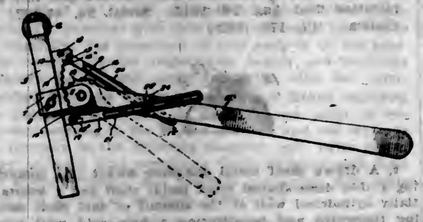
upwardly inclined to form a smooth and substantially flat portion which merges without abruptness into the bottom and is of substantially the same width for its entire length.

1,396,849. EMBROIDERY-NEEDLE. PHILLIP SHERIDAN KIRBY, Denver, Colo. Filed Apr. 13, 1920. Serial No. 373,584. 1 Claim. (Cl. 112—80.)



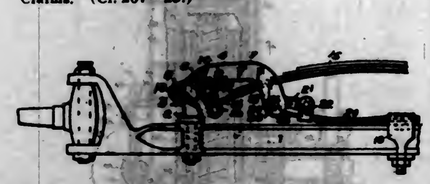
An embroidery needle comprising in combination a tubular body and a pointed lower end, a tension bridge formed in said body member over which the embroidery thread must pass, a combined adjustable depth gage and tension spring arranged and adapted to cross said bridge transversely and to engage with its angular end either of a series of transverse holes in said body member.

1,396,850. ADJUSTABLE EXTENSION-HANDLE. GOTTLIEB L. E. KLINGSELL, Omaha, Nebr. Filed Feb. 16, 1921. Serial No. 445,588. 7 Claims. (Cl. 74—39.)



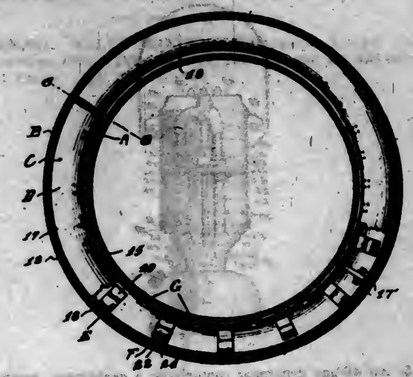
1. A handle comprising two parts adapted to be adjusted to positions of angularity with respect to each other, a double wedge between said parts and interengaging means between said wedge and the end of one of said parts to move said wedge to position to bind the parts against movement with respect to each other.

1,396,851. SHOCK-ABSORBER. ABANT J. KRABER, Pittsburgh, Pa. Filed Dec. 16, 1920. Serial No. 431,240. 6 Claims. (Cl. 267—20.)



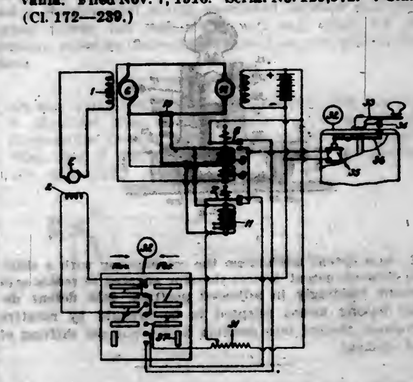
1. A shock absorber comprising an anchored resilient sustaining element having a yoke-shaped outer end, a sustaining lever having its outer end pivoted and further having a depending lower end, a link pivotally connected at one end to the sustaining lever end adapted to have its other end attached to a vehicle spring, said link carried by the lever intermediate the ends of the latter, and means to provide a slidable connection between the depending lower end of the lever and the yoke-shaped outer end of the sustaining element.

1,396,852. AIRLESS TUBE FOR VEHICLE-TIRES. JOSEPH J. KNAUT, Cleveland, Ohio. Filed Feb. 10, 1921. Serial No. 443,869. 5 Claims. (Cl. 152—8.)



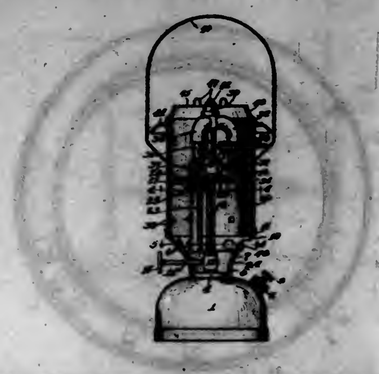
2. A resilient inner tube for vehicle tires comprising an annular band formed from spring steel curved transversely to form a substantially circular body in cross section, resilient flexible means connecting the inner edges of the band together, shock absorbing leaf springs arranged to engage the inner surface of the tread portion of the band, and shock absorbing springs arranged intermediate the springs engaging the tread portion of the band for engaging the side walls of the band.

1,396,853. ELECTRICAL SYSTEM. EDWIN S. LAMMERS, Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 7, 1916. Serial No. 129,972. 7 Claims. (Cl. 172—239.)



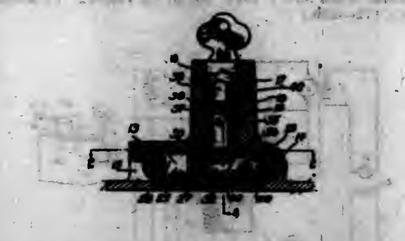
1. The combination with an electric motor and a source of current therefor, of a resistor, for controlling the voltage of said source, a pair of switches for controlling said resistor, each having a normal position and an abnormal position, said switches being adapted to short-circuit said resistor only when they both occupy their normal positions or their abnormal positions, and means for actuating one of said switches only during the deceleration of said motor and said other switch during the acceleration or the deceleration of said motor when the current traversing said motor exceeds a predetermined value.

1,396,854. HYDROCARBON-BURNER. JAY F. LAWRENCE, Chicago, Ill. Filed Oct. 28, 1918. Serial No. 259,776. 10 Claims. (Cl. 158—53.)



5. An oil-gas generator comprising a carbureter, means supporting the same adapted to supply oil thereto under pressure, an air supply tube connected with said carbureter to supply air thereto for mixing with the oil therein to form an oil-gas fuel, inverted burners supported by said carbureter to receive the oil-gas therefrom, a baffle plate below said burners and carbureter, and means adjustably engaged on said air supply tube for holding said baffle plate in an adjusted position.

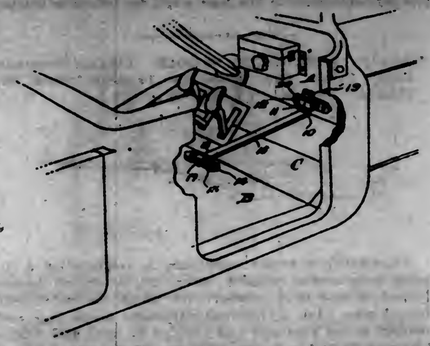
1,396,855. TRANSMISSION-LOCK. JOHN M. LEA, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Sept. 30, 1920. Serial No. 413,838. 9 Claims. (Cl. 70—126.)



1. In a detent mechanism the combination with a shiftable element, detent devices therefor adapted to retain said element yieldingly in adjusted position, said detent devices having means adapted to be brought by rotative movement thereof into position to prevent the shifting of said element.

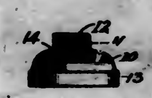
1,396,856. FOOTBOARD-HOLDER FOR AUTOMOBILES. JOHN P. LEONARD, Hawley, Pa. Filed Dec. 19, 1919. Serial No. 345,962. 1 Claim. (Cl. 296—1.)

In a motor vehicle, the combination with a stationary horizontal floor board, the dash, and a plurality of removable inclined foot-boards between the floor board and the dash; of means for securing the removable foot boards comprising a loop-like bracket member secured upon the horizontal floorboard, a bar having a dodected end engaged within said bracket and formed with a rib limiting its insertion through the bracket, an open ended bracket on the dash in which the other end of said bar is engageable, said second named end being angularly dodected, and said second named bracket being formed with a hole for the



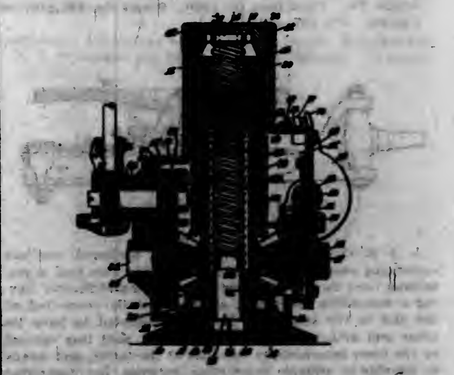
passage of a securing member whereby to prevent removal of the bar.

1,396,857. CAP FOR ELECTRIC-LIGHT SOCKETS. ALEXANDER W. LIMONT, Bridgeport, Conn., assignor to Bridgeport Brass Company, Bridgeport, Conn., a Corporation of Connecticut. Original application filed Feb. 10, 1915, Serial No. 7,291. Divided and this application filed Aug. 26, 1915. Serial No. 47,522. 4 Claims. (Cl. 173—362.)



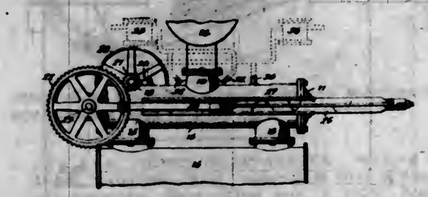
4. A drawn sheet metal one-piece socket cap, comprising a thin dome-shaped sheet metal shell and a substantially cylindrical wall at the summit of said shell merging therewith and constituting a hub, said wall being of considerably greater thickness than the shell and merging with the latter by a zone of intermediate thickness, said shell gradually decreasing in thickness from the hub to the periphery of the shell; substantially as described.

1,396,858. LIFTING-JACK. WALTER E. LOMBARD, Arlington, Mass. Filed Apr. 1, 1921. Serial No. 457,758. 25 Claims. (Cl. 254—103.)



1. In a lifting jack, a base; a post secured thereto and extending upwardly therefrom; a member revolubly thereon; a nut in the upper end of said revoluble member; a screw in said nut; a weight-supporting head secured to the upper end of said screw; means for guiding said supporting head in its vertical movement; and means for rotating said revoluble member.

1,396,859. CONVEYING-VALVE. ABRAM F. LONG, Buffalo, N. Y. Filed Apr. 4, 1921. Serial No. 458,621. 8 Claims. (Cl. 34—7.)



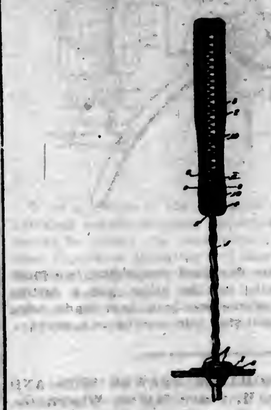
6. A balanced conveying valve, comprising a valve casing having a centrally disposed inlet passage and two oppositely disposed outlet passages arranged at opposite ends of said casing, said inlet passage being adapted for connection with a receiving chamber, said chambers being at different pressures, a slide valve movable lengthwise in said casing, and having a pocket near either end thereof for receiving material to be conveyed, said pockets being arranged to register successively with said inlet passage and alternately with said outlet passages, and means for equalizing the pressures in said pockets to the pressures existing in the respectively supply and receiving chambers before said pockets register with the corresponding inlet and supply passages, said means including two independent sources of pressure, one equal to the pressure existing in the supply chamber and the other to the pressure in the receiving chamber, said valve casing being provided with equalizing ports adjacent said inlet and outlet passages, and conduits connecting said ports with said sources of pressure, respectively.

1,396,860. METHOD AND APPARATUS FOR SEPARATING OIL AND GAS. DAVID G. LORRAINE, Los Angeles, Calif. Filed Feb. 14, 1921. Serial No. 444,696. 22 Claims. (Cl. 183—30.)



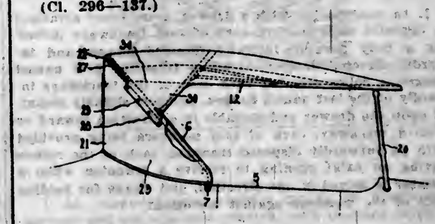
1. The method of separating the constituents of the flow from a well which consists of discharging said flow into a settling chamber, collecting the rising constituents of the flow in a second settling chamber, increasingly discharging the oil from said second settling chamber and decreasingly discharging the gas rising therefrom as the flow increases, and decreasingly discharging the oil from the second settling chamber and increasingly discharging the gas rising from the same as the flow decreases.

1,396,861. VALVE-GRINDER. WILLIAM J. LUCKS, Columbus, Ohio. Filed Jan. 12, 1921. Serial No. 436,651. 1 Claim. (Cl. 51—29.)



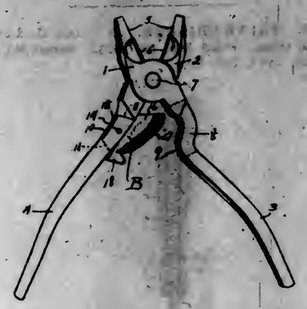
In a valve grinder, a spiral shaft, a handle structure having a bore formed therein arranged to slidably receive said shaft, means formed with the lower portion of said handle structure in coöperation with said shaft to effect the rotation of the latter, when said handle structure is vertically reciprocated, a main spring positioned between the upper end of said shaft and said bore and normally serving to maintain the shaft in an extended position, and a supplemental spring positioned between said first named means and coöperative with said shaft for resiliently arresting outward movement on the part of the shaft.

1,396,862. FOLDING TOP FOR AUTOMOBILES. GEORGE E. MADISON, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Jan. 2, 1920. Serial No. 348,757. 13 Claims. (Cl. 296—137.)



8. In a motor vehicle top and in combination with a plurality of supporting bows, and a back curtain secured along its upper and side edges to the rearmost of said bows; a fabric cover supported by said bows; a side quarter portion permanently secured along its upper edge to the fabric cover of the top and having a flap located adjacent its rear edge and depending below its lower edge; and means for detachably securing the rear edge of said flap portion relative to a side edge of said back curtain.

1,396,863. PLIERS. Joseph L. Maynard, Williamstown, Mass., assignor to Mayhew Steel Products, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 28, 1920. Serial No. 377,881. 7 Claims. (Cl. 7—4.)



6. A tool of the class described comprising two members movable one relative to the other, and a cutting blade carried by one of the members, said blade being provided with a stop, said stop also serving as a guard.

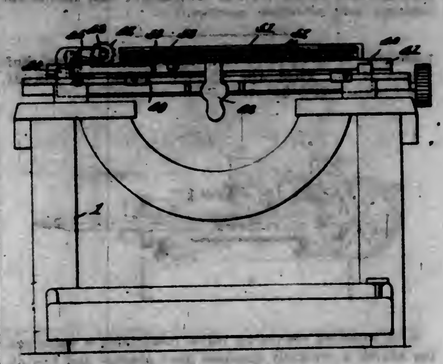
1,396,864. DETACHABLE DRAWER SETS AND ROLLERS. Samuel H. Claud Mayne, Winder, Ga. Filed July 18, 1921. Serial No. 485,286. 2 Claims. (Cl. 45—77.)



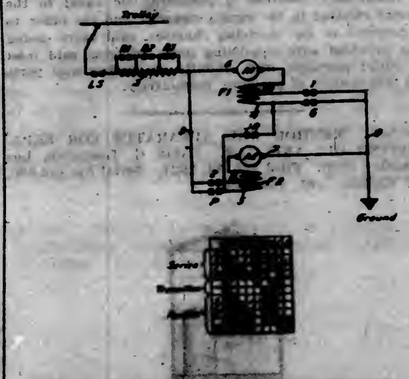
1. In combination with a drawer, a trackway arranged at opposite sides thereof, each of said trackways including a body portion, laterally directed flanges and inwardly directed flanges extending from the first named flanges, a roller coacting with each of the trackways inwardly of the last named flanges, members slidably mounted upon the drawer and movable in a direction toward or from a trackway, each of said members being provided with an outwardly disposed trunnion, each of the rollers having an axial opening to receive a trunnion when a member is moved in one direction, and means for holding each of the members against movement.

1,396,865. CARRIAGE-RETURN MECHANISM FOR TYPEWRITERS. William L. Mesecher, Lincoln, Mo. Filed Aug. 28, 1920. Serial No. 406,000. 2 Claims. (Cl. 197—63.)

1. The combination with a typewriter having a carriage and operating means, of power storing means including a spring and a gear rotated thereby, an operative connection between said spring and operating means for winding up the spring, a rock connected to the carriage and engageable with said gear, means for normally disengaging said rock and gear and to normally lock said gear, the last-mentioned means being operable in part to permit engagement of the rack and gear and release the latter.



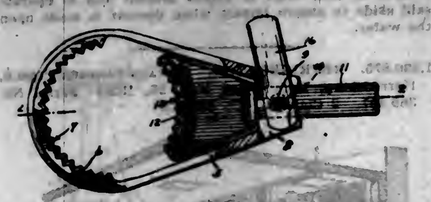
1,396,866. SYSTEM OF CONTROL. Harry R. Meyer, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 4, 1918. Serial No. 262,944. 4 Claims. (Cl. 172—179.)



2. In a system of control, the combination with a plurality of electric motors normally having armatures and having series-type field windings, each provided with a tap-point, of means for joining the outer ends of the field windings to connect the motors in series relation, means for connecting said outer ends to the outer terminals of the non-corresponding armatures to connect the motors in parallel relation and means for connecting said tap-points to said outer terminals to effect reduced-field excitation.

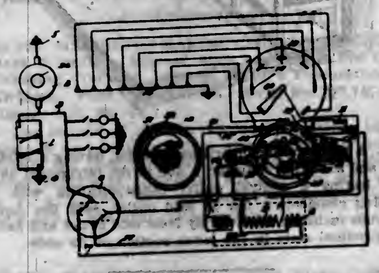
1,396,867. FRUIT-JAR-COVER REMOVER. Andrew B. Miller, Baldwin, Wis., assignor of one-third to Edward Christensen, Baldwin, Wis. Filed July 2, 1920. Serial No. 395,666. 6 Claims. (Cl. 81—3.1.)

1. A cover-remover comprising a rigid yoke-like body, having an internally-toothed segment and an extended cavity, a clamping head working in the crotch of said yoke with its stem projecting through the same and having at its inner edge a toothed segment, and a lever pivotally



connected to the crotch of said yoke and operating on said clamping head to force the same inward.

1,396,868. IGNITION APPARATUS. William B. Mozes, Watertown, Mass., assignor to Gray & Davis Inc., Cambridge, Mass. Filed Sept. 3, 1918. Serial No. 252,345. 4 Claims. (Cl. 123—148.)



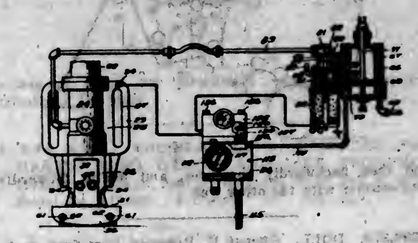
1. In an ignition device for use with an internal combustion engine, in combination, a primary circuit including a circuit opening and closing device and a resistance, and means operating at certain engine speeds for excluding the resistance from the primary circuit, said means comprising a brush susceptible to the influence of centrifugal force and contact rings adapted to be engaged by said brush to short circuit said resistance.

1,396,869. MOTOR-VEHICLE AXLE. Arthur Muenk, Oakland, Calif. Filed Jan. 20, 1921. Serial No. 438,739. 1 Claim. (Cl. 64—36.)



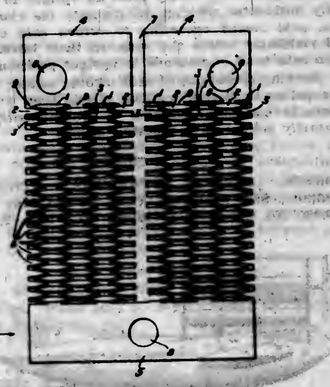
In combination, a driving axle for motor vehicles, and a housing for the axle including a confining mounting for an anti-friction device, the anti-friction device being mounted and confined within the outer end of the housing with the axle passing therethrough and with its extremity projecting beyond the end of the housing, and a detachable plate closing the end of the housing and adapted to confine the anti-friction device in the housing, said plate having an annular tongue member, said anti-friction device comprising ball bearings confined between inner and outer rings, the outer ring being of a less diameter than the end of the housing which receives it and the said annular tongue member presented between the said outer ring and the inner circumference of the housing to hold the outer ring against rotation.

1,396,870. RAILWAY CONTROL SYSTEM. William Bodine Murray, Danville, Ill., assignor to The Miller Train Control Corporation, Staunton, Va., a Corporation of Virginia. Filed Aug. 12, 1918. Serial No. 249,473. 13 Claims. (Cl. 246—181.)



2. In a system of the character described, mechanically actuated vehicle stopping apparatus, electrically operated means to render the mechanically actuated vehicle stopping apparatus operative and inoperative with respect to fulfilling its function, means for recording each operation of the mechanically actuated apparatus in stopping the vehicle, and means in circuit with said electrically operated means for recording each operation thereof.

1,396,871. EXPANDED-METAL RESISTOR AND METHOD OF MAKING THE SAME. Harry C. Nagel, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 7, 1919. Serial No. 281,154. 6 Claims. (Cl. 219—78.)

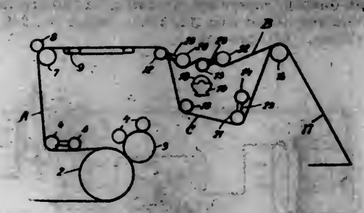


1. An expanded-metal resistor having an unexpanded portion and an expanded portion, said portions being of equal width.

1,396,872. PRINTING-PRESS. John L. Orrell, Brooklyn, N. Y. Filed Jan. 3, 1920. Serial No. 349,156. 1 Claim. (Cl. 270—5.)

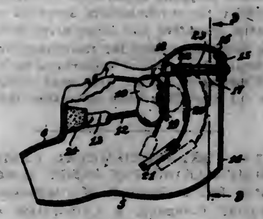
In a machine of the class described, a paste applying device, leading means for a pair of webs, said leading means being adapted to permit of either face of one web being first carried into contact with said paste applying device and then into contact with the other web, said means including a series of rollers whereby the web

to receive the paste may be carried forwardly over the pasting device, or first forwardly under the pasting device



and then backwardly thereover, and finally forwardly into contact with the other web.

1,396,873. DOLL. George H. Parsons, New York, N. Y. Filed Jan. 31, 1920, Serial No. 355,484. Renewed Sept. 30, 1921. Serial No. 504,495. 7 Claims. (Cl. 46—40.)



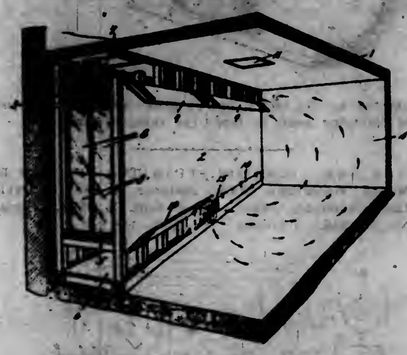
1. In a doll's head, the combination, with means for automatically turning the eye-balls thereof when said head is tipped rearwardly from an upright to a substantially horizontal position, to simulate the closing of the eyes, said means operating to return said eye-balls to and yieldingly retain the same in their initial positions when said head is returned to upright position, of means for checking operations of said turning means, and means operated by the lateral rocking of said head while in substantially horizontal position to intermittently and momentarily release said checking means.

1,396,874. AERIAL APPARATUS. Vittorio Pastrengo, San Francisco, Calif. Filed May 21, 1921. Serial No. 471,425. 5 Claims. (Cl. 244—2.)



1. The combination with an aerial apparatus having wings and a propelling means, of a pair of buoyant hulls secured to said apparatus and arranged to float the same upon the surface of a body of water; a landing skid slidably mounted within each hull and extending outwardly from the bottom thereof; air cylinders mounted within said hulls; a plunger mounted within each cylinder and secured to said skids whereby upward movement of said skids when alighting upon land is resiliently retarded by the air within said cylinder; a skid pivotally and resiliently secured between the hulls at the rearward end thereof, to absorb impact and to support said rearward end when descent is made upon the land; and means secured to said skids to retard descent and to operate said skids to absorb impact when descent is made upon the water.

1,396,875. REFRIGERATOR. Howard Castner Pierce, Harrodsburg, Ky. Filed Mar. 27, 1920. Serial No. 369,497. 2 Claims. (Cl. 62—72.)



1. A refrigerator comprising a casing, having a refrigerant and a cooling chamber, a flue in the refrigerant chamber having a central outlet communicating with the cooling chamber, a fan in said outlet, said flue having its ends inclining downwardly from said outlet and having longitudinal slots in the lower portion of its ends.

1,396,876. ELECTRIC-CUT-OUT BOX. Clarence D. Platt, Bridgeport, Conn. Filed May 22, 1920. Serial No. 383,886. 2 Claims. (Cl. 220—31.)

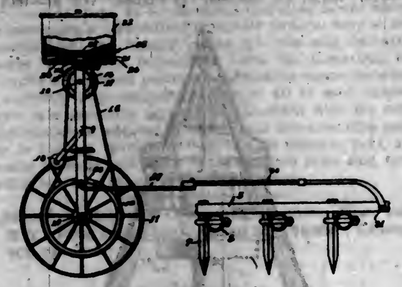


1. In an electric cut out box, a metal box body member, and a metal cover member for said box body member, one of said members having a pintle thereon, the other of said members having slits therein, and the metal between said slits displaced to form a hinge tongue loop for receiving said pintle and hinging the cover to the box body, the metal on a part adjacent one of said slits being displaced and forced over the metal on the part opposite the other part and adjacent the slit, whereby the hinge tongue will be rigidly secured and the disengagement of the box body and cover prevented.

1,396,877. HARROW-TRAILING SEEDER. Julius Floss, Green Island, Iowa. Filed May 6, 1920. Serial No. 379,336. 1 Claim. (Cl. 275—9.)

In combination with a support, a seeder including a pair of supporting arms, a wheel supported between the arms, a hopper supported by the arms, a relatively large yoke including a pair of diverging arms, said arms having

curved extremities connected to the support, a second yoke including diverging arms having their free ends con-

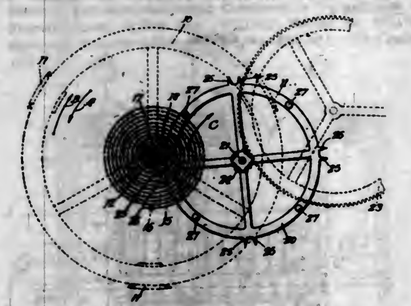


nected to the seeder, and means for adjustably connecting the yokes.

1,396,878. METHOD OF MAKING CELLULOSE ESTERS. Mark E. Putnam, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Oct. 11, 1918. Serial No. 257,747. 5 Claims. (Cl. 23—24.)

1. The method of making cellulose derivatives which consists in acetylating cellulose with an excess of acetic anhydrid, and then hydrolyzing the resulting anhydrous cellulose acetate by adding the mixture from such first step to a mixture of previously hydrolyzed cellulose acetate and excess hydrolyzing solution.

1,396,879. WATCH-MOVEMENT. John Rizek, Cudahy, Wis. Filed Apr. 12, 1920. Serial No. 373,276. 2 Claims. (Cl. 58—119.)



1. In a watch movement, the combination of a rotatable anchor wheel, a balance wheel having a verge in which a slot is provided, a plurality of pairs of teeth for the anchor wheel, each tooth being adapted to move in and out of the slot, a lever carried by the verge, and a pin spaced between adjacent pairs of teeth and adapted to coöperate with the lever.

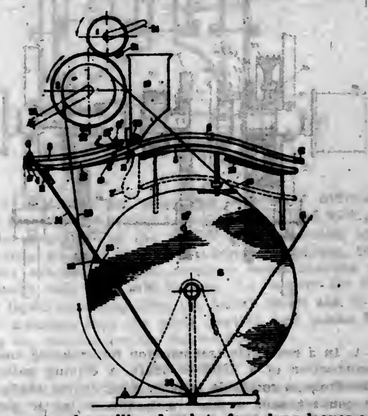
1,396,880. THRUST-BEARING. Charles G. Robertson, Barrow-in-Furness, England. Filed Mar. 5, 1921. Serial No. 450,050. 9 Claims. (Cl. 64—25.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. In a thrust bearing of the kind set forth, a plurality of bearing blocks each having a flat bearing surface and a part spherical rear surface, and a three point support for the spherical surfaces of the said blocks, the three



points of which are distributed substantially concentrically of the block.

1,396,881. DOUGH-ROLLING APPARATUS FOR MAKING LONG LOAVES AND LIKE PRODUCTS. Hyacinthe Rolin, Namur, Belgium. Filed Feb. 9, 1921. Serial No. 443,633. 7 Claims. (Cl. 107—9.)



1. Apparatus for rolling dough to form long loaves and other flour products comprising a pair of substantially parallel surfaces, a sheet of flexible material, means for charging said sheet with dough, means for bending said sheet to form a pocket, and means for rolling said pocket along and between said surfaces.

7. Apparatus for rolling dough to form long loaves, and other flour products comprising a pair of substantially parallel surfaces, a fabric having two ends connected at one end to one of said surfaces and extending between said surfaces, means for charging said fabric with dough, and means for rolling said fabric along and between said surfaces in the form of a pocket.

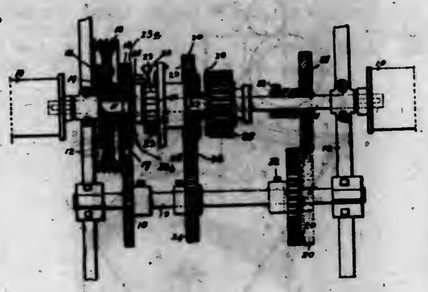
1,396,882. SPARK-ARRESTER. Tony Rudzinski, Virginia, Minn. Filed May 5, 1921. Serial No. 466,997. 2 Claims. (Cl. 183—102.)



1. In a device of the class described, a chimney, a spark arrester associated with the chimney and secured to the

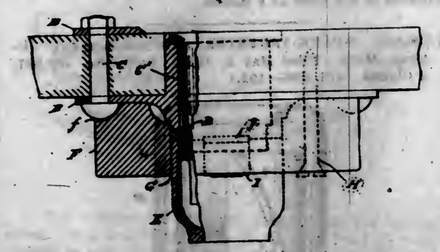
former face thereof, the arrester being constructed to provide an unobstructed vertical axis and vertical radial passages in the chimney, said spark arrester including a plurality of vanes, each embodying a curved base flange secured to the inner face of the chimney and arranged at an angle to the vertical axis of the chimney, each vane confined within an arc of less than ninety degrees, and all of the vanes equidistantly spaced, a vane wall extending at right angles from the base flange with the free edge lying in a plane parallel with the vertical axis of the chimney and the lower end of the vane wall merging into the base flange.

1,396,883. REVERSIBLE TRANSMISSION FOR SPINNING-MULES. John H. Etalls, Charlottesville, Va. Filed Aug. 18, 1920. Serial No. 403,198. 5 Claims. (Cl. 118—28.)



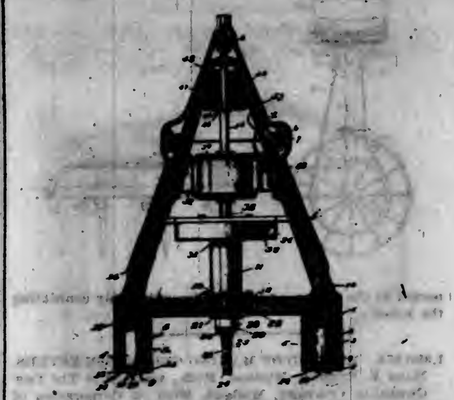
1. In a reversible transmission for spinning mules, the combination of a cylinder shaft, a driving pulley loose therefrom, a rotatable member fixed to the shaft, means to connect said member with the pulley to drive the shaft in one direction, and means to drive the shaft in the opposite direction comprising a jack shaft, a driving connection between the pulley and the jack shaft, and a separable driving connection between the two shafts.

1,396,884. LOCK FOR HUB-CAPS. Albert W. Sarcasaan, Granite City, Ill., assignor to Liberty Auto Lock Co., St. Louis, Mo., a Corporation of Missouri. Filed Oct. 2, 1919. Serial No. 327,989. 3 Claims. (Cl. 70—90.)



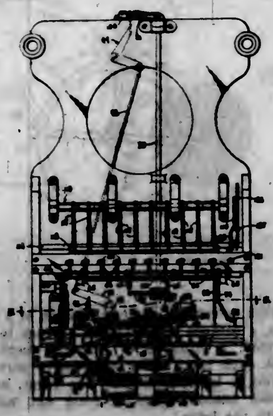
1. The combination with a wheel axle, a wheel hub turning with and fixed on said axle, an axle nut mounted on said axle and having outer threads also, and a cap screwed on the outside of said nut and having a recess formed in its outer portion near its junction with said nut, of a key-operated lock having a bolt adapted to be thrown into and out of said recess, and a support for said lock and carried by said hub adjacent to said cap.

1,396,885. DEVICE FOR RAISING SUNKEN VESSELS. Lucumano Sanchez, Habana, Cuba, assignor of one-half to Alexander Angulo, Habana, Cuba. Filed Nov. 18, 1919. Serial No. 338,906. 11 Claims. (Cl. 61—69.)



1. A device of the class described including a casing provided with spaced depending legs adapted to support the device in an upright position and having chambers or compartments, magnets located within the chambers or compartments of the legs and drilling and tapping mechanism for securing the device to a sunken vessel or other object, said drilling or tapping mechanism having gravity means for feeding the same.

1,396,886. CALCULATING-MACHINE. Edward C. Schinner and Norman A. Sutherland, St. Louis, Mo., assignors to Typewriter Calculating Attachment Company, St. Louis, Mo., a Corporation of Missouri. Filed May 1, 1919. Serial No. 293,970. 48 Claims. (Cl. 235—59.)



2. The combination of a typewriter having a platen carriage, and calculating mechanism comprising a plurality of accumulators each provided with an actuator and a traveling denominational carriage movable step by step to change the denominational relation of the actuator to the accumulator, operating means whereby motion is transmitted from said platen carriage to one of said denominational carriages, said operating means being provided with a selector on said platen carriage whereby the last mentioned denominational carriage is selected, and a driving connection whereby movement is transmitted from the last mentioned denominational carriage to the other denominational carriage.

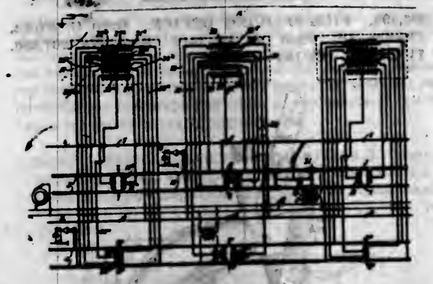
47. The combination of a typewriter having a tabulating key, numeral keys, an accumulator, operating means whereby movement is transmitted from said numeral keys to said accumulator, and locking means whereby said operating means is rendered inoperative when the tabulating key occupies a depressed position, said locking means including a universal stop member common to all of said numeral keys, said operating means being provided with key actuated abutments adapted to engage said universal stop member to prevent operation of all of said numeral keys, and means whereby movement is transmitted from said tabulating key to said universal stop member.

1,396,887. CLASP. Arnold Schoutens, New York, N. Y. Filed Jan. 8, 1921. Serial No. 435,906. 7 Claims. (Cl. 24—230.)



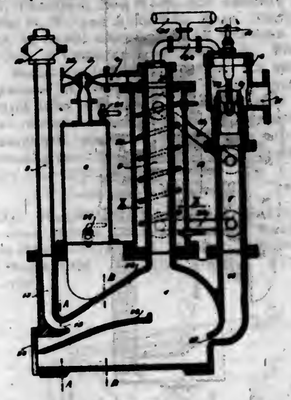
5. A clasp comprising a socket member, a resilient catch member arranged to be inserted into said socket member, said catch member comprising connected legs having an inherent elasticity tending to spread them apart to an operative position, a projection and a notch on said members, coöperating, in the operative position of said catch member, to detachably connect said members, grooved bearing members carried by said legs, a ring rotatably mounted upon said bearing members and a cam member carried by said ring whereby said legs are pressed toward each other to an inoperative position to disengage said notch and projection and permit separation of said clasp members, said ring protecting said legs, when spread apart, against unintentional adjustment toward each other to said inoperative position.

1,396,888. RAILWAY SIGNALING SYSTEM. Charles P. Stoller, New Haven, Conn., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 29, 1915, Serial No. 69,175. Renewed June 9, 1920. Serial No. 387,891. 22 Claims. (Cl. 246—37.)



1. In an electric railway system, the combination with two tracks each having an associated trolley conductor, said tracks comprising insulated block-sections which are arranged in staggered relationship in the tracks, and insulating joints inserted at corresponding points in both tracks, of means for inductively interlinking each trolley conductor to its associated track, mutually inductively related windings for bridging the insulating joints positioned at intermediate points in the block-sections, and equalizing means for equalizing the return flow of the propulsion currents in the two tracks, said equalizing means comprising inductively related coils connected between said tracks and, in turn, inductively interlinked with said means which serve to interlink said trolley conductor and said track.

1,396,889. APPARATUS FOR EXTRACTING AND REFINING GREASY SUBSTANCES CONTAINED IN WATER. Edouard Sepulchre, Woluwe-St. Pierre, Belgium. Filed Sept. 14, 1917. Serial No. 191,493. 5 Claims. (Cl. 210—51.)



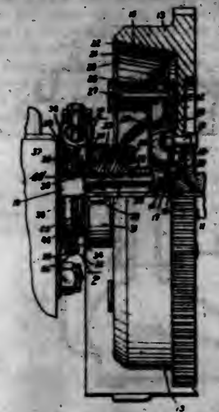
1. An apparatus for separating liquids of different specific gravities comprising a receptacle provided with an inlet, for a mixture of the liquids to be separated, and two outlets situated in different horizontal planes, two vertically extending tubular receivers communicating at their lower ends with said outlets, the receiver for the lighter liquid extending from the higher outlet and to a greater elevation than the other receiver, and means for heating the receiver for the lighter liquid.

1,396,890. HYDROCARBON-MOTOR. Charles R. Snook, Detroit, Mich., assignor to General Motors Company, Detroit, Mich., a Corporation of New Jersey. Filed Mar. 24, 1917. Serial No. 157,108. 13 Claims. (Cl. 123—178.)



2. An internal combustion engine including a casing, a one-piece liner block detachably supported thereby and mounted in the casing and forming a plurality of cylindrical arranged in a row, the cylinders having firing ends, the casing being unobstructed throughout the length of the row and forming one peripheral joint with the liner block near the firing ends of said cylinders and also forming another peripheral joint therewith, spaced from the first mentioned joint toward the opposite ends of said cylinders, the liner block and casing together forming a chamber for cooling fluid for the engine.

1,396,691. HYDROCARBON-MOTOR. CHARLES E. SNOOK, Detroit, Mich., assignor to General Motors Company, Detroit, Mich., a Corporation of New Jersey. Filed May 28, 1917. Serial No. 171,494. 12 Claims. (Cl. 192—18.)



1. In combination, a rotatable driving clutch member; a driven clutch member rotatable about an axis coincident with the axis of said driving clutch member and movable along said axis to thereby cause said members to engage with and move apart from one another; means for moving said driven clutch member along its axis of rotation; a braking member secured to said driven clutch member and rotatable therewith; a second braking member stationary relative to said first mentioned braking member and to said driven clutch member, and with which second braking member said first mentioned braking member may be made to engage; and cam means arranged concentric with the axis of rotation of said clutch members and angularly adjustable about said axis for adjusting said second mentioned braking member along said axis and relative to said first mentioned braking member.

1,396,892. SHOW-CARD HOLDER. OTTO RICHARD SIELAFF, Livingston, Mont. Filed June 6, 1921. Serial No. 475,882. 1 Claim. (Cl. 40—11.)



A sheet metal show card holder comprising a base adapted to rest within a merchandise tray, a back bent up from said base and disposed at substantially right angles thereto, a ledge bent out from said back above and parallel to said base for supporting a show card in a visible position above the walls of said tray, the side edges of said back being bent inwardly to form a pair of spaced guides for engagement with said show card, and a lug struck out from said back, said lug and back being relatively arranged to form a clip adapted to straddle one of the side walls of said tray.

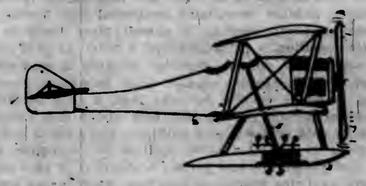
1,396,893. FOLDING UMBRELLA. PETER S. SIMMONS and WILLIAM J. FRICK, Paterson, N. J. Filed Feb. 21, 1920. Serial No. 360,296. 2 Claims. (Cl. 135—26.)

2. A folding umbrella rib including an outer and an inner section, the outer section being pivotally movable in a plane beside the inner section and one section being channeled, a sheet-metal piece bent around the convex side, and having opposite edge portions thereof bent into the channel, of the channeled section and also having a



lateral elongated edge portion thereof rebent into a channeled portion, said channel-portion snugly receiving and its opposite walls laterally supporting the other section, and a pivot penetrating both said walls of the channel-portion and also penetrating the other section.

1,396,894. AEROPLANE ATTACHMENT. GEORGE C. STEVENS, Seattle, Wash. Filed Oct. 13, 1920. Serial No. 416,608. 1 Claim. (Cl. 244—2.)



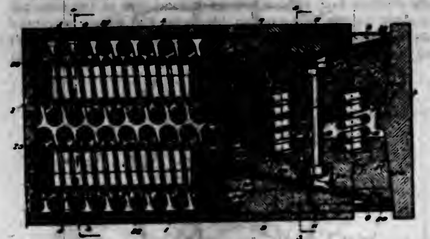
A sea plane having a pontoon formed with an opening in the bottom thereof, a lever pivoted in the top portion and having an end portion extending into the pontoon adjacent the bottom opening, the other end portion extending to a point adjacent the operator's seat, a valve member pivoted to the end of said lever within the pontoon and adapted to close the opening in the bottom thereof.

1,396,895. FILM-SPLICING DEVICE. OTTO G. STOLL, Chicago, Ill. Filed Dec. 17, 1917. Serial No. 207,396. 11 Claims. (Cl. 154—42.)



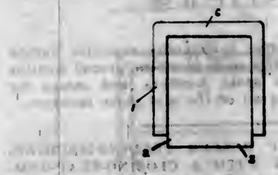
1. A film splicing device comprising a pair of laterally aiming and laterally adjustable positioning pins arranged to engage opposite perforations in a film section; and means for trimming the end of a film section held by said pins, substantially as described.

1,396,896. SHOCK-ABSORBING MECHANISM. WILSON E. STRONG, New York, N. Y. Filed June 12, 1920. Serial No. 388,496. 12 Claims. (Cl. 213—64.)



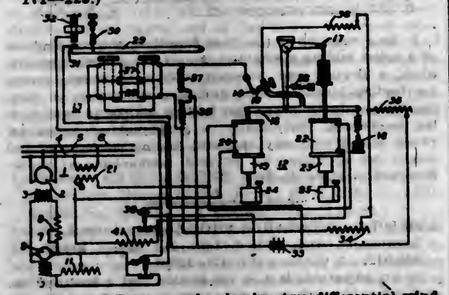
1. In a device of the character indicated, the combination with yielding means, of a casing, a plurality of simultaneously movable wedges which are slidable in contact with said casing and are adapted to approach and separate from each other, spring means interposed between said wedges and compressible thereby, and a follower movable with respect to said casing and interposed between said yielding means and said wedges and adapted to be actuated by said wedges, said follower and said wedges having engaging faces extending obliquely to the direction of travel of said follower and converging toward said spring means.

1,396,897. CONDENSER. PHILLIPS THOMAS, Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 8, 1917. Serial No. 195,224. 8 Claims. (Cl. 250—41.)



7. An electric condenser comprising superimposed alternating sheets of insulating material and of foil, the sheets of foil being of smaller size than the sheets of insulating material and being disposed so that alternate sheets of foil project beyond opposite sides of the sheets of insulating material and additional sheet insulating material surrounding the non-projecting edges of the sheets of foil between the sheets of insulating material.

1,396,898. REGULATING SYSTEM. ALLEN A. TIRRILL, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 19, 1918. Serial No. 254,760. 6 Claims. (Cl. 171—229.)

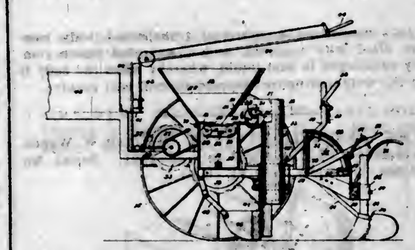


1. In a regulator, a relay having two differential windings, resistors severally connected in series with, and in shunt to, said windings, and means for opening and closing the circuit of one of said windings.

1,396,899. PROCESS OF TREATING WOOD. ALEXANDER H. TWOMBLY, New York, and ANDREAS P. LUNDIN, Bayside, N. Y., and ROBERT A. MARR, Norfolk, Va., assignors, by mesne assignments, to American Balsa Company, Inc., a Corporation of New York. Filed Jan. 10, 1917. Serial No. 141,531. 1 Claim. (Cl. 99—12.)

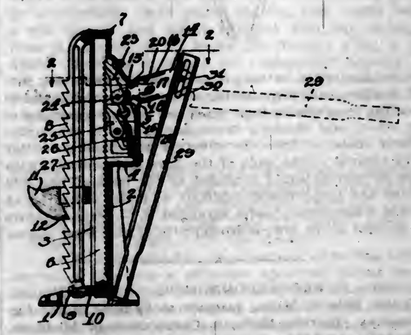
The process of treating wood which consists in first humidifying it by exposure to steam the wood being maintained at temperatures above 100° Fahrenheit and below 212° Fahrenheit, and then subjecting it to a bath of a water-proofing substance heated to a temperature equal to or greater than 212° Fahrenheit.

1,396,900. PLANTING-MACHINE. MARTIN TWORSKI, Vancouver, British Columbia, Canada, assignor of one-half to Michael Szymanski, Winnipeg, Manitoba, Canada. Filed May 4, 1920. Serial No. 378,734. 2 Claims. (Cl. 221—128.)



1. An agricultural implement comprising a frame, a multiple compartment hopper hinged to the top of the frame and having openings in the bottom and rear wall thereof, a receptacle disposed beneath said hopper, an endless belt associated with each hopper opening and located in the receptacle and adapted for horizontal travel beneath the hopper openings, a portion of the bottom wall of the hopper overlying the endless belt whereby the contents of the compartments are adapted for rearward travel upon said belts outwardly of the compartments, and dropping means adapted for rearwardly feeding the contents of the compartments received from said belt.

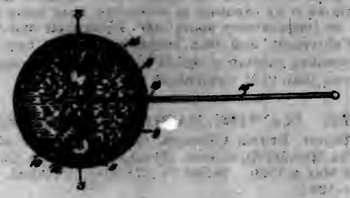
1,396,901. JACK-LEVER CONNECTION. ELON J. VAN FLEET, Joliet, Ill., assignor to William E. Pratt, Chicago, Ill. Filed Nov. 25, 1918. Serial No. 263,981. 1 Claim. (Cl. 254—109.)



A jack lever connection embracing a pivoted lever comprising side walls, means integrally connecting said side walls forming a chamber, a pin rigidly disposed transversely between said side walls to the outside of said means, stops formed on said means, and a slotted handle

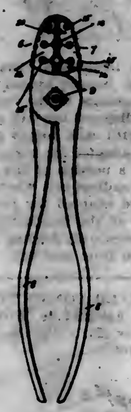
engaged on said pin between said side walls adapted to be longitudinally inserted into said chamber and against said stops, or be pulled out of said chamber and swung at an angle to said lever without requiring detachment from said pin.

1,396,902. TOY. MATTI WAISOLA, Los Angeles, Calif. Filed Apr. 7, 1920. Serial No. 372,062. 1 Claim. (Cl. 46—45.)



A toy, comprising a spherical transparent body completely filled with a liquid, and a weighted figure completely submerged in said liquid, whereby when the body is rolled the weighted figure disposed therein will revolve.

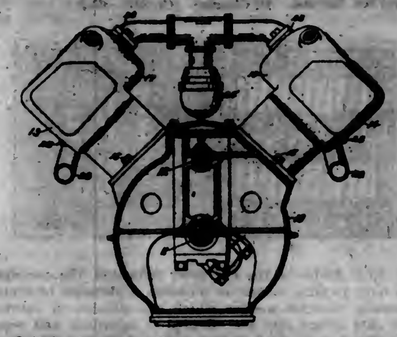
1,396,903. INSULATION-CUTTER. WILLIAM W. WEBER, Sacramento, Calif. Filed July 8, 1921. Serial No. 483,206. 2 Claims. (Cl. 81—9.5.)



1. An insulation cutter provided with jaws having pivoted handles, said jaws having series of opposed channels extending crosswise in their faces and arranged parallel to each other, said channels decreasing in size in proportion to their distance from the pivot of the handles, cutter plates secured to the ends of the jaws and provided with series of cutting edges arranged at the ends of the said grooves and proportioned similarly to them, and series of opposed longitudinal blades arranged in the said channels and secured to the jaws independently of the cutter plates.

1,396,904. HYDROCARBON-MOTOR. D'ORSAY MCCALL WHITE, Detroit, Mich., assignor to Cadillac Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 24, 1916. Serial No. 133,186. 7 Claims. (Cl. 123—52.)

1. In an internal combustion engine, a multicylinder block having a cooling liquid jacket, and a combined intake and exhaust conduit inclosed within said jacket and having a common dividing wall between its passages; said



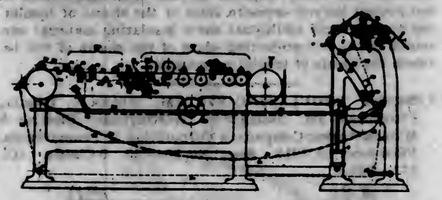
conduit having centrally arranged inlet and outlet openings upon opposite sides of said block.

1,396,905. REVOLVING HARROW. HIRAM J. WILCOX, Placerville, Calif. Filed Dec. 21, 1918. Serial No. 267,799. 4 Claims. (Cl. 55—13.)



1. A harrow including horizontally revoluble harrow members having rockable spoke members, ground treating teeth carried by the spoke members, and means for simultaneously rocking all of the said spoke members.

1,396,906. ENVELOP ROLLER FOLDING-MACHINE, IN COMBINATION WITH A CLOSING-FLAP-GUMMING MACHINE. ALFRED WINKLER and MAX DÜNNEBIER, Neuwied, Germany. Filed Nov. 20, 1919. Serial No. 339,529. 7 Claims. (Cl. 93—68.)

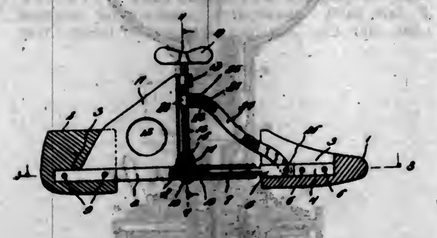


1. In a machine of the class described, the combination of a roller folding mechanism, a crosscut gumming mechanism, a drying way between said mechanisms, means for feeding blanks to said gumming mechanism in step-by-step sequence, means for feeding blanks to said folding mechanism individually, a gum-breaking device between said drying way and said folding mechanism, and means for operating all of said mechanisms at predetermined relative speeds.

1,396,907. ADJUSTABLE SHOE-LAST. JOHN L. WOLF, Logansport, Ind. Filed Jan. 21, 1921. Serial No. 438,912. 1 Claim. (Cl. 12—128.6.)

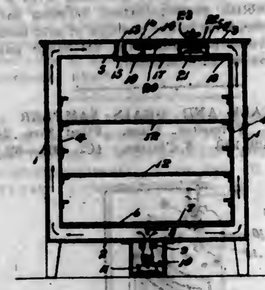
In an adjustable last, a toe section and a heel section, each of said sections having pockets entering from the

confronting ends thereof, a bar having a widened end secured in the pocket of one of the sections and having a rod projecting from the opposite end thereof, a second bar secured in the pocket of the second last section and having a socket to receive the rod, an upstanding plate on the last mentioned bar having lugs on the inner end thereof, an upwardly inclined link pivoted to the bar



of the first mentioned last section, a follower having a threaded opening therethrough and to which the upper end of the link is pivoted, a screw passing through the openings in the lugs of the mentioned plate and through a threaded bore in the follower, means holding the screw against longitudinal movement, and an operating handle at the outer end of the screw.

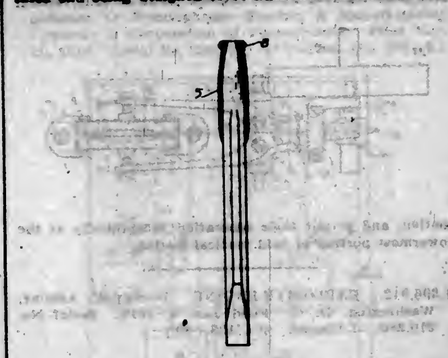
1,396,908. DOUGH-RAISING APPLIANCE. BENJAMIN W. WOLTMAN, Holland, Mich. Filed May 3, 1920. Serial No. 378,580. 2 Claims. (Cl. 126—282.)



1. In a device of the character described, an outer cabinet, an inner oven spaced from the cabinet, a sleeve passing through the tops of the oven and cabinet, said top of the cabinet having an opening therein a short distance from the sleeve, a lever lying closely adjacent to and below the top of the oven and pivotally connected at one end, a valve on the opposite end of the lever directly at the lower end of the sleeve, a second valve connected to the lever and located directly under said opening in the top of the cabinet, a thermostatic expansible and contractible device attached to the lever between its ends, the top of the oven being pressed upwardly to form a cup to receive the device, and means for attaching said device to the cabinet.

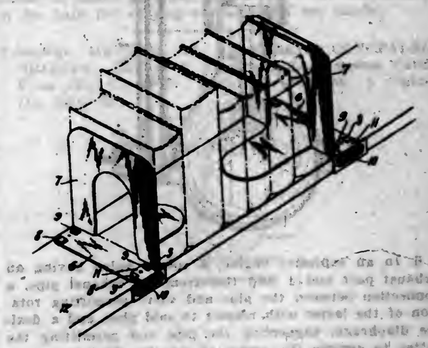
1,396,909. CHIP-CATCHER FOR TOOLS. EDWIN B. ALMATAUM, Grand Island, Nebr. Filed Feb. 12, 1921. Serial No. 444,484. 2 Claims. (Cl. 145—1.)

1. A chip catching device for tools comprising a sleeve of pliable rubber adapted to be engaged upon and to conform to the contour of the sides of a blow receiving or delivering end of a tool, said sleeve having a bore of uniform diameter and being externally tapered whereby its wall will be wedge shaped in longitudinal section, the thick end being designed to be flush with the end of the



tool and the thin end possessing greater pliability whereby to automatically conform to the tool.

1,396,910. BOOK-FRAME AND LABEL-HOLDER. GEORGE A. ANNABLE, New York, N. Y. Filed Feb. 12, 1920. Serial No. 358,180. 4 Claims. (Cl. 40—10.)

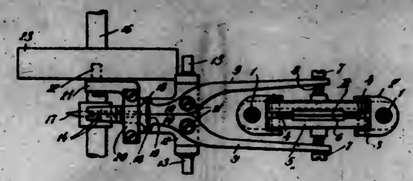


1. In a device of the character described, a metal book frame comprising a base plate and an upstanding portion at substantially right angles thereto, said frame having a slit therein and metal adjacent said slit struck up from the surface of the frame and forming a lug, a label holder including a tongue for engagement beneath said lug, said label holder and a part of said frame having interlocking means for preventing the accidental disengagement of said tongue from beneath said lug.

1,396,911. MEANS FOR INTERMITTENTLY FEEDING THE FILMS IN CINEMATOGRAPHIC APPARATUS. CARLOS ANSELMI and MARCELINO VITURRO, Buenos Aires, Argentina. Filed June 17, 1920. Serial No. 389,751. 3 Claims. (Cl. 88—18.4.)

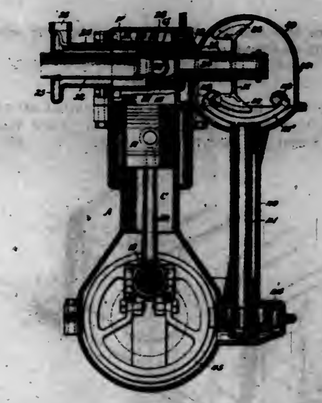
1. In an apparatus for the projection of motion pictures having a film and a projector aperture, means for intermittently feeding the film past said aperture, comprising vertical guides formed integrally with the frame of the projector, a clamping member adapted to slide upon said guides and having a pair of gripping jaws normally maintained apart, a cam coöperating with said clamping member, connections between the cam and clamping member for imparting vertical motion to the clamping

member, and a knife edged eccentric adapted to bring said jaws together at the highest point of said vertical



motion, and permit their separation substantially at the lowermost portion of said vertical motion.

1,396,912. EXPLOSIVE-ENGINE. DORSEY F. ASBURY, Washington, D. C. Filed Jan. 4, 1918. Serial No. 210,280. 7 Claims. (Cl. 123—80.)



6. In an explosive engine, a rotary valve having an exhaust port and a lead therefrom, an exhaust pipe, a connection between the pipe and valve permitting rotation of the latter with respect to said pipe, and a flexible diaphragm supporting the pipe and permitting the latter to assume the center of rotation freely.

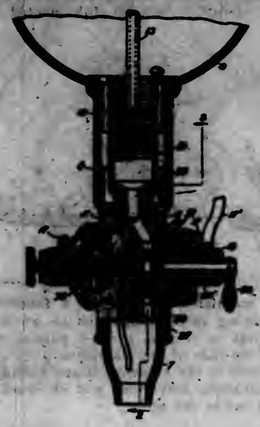
1,396,913. PRODUCTION OF AMINOALKYLESTERS AND OF ALKYLAMINOALKYLESTERS OF PARA AMINOBENZOIC ACID. WALTER BADER, Manchester, England, assignor to Levinstein Limited, Blackley, Manchester, England. Filed Oct. 11, 1917. Serial No. 195,958. 3 Claims. (Cl. 23—24.)

1. The improvement in the production of aminoalkyl and alkylaminoalkyl esters of para aminobenzoic acid, which improvement consists in heating the para aminobenzoic alkylesters with an amino-alcohol in the presence of a small quantity of an aluminium compound of the alcohol acting as catalyzer, substantially as described.

1,396,914. MANUFACTURE OF A WHITE PIGMENT. AUGUSTE LOUIS BARBE, Asnieres, France. Filed Aug. 5, 1921. Serial No. 490,107. 2 Claims. (Cl. 134—58.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. In the production of a white pigment from antimony oxid by treating with alkaline solution, the elimination of any sulfates by blowing a current of air or oxygen through the mixture after the alkaline solution has been added.

1,396,915. COMBINATION DRAFT-ARM. CHARLES L. RAMPLAY and HJALMAR MATHISEN, Chicago, Ill., assignors to The Ramlan Blueing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 2, 1920. Serial No. 427,697. 3 Claims. (Cl. 235—36.)



1. A dispensing device for liquids comprising a casing, a valve chamber in said casing, a fluid supply reservoir communicating with said chamber, a measuring receptacle communicating with said chamber, a discharge passage leading from said chamber, and a rotary cylindrical valve member in said chamber provided with a passage therein to establish communication between said reservoir and said receptacle in one position of said member and between said receptacle and said discharge passage in another position of said member.

1,396,916. SCALE AND GRAIN-SAMPLER. CONRAD R. BENNETT, Worcester, Mass. Filed Nov. 24, 1920. Serial No. 426,190. 6 Claims. (Cl. 265—62.)



1. In a scale, the combination of a casing of a general triangular shape having means at the top for sustaining it from above so that it will hang in a definite position by the force of gravity, a pivot stud near the top of said casing, a weighted arm pivoted on said stud, and having a circular recess in its hub, a ball bearing cage in said recess centered on said stud, a flexible connection depending from said arm and extending down through the casing to a point below it, said arm having an external groove over its top in which said flexible connection rests, said groove passing about the stud from the side on which said arm is located to the other side and gradually increasing in radial distance from the center of the stud, being farther from the center on the side on which the flexible connection depends from it, a scale pan below the casing supported by said flexible connection, said casing being provided with a scale and the arm being provided with a pointer adapted to move over the scale.

1,396,917. PROPELLER FOR AIRCRAFT. ARNO BOERNER, Scheveningen, Netherlands. Filed Mar. 5, 1921. Serial No. 450,113. 2 Claims. (Cl. 170—163.)



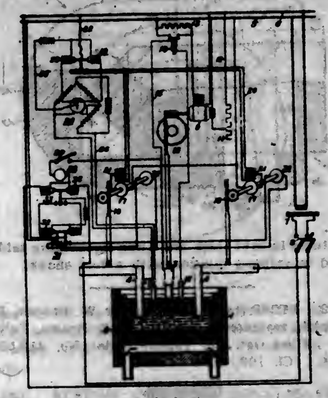
1. In a propeller for aircraft, blades adapted under the influence of centrifugal force to slide radially to the shaft of the propeller and simultaneously to move angularly about an axis transverse to said shaft, springs adapted to act on said blades in opposition to the centrifugal force, and telescoping members on the blades adapted to guide the movements thereof, said members and the springs being located close to and transversed medially by the axis of the propeller shaft.

1,396,918. PROCESS OF MAKING SEAMLESS TUBING. PERRIN H. BRAGG, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 16, 1919. Serial No. 271,548. 2 Claims. (Cl. 29—188.)



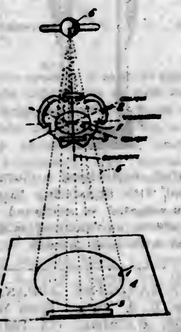
1. The method of forming a lined seamless tube which comprises providing a metallic ingot with a longitudinal bore, filling the bore with a core comprising a sleeve of the metal to constitute the lining of the tube and an inclosed body of a metal having a relatively low melting point, forging the ingot and inclosed core to elongate them and reduce their diameter and melting and removing the relatively low-melting-point metal.

1,396,919. AUTOMATIC OPERATION OF ELECTROLYTIC CELLS. PERRIN H. BRAGG, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 20, 1919. Serial No. 339,509. 17 Claims. (Cl. 204—5.)



1. In a control system for electrolytic cells, the combination with an electrolytic bath, a cathode and an anode, of means governed by changes in the temperature of the bath for varying the action of the anode.

1,396,920. METHOD OF MEASURING CONCEALED OBJECTS. EDWARD E. BROSTROM, Los Angeles, Calif. Filed Jan. 17, 1920. Serial No. 353,360. 1 Claim. (Cl. 250—84.)

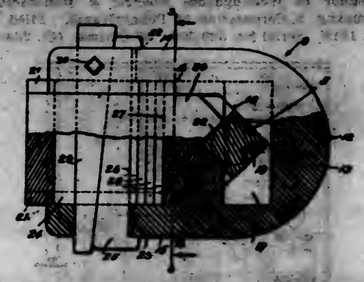


The method of measuring concealed objects or spaces, consisting in disposing the object of unknown dimension in a plane parallel to the sensitive plate, the object to be measured and the plate being at right angles to the general direction of rays issuing from a predetermined common point, setting an object of known dimensions in the same plane as the object of unknown dimensions, making the exposure by means of actinic rays issuing from said point, measuring the distances desired on the negative, dividing such measurements by the dimension of the image on the negative of the object of known dimension, and finally multiplying the result by the dimension of the known object.

1,396,921. DRIVE-CLAMP. ALBERT WALDO BROWN, Fullerton, Calif., assignor to Caroline H. R. Brown, Fullerton, Calif. Filed Oct. 25, 1920. Serial No. 419,558. 4 Claims. (Cl. 61—77.)

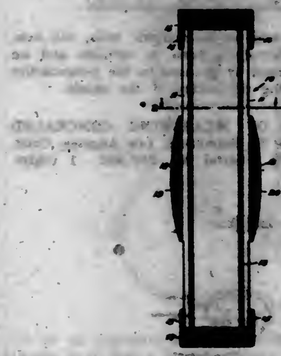
1. A drive clamp, comprising a driving member provided with a head having a pair of oppositely disposed

apertured arms extending therefrom, an apertured block slidably mounted between said arms, and means engaging



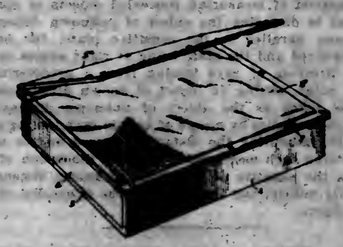
the apertures in said block and arms for holding said block and head in gripped relation with a tool shank.

1,396,922. PUMP-BARREL. ALBERT W. BROWN, Fullerton, Calif., assignor to Caroline M. E. Brown, Fullerton, Calif. Filed Oct. 28, 1920. Serial No. 419,559. 2 Claims. (Cl. 103—59.)



1. A pump barrel, comprising a plurality of segmental members provided with registering threads on their peripheral surfaces adapted to surround a lining bushing, and a threaded sleeve surrounding said segmental members and engaged with said threads.

1,396,923. COIN-HANDLING APPARATUS. STEPHEN JOSEPH BAUNS, U. S. Navy. Filed Mar. 9, 1920. Serial No. 364,503. 6 Claims. (Cl. 133—11.)



1. A coin container, comprising a box into which stacks of coin are packed, and stack separating means arranged to be crushed down on the various stacks to provide keepers preventing coins from high stacks sliding over on lower stacks.

1,396,924. PROCESS FOR PRODUCING COMPOSITE TITANIUM PIGMENTS. ALVAH H. BRUNEAU, Jacksonville, Fla. Filed Oct. 6, 1920. Serial No. 415,556. 7 Claims. (Cl. 134—58.)

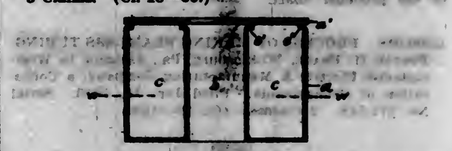
1. The process of obtaining composite titanium pigments which comprises heating together with carbon and sulfur a titanium-bearing material and a solid, inorganic compound of the metal which is to accompany titanium in the pigment, subjecting the resulting salid melt to the action of an acid solvent, precipitating from the resulting solution both titanium and the accompanying metal and subsequently roasting the precipitate.

1,396,925. POWER-TRANSMISSION BELT. ERNEST L. BURRELL, Chicago, Ill. Filed May 9, 1917. Serial No. 167,411. 5 Claims. (Cl. 74—63.)



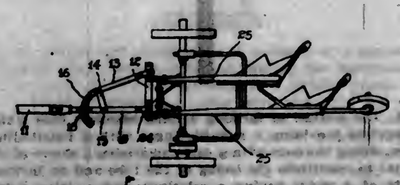
1. A power transmission belt, comprising two superimposed plies of fabric firmly secured together by cement, one ply consisting of coarse woven strands, and the other consisting of fine woven strands, said plies being of substantially equal thickness so as to locate the juncture between them in a neutral position between the compressional and tensional strains to which said belt is subjected when in use.

1,396,926. FLOAT OR VALVE REGULATOR AND METHOD OF MAKING THE SAME. CHARLES F. BURGESS, East Orange, N. J., assignor to Composition Machinery Corporation, Newark, N. J., a Corporation of New Jersey. Filed Jan. 26, 1920. Serial No. 353,096. 3 Claims. (Cl. 18—59.)



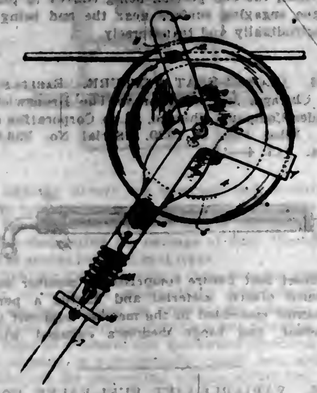
1. A hollow carbureter float molded of plastic composition with an annular chamber, and an annular cover of such plastic composition pressed into integral union with the upper edges of the chamber, the finished float having an open central channel upon the axis of the annular chamber, as and for the purpose set forth.

1,396,927. TRACTOR-HITCH. WILLIAM L. CANNIFF, Janesville, Wis., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed May 3, 1919. Serial No. 294,472. 6 Claims. (Cl. 213—67.)



1. In a draft device of the class described, a cross bar; a draft bar the rear end of which is pivotally connected with said cross bar adjacent one end thereof; an adjusting bar the rear end of which is pivotally connected with said cross bar adjacent the other end thereof; a link pivotally connected with said draft bar and with which link the forward end of said adjusting bar is pivotally connected; a curved adjusting segment, formed integrally with said link and having a series of spaced holes each of which may be made to register with a hole in said draft bar; and two series of holes in said cross bar and located one series adjacent each side thereof.

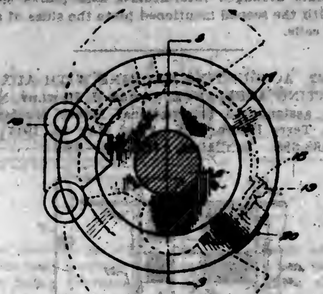
1,396,928. TROLLEY-POLE. ARTHUR W. CARROLL and GEORGE P. STONEARD, Seattle, Wash. Filed Mar. 9, 1921. Serial No. 450,900. 1 Claim. (Cl. 191—78.)



A trolley wire replacer, comprising a member pivotally supported upon a trolley wheel axle beyond the harp and having pairs of arms extending radially from the pivot and substantially equi-distant from each other, one pair of arms in normal position extending upwardly and forwardly and beyond the periphery of the trolley wheel to form guides, a second pair of arms projecting downwardly and forwardly adjacent the trolley pole, a bar secured to the trolley pole below the arms, and springs connecting the second pair of arms with the bar, and a third pair of arms extending rearwardly and downwardly and connected beyond the periphery of the trolley wheel to form a balance and stop to hold the member in normal operative position when the springs become disconnected, and also to cause the simultaneous operation of all the pairs of arms.

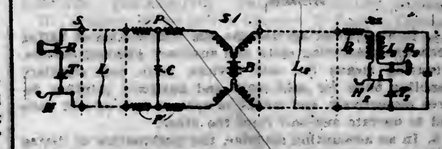
1,396,929. PNEUMATIC GUN. ALEXANDER CHRISTIE, Seattle, Wash. Filed May 1, 1919. Serial No. 293,933. 1 Claim. (Cl. 121—32.)

In a pneumatic tool the combination of a gun body provided with a central bore and a port communicating at opposite ends with said bore, a hammer mounted in the bore and being of such length as to be between the open ends of the port when in one position, a bit retaining member, the end wall of which is spaced from the end of the body to form a chamber, the end wall of the member having an opening, a bit operatively mounted in the gun body and extending through said opening in the member and having an annular shoulder confined in the chamber and its inner end disposed in the bore to be operated by the hammer and oppositely disposed resilient members secured to the bit retaining member, each member extending inwardly toward the bit and inclining away from the end wall of the body and terminating in a reboat end portion, the inner terminals of the rebent portions being in the path of movement of the flange, whereby when the pressure is exerted on the tool to operate same the fluid will be admitted to reciprocate the hammer, movement of the latter in one direction positioning the flange to one side of and out of contact with the resilient members, and whereby if normal pressure on the tool be removed the hammer will be drawn beyond one open end of the



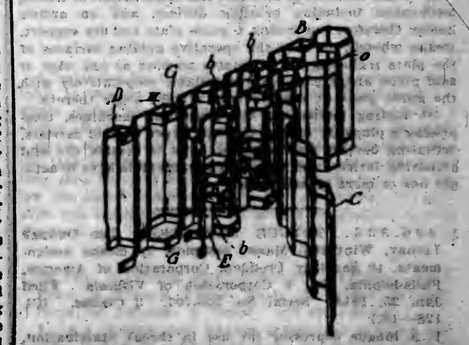
port and cut off the fluid and will project the bit to force its flange beyond the rebent ends of the resilient members and thereby hold the bit and the hammer in inactive position.

1,396,930. SYSTEM FOR THE EQUALIZATION OF TRANSMISSION-LINES. RASCHEST OBERARDI, Bayhead, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 27, 1917. Serial No. 209,116. 20 Claims. (Cl. 178—44.)



12. In a telephone system, a central station, a plurality of outlying stations, telephones at said outlying stations, lines of differing lengths extending from said central station to each of said outlying stations, a common source of battery supply current at said central station for energizing said telephones, and means to prevent a greater transmission of voice currents over short lines than over long lines.

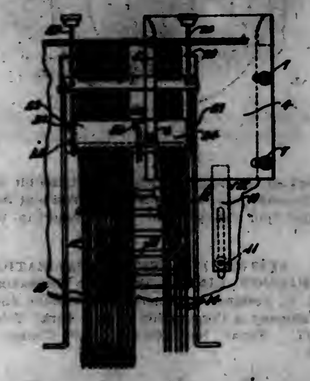
1,396,931. RADIATOR. OTTO J. GROEHN and FREDERICK L. ALLEN, Detroit, Mich., assignors to Briscoe Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 5, 1915. Serial No. 19,255. 9 Claims. (Cl. 257—130.)



1. In a radiator, a section composed of a plate stamped to form some of the sides of a row of cells, said plate having

struck-out portions adjacent its forward edge shaped to complete the sides of said row of cells, a second plate also shaped to form some of the sides of a row of cells, and a third plate arranged intermediate said plates shaped to form with the second mentioned plate the sides of a second row of cells.

1,396,982. ACCOUNTING-MACHINE WITH AUXILIARY PRINTING APPLIANCE. Amos H. Hawley, Norwood, Ohio, assignor to International Money Machine Company, Terre Haute, Ind. Filed May 15, 1917. Serial No. 168,688. 14 Claims. (Cl. 235—58.)



1. In an accounting machine, the combination of listing mechanism including main and auxiliary printing devices, actuating means for said devices, main and auxiliary disabling bails for said main and auxiliary printing devices respectively, and means to operate each of said bails and to operate one bail from the other.

6. In an accounting machine, the combination of listing mechanism including printing devices, said devices comprising type-carriers and types thereon, type hammers, hammer drivers for said hammers, catches to set and fire said drivers, engaging means between the catches and drivers, a disabling bail to engage the catches and prevent action thereof on the drivers, and a key to actuate and hold the bail operative.

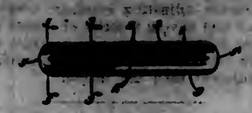
7. In an accounting machine, the combination of listing mechanism including printing devices, and an article holder therefor comprising a guide plate and its support, means to adjust the plate on the support, and means whereby to vary the operative guiding surface of the plate, both transversely and longitudinally.

9. In an accounting machine, the combination of listing mechanism including printing devices, and an article holder therefor, comprising a guide plate and its support, means whereby to vary the operative guiding surfaces of the plate including an adjustable member at one edge of said plate, and a gage plate adjustable coöperatively with the guide plate at substantially a right angle thereto.

10. Listing mechanism for accounting machines, comprising a plurality of type carriers, types on said carriers, actuating devices for the types, bails to disable the said actuating devices, and independently operable keys to actuate one or more of said bails.

1,396,932. TONGUE-DEPRESSOR. Leo Dunbar Jacoby, Winthrop, Mass., assignor, by mesne assignments, to Sanitary Products Corporation of America, Philadelphia, Pa., a Corporation of Virginia. Filed Jan. 25, 1918. Serial No. 213,707. 3 Claims. (Cl. 128—16.)

1. A tongue depressor for use in throat examination, composed of an integral sheet having a central longitudinal flat base portion which extends for the greater part of the length of the article, upwardly inclined side portions merging from said base portion, inwardly extending outwardly curved side flanges extending in continuation of said upwardly inclined sides, said base portion terminating at each end in an upwardly curved portion of less



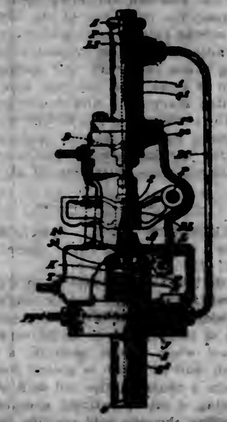
height than the side portions and which merges on a curve into said upwardly inclined and outwardly curved flange side portions, the end portion being convex in plan view, the tongue engaging surface near the end being convex both longitudinally and transversely.

1,396,934. CLOSET-SEAT FIXTURE. Earldley C. B. Juno, Chicago, Ill., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed Feb. 6, 1920. Serial No. 356,609. 3 Claims. (Cl. 4—13.)



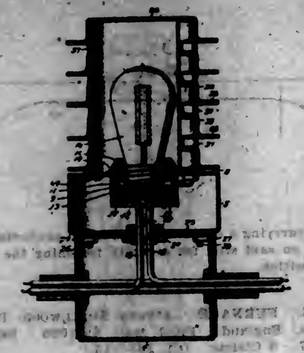
1. A closet seat fixture comprising a member composed of hardened plastic material and having a perforated metal channel embedded in the member adjacent the rear edge thereof, and hinge members engaged with said channel.

1,396,935. VARIABLE-LIFT FUEL-VALVE FOR OIL-ENGINES. Karl Otto Kellen, Durham, England, assignor of one-half to Robert Pile Dunford, Pallion Yard, Sunderland, England. Filed Jan. 24, 1920. Serial No. 353,874. 9 Claims. (Cl. 123—32.)



1. In an oil engine, a fuel valve having a maximum opening movement, means capable of causing said valve to open to said maximum extent, said means being initially and finally effective at unchanging points in the crank-pin path in successive revolutions of the engine for producing intervals lasting through an unchanging angular extent of said path between the opening and closing of the valve, and means for variably limiting the extent of opening movement thereof, said means comprising twin levers coöperating with said valve, and an eccentric for changing the position of said levers, substantially as described.

1,396,936. LIGHTING-FIXTURE. Albert R. Locke, Chicago, Ill. Filed Oct. 18, 1919. Serial No. 331,623. 12 Claims. (Cl. 240—11.)



1. A lighting fixture for securing and directing light having in combination a plurality of spaced rings forming a lamp housing, a lamp socket within the housing, and a screen for obstructing the passage of light through a portion of the spaces between said rings.

4. A lighting fixture having a lamp housing formed of a plurality of separate substantially non-reflecting rings held in spaced relation to prevent the passage of light therebetween in a vertical direction but allowing the passage of light in a lateral and downward direction, a cover for the housing, a substantially closed box, and means within the box for supporting a lamp within the housing.

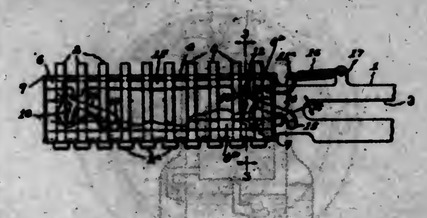
1,396,937. SUNDIAL. Clyde D. Love, Coshocton, Ohio. Filed Oct. 27, 1920. Serial No. 420,025. 7 Claims. (Cl. 33—62.)



1. A sun dial including a gnomon, a substantially flat dial associated therewith, and a pivot bolt upon which the dial is adjustably mounted, the axis of the pivot bolt being parallel to the shadow casting edge of the gnomon.

1,396,938. TYPE-CARRIER. Elton L. Lutz, Reading, Pa., assignor to International Money Machine Company, Reading, Pa., a Corporation. Filed Sept. 23, 1920. Serial No. 412,905. 12 Claims. (Cl. 235—58.)

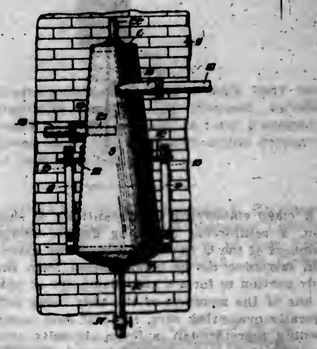
1. The combination with a type carrier body and a series of movably mounted type members carried thereby, of means including a single spring element for normally holding the type members yieldably in inoperative position, said type members being adapted to be brought individually into position to print.



3. The combination with a type carrier body and a series of movably mounted type members thereon, said type members being provided with shoulders, of a yieldably mounted retracting bar engaging the shoulders of the several type members to hold them normally in inoperative position, said type members being adapted to be brought individually into position to print.

10. The combination with a type carrier body and a series of movably mounted type members thereon, of a retaining plate fitted over the type members to hold them in position, and coöperating interlocking tongues and cut away portions at each end of the retaining plate and adjacent portions of the type carrier for detachably holding the retaining plate in position upon the type carrier body.

1,396,939. SEPARATOR. Frank W. Miller, Chicago, Ill., assignor of one-half to Clarence D. Bauers, Chicago, Ill. Filed Oct. 7, 1918. Serial No. 257,120. 1 Claim. (Cl. 183—83.)

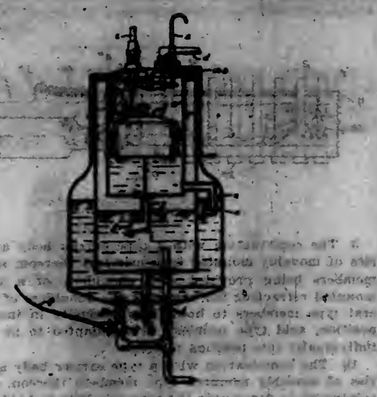


A separator for blow-off steam and water, comprising a tank having its upright walls diverged downwardly, a steam outlet pipe leading from the top of the tank, a sludge off-take pipe leading from the bottom of the tank, a steam and water inlet pipe discharging tangentially into the tank adjacent the top thereof, and a clean water off-take pipe disposed above the middle of the tank and below the steam and water inlet pipe and having its open inlet end located substantially at the longitudinal axis of the tank.

1,396,940. VACUUM FUEL-FEEDING SYSTEM. Frederick D. Nelson, Detroit, Mich. Filed Feb. 18, 1921. Serial No. 445,964. 5 Claims. (Cl. 158—46.5.)

1. In a vacuum feel feeding system for internal combustion engines in combination with the vacuum chamber, a gravity feed chamber discharging into the carburetor,

and gravity feed chamber provided with a nozzle with adapted to receive fuel, a discharge conduit leading from



said located wall chamber to the discharge means leading from the gravity feed chamber to the carburetor.

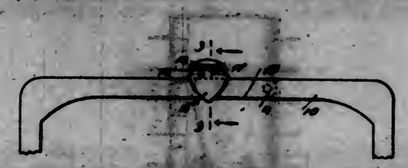
1,396,941. CLASP. ADOLPH PFEIFFER, Chicago, Ill. Filed Aug. 28, 1920. Serial No. 405,369. 1 Claim. (Cl. 24—248.)



A clasp embodying a substantially U shaped body portion, a reinforcing fastening device connected with the members of the U to extend across the space therebetween, said fastening device being spaced from the bend of the body portion to form a suspension eye or opening, portions of one of the members of the body being deflected to form laterally projecting ears, the last said member having an opening therethrough, a lever pivotally mounted between the said ears, a plurality of spaced toothed members carried by and projecting from the lever and extending transversely across the lever, said toothed members being adapted to project through the said opening to cooperate with the other member of the body portion, corrugations extending transversely of the last recited member and with which corrugations the toothed members cooperate, and a catch carried by the said lever and adapted to cooperate with an edge of one of the members of the body portion for yieldingly locking the lever against movement with respect to the said body.

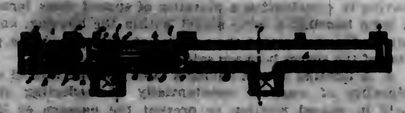
1,396,942. CLASP-FASTENER FOR HANDBAGS AND THE LIKE. EARNER C. SCHMOZEMA, New York, N. Y., assignor to Kearney Comb & Novelty Co., Kearney, N. J., a Corporation of New Jersey. Filed June 22, 1920. Serial No. 390,800. 4 Claims. (Cl. 292—262.)

1. In a clasp fastener for hand bags and the like, a pair of supporting members, one member of which carries a pivotally mounted clasp having depending sides and a rounded head with a locket therein, the other of said



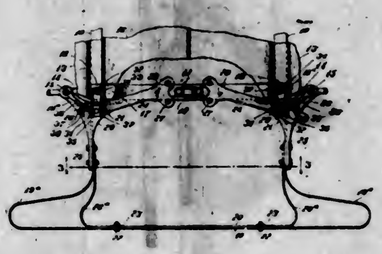
members carrying a cooperating stud, and projecting spring elements on said stud for securely fastening the clasp in closed position.

1,396,943. FURNACE. ALFRED SMALLWOOD, Highgate, London, England. Filed Mar. 8, 1920. Serial No. 364,267. 8 Claims. (Cl. 263—15.)



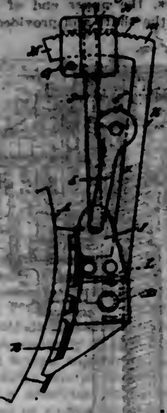
1. A furnace, including an elongated working chamber, a sectionalized recuperator system arranged below said working chamber and means for admitting waste gas from different portions of said working chamber to said recuperator system at a plurality of points in the length of the furnace, the waste gas in the recuperator system flowing in opposed directions.

1,396,944. AUTOMOBILE-BUMPER. FRANK TOMASEK, Chicago, Ill. Filed July 5, 1921. Serial No. 482,423. 7 Claims. (Cl. 293—55.)



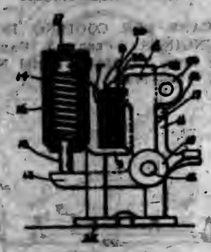
1. An automobile bumper comprising two bumper bars secured together intermediate their extremities with capacity for relative movement and having their ends bent rearwardly to provide attaching arms, and means for securing said bumper bars to the automobile comprising two bumper bar supports, each of which is formed with an arm adapted to be bolted to the framing of an automobile, an arm to which the adjacent extremities of said bumper bars are rigidly attached, and an arm adapted to be attached to the mud guard bracket of the automobile.

1,396,945. [illegible]. [illegible], Trafalgar, Ill. Filed Sept. 23, 1920. Serial No. 411,668. 6 Claims. (Cl. 292—332.)



1. The combination with a trunk head and a hanger therefor, of a gravity-dog, and cooperating means for yieldably holding said head in angular adjustment to said hanger determined by the bearing of the head on the wheel.

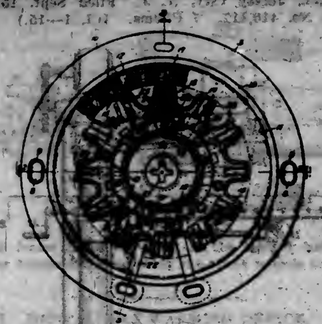
1,396,946. DOUBLE AUTOMATIC LATCH FOR SWITCH-STANDS. FRANK C. ANDERSON, Cincinnati, Ohio, assignor to The American Valve & Meter Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 15, 1919. Serial No. 338,338. 2 Claims. (Cl. 70—128.)



1. A double automatic latch comprising a stand having a slot therein adapted to receive a switch stand lever and also a slot adapted to receive a keeper for said switch stand lever, a spring pressed plunger mounted in elevated position on one side of the switch stand lever slot and a keeper for said switch stand lever on the opposite side of the switch stand lever slot from said plunger and having a finger thereon extending through a slot therefor and adapted to engage the lower end of said spring pressed plunger whereby said keeper is adapted to be automatically opened and closed when said switch stand lever is moved past said keeper in either direction.

1,396,947. DYNAMO-ELECTRIC MACHINE. VINCENT G. APPLE, Dayton, Ohio. Original application filed Apr. 28, 1917, Serial No. 163,803. Divided and this application filed Feb. 14, 1918. Serial No. 217,150. 14 Claims. (Cl. 171—231.)

4. An end plate, for a dynamo electric machine, of insulating moldable material having a plurality of circumferentially disposed grooves for the commutator brushes shield thereto and having a spring holding cavity within



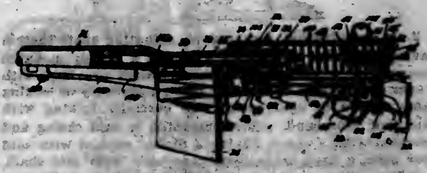
which to contain a spring to hold the respective brush in contact with a commutator.

1,396,948. COMMUTATOR-BRUSH. FRANK L. COOLEY, Brooklyn, N. Y. Filed Jan. 6, 1921. Serial No. 435,240. 12 Claims. (Cl. 171—328.)



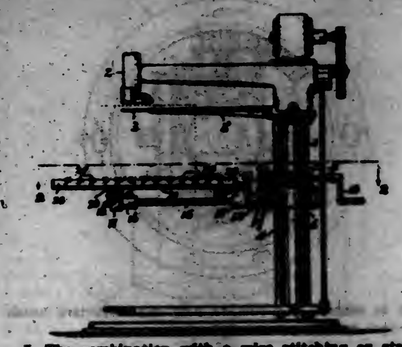
1. A commutator brush comprising a main body composed of substantially longitudinally disposed metallic strands compressed together laterally to form a comparatively homogeneous mass, and a metallic casing surrounding the sides of said main body.

1,396,949. AUTOMATIC GUN. THEODORE H. EICKHOFF, Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 8, 1920. Serial No. 408,912. 38 Claims. (Cl. 42—3.)



1. A gun comprising a receiver, breech closing mechanism adapted to reciprocate in the receiver, the breech closure comprising a non-rotating bolt and a rotating sleeve thereon having lugs adapted to engage with lugs in the receiver, the engaging angle between the sleeve lugs and the lugs in the receiver being inclined to the line of breech pressure at such angles as to hold the breech closing mechanism in closed position at high breech pressure and to slide relatively to each other when the pressure drops to a low value whereby the breech closure is automatically unlocked.

1,396,860. WORK-SUPPORTING MEANS FOR WIRE STITCHING OR STAPLING MACHINES. Edwin A. Flavell, Jersey City, N. J. Filed Sept. 18, 1920. Serial No. 410,417. 7 Claims. (Cl. 1—15.)



7. The combination with a wire stitching or stapling machine and its anvil arm of a work supporting means, comprising a rectangular frame having a plurality of longitudinally spaced transverse idler rollers, means for carrying said frame, means for pivoting the inner end of said frame relative to said carrying means so that its free end is laterally movable in horizontal plane, means rendering the pivoted end of said frame yieldingly depressible, and means for vertically adjusting said carrying means toward or away from said anvil arm.

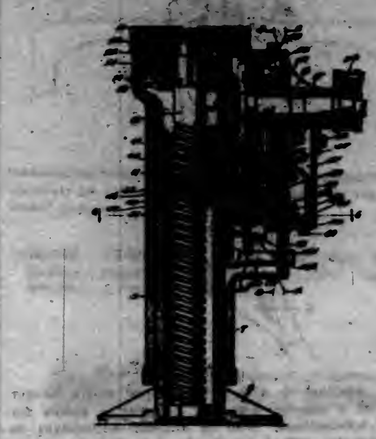
1,396,861. LIFTING-JACK. William Herbert Fowkes, Chicago, Ill., assignor to Buda Company, a Corporation of Illinois. Filed Mar. 8, 1919. Serial No. 281,288. 5 Claims. (Cl. 188—196.)



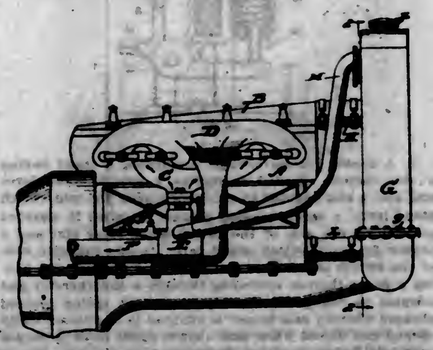
2. In combination, a casing, an actuating shaft therein having a ratchet mechanism including a loosely mounted gear wheel, a pinion in mesh therewith provided with a spur gear having an annular band, a plurality of locking cams carried by said casing and normally locking with said spur gear band, a shaft mounted in said casing and provided with a sleeve having a pinion meshed with said spur gear, a fixed brake band concentric with said shaft, a rotary disk carried by said sleeve and pivotally provided near its margin with a plurality of lever brake shoes designed to flexibly engage said fixed brake band as the disk rotates, said locking cams being provided with a manually operated lever extending through said casing.

1,396,862. LIFTING-JACK. William Herbert Fowkes, Chicago, and Merl J. Harkless, Harvey, Ill., assignors to The Buda Company, a Corporation of Illinois. Filed Oct. 27, 1919. Serial No. 333,486. 11 Claims. (Cl. 254—113.)

1. In a lifting jack, the combination with a standard, a sleeve movable thereon, and lifting mechanism for said sleeve including an actuating shaft rotatable in one direction during the lifting movement of the sleeve and in the reverse direction during the lowering of the sleeve, of mechanism for automatically controlling the lowering of the sleeve comprising a pair of fixed inner and outer vertically disposed plates, the upper end of the inner plate positioned adjacent the shaft and provided with an annular braking surface, a train of speed multiplying gearing carried by said plates and said shaft and operable during reverse rotation of the shaft, and a revolvable disk driven by the high speed member of said gearing and provided with a plurality of pivoted arms having weights at their free ends adapted to frictionally engage said braking surface during disk revolution.



1,396,863. MEANS FOR COOLING INTERNAL-COMBUSTION ENGINES. Perry J. Garrison, Oxford, Mich. Filed Sept. 22, 1919. Serial No. 325,321. 4 Claims. (Cl. 123—174.)



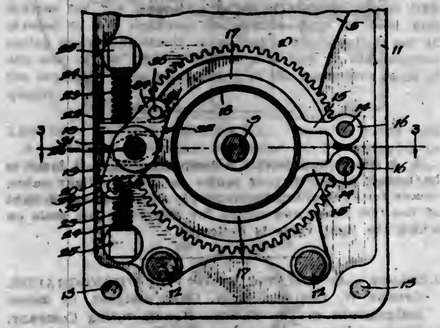
1. The combination with an internal combustion engine, of a water chamber, suitable pipe connections between the water chamber and the water jacket of the engine to provide for a circulation of water therethrough, and a pipe having an open end sleeved within the water return connection between the water tank and the water jacket of the engine, the other end of the pipe being open to the outer air to admit the air therethrough into said water pipe connection and thence to the water jacket of the engine.

1,396,864. MEANS FOR OPERATING POWER-TRANSMITTING. Dawn S. Gibson, Minneapolis, Minn., assignor of one-third to Arthur D. Cole, Minneapolis, Minn. Filed Nov. 20, 1916, Serial No. 132,262. Renewed Mar. 26, 1921. Serial No. 456,965. 5 Claims. (Cl. 74—26.)



1. Apparatus of the class set forth, comprising, in combination, a revolvable driving element, a revolvable driven element, transmission mechanism interposed between said parts comprising a friction gear couple having one member attached to said driving element and the other slidable and revolvable independently of said first member and connected with said driven member to revolve the latter in one direction, a clutch interposed between said driving and driven members, a revolvable pinion slidably disposed between and adapted by sliding movement to disconnect said clutch, spread said gear members and transmit reverse motion from one gear member to the other after said clutch has been disconnected, and means for sliding said pinion.

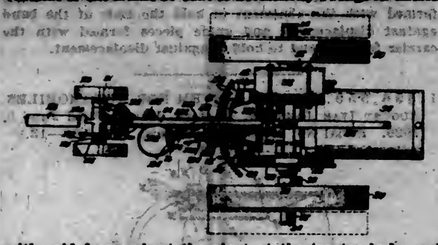
1,396,865. BRAKE MECHANISM FOR LIFTING-JACKS. Merl J. Harkless, Harvey, Ill., assignor to The Buda Company, a Corporation of Illinois. Filed Oct. 27, 1919. Serial No. 333,484. 7 Claims. (Cl. 188—166.)



4. In a brake mechanism for jacks, the combination of a support, a rotatable member mounted therein and provided with an annular braking surface, a pair of brake members mounted on said support in position to embrace said annular braking surface, means for yieldably urging said braking members into engagement with said braking surface, means for moving said members into inoperative position against the force of said yielding means, and means for positively holding said brake members in braking relation with said surface.

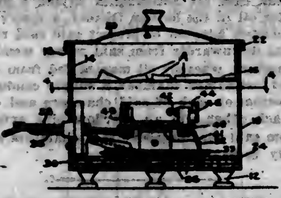
1,396,956. TRACTOR. Primm R. Hawthorne, Milwaukee, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 8, 1919. Serial No. 321,903. 9 Claims. (Cl. 180—12.)

1. In mechanism of the class described, the combination of a tractor body including power plant and wheels, a frame pivoted on the tractor body extending therefrom, truck wheels normally supporting the free end of said frame, means for selectively varying the angularity of the frame with the tractor body, vertically adjustable means rigidly attaching the relatively long rigid tongue (or the like) of a vehicle in raised angular position in a plane vertical to the frame so that it necessarily swings in unison



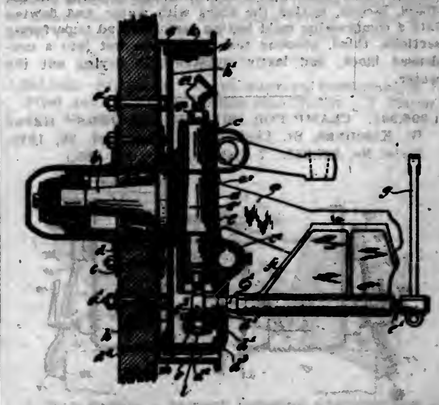
with said frame about the pivot at the tractor body, and means for temporarily elevating the truck wheels from the ground.

1,396,957. DENTAL WAX-WARMING DEVICE. Jay A. Heidbrink, Minneapolis, Minn. Filed Nov. 19, 1919. Serial No. 339,162. 6 Claims. (Cl. 219—44.)



1. A dental wax warming device comprising a cup-shaped member forming an inclosed chamber, a reticulate member in said chamber for supporting the wax, a heating element associated with the bottom of said chamber, and a thermostat between the heating element and the support having connection with the heating element for controlling the action of the element and the temperature in the chamber.

1,396,958. WHEEL-BRAKE. Alexander Griswold Herrshoff and Alexander Lucand, New York, N. Y., assignors to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 24, 1920. Serial No. 368,209. 6 Claims. (Cl. 188—194.)



5. In combination with a steering vehicle wheel and steering knuckle, a brake drum carried on the wheel, an open ended internally expanding brake band therefor, a carrier for the band secured to the knuckle, an abutment carried with the knuckle and resting between the ends of the band, an arm pivoted to one end of the band, a cam piece mounted at the other end of the band and engaged



1. A mould over the mouthpiece having a plurality of chambers for oil in the bottom thereof, a receptacle for oil, a rotary member adapted to register with said receptacle, a pipe leading from said receptacle to each of said chambers, a valve in each of said chambers, a rod connected with said valve, a cam on said rotary member adapted to engage said rod to open said valve and permit oil to flow from said receptacle through said pipe into the bottom of each of said chambers and separating them to each other, and means for withdrawing the moulds vertically from said chambers and for moving said chambers downwardly to [illegible]

1,396,960. MACHINE FOR SEPARATING CRUSHED CRYSTALS AND FRAGMENTS. Thomas C. Sharpe, Memphis, Tenn. Filed Dec. 17, 1919. Serial No. 345,555. 4 Claims. (Cl. 85—61.)

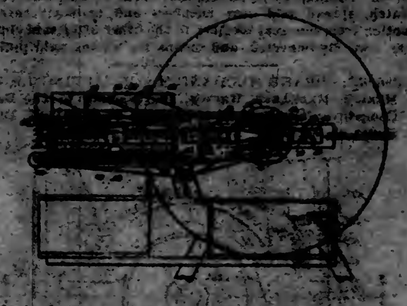


2. The end of forming elements having their inner bodies, which combine to form tapering and frustoconical tips, second, mixing the fibers with water, and forcing into a continuously moving mould having parallel and imperforate sections, third, pressing the semi-solid wet body into a condensed block, and lastly, substantially drying out the water.

1,396,961. CLAMP FOR FREIGHT-CARRIERS. Henry W. Kirchner, St. Louis, Mo. Filed Sept. 29, 1919. Serial No. 327,252. 7 Claims. (Cl. 105—368.)



1. The combination of a carrier having a supporting floor which has perpendicular side edges extending thereupwardly substantially, a combination sash bar, and a reinforcing member mounted on the side of said sash bar and extending over the edge of said floor and engaging therewith, having means on its lower end for engaging the perpendicular side edges of the floor at any place.



1. A photometer having a comparison light, a lamp to be tested, a plurality of resistances for different light values, means for controlling the intensity of the standard light of the test lamp, and means for indicating the scale on which the light value is indicated.

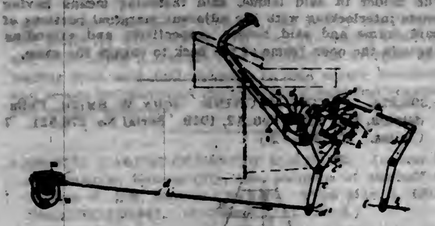
1,396,962. AUTOMATIC STOP FOR PHOTOGRAPHER. Gordon W. Kershaw, Troy, Ohio, assignor, by mesne assignments, to The Thomas Manufacturing Company, Dayton, Ohio, a Corporation of Ohio. Filed Nov. 5, 1915. Serial No. 59,944. 8 Claims. (Cl. 128—2.1.)



2. An automatic stop for photographic cameras, a pivotally mount, a movable plate, a variable arc shaped portion of said movable plate and projecting through there where said stationary plate, a plurality of stops, a pro-

jection, carried by said set lever and extending between said stops whereby said lever is limited in its movements in both directions, an substantially horizontal trip lever pivoted to said movable plate below said set lever, a shoulder on said trip lever adapted to engage the end of said set lever, a stop lever loosely engaging said trip lever, a spring attached to said trip lever at one end and to said set lever at its other end, and means whereby when said projection engages one of said stops by virtue of the movement of said set lever in one direction said shoulder disengages the lower end of the stop lever thereby permitting said spring to rock said trip lever and cause said stop lever to be actuated.

1,396,965. FOUR-WHEEL BRAKE EQUALIZER. Alexander Lucard, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 11, 1920. Serial No. 364,807. 3 Claims. (Cl. 188—46.)



1. In combination with brake operating devices for the front and rear wheels of a vehicle, means to equalize the braking efforts therebetween including an equalizer bar and connections between said bar and said brake operating devices for the respective pairs of wheels, a pull link pivoted to said equalizer bar intermediate its ends, and spring means adjustably connected to the equalizer bar at one side of the line of pull of said link to differentiate the braking efforts transmitted to the respective pairs of wheels.

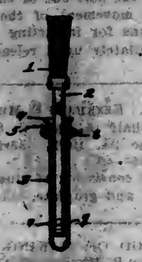
1,396,966. MOTOR-MOUNTING. Edmund Lyon and Anthony F. Williams, Rochester, N. Y., assignors to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 25, 1919. Serial No. 273,956. 4 Claims. (Cl. 64—63.)



1. A motor-mounting comprising: a wedge-like cradle shaped to receive a motor and provided with a bearing-surface circularly curved about an axis eccentric to but parallel with the axis of the motor-shaft; a support for said cradle, having a bearing-surface cooperating with the bearing-surface on the cradle; and means for retaining the cradle against the longitudinal movement on said support.

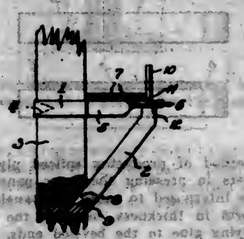
1,396,967. DRIP-CUP ATTACHMENT FOR BRUSHES. Christian A. Hellmann, Glendale City, Mo. Filed Apr. 25, 1921. Serial No. 464,873. 4 Claims. (Cl. 15—98.)

1. The combination with a brush having a handle, of a sleeve sheath removably receiving said handle and having a tapered pointed sheath near its lower end, and means for rigidly securing the upper end



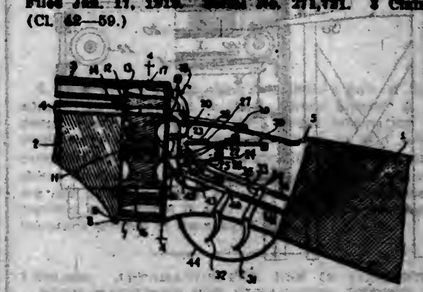
of the sheath to, but spaced from the upper end of said handle.

1,396,968. SCAFFOLD-SUPPORT. David B. Mendes and James Kelly, Detroit, Mich. Filed Feb. 13, 1920. Serial No. 358,554. 1 Claim. (Cl. 304—33.)



A scaffold bracket comprising arms having hook shaped ends adapted to engage in the rear wall of an upright, said arms converging and terminating at their other ends in flat apertured heads one extending on the other, a leg adapted to have its lower end engage in the front wall of said upright, a post on said leg extending through the heads of said arms and permitting said heads to rest on the upper end of said leg, said post adapted to cooperate with the upright in preventing lateral displacement of planks on said arms, and means carried by said post above the arm heads to hold the arm heads thereon.

1,396,969. FIREARM. Peter Martino, Providence, R. I. Filed Jan. 17, 1919. Serial No. 271,731. 8 Claims. (Cl. 42—50.)



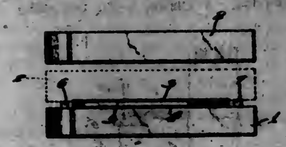
2. In a firearm, a hammer embodying a pivoted arm, a trigger, a bolt connected with the trigger for horizontal sliding movement, a coiled spring arranged in axial alignment with said bolt, said spring having one end fixed and its opposite end connected with the bolt for normally holding the latter retracted, the said arm being pivoted between its ends and arranged substantially at right angles to said bolt, the lower end of said arm being disposed in

the path of movement of said bolt, whereby the latches is cocked upon the bolt be moved in a forward direction, means for moving the bolt out of engagement from said arm, upon further movement of the bolt in a forward direction, and means for imparting the firing stroke to the hammer immediately upon release of the arm from said bolt.

1,396,970. PAINT. Bernhard F. Muns, Milwaukee, Wis., assignor of one-half to Emil C. Schoene, Milwaukee, Wis. Filed June 24, 1921. Serial No. 480,199. 4 Claims. (Cl. 134—45.)

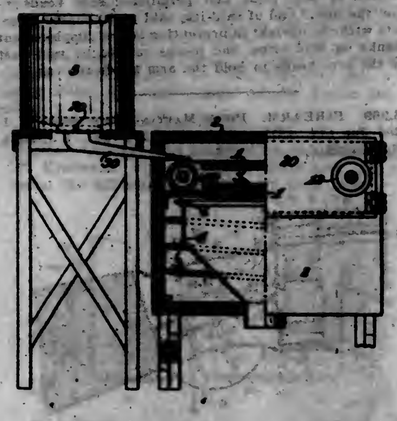
4. A metal paint consisting of glucose, sodium silicate, oxid of manganese and graphite.

1,396,971. METHOD OF MAKING LONG PLY-WOOD PANELS. George R. Metzgood, Chicago, Ill., assignor to Hasbelite Manufacturing Corporation, a Corporation of New York. Filed Nov. 12, 1920, Serial No. 423,824. Renewed Sept. 23, 1921. Serial No. 502,627. 5 Claims. (Cl. 144—309.)



1. The method of producing spliced ply-wood panels which consists in pressing sheets or panels in presses with spacers interposed to cause the panels to be accurately uniform in thickness, bevelling the ends of two panels, applying glue to the beveled ends, and pressing the beveled ends together to set the glue.

1,396,972. CONTINUOUS FREEZER. John F. Fenton, Seattle, Wash. Filed June 2, 1920. Serial No. 386,116. 2 Claims. (Cl. 62—114.)



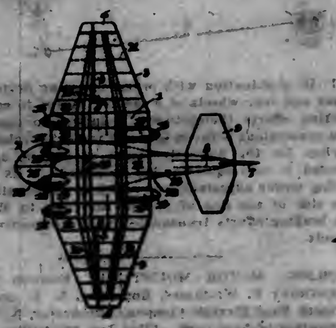
1. A continuous freezing apparatus for liquids comprising a casing, a section at one side of the casing being hinged to swing outward, an endless belt supported from said swinging section, refrigerating pipes within the casing and adapted to extend between the outside of the runs of the belt, a tank, a delivery spout extending from the tank to discharge upon the belt, and a scraper at the under side of the belt.

1,396,973. BRUSH. Thomas A. Pendergrass, Chicago, Ill., and Stanley T. D. Slamecka, Brooklyn, New York, N. Y., assignors to Stanley Brush Company, Chicago, Ill., a Corporation of Illinois. Filed June 20, 1921. Serial No. 479,082. 5 Claims. (Cl. 15—90.)



1. A brush, comprising a back in the form of an open frame, a separate bristle holder fitting in said frame, and means independent of said back and holder for fastening the holder in said frame, said fastening means having parts interlocking with the adjacent marginal portions of said frame and said holder, respectively and extending through the open frame of the back to engage the same.

1,396,974. FLYING-MACHINE. John W. Smith, Philadelphia, Pa. Filed Feb. 12, 1919. Serial No. 276,521. 7 Claims. (Cl. 244—2.)



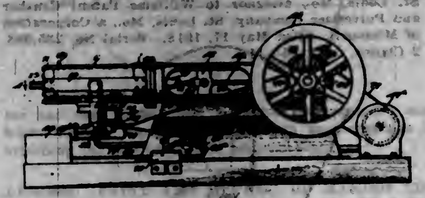
1. In a flying machine, the combination of an internally trussed supporting airfoil with its truss structure entirely inclosed by upper and lower airfoil surfaces; and a fore and aft vessel of inclosed type immediately subjacent to and roofed by said airfoil, and having its sides united with the airfoil frame structure to serve as fore and aft girders therefore.

1,396,975. TREATMENT OF PHOSPHATES. Ellis C. Soper, Chattanooga, Tenn. Filed Jan. 12, 1918. Serial No. 211,477. 10 Claims. (Cl. 71—7.)

1. The process of treating phosphatic material to render the contained phosphoric acid citrate soluble, which consists in forming a fluid mixture of the said material and a reagent, treating the fluid mixture to reduce it to a substantially plastic state, and then subjecting the substantially plastic mixture to a high temperature sufficient to render the phosphoric acid citrate soluble.

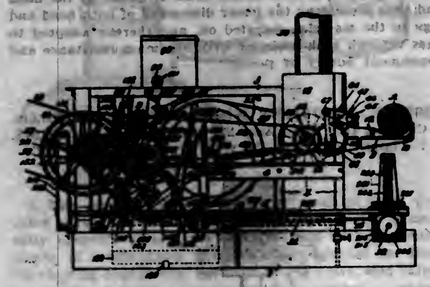
1,396,976. INTERNAL-COMBUSTION ENGINE. George A. Spence, Jr., Ulysses, Nebr., assignor to Ulysses Engine Company, Ulysses, Nebr., a Corporation of Nebraska. Filed Dec. 22, 1917. Serial No. 208,256. 4 Claims. (Cl. 123—119.)

1. In an internal combustion engine, the combination with a working chamber, of means for supplying a mixture of air and fuel to the working chamber comprising a closed carburetor having a mixing chamber, a fuel port opening into the mixing chamber, means for supplying compressed air to said mixing chamber, whereby a constant pressure above atmospheric is maintained therein, a closed fuel chamber, means for equalizing the pressure in the mixing and fuel chambers, means for supplying fuel to the fuel chamber and maintaining a substantially constant level of



fuel therein comprising a closed fuel supply reservoir, a fuel pump for withdrawing fuel from the supply reservoir and introducing it into the fuel chamber, an overflow duct leading from said fuel chamber to said supply reservoir, and means for equalizing the pressure in said fuel chamber and supply reservoir.

1,396,977. CARPET-CLEANING MACHINE. Joseph F. Smallsmith, Kansas City, Mo., assignor of one-half to Harvey P. Uts, Kansas City, Mo. Filed Mar. 5, 1918. Serial No. 220,447. 18 Claims. (Cl. 15—6.)



1. In a cleaning machine of the character described, a conveyer, means for attaching a carpet to said conveyer, a drum around which the carpet is drawn by the conveyer, a receptacle arranged above said drum to hold a washing fluid, valves to admit the washing fluid from the receptacle to the carpet, two sets of brushes for acting on the carpet, mechanism for moving one set of brushes to and fro, a rack actuated by the last-mentioned set of brushes, a pinion actuated by said rack, and a rack actuated by said pinion and connected to the other set of brushes to actuate the same.

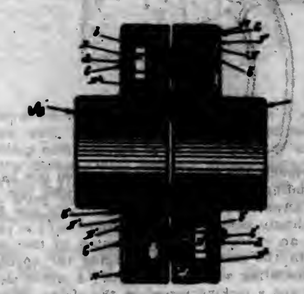
1,396,978. ENGINE INJECTION-VALVE. Adolf Tacchella, St. Louis, Mo., assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed Oct. 5, 1917. Serial No. 194,912. 12 Claims. (Cl. 123—32.)

1. The combination in an internal combustion engine of an injection valve casing secured in and to the engine wall and having a valve seat located close to a combustion space, a valve member extending into said casing and engaging said seat, a gland for the valve adapted to be secured in fixed relation to the casing and operating means for said valve member normally engaging the same at a point which is separated from the bore of the valve casing by a distance less than the length of that portion of the valve member that is within said casing, said means being



organized to provide a clear opening for the withdrawal of said valve member and its gland from the casing.

1,396,979. FLEXIBLE SHAFT-COUPLING. George H. Thomas, Westfield, N. Y., assignor to Flexible Couplings Company, Westfield, N. Y., a Corporation of New York. Filed Feb. 21, 1921. Serial No. 446,588. 4 Claims. (Cl. 64—96.)

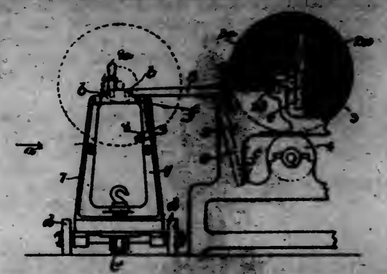


4. In a device of the class described, a pair of flanges adapted to be secured to shafts, studs secured in each flange, bearing recesses in each flange alternating with studs secured therein, bearings secured in said recesses comprising substantially a lubricating sleeve, a resilient sleeve surrounding the lubricating sleeve, a shell surrounding said resilient sleeve, all of said sleeves being secured together and secured in said recesses to form bearings for the studs secured in the other flange.

1,396,980. APPARATUS FOR USE IN CONNECTION WITH MACHINES FOR BLEACHING, DYEING, FINISHING, AND OTHERWISE TREATING FABRICS. John Thornber, Bradford, England, assignor to Bradford Dyers Association Limited, Bradford, England. Filed Jan. 20, 1919. Serial No. 272,148. 1 Claim. (Cl. 214—85.)

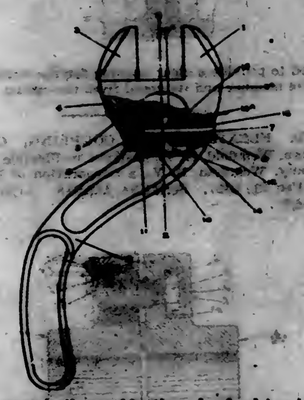
A vehicle, bearings carried thereby to receive a rotary shaft, coupling devices for securing said vehicle to a machine, detachable means carried by said machine to allow

release of a roll of fabric therein, means for adjusting said blade to roll from the machine in the widely contracting



of detachable arms and detachable pins for retaining the roll in position on the vehicle.

1,396,981. WRENCH. CLARENCE S. VANDENBURG, Cherrygrove, Pa. Filed Apr. 7, 1920. Serial No. 371,660. 2 Claims. (Cl. 81—165.)



1. In a wrench, the combination of a fixed jaw having a handle extending therefrom with a removable jaw guideway and a screw-opening therein; a movable jaw having a shank slidingly mounted in said guide-way; a rack on the shank; an operating screw mounted in the opening meshing with the rack; a pin bridging the opening on which the operating screw is mounted; a sleeve mounted on the pin; and a locking screw on the sleeve adapted to force the sleeve into engagement with the operating screw.

1,396,982. WRENCH. OTIS A. WARD, Evanston, Ill. Filed Apr. 3, 1920. Serial No. 371,064. 3 Claims. (Cl. 81—160.)



1. A wrench comprising a shank having a jaw member at one end thereof and terminating in a handle at its other end, a movable jaw member slidingly mounted on the shank, a rack-bar engaging the movable jaw member and slidable along the shank, a journal comprising a slotted body having end flanges mounted on the shank, a wrench nut mounted on said journal between said flanges and adapted to engage with the end-bars for holding the movable jaw member in any desired position, and means for preventing said journal on the shank for holding the wrench operating.

1,396,983. STIRRUP-HAMMER. MILTON F. WILLIAMS, St. Louis, Mo., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo., a Corporation of Missouri. Filed May 17, 1918. Serial No. 235,062. 2 Claims. (Cl. 29—31.)



1. In a machine of the character described, a stirrup hammer constituting a flattened bar of a width greater than its thickness, and stretching of a coarse bar formed having its larger dimension initially disposed in order to present only said lesser dimension to the material being operated upon, and legs formed at each end of said head and having their width in the same direction as the head and thus presenting the lesser dimension of both head and legs to the material operated on, and thereby adapted to pass through such material with minimum resistance and consequent outlay of power.

1,396,984. RESILIENT WHEEL. GEORGE H. WILLIS, Chicago, Ill. Filed Aug. 27, 1919. Serial No. 320,078. 1 Claim. (Cl. 152—28.)

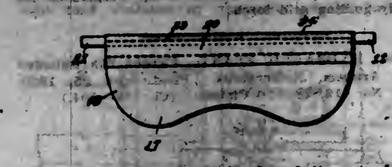


In combination, a wheel comprising a combined felly and rim structure having a permanent flange on one side and having a removable flange for the other side, a ring of resilient rubber embracing said felly and being confined laterally between and engaging said flanges, said ring of rubber being recessed about its periphery to permit of radial compression and lateral expansion, a channeled ring of metal embracing the outer periphery of said ring of rubber said channeled ring having flanges extending inwardly, said flanges engaging and embracing the outer edges of the ring between them, and a standard tire comprising a metal rim and resilient rubber tread, said metal rim firmly embracing said channeled ring.

1,396,985. CAP. Jacob Yarow, St. Louis, Mo., assignor to Gram Headwear Mfg. Company, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 18, 1921. Serial No. 438,139. 2 Claims. (Cl. 2—197.)

1. A cap comprising a body-portion and a band fixed at a side-margin to, and extending around within, the body-portion, the band being provided with openings disposed at opposite sides of the body-portion, in combination with an elongated button adapted to depend below the margin of said body-portion and provided centrally

on its upper margin with a pliable stalk whose opposite ends extend beyond the opposite side margins of the section, the stalk being adapted to removably fit between

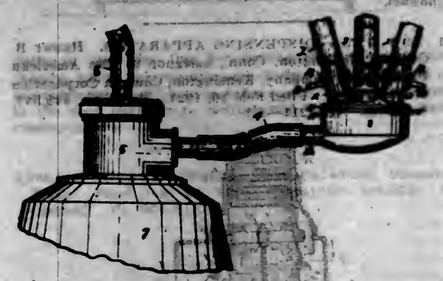


the cap body-portion and band and its extended ends being adapted for projection through said openings in attaching the section to said body-portion.

1,396,986. PAINT AND METHOD OF MAKING THE SAME. CHARLES BINO, Brooklyn, N. Y. Filed June 23, 1920. Serial No. 390,532. 9 Claims. (Cl. 134—51.)

1. A paint containing white lead, finely divided mica, and a volatile.

1,396,987. MILKING-MACHINE. HENRY F. BOUSKE, Milwaukee, Wis., assignor to D. V. Milking Machine Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 4, 1919. Serial No. 315,847. 6 Claims. (Cl. 31—26.)



1. The combination with a milking machine claw, provided with a series of inlet nipples, each having a manually operable valve, and also provided with an outlet nipple, of a detachable weight member adapted for loose interlocking engagement with the claw nipples, said valves being adapted to allow the suction to be applied in one cup to support the weighted claw, while the other cups are being adjusted in position for use.

3. The combination with a milking machine claw, provided with valved inlet nipples, and an outlet nipple, of means for increasing or decreasing the weight of the claw to suit the requirements of the cow to be milked, said means comprising a series of weights, each adapted to be detachably connected with the claw.

4. A milking machine claw including the combination of a lower portion provided with an outlet nipple, an upper portion provided with inlet nipples and adapted for detachable connection with the lower portion, a washer adapted to be engaged between said upper and lower portions, a screen supported from the washer, and a manually operable valve mounted upon said upper portion whereby the vacuum therein may be relieved to any desired amount.

5. A milking machine claw including the combination of a casing made in two separable portions, means for securing said portions together, a screen adapted to be supported between said portions, an outlet nipple and a set of inlet nipples in communication with the interior of the casing, and a manually operable valve whereby the vacuum within the casing may be relieved to any desired amount.

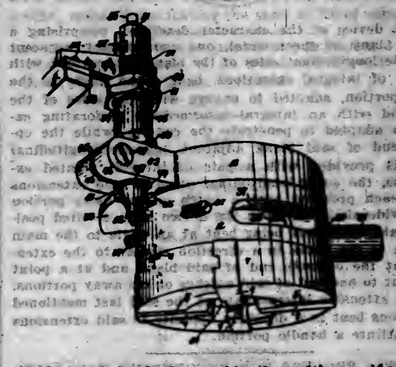
6. In a milking machine, a claw chamber having an air inlet port, and a screw threaded regulating valve adapted to progressively open or close said port.

1,396,988. FUSE. JOHN H. BRADBACK, New Haven, Conn. Filed Feb. 10, 1919. Serial No. 276,842. 6 Claims. (Cl. 200—131.)



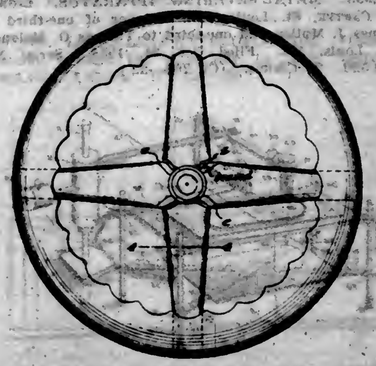
1. A fuse comprising a tube, collars permanently secured to opposite ends of the tube, bars extending transversely to said collars and caps closing the ends of the tubes and formed with inwardly projecting clips adapted to straddle the said bars.

1,396,989. DIE-HEAD FOR CUTTING TAPER AND STRAIGHT THREADS. ALBERT F. BREITENSTEIN, New Haven, Conn., assignor to The Geometric Tool Co., New Haven, Conn., a Corporation. Filed July 2, 1920. Serial No. 393,587. 11 Claims. (Cl. 10—96.)



1. In a die-head, the combination with a self-opening die-head unit, of an independently organized, thread-controlling unit adapted to be inserted into and removed from the die-head unit without disassembling the same, and having a yielding plunger retiring during the progress of the work and returning to its initial position after the completion of the work.

1,396,990. STEERING-WHEEL. HARRY W. BUNDY, Detroit, Mich. Filed Dec. 26, 1919. Serial No. 347,264. 1 Claim. (Cl. 74—33.)



A steering wheel comprising a rim and a spider, the latter made up of a plurality of channeled arms extending

from side to side of the ring overlapped and bound at the center with each provided with side extending flanges at the center which are overlapped and secured together, and a hub secured in the bosses of the overlapping arms.

1,396,991. CAN-OPENER. James M. Boyceau, Chicago, Ill., assignor to Kakichi Nakamura, Chicago, Ill. Filed Nov. 6, 1920. Serial No. 422,119. 2 Claims. (Cl. 220—51.)

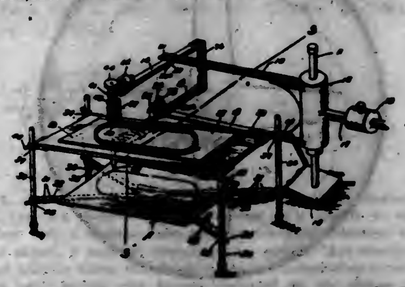


1. A device of the character described, comprising a single blank of sheet metal, one end whereof, adjacent opposite longitudinal sides of the blank, is provided with a pair of integral extensions, bent at an angle to the main portion, adapted to engage with the sides of the can and with an integral intermediate perforating extension adapted to penetrate the can-top, while the opposite end of said blank adjacent opposite longitudinal sides is provided with a pair of integral pointed extensions, the outer longitudinal edges of said extensions being each provided with a notch or cut away portion to provide air-inlets when the device is in a tilted position, said extensions being bent at an angle to the main portion of the blank in a direction similar to the extensions at the opposite end of said blank and at a point adjacent to one end of said notches or cut-away portions, and an extension intermediate of the said last mentioned extensions bent in a direction opposite to said extensions to constitute a handle portion.

1,396,992. PROCESS FOR RECOVERING VANADIUM. Arthur Howe Carpenter, Sawpit, Colo., assignor to The Colorado Vanadium Corporation, Sawpit, Colo., a Corporation of Colorado. Filed Nov. 29, 1919. Serial No. 341,484. 4 Claims. (Cl. 23—13.)

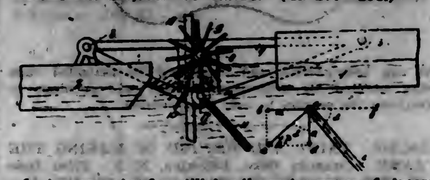
1. A process of recovering vanadium from its ores and compounds, comprising mixing the ore or compound with sodium chlorid, a relatively stable alkali metal salt, and a sulfur-containing material and roasting to transpose the vanadium compound to a compound soluble in water.

1,396,993. METAL-SEVERING APPARATUS. Lloyd A. Carter, St. Louis, Mo., assignor of one-third to James J. Mullen and one-third to Thomas O. Moloney, St. Louis, Mo. Filed Oct. 24, 1918. Serial No. 259,520. 24 Claims. (Cl. 266—23.)



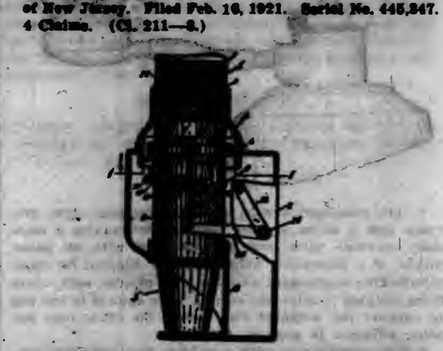
1. An apparatus of the class described comprising a movable frame, one portion of which carries a torch, a motor-driven tracer wheel on the frame, and a guiding member constituting a track upon which said wheel operates and with which it automatically cooperates for positively guiding said torch.

1,396,994. HYDRAULIC PLANT. Petrus van Rooyen Cats, Arnhem, Netherlands. Filed Sept. 25, 1920. Serial No. 412,628. 10 Claims. (Cl. 170—104.)



1. An apparatus for utilizing the water power of streaming water having a small drop, comprising an undershot water wheel, a pivoted gate arranged underneath the water wheel, a water float arranged in a supply channel; a tail water float; a frame carrying the wheel and pivoted to said floats; the upper edge of the gate being arranged in close proximity to the lowest point of the periphery of the water wheel; and means to guide the lower edge of the gate along the bottom of the supply channel.

1,396,995. DISPENSING APPARATUS. Henry B. Cooley, Kensington, Conn., assignor to The American Paper Goods Company, Kensington, Conn., a Corporation of New Jersey. Filed Feb. 16, 1921. Serial No. 445,247. 4 Claims. (Cl. 211—8.)

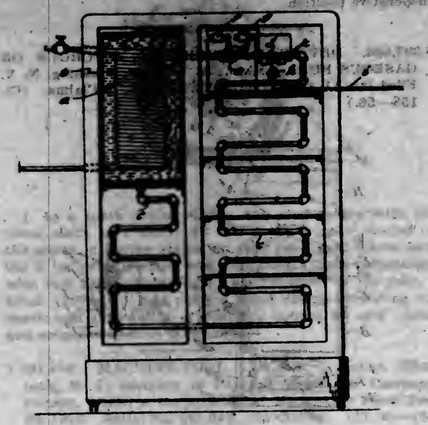


1. A machine of the class described, comprising a barrel to receive a stack of nested drinking cups, primary stack supporting means, secondary stack supporting means, the primary and the secondary stack supporting means simultaneously engaging the stack at superposed points when respectively in operative positions, a band around the barrel, means operable at will for causing a movement in one direction of said band, automatic means for causing an opposite movement of the band, means actuated by the band on its forward movement for moving the primary stack supporting means into inoperative position and on said forward movement for moving the secondary stack supporting means into operative position, and ejecting means for the lowermost part of the stack, actuated by the band on the last part of the advancing movement thereof, and after the primary stack supporting means is in stack-releasing position for reversing said actions on the retractive movement of the band.

1,396,996. REFRIGERATING APPARATUS. Lloyd Geary Corneau, Flint, Mich. Filed Feb. 16, 1920. Serial No. 358,910. 3 Claims. (Cl. 62—6.)

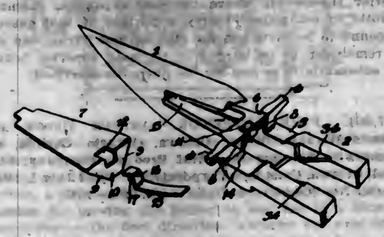
3. In a refrigerating system, the combination of a chamber containing a fluid calculated to withstand a relatively low temperature, an expanding chamber for

alternating heat therefrom to reduce the temperature of said fluid to a relatively low point, a food chamber in proximity, a pipe line circulating said fluid through said food chamber by thermally-induced currents, a



valve in said pipe line for cutting off the circulation therein, means for opening and closing said valve, and a thermostat in position to be influenced by the temperature in the food chamber to control said valve opening and closing means.

1,396,997. GUARD-FINGER. Fred Crawford, Prosser, Wash. Filed Jan. 29, 1920. Serial No. 354,813. 3 Claims. (Cl. 56—311.)

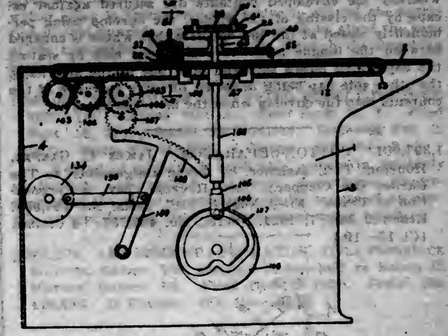


1. The combination with a guard finger having a longitudinally extending channel and provided with a locking leg above the channel, of a stationary knife having an opening to engage said locking leg, and a locking tongue fitting in the channel and arranged to prevent upward movement of the stationary knife relative to the guard finger.

1,396,998. PARTING DEVICE. Thomas Dean, Indianapolis, Ind. Original application filed June 28, 1918, Serial No. 242,469. Now Patent No. 1,336,944. Divided and this application filed Dec. 16, 1919. Serial No. 344,957. 7 Claims. (Cl. 91—47.)

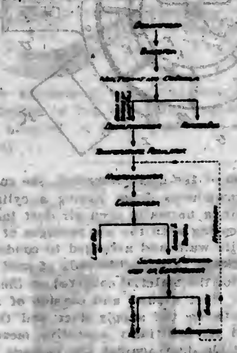
2. In a machine for making book covers, a frame for applying an adhesive to parts of the covering material, said frame having corrugations in its lower face.

3. In an adhesive applying machine, the combination of adhesive applying means, holding means for holding stationarily a sheet to be pasted during the adhesive applying operation, a single common means for actuating said adhesive applying means and said holding means, comprising pivotally supported lever means, means for tilting said lever means, and other means associated with said



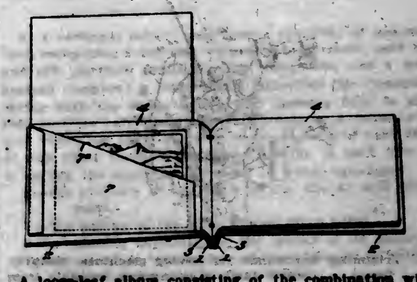
lever means and said adhesive applying means and said holding means for actuating the same in timed relation.

1,396,999. MAKING GASOLENE SUBSTITUTE. Carleton Ellis, Montclair, N. J. Filed Oct. 4, 1913. Serial No. 793,377. 14 Claims. (Cl. 196—25.)



8. The process of producing gasolene-like material from heavier oil which consists in heating it to the decomposition temperature of the principal constituents thereof, digesting the resulting decomposition products by holding such products without the substantial loss of heat so that they react upon themselves, and hydrogenating the gasolene-like material produced.

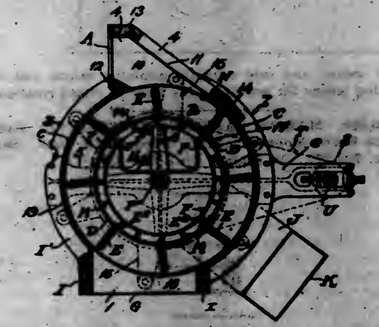
1,397,000. LOOSE-LEAF ENVELOP-ALBUM. Albert W. Engel, Chicago, Ill. Filed Mar. 13, 1920. Serial No. 365,442. 1 Claim. (Cl. 129—20.)



A loose-leaf album consisting of the combination with separable cover members, of envelops having one end with-

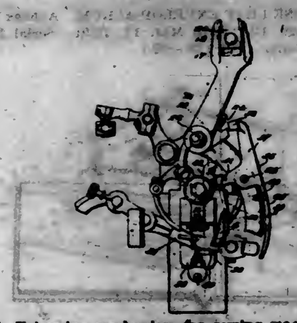
out a flap and the lock or main panel at that end extending for engagement between the cover members of the binder, and having flaps for closing all the other edges; whereby the enveloped contents are secured against escape by the closing of the binder, the envelop being permanently closed at the end opposite that which is engaged between the tongue members and at one side by sealing the flap which closes said side one of the side flaps, the other side flap being unsealed for easy entrance of the contents into the envelop when the binder is open.

1,397,001. COTTON-SEPARATOR. James C. Garner, Houston, Tex., assignor, by mesne assignments, to The Garner Gin Company, Inc., Houston, Tex., a Corporation of Texas. Filed Aug. 7, 1917, Serial No. 184,988. Renewed Jan. 7, 1921. Serial No. 435,757. 6 Claims. (Cl. 13—19.)



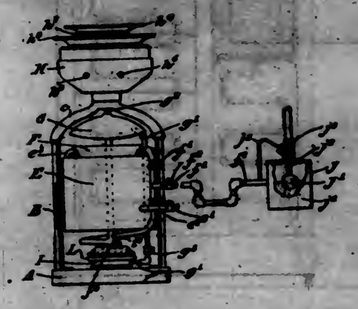
1. In a mechanism of the class described, the combination of a rotary foraminous drum having a cylindrical wall permeable to air, a normally open air duct inside of said drum communicating with the air passages of a predetermined area of its wall, and arranged to conduct the air continuously outward through the ends of said drum, a discharge passage for the material collected on the drum, a normally open air duct around and outside of a part of the drum and between the supply duct and the discharge passage, and intermittingly operative means for closing the said outside duct against the passage of air through the drum.

1,397,002. TRIMMING MECHANISM FOR SEWING-MACHINES. George S. Gatchell, Roselle Park, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Nov. 21, 1918. Serial No. 263,454. 10 Claims. (Cl. 112—125.)



1. Trimming mechanism for sewing machines, comprising a frame, a trimmer blade carrying arm movable from operative to inoperative position, an actuator, a retaining element coöperating with trimmer blade carrying arm for operatively connecting it with said actuator, and means carried by the frame and coöperating with said retaining element for retaining said trimmer blade carrying arm in inoperative position.

1,397,003. DEVICE FOR BURNING VAPOROUS OR GASEOUS FUEL. Manly M. Grimes, Flushing, N. Y. Filed Jan. 11, 1921. Serial No. 436,616. 9 Claims. (Cl. 158—56.)



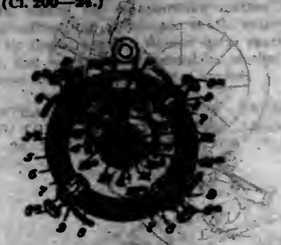
1. In a device for vaporizing and heating liquid fuel a steam boiler, a generator and inferior burner cup below the boiler, a steam superheater connected with the boiler, a conduit for carrying the superheated steam downwardly, means for controllably admitting liquid fuel into the descending superheated steam in the conduit, a continuation of the conduit to a point below the boiler then upwardly through destined openings in the boiler and in the superheater to an expansion chamber into which the gaseous compound resulting from a union of the superheated steam and the liquid fuel vapor is discharged, a superior burner cap above the said expansion chamber, conduits to controllably carry a portion of said gaseous compound to be burned in the said inferior burner cap and the remainder to be burned in the said superior burner cap, substantially as and for the purposes described.

1,397,004. FIRE-DETECTOR. Arthur Hudon and Percy William Wade, Ottawa, Ontario, Canada, assignors to Spanton Electrical Products Company, Limited, Ottawa, Canada, a Corporation. Filed July 1, 1919. Serial No. 308,009. 1 Claim. (Cl. 200—138.)



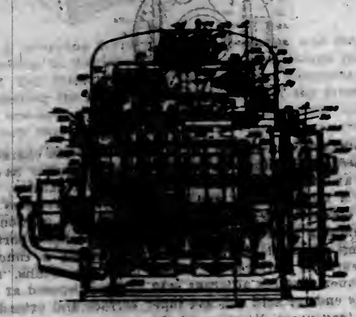
A detector of the character described, comprising a base, a plate on the base, an insulated block fixed to the base, a coiled thermostatic element mounted on the plate, having an end fastened to the block, and a movable end, a lever centrally pivoted on the plate and having a free end connected to the movable end of the thermostatic element, the lever being electrically connected to the plate, the plate being provided with a plurality of orifices, a contact pin designed to engage with any of the orifices and insulated from the plate so as to vary the temperature under which the lever will contact, a pair of posts, one of the posts being electrically connected to the contact pin and the other post being electrically connected to the plate, as and for the purpose specified.

1,397,005. SPEEDOMETER. Thomas Hutchison, Ames, Iowa. Filed Mar. 30, 1920. Serial No. 369,995. 4 Claims. (Cl. 200—24.)



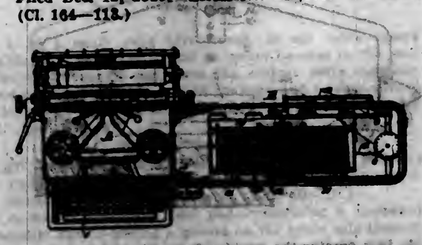
1. In a spark timing device, the combination with the timer shaft, of a sleeve on said shaft, a yoke pivoted on the sleeve, a spring acting on said yoke, said sleeve having a lug or projection and said yoke a part coöperating with said projection to limit the movement of the yoke, a brush carried by said yoke, a timer casing encircling the shaft, and a plurality of contacts carried by said casing and coöperating with said brush.

1,397,006. MACHINE-TOOL. Le Roy E. Jolls, Elizabeth, N. J., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed June 20, 1918. Serial No. 241,042. 31 Claims. (Cl. 90—15.)



1. A metal working machine including in combination, a work support, a tool holder, means for rotating the holder, means for moving the support to and fro in one direction, a driving member, and means operated from said member for moving the holder to and fro in a direction transverse to the first direction, whereby the axis of the holder traces a closed figure on the support.

1,397,007. CARD-PUNCHING DEVICE. August Knistrom, Binghamton, N. Y., assignor to The Tabulating Machine Company, a Corporation of New Jersey. Filed Dec. 12, 1919. Serial No. 344,375. 19 Claims. (Cl. 164—113.)



1. The combination with a typewriting machine of a tabulator card-punching attachment, punches therein, electromagnets in the attachment for selectively controlling the operation of the punches, circuits controlled by the numerical keys and special keys in the typewriter for operating said magnets, the letter character keys in said typewriter being in themselves ineffective to control the operation of said punches, and means operated by all of the keys of the typewriter for moving cards through the punching attachment in unison with the typewriter carriage.

1,397,008. METHOD OF PREPARING FINELY-DIVIDED METALS. Albert McGall, New York, N. Y. Filed Sept. 16, 1918, Serial No. 254,246. Renewed Feb. 2, 1921. Serial No. 440,262. 4 Claims. (Cl. 204—3.)

1. Method of preparing continuous metals in coherently subdivided, non-oxidized condition, comprising electrodepositing the metal in sponge form by means of an electric current flowing from an insoluble metal anode.

1,397,009. AMUSEMENT APPARATUS. Hyla Frederick Maynes, Gaines, Pa., assignor of one-half to Emma C. Maynes, Gaines, Pa. Filed Dec. 7, 1920. Serial No. 428,883. 12 Claims. (Cl. 104—53.)



1. An amusement apparatus comprising a trackway, cars adapted to run upon said trackway, and a movable tunnel adapted to inclose the cars and run along the trackway.

1,397,010. BOILER. Ansel M. Messenger, Buffalo, N. Y. Filed Mar. 6, 1917. Serial No. 152,974. 3 Claims. (Cl. 122—235.)



2. A sectional boiler comprising a plurality of members each embodying a top and vertical side portions, said top and side portions forming a fuel receptacle, and a combustion chamber; a longitudinal collecting flue communicating with the smoke outlet, and tapering flues in said side portions extending from said combustion chamber to said collecting flue, the cross sectional area of said flues at any point through their length being of such size as to satisfy the equation—PV=RT in which equation—

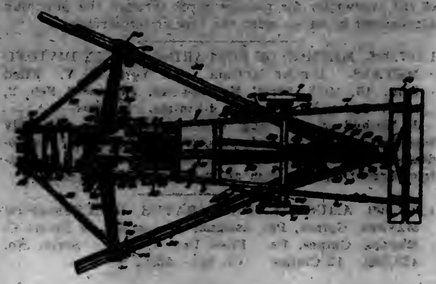
P—the pressure of the gases in the flue at said given point,

V—the volume of the gases at said given point,

R—a constant depending on the nature of the gases,

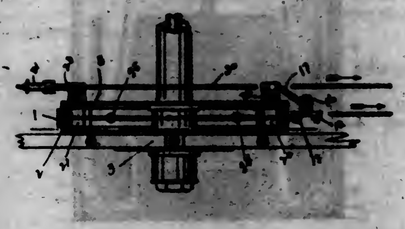
T—the absolute temperature of the gases at said given point, substantially as specified.

1,397,011. ROAD-WORKING MACHINE. Nahum M. Monroe and Amasey J. Monroe, Arthur, Ill. Filed July 19, 1919. Serial No. 311,698. 6 Claims. (Cl. 37—8.)



1. In a road working machine, in combination with a main frame and carrying means therefor, a scraper bar, a spreader bar pivotally connected to the main frame and the front portion of the scraper bar, hoisting means for the rear end of the scraper bar, a draft element connected to the rear portion of the scraper bar, means to releasably connect the draft element to the main frame, a crane mounted on the main frame for swinging movement and having an inclined pivot axis so that the free end of said crane moves upwardly as the crane swings rearwardly, and connecting means between the crane and the front portion of the scraper bar, said crane being swung rearwardly by the forward movement of the machine and hence caused to automatically raise the front end of the scraper bar, when the rear end of the latter is released by the draft element and then permitted to remain on the ground.

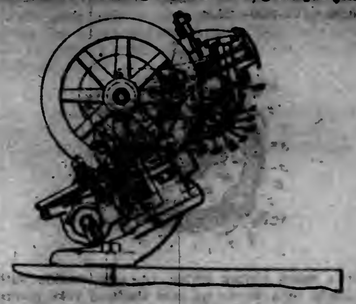
1,397,012. POWER-BRAKE. Porter S. Morgan, Norwalk, Conn., assignor to Rotary Brake Company, Inc., New York, N. Y., a Corporation. Filed Dec. 8, 1918. Serial No. 265,117. 10 Claims. (Cl. 188—185.)



1. A vehicle brake comprising a rotary drum and primary and secondary brake members adapted to engage the same, a momentum operated lever for actuating the secondary brake member, and means mounted upon the said lever for actuating the primary brake member, and, furthermore, to effect the momentum operation of the aforesaid lever.

1,397,013. SEWING-MACHINE. Alfred R. Morrill, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 18, 1918. Serial No. 267,378. 11 Claims. (Cl. 112—47.)

1. A sewing machine, having, in combination, stitch forming and work guiding mechanism including a needle, a looper, and a channel guide roll having its periphery arranged to engage the between substance at the base of the channel.

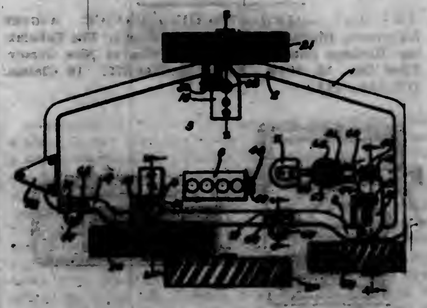


1,397,014. ROTATABLE TOOL-CARRIER FOR PLANING-MACHINES, &c. Joseph W. Oliver, Grand Rapids, Mich. Filed Sept. 20, 1919. Serial No. 327,020. 1 Claim. (Cl. 144—235.)



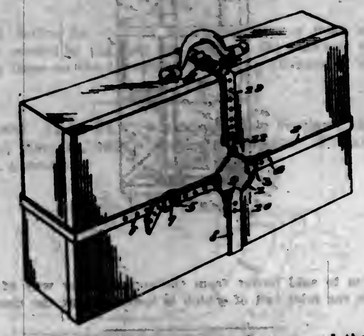
A rotatable tool-carrier for a machine of the character described, comprising: an elongated body member having means at its ends for mounting the same rotatably, and having a table portion, and first and second recesses adjacent opposite sides respectively of the table portion; a tool-clamping member cooperating with the table portion to clamp the tool therebetween, and having a concave inner surface, orifices to admit clamping means, and plane inner surfaces adjacent said orifices disposed at the opposite ends of said concave inner surface and extending in the transverse direction of the tool-carrier; clamping means extending through said orifices for clamping said members together with the tool between them.

1,397,015. TRACTOR. William L. Pope, Huntersville, N. C. Filed Sept. 7, 1920. Serial No. 408,566. 2 Claims. (Cl. 180—25.)



1. In a tractor the combination with supporting wheels and means under the control of the driver for bodily shifting one of the wheels to steer the tractor, of a longitudinal shaft, a transverse shaft driven thereby, a motor for actuating the longitudinal shaft, a plurality of vertical shafts, means for transmitting motion thereto from the longitudinal and transverse shafts respectively, gears carried by the supporting wheels, drive gears meshing therewith, and means for transmitting motion to the drive gears from the respective vertical shafts.

1,397,016. STRAPPING DEVICE FOR DRESS-SUIT CASES AND THE LIKE. Paul W. Post, Algoma, Wis. Filed Feb. 26, 1921. Serial No. 447,929. 2 Claims. (Cl. 24—17.)



1. A strapping device for dress suit cases and the like, comprising in combination with a pair of straps passing about the dress suit case in opposite directions, one intersecting the other adjacent one face of the dress suit case, one end of each strap having a closed loop, an endless loop chain passing through the closed loops, one end of one of the straps being folded to form a loop engaging said endless chain, a buckle adjustably and detachably connecting said folded end with the body of the strap, one end of the other strap having an opening loop, whereby the opening loop may be adjusted, and a hook carried by the opening loop to engage the endless chain, whereby upon adjusting either strap, both straps may be tightened simultaneously.

1,397,017. ATTACHMENT FOR SPARK-PLUGS. Abner Randolph Price, Toronto, Ontario, Canada. Filed Apr. 10, 1920. Serial No. 372,892. 3 Claims. (Cl. 123—169.)



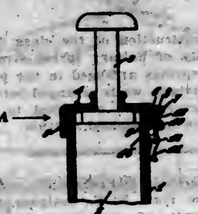
1. In a spark plug attachment, an air valve casing having an inlet passage and an outlet passage in the wall thereof leading to and from the central valve chamber, and a valve operating in said chamber and being provided with an intermediate annular groove registering with said air inlet passage.

1,397,018. POCKET-KNIFE AND TOOL-PAD. Edmund Pritchman, Sheffield, England. Filed Mar. 19, 1920. Serial No. 367,150. 1 Claim. (Cl. 30—10.)

A pocket knife and tool pad, comprising a U-shaped metallic handle having a groove on the inner side thereof, said handle being provided in each prong near its end with a round opening, a tool adapted to lie within the handle in its closed position, a tang at one end of the tool and provided with square shoulders, said tang being of uniform thickness and having rectangular pegs projecting from the edges and adapted to pivot in the openings in the handle, said tang tapering from the shoulders to the pegs.

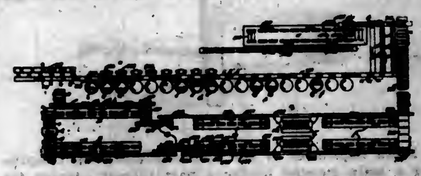


1,397,019. MUSICAL INSTRUMENT. Walton C. Roberts, Summit, Ga. Filed Oct. 16, 1920. Serial No. 417,657. 5 Claims. (Cl. 84—392.)



1. In a musical instrument of the trumpet type, a casing; a cap on the casing and free from screw connection therewith, the cap being removable bodily from the casing; interengaging parts on the casing and the cap coacting to hold the cap on the casing; a valve mounted to reciprocate in the casing; and a stem cooperating with the valve and slidable in the cap.

1,397,020. METHOD OF AND APPARATUS FOR FORMING AND ASSEMBLING METAL ELEMENTS. Reuben Stanley Smith, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Jan. 21, 1918. Serial No. 212,934. 135 Claims. (Cl. 29—33.)



97. A method of fabricating automobile frames, which consists in assembling frame elements in sets, temporarily securing in assembled relation the elements of each set, advancing the assembled sets of elements in a regular succession of sets while thus secured, and subjecting the sets of assembled elements in the advancing succession of sets to progressive connecting operations performed at different points upon the set of elements and at different points in the line of advance, to permanently unite the elements of each set into a rigid and unitary structure.

110. Apparatus for preparing a set of elements for assembly into a fixed structural unit, such apparatus comprising separate lines of intermittingly operating mechanisms, each line of such mechanisms being composed of machines adapted for progressive treatment of element material to prepare it for assembly, and means for operating all of the said machines cyclically for a brief period for the production of a set of elements through a succession of such periods of cyclic operation and the delivery of a set of elements in assembled relation during each said cyclic period.



1. A spring construction of the class described, comprising a plurality of unitary spring structures having pockets therein, springs arranged in the pockets of said structures, and division walls arranged between said unitary spring structures and connected to the latter to hold the structures in suspended relation.

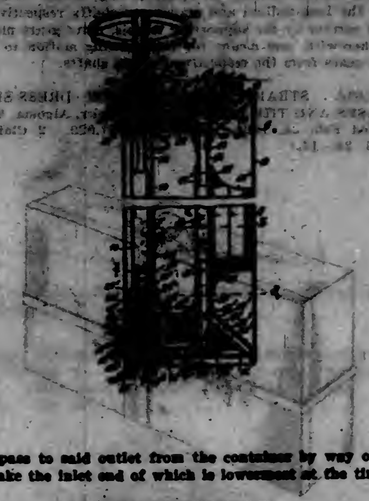
1,397,022. WINDING IMPLEMENT. FREDERICK B. TOWNSEND, New York, N. Y., assignor, by direct and mesne assignments, of one-half to Douglas Sprague, Mount Vernon, N. Y., and one-half to Henry C. Kavieze, Hasbrouck Heights, N. J. Filed Dec. 31, 1917. Serial No. 209,744. Renewed Feb. 16, 1921. Serial No. 445,447. 6 Claims. (Cl. 242—17.)



2. An implement of the character described, comprising a main member having a part thereof adapted for grasping by one hand when using the implement and being further provided with a transverse seat, and an auxiliary member removably engaging the seat in said main member, the intersecting portions of said members being designed to receive the yarn wound alternately therearound by the other hand, said auxiliary member being completely separable from the main member by a single movement in the direction of its own axis while the yarn is in place on both members, whereafter the completed ball of yarn may be removed by sliding it off either end of the member first above named.

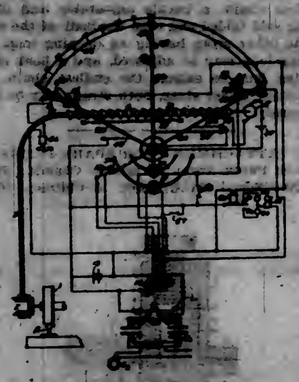
1,397,023. LIQUID-PROJECTING DEVICE. HENRY B. TURNELL, New York, N. Y. Filed Apr. 7, 1920. Serial No. 372,183. 17 Claims. (Cl. 299—93.)

1. A container provided with a plurality of shiftaway intakes having their inlets in different planes passing through the longitudinal axis of the container, whereby the inlets of different intakes will be brought to a lowermost position when the container is turned while the lon-



to pass to said outlet from the container by way of the intake the inlet end of which is lowermost at the time.

1,397,024. AUTOMATIC TRAIN CONTROL. THOMAS W. VAUCLAIN AND WILLIAM C. NIMS, New York, N. Y. Filed Jan. 27, 1917. Serial No. 144,294. 7 Claims. (Cl. 246—63.)



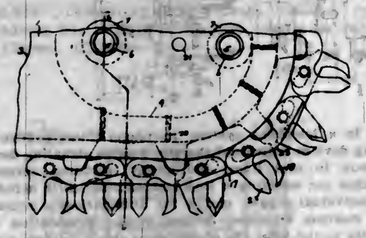
2. In an automatic train control, a vehicle, a speed indicating hand, a stop hand, an air brake control, means for moving the speed indicating hand and the stop hand substantially in the movement of the vehicle, a speed limit hand in the path of movement of the speed indicating hand and the stop hand capable of being moved toward the speed indicating hand by the stop hand, manual independent of the speed indicating hand and the stop hand for moving the speed limit hand [illegible] by the stop hand, [illegible] the stop hand to the more restrictive [illegible] overpassing the speed limit hand to the instantaneous speed position determined by the train condition and actual [illegible] of the speed limit hand for operating the air brake control.

1,397,025. PORTABLE FLOATING BREAKWATER OR BULKHEAD. MANLEY ARSON WHITE, Beverly, Mass. Filed Sept. 24, 1920. Serial No. 412,556. 6 Claims. (Cl. 61—6.)



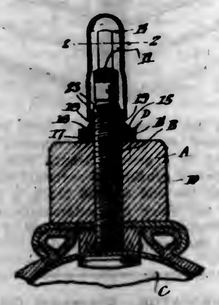
1. A device for calming seas comprising a float, and means carried by the float for receiving the seas and conveying them to the trough of the sea in advance of said float.

1,397,026. LINK SAW. CHARLES WOLF, Portland, Oreg. Filed Mar. 10, 1920. Serial No. 364,694. 7 Claims. (Cl. 143—32.)



1. A block chain saw having a drag tooth on each end of each block link and having one cutter tooth positioned at each end of each pair of connecting links between pairs of drag teeth and connecting pins passing through said block and connecting links between the drag and cutting teeth in a manner that the points of both the cutting and the drag teeth come between the adjacent pivot of the link to the block and the end of the link and the block respectively.

1,397,027. VALVE-CAP. HENRY ALFRED WOOD, Kingston, Ontario, Canada. Filed Nov. 1, 1919. Serial No. 335,074. 1 Claim. (Cl. 152—12.)

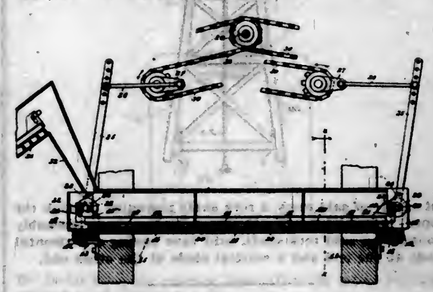


A cap for valve stand comprising a flange sleeve adapted to engage the stem of the valve and provided with a continuous cam groove having a central inner portion and having outer portions opening at the outer edge of the sleeve, the central portion of the cam groove having a recess therein and a cap having an inwardly disposed projection designed to co-act with the groove and adapted to engage in the recess, the said cap being capable of being tightened on the sleeve and released by continuous turning motion in one direction, being adapted to be held at central position in the cam groove by engagement between the projection and recess.

1,397,028. FIREPROOF PAINT. GUSTAV A. WORTELMANN, New York, N. Y. Filed Dec. 6, 1920. Serial No. 428,453. 6 Claims. (Cl. 134—45.)

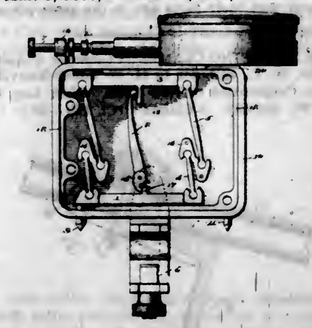
6. A fireproof paint comprising sodium silicate, water, powdered asbestos, sodium phosphate and magnesium sulfate.

1,397,029. CARBONIZING APPARATUS. FRANK W. YOUNG, Verona, N. J. Filed Dec. 27, 1919. Serial No. 347,794. 17 Claims. (Cl. 269—23.)



1. An apparatus of the class described comprising a surface along which material is to be moved, a conveyer associated therewith, and means for mounting said conveyer with relation to said surface so as to intermittently move the material in a forward direction along said surface and to divide the material into piles, sub-divide the said piles, and join the adjacent sub-divisions of the piles of material.

1,397,030. EXTENSOMETER. GEORGE H. BENEDICT, Schenectady, N. Y. Filed Oct. 8, 1919. Serial No. 329,351. 5 Claims. (Cl. 33—147.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. An extensometer comprising a casing having a point fixed with reference thereto, a movable working bar mounted in said casing and having a second point secured thereto, a lug on said bar, a register operating bar movably mounted in said casing and having a projecting lug and a pivot lever coacting with said lugs.

1,397,031. WINDMILL. BENJAMIN W. BOSTON, Pendleton, Ind. Filed Feb. 10, 1920. Serial No. 357,603. 1 Claim. (Cl. 170—12.)

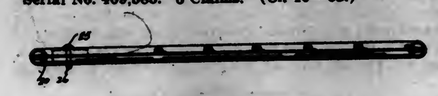
A windmill comprising a supporting derrick, a support secured thereon, a head rotatable on said support, a shaft

journaled through said head, spaced upstanding parallel arms on said head, a transverse shaft journaled through said arms, meshing bevel gears carried by said first and second named shafts, wind wheels and said horizontal shaft



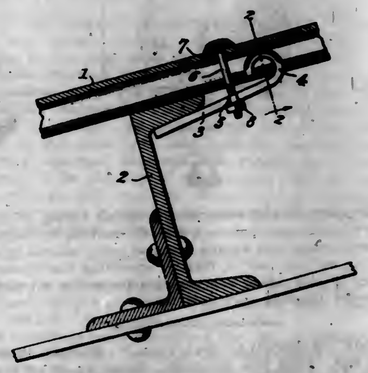
outwardly of said arms, a rock shaft journaled through the upper extremities of said arms, and a vane rockably mounted on said rock shaft, said vane having a horizontal blade at one end and a vertical blade at the other end.

1,397,032. LICENSE-PLATE. GEORGE WARNER CAMPION, Owen Sound, Ontario, Canada. Filed Sept. 11, 1920. Serial No. 409,585. 6 Claims. (Cl. 40—68.)



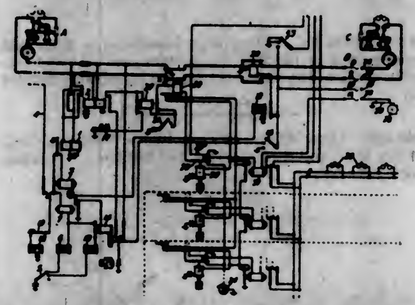
1. In a license plate the combination of a plurality of plates defining a serial number, a State and date of issuance, said plates having male and female couplings formed rigid therewith, the plates when assembled being so arranged that their faces are in the same plane.

1,397,033. ROOFING-CLAMP. CLARENCE CARSON, New Rochelle, N. Y., assignor to H. W. Johns-Manville Company, a Corporation of New York. Filed Aug. 6, 1920. Serial No. 401,691. 2 Claims. (Cl. 189—35.)



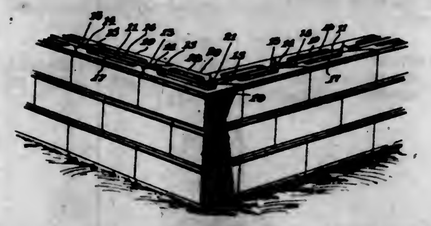
2. In an apparatus for holding a sheet of material having curved surfaces, to a supporting beam, the combination of a strip of stiff material having a flat bearing surface at one end and a bearing surface at the other end curved in a plane extending longitudinally of the strip and perpendicular to said bearing surface, with fastening means engaging the strip intermediate of its ends.

1,397,034. TELEPHONE-EXCHANGE SYSTEM. HENRY P. CLAUSEN, Mount Vernon, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 19, 1919. Serial No. 312,007. 14 Claims. (Cl. 179—18.)



1. In a telephone system, telephone lines, audible signaling devices individual thereto, audible signaling devices common to said lines, and means including automatic switches for selecting a line and automatically actuating its individual signal, means for automatically actuating said common signaling devices at the termination of a definite period after the operation of the individual signaling device of the selected line, and means whereby a third one of said lines may be connected to the calling line.

1,397,035. BUILDING-BLOCK. THOMAS COLOSIMO, Gary, Ind. Filed May 12, 1921. Serial No. 468,982. 2 Claims. (Cl. 72—41.)

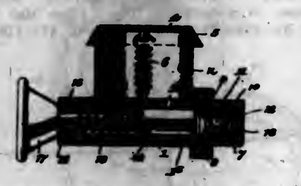


1. A building block comprising a body portion having vertically disposed air spaces on opposite sides of its median line, and of a greater length than one-half the length of the block, a continuous centrally disposed groove in two sides and one end of said block, a recess formed in one end of the block and communicating with said groove, and a projection at the other end of said block of less length than the depth of said recess.

1,396,086. LUBRICATOR. WILFRED G. COLBS, Madison, Wis., assignor to Madison Kipp Corporation, Madison, Wis., a Corporation of Wisconsin. Filed Dec. 22, 1919. Serial No. 346,585. 2 Claims. (Cl. 184—28.)

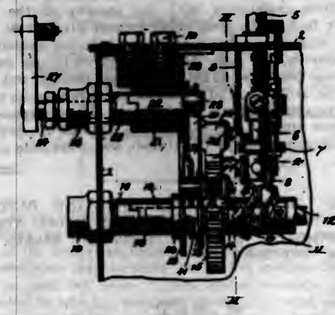
2. In a lubricator, the combination of a body having a cylinder formed therein; a piston mounted in the cylinder; means for actuating the piston; a reservoir located to one side of the cylinder and communicating therewith through a port, the upper edge of the reservoir being downwardly

and outwardly beveled; a cover therefor, said cover being provided with a seat upon its under face adapted to contact the beveled edge of the reservoir and likewise having a



portion extending outwardly beyond the side wall of the reservoir; and a spring secured to the cover and the body portion acting to draw the cover to place.

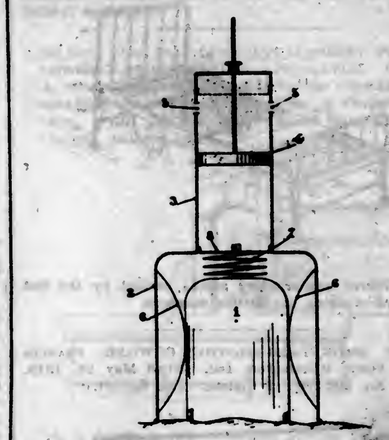
1,397,037. LUBRICATOR. WILFRED GEORGE COLBS, Madison, Wis. Filed Dec. 27, 1920. Serial No. 433,358. 4 Claims. (Cl. 284—27.)



4. In a lubricator, the combination of a casing or reservoir; a cover therefor; a block secured to the under face of the cover; a shaft having its bearing in the block; a wrist pin extending outwardly from the shaft; a hanger secured to the cover adjacent the block and extending downwardly within the reservoir, said hanger having an opening formed therein into which the side of the block projects; a ratchet wheel; a shaft extending through the hub of the ratchet wheel; a sleeve mounted upon the shaft and passing through a bearing formed in the lower portion of the hanger; a lever fulcrumed upon said sleeve; a pitman connected at one end to the lever and at its upper end to the wrist pin; a pawl carried by the lever and coacting with the ratchet wheel; a second pawl mounted upon the hanger and likewise coöperating with the ratchet wheel; a pump; and suitable connections between the pump and the ratchet wheel whereby the pump is operated upon the actuation of the ratchet wheel.

1,397,038. APPARATUS FOR THE RAPID APPLICATION OF CUPPING-GLASSES, SUCTION-CUPS, &c. FERNAND DEVIENNE, Paris, France. Filed May 18, 1920. Serial No. 382,801. 4 Claims. (Cl. 128—300.)

1. Apparatus for the application of cupping glasses comprising a casing adapted to inclose the cupping glass, means connected to the casing for producing a degree of vacuum therein, and means for removably supporting the cupping glass in the casing to permit of withdrawal of



the latter from the cupping glass after the latter has been applied to the desired part.

1,397,039. METHOD OF TREATING WASTE SULFITE LIQUORS AND PRODUCT OBTAINED THEREFROM. WALTER H. DICKERSON, Muskegon, Mich., assignor, by mesne assignments, to Edward J. Koehler, New York, N. Y. Filed Nov. 16, 1918. Serial No. 262,763. 44 Claims. (Cl. 252.)

22. As a new article of manufacture, the solid constituents of waste sulfite liquors in the form of a sphere glazed on the surface.

1,397,040. CABLE-SPLICE. JAMES FRANCIS DILLON, Crown City, Ohio, assignor to The American Mine Door Company. Filed Feb. 24, 1919. Serial No. 278,683. 3 Claims. (Cl. 173—263.)

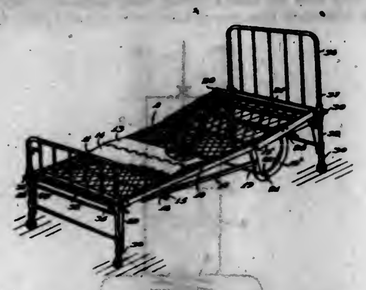


3. A cable splice comprising a blank, opposite ends of said blank being transversely corrugated to form mating jaw faces, a portion of said blank gradually decreasing in thickness to one end of the blank whereby when said blank is curled to form a split sleeve and constricting pressure applied thereto the reduced weaker end of the blank automatically disposes itself beneath the thicker end to close the sleeve and engage the jaw faces in overlapping relation.

1,397,041. INVALID-BED. THOMAS DODDS, Thessalon, Ontario, Canada. Filed Feb. 19, 1921. Serial No. 446,280. 4 Claims. (Cl. 5—12.)

1. An invalid bed having tubular posts at the head and foot thereof apertured at the lower extremity, hollow

posts telescoping within the tubular posts, flexible members connected to the hollow posts extending through the



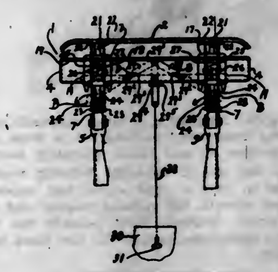
said apertures and winding means carried by the bed frame and engaging the flexible members.

1,397,042. SMOKELESS SHOTGUN-POWDER. FRANCIS I. DU PONT, Wilmington, Del. Filed May 28, 1919. Serial No. 300,266. 2 Claims. (Cl. 52—21.)



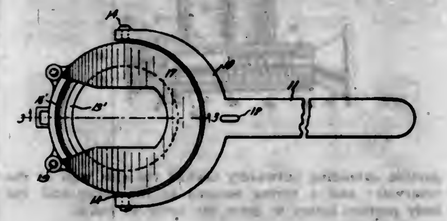
1. The process of making smokeless shot gun nitrocellulose powder which comprises incorporating the ingredients, forming them into grains, treating them uniformly with a mixture of substances having different boiling points, one of which is a substance which, in liquid condition at normal pressure and at a temperature below the ignition point of the nitrocellulose, is itself an active solvent of nitrocellulose but will not combine therewith to form a chemical compound, and the other of which is a liquid that is miscible with said solvent and not a solvent of the nitrocellulose, and then driving off the nonsolvent, whereupon the nitrocellulose is colloided and the grains are fixed.

1,397,043. SAFETY DEVICE FOR AUTOMOBILES. WILLIAM PATRICK DWYER, West Flamboro, Ontario, Canada. Filed June 24, 1921. Serial No. 480,069. 11 Claims. (Cl. 293—41.)



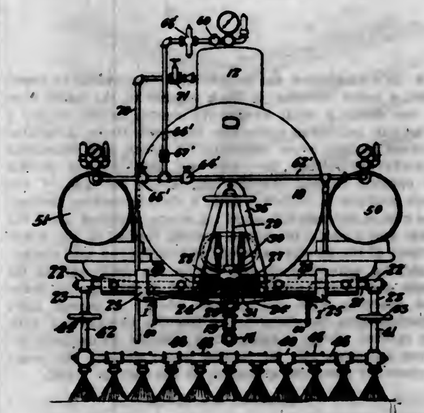
1. In a safety device for automobiles, the combination with the bumper of the automobile normally disposed transversely of and in front of the automobile, of an independent collapsible fender adapted to be held in an inoperative position behind the bumper, means for swinging the bumper backwardly into an inoperative position and independent means for projecting the fender forwardly into an extended position in front of the automobile simultaneously with the backward movement of the bumper.

1,397,044. WELL-DRILL WRENCH. WILLIAM H. ELLINGER, Wichita Falls, Tex. Filed May 4, 1920. Serial No. 378,832. 1 Claim. (Cl. 81—119.)



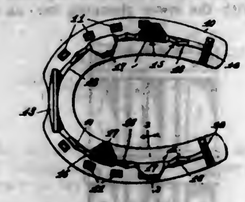
In a well drill wrench, the combination with a yoke and an open ring swiveled in the yoke, of an open ring of substantially L-shaped cross section slidably supporting the first ring on the horizontal leg thereof, a removable notched plate carried by the vertical leg of the L-shaped ring and overlying the horizontal leg thereof, the notch of the plate registering with the opening of the ring, the lower face of the plate being formed with a ball race, an open ring substantially U-shaped in cross section disposed between the plate and the swiveled ring having antifriction bearings rotatably secured therein and running in the said race, and a gate having a race in its upper face for movement of the bearings and movably connected to the first ring at one side of the opening thereof and detachably connected to the ring at the other side of the opening.

1,397,045. APPARATUS FOR SPRAYING BINDING MEDIA ON ROADS. SAM EVERETT FINLEY, Atlanta, Ga. Filed Oct. 29, 1919. Serial No. 334,315. 15 Claims. (Cl. 299—35.)



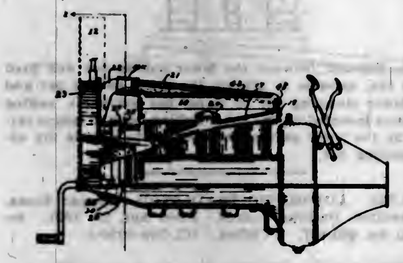
3. A distributer for bituminous road binders in heated form comprising a vehicle, a liquid tank thereon, a source of compressed air, and connections between said source and the liquid tank, said connections including an automatic pressure regulator and a check valve between the latter and the tank, whereby uniform air pressure is maintained in said tank and back flow therefrom prevented.

1,397,046. HORSESHOE. JOHN HALLER, Brooklyn, N. Y. Filed Aug. 7, 1920. Serial No. 401,869. 4 Claims. (Cl. 168—24.)



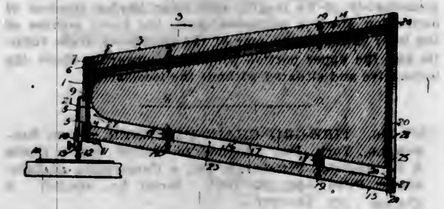
1. A horseshoe comprising a body portion and calks projecting downwardly therefrom and provided with transverse ribs and corrugations.

1,397,047. AIR-COOLING SYSTEM FOR GAS-ENGINES. DANIEL L. HARRIS, Wichita, Kans. Filed July 12, 1920. Serial No. 395,693. 2 Claims. (Cl. 123—171.)



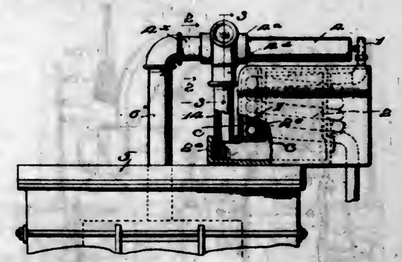
1. An air cooling system for internal combustion motors, including an air inlet device coupled to the jacket system of the motor, an inclosed fan case coupled to the outlet conductor leading from the jacket system and an air exit in said fan case; a fan, motor operable, rotatably mounted in said fan case and arranged to suck cooling air through the air inlet and jacket system; a valve arranged in said outlet conductor and normally open to permit passage of the air from the jacket into the fan case for expulsion; and members, operatively connected with said valve, arranged within said air passage and adapted to contract when cooled to an undesirable degree, which contraction operates to effect a closing valvular movement to limit the air circulation; all for the purposes as specified.

1,397,048. DEVICE FOR IMPRESSING SOUND-WAVES ON DIAPHRAGMS. CHARLES G. HENSLEY, Brooklyn, N. Y. Filed Jan. 31, 1918, Serial No. 214,629. Renewed Apr. 6, 1921. Serial No. 459,016. 10 Claims. (Cl. 181—27.)



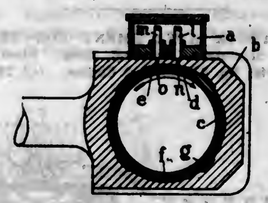
1. A device of the class described comprising a smaller diaphragm, a larger diaphragm, and spaced members forming a tapering fluid space of annular cross section and with which members said diaphragms are so associated that the vibrations of one of said diaphragms are transmitted to the other of said diaphragms through the fluid in said space.

1,397,049. NON-FLOODING ATTACHMENT FOR KEROSENE-GAS-GENERATING APPARATUS. CLARENCE A. HILL, Lima, Ohio, assignor to The Champion Kerosene-Burner Company, Lima, Ohio, a Corporation of Ohio. Filed Aug. 24, 1920. Serial No. 405,570. 16 Claims. (Cl. 158—53.)



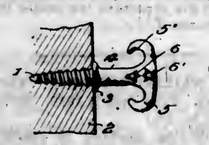
16. A fitting having a tubular portion for passage of liquid and an opening in its side for the escape of gas located above the bottom of the tubular portion so as to prevent liquid escaping therethrough by gravity, and a gas passage formed in the wall of the tubular portion and connected at one end with said opening and extending around the tubular portion to the opposite side thereof and opening thereat; and means for regulating the size of the said opening, substantially as described.

1,397,050. CIRCULATING LUBRICATION. WILHELM HOLTORF, Hamburg, Germany. Filed July 2, 1920. Serial No. 393,747. 5 Claims. (Cl. 64—24.)



1. In a device of the kind described in combination, a bearing, a rotary part located in said bearing, an oil tank on said bearing, means for causing the oil to circulate between said tank and said bearing and two separate oil collecting grooves in the non-loaded portion of said bearing, each one adapted to collect the oil at a certain direction of rotation.

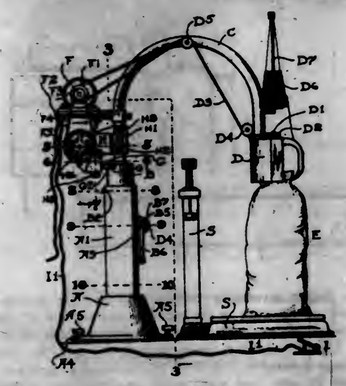
1,397,051. CLOTHESLINE-HOLDER. GORDON ALBERT HOPKINS, Bradford, Pa. Filed Mar. 26, 1921. Serial No. 455,941. 2 Claims. (Cl. 24—129.)



1. A clothes line holder comprising a screw threaded shank having a shoulder integral therewith, a body part

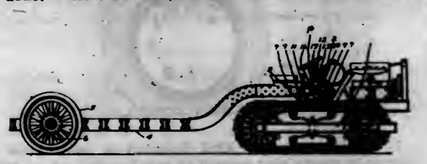
extending from said shoulder in a T shaped formation whose outer extremities terminate in horizontally curved line retaining hooks, and a pair of vertically projecting prongs extending from said body part adapted to apply a gripping contact to a line placed intermediate thereof, substantially as described.

1,397,052. SEWING-MACHINE. JESSE B. MILLER, Knoxville, Tenn. Filed Mar. 9, 1920. Serial No. 364,403. 16 Claims. (Cl. 112—11.)



1. In a machine of the nature described, the combination of a supporting member turnable on an upright axis and reaching laterally from said axis and having its outer end high enough to admit a bag under said end, a sewing head on said end, and automatic mechanism for actuating the sewing mechanism of said head and simultaneously turning said supporting member on said axis, substantially as described.

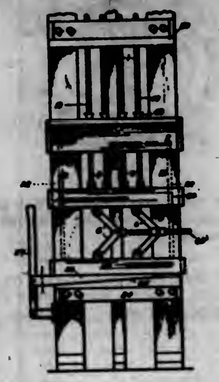
1,397,053. TRUCK ATTACHMENT FOR TRACTORS. FLOYD A. MITCHELL, Portland, Oreg. Filed Apr. 22, 1920. Serial No. 375,865. 2 Claims. (Cl. 280—33.1.)



1. In combination, a tractor of the endless track or other type, a longitudinally disposed frame supported by wheels in the rear and by said tractor at the front through a universal joint, said joint comprising a vertical king pin rigidly secured to the tractor frame, a T member disposed about said king pin having the center line thereof in the same vertical plane as the center line of said trailer or longitudinally disposed frame, ends of the T forming bearings for the draft pin structure the center line of which is at right angles to the T.

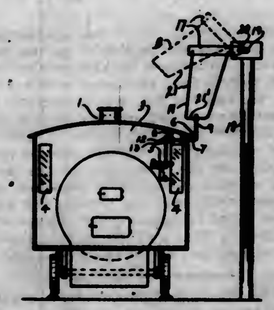
1,397,054. BOX-NAILING MACHINE. ARTHUR N. RIGGS, Centralia, Wash. Filed June 2, 1919. Serial No. 301,160. 2 Claims. (Cl. 1—10.)

2. In a nail driving machine, in combination with a frame structure, an upper clamping member fixed to said frame, and a lower clamping member slidable thereon, between which the parts of a box may be held for nailing, a cross bar fixed to the frame at some distance below the movable clamping member, upper and lower nailing bars slidable on the frame between the latter fixed bar and lower clamping bar; the lower one having fixed relation to and movable with the lower clamping bar, an adjustable



wedge disposed between the lower nailing bar and fixed cross bar, movable to actuate the lower nailing bar and the lower clamping bar to clamp the box parts, nailing members mounted on the upper nailing bar and means carried by the lower nailing bar operable to actuate the upper nailing bar.

1,397,055. AUTOMATIC TRAIN-STOP. ERFERD SAGER, Hamilton, Ontario, Canada. Filed Apr. 29, 1921. Serial No. 465,487. 6 Claims. (Cl. 246—190.)



1. In a locomotive, the combination with the locomotive and the emergency brake throttle thereof, of an operating lever carried by the locomotive and pivotally mounted intermediately of its length, said lever having freedom of oscillation about a horizontal axis, the lower portion of the lever engaging the rear of the emergency brake throttle and the upper portion projecting upwardly above the locomotive and situated without the locomotive.

1,397,056. TIRE-GRIP-CHAIN FASTENER. IRVIN SAUERWALD, York, Pa., assignor to United States Chain & Forging Co., Pittsburgh, Pa., a Corporation of Delaware. Filed Apr. 26, 1921. Serial No. 464,547. 6 Claims. (Cl. 24—241.)

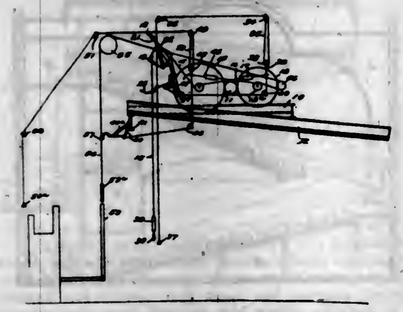
5. In a chain fastener, a connector having a link receiving slot, and a saddle-shaped keeper pivoted to said connector and having a recess therein adapted to receive said

link initially and to direct same into said link receiving slot when said keeper is turned about its pivot, and a pair of tongues integral with said keeper and lying in the



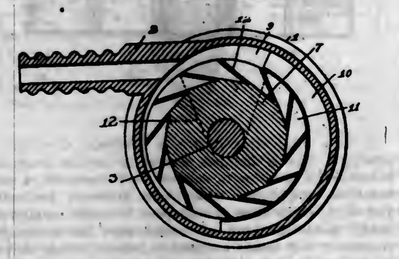
path of said link after movement of said keeper about its pivot, and locking means operable by pivotal movement of said keeper in the same direction.

1,397,057. HOISTING APPARATUS. FRED SEBASTIAN SCHAEFER, South St. Paul, Minn. Filed July 26, 1919. Serial No. 313,525. Renewed Apr. 15, 1921. Serial No. 461,653. 5 Claims. (Cl. 187—36.)



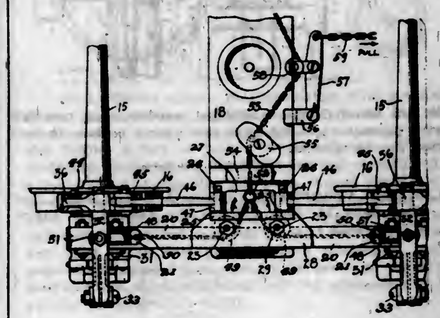
1. In a device of the type described, a driven element, a winding reel operated thereby, a brake arm adapted to stop the movement of the winding reel, a sheave, a flexible element secured to said winding reel and passing about said sheave, a support secured to the frame of said sheave, an arm pivotally secured to said support to swing vertically, a stop secured to said support adapted to limit the downward movement of said arm, a skeleton arm having a central opening, an eye-bolt securing said skeleton arm to said pivoted arm, a cable having one end secured to said eye-bolt and the other end secured to the free end of said brake arm, said flexible element extending through the opening in said skeleton arm and being provided there below with an enlargement of greater size than said opening.

1,397,058. VIBRATOR. HARRY J. SCHAUMLEFFEL, Marion, Ind. Filed June 18, 1920. Serial No. 390,004. 3 Claims. (Cl. 22—56.)



1. A vibrator including a stator having a tangential inlet and an arcuate series of lateral outlets of gradually diminished area, means for connecting the stator to an object to be vibrated, a rotor eccentrically mounted within the stator and having peripheral pockets for receiving successively the impact of motive fluid, there being a segmental space between the rotor and the stator extending from the inlet to the outlet, the width of the space gradually diminishing from the inlet to the farthermost outlet.

1,397,059. CAR-BRAKE. GEORGE L. SCOTT, Shawnee, Okla. Filed Jan. 2, 1920. Serial No. 349,182. 7 Claims. (Cl. 188—57.)



1. In brake mechanism, a truck having a side frame including a hollow bar, pivoted brake hangers extending over adjacent wheels of the truck, means normally holding said hangers elevated, and means extending within said bar of the frame and connected to said hangers for rocking the hangers downwardly.

1,397,060. TOBACCO-PACKER. ELLSWORTH SLACK, Miamisburg, Ohio. Filed Aug. 30, 1920. Serial No. 407,002. 7 Claims. (Cl. 226—18.)

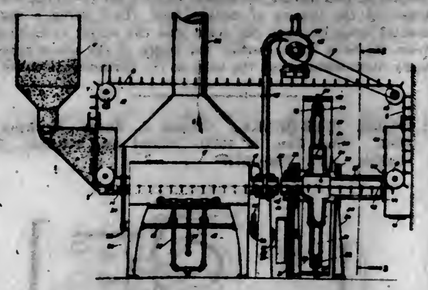


1. A tobacco packer comprising a cross head, side arms extending from the cross head, a cross strip carried by the side arms, resilient blades connected with the cross head and extending rearwardly therefrom adjacent the side arms, and blades pivotally connected with the cross head and extending rearwardly thereof beneath the cross strip.

1,397,061. APPARATUS FOR FILLING RECEPTACLES OR THE LIKE. HERBERT M. SMITH, Great Barrington, Mass., assignor to Stanley Insulating Company, Great Barrington, Mass., a Corporation of Maine. Filed Sept. 30, 1918. Serial No. 256,281. 7 Claims. (Cl. 226—19.)

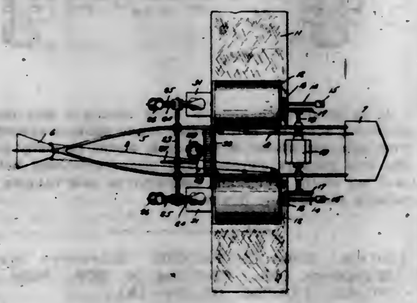
1. In a device of the kind described, a centrifugal member for supporting a receptacle to be loaded including a central portion open at both ends for the passage of a

conveyer, an endless conveyer passing through the central portion of the centrifugal member for supplying finely



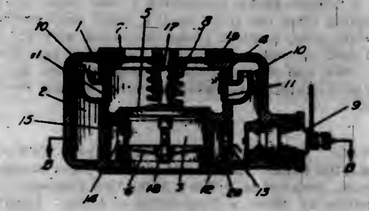
divided material, the centrifugal member being provided with passages opening from the central portion thereof into the receptacles.

1,397,062. AEROPLANE. JOSEPH A. SMITH, Edom, Tex. Filed June 17, 1921. Serial No. 478,365. 1 Claim. (Cl. 244—25.)



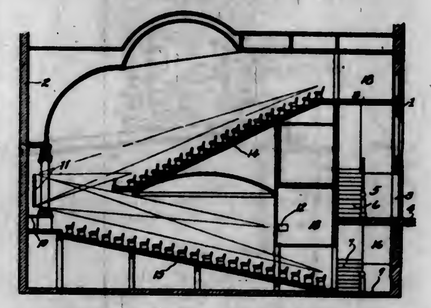
An aeroplane including a frame, air tubes supported on the frame, an air motor including a shaft, arms supported on the shaft, each of said arms having a groove formed therein, the grooves of the arms providing air pockets, and cups supported by the arms and adapted to receive air from the air tubes.

1,397,063. GASIFIER. WILLIAM M. SUBLETTE, Los Angeles, Calif., assignor of one-half to Chauncey M. Blair, Los Angeles, Calif. Filed Sept. 2, 1920. Serial No. 407,704. 1 Claim. (Cl. 123—122.)



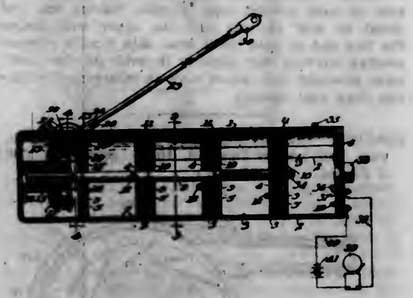
In a gasifier of the class described, adapted to be connected between the carburetor and the intake manifold of an internal combustion engine, the combination of a combustion chamber with a firing means; an intake tube passing from the carbureter through said combustion chamber; a valve chamber connecting said intake tube with said manifold; a delivery chamber circularly positioned between the said intake tube and the combustion chamber, adapted to admit vapor from the said intake tube to the combustion chamber; an exhaust means leading from the said combustion chamber to the valve chamber, adapted to prevent the passage of fire therethrough; a valve means positioned within the said valve chamber, adapted to automatically open and close with the volume of gas vapor sucked therethrough; a slide operatively positioned within the said intake tube, adapted to alternately close and open the port hole to the said delivery chamber with the action of the said valve means, as set forth.

1,397,064. THEATER. BRENT E. TOGNAZZEN, Seattle, Wash. Filed Feb. 28, 1921. Serial No. 448,408. 3 Claims. (Cl. 20—1.12.)



1. In a theater of the class described having a stage at one end thereof, a lower auditorium floor inclined downwardly from the stage and a balcony floor inclined upwardly from the stage.

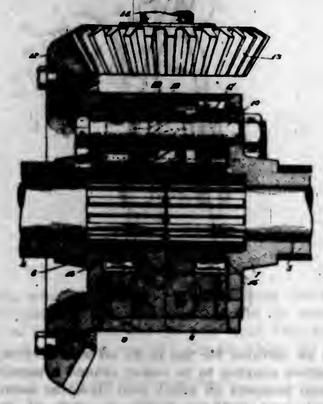
1,397,065. LUBRICATING DEVICE. CORNELIUS L. WELLS, Cumberstone, Md. Filed Nov. 30, 1920. Serial No. 427,283. 10 Claims. (Cl. 184—38.)



2. In a lubricating device, a lubricant container comprising a casing divided internally into a plurality of chambers, a follower in each of said chambers, a slidable rotatable shaft upon which said followers are mounted and with which they are adapted to move axially of the shaft, means defining an outlet port for each of said chambers, and means adapted to impart rotary movement to said shaft for advancing said followers in their respective chambers to express the lubricant therefrom through said outlet ports, said lubricant container adapted

to be mounted upon a relatively stationary member, and said shaft actuating means adapted to be connected with a relatively movable member for imparting movement to said shaft.

1,397,066. DIFFERENTIAL GEARING. ALFRED O. WILLIAMS, South Bend, Ind., assignor to Clark Equipment Company, Buchanan, Mich., a Corporation of Michigan. Filed May 27, 1918. Serial No. 236,789. 2 Claims. (Cl. 74—99.)



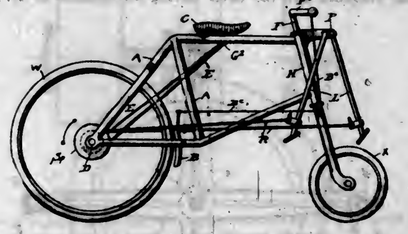
1. In a differential, the combination of a housing comprising end and intermediate members, bolts securing said housing members together, two shafts extending into said housing and having their inner end portions journaled therein, two gears fixed on said shafts adjacent to the end portions of said housing respectively, two pinions mounted on said bolts in staggered relation to each other, said pinions being in mesh with said gears respectively, and spiral gears rotating with said pinions respectively on said bolts and meshing with each other, adapted to permti said pinions to rotate in opposite directions.

1,397,067. CROWN-TOOTH. JAMES LEON WILLIAMS, New York, N. Y., assignor to The Dentist's Supply Company, a Corporation of New York. Filed Jan. 29, 1920. Serial No. 354,080. 9 Claims. (Cl. 32—30.)



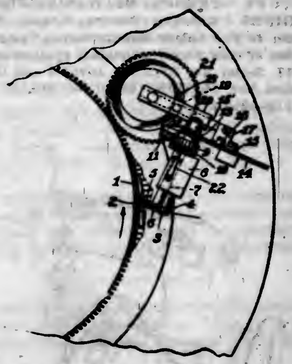
1. A crown tooth having the hole in its body made wider at its inner end in a direction mesio-distally of the tooth than at its outer or open end and at said outer end having the hole wider in a mesio-distally direction than in a bucco-lingual direction, and further having the hole of an oval shape in cross section at its outer end and gradually reduced in bucco-lingual direction and widened in the mesio-distal direction to provide a narrow and elongated cross section at the inner end.

1,397,068. MULTIPLE-GEARED VELOCIPEDE. ARTHUR MOFFAT ALLEN, New Brighton, N. Y. Filed Sept. 30, 1918. Serial No. 256,361. 5 Claims. (Cl. 208—21.)



1. In a wheeled vehicle, the combination with a suitable frame, of a stationary spindle mounted in the rear part of the frame, a road wheel fitted to turn loosely thereon and having a hub projecting from each side, a clutch operating upon each of the said hubs and constructed to automatically engage the hub when turned forwardly, a steering wheel with post journaled in a steering head upon the front of the frame, foot-levers having their upper ends journaled upon the forward part of the frame and their lower ends provided with foot-pedals, and a connection extended from each of the levers to one of the said clutches, the levers being operated alternately to impel the road-wheel forwardly.

1,397,069. KNITTING-MACHINE AND FABRIC, (SPOT EFFECT.) HERBERT T. BALLARD, Norristown, Pa. Filed Jan. 15, 1920. Serial No. 351,703. 2 Claims. (Cl. 66—12.)

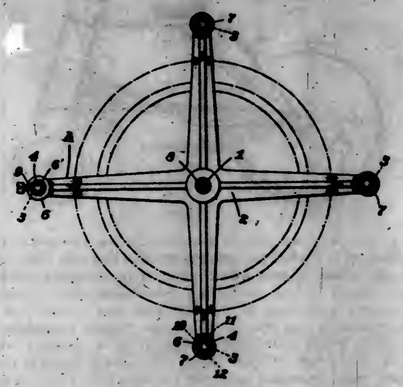


1. In combination with a main yarn guide, a supplemental yarn guide, a feeding element for feeding the supplemental yarn to the main yarn guide, means for periodically moving said element and holding it between its periodic movements to act as a brake on the supplemental yarn, and driving means for said element comprising a toothed wheel meshing with the needle stems and having its teeth of such number as to divide unequally into the number of needles, substantially as described.

1,397,070. KNITTING-MACHINE. HERBERT T. BALLARD, Norristown, Pa. Filed Sept. 28, 1920. Serial No. 413,280. 4 Claims. (Cl. 66—22.)

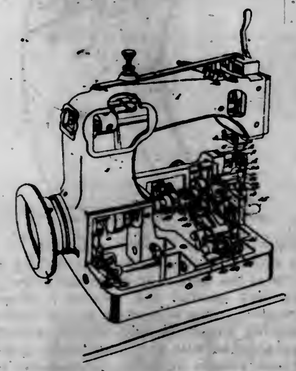
1. In a circular rib knitting machine a dial post, and a cross frame carrying the same, a plurality of standards for supporting said cross frame, said cross frame having bores to fit over portions of the standards and of larger

diameter in respect thereto and means for compensating for inaccuracies in the positioning of said bores and the dial post consisting of two eccentric sleeves fitted one within the other, the inner one having an inner bore to fit the standard and the outer having an exterior to fit the



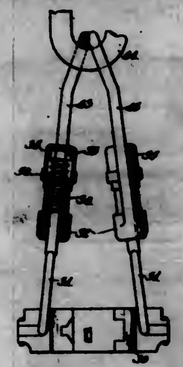
enlarged bore of the frame and having respectively outer and inner cylindrical surfaces to fit each other, said sleeves being placed in respect to each other to make a filling piece corresponding in cross sectional shape to the annular space between the exterior of the supporting standard and the wall of the bore in the frame, substantially as described.

1,397,071. FEEDING MECHANISM FOR SEWING-MACHINES. Rudolph Buckel, Roselle Park, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Original application filed Nov. 5, 1917, Serial No. 200,273. Divided and this application filed Nov. 19, 1918. Serial No. 263,135. 6 Claims. (Cl. 112—215.)



1. In a feeding mechanism for sewing machines, a feed-dog, a main-shaft, means for imparting feeding and lifting movements to said feed-dog including a feed-rocker provided with a slot and pivoted a substantial distance in rear of the main-shaft, a slide-block fitted to the slot in said feed-rocker, an eccentric element on said shaft, a strap connecting said eccentric element and said slide-block, and a lever pivoted on said shaft for adjusting said slide-block in said slot, a segment-plate having a series of sockets located at the front of the machine, an operating handle on said lever, and one or more yieldingly supported detent-pins on said handle adapted to seat in said sockets and hold said lever in an adjusted position.

1,397,072. OIL-WELL MACHINERY COMPRISING THE SPRING-RAIL ELEVATOR. Walter G. Black, Whittier, Calif. Filed July 6, 1920. Serial No. 394,327. 6 Claims. (Cl. 294—90.)



1. In an elevator for use in an oil well derrick, clamping members adapted to be locked around a member to be lifted, bail members on which said clamping members are supported, and resilient means in each of said bail members.

1,397,073. COLLAPSIBLE CORE. John N. Boyce, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 20, 1919. Serial No. 318,715. 12 Claims. (Cl. 18—45.)

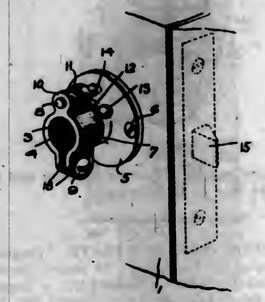


1. A tire forming core comprising a plurality of separate sections adapted for end to end engagement and having their engaging end faces each provided with a recess, means for registering engaging faces of said sections, a bolt pivoted in the recess of one section and adapted to swing outward into the recess of the contiguous end of the engaging section for locking engagement with said section in a position oblique with respect to the engaging faces of said sections.

1,397,074. DOOR-LOCK. William S. Brainard, Rochester, N. H., assignor of one-half to John L. Meader, Gonic, N. H. Filed May 8, 1920. Serial No. 379,766. 1 Claim. (Cl. 292—359.)

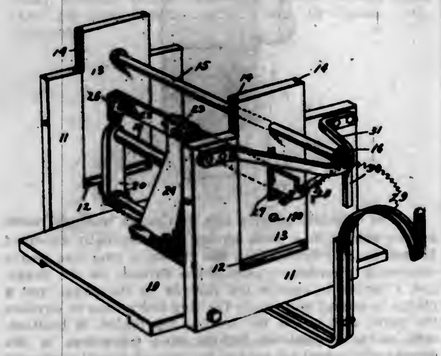
In a door lock, the combination with a door knob having a shank and a washer or rosette secured to the door

and provided with a bolt-receiving aperture, of a split sleeve encircling the door knob shank and clamped thereto, said sleeve having on its exterior a boss provided with a bolt-receiving aperture extending parallel to said shank but spaced therefrom, and also having a cam slot com-



municating with the aperture, a bolt slidably mounted in said bolt-receiving aperture and adapted to enter the aperture in the washer, and an arm rigid with the bolt extending through the cam slot and by which the bolt is operated.

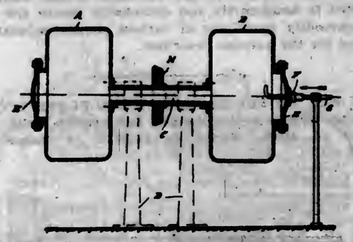
1,397,075. GIN-SAW FILER. Elsia Bin Bridges, Remmel, Ark. Filed July 7, 1919. Serial No. 308,956. 4 Claims. (Cl. 76—41.)



1. In a saw filer, the combination of a filer-carrying shaft, a pair of slides supporting said shaft, means for reciprocating the slides in a direction cross-wise of the shaft, a saw feed device, and an operative connection between the latter and one of said slides.

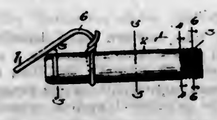
1,397,076. PROCESS FOR THE MANUFACTURE OF MERCURIC OXID. Giacomo Brusa, Turin, Italy, assignor to Giacomo Brusa and The Dott. V. Borelli & Co., Turin, Italy. Filed Nov. 19, 1919. Serial No. 339,228. 2 Claims. (Cl. 23—18.)

1. The herein-described process of manufacturing mercuric oxid, which consists in heating mercurous nitrate in a closed vessel to effect its decomposition; and simultaneously renewing the mercurous nitrate by causing the



nitrous vapors given off during decomposition to pass over metallic mercury and supplying oxygen thereto.

1,397,077. GAS-BURNER. Harry A. Bubb, Williamsport, Pa. Filed Oct. 19, 1920. Serial No. 418,034. 4 Claims. (Cl. 134—60.)



1. A gas burner comprising a shell open at one end for connection with a source of gas supply, the other end of said shell being provided with a counter space bore and an aperture communicating with said counter bore, a wire screen closing said aperture, refractory material in said shell, a second wire screen closing said open end and holding said refractory material in place and a wire coiled around said shell at one end and having its other end overlying the tip of said burner in line with said aperture.

1,397,078. REDUCING SLUDGE TO POWDER. Harry Williams Charlton, New York, N. Y., assignor to American Potash Corporation, a Virginia Company. Filed Apr. 26, 1920. Serial No. 376,574. 1 Claim. (Cl. 252.)

A process of disintegrating the putty-like mass resulting from the digestion of green-sand and lime which comprises mixing unslaked lime with the same and thereby forming a crumbly material; substantially as described.

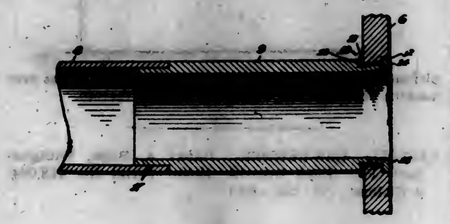
1,397,079. DETACHABLE INDICATOR FOR MERCHANDISE. Leo Cohen, Mount Vernon, N. Y. Filed June 2, 1921. Serial No. 474,508. 1 Claim. (Cl. 40—21.)



A detachable temporary indicator for commercial packages of the character designated, comprising a flexible memorandum insert tablet, a pliable holder for said flexible insert tablet formed with a frontal sight aperture,

an elastic resilient band connected and coincidental with the upper edge of said holder, and an elastic resilient band connected medially with the side edges of said holder and adapted to temporarily and detachably secure the device to commodity containers of various shapes, substantially as and for the purpose described.

1,397,080. BOILER-TUBE AND END-PLATE CONNECTION. CHARLES S. COLEMAN, Los Angeles, Calif. Filed Jan. 15, 1918. Serial No. 211,930. 4 Claims. (Cl. 285—45.)



3. In a boiler tube and end plate connection, a boiler end plate formed with a circular opening, a gasket having a cylindrical portion of a length less than the thickness of the end plate and formed with an end flange, said gasket arranged with its cylindrical portion extending into the opening in the end plate and with its flange abutting against the inner face of the end plate, said end plate being formed with a recess around the outer marginal edge of the opening forming a shoulder intermediate the inner and outer faces of the end plate flush with the end of the gasket, and a tube end section having a reduced end portion forming a shoulder; the reduced portion of said tube end section extending through the gasket with its shoulder abutting against the flange of the gasket and the outer end of the tube end section being turned into the recess to cover the end of the gasket in close contact therewith and to seat on the recessed shoulder with the turned portion of the end section terminating against the side wall of the recess and filling the latter to form a broken joint.

1,397,081. CAR-BODY. FRANK M. COWGILL, Columbus, Ohio, assignor to The Ralston Steel Car Company, Columbus, Ohio. Filed May 24, 1920. Serial No. 383,904. 3 Claims. (Cl. 105—364.)



1. A car body having metal wall sheets, the other face of each of said sheets being flat, and each sheet having an integral inwardly projecting vertical stake.

1,397,082. REPLACEABLE FACING AND PINS THEREFOR. GEORGE E. COX, Wilmington, Del. Filed Sept. 8, 1921. Serial No. 499,167. 5 Claims. (Cl. 82—9.)

1. In combination, a facing having two pin receiving holes, and a pair of pointed pins having a common central connecting collar, said pins fitting in the holes in said facing.

3. A pointed dental pin characterized by the provision of a plurality of annular flanges adapted to be received



within a facing and a collar of larger diameter and adapted to abut the inner face of said facing.

1,397,083. ADJUSTABLE HUB-PLATE. CHARLES W. DAKE, Chicago, Ill., assignor to Smith Locomotive Adjustable Hub Company, Chicago, Ill., a Corporation of Arizona. Filed July 21, 1919. Serial No. 312,263. 8 Claims. (Cl. 64—25.)

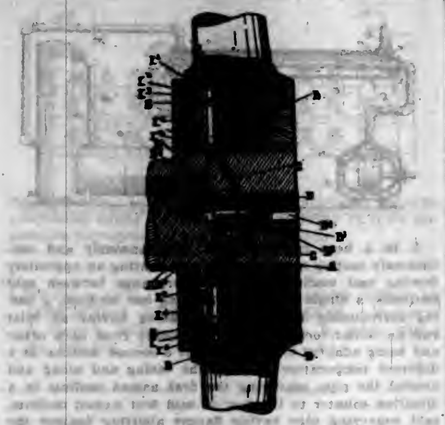


1. The combination of a hub, having an annular recess on one side with a plate having two internally threaded flanges to be received into the recess, a ring like means externally threaded to engage the threads on the flange, and a pinion to engage the threads on the flange and a pinion to engage and rotate the ring like means to advance the plate, and means for locking the pinion in position, said means comprising locking pins transverse to the driving pinion and adapted to be received into the external recesses on the driving pinion.

1,397,084. ADJUSTABLE HUB-PLATE. CHARLES W. DAKE, Chicago, Ill., assignor to Smith Locomotive Adjustable Hub Company, Chicago, Ill., a Corporation of Arizona. Filed July 21, 1919. Serial No. 312,266. 20 Claims. (Cl. 64—25.)

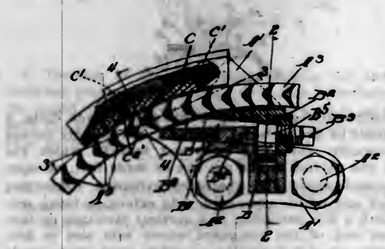
1. The combination of a hub, having an annular recess on one side, with a wearing plate having a portion adapted to be received into said recess and shaped so that the part which contacts the inner wall of the recess is capable of deformation to grip such wall, and means for introducing grease under pressure into the chamber formed between the hub and plate, so as to advance and hold the wearing plate to accommodate for wear and to press the

deformation part of the plate against the walls of the hub recess to close the chamber against the escape of grease,



said deformation part comprising two annular flanges about the outer surface of that part of the plate which proects within the hub recess.

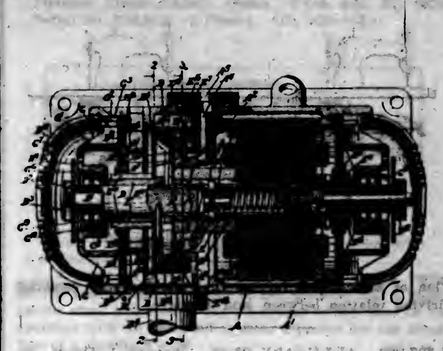
1,397,085. NOZZLE GUIDE-PASSAGE. CHARLES W. DAKE, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a Corporation of New Jersey. Filed Apr. 12, 1920. Serial No. 373,171. 18 Claims. (Cl. 253—93.)



1. A nozzle for a steam turbine comprising a solid cylindrical nozzle member, a socket therefor, means for supplying a motive fluid to the socket, the nozzle being longitudinally slotted along one side, the slot communicating with the steam supply.

1,397,086. STEAM-TURBINE AND GOVERNOR. CHARLES W. DAKE, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a Corporation of New Jersey. Original application filed Aug. 20, 1919, Serial No. 318,051. Divided and this application filed May 21, 1920. Serial No. 383,134. 62 Claims. (Cl. 253—82.)

1. In a governor two members mounted for rotation together and slidable one on the other, governor weights comprising bent bars engaging one member at one end and the other member at the other, and engaging said members in different parallel planes perpendicular to the axis of rotation, the weights tending to move such members with respect to one another laterally as the weights

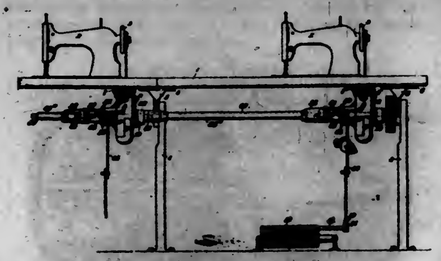


tend to position themselves under centrifugal force in a plane perpendicular to the axis.

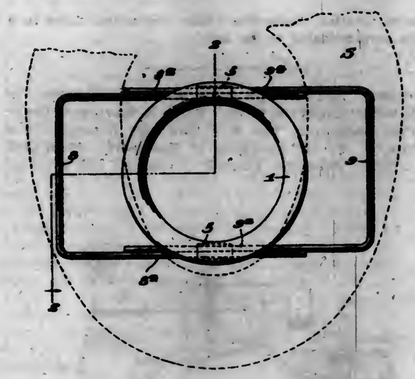
1,397,087. APPARATUS FOR MAKING SHEETS OF PLASTIC COMPOSITION. ELIAS B. DAVIDSON, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Dec. 11, 1920. Serial No. 429,927. 7 Claims. (Cl. 18—12.)

1. In a rubber forcing machine, the combination of a forcing chamber, an expanding nozzle at the outlet thereof, and a delivery nozzle adapted for independent rotation and relative movement axially of said shaft, means for producing relative movement between said clutch-members axially of said shaft to establish and interrupt driv-

ing relation between them, said means including a resiliently mounted cam surface adapted to yield on actuation of said means further than necessary to establish driving relation between said members.

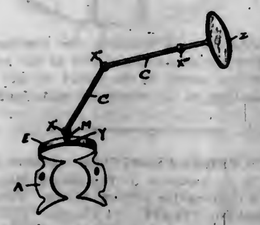


1,397,089. AUXILIARY SEAT. WALTER J. DIEHL, St. Louis, Mo. Filed Sept. 4, 1920. Serial No. 408,221. 4 Claims. (Cl. 4—18.)



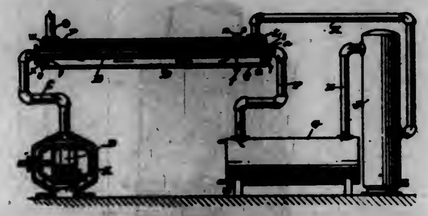
1. An auxiliary seat of the class described, including a seat ring having a rolled edge flange and a depending skirt flange and an intervening curved body, guide straps secured in the valley of the said curved body, and oppositely adjustable supporting frames engaging in said straps.

1,397,090. DEVICE FOR ADJUSTABLE MOUTH-MIRRORS. FREDERICK M. DIMAS, Baltimore, Md. Filed Dec. 16, 1920. Serial No. 431,309. 1 Claim. (Cl. 32—27.)



The combination of the rubber dam clamp, the three universally jointed arms connected thereto and the mirror attached by a screw to the outer arm, all as and for the purpose described.

1,397,091. HEAT-EXCHANGER. RICHARD W. DOUGLAS, West New Brighton, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed July 27, 1920. Serial No. 399,204. 2 Claims. (Cl. 257—9.)



1. In a heat exchanger for simultaneously and continuously cooling a hot medium and heating an oppositely flowing cool medium by heat interchange between said mediums, a single pipe for conveying one medium, a casing surrounding said pipe, said casing having an inlet and an outlet located at points remote from each other and being adapted to cause flow of a second medium at a different temperature through the casing and along and around the pipe conveying the first named medium in a direction counter to the flow of said first named medium, said conveying pipe having flanges abutting against the inner and outer faces of one end of the casing said flanges securing the end of the casing to prevent leakage and also preventing relative longitudinal movement between said pipe and casing, the opposite end of the casing adjacent the outlet having a packed joint around the discharge pipe to prevent leakage from the casing at said end.

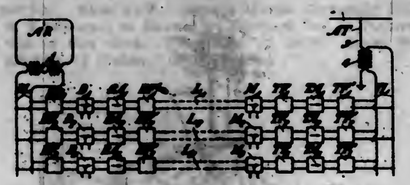
1,397,092. SAFETY-CATCH FOR PINS. FRED J. ENGEL, Newark, N. J., assignor to American Platinum Works, Newark, N. J., a Corporation of New Jersey. Filed May 22, 1918. Serial No. 236,014. 1 Claim. (Cl. 24—157.)



A safety-catch comprising a pin-guard made from a single piece of flat material, having a downwardly curved and outwardly extending hook end beneath which the pointed end portion of the pin can be made fast, an open end channel-shaped and apertured extension connecting said hook end of the pin-guard, said extension being provided with a slot extending in a vertical direction up into the hook end of the pin-guard where said slot is provided with a notched portion, a safety-catch plate made from a single piece of flat material pivotally arranged in said channel-shaped and apertured extension and extending in said slot, one side of said catch-plate being provided with a laterally extending beveled portion adapted to be brought into snapping and holding engagement with the notched portion of said slot, said catch-plate being further provided with a notched portion engaging with the end of said slot for limiting the upward movement of said catch-plate, and a finger piece upon the catch-plate for causing the disengagement of the beveled portion of the catch-plate with the notched portion of said slot.

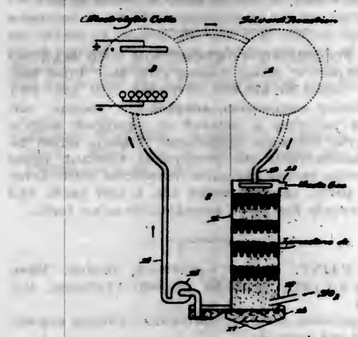
1,397,093. RADIOREPEATING SYSTEM. LLOYD ESPENSCHIED, Hollis, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 27, 1919. Serial No. 326,736. 11 Claims. (Cl. 250—15.)

1. A multiplex radio repeating station comprising a receiving antenna for absorbing energy transmitted at a plurality of frequencies from a plurality of signaling channels, a transmitting antenna for radiating amplified received energy to a distance, and a circuit arrangement



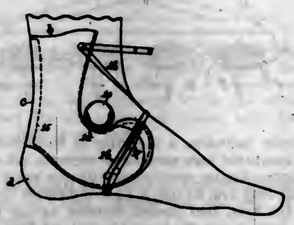
interconnecting said receiving and transmitting antenna, comprising means for amplifying a plurality of radio frequencies corresponding to different channels.

1,397,094. ART OF TREATING LIQUIDS USED IN INDUSTRIAL CHEMICAL PROCESSES. FREDERIC A. EUSTIS, Milton, Mass. Filed Nov. 8, 1919. Serial No. 335,453. 20 Claims. (Cl. 204—1.)



3. The art of treating liquid vehicles for industrial chemical processes comprising as a step introducing into the liquid uncombined sulfur dioxid in a state of fixation with the aid of nascent sulfites of an appropriate metallic base or bases.

1,397,095. ANKLE-SUPPORTER. HARRY B. HAMILTON, Boston, Mass. Filed Feb. 11, 1921. Serial No. 444,126. 5 Claims. (Cl. 128—166.)



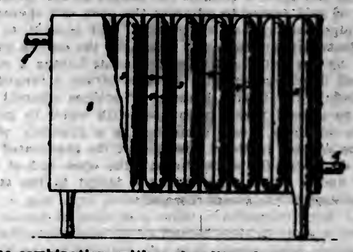
1. In an ankle supporter, in combination, a member to engage and support a thick portion of the side of the foot, and a filling member projecting from and beyond the inner surface of said member and arranged to engage and directly support a thinner portion of the foot adjacent to the ankle bone which is not directly supported by said member.

1,397,096. LEDGER-SHEET. CECIL A. HAMMER, Coeur d'Alene, Idaho, assignor of one-fourth to Edward B. Bletsoe, Coeur d'Alene, Idaho. Filed Apr. 27, 1920. Serial No. 376,916. 2 Claims. (Cl. 281—43.)



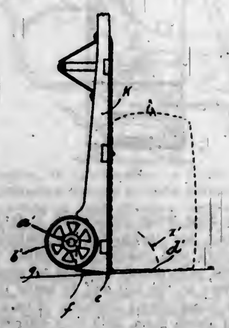
1. A sheet as described having an aperture, a transparent sheet closing one face of the aperture and a transparent sheet attached at the other face of the edge of the aperture with an open end to form a pocket for the reception of a signature card.

1,397,097. APPARATUS FOR HEAT-INTERCHANGE. JAMES M. HARRISON, Cleveland, Ohio. Filed May 19, 1920. Serial No. 382,525. 1 Claim. (Cl. 257—136.)



The combination, with a plurality of parallel containers for fluid and means for circulating fluid therethrough, of a heat-transferring plate interposed between each of said containers and the container adjacent thereto and arranged substantially parallel with said containers thereby to provide a fluid circulating duct or space on each side thereof, heat-transferring plates spaced from and parallel with the end containers, and front and back heat-transferring plates spaced from the fronts and backs of the said containers.

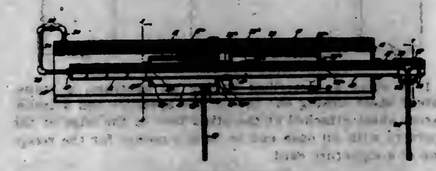
1,397,098. HAND-TRUCK. NELS HELLEM, Portland, Oreg. Filed Nov. 19, 1920. Serial No. 425,066. 2 Claims. (Cl. 280—61.)



2. In a hand truck, a frame provided at its lower end with a load carrying cross-bar, the plane in which lie the

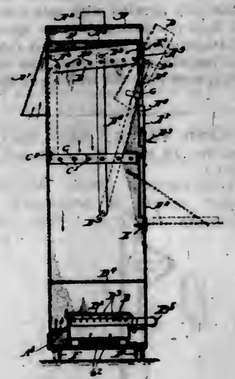
lower end of the truck frame and the rims of the truck wheels being arranged to make an obtuse angle with the plane in which said cross-bar projects, whereby the truck may be tilted forward and fulcrumed on that portion of its lower end which is coincident with the vertex of said angle, for the purpose described.

1,397,099. METHOD OF AND APPARATUS FOR TREATING AND HANDLING SULFUR. FRANK J. HILL, Sulphur, La. Filed July 6, 1920. Serial No. 394,377. 16 Claims. (Cl. 83—91.)



1. In an apparatus of the character described, an elongated steam jacketed casing having one end closed and the other end open, a conduit for molten sulfur extending axially of said casing to adjacent the open end thereof, a steam pipe leading axially through said conduit to the steam jacket of said casing, a nozzle for the molten sulfur carried by the outer end of said conduit having a series of spiral discharge orifices, a water drum arranged on said conduit and having a series of orifices whereby the discharge of said nozzle is sprayed with water to granulate the sulfur, a steam drum having a plurality of jet openings adapted to direct jets against the granulated sulfur to discharge the same through the open end of said casing, and a steam pipe from the jacket to the steam drum to supply the steam thereto.

1,397,100. DRIER. FRANCIS T. JOHNSON, Chicago, Ill. Filed Sept. 8, 1919. Serial No. 322,332. 10 Claims. (Cl. 34—19.)



9. A portable heat drier comprising a drying chamber having a doorway, and means for maintaining a circulation of air through said chamber, including double walls and door closures, said means adapted to cause the air to enter said chamber at the top and to leave it at the bottom, and a rack comprising a plurality of bars and a cover plate across and above them, said rack adapted to be held in position in said drying chamber and to be moved thence into position in the doorway.

1,397,102. METALLIC SEAL. WALTER J. KELLY, St. Louis, Mo. Filed Feb. 14, 1920. Serial No. 359,006. 2 Claims. (Cl. 292—327.)



1. A seal of the character described comprising a shank, a head mounted on one end thereof, a locking head formed on the opposite end of the shank for forming a recess on the periphery of the shank, the free end of the locking head being conical in form, a cap having a recess for the reception of the locking head and a recess of larger diameter formed in the bottom of the cap and a locking spring located in horizontal position in the large recess and arranged to spread and then engage with the under side of the locking head to prevent the head from being detached after once locked in position, substantially as specified.

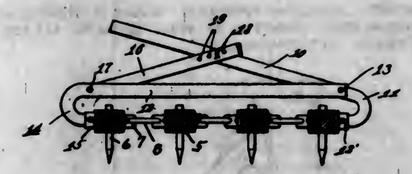
1,397,102. POLISHING COMPOSITION AND MAKING SAME. HARRY C. KNAB, Kansas City, Mo. Filed May 26, 1921. Serial No. 472,895. 3 Claims. (Cl. 134—24.)

1. A polishing composition, adapted for cleaning, varnishing and polishing a painted or varnished surface comprising the following enumerated elements mixed together in substantially the proportions specified, liquid measure, benzin twenty-five parts, turpentine thirty-seven and a half parts, varnish twelve and a half parts, and paraffin oil twenty five parts, substantially as set forth.

1,397,103. PAINT. EINAR LANGFELDT, Boston, Mass. Filed Aug. 20, 1921. Serial No. 493,880. 15 Claims. (Cl. 134—42.)

11. A bituminous paint containing tar, cellulose acetate, naphthalene and acetone.

1,397,104. HARROW. ERNST WATSON MCNABB, Watertown, Tenn., assignor to United Harrow Mfg. Co., Inc., Watertown, Tenn. Filed July 13, 1920. Serial No. 395,880. 1 Claim. (Cl. 55—76.)



A harrow including a plurality of teeth bars, each bar having apertured lugs secured to opposite sides thereof, a link member having connection with the apertured lugs, a relatively long arm having a hooked member formed at one end of the arm, said hooked member having pivotal connection with one of the bars, a relatively long arm having one end thereof curved and connected to one of the outer bars and having its opposite end pivotally connected to the first mentioned arm, an adjusting arm having a plurality of openings formed adjacent to one end thereof and having one end pivotally connected to the second mentioned arm, means extending through the first mentioned arm and one of the openings of the adjusting arm for pivotally connecting the adjusting arm and first mentioned arm, and the free end of the last mentioned arm being constructed to act as a lever.

1,397,105. BRACKET. ARTHUR MAYER, Richmond Hill, N. Y., assignor to Edward V. Hartford, Inc., a Corporation of New York. Filed Mar. 11, 1918. Serial No. 221,582. 8 Claims. (Cl. 293—55.)



1. As an article of manufacture, a bracket for attaching a bumper to a vehicle comprising a substantially flat member having an angular portion, said bracket being adapted to lie against the web of a frame member of the vehicle whereby the attaching end of the bumper, the bracket and the web of the frame will occupy parallel planes.

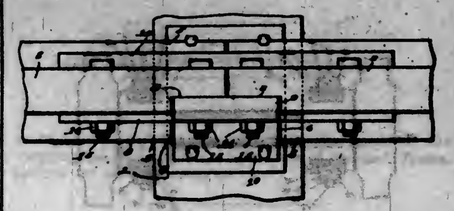
1,397,106. GARTER. ROBERT W. MERRITT, New York, N. Y. Filed July 25, 1919. Serial No. 313,182. 2 Claims. (Cl. 241—6.)



1. In a garter, a flexible flat strap disposed lengthwise upon a flexible strip having its ends adapted to be detachably fastened to the stocking of a person and loops on the ends of the strap through which the strip is disposed so that the strap may be moved back and forth between the ends of the strip.

1,397,107. RAIL-JOINT. ERIK L. NYLUND, Detroit, Mich. Filed Mar. 21, 1921. Serial No. 454,205. 1 Claim. (Cl. 238—231.)

In combination with the abutting ends of two railway rails which have their heads and their base flanges upon their outer faces notched at the abutting ends thereof and the said notches terminating in the plane of the webs of the said rails, of a supporting tie beneath the rails at the meeting ends thereof, said tie comprising a metal member integrally formed upon its upper face with a foot, a laterally extending plate on said foot, a head on said plate opposite the foot, said head and foot designed to be received in the notched portions of the heads and base flanges on the rails when the plate is received in the fishing spaces of the said rails, and transverse means connecting the rails to the plate.

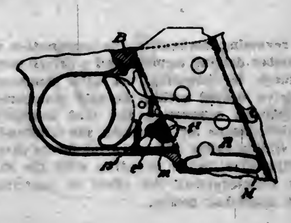


1,397,108. GUN-SIGHT. OSCAR V. PAYNE, Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 29, 1919. Serial No. 341,376. 17 Claims. (Cl. 33—56.)



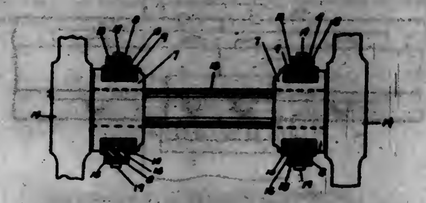
1. A gun sight including a rotary sighting member having means to provide a sight continuously and uninterruptedly operative in the line of sight at various positions in the arc of rotation, the said means being mounted eccentrically with respect to the axis of rotation of said member whereby the sighting means is raised or lowered by virtue of the eccentricity as the member is rotated.

1,397,109. FIREARM. JOHN D. PEDERSEN, Jackson, Wyo. Original application filed July 30, 1915, Serial No. 42,774. Renewed July 17, 1919, Serial No. 311,689. Divided and this application filed Dec. 12, 1919. Serial No. 344,419. 11 Claims. (Cl. 42—7.)



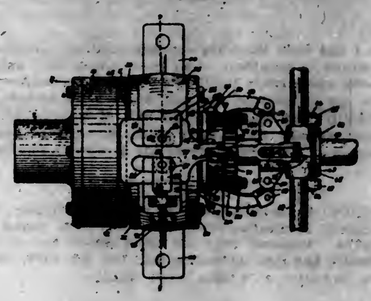
1. In a firearm, in combination, a frame of said firearm, a magazine chamber formed by said frame, a cartridge receptacle insertible in said chamber, and a magazine lock comprising a locking portion and a follower; said magazine lock being adapted to be inserted in said frame and prevented from revolving therein by engagement of the ends of said locking portion and said follower with said frame; said magazine lock when inserted in said frame being engagable with said cartridge receptacle to prevent or permit removal thereof when the same is inserted in said chamber.

1,397,110. LATERAL TAKE-UP FOR DRIVING-BOXES. JOHN JOSEPH PETERS, Colwich, Iowa, assignor of one-half to Norman B. Ahitt, Colwich, Iowa. Filed July 12, 1920. Serial No. 395,772. 11 Claims. (Cl. 64—25.)



11. In combination a driving box mountable in a frame; a shaft projected through said driving box; a wheel mounted on said shaft and spaced from said driving box; means for mounting said box in said frame so as to permit lateral movement with respect thereto; means engaging said mounting means and said frame for changing the relative position of said box to said frame to compensate for wear on said box; and means for retaining said engaging means in operative position, substantially as described.

1,397,111. REVERSING MECHANISM. JOSEPH V. PETRELLI, New Haven, Conn., assignor to The Navy Gear Manufacturing Corporation, New Haven, Conn., a Corporation of Delaware. Filed Apr. 21, 1917. Serial No. 163,591. 4 Claims. (Cl. 74—24.)



1. In a reversing mechanism, the combination with a sectional chamber driving member and a driven member, of a friction-clutch for coupling the said members for the forward drive located within the said chambered driving-member, gearing connecting the said members for the reverse drive, means for operating the friction-clutch, including a sliding collar and operating-levers carried thereby and adjustable means co-acting with the said sliding collar for counteracting the effect of centrifugal force upon such operating means.

1,397,112. WINDOW-OPERATING MECHANISM. LEONARD M. PHELPS, Philadelphia, Pa. Filed Jan. 18, 1918. Serial No. 212,491. 5 Claims. (Cl. 268—4.)

1. The combination of a window sash slidably mounted in a frame, a guiding rod, a weighted rod carried by said sash and engaging said guiding rod, means for limiting the sliding movement of said weighted rod upon said guiding rod, means carried by said sash for connecting said weighted rod thereto, means comprising a sash gripping lever adapted to engage said sash for holding the same in an open position, means for holding said gripping lever in engagement with said sash under certain normal conditions and disengaging said lever with said sash under certain abnormal conditions, such as rain or abnormal moisture.



1,397,113. MATERIAL FOR DECOLORIZING OIL AND METHOD OF PRODUCING THE SAME. PAUL W. PRUTZMAN, Los Angeles, Calif., assignor to General Petroleum Corporation, a Corporation of California. Filed Jan. 17, 1921. Serial No. 438,046. 4 Claims. (Cl. 252.)

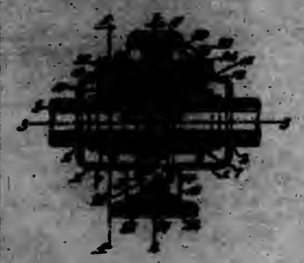
1. The method of producing a decolorizing material for oils which consists in reducing the mineral montmorillonite to a plastic condition, treating the plastic material with acid, washing the acid from the mineral, and pulverizing the mineral so washed.

1,397,114. MULTIPLE-BIT UNDERREAMER. AUGUST L. SWANKOST, Whittier, Calif. Filed Mar. 28, 1921. Serial No. 456,864. 5 Claims. (Cl. 255—75.)



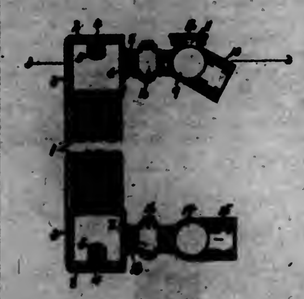
1. In an underreamer; a body having a tapered recess extending into the lower end thereof; a circular shoulder in said recess; a center block extending into said recess having a central bore and slots extending radially therefrom; a flange on said center block engaging said shoulder; bolts in said body engaging said center block; a mandrel slidably mounted in said body, radially extending arms on the lower end of said mandrel; a plurality of cutting legs; shanks on said legs extending into said recess and each having an arm receiving opening therein; a spider on the upper end of said center block; bars on said spider extending into the slots in said center block; a cutted spring on said mandrel above said spider; and means on said mandrel for confining said spring.

1,397,115. SELF-OILING BEARING. HARRY J. SMITH, Lakewood, Ohio. Filed Aug. 19, 1918. Serial No. 250,414. 4 Claims. (Cl. 64—24.)



1. A self oiling bearing comprising a tubular outer body, an inner tubular bearing formed integrally with said body, an oil ring mounted in said body, and an oil conducting member engaging said ring and extending to said bearing.

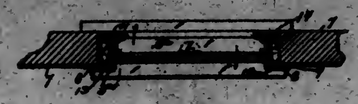
1,397,116. RADIATOR. WILLIAM SPARKS, Jackson, Mich., assignor to The Sparks-Withington Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 4, 1917. Serial No. 184,448. 1 Claim. (Cl. 257—120.)



A radiator comprising a plurality of separate radiator units arranged side by side and each unit comprising an upper water chamber and a lower water chamber connected by a water tube, one of said water chambers provided with an inlet for the fluid and the other of said water chambers provided with an outlet for fluid, a source of fluid connected to the inlet of each of said units and valves for disconnecting any one of said units from said source of fluid, a discharge for fluid connected to the outlet from each of said units, valves for disconnecting any one of said units from the said discharge for fluid, a band extending around the assembled radiator units, and means for securing each unit to the band.

1,397,117. WINDOW. JOHN V. SUGG, Dawson Springs, Ky. Filed Feb. 13, 1920. Serial No. 358,461. 2 Claims. (Cl. 20—51.)

1. A window comprising a main frame carrying central pivots, a swinging frame mounted on said pivots and within the said main frame, sashes hung within the said swinging frame, sash weights for said sashes and means for normally preventing the rotation of said swinging frame, said main and swinging frames having inner and outer facing members adapted, when said swinging frame



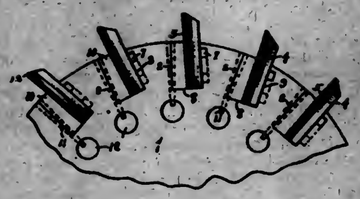
is in normal position, to form with the jambs of the swinging frame and the opposite sides of the main frame, pockets for said sash weights.

1,397,118. CHECK-WRITER. CHARLES G. TEEPLE, Rochester, N. Y., assignor to Todd Protectograph Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 4, 1919. Serial No. 280,647. 13 Claims. (Cl. 101—30.)



12. In a machine of the class described, the combination of a type carrier having on its face a separate type form for each of the words which the machine is constructed to print, each of said forms comprising a group of letters graduated in height from one end of the form toward the other, and means for taking impressions selectively from said forms.

1,397,119. MILLING-CUTTER. FREDERICK WIARD, Detroit, Mich., assignor to American Standard Tool Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 19, 1921. Serial No. 438,311. 3 Claims. (Cl. 29—105.)



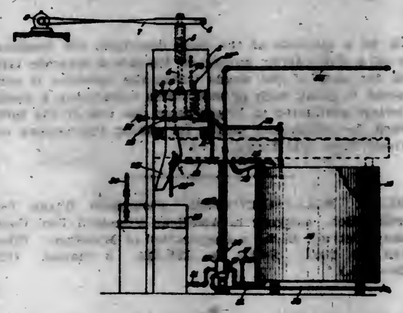
3. In a milling cutter, a body having longitudinal slots whose front walls are radial and formed with radial grooves, the rear walls of the slots being parallel to the front walls and having inclined grooves at less than forty-five degrees to the axis of the cutter, teeth mounted in said slots and having projections extending into said grooves, locking blocks in the slots and provided with radial grooves in their front faces, pins to lock the blocks and teeth in position, and spacing strips adapted to lie in said slots beneath the teeth.

1,397,120. HOSE-HOLDER. John W. Ames, Chicago, Ill. Filed Oct. 22, 1920. Serial No. 418,017. 6 Claims. (Cl. 24—252.)



2. A rope holder comprising a frame, corrugations on the face of said frame curved outwardly between their ends, a lever pivotally mounted on said frame, corrugations on said lever having an inward curvature corresponding substantially to the outward curvature of said first named corrugations, a rounded fork on said lever for engagement by a rope for forcing the corrugations of the lever toward the corrugations of the frame, and a loop on the back of said lever for the attachment of the free end of said rope, substantially as and for the purposes described.

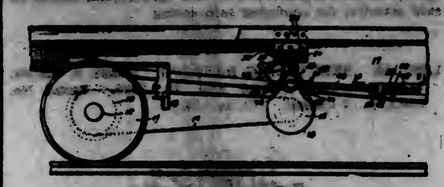
1,397,121. PROCESS FOR THE PURIFICATION OF CRYSTALS CONTAINING FOREIGN MATERIALS OF A DIFFERENT SPECIFIC GRAVITY THEREFROM. Arthur A. Backhaus, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed June 24, 1913. Serial No. 241,653. 2 Claims. (Cl. 23—34.)



1. The method of purifying crystals containing admixed foreign materials of a density less than said crystals but greater than the density of water, comprising agitating the crystals in the presence of a substantially saturated solution of the crystal substance in order to keep suspended said impurities and removing the supernatant liquid containing the suspended impurities which separate from the crystals lying at the bottom of the liquid, allowing said impurities to settle out from the liquid, and reusing the liquid to repeat the treatment on a new batch of crystals.

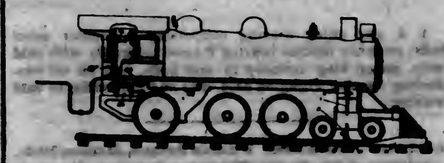
1,397,122. GENERATOR SUSPENSION. David N. Batchelor, Philadelphia, Pa., assignor, by mesne assignments, to Electro Dynamic Company, a Corporation of New Jersey. Filed Sept. 22, 1916. Serial No. 121,388. 16 Claims. (Cl. 105—108.)

15. A bracket for supporting a dynamo from a car body, comprising a plate having a central aperture therein adapted to receive a supporting bolt, and a plurality of ears disposed symmetrically about said aperture and adapted to receive supporting bolts, thereby permitting



extensive angular adjustment of said plate about its central axis, and members depending from said plate for supporting the dynamo.

1,397,123. AUTOMATIC TRAIN-STOPPING DEVICE. George W. Edwards, Toledo, Ohio, assignor, by direct and mesne assignments, to The Commercial Savings Bank and Trust Company, Toledo, Ohio. Filed Sept. 22, 1919. Serial No. 325,315. 4 Claims. (Cl. 246—186.)



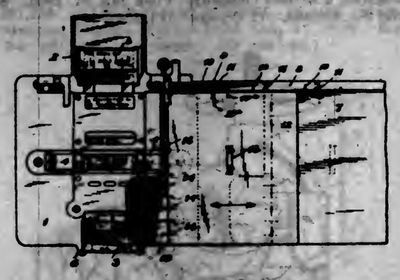
4. In an automatic train controlling mechanism, a piston and cylinder member for moving the throttle toward closed position upon reduction of pressure in the air brake system, a branch pipe connected with said air brake system, a trip operated valve in said branch pipe which when tripped causes reduction of pressure in the air brake system and consequent setting of the brakes and closing of the throttle, said branch pipe passing in such proximity to the steam cylinder that it will always be heated thereby, said branch pipe passing through the steam cylinder casing between the lagging and the cylinder.

1,397,124. STONE-SETTING TOOL. Otto W. Jonas, Chicago, Ill. Filed June 19, 1920. Serial No. 390,061. 3 Claims. (Cl. 51—7.)



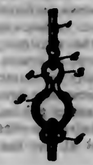
1. A stone setting tool comprising a head having a socket therein; and a plurality of recessed grooved, having their outer ends equally spaced apart, formed in the walls of said socket sliding the prongs of the setting, substantially as described.

1,397,125. SHEEP-CAGE FOR ASSEMBLING-MACHINES. Emanuel Jonas, New York, N. Y. Filed Aug. 9, 1921. Serial No. 490,934. 6 Claims. (Cl. 104—118.)



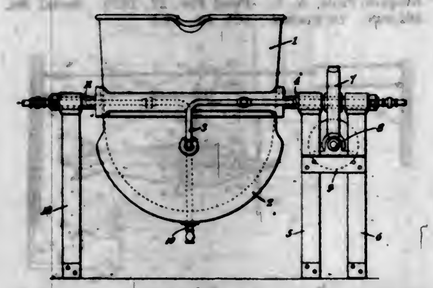
1. A device of the class described comprising a support having a scale, a slidable gage member movable on said support, said gage member having an abutment for a sheet and a scale on said abutment.

1,397,126. NOOSE-FORMING DEVICE. James A. Kennum, Lovington, N. Mex. Filed Apr. 8, 1921. Serial No. 459,558. 3 Claims. (Cl. 24—129.)



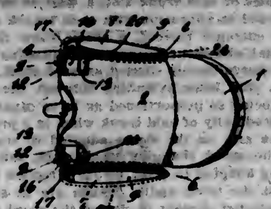
3. As a new article of manufacture, a noose forming device comprising a resilient member having two ends curved to form a loop and a pair of curved jaws meeting at their terminals, said terminals being curved over upon themselves so as to form a smooth entrance for a cable for the purpose and in the manner described.

1,397,127. PROCESS OF REFINING OXALIC ACID. Dezső E. Kelen, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Oct. 22, 1917. Serial No. 197,848. 3 Claims. (Cl. 23—24.)



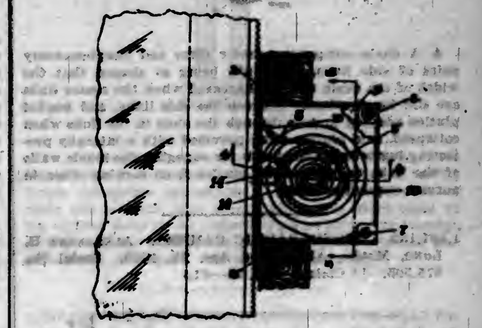
2. The process of refining crude oxalic acid comprising dissolving it in about one-half its weight in water, bringing to near the boiling point, removing the insolubles, crystallizing the acid, agitating the liquid to separate the crystals from suspended matter present, decanting the latter, re-dissolving the crystals and purifying through an absorbent of coloring matter, and re-crystallizing the acid.

1,397,128. SADDLE ATTACHMENT. Terrence W. Kennedy, Eightlum, Mont. Filed Nov. 10, 1920. Serial No. 423,160. 6 Claims. (Cl. 54—46.)



6. A saddle attachment comprising supporting members mounted on opposite sides of the saddle, pads carried by said supporting members for engagement by the thigh portion and knees of the legs of a rider in the saddle, and leg engaging and protecting means hinged to said supporting members for engagement with the outer sides of the rider's legs.

1,397,129. WINDOW-SASH COUNTERBALANCE. Gustaf E. Klein, Chicago, Ill. Filed Aug. 9, 1920. Serial No. 402,206. 7 Claims. (Cl. 16—201.)



6. An article of the class described comprising a casing; a coiled spring mounted in said casing; a spring winding gear mounted in said casing and interlocked with said spring; a locking member adjustably mounted and adapted to interlock with said winding gear; manual means for moving said locking member; means for automatically retaining said locking member in any moved position; and coöperating means in said casing and on a window sash whereby said window sash may be counter-balanced, substantially as described.

1,397,130. POWER CONTROL FOR MOTOR-VEHICLES. John M. Lansden, New York, N. Y. Filed Dec. 2, 1918. Serial No. 264,892. 1 Claim. (Cl. 74—30.)



A motor vehicle comprising elements adapted to change the speed ratio between the engine and driving wheels

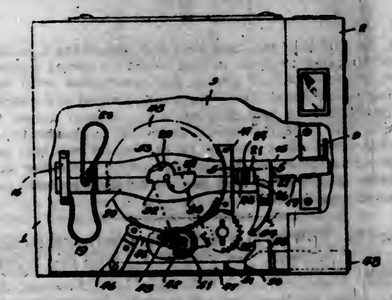
thereof, a quadrant carried by the vehicle, said quadrant comprising a plate having an elongated trunk slot therein, there being a plurality of branch slots communicating with opposite sides of said trunk slot, a wall of the trunk slot being disposed in alinement with each branch slot and opposite the entrance thereof, a shaft below the quadrant and in axial alinement with the longitudinal dimension thereof, a sleeve loosely carried on said shaft, a lever on the sleeve, said lever extending through the trunk slot, said lever being so proportioned as to be capable of movement longitudinally of said trunk when in a predetermined position, an arm on the sleeve adapted to engage an element of the speed changing mechanism, said lever and sleeve being adapted to pivot in one direction only on the shaft when the lever and a branch are in alinement to shift the selected element to change the speed ratio.

1,397,131. SEPARABLE-LINK CHAIN. James C. Law, Scranton, Pa., assignor to Wilmot Engineering Company, Hazleton, Pa., a Corporation of Pennsylvania. Filed Mar. 9, 1921. Serial No. 451,013. 4 Claims. (Cl. 74—32.)



4. A chain comprising center links and complementary pairs of side links, said links being so shaped that the width of the chain may be decreased when the center links are slid longitudinally between the side links, and headed pintles adapted to pass through the slots in the links when collapsed, said pintles being provided with a laterally projecting lug between the heads for engaging the inside walls of the links to prevent the pintles from turning when in normal coupled position.

1,397,132. PHOTOGRAPHIC CAMERA. Alexander H. Long, Mobile, Ala. Filed Apr. 21, 1920. Serial No. 375,505. 11 Claims. (Cl. 95—31.)



1. In a photographic camera including a shutter mechanism and a film winding mechanism, a member including portions adapted to alternately lock the shutter mechanism and the winding mechanism, a set member for the lock member, a connecting spring between the lock and set members, a projecting spring adapted to be tensioned by the set member, means for holding the lock member clear of the shutter mechanism, and means adapted to be actuated by the shutter mechanism to effect release of the lock member whereby it is automatically projected into operative position to prevent movement of the shutter mechanism until the winding mechanism is operated to bring a new portion of the film in position for receiving the next picture.

1,397,133. MACHINES FOR MAKING PNEUMATIC-TIRE COVERS OR CASINGS. Chas Macnair and Frank Fellows, Birmingham, England, assignors to The Dunlop Rubber Company, Limited, Westminster, London, England, a British Company. Filed Jan. 31, 1921. Serial No. 441,464. 12 Claims. (Cl. 154—10.)

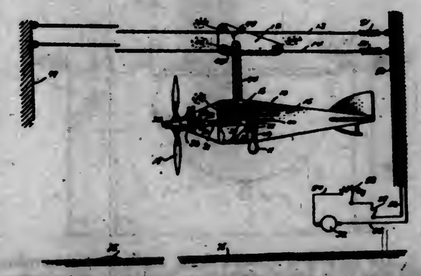


1. A bead trimming device for case making machines comprising pivoted knife arms or levers mounted on an angularly movable support or frame and an actuating lever adapted to be moved in the vertical plane of the core in order to move the knife arms or levers from an inoperative position into a position ready for cutting whereupon a continued movement of the actuating lever in the same direction causes lateral movement of the knife arms or levers on their pivots to bring the knives or cutters into engagement with the surplus material at the beads of the casing on the core.

1,397,134. MAKING TRICHLORETHYLENE. John B. MacMillan, Niagara Falls, N. Y., assignor to Niagara Alkali Company, Niagara Falls, N. Y., a Corporation of New York. Filed Aug. 2, 1920. Serial No. 400,707. 8 Claims. (Cl. 23—24.)

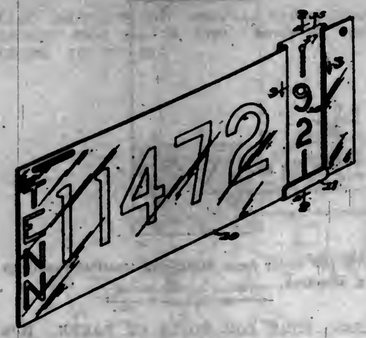
1. The process of partially dechlorinating acetylene tetrachlorid to form trichlorethylene which comprises heating tetrachlorid with lime in the presence of water and of a non-caustic sodium compound.

1,397,135. AMUSEMENT DEVICE. Jubert G. Malouf, Niagara Falls, N. Y. Filed Feb. 27, 1920. Serial No. 361,908. 10 Claims. (Cl. 46—69.)



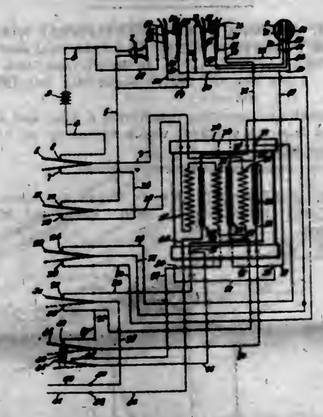
4. An amusement device characterized by having, in combination with a returnable object, an object supporting means, propelling means for the supporting means, an object releasing means comprising a trigger, mechanically operated means for actuating the trigger, and ushable means associated with the trigger and actuated by the movement of the propelling means for releasing the object step by step.

1,397,136. AUTOMOBILE NUMBER-PLATE. Roy R. Melton, Camden, Tenn. Filed Aug. 31, 1920. Serial No. 407,262. 3 Claims. (Cl. 40—63.)



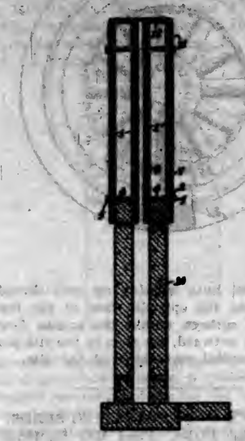
1. In an automobile number plate, a body having a portion throughout the vertical dimensions of the plate proper extending rearwardly, the edges of the rearwardly extending portion being doubled on the plate and spaced from the plate to form guide-ways, an integral ear on the lower edge of the rearwardly extending portion, the said ear being shaped to embrace the lower ends of the guide-ways and extending upwardly to guard the lower ends of the said guide-ways, and a year plate slidable in the said guide-ways having its lower end embraced by the said ear.

1,397,137. PORTABLE TELEPHONE APPARATUS. Alexander McLaurin, Mattoon, Ill. Filed Oct. 5, 1918. Serial No. 256,999. 10 Claims. (Cl. 179—29.)



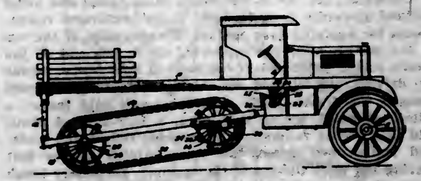
1. In a telephone apparatus, the combination of a transmitter, a receiver having a plurality of magnetic coils, an induction coil, a primary circuit including said transmitter and the primary of said induction coil, a secondary circuit including the secondary of said induction coil, switch means whereby the receiver may be connected in the secondary circuit, and other switch means whereby the magnetic coils of the receiver may be connected either in series or in parallel, said last named means also adapted to connect said transmitter in series with said receiver, substantially as described.

1,397,138. CONCRETE-FORM. Charles G. Mibus and John J. McKay, Salamanca, N. Y. Filed Aug. 29, 1920. Serial No. 404,730. 6 Claims. (Cl. 25—131.)



1. A concrete form comprising spaced plates, there being holes in said plates, the holes in one plate having larger transverse dimensions than the holes in another plate and a metal bolt correlated to the exact sizes of the various holes in the respective plates extending through said plates, for holding the plates in spaced relation and preventing movement relative to each other.

1,397,139. TREAD-BELT ATTACHMENT FOR TRUCKS. Ray H. Muscott, Swan Creek, Mich. Filed Sept. 25, 1918. Serial No. 255,724. 9 Claims. (Cl. 180—9.1.)

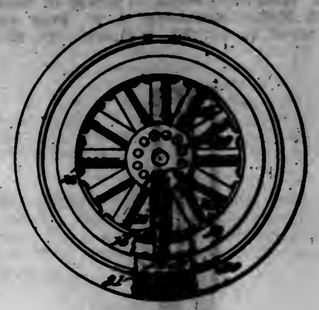


1. The combination with a motor vehicle; of a tread belt structure comprising a frame, tread belts carried by the frame, a swivel bolt projecting from the forward end of the frame, means for resiliently connecting the swivel bolt with the vehicle frame, and means for resiliently connecting the rear end of the tread belt frame with the vehicle frame.

1,397,140. RESILIENT WHEEL. Henry Nichols, Newark, N. J. Filed Apr. 21, 1919. Serial No. 291,690. 1 Claim. (Cl. 152—48.)

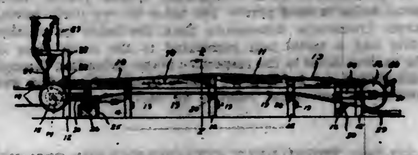
A wheel of the character described comprising a hub, a felly provided with side flanges, tubular spokes rigidly connecting the hub and the felly, a rim of approximate

U-rings slidably mounted between said flanges and provided with a fiber, the inner wall of said rim having longitudinal slots formed therein, plungers working in said spokes and bearing against the inner wall of the rim, said plungers having reduced threaded portions extended



through said slots, nuts working on said threaded portions and engaging the opposite face of the inner wall of said rim, and springs within the spokes forcing the plungers normally outward, the slots in the rim permitting limited circumferential movement of the rim.

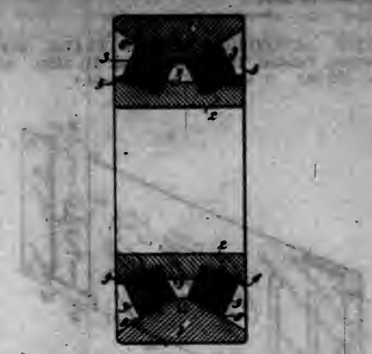
1,397,141. DEVICE FOR SEPARATING SEEDS. FRANK C. NOURSE, Boise, Idaho. Filed May 13, 1919. Serial No. 296,820. 1 Claim. (Cl. 130—18.)



A device of the character described comprising a supporting frame, a casing of inverted trough shape carried by the frame, the top of the casing being closed and being inclined upwardly from its ends to its transverse center, means for applying heat against the underside of the top of the casing, a hopper supported above one end of the frame, rollers journaled at the ends of said frame, means for driving one of said rollers, a water tank disposed beneath the frame, guide rollers beneath said frame, a roller journaled within said tank, a belt trained about said first named rollers, over the guide rollers and under said last named roller, the upper stretch of the belt bearing flat upon the top of the casing, a stationary brush carried by the frame at the end remote from the hopper and bearing lightly against the belt, and a scraper engaging against the lower side of the lower stretch of the belt at a point subsequent to its engagement by the brush.

1,397,142. ROLLER-BEARING. NILS ARVID PALMGREN, Gottenborg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden, a Corporation of Sweden. Filed Oct. 13, 1919. Serial No. 330,402. 15 Claims. (Cl. 64—39.)

1. In a roller bearing, the combination of an inner race, an outer race, conical rollers, at least one pressure flange preventing the rollers from moving in direction toward their large ends, and at least one guide flange against which each roller bears in at least two points which lie either one anterior to the rolling direction so that said guide flange together with said pressure flange



prevents the roller from displacing itself obliquely to the rolling direction.

1,397,143. CORE FOR ROLLS OF PAPER. HOWARD PARKER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of New Hampshire. Filed Dec. 23, 1919. Serial No. 346,946. 9 Claims. (Cl. 242—68.)



1. A bushing for tubular cores having a notch at one end and clenching fingers springing from the sides of the notch, said fingers being in length greater than one-half the width of the notch.

1,397,144. MANUFACTURE OF ARTIFICIAL WOOD OR OTHER PLASTIC BODIES. HERMANN PLAUSON, Hamburg, Germany, assignor to D. R. Rotman, New York, N. Y. Filed Feb. 8, 1921. Serial No. 443,422. 6 Claims. (Cl. 106—22.)

1. A plastic composition comprising a filler and a resin condensed from an aldehyde and a ketone by an alkaline condensing agent.

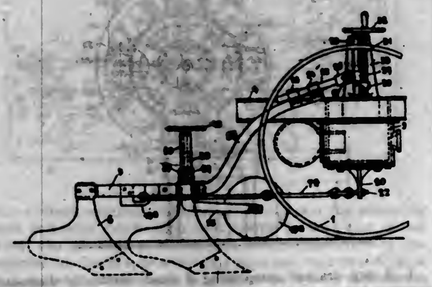
1,397,145. PIPE-JOINT. HENRY GUION PLUMMER, Oakland, Calif. Filed July 21, 1920. Serial No. 397,900. 6 Claims. (Cl. 285—64.)



3. A pipe joint comprising a ball section having a machined outer surface, a socket section receiving the ball

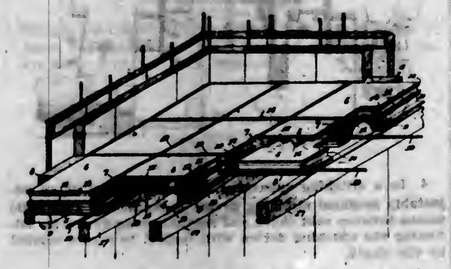
section and of sufficient width to extend past the crown of the ball section in both directions whereby when fitted thereon it will be held irremovable but can be moved freely upon the ball section, the said ring having its inner surface machined to condown to the ball section and shrunk upon the ball section whereby it will be irremovable when fitted thereon as and for the purposes set forth.

1,397,146. MOTOR-PLOW. HERMANN RÜDDY, Jestetten, Germany. Filed Dec. 10, 1920. Serial No. 429,724. 2 Claims. (Cl. 97—30.)



1. In a motor plow of the character set forth, in combination with a truck chassis including a steering column and steering wheels journaled thereon, a plow frame of substantial triangular shape and approximately half the width of said truck chassis, the long side of said plow frame extending substantially in the median line of said truck chassis passing through the center of said steering column, a wheel adjustably supporting the long side of said plow frame, an upwardly curved member adjustably supporting the other side of said plow frame, and an articulated draw-connection between said plow frame and said truck chassis.

1,397,147. FLOOR CONSTRUCTION. FRANK MCMURRAY SAWYER, Los Angeles, Calif. Filed Jan. 12, 1920. Serial No. 350,801. Renewed Apr. 18, 1921. Serial No 461,674. 2 Claims. (Cl. 72—66.)



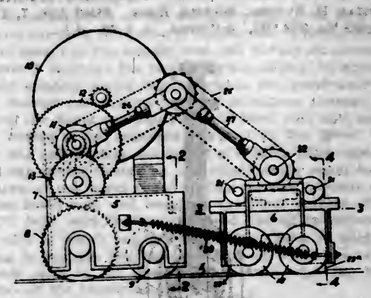
1. In a floor construction, ceiling slabs having projecting edges below their upper surfaces adapted to contact with each other to form a finished ceiling of the lower sides of the slabs, the edges of said ceiling slabs above the projecting edges being grooved to form recesses between the slabs and undercut upper edges or key-ways for supporting the slabs in position, floor slabs having upper sides to form the finished floor surface mounted upon said ceiling slabs and provided with undercut upper edges which lie spaced from each other to form grooves communicating with the recesses between the ceiling slabs, and concrete beams formed in said grooves and undercut recesses between the slabs.

1,397,148. CABLE-OUTLET OF MAGNETO-ELECTRIC-IGNITION MACHINES FOR INTERNAL-COMBUSTION ENGINES. JACQUES SCHNEIDER, Solothurn, ERNST HÜRLIMANN, Zochwil, and FRÉDÉRIC BILLON, Solothurn, Switzerland, assignors to the Firm Scintilla, Solothurn, Switzerland. Filed Aug. 22, 1919. Serial No. 319,285. 2 Claims. (Cl. 123—149.)



1. A magneto electric ignition machine including a primary and a secondary winding, a casing, two symmetrically arranged insulating pieces for the leading out of two high tension leads from said secondary winding and a third insulating bush arranged symmetrically between said first mentioned insulating pieces for the leading out of a cable for short circuiting the primary circuit.

1,397,149. MACHINE FOR AND METHOD OF MAKING CORRUGATED WIRE-GLASS. ARNO SCHUMAN, Philadelphia, Pa., assignor to Pennsylvania Wire Glass Company, Philadelphia, Pa., a Corporation of New Jersey. Filed Feb. 3, 1920. Serial No. 356,015. 11 Claims. (Cl. 49—32.)



1. The method of making corrugated wire glass which consists in rolling a corrugated sheet of wire glass and repeatedly pressing the same corrugated parts of the rolled sheet while still hot, substantially as described.

1,397,150. SPRING-BRUSH FOR TIMERS. WALTER J. SPIRO, White Plains, N. Y., assignor to Hudson Motor Specialties Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 17, 1919. Serial No. 297,793. Renewed Sept. 22, 1921. Serial No. 502,666. 8 Claims. (Cl. 200—26.)

1. A device of the character stated comprising a hub, an

arm carrying a brush extended from said hub and means for permitting shifting of at least the outer end of said



arm in a direction substantially parallel with the longitudinal axis of said hub.

1,397,151. CLIP. HENRY A. STAAB, Milwaukee, Wis. Filed Jan. 24, 1921. Serial No. 439,548. 4 Claims. (Cl. (Cl. 24—66.)



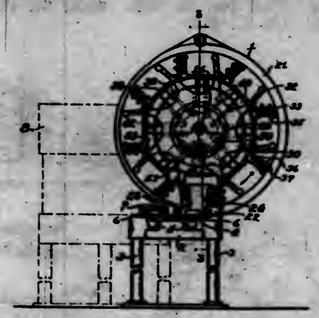
1. A clip comprising a base provided with a sleeve at each side, wire frames journaled at one side in the sleeve, one frame being journaled at each side of the base and extending toward the other side thereof, a spring urging the extending side of each frame toward said base, one of said wire frames extending through the other frame and provided on its outer end with laterally extending lugs to prevent its removal from the outer frame.

1,397,152. CRANK-SHAFT-DRESSING MACHINE. JOSIAH H. SUTTER, Wichita, Kans. Filed Apr. 7, 1920. Serial No. 372,102. 4 Claims. (Cl. 82—4.)



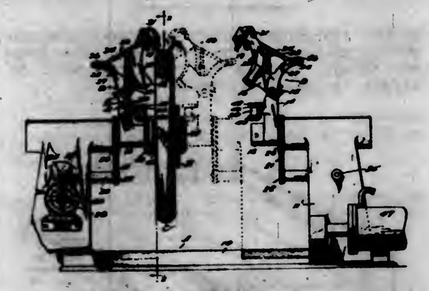
1. In the crank-shaft dressing device, a yoke comprising upper and lower members hinged together, self-centering arms mounted in the lower member, a screw for adjusting said arms, a block mounted in the upper member of said yoke, means for adjusting said block, removable cutting knives and adjustable cutting gages mounted in said block, and means for adjusting said gages, substantially as shown and described.

1,397,153. CAN-DRAINER. ALBERT R. THOMPSON, San Jose, Calif., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif., a Corporation of California. Filed Mar. 17, 1921. Serial No. 453,194. 20 Claims. (Cl. 226—22.)



1. A can drainer comprising a fixed vertically disposed annular housing adapted to receive a can at its base on one side and to discharge it at its base on the other side; means within said housing to press the can against the inner surface of the housing periphery; and means within the housing to move the can therethrough from its reception to its discharge, in a path effecting its complete rotation about its transverse axis.

1,397,154. TIRE-MAKING MACHINE. ROLAND S. THORNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed July 20, 1918. Serial No. 245,931. 24 Claims. (Cl. 154—10.)

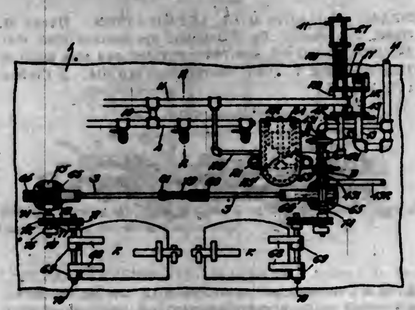


4. In a stitching apparatus, the combination of an adjustably mounted stitching device, a chuck, and automatic means between said chuck and said stitching device for adjusting the stitching device with respect to a core carried by the chuck.

1,397,155. SMOKE-PREVENTER. BRADFORD L. AMES, Boston, Mass., assignor to Thankful H. Ames, Barnstable, Mass. Filed Sept. 11, 1918. Serial No. 253,633. 12 Claims. (Cl. 110—55.)

5. In a smoke preventer for a boiler furnace, having a fire door, a cylinder outside of the furnace a steam pipe leading from the boiler to said cylinder a steam pipe leading from said cylinder having connections for injecting a

blast of steam into the furnace, a valve connected with said cylinder which controls the passage of steam from said cylinder to the pipe which leads to the injector, means for normally retaining said valve closed, a steam pipe which is adapted to supply steam from the boiler to release said detent mechanism on the said valve, a second



valve which controls the admission of steam for actuating said releasing mechanism and which is normally closed when the fire door is closed, and means controlled by the opening of the fire door to open said last mentioned valve and thereby admit steam to release the detent mechanism from the first valve, whereby steam is admitted to the injector.

1,397,156. OPTICAL INSTRUMENT. ALFRED BAUMANN, Cassel, Germany. Filed July 28, 1919. Serial No. 313,961. 3 Claims. (Cl. 88—33.)



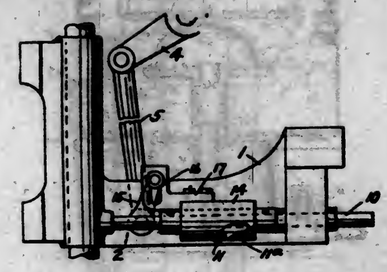
1. In an optical instrument of the character set forth, in combination, an apertured supporting plate, an ocular, prisms, an objective, and a separate protective cap for each of said prisms, all directly mounted upon said supporting plate.

1,397,157. RADIUS-ROD CONNECTION. ALEXANDER G. BEST, Vineland, N. C. Filed Sept. 14, 1920. Serial No. 410,066. 1 Claim. (Cl. 267—66.)



The combination with a vehicle including radius rods, of a bifurcated extremity for the front ends of said rods for receiving the front axle of the vehicle, said extremity being formed with a notched brace for engagement with the boss formed on the axle and a flat extension spaced beneath the brace, said space receiving one edge of the lower flange of the axle and the flat extension of the rod being bent over upon the opposite edge of the bottom flange.

1,397,158. SLICING-MACHINE. WILLIAM F. H. BRAUN, Philadelphia, Pa., assignor to The Braun Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 2, 1921. Serial No. 448,981. 6 Claims. (Cl. 17—24.)



2. In feed mechanism for slicing machine meat tables the combination of a traveling carriage, a reciprocatable nut and an oscillatory shaft coöperating with the nut and mounted on the carriage, the combination and construction being such that movement of the carriage reciprocates the nut and the reciprocation of the nut oscillates the shaft, substantially as described.

1,397,159. DETACHABLE FASTENING FOR UMBRELLAS AND THE LIKE. WILLIAM HENRY BERKLEY, Baltimore, Md. Filed Aug. 6, 1914, Serial No. 855,422. Renewed Feb. 16, 1918. Serial No. 217,711. 5 Claims. (Cl. 135—46.)



3. In an umbrella or the like, the combination of a hollow rod having a latch slot, a handle tube, a dowel permanently seated in the handle tube and having an extension removably entering the rod, a spring having an approximately straight shank located within the dowel near one side thereof and having a head extending through the wall of the dowel and engaging said latch slot, said spring also having a lug engaging a socket in the dowel wall near one end of said shank and a holding piece separate from the spring having an end substantially equal to the diameter of the dowel and extending through opposite slots in the dowel wall and engaging the inner surface of the handle tube, said holding piece also having an extension, one edge of which engages the spring shank to hold the spring in position and the other edge of which lies in one of said slots in the dowel and engages with the inner surface of the handle-tube.

1,397,160. COMBINATION GAS STOVE AND BURNER. EDWARD A. CAMPBELL, Kenosha, Wis. Filed Apr. 26, 1921. Serial No. 464,594. 6 Claims. (Cl. 158—60.)

1. A gas burning stove unit comprising a bell-base, having its lower edge offset to form an annular air supply passage, an open ended mixing tube extending into the base having auxiliary air ports therein about its lower open end and within the base, a gas discharge nipple associated with the lower end of the mixing tube, a collar extending from the upper end of the mixing tube, a removable dome fitted to the collar having a corrugated edge forming an ignition mouth in connection with the collar,

a deflected disk mounted upon the dome, and a drum supported by the base bolstering the dome, the drum being provided with an air inlet open at its bottom and a series of vent apertures at its top portion.



1,397,161. PACK-SACK. Tobias Clemetson, Duluth, Minn. Filed Mar. 12, 1920. Serial No. 365,174. 1 Claim. (Cl. 224—8.)



A pack-sack consisting of a flexible receptacle having a closure flap at its upper end adapted to fold down on the rear side of the receptacle, a pair of shoulder-straps fastened to the front side of the receptacle and extending down the front side and around the under side and up the rear side of the receptacle, to which side the shoulder-straps are fastened, each of the upwardly-extending ends of the straps being provided with a buckle, and a pair of load-sustaining and load-shifting straps adjustably connected to said buckles and extending upwardly and forwardly over the top of the receptacle, and means for adjustably attaching these straps to the front sides of the shoulder-straps, for the purpose set forth.

1,397,162. SOAP-BUBBLE DEVICE. Michael G. Dossins, Philadelphia, Pa. Filed Nov. 13, 1920. Serial No. 423,896. 2 Claims. (Cl. 46—31.)



1. The combination, with a bubble-blowing device comprising a fluid-container having a conical outlet forming a seating, of a vertically movable damper including an open ended cylindrical portion and an entirely longitudinal operating member, said damper when raised and lowered being adapted to deposit a film of the fluid over the mouth of the conical outlet.

1,397,163. ROLLING-MILL LUBRICATION. Harry R. Gehr, Johnstown, Pa. Original application filed Feb. 14, 1920, Serial No. 358,783. Divided and this application filed Oct. 7, 1920. Serial No. 415,304. 2 Claims. (Cl. 184—5.)



2. In a universal mill, provided with driving shafts for the vertical rolls, a gear mounted on one end of each vertical roll, a sliding gear splined on each driving shaft and adapted to mesh with the gear on the corresponding vertical roll, means for rotating the driving shafts, a longitudinal duct in each driving shaft, a means for supplying lubricant to said longitudinal duct, a plurality of transverse ducts in each driving shaft leading from the longitudinal duct to the surface of the driving shaft, and ball valves mounted in the outer ends of said transverse ducts and adapted to be operated by the sliding gear as it reciprocates on its respective driving shaft.

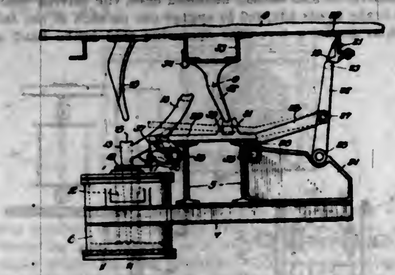
1,397,164. HOIST MECHANISM. John F. Godfrey, Elkhart, Ind. Filed Aug. 23, 1920. Serial No. 405,450. 9 Claims. (Cl. 254—185.)



1. In hoist mechanism, two side frames, three shafts supported by said side frames and extending therebetween, a hoisting drum and a reverse motion drum independently mounted on one of said shafts, gearing mechanism carried by said other two shafts for operating said hoisting and reverse motion drums, and brake mechanism operating upon said gearing mechanism associated with each drum.

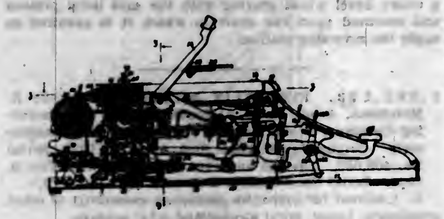
1,397,165. LOCKING MECHANISM FOR DUMP-CARS. Alexander M. Gow, Duluth, Minn. Filed Mar. 14, 1921. Serial No. 451,986. 4 Claims. (Cl. 105—271.)

2. In a dump car, a car body, a body bolster, a locking arm engaging at its lower end the body bolster and at its upper end the car body, the locking arm being adapted to be moved from a locking position to an unlocked position by pressure of the car body thereon, a locking member pivoted to the locking arm and provided with lugs, and a



member rigid with the car body and adapted to engage the lugs to move the locking member.

1,397,166. TYPEWRITING-MACHINE. Joseph B. Holden, Utica, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Mar. 2, 1920. Serial No. 363,675. 10 Claims. (Cl. 197—157.)



1. The combination with a ribbon vibrator and a universal bar, of a lever arm connected with said vibrator, a second lever arm connected with said universal bar, a wire connecting said arms, the wire passing through a slot in one of said lever arms, and an ear on the last mentioned lever arm through which ear said connecting wire passes, said ear being adjustable by bending to adjust the wire slightly lengthwise of said slot to regulate the leverage between said lever arms.

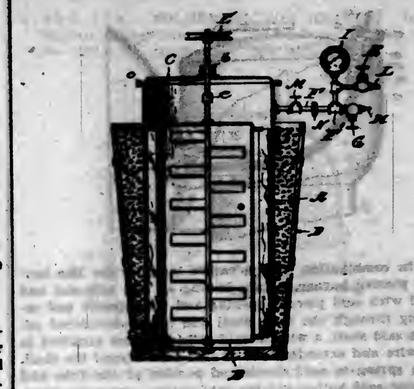
1,397,167. INLAY FOR REPAIR OF SCORED ENGINE-CYLINDERS AND METHOD OF MAKING SAME. Charles Horton, Los Angeles, Calif. Filed Jan. 19, 1920. Serial No. 352,641. 8 Claims. (Cl. 29—156.4.)



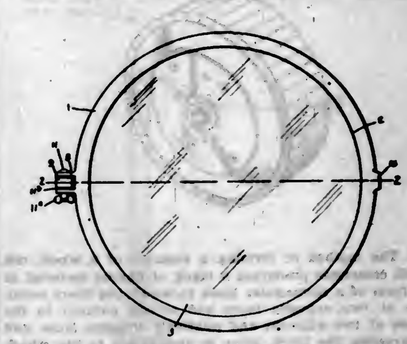
1. The method of building a metallic inlay in a cylinder wall consisting in forming a channel in the cylinder with inclined side walls and a grooved bottom wall, and placing a metallic inlay in the channel thus formed with the inlay filling the grooves in the channel.

1,397,168. CARBONATED ICE-CREAM AND PROCESS OF MAKING THE SAME. Mark J. Ingle, Washington, D. C. Filed Oct. 4, 1919. Serial No. 326,550. 1 Claim. (Cl. 99—8.)

A process for making an aerated dessert ice from an appropriate mixture, said process comprising first, evacuation of air from the mixture; second, passing an inert gas under pressure into the mixture; third, freezing the mixture and maintaining the material and gas under pressure during the freezing operation; and fourth, reducing the pressure to below atmospheric pressure after freezing to increase lightness of the material.

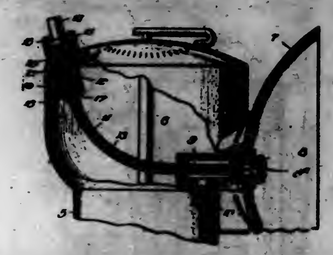


1,397,169. SANITARY COVER. Luther J. Isenhour, Indianapolis, Ind., assignor to Julius Kim, Pittsburgh, Pa., and Samuel R. Sorber, Greensburg, Pa. Filed Mar. 15, 1921. Serial No. 452,407. 1 Claim. (Cl. 217—83.)



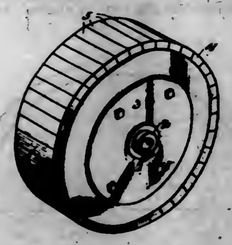
A cover for a receptacle comprising a frame having an opening therethrough, a pair of ears on said frame, a projecting lip on the frame diametrically opposite said ears, a transparent covering for the opening in the frame, means for locking the transparent covering over the opening, a clamping member, an ear on the clamping member adapted to coöperate with the ears of the frame for hinging the frame to the clamping member, a bolt extending transversely through said ears forming a pivot for said cover, a wing nut engaging one end of said bolt for clamping the ears together for holding the cover in various elevated positions, friction washers introduced between the pairs of ears and single ear, a rib on the clamping member for gripping parts of the receptacle for holding the clamping member in fixed position thereon, and a clamping bolt for removably locking the clamping member in position on the receptacle.

1,397,170. CLEANER FOR BURNERS OF CARBID-LAMPS AND THE LIKE. Jacob W. Jaggenow and John Emil Tuaja, Hancock, Mich. Filed Sept. 3, 1920. Serial No. 407,963. 5 Claims. (Cl. 158—120.)



1. In combination with a carbid lamp or the like having a pierced burner, a tube having an end adjacent and alined with said pierced opening and its opposite end extending through the lamp shell and being shouldered adjacent said shell, a wire in said tube, a button attached to said wire and extending out of said tube beyond the shell, and a spring in said shouldered portion of the tube and engaging said button to urge said button outwardly, pressure on said button serving to compress the spring and cause the wire to enter the burner.

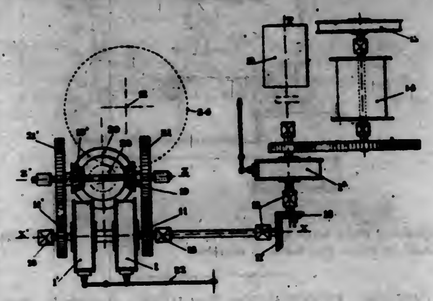
1,397,171. CASTER-WHEEL AND METHOD OF MAKING SAME. Charles W. Millet, Evansville, Ind. Filed Jan. 3, 1920. Serial No. 230,816. 3 Claims. (Cl. 16—75.)



1. The method of forming a segment of a wheel rim which comprises producing a blank of fibrous material in the form of a rectangular block in which the fibers terminate at two opposite faces and extend parallel to the planes of two adjacent and relatively opposite faces, and compressing the block, prior to application to the wheel, to segmental form by exerting pressure against the last mentioned faces and in increasing degree from one of the first mentioned faces to the other.

1,397,172. MECHANISM FOR REVERSING THE DIRECTION OF MOTION OF MACHINERY. Hubert Francois Henri Georges Miot, Vanves, France, assignor to Pierre Baruch Bernard and Anatole Louis Moutier, Paris, France. Filed June 2, 1920. Serial No. 385,883. 2 Claims. (Cl. 74—34.)

1. A reversing mechanism comprising the combination of a motor driven by electricity or otherwise with a shaft driven by said motor, two dynamometric brakes mounted upon said shaft, each having a single circular box loosely mounted on the driving shaft in which are placed two satellite systems each consisting of a wheel and pinion rigidly fixed together and mounted on the same spindle, said wheel engaging with a pinion fixed on the driving shaft and said pinion engaging with a wheel fixed on a sleeve concentric to and loosely mounted upon the driving shaft, two brake bands adapted to engage one on each of the said circular boxes, a lever for operating said brake band so

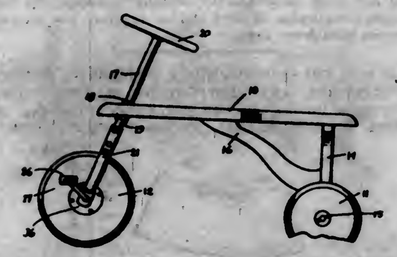


arranged that when one band is applied the other is released, two bevel pinions each being adapted to be driven through suitable gearing by one dynamometric brake, and a crown bevel wheel gearing with the said bevel pinions and mounted upon the shaft to which it is required to apply the reversing motion.

1,397,173. PYROXYLIN SOLVENT. Rowland B. Mitchell, Athol, Mass., assignor to Athol Manufacturing Company, Athol, Mass., a Corporation of Massachusetts. Original application filed Aug. 21, 1920, Serial No. 405,053. Divided and this application filed Feb. 9, 1921. Serial No. 443,639. 2 Claims. (Cl. 134—79.)

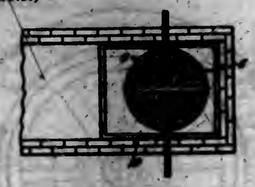
1. A solvent for pyroxylin consisting essentially of ethyl propionate, toluol, ethyl alcohol and ethyl acetate.

1,397,174. VEHICLE. Holton R. Morwood, Welland, Ontario, Canada. Filed Jan. 14, 1921. Serial No. 437,292. 2 Claims. (Cl. 206—35.)



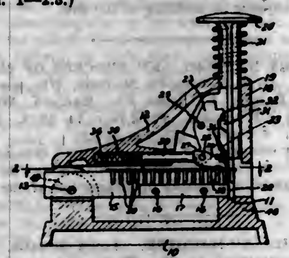
1. In a vehicle, the combination with a pedal actuated front wheel having a transverse passage through the center and a recess in one side into which one end of said passage opens, of a front axle, the portion in said passage being provided with projections and the diameter of the passage being such that the wheel turns freely around the axle with its projections, a ratchet wheel in said recess engaged by certain of said projections to rotate with said axle, a spring pressed pawl in said recess bearing against said ratchet wheel, and plates having openings for said axle fixed to the sides of said wheel to support the axle independent of the passage through the wheel and of the ratchet and pawl mechanism.

1,397,175. ART OF METAL-COATING METALLIC ARTICLES. Edward S. Mowry, Middletown, Conn. Filed Nov. 11, 1918. Serial No. 262,050. 4 Claims. (Cl. 91—69.8.)



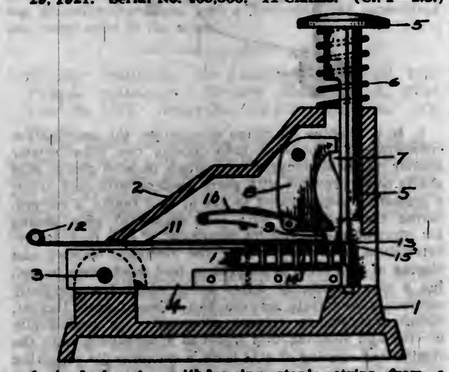
1. The method of coating metallic articles, with metal that consists in placing said articles in a container, then subjecting said articles to a bath of molten metal, and finally subjecting said container with the articles therein to a plurality of shock impulses applied uniformly over the bottom of said container.

1,397,176. STAPLE-DRIVING MACHINE. John Muth, Norwalk, Conn., assignor to The E. H. Hotchkiss Company, Norwalk, Conn., a Corporation of Connecticut. Filed Mar. 24, 1921. Serial No. 455,123. 29 Claims. (Cl. 1—2.3.)



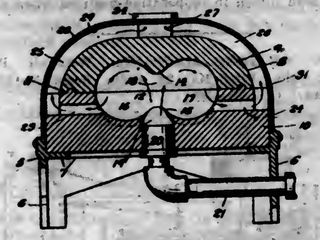
3. In a strip staple machine, the combination with means for supporting a staple strip and a plunger for severing and driving the individual staples, of means for feeding said strip comprising an oscillating plate operated by said plunger, a feed pawl pivoted to said plate and having a portion adapted to engage the top of said strip and a beveled lug adapted to engage under the staples thereof for holding said pawl in engagement with said strip during a feeding movement of the pawl, and a spring pressed plunger engaging said pawl.

1,397,177. STAPLE-REMOVER. John Muth, Norwalk, Conn., assignor to The E. H. Hotchkiss Company, Norwalk, Conn., a Corporation of Connecticut. Filed Apr. 29, 1921. Serial No. 465,366. 11 Claims. (Cl. 1—2.3.)



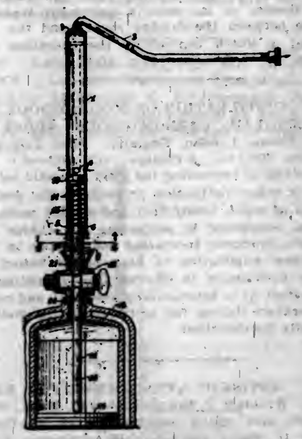
1. A device for withdrawing staple strips from a stapling machine including a handle adjacent one end, a head adjacent the opposite end and adapted to render the feeding mechanism inoperative, and means adjacent said head for engaging a staple strip to be withdrawn.

1,397,178. SOLDERING-IRON HEATER. Joseph Needham, New York, N. Y. Filed June 9, 1920. Serial No. 387,604. 10 Claims. (Cl. 126—237.)



7. A heater of the class described comprising a frame, a furnace body mounted in said frame to form a chamber at the sides and top portion of said body, said body being provided with a combustion chamber which open outwardly through one end of said body, a burner device in communication with said combustion chamber and means for discharging products of combustion through the furnace body at the opposite sides of said combustion chamber, and upwardly through said first named chamber.

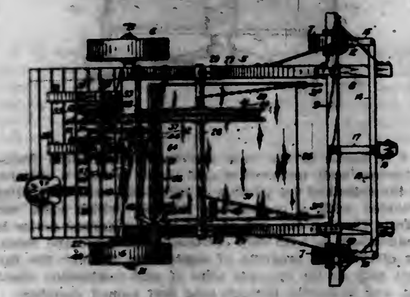
1,397,179. PUMP. Eustace Paolicelli, New York, N. Y. Filed Sept. 9, 1920. Serial No. 409,215. 18 Claims. (Cl. 230—27.)



1. As an attachment for a motor vehicle engine, an air pump comprising in combination a barrel provided with an internally threaded opening at its upper end adapted to receive a tube, an internally threaded opening at its lower end, and a series of orifices peripherally arranged at its lower portion, a hollow cylindrical extension of smaller diameter than said barrel provided with an externally threaded upper portion adapted to engage the threads at the lower end of said barrel, means

adapted to engage attaching means associated with the engine cylinder and a plurality of openings disposed peripherally above said attaching means, said openings being adapted to form outlets from within the engine cylinder to facilitate the escape of gases and oils from the latter, a piston provided with a long piston rod, said rod being adapted to pass through said cylindrical extension and said attaching means thereby entering said cylinder, a tension spring, the ends of which are secured to said cylindrical extension and said piston, and means for keeping said piston in inoperative position when desired.

1,397,180. GRADING-MACHINE. WILLIAM PILGRIM, Center, Colo. Filed May 28, 1920. Serial No. 384,903. 7 Claims. (Cl. 37—33.)



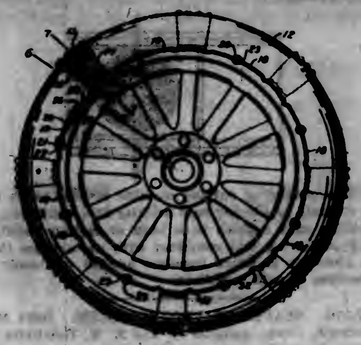
1. In a grading machine, the combination of a carrier frame, a traction wheel for its support, a scoop pivoted on the frame, a winding drum, a flexible connection between the drum and the scoop, a sheave on the drum, a driving sheave, a rope winding upon the sheaves and attached thereto at its ends, a movement transmitting mechanism between the driving sheave and the traction wheel, and a clutch controlling the operation of said mechanism.

1,397,181. DISTILLATION OF WOOD, WOODY FIBER, AND SIMILAR CARBONACEOUS SUBSTANCES. PHILIP POORE, London, England. Filed July 7, 1919. Serial No. 309,121. 5 Claims. (Cl. 203—6.)

1. A method of increasing the yield of acetic acid, wood naphtha, or other distillation products in the destructive distillation of wood, woody fiber and similar carbonaceous substances, consisting in subjecting the charge to distillation at a gradually increasing temperature by the uniform external application of heat to the retort within which the distillation is effected, and admitting steam into the retort at a substantially constant and relatively low temperature during the active period of distillation, substantially as described.

1,397,182. ANTISKID ATTACHMENT FOR ELASTIC TIRES. WILLIAM T. ROLLINS, Boston, Mass., assignor, by direct and mesne assignments, of one-fourth to William H. Davis and one-half to Eugene F. Lally, Boston, Mass. Filed Feb. 10, 1921. Serial No. 443,767. 3 Claims. (Cl. 152—14.)

2. An anti-skid attachment for elastic tires, comprising a plurality of flexible spaced apart wire mats, each formed to bear on the tread portion, and on opposite side portions, of the tire, and combining means engaged with opposite ends of the mats, and adapted to combine the same upon the tire, each mat being composed of a plurality of spaced apart sinuous wire units, extending substantially parallel with each other crosswise of the mat, and interengaged at their opposite ends to form flexible salvage edges, each unit having flatter bends bearing on the tire,

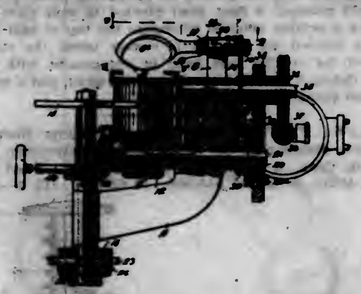


and outer bends standing out from the tire and arranged to resist side slipping or skidding of the tire.

1,397,183. DRY BATTERY AND PROCESS OF MANUFACTURE. OTTO M. REMOFF, Madison, Wis., assignor to French Battery & Carbon Co., Madison, Wis., a Corporation of Wisconsin. Filed Nov. 14, 1918. Serial No. 262,417. 7 Claims. (Cl. 204—38.)

1. A battery comprising a can, a core with depolarizing material thereon, and electrolyte containing initially gelatinous material preventing disintegration of the core.

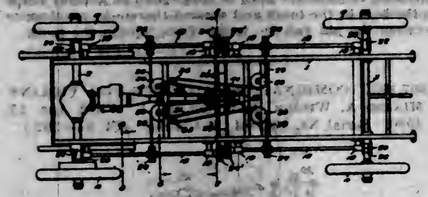
1,397,184. FILLING-MACHINE. JACOB SCHAUB, Newark, N. J., assignor to The Theros Company, New York, N. Y., a Corporation of Delaware. Filed July 5, 1918. Serial No. 243,267. 3 Claims. (Cl. 226—95.)



1. In a machine for filling receptacles, the combination consisting of a bisected ladle having two substantially similar members mounted on separate parallel shafts, said shafts being provided with gears meshing with each other, a segmental gear secured to one of said shafts, a reciprocating rack co-acting with said segmental gear, means for effecting the to and fro movement of said rack at predetermined intervals whereby the alternate opening and closing of said ladle is effected, a feed mechanism including a star wheel, the latter being adapted to partially embrace a receptacle between two adjacent arms thereof, means including a Geneva movement for periodically moving and stopping said wheel in synchronism with the closing and opening of said ladle, a conveyor for supplying receptacles into a position to be periodically embraced

by said star wheel during the movement of the latter and means, including a friction drive mechanism for effecting the synchronous movement of said ladle members and said feed mechanism.

1,397,185. COMBINED AUTO JACK AND SAFETY DEVICE. WILLIAM SCOTT, St. Louis, Mo. Filed Oct. 5, 1920. Serial No. 414,894. 7 Claims. (Cl. 254—86.)



1. In combination with a motor vehicle, a jack associated with each wheel thereof, means for normally holding said jacks in raised position, a drum for each jack, a cable connecting the drum with the jack, a shaft for each drum, a pair of pulleys on each shaft, ratchet mechanism connecting each pulley with its shaft, a hand lever, means for selectively connecting said hand lever with one of the pulleys on each shaft, such means including a cable, a drum, a cable connecting the same with the other pulley on each shaft, said cables normally holding the ratchet mechanism in inoperative position and manually operated means for connecting the drum with the power plant of the automobile.

1,397,186. EMERGENCY-SPUR FOR VEHICLE-WHEELS. HERMAN R. STINSON, Norman, Okla. Filed June 15, 1920. Serial No. 389,135. 1 Claim. (Cl. 152—14.)



A mud shoe for vehicle wheels comprising an arched traction member, parallel arms formed integral with and depending from the sides of said member, angularly disposed blades formed integral with said arms and extending laterally therefrom, and a fastening bar connecting the lower ends of the arms.

1,397,187. PROCESS OF SALTING NUTS IN THE SHELL. THADDEUS C. TUCKER, Oakland, Calif. Filed June 23, 1921. Serial No. 479,869. 4 Claims. (Cl. 99—8.)

1. The herein described process for salting unshelled almonds or other nuts having shells pervious to a saline solution comprising immersing said nuts in a saline solution held at normal boiling temperature and for a period sufficient to secure penetration of the shell and agitating same during the period of immersion.

1,397,188. CALCULATING-MACHINE. JOHN C. WAHL, Chicago, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y., a Corporation of New York. Filed June 6, 1912. Serial No. 702,653. 28 Claims. (Cl. 235—60.)

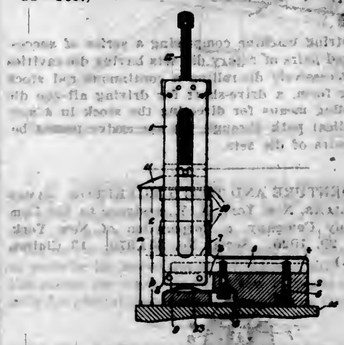
1. In a calculating typewriting machine, the combination of a paper holding carriage traveling to determine a printing point, a stationary totaliser, a reciprocatable master group adapted to coöperate with said stationary totaliser, a set of numeral keys, mechanism operated by said numeral keys to determine the member inserted in the stationary totaliser by said master group, a universal member in said master group, mechanism moving said universal member through a constant amount upon the operation of any of said numeral keys, mechanism to attach the reciprocatable master group to the paper holding carriage to thus cause the said group to travel in synchronism with said carriage, and means to detach the reciprocatable master group from the carriage at a predetermined position.



7. In a calculating machine, the combination of a carriage to determine the different columns and the various decimal places of each of said columns, a columnar total calculating mechanism, a reciprocating master group, an auxiliary total calculating mechanism adapted to be actuated by said reciprocating master group and means to determine whether said master group shall be active or non-active in respect to said auxiliary total calculating mechanism, said means including a cam mechanism, an element of which is mounted on said carriage whereby the action or non-action of said master group on said auxiliary total calculating mechanism may be predetermined for any of the columns in the travel of said carriage.

21. In a calculating machine, the combination of a master wheel, two intermeshing gears, one of which is connected to turn said master wheel, a sector for driving said intermeshing gears alternatively, and means for shifting said intermeshing gears axially in opposite directions so that one of them is advanced toward said sector as the other is withdrawn from it.

1,397,189. BASE FOR HOLDERS FOR MEASURING-BLOCKS. CARL AXEL WESTERGREN, Eskilstuna, Sweden, assignor to Aktiebolaget C. E. Johansson, Eskilstuna, Sweden, a Manufacturing Company of Sweden. Filed Mar. 10, 1920. Serial No. 364,709. 1 Claim. (Cl. 33—169.)



1. The combination with a base for holders for measuring blocks, said base having a recess at one end and a groove in its upper side, of an arm having two parallel plane surfaces and secured in said groove in the base in such manner that the parallel plane surfaces on said arm are parallel with the bottom surface of the base and overhang said recess.

1,397,190. FLUID-CONTROLLING APPARATUS. Edward J. Wessing, Chicago, Ill., assignor of one-half to George W. Pearson, Chicago, Ill. Filed Nov. 12, 1920. Serial No. 423,679. 22 Claims. (Cl. 158—36.)



1. In a liquid controlling device, the combination of a tank containing an inlet and an outlet and provided with a valve, a float in said tank controlled by the height of the liquid in said tank, a magnet, and a movable member movable by engagement therewith of said float and controlling said valve and releasably held by said magnet in the position to which it is moved in the movement of said float.

1,397,191. NAIL-STRING MACHINE. George C. F. Williams, Hartford, Conn. Filed Aug. 10, 1916, Serial No. 114,411. Renewed July 18, 1921. Serial No. 485,792. 6 Claims. (Cl. 87—37.)



1. A nail-string machine comprising a series of successively arranged pairs of rotary die sets having die-cavities suited for successively die-rolling a continuous rod stock to nail-string form, a drive-shaft for driving all the die sets and guiding means for directing the stock in a substantially helical path through the successive passes between said pairs of die sets.

1,397,192. DENTURE AND TOOTH THEREFOR. James Leon Williams, New York, N. Y., assignor to The Dentists' Supply Company, a Corporation of New York. Filed Jan. 29, 1920. Serial No. 354,979. 13 Claims. (Cl. 32—9.)



1. A denture comprising a vulcanite plate to fit the jaw, combined with a crown tooth having its neck end alone slotted to the plate, and a metal anchoring pin secured to the crown tooth and projecting above its surface thereof which is in contact with the vulcanite plate and said projecting anchoring pin provided with a transversely arranged head embedded in the vulcanite plate for securing the tooth thereto.

4. The denture according to claim 1, characterized by having the crown tooth formed with a deep hole which is elongated mesio-distally at its lower part and the pin flattened at its lower part to correspond in general shape to the hole in the tooth and secured therein by a vulcanite between the pin and the walls of the hole in the tooth.

1,397,193. COMBINATION-TAILPIECE FOR VIOLINS. Minard A. Wilson, Irvington, N. J. Filed Apr. 15, 1920. Serial No. 374,064. 5 Claims. (Cl. 84—302.)



3. A combination tail piece for violins comprising a main body and two arms projecting laterally at its rear end, one of said arms being short and at right angles to the body, and the other longer and curved forwardly and inwardly at its end, and said arms being provided at their rear under edges with downwardly projecting ribs forming the sole points of contact with the violin.

1,397,194. SPEED-CONTROL DEVICE. Pierre O. Wood, Memphis, Tenn., and Harry L. Workman, Springfield, Mo. Filed July 19, 1920. Serial No. 397,417. 8 Claims. (Cl. 303—21.)



1. A device of the character described, comprising in combination with the brake-operating air-line of a locomotive and a speed-recording device actuated by a truck-axle of the locomotive, a cylinder interposed in said air-line and provided with an inlet port and an exhaust port whereby communication between the air-line and the atmosphere may be established, a double piston slidable in said cylinder and normally disposed on opposite sides of the inlet port and adapted to normally confine the air therebetween, a valve carried by said double piston for normally closing the exhaust port, a passage having communication with said cylinder at a point intermediate of the double piston and at a point in the cylinder above said pistons, a normally seated valve whereby air is prevented from flowing through said passage, regulable means for determining the extent

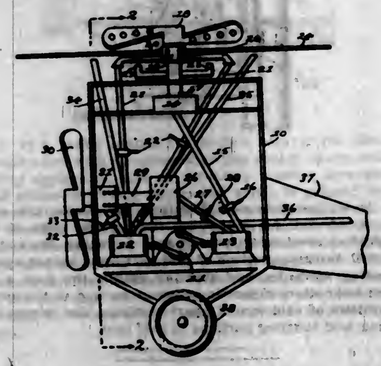
of movement of the double piston, and means, operable by a speed-recording device when the locomotive reaches a predetermined speed, adapted to actuate the valve for said passage, thereby permitting the air to flow from between the double piston to one end of the cylinder and causing the double piston to move the exhaust valve off its seat and permit air from the air-line to exhaust.

1,397,195. FIGURE TOY. Béla Zsarnay, Belleville, N. J., assignor of one-half to Abraham Lewis, Newark, N. J. Filed Feb. 26, 1921. Serial No. 447,967. 2 Claims. (Cl. 46—40.)



1. In a device of the character described, a combination of a pair of rocker bars grooved at the underside with flat springs within the grooves of said bars, means for securing said springs in approximately their center to said bars, pins at the ends of said springs, rectangularly disposed thereto, links provided with sockets at their lower ends for the reception of said pins, arms integrally made with said links, and wings to which the upper ends of said arms are secured for flopping said wings upon the operation of the rocker.

1,397,196. AEROPLANE. Béla Zsarnay, Belleville, N. J. Filed Mar. 5, 1921. Serial No. 449,983. 2 Claims. (Cl. 244—15.)



1. An aeroplane of the character described, comprising a chassis carrying a motor, compressors and pumps operated by said motor, lifting and driving propellers, turbines for operating said propellers, valve controlled pipe conduits connecting said compressors with said turbines, means for guiding the surplus of compressed air from said turbines to the pumps, lifting wings, and pipe conduits for guiding said surplus of compressed air underneath of said wings to increase the carrying power of the aeroplane.

1,397,197. IMPREGNATING COMPOSITION AND PROCESS FOR THE PRODUCTION THEREOF. Sigurd Arthur Aarnerud, Aalst, near Christiania, and Birger Fyhn Halvorsen, Christiania, Norway, assignors to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Filed Oct. 18, 1920. Serial No. 416,755. 8 Claims. (Cl. 134—13.)

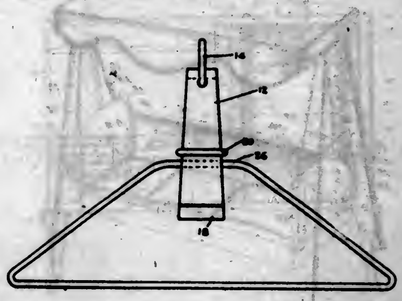
1. The process of producing an impregnating material which consists in sulfurizing heavy tar products, separately sulfurizing non-mineral oils, mixing the separately sulfurized resultant compounds, and heating the mixture until the reaction is completed and the desired consistency obtained.

1,397,198. MACHINE FOR CUTTING BLOCKS INTO SMALLER SIZES. Albert Ernest Alchin, Perth Amboy, N. J. Filed Dec. 30, 1919. Serial No. 348,402. 11 Claims. (Cl. 107—22.)



1. A machine for cutting ice cream blocks and other frozen products, including one or more flat freely rotatable disk knives or cutters, each cutter having a circumference equal to or greater than the length of the blocks to be cut, whereby each individual cutter revolves not more than once as it progresses through the block so that no part of a cutter is unduly chilled by coming in contact with the same block twice in making a single cut.

1,397,199. CLOTHESPIN. Russell E. Barneck, Minneapolis, Minn. Filed Apr. 1, 1921. Serial No. 457,769. 2 Claims. (Cl. 24—138.)

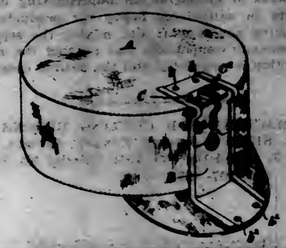


1. A clothespin comprising two jaw members which conjointly are of frusto-conical form, a ring slidably surrounding said members and of such size as to be capable of sliding only part way to the lower end of the conical surface, a lug on the lower end of one of said jaw members adapted to underlie the lower end of the other of said jaw members, and means for connecting said jaw members at their upper ends for pivotal movement when said ring is slid upwardly.

1,397,200. LAMP-HOLDER FOR MINERS' CAPS. Joseph Bareta, Martins Ferry, Ohio. Filed Jan. 18, 1921. Serial No. 438,216. 1 Claim. (Cl. 240—60.)

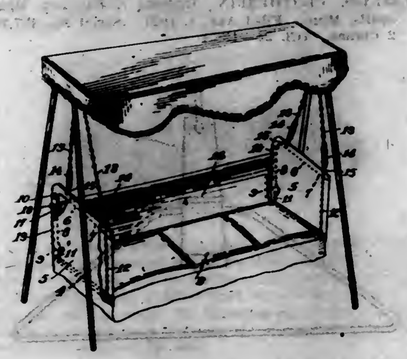
A device for supporting a miner's lamp upon a cap comprising the usual frame slotted at its upper end, and a plate rigidly attached thereto and formed with a tubular downwardly extending socket passing through one end of the slot in the frame and closely engaging the vertical

part of the hook of the lamp, said plate having on its upper face a groove extending downwardly from the upper part of the socket and raised flanges at the sides of said groove spaced to engage closely the side of the hook,



whereby lateral and swinging movement of the lamp is prevented, the upper face of said plate at the sides and rear of the groove being beveled to guide the lamp hook while being inserted.

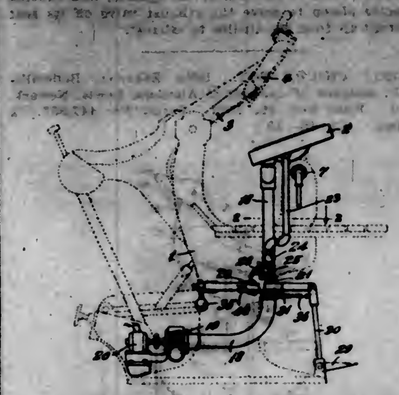
1,397,201. HAMMOCK. PERCIVAL B. BUNNY, Brooklyn, N. Y., assignor to The Englander Spring Bed Company, Brooklyn, N. Y., a Corporation of New York. Filed Dec. 4, 1920. Serial No. 428,190. 15 Claims. (Cl. 5—61.)



2. A hammock having a seat and fabric ends provided with spreader bars, each having a depending portion having an inwardly curved lower end terminating above the seat, means connecting the spreader bars with the seat, and means connected with the spreader bars for supporting the hammock.

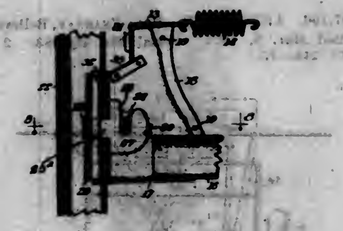
1,397,202. PRESSING-MACHINE. CHARLES L. BRALEY, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Dec. 18, 1916. Serial No. 137,609. 10 Claims. (Cl. 68—9.)

1. A pressing machine, comprising relatively operable pressing members, means for supplying steam to the space between said members, means for producing a flow of air to remove steam and moisture from said members, and the



space therebetween, and a single controlling device for both said means.

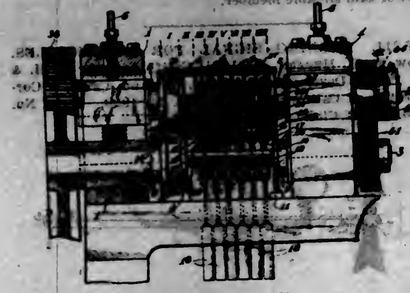
1,397,203. METAL BEDSTEAD. CHARLES H. BUNCE, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Feb. 8, 1918. Serial No. 216,967. 9 Claims. (Cl. 5—56.)



1. In a three-piece metal bedstead, the combination of a post, a side rail for connecting the opposite ends of the bedstead, a sheet metal part shaped to inclose the end of said rail, integral portions of said part being spaced apart, extending upwardly, and abutting against the post, a resilient bed bottom supporting element secured to the upper extremities of said spaced apart portions, and means for locking said abutting portions to said post.

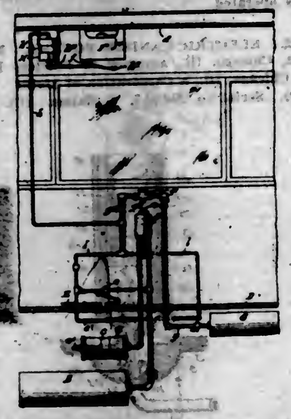
1,397,204. NAIL-STRING MACHINE. SOLOMON M. CUTTS, Hartford, Conn., assignor to Capewell Horse Nail Company, Hartford, Conn., a Corporation of Connecticut. Filed Aug. 10, 1916. Serial No. 114,110. 28 Claims. (Cl. 59—37.)

1. A machine for die-rolling nail strips comprising a pair of die-rolls having groups of cooperating dies circumferentially disposed in successive groups thereon and adapted to reduce a continuous rod stock to nail string form,



directing the said continuous stock successively through the series of passes formed by said groups of dies.

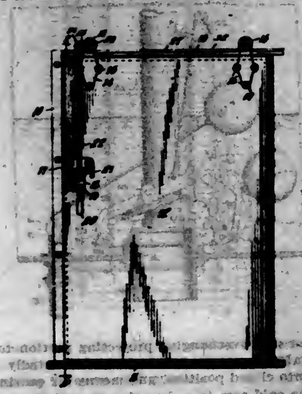
1,397,205. SYSTEM OF OPERATING SAFETY APPLIANCES ON ELECTRIC CARS AND OTHER VEHICLES. EDWARD J. FURNESS, Buffalo, N. Y. Filed Sept. 18, 1919. Serial No. 324,260. 5 Claims. (Cl. 303—6.)



1. In a safety system for electric cars or the like, the combination with a brake-controlling device, of one or more safety appliances, and an actuating member arranged on said brake-controlling device and which is gripped by the operator when holding said brake-controlling device and by means of which said safety appliances may be actuated independently of the position of said brake-controlling device, said actuating member being so associated with the brake-controlling device as to be influenced by the inertia of the operator when the speed of the car is suddenly checked to automatically tend to actuate said safety devices.

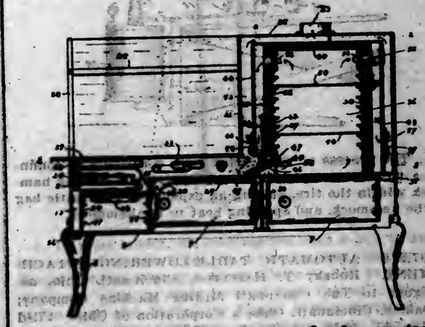
1,397,206. DOOR-CHECK. WILLIAM A. GEIGER, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed June 12, 1919. Serial No. 303,636. 2 Claims. (Cl. 16—158.)

1. In a door checking device, the combination with a track secured to the member having the door opening in a position above the top of the door opening, a door, a bracket secured to the upper part of the door, and a roller carried by said bracket and adapted to roll along said track; of a bracing lever for said roller, said lever being pivoted to the bracket and extending to that side nearest the front edge of the door, said lever having a portion adapted to engage the roller between the latter and the track, said lever being freely movable a limited amount relatively toward and from the roller; means extending lengthwise of



and adjacent to said track arranged to cooperate with said lever to automatically prevent movement of the latter in a direction corresponding to a closing movement of the door; and manually operable means for rendering said lever inoperative with respect to said first named means, said door being always freely movable in an opening direction.

1,397,207. GAS-STOVE AND FIRELESS COOKER. ARNOLD F. GLASS, Birmingham, Ala. Filed June 17, 1919. Serial No. 304,934. 8 Claims. (Cl. 126—39.)

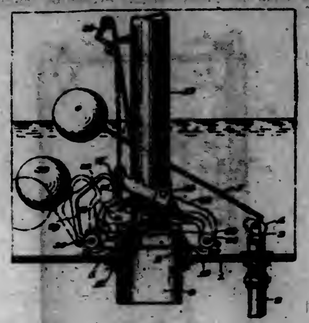


1. In a gas burning cooking stove, a flue for carrying off the products of combustion, an oven, damper controlled means to divert the products of combustion into the lower part of the oven, and means to draw off the products of combustion from the top of the oven at each side, said means comprising vertical return flues leading downwardly along each side of the oven and returning back upwardly above the oven, and said damper controlled means comprising a damper adapted in one position to short circuit the products of combustion through the outer return flue and in another position to direct the products through the oven.

1,397,208. VALVE-CONTROLLING MEANS FOR WATER-CLOSET APPARATUS. WILLIAM U. GRIFFITHS, Philadelphia, Pa. Filed Feb. 14, 1918. Serial No. 217,078. 8 Claims. (Cl. 4—5.)

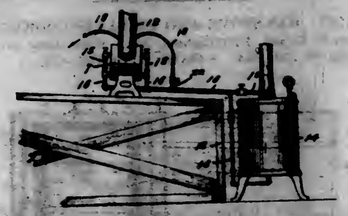
1. The combination of a valve structure having a portion provided with a curved cam like surface, an arm pro-

vided with an overhanging projecting portion to fit over and having a curved surface adapted to contact with the curved cam like surface upon the said valve structure, the said arm being bent or extended inwardly to form a spade



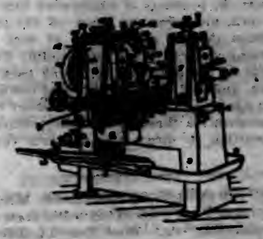
beneath the said overhanging projecting portion to permit the said valve structure to move uninterruptedly and unretarded into closed position, and means for causing movement of the said arm in a direction toward the said valve structure, substantially as described.

1,397,209. PROCESS AND APPARATUS FOR VULCANIZING TIRES. PAUL E. HAWKINSON, Minneapolis, Minn. Filed Jan. 27, 1921. Serial No. 440,427. 16 Claims. (Cl. 18—38.)



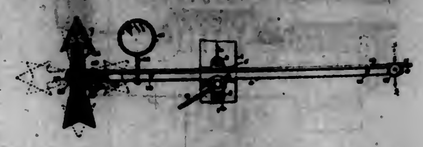
1. The process of vulcanizing tires consisting in confining a tire in an enveloping mold, applying a heating hammock within the tire, placing an expansible pneumatic bag in the hammock, and applying heat to the hammock.

1,397,210. AUTOMATIC TABLE-LOWERING ATTACHMENT. ROBERT T. HAMILTON, Cincinnati, Ohio, assignor to The Cincinnati Milling Machine Company, Oakley, Cincinnati, Ohio, a Corporation of Ohio. Filed May 11, 1915. Serial No. 27,223. 8 Claims. (Cl. 90—21.)



1. The combination of a reciprocatory slidable member, work carrying means on said slidable member, and means governing the movement of the slidable member, for effecting the movement of the work relatively to the slidable member at any one of a selection of different points in the travel of said slidable member.

1,397,211. TURNING-SIGNAL FOR AUTOMOBILES. EDWARD H. HINMAN, Oakland, Calif., assignor to H. & H. Patent Developing Company, Oakland, Calif., a Corporation of California. Filed Feb. 21, 1920. Serial No. 360,693. 1 Claim. (Cl. 116—67.)



In an indicating signal for vehicles, the combination of a bearing in a vehicle, a bar longitudinally held adjustably in the bearing, one end of the bar being within the vehicle and the other end being outside the vehicle, a signal carried on the outer end of the bar, means at the inner end of the bar for turning the signal, and an operative connection between said turning means and signal whereby the signal is turned about a horizontal axis when said turning means is operated.

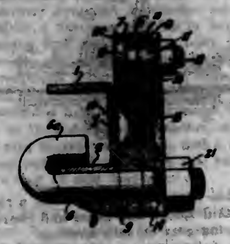
1,397,212. ELECTRIC-CANDLE SOCKET. MAX HERSKOVITZ, Chicago, Ill., assignor to Peerless Light Company, Chicago, Ill., a Corporation of Maine. Filed May 1, 1919. Serial No. 293,957. 9 Claims. (Cl. 173—358.)

1. In an electric socket structure, the combination of a screw shell and a center contact, a casing of fibrous pierceable insulating material in which said shell is located, a supporting member having one of its ends equipped with means for piercing said shell and provided at its opposite end with an apertured portion for attachment to a support, and electric-current conducting wires extending therethrough, whereby said shell may be supported at a predetermined height.

1,397,213. CLAMP FOR ATTACHING BUFFERS TO VEHICLES. THOMAS A. HOOVER, Fresno, Calif., assignor to American Chain Company, Inc., a Corporation of New York. Filed Sept. 22, 1921. Serial No. 502,469. 12 Claims. (Cl. 266—55.)

2. In a clamp for attaching a buffer to the channel bars of an automobile, a pair of contacting plates of substantial length pivotally connected to each other to adapt them for relative oscillation in adjacent planes the contacting surface of one of said plates being provided with a groove

displaced from the point of pivotal connection said groove serving to receive a supporting arm of the buffer, means



for clamping said plates together in a plurality of angular positions with respect to one another and means for attaching one of said plates to a channel bar.

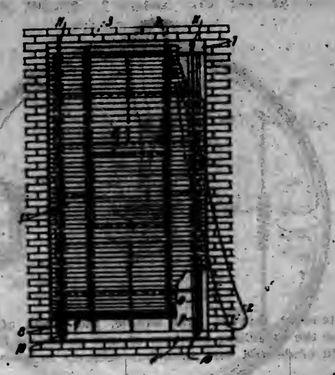
1,397,214. WRENCH. TITUS S. HOSS, Little Falls, N. Y. Filed Apr. 18, 1921. Serial No. 461,749. 6 Claims. (Cl. 81—151.)



1. The combination in a wrench having a head provided with a fixed jaw, said head having a slot therein, of a movable jaw, a shank on said movable jaw and engaging said slot to guide said movable jaw toward and from said fixed jaw, ratchet teeth on said movable jaw and disposed in a plane oblique to the direction of movement of said shank in said slot, and means in said head for releasably engaging said ratchet teeth to hold said movable jaw in one or more positions relatively to said fixed jaw.

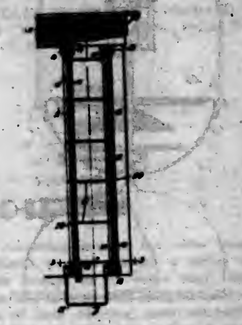
1,397,215. SHADE APPLIANCE. ABEL C. HOUGH, Janesville, Wis. Filed Jan. 20, 1921. Serial No. 440,830. 7 Claims. (Cl. 156—10.)

7. In an appliance, of the class described, a sash provided with a movable ventilator, a shade supported in proximity to the top of such sash, a guide having a permanent arcuate shape, arranged with its terminals in proximity to the top and bottom of said sash, and provided with an upwardly- and forwardly-extending arm, a supporting member above said shade, and a guide extending



between said arm and said supporting member, in front of said first-named guide, said shade being receivable and operating between said guides.

1,397,216. LADDER. GEORGE A. JOHNSON, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Jan. 20, 1919. Serial No. 271,959. 2 Claims. (Cl. 228—49.)



1. In a car ladder, the combination with a pair of angle irons constituting stiles, each angle iron having the flanges thereof arranged substantially at 45° to the wall of the car with the angle farthest from the wall, the ends of the angle iron having the flanges thereof flattened into a common plane to thereby adapt the angle iron to be secured to the car, each of said angle irons being provided with a plurality of sets of perforations, each set comprising two perforations, one in each flange, the perforations of each set being in horizontal alinement and the corresponding sets on the two angle irons being also in horizontal alinement, of a series of rod-like rungs extending straight through the corresponding sets of perforations, the ends of said rungs outside of the stiles being curved around adjacent portions of the angle irons to thereby secure the rungs in place.

1,397,217. CAN-OPENER. ELMER H. KEPNER, Springfield, Oreg. Filed Dec. 27, 1919. Serial No. 347,690. 2 Claims. (Cl. 30—3.)

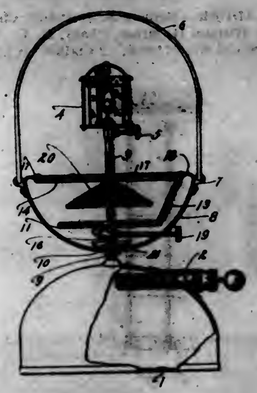
1. A device of the class described including a handle, a pair of laterally projecting shoulders having attaching portions arranged in spaced relation at the forward por-

tion of the handle, a blade having a shank fitly engaged by the attaching portions of said shoulders, and means



extending through said handle, the shank of the blade and the attaching portions of said shoulders for securing said blade and said shoulders securely in position.

1,397,218. INSECT-EXTERMINATOR. WILLIAM F. LACKIE, Opportunity, Wash. Filed Feb. 28, 1921. Serial No. 447,955. 4 Claims. (Cl. 43—113.)



4. The combination with a gasolene supply tank and means for supplying air under pressure thereto, of an upright, central fuel pipe and a lamp thereon, a bowl beneath said lamp having bottom openings and an upper, inturned, annular flange, a perforated coil attached to said pipe and located near the bottom of the bowl, a foraminous shield supported on said pipe above the coil, a radial extension from said coil, and an annular perforated pipe connected with said extension and attached to said flange, for the purpose described.

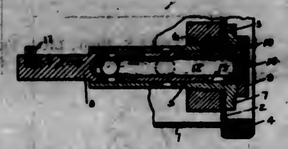
1,397,219. DRIVE MECHANISM. THOMAS F. LEDBETTER, Columbus, Ga. Filed Feb. 16, 1920. Serial No. 359,098. 2 Claims. (Cl. 74—89.)

2. In a four wheel drive, a double differential mechanism for both front and rear wheels comprising a spider, two sets of bevel pinions arranged on the arms of the spider and at radially different distances from its center, a pair of gears, one on each side of said spider, meshing with one of said sets of pinions, said pair of gears having hollow hubs, a rear axle section fitting into driving relation with each of said hubs, a second pair of gears concentric with said first mentioned gears arranged on each side of the spider and meshing with the other set of pinions, hubs of said last mentioned gears having an elongated hollow hub, a gear on each hub, driving connections



between each hub gear and a driven wheel, a rotatable housing including said spider and gears and connected to said spider, and a ring gear on said housing.

1,397,220. FAUCET. LAWRENCE S. LOSH, Cleveland, Ohio. Filed Dec. 16, 1918. Serial No. 266,802. 3 Claims. (Cl. 251—8.)



2. A faucet for liquid containers, comprising closely fitting telescoping shell and plug members, the shell member being open at its inner end and adapted at its outer end for securement to the wall of a container and having a plurality of circumferentially spaced openings in its side wall, and the plug member having a longitudinal cavity closed at both ends and provided in its side wall near its outer end with a discharge opening and inwardly therefrom with a series of circumferentially spaced openings adapted when said discharge opening is exposed beyond the end of the shell member to register with the side openings in the shell member and permit the discharge of liquid, and a threaded connection between the outer end portions of said members.

1,397,221. WINDOW FRAME AND SASH STRUCTURE. GEORGE A. MARTIN, Chicago, Ill. Filed Oct. 25, 1920. Serial No. 419,250. 2 Claims. (Cl. 20—12.)



1. The combination with an upright rectangular frame having a vertically disposed passageway or pocket, the outer portion of the inner wall of said pocket having a vertical guideway and being provided in its upper portion

with a removable door and shoe closing said door with an opening, of a sash bracket to guide and sustain said sash having in the upper portion of one of its side rails a downwardly extended opening and in the top of its said rail a transversely extended depression terminating in a vertical opening, a fastener adapted in said downwardly extended opening and [illegible] body portion having a coil and a loop and [illegible] disposed arm terminating in a vertically [illegible] to engage said depression and vertically [illegible] opening respectively, a flexible connection extended [illegible] said fastener body fastened at one of its [illegible], a weight on the other end of said flexible [illegible] and a spring extended in to the upper portion of the side rails of said sash to engage the loop of said fastener.

1,397,222. ELECTROLYTIC REFINING OF TIN. FRANK C. MATHERS, Bloomington, Ind., assignor to American Smelting & Refining Co., a Corporation of New Jersey. Filed Oct. 11, 1918. Serial No. 257,700. Renewed Dec. 9, 1920. Serial No. 429,561. 22 Claims. (Cl. 204—17.)

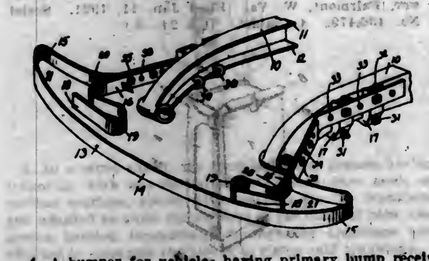
4. In the electrolytic refining of impure tin, the process which consists in passing an electric current of suitable voltage and amperage from the tin anode to a cathode through an electrolytic solution containing a solution of hydrofluosilicic acid, cresylic acid and less than six per cent. by weight of tin.

1,397,223. BUMPER. ERNEST T. MATHEWSON, Buffalo, N. Y. Filed Oct. 29, 1920. Serial No. 418,160. 4 Claims. (Cl. 293—55.)



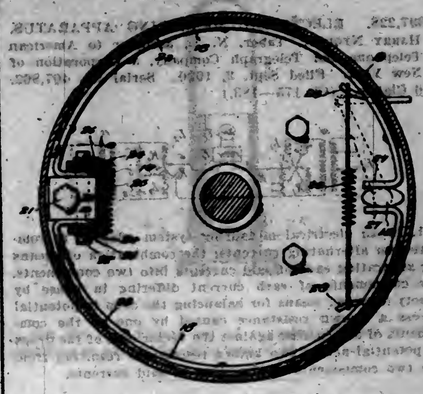
2. Means for attaching a spring plate bumper to a vehicle having longitudinally extending channel members, consisting of a bracket cut away on both sides to form vertical shoulders, the spring plate of the bumper being fastened to the bracket with its end against one shoulder, and the bracket being secured to one of the said channel members with the front end of the member engaging the other shoulder.

1,397,224. BUMPER. ERNEST T. MATHEWSON, Buffalo, N. Y. Filed Jan. 11, 1921. Serial No. 436,539. 13 Claims. (Cl. 293—55.)



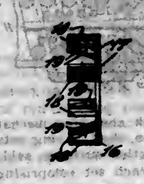
4. A bumper for vehicles having primary bump receiving means and secondary bump receiving means, said first named means comprising a spring bar extending transversely of the vehicle and having its ends bent rearwardly and inwardly, and said secondary means comprising two plates mounted on said vehicle and curved at the outer ends to form bump receiving portions substantially parallel to and in the rear of said spring bar, and means joining said first means to said plates at points behind said curved portions.

1,397,225. INTERNAL EXPANDING BRAKE. Jessica [illegible], Mermaid, Fort Kent, Man. Filed May 10, 1920. Serial No. 296,279. 7 Claims. (Cl. 188—78.)



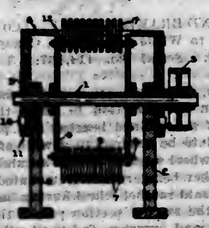
1. An internal expanding brake including companion brake shoes, means supporting the shoes at their inner ends, and a clip engaging opposite end portions of said supporting means and holding the inner ends of the shoes against displacement therefrom.

1,397,226. ROLLER-BEARING. ONESIME E. MICHAUD, St. Louis, Mo. Filed Sept. 22, 1919. Serial No. 325,357. 9 Claims. (Cl. 64—32.)



9. A forged retaining member for roller bearings comprising an annular portion having a series of integral spacing tongues located at its outer edge, said tongues projecting from one face of said annular portion parallel with the axis of said bearing, said retaining member being provided with strengthening ribs at the angle between the tongues and the annular portion of said retaining member, said strengthening rib being integral with said annular portion and said spacing tongues.

1,397,227. BRICK-CLEANING MACHINE. EDWARD L. MINOR, Birmingham, Ala. Filed Dec. 18, 1920. Serial No. 431,742. 7 Claims. (Cl. 125—26.)



1. A rotatable rack having a concentric series of axial supports with floating metallic disks mounted thereon,

and a bed above which the peripheries of the rotating disks will project to engage an article thereon to be cleaned.

1,397,228. ELECTRICAL MEASURING APPARATUS. HARRY NYQUIST, Tabor, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 2, 1920. Serial No. 407,962. 6 Claims. (Cl. 175—183.)



1. In an electrical measuring system adapted to compare two alternating currents, the combination of means for separating each of said currents into two components, the components of each current differing in phase by ninety degrees; means for balancing the drop in potential across a known resistance caused by one of the components of one current against the vector sum of the drops in potential across two known resistances resulting from the two components of the other of said currents.

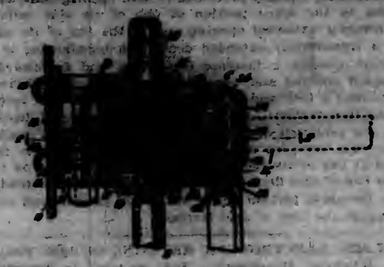
1,397,229. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Mar. 25, 1920. Serial No. 368,668. 4 Claims. (Cl. 213—64.)



1. In a friction shock absorbing mechanism, the combination with a friction shell having interior longitudinally extending flat friction surfaces, said surfaces being arranged in sets and each set comprising two surfaces disposed at an angle to each other; of friction shoes cooperable with the shell, each shoe having two outer flat friction surfaces coöperable with the friction surfaces of one of said sets; spring means to yieldingly resist relative movement between the shell and shoes; a pressure-transmitting spreader; auxiliary shoe blocks detachably associated with each of said shoes on the inner sides of the latter and having shouldered engagement therewith, said shouldered engagement being so arranged as to permit relative movement between the blocks and said shoes, said blocks and spreader having opposed sets of wedging faces; and an antifriction roller interposed between each of said sets of wedging faces.

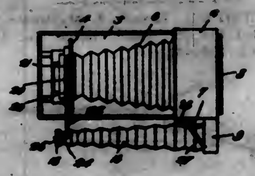
1,397,230. HAND-BRAKE. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Oct. 4, 1920. Serial No. 414,667. 3 Claims. (Cl. 74—115.)

1. In a brake, the combination with a member adapted to be rotated in one direction to effect tightening of a brake chain; of a combined bearing and partial housing bracket adapted to be secured to a wall of a car or the like; a ratchet wheel connected to said member, said ratchet wheel and member being rotatably mounted with respect to said bracket, said ratchet wheel having bearing surfaces at each end of the ratchet section proper thereof; a combined housing and carrier independently oscillatably mounted on said ratchet wheel and having correspondingly spaced bearing surfaces engageable with said bearing surfaces of the ratchet wheel; an operating handle carried by said shaft; a pawl associated with said handle and



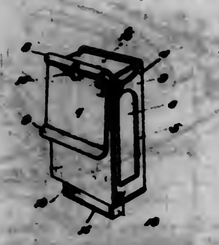
adapted to coöperate with the ratchet wheel; and means for locking said ratchet wheel and member against accidental reverse rotation.

1,397,231. FOCUSING ATTACHMENT. ARTHUR L. PATTERSON, Washington, D. C. Filed Oct. 19, 1920. Serial No. 418,072. 2 Claims. (Cl. 95—44.)



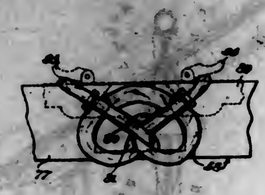
2. In a device of the class described, a camera comprising a body; a lens carrier movable toward and away from the body; a box-like casing open at one side; a focusing screen in the casing; a bellows mounted on the casing and coöperating with the screen; a lens carried by the bellows; means for connecting the forward portion of the bellows detachably to the lens carrier; and means for hinging the casing to the body for folding movement independently of the optical axis of the camera, whereby the open side of the casing may be swung against the body without encumbering the back of the camera.

1,397,232. MATCH-BOX HOLDER. CLINTON E. PRICKETT, Fairmont, W. Va. Filed Jan. 11, 1921. Serial No. 436,479. 4 Claims. (Cl. 24—3.)



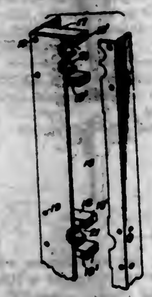
4. A device for the purpose set forth comprising a holder adapted to receive a match box and provided in its bottom with spaced openings, and a lifter comprising a box-engaging member arranged within the holder, end members extending from said box-engaging member through the openings in the bottom of the holder, and a handle member connecting said end members.

1,397,233. PRETZEL-MAKING MACHINE. JAMES G. ROSSMAN, Lancaster, Pa., assignor to American Pretzel Company, Philadelphia, Pa., a Corporation of West Virginia. Filed July 30, 1919. Serial No. 314,217. 14 Claims. (Cl. 107—8.)



12. In a pretzel making machine, the combination with a stationary frame provided with cam mechanism, of a rotary frame carried by said stationary frame, an oscillatory plate carried by said rotary frame, means on said plate for engaging said cam mechanism whereby said plate is oscillated, a bar journaled on said rotary frame to the rear of said plate on an axis transverse to the axis of rotation of said rotary frame, spring pressed gripping devices fulcrumed on opposite ends of said bar, and cam mechanism for retracting said gripping devices in the rising movement of said bar when approximately parallel to the axis of said rotary frame.

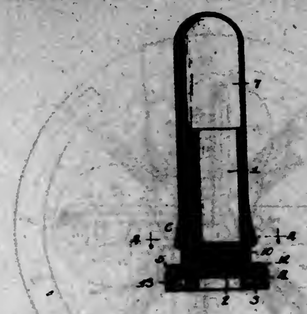
1,397,234. WINDSHIELD FOR VEHICLES. WILLIAM ROSENBLATT and JACOB J. SIMON, Brooklyn, N. Y. Filed Apr. 3, 1920. Serial No. 371,117. 3 Claims. (Cl. 296—96.)



3. In a wind shield, the combination of frames having trunnions with annular grooves, channel bars made of vertical sections, blocks with bearings for the trunnions and adapted to unite the sections of the channel bars, and screws passing tangentially through the trunnions and adapted to compress the blocks to clamp said trunnions.

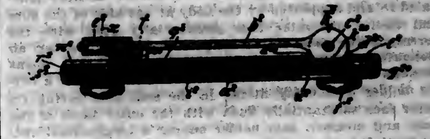
1,397,235. DUST-CAP FOR AUTOMOBILES. SIDNEY RALPH SAMS, Chicago, Ill. Filed July 5, 1921. Serial No. 482,310. 5 Claims. (Cl. 152—12.)

1. A dust cap for tire valves or the like, comprising a stationary tubular member and a detachable cap member sleeved upon the same, one of the said members having spring fingers directed toward the other member and engaging shoulders on the latter, the latter member having cam surfaces adapted upon a partial rotation of the cap



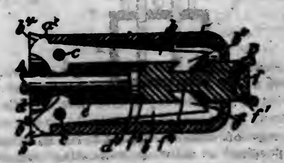
to flex the said fingers out of engaging relation to the shoulders to permit the detaching of the cap.

1,397,236. SAFETY-PIN. EDOUARD SCHENK, Geneva, Switzerland. Filed Sept. 20, 1920. Serial No. 411,423. 5 Claims. (Cl. 24—158.)



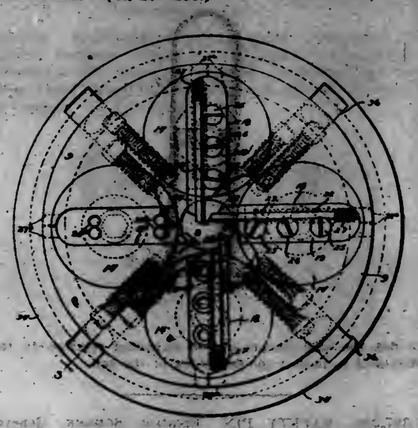
2. The combination with a pin and a body to which it is hingedly connected, of a spring actuated socket mounted for sliding movement on said body, and means for holding the socket out of pin-engaging position when the pin is open, said socket being released from said means and automatically moved by its spring into engagement with the point of the pin upon movement of said pin to closed position.

1,397,237. MANUALLY-OPERATED SAFETY COUPLING DEVICE. EDOUARD SCHENK, Geneva, Switzerland. Filed May 28, 1921. Serial No. 471,766. 5 Claims. (Cl. 24—230.)



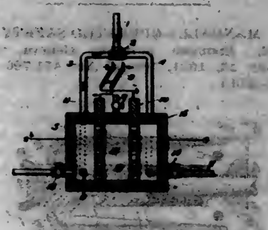
5. A manually operated extensible safety coupling device for articles of jewelry such as a necklace, comprising a sheath, a member on one end of the article and mounted slidably in the sheath, a plurality of two-armed levers pivoting radially with respect to this sliding part, a coil spring or springs surrounding said slidable member and thrusting its free end toward hook-shaped ends on the longer arms of the levers, whose short arms serve as abutment to the spring, an insertible member on the other end of the article having a reduced portion to receive the hook-shaped ends of the levers, and projections on said levers accessible from outside the sheath to rock said levers.

1,397,239. [illegible]. Clarence F. Spaulding, Waynesboro, Pa. Filed May 20, 1920. Serial No. 382,503. 21 Claims. (Cl. 10—100.)



2. In a cutter head, the combination with a body having a central work-receiving bore, of a carrier member journaled in and supported by the body at one side of the bore and having its outer face substantially flush with the corresponding face of the body, said member having an elongated recessed seat in its outer side that opens through the side thereof adjacent to the bore, and a cutter holder detachably fitting in the seat and having its outer face substantially flush with the outer faces of the body and member, said holder having a longitudinal cutter-receiving slot opening through its outer side and through the end adjacent to the work-receiving bore.

1,397,239. ELECTROLYTIC PRODUCTION OF HYPOCHLORITE SOLUTIONS. Henry B. Slater, Riverside, Calif. Filed Nov. 9, 1920. Serial No. 422,826. 6 Claims. (Cl. 204—59.)



1. A process of making hypochlorite solution, which comprises passing a solution consisting essentially of an alkali metal chloride through an electrolytic cell, and causing the liquor to flow from the cathode toward and into contact with the anode.

1,397,240. VEHICLE-WHEEL. Charles A. Simon, Atlanta, Ga. Filed July 14, 1919. Serial No. 310,894. 1 Claim. (Cl. 152—21.)

In a device of the class described, fixed and removable rim sections, webs carried by each of said sections and lying face to face when the sections are assembled, the web of said fixed section having spaced elongated slots therein and also having bolt openings arranged in spaced relation, hooks spaced upon said removable section and adapted to the channels between said slots, the said hooks adapted to enter said slots and be engaged with the edges thereof when the removable section is turned in one direction, the said removable section having its web provided with bolt openings adapted to register with the bolt openings in said fixed section web when the said hooks are engaged with the edges of said slots, and bolts for insertion in the said registered bolt openings.

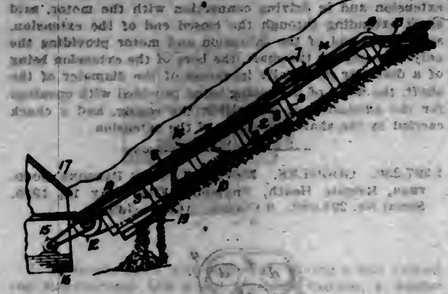
1,397,241. FORM-LIFTER. Lewis M. Cushman, Peoria, Ill. Filed Sept. 11, 1920. Serial No. 409,120. 6 Claims. (Cl. 25—121.)



1. In a form lifter, the combination with the form and a supporting pipe for the form, of a lifter comprising a section adapted to be rigidly connected with the form above and below the same and having means above the form for engaging the pipe and controlled to release position by the lifting of the form with respect to the supporting pipe, and a section supported below the form by the first named section and having means for engaging the pipe controlled to release position by the lifting of the said section with respect to the supporting pipe, and means in connection with the last named section and with the supporting means for lengthening and shortening the connection between the sections for the purpose specified, said means comprising a lever pivoted to the last named section intermediate its ends, and links connecting the lever at one end with the first named section.

1,397,242. TRANSPORTATION SYSTEM. Chas. C. Cox, Denver, Colo. Filed Dec. 6, 1920. Serial No. 428,709. 5 Claims. (Cl. 104—178.)

1. In a transportation system, the combination of a conveying trough, a railway supported thereon, and an endless cable adapted for the connection of cars moving on the railway, and passing through the trough for engagement with material therein.

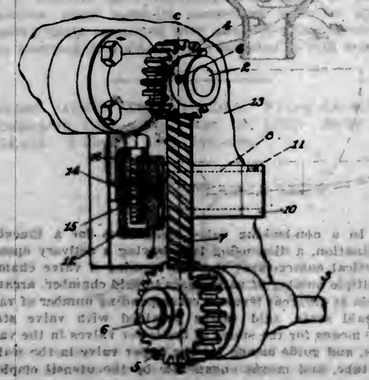


1,397,243. DIESTOCK. Morris Cramer, Cleveland, Ohio. Filed Mar. 18, 1920. Serial No. 365,461. 8 Claims. (Cl. 10—114.)



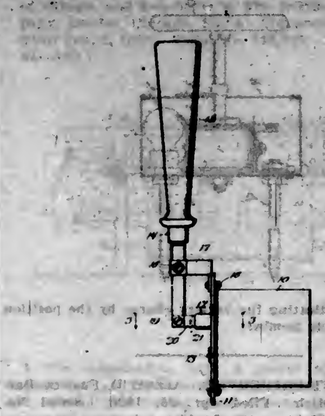
8. In a die stock, the combination of a frame, comprising end blocks, a plurality of guideways formed on the sides of said bosses, walls connecting said bosses and arching said guideways to form work holding recesses and openings adjacent said guideways.

1,397,244. ANGULAR DRIVING MECHANISM. Robert S. Curley, Lowell, Mass., assignor to Saco-Lowell Shops, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 7, 1920. Serial No. 401,993. 7 Claims. (Cl. 74—7.)



1. A driving mechanism of the character described, comprising, in combination, a pair of spur gears, a spiral gear connecting said spur gears, and supporting means for all of said gears.

1,397,245. SWITCH-OPERATING DEVICE. Wallace J. Stevens, Chicago, Ill. Filed Dec. 29, 1917. Serial No. 208,006. 2 Claims. (Cl. 200—69.)



1. In an electric switch, the combination of a push button switch adapted when operated to remain in either open or closed position, said switch having a plurality of switch buttons, and a hand operated lever pivotally secured to the switch frame and to the outer extremity of one of the switch buttons, the handle portion extending sufficiently beyond the switch frame to be readily grasped to move the switch on or off, and adapted to remain in its operative position, said handle extending vertically when the switch is in closed position.

1,397,246. HAT-PROTECTOR. Justine A. Fisher, New York, N. Y. Filed Oct. 22, 1920. Serial No. 418,858. 1 Claim. (Cl. 2—108.)

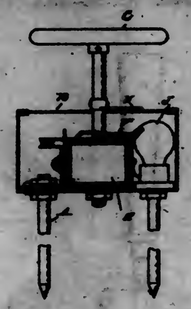


As an article of manufacture, a hat protector of the character designated, comprising a top crown piece of flexible oiled silk formed with a peripherally inturned flange, a side crown band of oiled silk hermetically cemented at its upper edge to the said peripheral crown flange, and a rim section of oiled silk formed with a flange hermetically cemented to the lower edge of said side crown band, the peripheral edge of said rim section being inturned to embrace the rim of a hat, and being formed with an edge piping containing an elastic resilient contractive cord, and the whole protector being collapsible and foldable upon itself, substantially in the manner and for the purpose described.

1,397,247. STORAGE-BATTERY-TESTING INSTRUMENT. John W. Fitzgerald, Detroit, Mich. Filed Mar. 26, 1920. Serial No. 368,998. 5 Claims. (Cl. 175—183.)

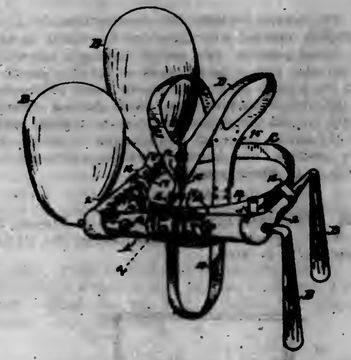
1. A storage battery tester, comprising means for closing an electrical circuit between the terminals of the bat-

tery, an adjustable member for varying the resistance of said circuit, and means cooperating with said adjustable



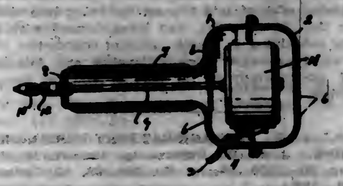
member for indicating the battery charge by the position of the adjustable member.

1,397,248. LIFE-PRESERVER. ALBERT D. FRANTS, Battle Creek, Mich. Filed Apr. 26, 1920. Serial No. 376,684. 4 Claims. (Cl. 9—19.)



1. In a life preserver, the combination of a gas-charging receptacle, gas-forming ingredients both a dry and liquid substance, said liquid substance being hermetically sealed in a glass vial, said vial being detachably fitted in said gas-forming receptacle, a thumb-screw extending from the exterior of said receptacle through the walls thereof and bearing against said vial, whereby said vial may be shattered and liberate said fluid to commingle with said dry substance and generate gas, substantially as and for the purpose set forth.

1,397,249. HOUSEHOLD ARTICLE. PETER F. GLENN, Philadelphia, Pa. Filed Mar. 3, 1920. Serial No. 363,967. 1 Claim. (Cl. 172—36.)



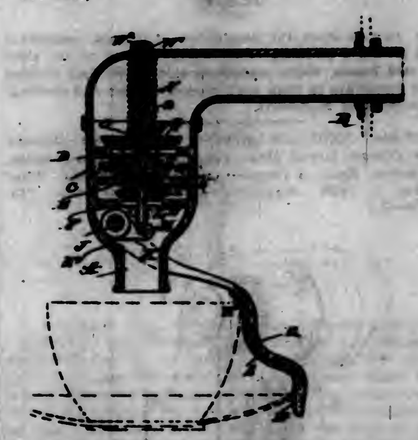
A device of the character described comprising a casing provided with a tubular extension, said extension serving as a hand grasp, the outer end of the extension being closed and the inner end opening into the casing, a motor contained within the casing, a shaft disposed through the extension and in driving connection with the motor, said shaft extending through the closed end of the extension, said closed end of the extension and motor providing the only supports for the shaft, the bore of the extension being of a diameter materially in excess of the diameter of the shaft, the walls of the casing being provided with openings for the admission of air within the casing, and a chuck carried by the shaft exteriorly of the extension.

1,397,250. GOGGLES. EDWARD THOMAS PARSONS GOODYEAR, Reigate Heath, England. Filed May 19, 1919. Serial No. 298,060. 6 Claims. (Cl. 2—140.)



1. Goggles comprising a solid resilient facial pad molded with eye apertures and so formed that its inner surface closely fits the features of the upper portion of the face and nose and its outer surface presents faces which are substantially right-angularly disposed to each other, and flat goggle glasses mounted in said eye apertures parallel to the said right-angularly disposed faces of the pad, substantially as set forth.

1,397,251. DRIPLESS FAUCET. STACEY A. HAINES, Cleveland, Ohio, assignor to The Haines Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 27, 1920. Serial No. 433,167. 8 Claims. (Cl. 277—29.)



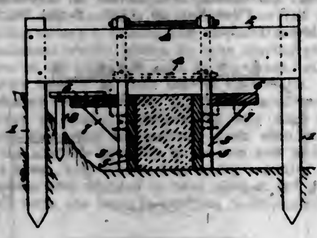
1. In a non-leaking valve mechanism for a faucet, in combination, a dispensing tube having a delivery opening, a vertical enlargement thereon forming a valve chamber, a multiple number of valve seats in said chamber, arranged therein at different levels, a corresponding number of valves for said seats, said valves provided with valve stems, guide means for the stems of the lower valves in the valves above, and guide means for the upper valve in the wall of said tube, and means engageable by the utensil employed in drawing the fluid from said valve, for raising the lower valve, and thereby, in succession the valves above, one after the other, when all of said valves are raised together above their seats, and automatically acting means for returning said valves to their seats.

1,397,252. NUT-LOCK. GUILELYN R. HOLMES and WALTER J. WIECK, Baltimore, Md. Filed Jan. 20, 1921. Serial No. 439,989. 4 Claims. (Cl. 151—25.)



1. In combination with a member having a bolt extending therethrough and a nut threaded thereon, a washer loosely arranged upon the bolt between the member and the nut and having a rigid tongue engageable by the nut to prevent turning of the latter and to cause movement of the washer when the nut is threaded into the bolt, said washer being laterally resilient and flexible and being provided with an inwardly projecting rib arranged to dig into the threads of the bolt when the washer is moved.

1,397,253. CONCRETE-MOLD. JAMES I. JONES, Washington, D. C., assignor of one-half to Rachel R. Browne, Washington, D. C. Filed Aug. 16, 1921. Serial No. 492,683. 3 Claims. (Cl. 25—118.)



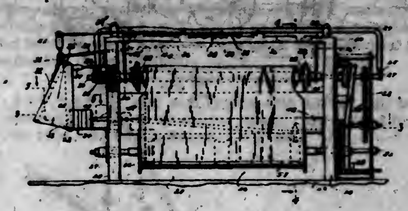
1. A concrete mold including a plurality of stakes, transverse brace members connecting pairs of stakes, hangers rigidly connected with and depending from said brace members, and side plates connected to said hangers.

1,397,254. ADJUSTABLE HOLDER. FRANK KARSCHITZ, Bridgeport, Conn. Filed Apr. 25, 1921. Serial No. 464,425. 2 Claims. (Cl. 248—38.)



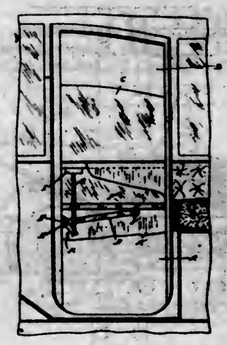
2. In a holder of the character described, a base plate, a side brace, and means for removably hinging said side brace upon said base plate, said means comprising a hook member projecting longitudinally from an end of said side brace, extending downwardly through an opening in said base plate and upwardly through a different opening in said base plate.

1,397,255. PLAYER-PIANO-ROLL CENTRALISER. JOSEPH F. LAUBA, Racine, Wis., assignor of one-fifth to Scott Player Action Co., Racine, Wis., a Corporation of Illinois, and four-fifths to The Northern Trust Company, trustee, Chicago, Ill., a Corporation of Illinois. Filed Jan. 3, 1920. Serial No. 349,229. 8 Claims. (Cl. 84—126.)



1. The combination with a player piano having a tracker bar and a removable record roll and a winding roll, of a roll centralising means therefor, comprising automatically controlled pneumatic means controlled by the winding roll for moving the record roll longitudinally to alined position with relation to the tracker bar.

1,397,256. COUNTERBALANCE MECHANISM FOR VEHICLE-WINDOWS. JOHN D. LAWRENCE, Toledo, Ohio, assignor to Dura Mechanical Hardware Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 27, 1920. Serial No. 413,014. 2 Claims. (Cl. 16—110.)



1. A counterbalance mechanism for a vertically slidable window member comprising a pivotal main arm adapted to bear upwardly upon said window member, a relatively short arm projecting at an acute angle from the pivotal end of the main arm, and a counterbalance spring secured to said short arm and extending upwardly to a suitable anchorage point.

1,397,257. COTTON-CLEANER AND BOLL-BREAKER. GROVER C. STACY, Dallas, Tex. Filed Feb. 19, 1920. Serial No. 359,761. 17 Claims. (Cl. 13—19.)

16. A screen bed for cotton cleaners, comprising side walls cut away to form parts of concaves, cross boards mortised at the bases of the curved portions forming a

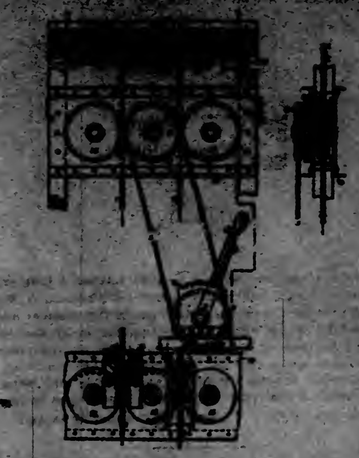
each pocket, and foraminous material covering the bed and following the curvature of its sides.

1,397,258. REVERSING ENGINE CONTROL MEANS. HENRY W. SUMNER, Seattle, Wash. Filed July 3, 1918. Serial No. 243,214. 11 Claims. (Cl. 122—41.)

1. An actuating device for timed parts of internal combustion engines comprising driving and driven parts, one having a gap and the other a projection entering said gap, and means for adjusting one of said parts to thereby vary the relative extent of gap and projection and thereby vary the lag between the driven and the driving parts.

1,397,259. ROPE-GRIP. WARREN TRAVELL, New York, N. Y. Filed May 8, 1919. Serial No. 295,756. 7 Claims. (Cl. 188—65.)

1. A double rope grip comprising friction jaws; toggle-wheels whereon said friction jaws are suitably mounted, ropes when gripping the other rope; and means for applying power to and controlling the motion of said toggle wheels.



1,397,269. GARBAGE-CAN. JOHN H. TROTTER, New York, N. Y. Filed Nov. 26, 1919. Serial No. 341,134. 4 Claims. (Cl. 220—87.)

1. The combination of a garbage receptacle having a cover to permit the opening and closing of the receptacle, and a germicide or disinfectant container detachably connected with said cover and arranged to be supported thereby within the closed receptacle, the disinfectant holding part of said container being formed of wire gauze of a mesh to support a liquid without permitting the liquid to run through the same, substantially as described.

1,397,283. COLLAR. JAMES M. VAN HEUSEN, Jamaica Plain, Mass. Original application filed Aug. 1, 1917, Serial No. 183,889. Divided and this application filed Mar. 15, 1919. Serial No. 282,693. 5 Claims. (Cl. 2—87.)

4. A soft folding or turn down collar made up of a neck band portion and a folding or turn down portion, one of said portions being of multiply fabric, the other of said portions being built up of single ply fabrics, said portion



of multiply fabric having woven integral therewith a thin edge to which the other portion of the collar is secured.

1,397,282. WRENCH. HENRY BUTT, Versailles, Ohio. Filed Apr. 16, 1921. Serial No. 461,899. 1 Claim. (Cl. 81—152.)



A wrench comprising a shank having a stationary jaw, a co-acting jaw movable along the shank, said movable jaw having a rightangular extension parallel with the shank and bearing against one edge of the same, a guide arm connected to the extension in parallel relation to the movable jaw and having a passageway for the shank, a locking dog having a transversely disposed bar mounted in and contained wholly within an open bearing provided in the face of the extension next to the shank, said dog having arms located at each side of the shank, and a shank-engaging bar carried by the free ends of the arms and adapted to impinge against the rear edge of the shank, said dog lying substantially flush with the side faces of the movable jaw and guide arm and having no projecting parts, and a twin leaf spring mounted in the said extension and adapted to bear against the arms of the dog to force the same in position to impinge on the shank.

1,397,263. WHISTLE. HAROLD J. CARMODY, Brooklyn Manor, N. Y., assignor of one-half to Joseph A. Faurot, New York, N. Y. Filed Feb. 16, 1918. Serial No. 217,719. 5 Claims. (Cl. 46—46.)



1. A whistle comprising, in combination, a hollow body portion having a vent opening in its side wall, a valve slidably mounted on the body portion to cover and uncover said vent opening, a mouth piece movable with said valve and having a mouth opening, an air director fixed relative to said vent opening, and a valve adapted to open and close said mouth opening by movement of said mouth piece, said last mentioned valve being fixed to said body portion and disposed outside the whistle when the mouth opening is open.

1,397,264. PROCESS OF PRODUCING AMMONIUM CHLORID. OSCAR LUDVIG CHRISTENSSON and EMIL IVAN MATHIAS CHRISO, Stockholm, Sweden; said Chriso assignor of his entire right to Bror Albert Hedman, Stockholm, Sweden. Filed Jan. 12, 1921. Serial No. 436,819. 4 Claims. (Cl. 23—13.)

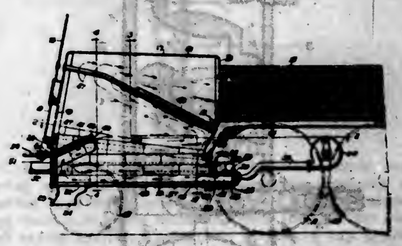
1. Process of producing ammonium chlorid in coking, distilling or combusting coal, lignate, bituminous slates or other organic substances containing nitrogen, comprising adding a chlorid of a metal whose hydroxid is alkaline and free silica to the material to be treated, and collecting the ammonium chlorid formed.

1,397,265. LAND SCRAPING AND LEVELING MACHINE. JAMES T. COMPTON, Pixley, Calif. Filed Sept. 30, 1920. Serial No. 413,681. 6 Claims. (Cl. 37—7.)



1. A land scraper and leveler comprising a mounting, a cutter shaft extending transversely of the frame, a scraper blade, arms extending from said cutter shaft, links pivotally connected with said arms and loosely connected with said blade, draft means having connection with said blade, and means for rotating said rocker shaft to impart vertical movement to said blade, said means having connection with the blade for tilting the blade forwardly and rearwardly as it moves vertically.

1,397,266. METHOD OF BURNING COMMINUTED FUEL. JOSEPH H. COOPER, Chicago, Ill. Filed July 20, 1918. Serial No. 245,802. 7 Claims. (Cl. 110—28.)



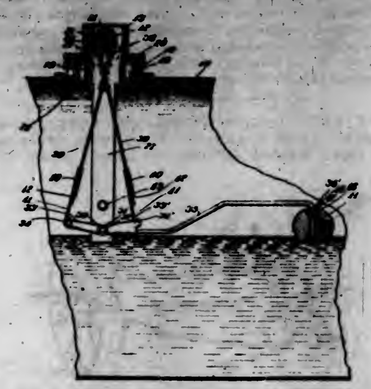
1. The herein described method of burning comminuted fuel, which consists in causing a flame from said fuel to travel the length of a fire-box four times between its introduction and emission.

6. The herein described method of burning comminuted fuel, which consists in introducing downwardly into the top of a mixing chamber a rich mixture of fuel and air, projecting oppositely and upwardly into said chamber a current of heated air, projecting horizontally across said first named current a draft of cold air, and igniting the mixture thus produced.

1,397,267. LIQUID-LEVEL INDICATOR. CLAUDE B. COX, Detroit, Mich. Filed Jan. 29, 1920. Serial No. 352,600. 14 Claims. (Cl. 73—32.)

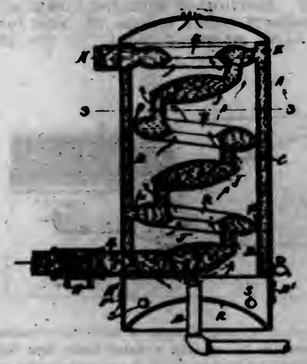
1. In a pressure-system liquid-level indicator of the character described, the combination of a gage casing hav-

ing an opening and a hollow stem, a removable sealing partition, a magnet in rear of said partition, and an armature and hand in front of said partition; a flexible shaft connected with said magnet and having a slip coupling member on its remote end, said shaft being of sufficient length to extend to the gasolene tank, a tank-float assem-



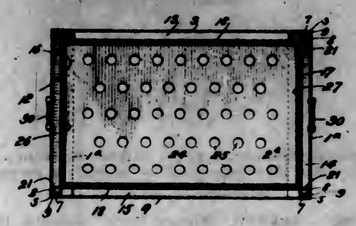
bly having a head, a transmission part carried thereby provided with a complemental coupling member to receive the shaft-carried member, a ductile tube inclosing the flexible shaft, and detachable seal-couplings between opposite ends of said tube and, respectively, the tank assembly head and the gage-stem.

1,397,268. WATER-HEATER. EDWARD T. CURRAN, Detroit, Mich. Filed June 6, 1918. Serial No. 238,428. 3 Claims. (Cl. 122—166.)



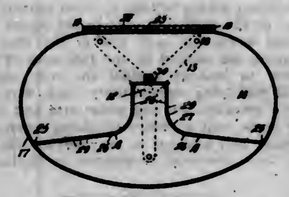
2. In a water heater, the combination with a combustion chamber having an opening in the bottom for the passage of a gas burner and an opening in the top for the escape of the products of combustion, of a heating element arranged in said chamber comprising a series of annular and lenticular shaped water chambers arranged in superposed relation, said lenticular chambers being of smaller diameter than the interior of the combustion chamber and the annular chambers of substantially the same diameter as the interior of the combustion chamber; means to connect said chambers in water circulation; a water inlet to the lowermost of said chambers arranged to be connected to a source of supply; and a water outlet from the uppermost of said chambers.

1,397,269. KNOCKDOWN REFRIGERATING-BOX. HERMAN U. DOREN, New York, N. Y. Filed Feb. 26, 1921. Serial No. 448,546. 7 Claims. (Cl. 45—102.)



1. A knock-down refrigerating box composed of sheet metal and comprising a rectangular outer box body formed of substantially flat side and end members each provided with coöperating interlocking flanges; a rectangular lining body also comprising substantially flat side and end members adapted to provide an ice-containing chamber; a removable bottom seated in said ice-containing chamber and adapted to form an ice carrier and a cover for said outer box body.

1,397,270. WASHING-MACHINE. EDWARD H. DOLDER, Serena, Ill. Filed Mar. 31, 1920. Serial No. 370,072. 5 Claims. (Cl. 68—21.)

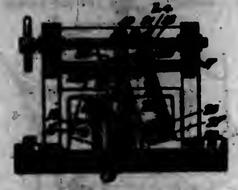


1. In a washing machine having a suitable standard, the combination with a vessel having a smooth interior surface, said vessel being pivotally supported on said standard and adapted to contain the articles to be washed and the washing solution; of partitions within said vessel extending substantially parallel to the pivotal axis thereof, said partitions being provided with openings therein adapting a washing solution to pass therethrough, said partitions being arranged to divide the interior of the vessel into an upper compartment and a relatively smaller lower compartment, said partitions being also upwardly extended in spaced relation on opposite sides of the pivotal axis near the center of the vessel to form a barrier and thereby divide the upper compartment into two portions, whereby the articles in each chamber are alternately subjected to immersion in and withdrawal from the washing solution as the vessel is oscillated.

1,397,271. ROLLING-MILL FOR BENDING ANGLE OR CHANNEL IRON INTO DIFFERENT ANGLES. JOHN P. ECKENROTH, Chester, Pa.; Mary A. Eckenroth executrix of said John P. Eckenroth, deceased. Filed Sept. 25, 1918. Serial No. 255,559. 2 Claims. (Cl. 153—36.)

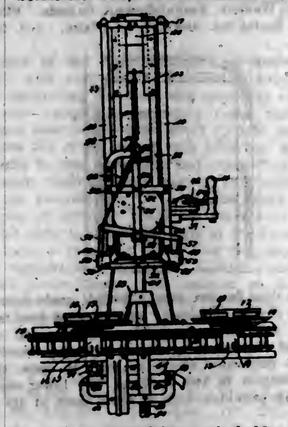
1. In a rolling mill of the character stated, a pair of bending rolls of different lengths, a second pair of bending rolls of different lengths, a rocker bearing for the gudgeons

at one end of each of said pairs of rolls, and an independent rocker bearing for the other end of each of the longer



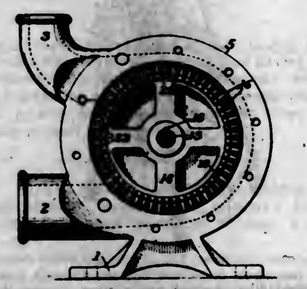
rolls, said rolls being arranged to act upon and bend both limbs of a channel iron during a single pass thereof through said rolls.

1,397,272. PIE-MAKING MACHINE. WILLIAM EHRLICH, Chicago, Ill., assignor to Case & Martin Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 20, 1919. Serial No. 327,252. 22 Claims. (Cl. 107—1.)



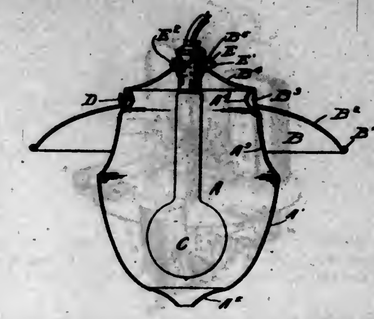
5. A pie machine comprising a pie holder mounted for movement along a substantially straight path; and a crimping head mounted for movement in a circular path, said paths being disposed so that the crimping head and pie holder approach each other at points in their paths.

1,397,273. CENTRIFUGAL PUMP. MATTHEW J. FINN, Pittsburgh, Pa. Filed Jan. 21, 1921. Serial No. 438,837. 11 Claims. (Cl. 253—176.)



1. An impeller for centrifugal machines, having a plurality of peripheral vanes, a lateral wing on each side thereof near the base of said vanes, and notches in said wings substantially as described.

1,397,274. LIGHTING-FIXTURE. MAX FIRMAN, Brooklyn, N. Y. Filed Sept. 10, 1920. Serial No. 408,885. 1 Claim. (Cl. 240—92.)



In a lighting fixture, the combination of a support, a single-piece reflector having an inner downwardly convex portion, an intermediate annular vertical portion, and an outer downwardly concave portion, a single-piece globe of translucent material having an annular groove at its top fitting within the vertical portion of the reflector, and an outwardly concave portion opposed to the outer portion of the reflector, supporting means for the globe carried by the vertical portion of the reflector and engaging the groove, and means carried by the inner portion of the reflector for attaching the same to the support.

1,397,275. GAGE DEVICE. JOHN J. FITZGERALD, Los Angeles, Calif. Filed July 11, 1919. Serial No. 310,153. 7 Claims. (Cl. 73—111.)

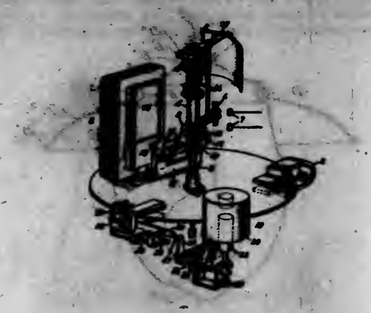


1. A pressure gage including a tubular terminal head having means at one end for detachably engaging an opening in a fluid pressure container, a valve-engaging seat thereon, a barrel projecting from the terminal head and having exterior graduations thereon, a cap applied to the outer end of the barrel, a plunger slidable within the barrel, a stem carried by the plunger and passing slidably through the cap, a spring interposed between the cap and the plunger, an outer tubular shell telescoping upon the barrel and movable outwardly by the stem, said shell then coöperating with the graduations on the barrel to indicate the pressure, and friction means carried by the before-mentioned cap for engaging the outer shell to hold it in an adjusted position when the plunger returns to the inner end of the barrel.

1,397,276. PROTECTIVE DEVICE. HENRY G. FRENCH, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 24, 1919. Serial No. 333,020. 16 Claims. (Cl. 175—294.)

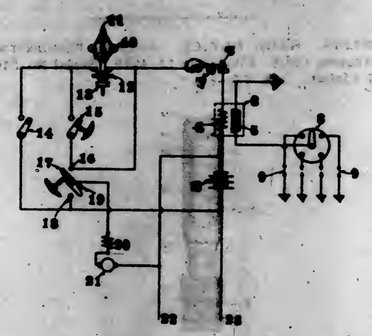
6. In a relay device, the combination with a rotatable armature, a torque element for rotating said armature,

relatively movable coöperating contacts adapted to be brought into engagement by the rotation of said armature,



and means for resetting said contacts independent of said armature.

1,397,277. IGNITION-SWITCH. Valtee A. Fynn, St. Louis, Mo., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Mar. 2, 1918. Serial No. 221,068. 3 Claims. (Cl. 200—38.)



3. In an ignition and starting system for internal combustion engines, a starting motor, a starting switch therefor, a primary ignition circuit, comprising a source of current, a timer and an ignition switch, means governed by the speed of the engine for closing and opening the ignition switch, an auxiliary circuit in shunt with the contacts of the ignition switch, a spring controlled switch in said circuit, the spring tending to hold the switch in open position, and means controlled by the motor starting switch for closing the primary ignition circuit independently of the ignition switch.

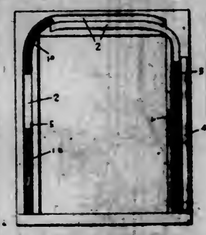
1,397,278. SPEED-REGULATING APPARATUS. Valtee A. Fynn, St. Louis, Mo., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed July 5, 1919. Serial No. 308,905. 14 Claims. (Cl. 290—36.)

A. The combination of a prime mover, speed controlling means therefor, means for actuating the speed controller, said means comprising a generator driven by the prime mover and provided with means causing its excitation to vary with the armature reaction flux and speed of the generator, and an independent source of E. M. F. in



circuit with the generator and connected to oppose the generator E. M. F.

1,397,279. GRAIN-DOOR FOR BOX-CARS. Wilfrid Gelineau, Wadena, Saskatchewan, Canada. Filed Sept. 3, 1920. Serial No. 408,626. 1 Claim. (Cl. 20—32.)



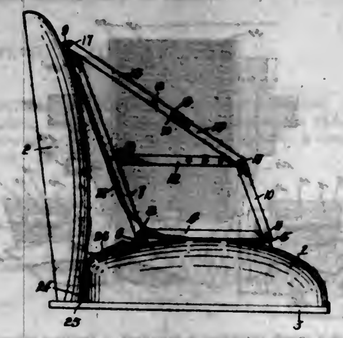
In a grain door for box cars, a flexible grain door of slat formation, a channel guideway wherein said door is adapted to slide, and slide pieces integrally connected on said guideway and adapted to be swung into and thereby close said channel guideway when the door is open, the said door being formed in two sections, the lower one of said sections being provided with a relief door at its bottom edge.

1,397,280. STEPLADDER. Hubert M. Graf, Kansas City, Mo. Filed Sept. 10, 1920. Serial No. 409,402. 9 Claims. (Cl. 228—29.)



1. A stepladder, having an opening at one side of its steps, a pair of bars pivotally suspended within said opening, foldable braces between the said bars and the frame of the stepladder, and a vertically adjustable table on said bars.

1,397,281. FOLDABLE CHILD'S SEAT FOR AUTOMOBILES. Thomas A. Hall, Toledo, Ohio. Filed July 25, 1921. Serial No. 487,217. 2 Claims. (Cl. 155—71.)



1. A seat of the class described, comprising spaced forwardly and rearwardly extending base-bars, cross members connecting the front and rear ends of the cross-bars, a rear upright bar pivotally rising from the rear end of each base bar, a front short upright bar pivotally rising from the front end of each base bar, an arm rest bar parallel to the base bars and connecting the upper end of each front upright bar to the respective rear upright bar intermediate its ends and being pivoted to each, a pair of hingedly connected brace bars pivoted at their outer ends to the upper ends of the front and rear upright bars, a cross-bar connecting the upper ends of the rear upright bars, a curved member connecting the upper and lower front cross member to form a seat and back portion, and means for anchoring the child's seat to an automobile seat.

1,397,282. FLUID-HEATER. John H. Hanley, Jr., and John L. Krebs, New York, N. Y. Filed Sept. 16, 1920. Serial No. 410,591. 11 Claims. (Cl. 257—230.)



4. In fluid heating apparatus, a tank having a fluid inlet, a tubular flue located in the tank and having a fluid passage therethrough connecting at one end with the body of the tank, the other end of said passage being positioned to receive directly fluid from said inlet, and a fluid heating element in the passage.

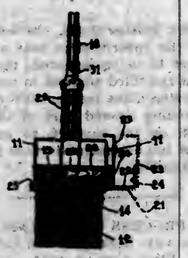
1,397,283. THREAD-BREAKING DEVICE FOR SPINNING-MACHINES. Ferdinand Q. Hartman, Danville, Pa. Filed May 31, 1918. Serial No. 237,600. 4 Claims. (Cl. 19—25.)

2. A thread breaking device for spinning machines in which several threads are independently spun and wound on a single take-up spool, comprising thread guide levers each pivoted in position to drop when its thread breaks, a counterbalanced thread breaker pivoted to swing into position to break a thread, the said breaker being located in position to be thrown off center by the dropping of a thread guide lever, and manually controlled means for temporarily holding the said breaker in inoperative po-



sition, said means comprising a detent mounted on a shaft journaled in the device and a handle for rocking the shaft and detent.

1,397,284. MOP. John T. Heaton, Chicago, Ill., assignor of one-half to Thomas J. Fullen, Jr., and one-half to Philip F. Quinlan, Chicago, Ill. Filed Dec. 18, 1920. Serial No. 431,070. 9 Claims. (Cl. 15—56.)



1. The combination of a handle; a bar revolubly mounted thereon; a mopping member carried by said bar; means for rotating said bar for winding the mopping member thereabout; a second bar slidably mounted adjacent to said first named bar; a bail member connected with said second bar for moving it away from the first named bar; a spring interposed between said bail and said handle adapted to hold said second bar yieldingly in close proximity to said first named bar; and a lever swingingly mounted on said bail adapted by manual pressure on said handle to hold said second bar by friction in stationary position against the action of said yielding means.

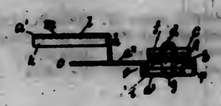
1,397,285. DEVICE FOR CONNECTING BOWLS AND SHADES IN LIGHTING-FIXTURES. Walter R. Kahns, Brooklyn, N. Y., assignor to J. E. White Manufacturing Company, Brooklyn, N. Y., a Corporation of New York. Filed Feb. 4, 1921. Serial No. 442,840. 1 Claim. (Cl. 240—115.)

A device for supporting a bowl from a shade in lighting fixtures, comprising a hollow stud having an annular flange at one end to bear against the under surface of the shade, and an interior shoulder, a removable slotted member within said stud seated upon said shoulder, said stud being exteriorly threaded and adapted to enter a hole in the shade, a nut screwed upon the said threaded stud to secure it to the shade, another hollow stud provided with a threaded stem projecting at right angles on one

side adapted to enter a hole in the bowl, a nut screwing it thereto, said second stud also having an interior shoulder, a removable slotted member within said stud abutting against said shoulder, and a flexible chain connection between said studs, its respective ends being attached to said slotted members through the slots therein.

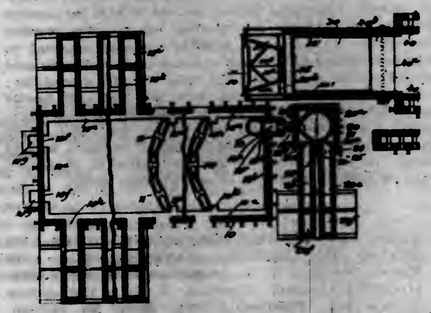


1,397,286. TENSION DEVICE OR YARN-CLEANER FOR CREELS FOR USE IN WARPING OR BEAMING. GEORGE KENSHAW, Whitworth, England. Filed Feb. 20, 1920. Serial No. 360,106. 12 Claims. (Cl. 242—147.)



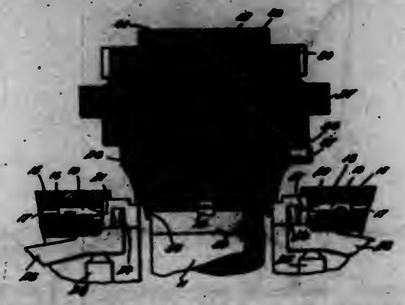
1. A support for tension disks, characterized by three horizontal parts, the uppermost to bear against a rail on which the support is to be mounted, the second having a guide notch and the third adapted to bear tension disks, a plurality of tension disks horizontally mounted thereon and an arm extending around part of the circumference of a tension disk on the support, to present its upper edge a little below the horizontal surface presented by one tension disk to another.

1,397,287. PROCESS OF MAKING PLATE-GLASS. JOHN H. MCKELVEY, Kirkwood, and CHARLES F. RYAN, St. Louis, Mo. Filed Apr. 12, 1915. Serial No. 20,861. 2 Claims. (Cl. 49—87.)



1. The process of making plate glass consisting in first melting the constituents in a furnace, tank, or the like, then conveying and segregating a portion of the molten glass in a collection chamber, then treating said portion by subjecting it to a heat independent of and controlled independently of said furnace for such period of time and at such temperature as to refine such portion, and thereafter depositing said molten glass directly upon a subjacent rolling table and finally rolling same.

1,397,288. SUSPENSION-SLEEVE FOR GRINDING-MACHINES. RAMATHIL G. MADDAHAN, North Attleboro, Mass. Filed Jan. 3, 1921. Serial No. 434,772. 9 Claims. (Cl. 140—3.)



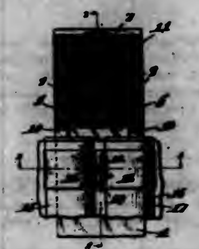
1. In a mesh machine, a mandrel, a feeding sleeve rotatably mounted around the mandrel, and a rigid suspension sleeve engaging the mandrel and the feeding sleeve.

1,397,289. GRINDING-MACHINE. ALBERT H. MAYNARD, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed May 10, 1920. Serial No. 380,393. 8 Claims. (Cl. 51—209.)



5. An attachment for a grinding machine comprising a table having a depending attachment stud and an upwardly projecting positioning plate, a pair of clamping plates carried by the table and terminating in upwardly projecting clamping jaws, means for simultaneously shifting the jaws into or out of operative position, and means on the positioning plate for preventing movement of both jaws in the same direction.

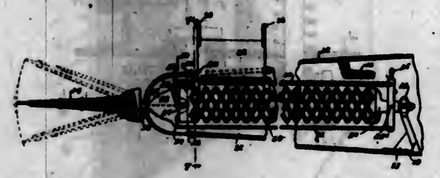
1,397,290. TRANSFER-CLAMP. AUGUST NELSON, Chicago, Ill. Filed Nov. 28, 1919. Serial No. 341,117. 8 Claims. (Cl. 40—11.)



8. A device of the class described comprising a backing member; an elastic member mounted upon said backing member; a wire loop adapted to engage against said elastic member; a spiral coil formed at each end of said wire loop, the ends thereof projecting downwardly and engaging against said backing member; a pin passing through said spiral coils; split keys engaging said pin and passing through said elastic member and backing member for mounting said loop upon said backing member; and means for clamping said backing member to a change container, substantially as described.

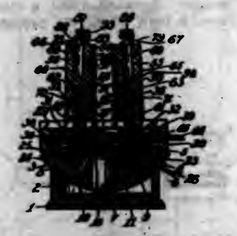
1,397,291. [WITHDRAWN.]

1,397,292. AEROPLANE. GEORGE ORTGIES, East St. Louis, Ill. Filed June 1, 1920. Serial No. 385,588. Renewed Oct. 8, 1921. Serial No. 505,568. 5 Claims. (Cl. 244—29.)



1. An aeroplane comprising a body portion and rear tubular portion, a partially rotating rigid skeleton member located within the tubular portion having one end pivotally mounted therein, a hand lever pivotally connected thereto, a guiding plane mounted in the rear end of the rear portion and pivotally connected to one end of the skeleton member and capable of vertical and lateral adjustment, and a connection between said guiding plane and hand lever whereby the said guiding plane may be vertically and laterally adjusted simultaneously.

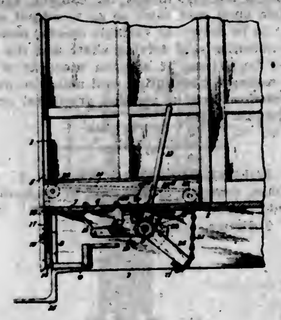
1,397,293. ENGRAVING-BLOCK. HORACE PLUMMER, Lawrence township, Marion county, Ind. Filed Mar. 6, 1919. Serial No. 281,009. 12 Claims. (Cl. 81—4.)



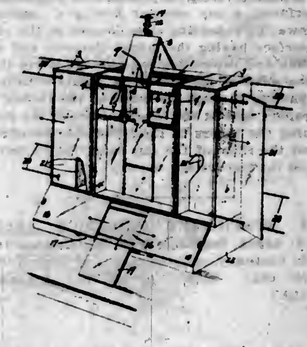
1. An engraving block including a table, two vise jaws removably mounted upon the table and adjustable each toward the other and also rotatably on the table, each vise jaw having a cylindrical socket in the top thereof that has a cylindrical counterbore of uniform diameter extending from the top of the jaw, a plurality of hollow cylindrical holders removably and rotatively seated on the bottom of the counterbore in the sockets respectively, each holder being laterally supported in the socket immediately at the top of the jaw and having each an annular projection at its top, the projection having a beveled edge facing toward the vise jaw, and a plurality of studs adjustably supported vertically and rigidly secured in the holders respectively.

1,397,294. AUTOMATIC RAISING AND LOWERING STEPS. ERNEST B. REMDER, Madison, Ind. Filed Apr. 5, 1921. Serial No. 459,010. 5 Claims. (Cl. 105—431.)

1. In combination with a car having a platform and vertical side walls forming a housing for a stairway; of a permanent step secured between said side walls, upper and lower adjustable steps adapted to coöperate with said permanent step and means separately operative for manually disposing said adjustable steps to their operative and inoperative positions.

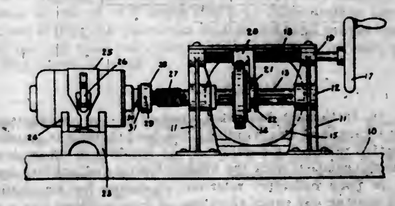


1,397,295. OFFICE FURNITURE. GEORGE A. RITZ, Rochester, N. Y. Filed Mar. 26, 1920. Serial No. 369,018. 5 Claims. (Cl. 40—1.)



1. In office furniture, the combination with a box of hollow doors hinged thereto, cords secured to the inner surface of one of the walls of each of said doors, and panels movable on said cords and adapted to occupy a nested position within said doors.

1,397,296. TEST-STAND FOR TESTING GENERATORS. JOSEPH C. SCHAF, Jr., and WILLIAM J. HOLLIDAY, Indianapolis, Ind. Filed Nov. 20, 1920. Serial No. 425,532. 6 Claims. (Cl. 73—51.)



1. A test stand for testing generators and the like including an electric motor having a friction disk, a driving

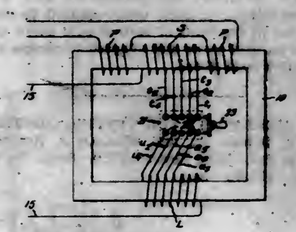
shaft, a friction wheel slidably mounted on said driving shaft so as to engage said friction disk and be driven at variable speeds thereby, means for causing said friction wheel to slide upon said shaft so as to adjust said wheel and cause it to be driven at variable speeds, means for operatively connecting said driving shaft and the generator to be tested for driving it a given speed at which it is tested, and means for mounting said motor so as to maintain said friction disk in yielding frictional engagement with said friction wheel.

1,397,297. ROLLER-BEARING. WILLIAM L. SCRIBNER, Toledo, Ohio, assignor of one-half to Richard T. Dawson, Toledo, Ohio. Filed May 15, 1920. Serial No. 381,664. 2 Claims. (Cl. 64—62.)



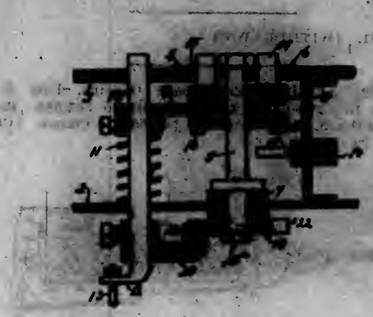
2. In a roller bearing, a plurality of rollers having tapered surfaces, a cup member having a conical surface and an inwardly extending ridge located at the edge of the conical surface having the larger diameter and an elastic contractible and expansible cage having parts thereof engaging the sides of the rollers at points within the cone surface passing through the axes of the rollers for holding the rollers against the inner surface of the cup and for maintaining the rollers in their positions relative to each other, and the ridge of the cup operating to maintain the rollers and the cage within the cup.

1,397,298. STATIONARY INDUCTION APPARATUS. JOHN A. SEBUN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 15, 1921. Serial No. 445,112. 4 Claims. (Cl. 171—119.)



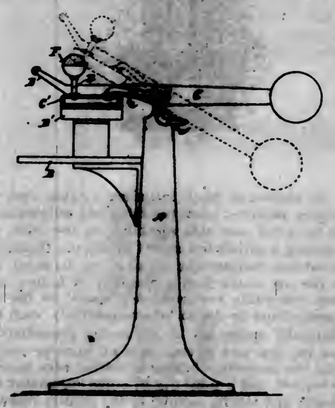
1. In stationary induction apparatus, the combination with a core, and two windings disposed thereon in mutual inductive relation, a portion of one winding being in good inductive relation with the other winding and another portion in poor inductive relation, of means for simultaneously cutting out turns from one of said portions and cutting in a corresponding number of turns of the other portion, whereby the per cent. reactance is altered without altering the resultant terminal voltage of said portions.

1,397,299. LACE-BRAIDING MACHINE. HENRY LEWIS SMITH, Philadelphia, Pa., assignor to Oliver Ellwell, Philadelphia, Pa. Filed Mar. 30, 1920. Serial No. 367,645. 4 Claims. (Cl. 66—4.)



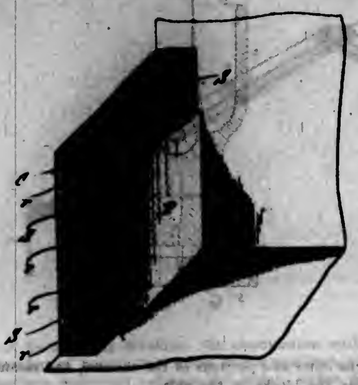
4. In a lace braiding machine, a raceway plate, a bottom plate, posts carried by the bottom plate and projecting through the raceway plate, driver disks on said posts, an operating clutch member mounted on each of said posts, upwardly projecting pins carried by said clutch members for coaction with the driver disks, gear pins depending from the operating clutch members, an oscillating rack adapted to be engaged by said gear pins whereby a rotary motion may be transmitted to the driver disks, and means to actuate the operating clutch members to move the gear pins into engagement with the rack.

1,397,300. CLOTHES-PRESSING APPARATUS. ARTHUR E. SNOW, Erie, Pa., assignor to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Filed June 19, 1918. Serial No. 240,866. 6 Claims. (Cl. 68—9.)



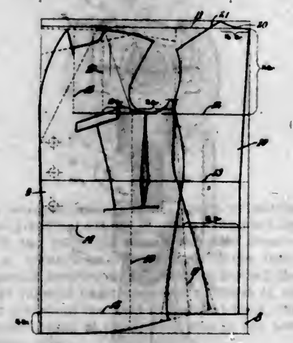
1. In a combined press and puff iron structure, a press including a hollow member provided with steam supply means, a puff iron mounted upon and arranged above said member, and steam connection between said puff iron and said member.

1,397,302. STRUCTURAL FRAMEWORK FOR WALLS, PARTITIONS, ROOFS, &c. FRANCIS P. SMART, Brooklyn, and HERBERT S. BALLEY, New York, N. Y. Filed Oct. 18, 1920. Serial No. 417,717. 7 Claims. (Cl. 72—16.)



1. Structural frame work of the character designated comprising a plurality of hollow skeleton sections of reticulated metal in block form, each of telescopic parts.

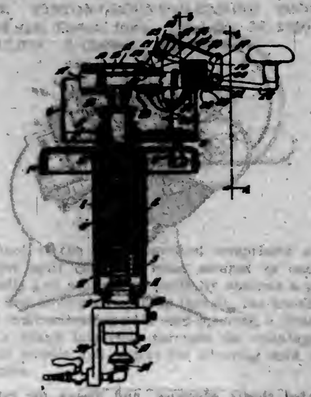
1,397,303. CUTTING SYSTEM. JOHN TARASOFF, New York, N. Y. Filed Aug. 31, 1920. Serial No. 407,107. 1 Claim. (Cl. 33—17.)



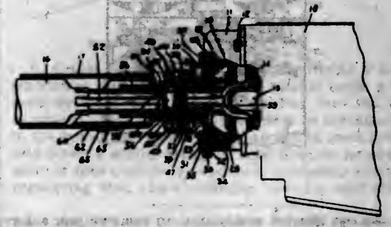
The system of laying out coats for cutting which consists in providing a pattern on which are marked a series of horizontal lines comprising top, breast, waist, seat and bottom lines; said pattern having also a pair of vertical lines extending the full distance thereof at the armhole portion thereof, and a second pair of vertical lines extending from the breast line to the waist line in front of the armhole, proportional measurements along the seat, breast and top lines being based on the breast measurement as a unit, while the distance between the top and breast lines is made one-quarter of the breast line.

1,397,303. COLLAR-SHAPER. CHARLES E. WARREN, Norwood, Ohio, assignor to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Filed Oct. 26, 1920. Serial No. 419,238. 21 Claims. (Cl. 68—9.)

1. A collar shaper, comprising a collar mold member and an ironing member movable one along the other for the ironing operation, said members also having relative movement toward each other, yielding means for producing pressure between said members when in ironing relation, and means for locking said ironing member in ironing relation for movement only in a fixed orbit during locked position.



1,397,304. DETACHABLE TRANSMISSION CONSTRUCTION. D'ORSAY MCCALL WHITE, Indianapolis, Ind., assignor to La Fayette Motors Company, a Corporation of Delaware. Filed Jan. 10, 1920. Serial No. 350,527. 3 Claims. (Cl. 180—68.)

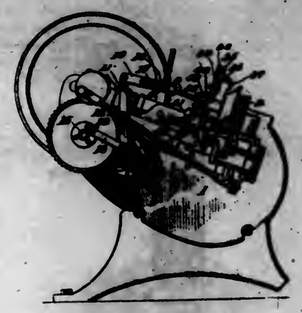


1. A transmission construction including in combination two adjacent and aligning shafts having similarly splined ends, a sleeve having splined slots therein, said sleeve being slidable longitudinally on said shafts, said sleeve having a pair of openings on opposite sides thereof, one of said shafts having an opening extending transversely of said shaft and therethrough, said opening being adapted to register with the openings in said sleeve, a pin insertible in said opening, said pin having a head portion adapted to engage in one of said sleeve openings to secure the sleeve against sliding movement on said shafts, and means operable through the other sleeve opening for securing said pin in said shaft opening.

1,397,305. SHEET-FEEDING MECHANISM. EDWIN WHITE, Baltimore, Md., assignor to Continental Can Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Oct. 9, 1920. Serial No. 416,820. 12 Claims. (Cl. 271—26.)

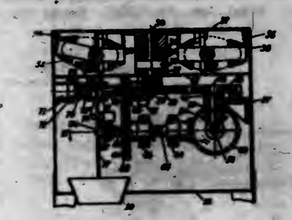
1. A sheet feeding mechanism comprising means for supporting a stack of sheets, suction cups, means for reciprocating the same to remove the sheets one at a time from the stack, means whereby the stroke of said reciprocating

means is automatically altered to compensate for the changing thickness of said stack, means for moving said



separated sheets edgewise, and means for releasing the suction cups prior to such edgewise movement.

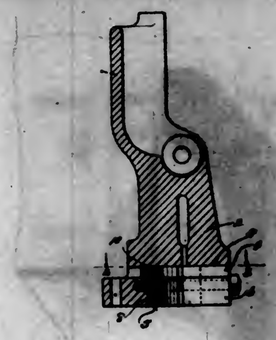
1,397,306. EGG-SHUCKER. WILLIAM C. WHITE, Portsmouth, N. H. Filed Mar. 9, 1921. Serial No. 451,004. 16 Claims. (Cl. 146—7.)



1. An egg-shucker comprising, in combination, a turret, a plurality of egg-holders movable by the turret in a circular path, an oscillatory knife movable in a path which intersects the path of the egg-holders, and operating mechanism including knife-actuating means for causing an oscillatory movement of the knife, and means for rotating the turret step-by-step, said mechanism being organized to hold the egg-holders successively in the path of the knife, and to partially rotate the turret while the knife is out of the path of the egg-holders.

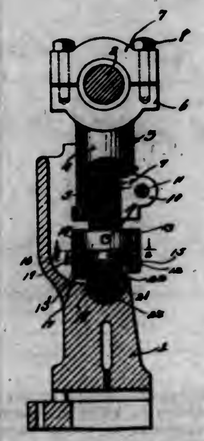
1,397,307. PUNCH-PRESS CHUCK. THEODOR ZETTERLUND, Milwaukee, Wis., assignor to Milwaukee Press & Machine Co., Milwaukee, Wis. Filed Mar. 22, 1920. Serial No. 367,858. 1 Claim. (Cl. 279—85.)

A device of the class described including a chuck body having a chuck block seat, said seat having a block entrance through one wall of the body, the portion of the wall of the seat opposite said entrance being curved, the wall of said seat having a continuous channel, its opposite ends being in communication with said entrance, a pair of blocks slidable into and out of the seat through said entrance, the inner block having one side curved to the shape of the curved portion of the seat wall and provided with a flange engageable in the channel of the last mentioned portion of the seat wall, the outer block having flanges extending from its opposite sides for engagement



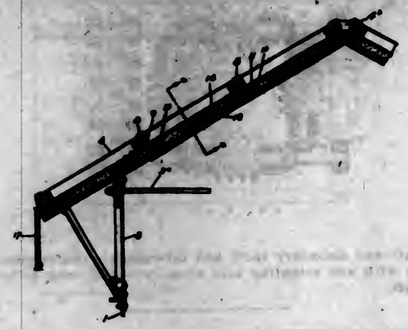
with the outer end portions of the channel, and means for securing the blocks in the side.

1,397,308. CROSSHEAD PITMAN CONNECTION. ADAM ZISKA, Jr., Milwaukee, Wis., assignor to Milwaukee Press & Machine Company, Milwaukee, Wis. Filed Mar. 22, 1920. Serial No. 367,846. 3 Claims. (Cl. 74—48.)



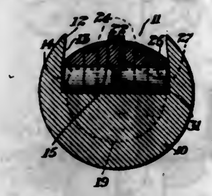
3. In a machine of the class described, a tool carrying member, a crank, and means connecting the same including a two part connector plate pivoted to the tool carrying member and having a flat bearing surface surrounding a socket therein, one part of the plate being removable to provide access to the socket, an internally threaded sleeve open at one end and having its other end connected with said crank, a threaded stem disposed in said sleeve and having a portion projected therefrom, a head on the projected end of the stem and rotatably disposed in said socket, said head being positioned in said socket when the separable portion of the connector plate is removed, and a flange extending radially of said stem, said flange having a flat face for engagement with the bearing surface of the connector plate.

1,397,309. HOOD-SUPPLEMENTED MEANS FOR DRYING-MACHINES. HARRY T. HAINES, Dayton, Ohio, assignor to The Management, Engineering and Development Company, Dayton, Ohio, a Corporation of Ohio. Filed Apr. 16, 1921. Serial No. 461,961. 4 Claims. (Cl. 34—48.)



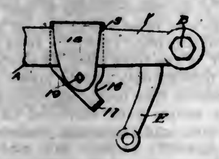
2. In a drying machine, the combination with a hood therefor, of longitudinal truss frame members, transverse members supported between the latter, straps depending from said transverse members, corrugated asbestos sheets bolted to the lower ends of said strap, and gypsum supported by said asbestos sheets.

1,397,310. WINDER-SHAFT. JAMES H. BAKER, Saratoga Springs, N. Y. Filed Oct. 22, 1920. Serial No. 418,776. 3 Claims. (Cl. 242—72.)



1. A collapsible shaft comprising a cylindrical body having a longitudinal groove therein, a segment member adapted to fit the outer portion of the said groove, and a plurality of transverse ribs secured to the inner surface of the segment member and extending beyond the same, with the ends tapered to fit undercut portions of the said longitudinal groove in the said cylindrical body, the base of the said groove being of the same width as the base of the said transverse ribs.

1,397,311. STOPPING DEVICE FOR STEERING APPARATUS. PERCY D. BENBOW and WILLIAM E. BECK, Winston-Salem, N. C. Filed Aug. 4, 1920. Serial No. 401,196. 2 Claims. (Cl. 280—89.)



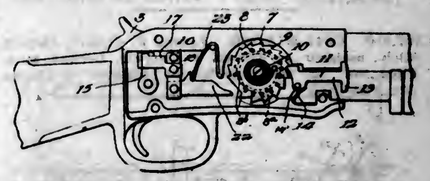
2. In combination, an axle, a spindle arm movably mounted on the axle, and a stopping device comprising a head disposed in the path of movement of the spindle arm and adapted to define the innermost position of said arm, and means for supporting said head in longitudinally adjusted position along the axle whereby the stopping position of the head can be varied to vary the innermost position of said arm.

1,397,312. PISTON-GROOVE-CLEANING TOOL. JOE M. BOWMAN, Tipton, Iowa. Filed Oct. 18, 1920. Serial No. 417,674. 3 Claims. (Cl. 83—64.)



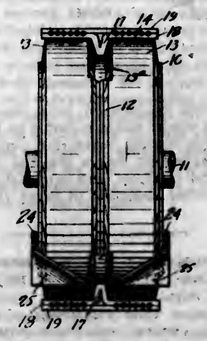
1. A tool of the class described comprising a handle, a resilient split clamping band secured to one end of said handle and adapted to partially encircle a piston or cylinder and having an opening therein, the handle having a socket communicating with said opening, a cleaning tool having a shank insertible through the openings in the band and handle and means for securing said shank to said handle.

1,397,313. REGISTER FOR FIREARMS. ALFRED COPELLI and FRANK ALBI, Spokane, Wash. Filed Apr. 26, 1917. Serial No. 164,776. 2 Claims. (Cl. 235—91.)



1. A shot register for fire arms comprising a rotatable registering disk having peripheral ratchet teeth, a pivoted lever provided with an arm extending into the path of movement of the hammer of the arm to be actuated thereby in its falling movement, a disk actuating pawl carried by said lever, a spring acting on said pawl to retract it and move it into position to engage a succeeding tooth of the registering disk, and a retaining pawl for said disk.

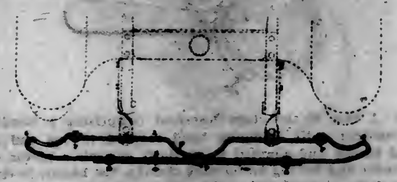
1,397,314. TRACTOR. ABRAHAM B. COX, Cherry Valley, N. Y. Filed May 24, 1920. Serial No. 383,756. 1 Claim. (Cl. 305—10.)



A tractor having wheels spaced apart and provided with circumferential grooves near the center thereof, and a

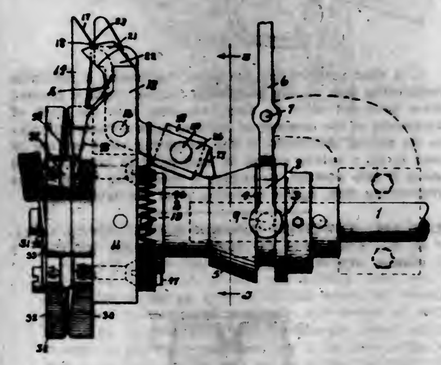
frame comprising cables for close connection, and outer and inner plates fitting over the said cables and clamping them between them, the inner plates being flanged with inturned bends which fit in the grooves of the wheels.

1,397,315. AUTOMOBILE-BUMPER. WILLIAM G. COX, Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y., a Corporation of New York. Filed Sept. 6, 1921. Serial No. 498,663. 4 Claims. (Cl. 293—55.)



3. A spring bumper or buffer for an automobile, comprising a rear bar and a front bar united together at their corresponding ends but spaced apart between said ends and the rear bar having an arched portion at its middle engaging said front bar at its middle, an open face-plate of greater width than said front bar having an integral web at its middle bearing against said front bar, and means uniting said plate and front bar together.

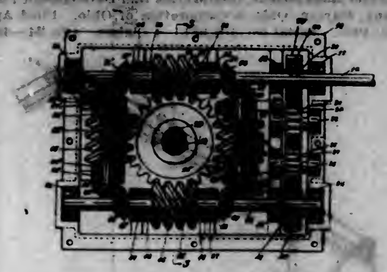
1,397,316. COIL-WINDER. JASPER F. CULLIN, Detroit, Mich., assignor to William J. Hartwig, Detroit, Mich. Filed Nov. 12, 1920. Serial No. 423,678. 6 Claims. (Cl. 140—92.2.)



1. In a winding machine for coils, the combination of a shaft and two winder plates mounted on the end thereof, and formed with central contacting portions on which the coils may be wound, and a shearing device mounted on said shaft and rotatable with said plates and having a plurality of cutting members to sever the ends of the finished coils.

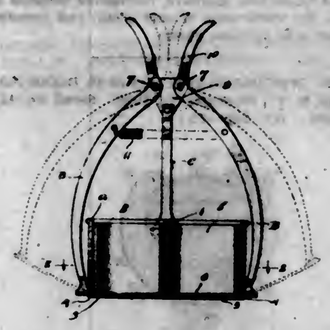
1,397,317. WORM-GEAR DRIVE. GEORGE F. ECKART, Cincinnati, Ohio. Filed Feb. 7, 1921. Serial No. 443,169. 4 Claims. (Cl. 74—89.)

1. A worm gear drive comprising a drive shaft, a secondary shaft, driving connections between said drive shaft and said secondary shaft, a plurality of intermediate shafts between said drive shaft and said secondary shaft, driving connections between said intermediate shafts and said drive shaft, said secondary shaft, a driven shaft, a worm wheel on said driven shaft, and worms on said drive



shaft and secondary shaft and intermediate shafts meshing with and actuating said worm wheel on said driven shaft.

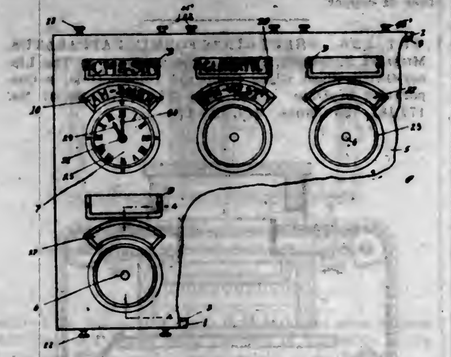
1,397,318. EGG-POACHER. ELMER R. FINK, Pocatello, Idaho. Filed Jan. 6, 1920. Serial No. 340,668. 8 Claims. (Cl. 53—1.)



1. A utensil for poaching eggs including a supporting member, an egg cup supported by said member and having an open bottom, a longitudinally slidable closure for the open bottom of the cup, and an actuating member pivotally secured to the supporting member and connected with the closure for withdrawing the latter from the open bottom of the cup.

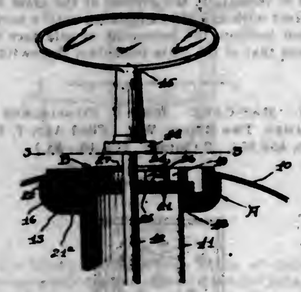
1,397,319. TIME-INDICATING DEVICE. WILLIAM A. LYONS, Litchfield, Minn. Filed Dec. 4, 1920. Serial No. 428,267. 2 Claims. (Cl. 116—131.)

1. A device of the class described, comprising a pair of spaced plates held in parallelism, one behind the other, a plurality of units of the class described, spaced from one another, supported on said plates, each of said units comprising an arbor perpendicular to said plates and extending between and through and beyond said plates and journaled in the rear plate thereof, a clock dial concentric with said arbor on the front plate, an aperture above said clock dial cut through each of said plates one behind the other, hand operable time indicating mechanism, including an hour and a minute hand supported on said arbor in front of said dial, said indicating mechanism extending laterally and upwardly between said plates around one side of said apertures to avoid obstruction of the line of vision through same and to and beyond the outer edge of said plates to be operated thereat, and hand operable sign display mechanism, including a rotary pinnard rotatably supported to the rear of the rear plate of said plates in concentric relation with said arbor, and extending over the aperture in said rear plate, said sign display mechanism extending laterally and upwardly around the other side of the aperture in said rear plate opposite said



time indicating mechanism to avoid obstruction of the lines of vision through same, and to and beyond the outer edge of said plates to be operated thereat.

1,397,320. FILLER-CUP AND CLOSURE FOR PRESSURE-TANKS. RAYMOND RHODEMAN MACDONOUGH, Minneapolis, Minn. Filed June 21, 1920. Serial No. 390,226. 2 Claims. (Cl. 220—66.)



1. The combination with an externally flanged barrel and plunger therefor having opposed lugs thereon, of a filler-cup having an opening in the bottom thereof to removably receive said barrel, an annular shoulder at the margin of said opening, internal segmental flanges within the filler-cup above said shoulder, a gasket resting upon the shoulder and adapted to receive the flange on the barrel, a removable cap, segmental flanges on said cap arranged to engage beneath the flanges of the cup and cooperate therewith to firmly secure the cap in holding position against the cylinder, said cap having a bore therein to slidably and rotatably receive the plunger, a hollow head on said cap, formed with a key-way in the top thereof to receive the lugs on the plunger and radial abutments within the head designed to be engaged by said lugs upon turning movements of the plunger, whereby the cap is turned and released from the cup or fixed in clamped relation with respect thereto.

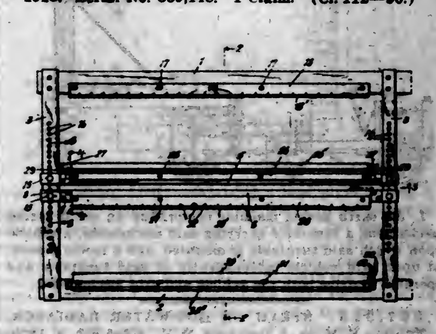
1,397,321. SPARK-PLUG. GEORGES MAGNELLI, New York, N. Y., assignor to A. R. Mosler & Company, Mount Vernon, N. Y. Filed Jan. 31, 1920. Serial No. 355,482. 4 Claims. (Cl. 123—169.)

1. In a mica spark plug, a shell, a baffle plate dividing the spark plug chamber into inner and outer compartments connected by a restricted passage, and a center electrode having a mica covering projecting into the inner compartment, said baffle plate being constructed to prevent a too rapid radiation of the heat from the baffle plate to the



shell, for keeping the exposed portion of the mica covering sufficiently hot without submitting it to the deleterious effects of direct contact with the hot combusted gases and oil.

1,397,322. EXPANDING FRAME FOR EMBROIDERY-MACHINES. KATHARINE MEYER, Carlstadt, N. J., assignor to Oswald Meyer, Carlstadt, N. J. Filed Nov. 19, 1919. Serial No. 339,148. 1 Claim. (Cl. 112—90.)

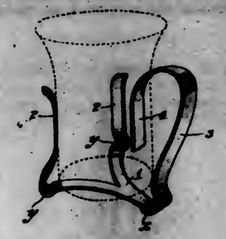


An embroidery frame comprising a pair of fixed parallel rails, straps connecting said rails, a bar extending between said straps and secured thereto to be adjustable therealong, and fabric holding devices mounted on one of said rails and said bar, said fabric holding devices comprising an elongated clip member having one edge extending backwardly over the body thereof, a flat bar adapted to be inserted under the said backwardly extending edge, a tubular rubber covering for said last mentioned bar, the said last mentioned bar being longer than the said strip and cover to cause the ends thereof to project therebeyond, and hinged latches mounted on the first mentioned bar and adapted to engage the projecting ends of the second mentioned bar, for the purpose set forth.

1,397,323. GLASS-HOLDER. ROBERT G. MITCHELL, Mount Vernon, N. Y. Filed Apr. 27, 1921. Serial No. 464,984. 9 Claims. (Cl. 65—61.)

1. A cup holder comprising a base, two upwardly-projecting arms at the forward part of said base arranged to engage the forward side of a cup, a third arm arranged to engage the rear side of a cup, said third arm overlapping the first-mentioned arms, and A support for said third arm

extending upwardly from said base, said third arm being located between said support and said first-mentioned



arms, the lower part of said third arm being free to flex to and fro.

1,397,324. EARTH-BORING MACHINE. WILLIAM E. MOORE, Chicago, Ill., assignor, by mesne assignments, to International Earth-Boring Machine Corporation, a Corporation of Delaware. Filed Apr. 28, 1919. Serial No. 292,183. 19 Claims. (Cl. 255—22.)



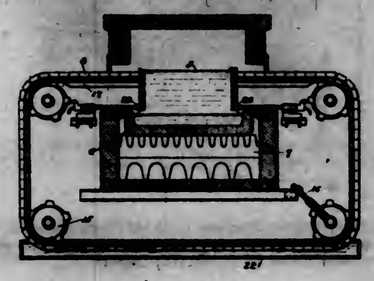
1. An earth boring machine comprising an earth boring mechanism, a turntable carrying said mechanism, a vehicle upon which said turntable is mounted, and a motor mounted upon said vehicle independently of said turntable and operable to drive both the vehicle and said mechanism.

1,397,325. STEAM OR HOT-WATER RADIATOR. THOMAS E. MURRAY, Brooklyn, N. Y. Filed Feb. 4, 1920. Serial No. 356,249. 4 Claims. (Cl. 257—139.)



3. A radiator unit, comprising a plurality of parallel vertical ducts of sheet steel, and a horizontal supporting tube therefor; the said tube being made in two longitudinal half-sections electrically welded together, one of which half sections is integral with said vertical ducts, and the other of copper.

1,397,326. SHEET-GLASS-FORMING APPARATUS. MICHAEL J. OWENS, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed June 27, 1917. Serial No. 177,181. 26 Claims. (Cl. 49—17.)



18. In a sheet glass drawing apparatus, a receptacle for molten metal, a sheet drawing means, and an intermediate sheet bending device having a non-glass destroying face running in contact with the glass at a point distant from the point of formation, the surface of the glass being free from contact with any solid substance until a surface glaze has formed thereon, the movement of said face being different from that of the glass in contact therewith.

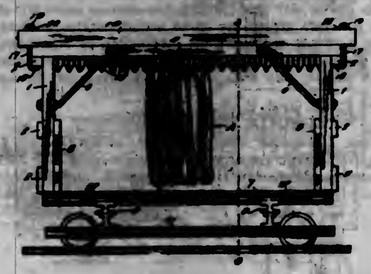
1,397,327. MAP-CASE. JOHN F. PILGRIM and WILLIAM A. NIMMER, Two Rivers, Wis. Filed Apr. 7, 1921. Serial No. 459,364. 2 Claims. (Cl. 40—84.)



1. A device of the class described comprising a rectangular casing having a hinged bottom, roller supporting heads having end spindles journaled in the sides of the casing, a plurality of equally spaced spring rollers rotatably mounted near the peripheral edge of said head within said casing, a ratchet on one of said heads and spring controlled locking means attached to the casing coöperating with said ratchet to prevent rotation of the heads when moved to a selective position.

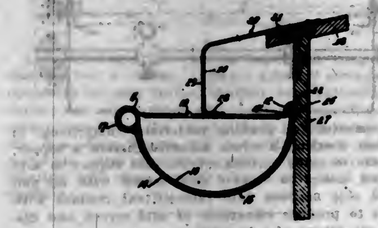
1,397,328. PORTABLE VENEER-RACK. ROBERT T. QUICK, Pamplico, S. C. Filed May 8, 1920. Serial No. 379,868. 4 Claims. (Cl. 94—26.)

1. In a rack of the class described a rectangular frame, the frame having notched members for securely mounting the rack on a truck, means extending longitudinally of the top of the frame for holding a series of pins, and a plurality of series of pins, the pins being arranged in transversely slanted relation, each of the pins having a slot shaped to readily receive the edges of stripe of veneer, and



each of the pins having means for reinforcing same against splitting, said means being disposed in proximity to the upper end of the notches, substantially as set forth.

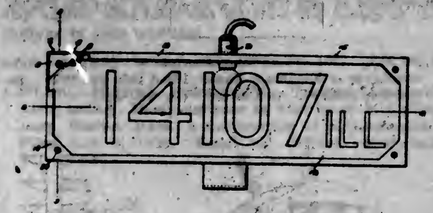
1,397,329. GUTTER-HANGER. MAX RACHLIN, New York, N. Y., assignor to Patented Metalware Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 20, 1920. Serial No. 425,424. 2 Claims. (Cl. 108—29.)



1. A gutter-hanger comprising a strap of metal surrounding transversely the gutter, and a bracket attached to said strap, said strap including a curved gutter embracing portion having a hook-shaped section on one of its ends fitting over the bead of the gutter, the opposite end of said curved portion being bent back upon itself and extending downwardly into the gutter, the bight of said bent portion being provided with a transverse slot, said hook-shaped section extending into the gutter and merging into a horizontally extending transverse bar having a flat upwardly projecting end located between the inner face of the gutter and the downwardly extending portion of said bend, said flat portion projecting through said slot and being then bent outward substantially horizontally against said bight, said bracket being attached centrally to said bar.

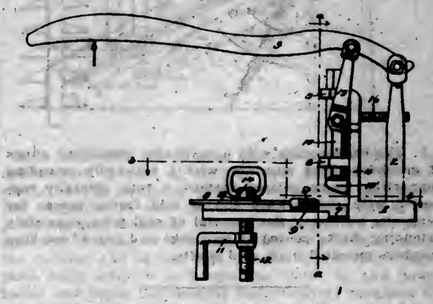
1,397,330. TAIL-LIGHT AND LICENSE-TAG HOLDER. CHRISTOPHER RINGHAM and WALTER H. KLINGBERG, Albert Lea, Minn. Filed July 16, 1921. Serial No. 485,266. 1 Claim. (Cl. 40—132.)

A device of the class described including a housing having a light chamber with an opening in one wall thereof, a laterally and inwardly extending flange surrounding said opening and having attaching plates arranged at intervals around said opening with threaded apertures in said plates, a closure frame adapted to fit over said opening and having an inturned laterally extending flange arranged parallel with the flange of the housing when in operative position, coöperating attaching plates carried by said frame positioned to register with the plates on said



housing, both sets of plates having registering apertures, and superposed license protecting plates shaped to fit between the flanges of the housing and the frame.

1,397,331. SAW-SET. KALLE RINNE, Norwood, Mass. Filed Oct. 2, 1920. Serial No. 414,267. 1 Claim. (Cl. 76—68.)



A saw setting device comprising a base plate having a pair of spaced, vertical standards, a lever pivoted to one of said standards, a setting plunger having a flat projecting end and links connecting said plunger to the lever, guides on the second standard for said plunger, an apertured bottom plate disposed on the base plate beneath the plunger, a horizontally adjustable saw retaining plate superposed on the apertured plate whereby the teeth of a saw may be engaged by the projecting end of the plunger operable through the aperture in the bottom plate and means for clamping said base plate and superposed plates to a support.

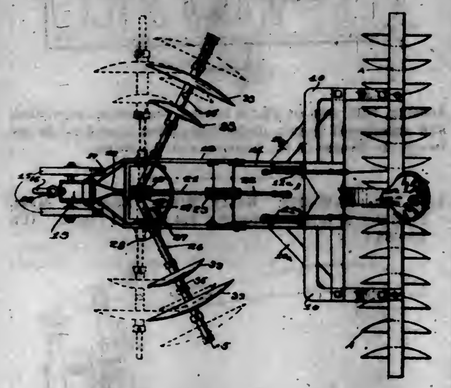
1,397,332. HAIR-MARCELING APPARATUS. THOMAS C. RUSSELL, Chicago, Ill. Filed June 22, 1921. Serial No. 479,522. 10 Claims. (Cl. 132—31.)



1. In marceling apparatus, the combination of a clamping structure and a heating structure, said structures being entirely separable, said clamping structure comprising upper and lower jaw members hinged together at one end, said lower jaw member being in the form of a plate, the upper jaw member comprising two side arms having teeth at their lower edges for coöperating with the lower jaw arm to form hair inclosing passageways when said

jaw members are brought together, said heating structure forming a heating end adapted to be applied on said lower jaw member and between said comb sides to heat the hair distributed on said lower jaw member by said comb teeth.

1,397,333. CULTIVATOR. DANIEL W. SCHMITT, Reno county, near Kingman, Kans. Filed Dec. 24, 1920. Serial No. 432,997. 10 Claims. (Cl. 55—83.)



1. The combination with a cultivator embodying gangs of ground-working members, with a forwardly extending supporting frame secured thereto, a yoke pivotally connected with the forward end of said frame, means for vertically adjusting the free end of said yoke, oppositely extending shafts carried by said yoke and ground working members mounted upon said shafts.

1,397,334. PISTON-RING. ADOLPH G. SCHMELZBERGER, St. Louis, Mo. Filed Dec. 8, 1920. Serial No. 429,096. 3 Claims. (Cl. 74—109.)



1. A piston ring having its minimum radial thickness at points substantially 45 degrees on each side of the joint and having its top and bottom faces unreduced at said points, to afford flexibility at said points while maintaining radial width of top and bottom faces for side bearing in the grooves of a piston.

1,397,335. MOTOR-CONTROL SYSTEM. LEIGH J. STEPHENSON, Chicago, Ill., assignor to William T. Fenton, Benjamin V. Becker, Lynn A. Williams, George B. Burrage, and Leigh J. Stephenson, trustees, Chicago, Ill. Filed Nov. 26, 1919. Serial No. 341,264. 22 Claims. (Cl. 172—179.)

4. The combination with a vehicle provided with a pair of motors of a plurality of electrically operated switches for connecting said motors in different relations, a main controller for controlling the operation of said switches, a motor controller for facilitating the operation of said main controller, and circuits controlled by the current flowing



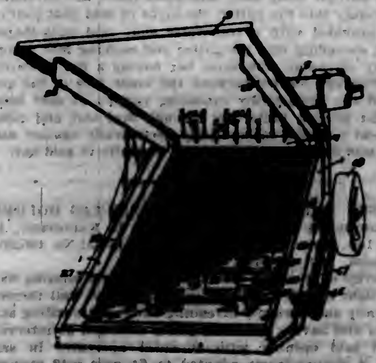
through said motors and the voltage of one of said motors for controlling the subsequent operation of said main controller.

1,397,336. SEPARATOR. THOMAS L. STURTEVANT, Quincy, and THOMAS J. STURTEVANT, Wellesley, Mass., and LAURENCE H. STURTEVANT, Temple, N. H., assignors to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed July 29, 1919. Serial No. 314,650. 7 Claims. (Cl. 83—36.)



1. A separator for grading materials, comprising, in combination, a casing, a screen mounted therein, a hopper, a feed plate to guide materials from said hopper to said screen, and means to vibrate said screen with up and down and side motions into intermittent contact with said plate to produce vibrations of said screen and distributing vibrations of said plate.

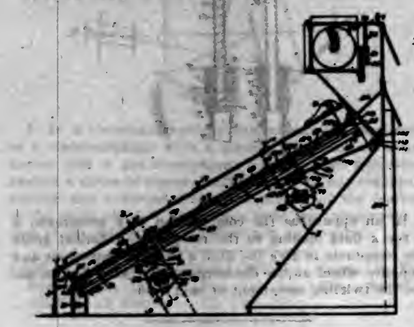
1,397,337. SEPARATOR. THOMAS L. STURTEVANT, Quincy, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 5, 1920. Serial No. 349,497. 37 Claims. (Cl. 83—36.)



1. A separator for grading materials, comprising, in combination, a frame, screen clothing carried by the frame,

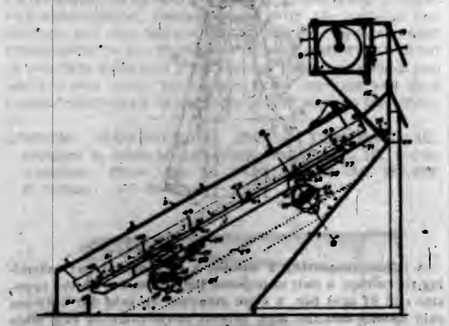
a flexible reticulated fabric supported by the frame in spaced relation by the herein clothing for permitting separate vibrations of the screen clothing and reticulated fabric, and vibrating mechanism for imparting to the frame vigorous movements which cause the screen clothing and reticulated fabric to be vigorously vibrated with an amplitude to cause the vibrations of the two to be transmitted from one to the other for keeping the meshes of the screen clothing in open and cleared condition.

1,397,338. SCREEN-SEPARATOR. THOMAS J. STURTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed June 12, 1920. Serial No. 388,461. 17 Claims. (Cl. 83—36.)



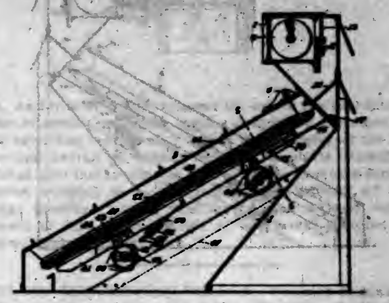
1. A separator for grading materials, comprising, in combination, a casing, a frame therein, screen clothing connected to said frame, channel bars extending transversely of said frame and having depending flanges, rollers secured to the channel bars in the space between the depending flanges for protection from the falling materials, cams supporting said rollers, and shafts for rotating said cams, thereby to vibrate said frame and clothing.

1,397,339. SCREEN-SEPARATOR. THOMAS L. STURTEVANT, Quincy, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed July 22, 1920. Serial No. 396,245. 12 Claims. (Cl. 83—56.)



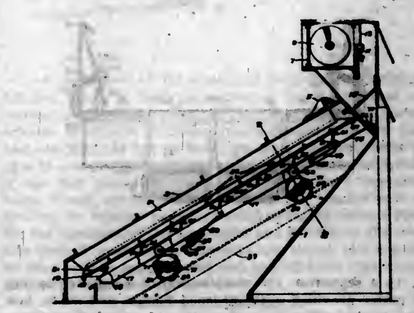
1. A separator for grading materials, comprising, in combination, a frame including channels and transverse members connected to said channels, a table of sheet material mounted on said frame having a multiplicity of perforations therein with strengthening flanges depending from said perforations, side plates secured to said table, a screen secured to said side plates and having clothing resting on said apertured table, and means operating through said frame and table for causing the clothing to slap against said table and maintain the meshes of the clothing in open condition.

1,397,340. SCREEN-SEPARATOR. THOMAS L. STURTEVANT, Quincy, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 6, 1920. Serial No. 401,601. 8 Claims. (Cl. 83—56.)



1. A separator for grading materials, comprising, in combination, a pair of shafts, cams mounted on said shafts having peripheral projections, a frame resting on and supported by said cams, screen clothing having opposed margins connected to said frame and free end margins, and a series of vibratory members extending along the clothing and having ends secured to said frame, said cams being adapted to jounce the frame up and down bodily and cause the clothing and vibratory members to slap vigorously up and down against each other with a pronounced amplitude of movement.

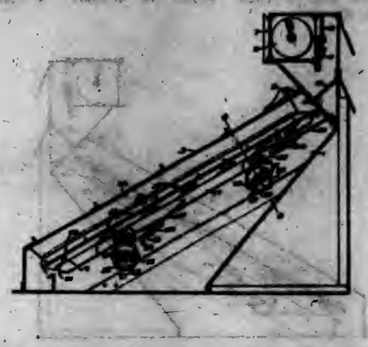
1,397,341. SCREEN-SEPARATOR. THOMAS L. STURTEVANT, Quincy, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 27, 1920. Serial No. 406,380. 19 Claims. (Cl. 83—56.)



1. A screen for separators, comprising, in combination, a frame having upstanding side plates provided with inturned flanges and seats, jaw plates having edges in said seats and gripping portions coöperating with said inturned flanges, screen clothing having margins between said flanges and gripping portions, and means to force the jaw

plates toward the side plates to grip the clothing, said cents forming abutments to hold the jaw plates from displacement laterally as they are forced into gripping engagement with the clothing.

1,397,842. SCREEN-SEPARATOR. THOMAS LINCOLN STURTEVANT, Quincy, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 3, 1920. Serial No. 406,068. 14 Claims. (Cl. 83—56.)



1. In a separator for grading materials, the combination of a supporting frame having side plates, holding plates connected to said side plates, and adjustable relative to the side plates, screen clothing having side bars located between said side plates and holding plates and engaging the latter at points between said plates, and bolts for adjusting the holding plates toward the side plates in a direction in which the plane of the clothing extends to exert a stretching force upon the clothing and to hold the clothing properly positioned.

1,397,843. SCREEN-SEPARATOR. THOMAS L. STURTEVANT, Quincy, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 1, 1920. Serial No. 420,915. 10 Claims. (Cl. 83—56.)



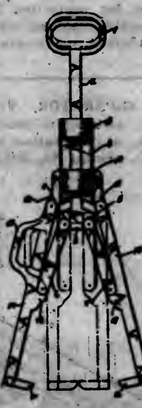
1. In a separator, the combination of a support having side plates provided with inturned flanges and seats, jaw plates having edges in said seats and gripping portions, screen clothing having margins between said inturned flanges and gripping portions, bolts having portions projecting rigidly from the side plates and inclined with respect to said flanges automatically to exert a pulling force upon the jaw plates in an inclined direction toward said flanges to press the gripping portions of the plates against the flanges when the nuts of the bolts are tightened.

1,397,844. SOAP-DISPENSING APPARATUS. ROBERT SWINBURN, New York, N. Y. Filed Jan. 14, 1918. Serial No. 211,744. 4 Claims. (Cl. 137—70.)



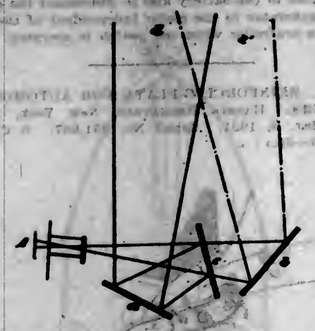
4. In an apparatus the combination of a receptacle, a pipe for a fluid leading to the receptacle, a helical guide in the receptacle to give the fluid a twirling movement and a propeller wheel at the discharge end of said pipe to enhance the twirling movement of said fluid.

1,397,845. UTENSIL IMPLEMENT. FRANK SEMYD, Waltersburg, Pa. Filed Aug. 6, 1920. Serial No. 401,606. 1 Claim. (Cl. 294—115.)



A lifter comprising a handle, a rectangular bar extending therefrom, a pair of opposed lugs formed with the opposite end of said bar, a slide mounted on said bar between said handle and the lugs, lateral projections on said slide in register with said lugs, arms pivoted to said projections, clamp members at the free ends of said arms, projections on the adjacent sides of said arms, links pivoted at their respective ends to said lugs and the arm projections and a handle grip formed with one of said arms whereby they may be actuated.

1,397,846. CINEMATOGRAPHIC ARRANGEMENT. EUGEN WOLFF, Temmelhof, near Berlin, Germany. Filed June 26, 1920. Serial No. 392,668. 2 Claims. (Cl. 88—24.)



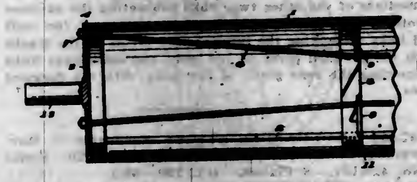
1. In a cinematographic arrangement, the combination of a cinematograph with a screen, consisting of a transparent and a non-transparent portion, and reflectors to project a series of representations onto the non-transparent portion and a second series, the reverse of the former as to the right and left hand sides, onto the transparent portion of the said screen, substantially as set forth.

1,397,847. THRESHING-MACHINE. FRANK J. WOOD, Des Moines, Iowa. Filed Oct. 24, 1919. Serial No. 333,081. 2 Claims. (Cl. 130—26.)



1. In a threshing machine of the class having a cylinder and concave which in operation throw the straw and kernels upwardly and rearwardly, a device for separating the kernels from the straw while they are in the air and during said upward and rearward movement, said device comprising a frame arranged substantially tangential to the delivery end of the concave, and a series of deflector plates supported in said frame, said plates being in direct and uninterrupted communication with the cylinder and concave, and also being widely spaced apart and arranged transversely in the frame and at such angles from front to rear that kernels of grain thrown from the cylinder and concave will strike upon their under surfaces and then rebound rearwardly through the spaces between the plates.

1,397,848. IRONING-ROLL. EDGAR L. YORK, Peoria, Ill., assignor to Oasis Manufacturing Co., Peoria, Ill., a Corporation. Filed May 19, 1920. Serial No. 382,576. 6 Claims. (Cl. 68—9.)



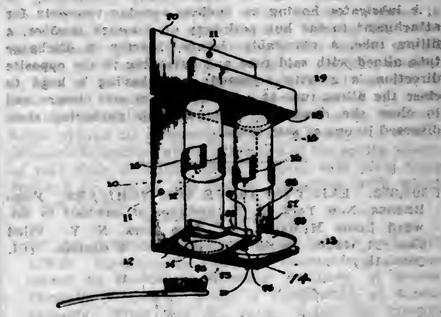
1. In an ironing roll the combination of a cylinder, a ring therein, an end member in each end of the cylinder and truss rods passing through each member relatively near the periphery thereof and having contact with the ring relatively near the center thereof.

1,397,849. AUXILIARY AIR-INTAKE FOR INTERNAL-COMBUSTION ENGINES. JAMES BACON, Los Angeles, Calif. Filed Aug. 30, 1920. Serial No. 406,767. 4 Claims. (Cl. 137—152.)



1. An air inlet device, adapted for use in the fuel intake of an internal combustion engine, comprising a perforated tube extending transversely across the diameter of the intake and having an outside air inlet, a pintle extending through said intake parallel with said tube having a screen thereon adapted to be actuated by the velocity of the charge passing through said intake, and a lever valve secured to said pintle outside of the intake adapted to control said air inlet.

1,397,850. TOOTHBRUSH-HOLDER. CHARLIE BRACKETT BAKER, Amory, Miss. Filed Mar. 16, 1921. Serial No. 452,701. 2 Claims. (Cl. 248—63.)

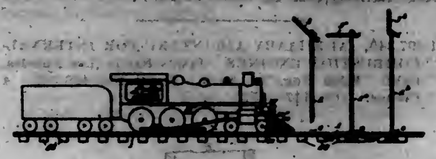


1. A receptacle of the character described comprising a bracket plate, a foot plate carried by the bracket and having openings therein, a top plate carried by the bracket, tubular containers of glass supported upon said foot plate and abutting the top plate at its upper end, the lower end of said receptacles being open and alined with the opening of the foot plate and the upper ends of said receptacles being closed, spring clips carried by the bracket and embracing the tubular receptacles and swinging closure plates for the openings of the foot plate and pivoted to the under side thereof, said closure plates having thumb pieces whereby they may be manipulated and having limit lugs engageable with the foot plate.

1,397,851. ELECTRIC TRAIN-SIGNAL. GARRETT J. BARRY, Sandusky, Ohio. Filed June 12, 1919. Serial No. 303,681. 9 Claims. (Cl. 246—192.)

4. The combination, with a locomotive, of a receptacle having a pipe leading therefrom adapted to be connected with the air brake line, a plunger having a port therein and adapted by its movement in one direction to relieve the

pressure within said receptacle and direct the discharge against the operator, means for automatically locking the



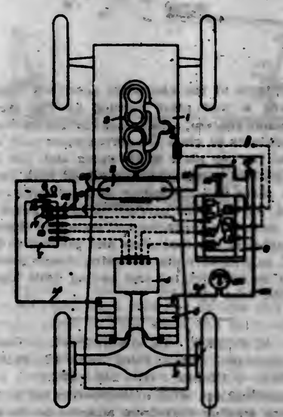
said plunger in its pressure-relieving position, a block signal, and means operative by the setting of said signal to move said plunger to its pressure-relieving position.

1,397,352. AXLE-LUBRICATOR. THOMAS G. BASS, Spur, Tex. Filed Aug. 22, 1917. Serial No. 187,675. 1 Claim. (Cl. 64—26.)



A lubricator having an endless annular reservoir for attachment to the hub periphery of a rotary member, a filling tube, a removable closure therefor, a discharge tube alined with said tube and extending in the opposite direction, a gravity actuated valve having a head to close the filling tube at a distance from said closure and to close the discharge tube; and an anchoring stem disposed in one of said tubes.

1,397,353. ELECTRIC DRIVE FOR VEHICLES. FRED BERGER, New York, N. Y., assignor of one-half to Edward Louis McManus, Jr., New York, N. Y. Filed Dec. 21, 1920. Serial No. 432,296. 6 Claims. (Cl. 290—10.)



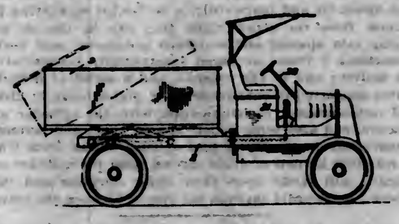
1. A propelling system for vehicles, which comprises a generator, a motor connected to the vehicle for driving the same, a battery and circuits adapted to be established therebetween, a controller operable to selectively establish said circuits, and a switch having a neutral position and adapted when actuated to establish a circuit from the generator to the battery and to disconnect the circuit from the generator to the motor independent of the position of the controller when the switch is operated.

1,397,354. REINFORCING-PLATE FOR AUTOMOBILE-BUMPERS. HARRIS DORENSTEIN, New York, N. Y. Filed Mar. 9, 1921. Serial No. 451,037. 5 Claims. (Cl. 293—55.)



2. The combination with an automobile frame member and a bumper plate having an end portion adapted to lie along and be connected to the frame member, of a channel reinforcing plate adapted to be disposed along the outer face of the end portion of said bumper plate, said channel plate having a curvature corresponding to the curvature of the end of the bumper plate, and means for clamping the bumper plate between the reinforcing plate and the frame member.

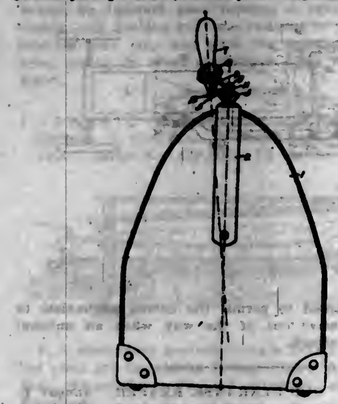
1,397,355. DUMPING-WAGON. DANIEL BIRSTLER, Westchester, N. Y. Filed Dec. 30, 1918. Serial No. 268,922. 3 Claims. (Cl. 298—11.)



1. In a wagon of the class described, a chassis with tracks, a body with three pivots, two sets of movable pivots in said tracks and one set of movable pivots intermediate of the other two, links connecting the extreme pivots of the tracks with the center pivot of the body and links connecting the intermediate pivots of the tracks with the forward pivot of the body and additional links connecting the rear pivot of the body with the forward links.

1,397,356. BAG-HANDLE HINGE. FREDERICK C. BOTWRIGHT, Philadelphia, Pa. Filed Nov. 24, 1920. Serial No. 426,157. 3 Claims. (Cl. 190—57.)

8. In combination with a handle, and a bag to be supported therefrom, of adjustable means connecting the handle and the bag adapted to be adjusted rigidly in a plurality of positions, whereby the bag may be supported



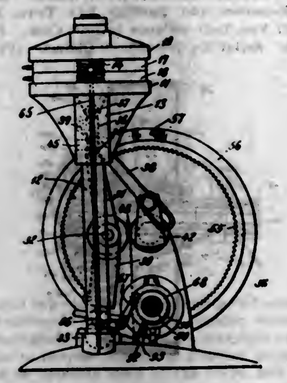
in an offset position on either side of the line of support from the handle.

1,397,357. CUTTING-TOOL. WILHELM B. BRONANDER, Montclair, N. J. Filed Apr. 5, 1919. Serial No. 287,761. 1 Claim. (Cl. 29—96.)



A cutting tool comprising a bit of triangular cross-section, a holder therefor constructed with a V-groove, adapted to receive the bit, the surfaces of said groove diverging at a less angle than do the surfaces of the bit, a support for the lower end of the bit, and a clamp for forcing the bit into said groove.

1,397,358. DIE-PRESS. WILHELM B. BRONANDER, Montclair, N. J. Filed Mar. 4, 1920. Serial No. 363,130. 49 Claims. (Cl. 18—5.3.)



1. The combination with a press having a movable press element, of a double-jointed toggle supported at

one end and connected with the movable press element at its opposite end, means for operating one of the joints of said toggle with a relatively quick movement and means for operating the other joint of the toggle with a slower movement.

1,397,359. RESILIENT TIRE. ELIJAH B. BROOKSHIRE, Eldorado, Kans. Filed Sept. 23, 1920. Serial No. 412,113. 2 Claims. (Cl. 152—6.)



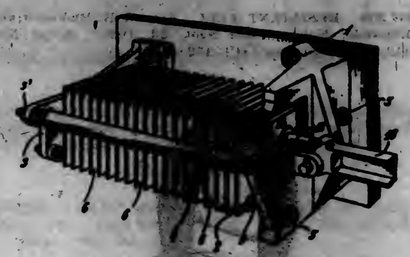
1. A resilient tire comprising a one-piece solid rubber casing having an annular straight walled channel opening through the inner face thereof and having a plurality of peripherally spaced seats at the bottom thereof, a plurality of radially disposed coiled springs mounted in said channel, resilient balls disposed between the outer ends of said springs and the seats at the bottom of said channel, said springs each having an annular member at each of its ends, the annular member at one end of each spring being designed to encircle one of the balls and hold it seated, a disk-like plate having an inturned flange around its perimeter to form a pocket to receive the annular member at the other end of the spring whereby said plate is carried by said spring said plate being designed to rest on the rim in connection with which the tire is used.

1,397,360. METHOD OF MAKING HANDLES AND THE LIKE. HJALMAR G. CARLSON, Worcester, Mass., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 22, 1919. Serial No. 339,990. 9 Claims. (Cl. 76—101.)



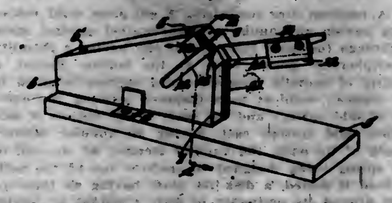
1. A method of producing an article from sheet metal which comprises drawing out a flat blank of sheet metal to a general cylindrical shape having a convex closed end and an open end, thickening the walls of the metal at or near the closed end, and then reducing the diameter of the blank from the thickened portion to the open end by a drawing operation.

1,397,361. PRESSURE VARIABLE RESISTANCE. ALEXANDER CHURCHWARD, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc., a Corporation of New York. Filed May 7, 1920. Serial No. 379,431. 20 Claims. (Cl. 219—76.)



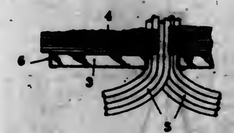
2. A resistance element for electric pile rheostats comprising a metallic radiating plate, said radiating plate having a block of resistance material extending through a perforation therein and readily detachable therefrom.

1,397,362. LASHING-CUTTER. PETER J. CLARKE and MICHAEL J. CLARKE, Chicago, Ill. Filed Aug. 28, 1919. Serial No. 320,474. 4 Claims. (Cl. 30—14.)



4. In combination with a lashing cutter having a pivotally mounted spring-actuated lever; a cutting element detachably mounted on the forward end of said lever and extending laterally therefrom; and a pivotally mounted lever having its forward end bent at right angles adapted to engage said spring-actuated lever retaining the same in elevated position, substantially as described.

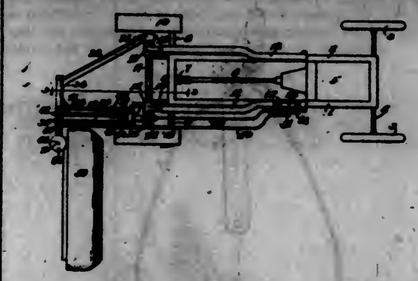
1,397,363. INSULATING END PLATE. LOVELL B. COLE, St. Louis, Mo., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Dec. 4, 1920. Serial No. 428,409. 4 Claims. (Cl. 171—206.)



1. An insulating plate adapted to be positioned at the end of a slotted core structure of electrical machinery and comprising a sheet of insulating material having teeth and winding slots and a sheet of reinforcing material provided with teeth facing and connected with the teeth of the insulating material.

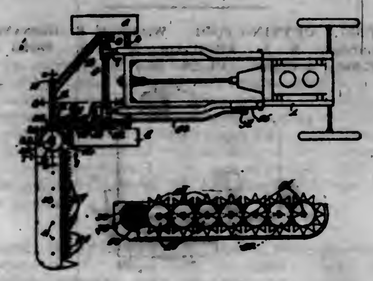
1,397,364. CHAIN-CUTTER FOR REAPERS. ALBERT E. COOK, Evanston, Ill. Filed Dec. 12, 1917. Serial No. 206,732. 10 Claims. (Cl. 56—25.)

10. The combination with a reaper frame of a vertical shaft supported thereon, a cutter mechanism adjustably supported on said vertical shaft, and a spring controlled mechanism supported on said shaft and on said cutter



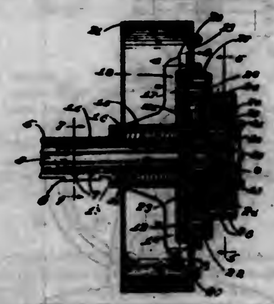
mechanism adapted to permit the cutter mechanism to automatically move out of the way when an unusual obstruction is struck.

1,397,365. CIRCULAR-DISK REAPER. ALBERT E. COOK, Evanston, Ill. Filed Dec. 12, 1917. Serial No. 206,733. 3 Claims. (Cl. 56—25.)



1. In a device of the class described, the combination with a vehicle, of a cutting unit adjustably attached to the vehicle, drive wheels forming part of the cutting unit and supporting the rear end of the vehicle, a plurality of cutting disks, gears associated therewith, and means connecting said drive wheels with said gears for rotatably driving said cutting disks in either direction.

1,397,366. SPEED-REDUCTION WHEEL. ALBERT E. COOK, Evanston, and THOMAS VAN TUYL, Kankakee, Ill.; said Van Tuyl assignor to said Cook. Filed June 14, 1918. Serial No. 240,096. 9 Claims. (Cl. 74—34.)



1. A tractor wheel comprising a hub, clutch means formed thereon, a drum casing rotatably mounted upon

said hub, a rim secured thereto, an internal gear ring in said drum casing, held against rotation by said clutch means, an internal gear forming a part of said drum casing, and floating gear mechanisms in mesh with said internal gear ring and with the internal gear of said drum casing to effect a changed drive for said tractor wheel.

1,397,367. CONTINUOUS HEATING-FURNACE. THOMAS J. COSTELLO, Warren, Ohio. Filed Oct. 30, 1920. Serial No. 420,594. 12 Claims. (Cl. 263—6.)



1. A continuous heating furnace having a skid or bearing piece for the blanks formed with a downward curvature intermediate its end portions, substantially as described.

1,397,368. ROPE CONVEYER. ALPHONSE DEBUNCE, Paris, France, assignor to Societe Anonyme Ateliers Otis-Pifre, Paris, France. Filed May 15, 1920. Serial No. 381,722. 12 Claims. (Cl. 104—112.)



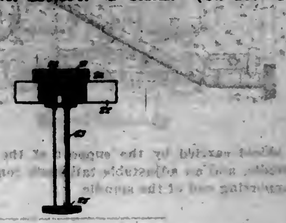
6. In a wire rope system, supports, articulations on these supports, levers rocking on these articulations, lengths of cable connecting these levers, a carriage running on these lengths of cable, a second cable, levers carrying this second cable, and rocking on ball joints carried by the supports.

1,397,369. HANDBAG. MORRIS DIAMOND, Caldwell, N. J. Filed Apr. 27, 1921. Serial No. 464,813. 3 Claims. (Cl. 150—34.)



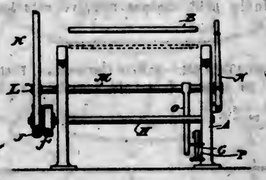
3. A hand bag comprising a plurality of frames hingedly secured together, a body-forming member secured to said frames throughout a portion of its marginal edge in such manner as to provide oppositely disposed looped portions arranged on opposite sides of the frame and a separate lining member secured to said frames throughout their marginal edge, and secured to the body-forming member throughout the marginal edge of the oppositely disposed looped portions whereby a plurality of compartments are formed to which access may be had through the frames and a compartment formed in each of the looped portions upon opposite sides thereof.

1,397,370. COUPLING. WILLIAM J. DRUCKER, Woodhaven, N. Y., assignor, by mesne assignments, to National Mayonnaise Machine Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Oct. 12, 1918. Serial No. 257,856. 1 Claim. (Cl. 287—1.)



The combination of a stationary support having a depending member provided with a horizontal threaded aperture and with pins propecting from one face thereof, a rigid member to be supported from the depending member of the support, provided with an opening registering with the opening of the depending member and with recesses at the sides of the opening and into which extend the pins of the said depending member, and a headed pin having one end screw threaded provided with a flange intermediate of its length, said pin passing loosely through the opening of the member to be supported with its flange resting against said member and screwed into the opening of the depending member.

1,397,371. SAFETY ATTACHMENT. EUNICE C. ETCHISON, Fairfax, Ala. Filed Oct. 8, 1920. Serial No. 415,530. 2 Claims. (Cl. 192—116.)

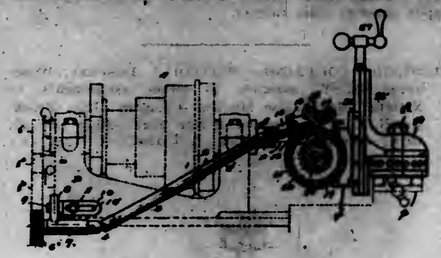


1. In an attachment of the character described, the combination with the belt shifting mechanism and the table operating pedal, of means operating in conjunction with said shifting mechanism for locking the same when the table is lowered.

1,397,372. GEAR-CUTTING MACHINE. ROBERT E. GARRETT, Nashville, Tenn. Filed May 10, 1917. Serial No. 167,681. 2 Claims. (Cl. 90—1.)

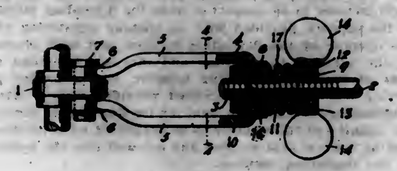
1. In a machine of the class described, the combination with a cutter operating shaft, a cutter on said shaft and a work operating shaft associated with the cutter shaft, of an interposed obliquely arranged jointed shaft, said shaft being telescopic and universally jointed, an extension to the upper end of said obliquely arranged shaft, a worm screw fixed on said extension, a bearing sleeve for

said extension, said bearing above forming a journal bearing for said extension and a housing for the worm sector,



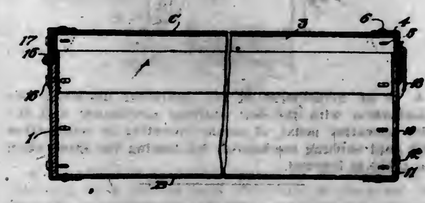
a shield carried by the support of the bearing sleeve, a spindle, and an adjustable tail-stock confronting the work supporting end of the spindle.

1,397,373. AUTOMOBILE-BRAKE ADJUSTER. GEORGE A. GEMMER, Newark, N. J. Filed Nov. 24, 1920. Serial No. 426,141. 14 Claims. (Cl. 85—36.5.)



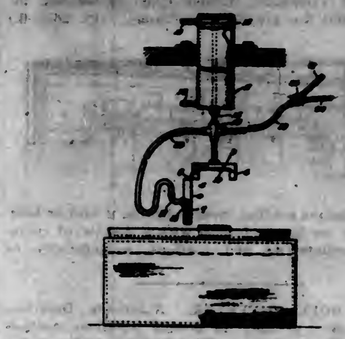
1. In mechanism of the character described, the combination of a member adapted to be connected to a mechanical element, a second member having a swivel connection with said first-mentioned member and adapted to be connected to another mechanical element, said members being yieldingly held against relative rotation in either direction.

1,397,374. SUITCASE. SIMON GROSSMAN, Pittsburgh, Pa. Filed Apr. 29, 1920. Serial No. 377,596. 3 Claims. (Cl. 190—54.)



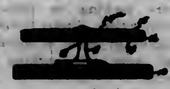
3. In a suit case, the combination with the cover and body of the case and the metal binders for the meeting edges of said cover and body, of metal corner pieces fitting the corners of the cover fastenings securing the corner pieces and metal binders, corner braces fitting the corners of the body, fastenings securing said corner braces and metal binders, corner pieces fitting the corners of said body, and fastenings passing through the corner pieces and corner braces, thus providing separate corner pieces for the cover and body and intermediate braces for the corner of the body.

1,397,375. MOLDING DEVICE. BERTRAND B. GRUNWALD, Seattle, Wash. Filed Apr. 20, 1920. Serial No. 375,277. 6 Claims. (Cl. 92—57.)



1. A molding apparatus including a material vat, a mold, means for raising and lowering the mold with respect to the material in the vat, and means for evenly filling the mold when beneath the material, and means on the vat for trimming the material at the ends of the mold in the withdrawing movement of the mold.

1,397,376. BUTTON-FASTENER. NATHAN GURWITSCH, Weidling, near Klosterneuburg, Austria. Filed June 1, 1921. Serial No. 476,600. 3 Claims. (Cl. 24—110.)

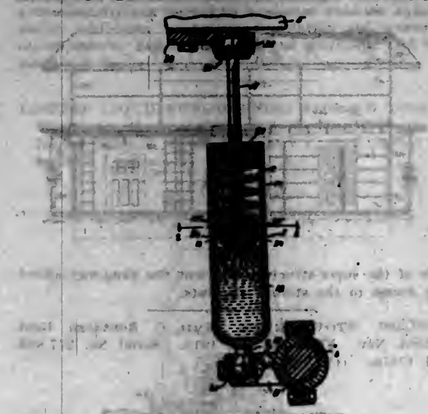


1. A fastener adapted to engage the shank of a button head, said fastener comprising front and rear plates, one of which is formed with a longitudinal slot between the plates and with a pair of notches at a side of said slot, and a spring bent into approximately U-shape, one arm of the spring having guided movement in said slot to be moved across the center, the front plate having a hole intersecting said slot for the protrusion of the shank of the head to bring the eye of the shank into line with said spring arm, the other arm of said spring having an arched portion terminating in a laterally directed dog, said spring being accessible at the peripheries of the plates to be grasped and being slidable to engage or disengage the shank of a button head, and to engage its dog with either of said notches.

1,397,377. SHOCK-ABSORBER. GEORGE E. HARPHAM, Los Angeles, Calif. Filed Sept. 1, 1916. Serial No. 117,088. Renewed Apr. 2, 1921. Serial No. 456,067. 2 Claims. (Cl. 267—8.)

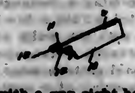
1. A shock absorber comprising a cylinder; a floating piston having a working fit in the upper portion of said cylinder and having a central aperture therethrough; a check valve piston below said floating piston having a loose fit in the lower portion of said cylinder; check valves in said last piston; a stem secured thereto and extending upwardly through the floating piston to a point above the

cylinder; a closure for the upper end of said cylinder; a rebound spring between said closure and said floating piston;



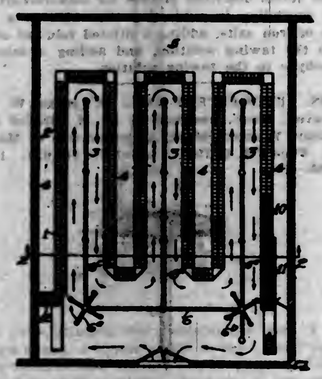
means to secure said cylinder and stem of said check valve piston to the appropriate parts of the vehicle, and liquid in said cylinder below the floating piston.

1,397,378. GUN-SIGHT. THOMAS E. JACKSON, Rogersville, Ala. Filed Dec. 27, 1919. Serial No. 347,700. 1 Claim. (Cl. 33—47.)



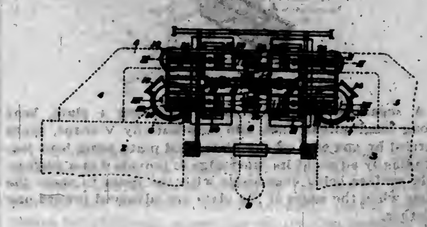
In combination with a gun sight having a sighting notch a gun sight attachment comprising a body bent upon itself to form diverging legs adapted to frictionally engage said sight and also to define a sight opening between said legs and sight, an extension formed on one end of said body and of substantially V-shape in cross section, said extension having its edges bent upwardly and outwardly to define feet adapted to rest against the walls of the notch of the gun sight.

1,397,379. SELF-SERVING STORE. FRANK E. JONES, San Diego, Calif., assignor to David B. Red, Hattiesburg, Miss. Filed Sept. 22, 1919. Serial No. 325,514. 1 Claim. (Cl. 211—8.)



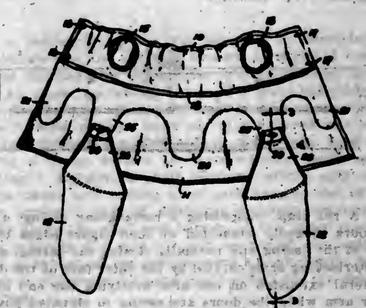
1. In a self-serve store apparatus, the combination with an inclosure of a display cabinet located within said inclosure and made up of portions arranged in a general zigzag form so as to produce a number of oppositely disposed aisles, these aisles being parallel to each other, and opening in opposite directions.

1,397,380. VALVE MECHANISM FOR REVERSING REGENERATIVE FURNACES. LUTHER L. KNOX, Bellevue, Pa. Filed Apr. 3, 1918. Serial No. 226,402. 3 Claims. (Cl. 277—6.)



1. Furnace reversing mechanism, comprising a pair of valves for controlling the flow through the air ports, a second pair of valves for controlling the flow through the gas ports, a pair of air inlet valves, and a pair of gas inlet valves, a single actuating shaft for all the valves, means for turning said shaft in both directions, a single separate actuating cable for each of said valves, said cables being all connected to said shaft at one end and to the respective valves at the opposite ends, all of said cables being connected directly to their respective valves, some rigidly and others of said cables being connected to their valves through adjustable telescopic members, whereby some of the valves will be actuated simultaneously and others thereof non-simultaneously, substantially as described.

1,397,381. INFANT'S GARMENT. SALLIE W. LAING, Shreveport, La. Filed Oct. 8, 1919. Serial No. 329,295. Renewed Oct. 6, 1921. Serial No. 505,966. 1 Claim. (Cl. 2—98.)



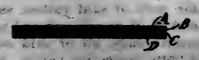
As an article of manufacture, an infant's garment, comprising an infant's waist adapted to be opened and closed at the back, the said waist being provided at the front and back with diaper tabs and at the sides with stocking supporting tabs, the tabs depending from the lower edge of the waist, and an abdominal binder attached at its upper end to the lower portion of the waist above the said tabs, the said binder extending beyond the lower edges of the said tabs and the latter overlying the binder on the outside thereof, the side edges of the binder being in alinement with the side edges of the waist, the said side edges of the waist and binder diverging in a downward direction.

1,397,382. ATTACHING MEANS FOR SEPARABLE-FASTENER ELEMENTS. Abraham Levine, Brooklyn, and Louis Opperman, New York, N. Y., assignors to Presto Metal Stamping Corporation, New York, N. Y., a Corporation of New York. Filed June 7, 1921. Serial No. 475,580. 1 Claim. (Cl. 24—227.)



A separable fastener element including a plate, bent along longitudinal lines into substantially V-shape, spurs carried by one edge of the plate, said plate being bent longitudinally adjacent its other edge to provide a cam surface, said surface being engageable with the spurs to upset the same when the edges of the plate are advanced toward one another.

1,397,383. PETROL-TANK AND THE LIKE. Allan Macbeth, Paris, France, assignor to Stè The Dunlop Rubber Co. Limited, Paris, France. Filed Aug. 22, 1918. Serial No. 251,004. 7 Claims. (Cl. 154—46.)



2. A reservoir for liquid fuel comprising a layer of non-vulcanised rubber and two layers of vulcanised rubber, said layer of non-vulcanised rubber being contained between the vulcanised layers of rubber.

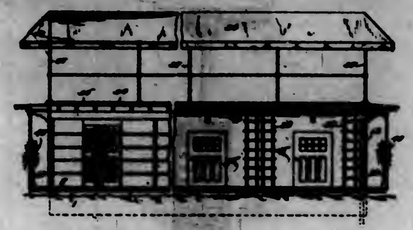
1,397,384. RAT-TRAP. Tsunetaro Nagayama, Hilo, Hawaii. Filed Aug. 12, 1920. Serial No. 402,947. 2 Claims. (Cl. 43—61.)



1. A rat trap, comprising a rectangular casing, a pair of doors hingedly connected at their upper edges to the ends of the casing and normally closing the casing, a pair of interlocking arms carried by the outer face of the doors, a lateral extension on one arm overlying the end of the other arm when the doors are swung to elevated position and extending beyond the edge of the casing, a flexible device depending from the projecting end of the extension, a trip plate carried by the flexible device, means frictionally engageable with the trip plate for holding the doors in elevated position, and means whereby the weight of an animal in the trap releases said last mentioned means.

1,397,385. FLOATING STORAGE-PORT. George K. Reiser, Harrisburg, Pa. Filed Jan. 21, 1920. Serial No. 353,060. 4 Claims. (Cl. 114—0.5.)

1. A floating storage port comprising a floatable substructure, a super-structure thereon, inset from a side edge of the substructure to provide a gang-way, storage elements extending from one side of the superstructure to the other and arranged in parallel relation, and ports in the



side of the super-structure adjacent the gang-way affording access to the storage elements.

1,397,386. STOVE-GRATE. Emil G. Rosseler, Goldfield, Nev. Filed Feb. 18, 1919. Serial No. 277,803. 1 Claim. (Cl. 126—163.)



A stove grate comprising a rectangular grate member adapted to be supported within a fire box with its outer edges in engagement with the walls of the fire box and having a centrally arranged rectangular opening with recesses at its corners, said grate member having draft openings, a second grate member of a semi-elliptical shape in vertical cross section resting on the first grate member with its walls spaced from the walls of the fire box and disposed over the rectangular opening and provided with a plurality of draft perforations disposed radially of the center line of the base of said second grate member, and lugs formed on the second grate member and received by the recesses to prevent relative movement of the first and second grate members.

1,397,387. PROCESS FOR THE MANUFACTURE OF IRON-LEATHER. Otto Röhm, Darmstadt, Germany. Filed July 9, 1920. Serial No. 395,146. 5 Claims. (Cl. 149—5.)

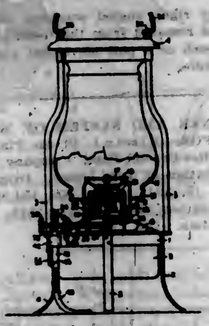
4. The herein described process for manufacturing iron leather, consisting in subjecting the skins to a tawing solution of iron salts, adding a diluted solution of water glass to the tawing solution, and adding a solution of formaldehyde to the tawing solution.

1,397,388. UPHOLSTERY-NAIL. Charles W. Torry, Fairhaven, Mass., assignor to M. M. Rhodes & Sons Company, Taunton, Mass., a Corporation of Massachusetts. Filed Feb. 9, 1921. Serial No. 443,621. 1 Claim. (Cl. 85—22.)



A device of the character stated comprising an annular body portion, a nail driven through the body portion and a sheet of material fitting over the body portion and concealing the head of the nail, said body portion including a downwardly and outwardly presented rounded annular flange, said cover including an inwardly and upwardly curved annular flange rolled over and concealing said first mentioned flange.

1,397,389. LIQUID-FUEL BURNER. Andrew O. Vestine, Watertown, Mass., assignor to L. C. Chase & Company, Boston, Mass., a Firm. Filed May 1, 1919. Serial No. 293,905. 3 Claims. (Cl. 67—78.)



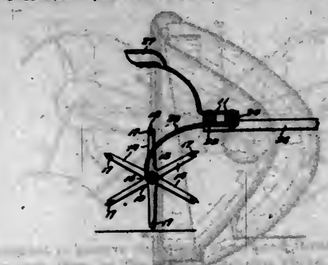
1. In a device of the class described comprising a reservoir, a wick, extinguishing means, including a wick moving means having means normally tending to depress said wick to inoperative position, means for raising said wick to burning position against the action of said depressing means, a spring actuated locking member for said wick moving means located externally of said reservoir and having a curved offset portion extending beneath the central portion of the device and normally held by the weight of said device in locking position, but adapted automatically to release said wick moving means, if the device is tilted beyond the predetermined amount in any direction.

1,397,390. VALVE-GRINDER. Carl H. Viebrock and Henry W. Viebrock, Douglas, Wash. Filed Feb. 2, 1921. Serial No. 441,880. 14 Claims. (Cl. 51—29.)



1. A valve grinding tool comprising a stem, a head including a shank, a square socket in one of said parts, and a cooperating member on the remaining part and of square form in equatorial section to conform to the socket and having its four outer surfaces coinciding with elements of a sphere.

1,397,391. CUTTER AND ROLLER. James V. Adams, Yowell, Tex. Filed Feb. 27, 1920. Serial No. 361,664. 3 Claims. (Cl. 55—61.)



1. A machine comprising a frame, a traction member mounted for rotation beneath the frame and supporting the latter, cutting blades carried by the traction member and resilient outwardly and downwardly curved bearing means for yieldingly connecting the traction members and frame.

1,397,392. COMBINED COOLER DISPLAY-CASE AND REFRIGERATOR. George C. Amend, Des Moines, Iowa. Filed July 25, 1921. Serial No. 487,333. 4 Claims. (Cl. 62—37.)

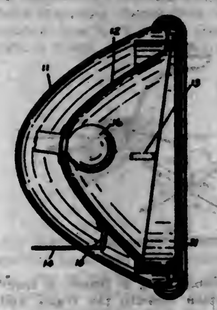


1. A refrigerator show case having a refrigerating apparatus therein and a blower element arranged at one end of the refrigerating apparatus, said case being formed with an upper, an intermediate and a lower compartment, doors for gaining access into each of said compartments, pipes forming passage ways provided between said upper and intermediate compartments at their ends, said pipes having a flange formed on their adjacent surfaces for forming a support, a shelf received within said upper compartment and resting upon said flanges, one of said pipes having a pair of discharge openings arranged at points above the shelf and bottom of the upper compartment whereby the cold air will be forced out over the shelf or bottom of the compartment a considerable length before it will descend to any great extent for the purposes specified.

1,397,393. AUTOMOBILE-HEADLIGHT APPARATUS. Samuel F. Arbuckle, Indianapolis, Ind., assignor to United States Automotive Corporation, Connersville, Ind., a Corporation of Delaware. Filed Sept. 15, 1919. Serial No. 323,774. 1 Claim. (Cl. 240—41.)

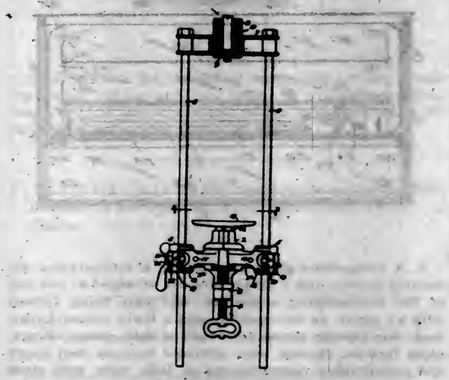
A headlight including a stationary lamp casing, a metal band secured in the front part of said lamp casing and having a pair of ribs at diametrically opposite points, one pair of ribs being below and the other pair above the central horizontal plane through the lamp casing, a reflector having an outwardly turned beaded edge, a hooked-shape hinge plate secured to said metal band on the outer surface near each pair of said ribs and turned

inward and extending into the head of the reflector between said ribs, means secured to the reflector on each



side of said hooked-shape plate for preventing any displacements of the reflector, and means for tilting the reflector substantially as set forth.

1,397,394. BOTTLE-CAPPING MACHINE. HARRY E. ASBURY, Philadelphia, Pa., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 7, 1919. Serial No. 315,855. 1 Claim. (Cl. 226—84.)



The combination in a bottle capping machine, of a base; a plunger in the base; a table carried by the plunger; a lever for raising the plunger; two rods; a crosshead carried by the rods; means for clamping a cap onto a bottle, said means being mounted in the cross head; a fixed jaw at each side of the base through which the rods extend, each fixed jaw having a forked projection; a bar extending between the forks; a movable jaw at each side having a hook engaging the bar and also having a perforated projection; a headed bolt extending through the perforations on both movable jaws, said bolt being threaded; and a nut mounted on the threaded portion of the bolt so that, on turning the nut in one direction, the jaws will clamp the rods, holding them firmly to the base.

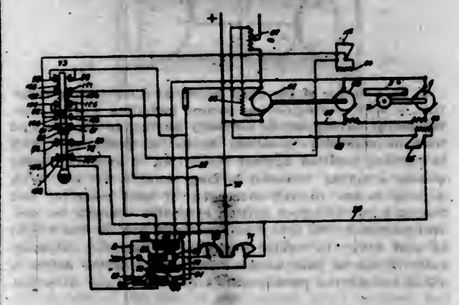
1,397,395. DENTAL SCALER. WILLIAM H. H. BIXLER, Philadelphia, Pa., assignor to de Sanno & Hoskins, a Corporation of Pennsylvania. Filed Oct. 14, 1920. Serial No. 416,886. 1 Claim. (Cl. 32—10.)

A dental hand tool for scaling purposes, consisting of a handle extended into a shank whose operating end portion is reversely bent and terminating in a chisel end whose cutting edge is arranged transversely to the axis of the handle, said reversely bent end portion being substantially rectangular in cross section so as to provide



four substantially right angled scraping edges, whereby the tartar may be removed from the tooth by said scraping edges by a push or a pull movement along the axial length of the handle.

1,397,396. PLANER, AND SYSTEM OF MOTOR CONTROL THEREFOR. HAROLD L. BLOOD, Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Original application filed Mar. 15, 1917, Serial No. 154,927. Divided and this application filed Jan. 7, 1918. Serial No. 210,624. 3 Claims. (Cl. 172—240.)



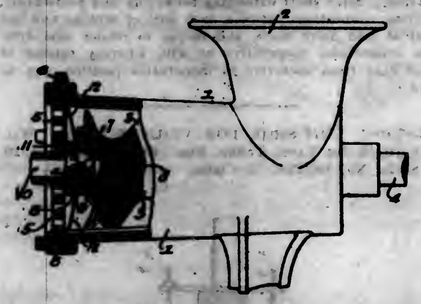
3. The combination of a reciprocating table, a reversing electric motor connected with the table, a resistance in circuit with the motor field, an automatic table actuated switch normally serving to successively reverse the motor and cause it to drive the table successively in opposite directions, a manually operable switch supplemental to the table actuated switch for controlling and reversing the motor, and a circuit extending through the supplemental switch and serving to short-circuit the motor field resistance upon movement of the supplemental switch to an operative position.

1,397,397. POLISH FOR STOVES AND OTHER ARTICLES. NATHAN BOYNOFF, Webster City, Iowa. Filed Feb. 9, 1921. Serial 443,811. 2 Claims. (Cl. 134—25.)

1. A polish for stoves and the like consisting of "Ivory" soap, flaked graphite, lamp black and water.

1,397,398. MEAT-CHOPPER. JOHN WILSON BROWN, Jr., Philadelphia, Pa., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 16, 1920. Serial No. 424,357. 1 Claim. (Cl. 17—20.)

The combination in a meat chopper, of a casing; a perforated plate at the end of the casing; a feed screw within the casing; a spindle projecting from the end of the feed screw, said spindle having a rectangular portion; a socket in the end of the feed screw; and a cutter having a hub and blades, said blades fitting against the perforated plate, the hub being mounted on the rectangular portion of the spindle and the rear of said hub being rounded and fitting the socket forming a ball and socket joint, the opening in the cutter being tapered from the



rear to a point near the front and flared from this point to the front so as to allow the cutter to accommodate itself to the plate and to hold the cutter centrally on the spindle.

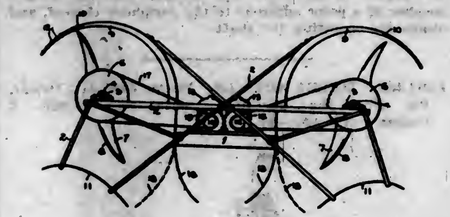
1,397,399. MEANS FOR POLISHING MULTIFOCAL LENSES. LUCIAN W. BUGBEE, Indianapolis, Ind., assignor to Onepiece Bifocal Lens Company, Indianapolis, Ind., a Corporation. Filed Mar. 18, 1920. Serial No. 365,400. 9 Claims. (Cl. 51—131.)



2. The combination with a lens holder for holding a lens blank having a plurality of concentric surfaces to be polished, and means for rotating the same, of a polishing button for each surface thereof, a pin frame having a pin for loosely engaging each button, and vertically movable means to which said pin frame is pivoted between the pins so the pin frame can rock thereon vertically.

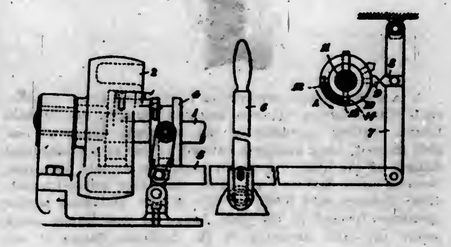
1,397,400. AERIAL APPARATUS OR FLYING-MACHINE. ELVYN FREMONT BURRILL, Berkeley, Calif. Filed Dec. 4, 1919. Serial No. 342,567. 4 Claims. (Cl. 244—16.)

1. In an aerial apparatus, or flying machine, propelling means comprising a pair of vertically and oppositely rotating tangential fans, or accelerators; positive collector or guide planes, cylindroidal in shape, placed above and about said accelerators, adapted to collect the dispersed upward tending and upper-horizontally tending tangential streams and to turn said streams into a downward direction; and negative collector or guide planes, cylindroidal in shape, placed below said accelerators, having their curves inverse to the circles of rotation of the fans,



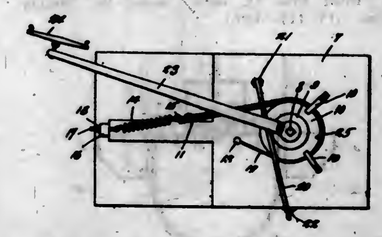
adapted to receive the negative upward thrusts generated beneath them by the partial vacuums above, and to turn the lower-horizontally tending streams into a downward direction; all substantially as specified.

1,397,401. CLUTCH. ARTHUR BUTTERWORTH, ARTHUR BUTTERWORTH, Jr., and HAROLD BUTTERWORTH, Rochdale, England. Filed Nov. 13, 1919. Serial No. 337,842. 2 Claims. (Cl. 192—33.)



1. In a machine tool the combination of a work spindle, driving means to rotate said spindle, a clutch between said spindle and said driving means, a stop for automatically actuating said clutch after a predetermined number of revolutions of the spindle, a pivoted arm adapted to engage with said stop, a projection on said arm, means connecting said pivoted arm to said clutch, a driving shaft, a sleeve having angular motion relatively to said driving shaft and a spring connecting said sleeve to said driving shaft and limiting said angular motion.

1,397,402. HOOP-COILING MACHINE. STONEWALL JACKSON CAROLAND, Woodlawn, Tenn. Filed Oct. 13, 1920. Serial No. 416,745. 1 Claim. (Cl. 144—268.)



In a hoop coiling machine, a frame, an operating shaft mounted on the frame, a drum secured to the operating shaft to move therewith, a strip of flexible metal having one end anchored to the frame at a point adjacent

to the drum, resilient means for connecting the opposite end of the flexible member to the frame, clamping fingers carried by the frame and overlying the upper edge of the drum, a pivoted lever adapted to move across one corner of the drum and contact with the flexible member at a point adjacent to the periphery thereof, and means for operating the shaft.

1,397,403. TOILET ARTICLE. FRANK CHEBOSAK, Orient, Pa. Filed June 20, 1921. Serial No. 479,062. 3 Claims. (Cl. 132—87.)

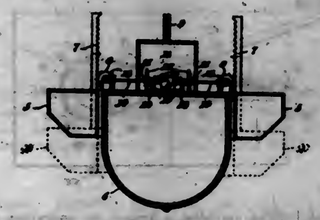


3. A toilet article comprising mirror and brush frames, each frame having opposed marginal flanges, one of said frames having openings in the marginal flange at one side thereof, hook members carried by one of the marginal flanges of the other frame for reception in said openings, tension latch devices connecting the other adjacent marginal flanges, said tension latch devices including keeper openings formed in the side flange of one frame, latch levers pivotally mounted in the adjacent flange of the other frame, a spring associated with each latch lever for holding the same under tension, and finger levers for operating the tensioned latch levers.

1,397,404. COMPOSITION FOR THE TREATMENT OF CAST-IRON. HENRY L. COLBS, Hamilton, Ohio, assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed July 10, 1920. Serial No. 395,187. 15 Claims. (Cl. 75—45.)

1. A composition for the treatment of iron, comprising a mixture of an alloy of titanium, an alloy of manganese and a softening agent.

1,397,405. SHIP-PROTECTOR. YURAJ DEDIK, Boswell, Pa. Filed June 11, 1920. Serial No. 388,114. 1 Claim. (Cl. 114—123.)



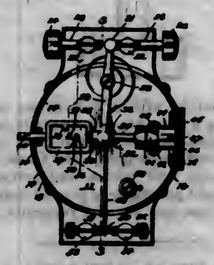
A ship protector comprising in combination with a vessel, an endless horizontally disposed hollow float conforming to and extending entirely around the hull of the vessel adjacent the waterline thereof, forward and rear pairs of rack bars rigid with and extending upward from the float at the opposite sides of the hull, pinions meshing with said rack bars and mounted on the deck of the vessel, a motor mounted on the deck of the vessel and having a drive shaft extending forwardly and rearwardly, driving connections between each pair of pinions and one end of said drive shaft, and means to render said driving connections inoperative at will, whereby raising of said float from operative to inoperative position may be had.

1,397,406. GRIP-SHOE FOR VEHICLE-TIRES. WILLIAM G. DE VANE, Trilby, Fla. Filed Aug. 23, 1920. Serial No. 405,281. 1 Claim. (Cl. 152—14.)



A grip shoe for vehicle tires comprising a relatively wide body having a semi-circular concave portion intermediate its ends of such size as to snugly receive the tire of the vehicle, the inner surface of said concave portion being smooth, the ends of said body constituting wings inwardly of the widest portion of the tire, flanges at the longitudinal edges of said wings extending outwardly therefrom, the said flanges being relatively shallow for the greater part of their length and being of increased depth as they approach the concave portion, the said flanges joining the concave portion at the sides and well above the tread portions thereof, the outer surface of the shoe being otherwise smooth and unobstructed, and means for securing said shoe upon the tire.

1,397,407. THERMOSTAT AND SIMILAR CONTROL DEVICE. PARRIS DODGE, Washington, D. C., assignor to The Johnson Service Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed May 13, 1920. Serial No. 381,200. 10 Claims. (Cl. 236—47.)



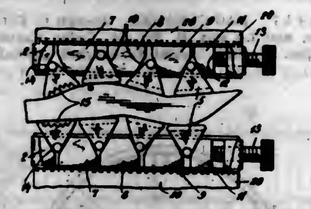
1. The combination of an automatic control device including a responsive element; a movable member for adjusting the action of said element; stops serving to limit the movement of said member in opposite directions; a reversible spring mechanism serving to hold said member against each of said stops in alternation, as the action of the spring mechanism is reversed; and means for shifting said spring mechanism to reverse its action.

1,397,408. RAILWAY-SWITCH-OPERATING MECHANISM. JAMES R. DUDLEY, Bessemer, Ala. Filed Aug. 8, 1921. Serial No. 490,677. 5 Claims. (Cl. 246—297.)



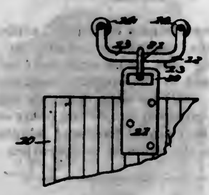
1. An operating mechanism for railway switches and gates comprising a bar movable transversely of the track, a segmental member fixed thereto, an oppositely facing segmental member carried by a locomotive and vertically positioned rollers on one of said segmental members, substantially as set forth.

1,397,409. EQUALIZING ATTACHMENT FOR VISE-JAWS. WALTER SCOTT DOWELIUS, Cincinnati, Ohio. Filed Oct. 5, 1918. Serial No. 256,990. 7 Claims. (Cl. 81—38.)



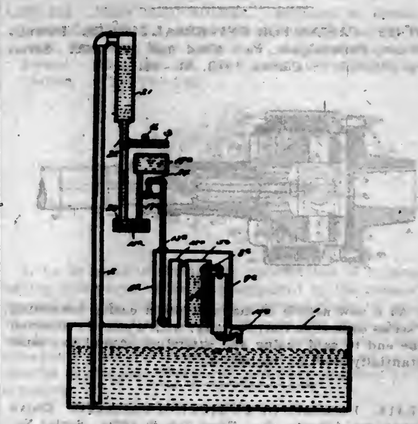
1. An equalizing attachment for vise jaws comprising an elongated casing provided with an inwardly directed flange along each longitudinal edge, and a plurality of substantially triangular members protruding from the casing and provided with lugs at their inner ends adapted to engage the flanges to retain them within the casing, one of said triangular members being formed with a curved outer face having vertical serrations therein, and others of said members being formed with flat outer faces having horizontal channels therein and also indentations to receive the heads of screws that may be held by the triangular members.

1,397,410. BOX-CAR-DOOR HANGER. CLAUDE HARMON ENDICOTT, Bayard, Nebr. Filed July 14, 1920. Serial No. 396,087. 1 Claim. (Cl. 16—103.)



A door hanger having a stirrup attached to the upper edge of the door, the said stirrup being formed with a loop, a traveler for movement on a track consisting of a member shaped to provide forwardly and rearwardly extending arms, rollers carried at the extremities of said arms, and a link disposed around said traveler and through the loop in said stirrup, the link having a substantial movement longitudinally of the traveler and also having a substantial movement in the loop of the stirrup.

1,397,411. STATIONARY CHEMICAL-MIXING FIRE-EXTINGUISHER SYSTEM. JOHN W. ENRIGHT, New Orleans, La. Filed Mar. 10, 1919. Serial No. 281,680. 8 Claims. (Cl. 169—8.)



1. In a stationary chemical mixing fire extinguisher system, a tank for an alkaline solution normally under atmospheric pressure, an acid receptacle, means set in operation by a pneumatic impulse for effecting the transfer of acid from said receptacle to said tank, a receptacle to contain liquid, means to transmit said pneumatic impulse and through which said liquid may flow to generate said impulse, a mercury trap for holding said liquid in said receptacle, and fluid means normally holding said trap operative and acting automatically under fire emergency conditions to render said trap inoperative whereby said liquid may pass to said impulse transmitting means.

1,397,412. THERMOMETER PROTECTOR AND SHIPPING-GUARD. CLAUS EDWARD ERICKSON, Des Moines, Iowa. Filed Jan. 2, 1920. Serial No. 349,116. 7 Claims. (Cl. 73—52.)



1. In a device of the class described, a means for protecting a thermometer tube mounted on a support formed with a recess, said recess being designed to receive said thermometer tube, said first means comprising a guard

adapted to be placed over said thermometer tube, and means for detachably fastening said guard to said support, said last means comprising fingers formed on said guard adapted to extend through said support.

1,397,413. CASING FOR UNIVERSAL JOINTS. Powell Evans, Philadelphia, Pa. Filed Apr. 19, 1920. Serial No. 375,029. 8 Claims. (Cl. 61—91.)

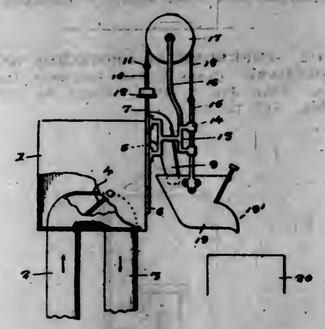


8. As a new article of manufacture a casing consisting of a series of flexible convolutions; with a sleeve connected at one end to said casing and extending around the same substantially coaxial therewith.

1,397,414. PROCESS OF PURIFYING BAUXITE. Edgar Everhart, Atlanta, Ga. Filed Feb. 9, 1920. Serial No. 357,409. 2 Claims. (Cl. 23—84.)

1. A separating process, consisting in subjecting clay contaminated bauxite ores to disintegration, and agitation, in a clay deflocculating liquid, until the clayey components are suspended, and then separately removing the suspended clay and the granular bauxite; the disintegration being regulated to retain bauxite in granular form.

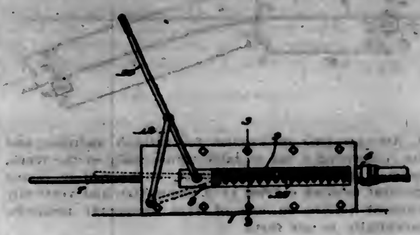
1,397,415. PULP-FEED REGULATOR. Henry Andrew Fensky, Ladysmith, Wis. Filed Aug. 14, 1920. Serial No. 403,534. 4 Claims. (Cl. 97—46.)



1. In combination with a stuff box and mixing box of a paper pulp apparatus, a gage plate for controlling the outlet port of the stuff box, a spout on said gage plate, a hopper for receiving the pulp in said spout and directing it into the mixing box, a slidable frame connected with the hopper, a pulley, a cable connecting the slidable frame with the gage plate and passing over said pulley and a weight rest connected with the gage plate.

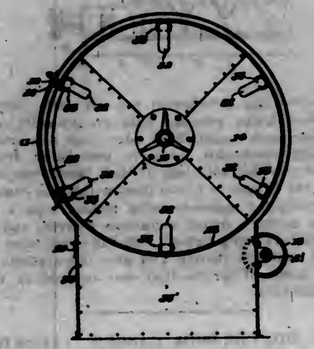
1,397,416. FOOT-OPERATED PUMP FOR PNEUMATIC TIRES. George J. Fleuer, Brooklyn, N. Y. Filed May 28, 1920, Serial No. 385,039. Renewed Oct. 11, 1921. Serial No. 507,156. 3 Claims. (Cl. 230—37.)

1. In a device of the class described, the combination of a cylinder, a tribrachial member, a piston head secured to the ends of the branches of said member, a main frame for supporting said cylinder, and slides secured to each of



the other branches of said member, and mounted in apertures formed in said frame.

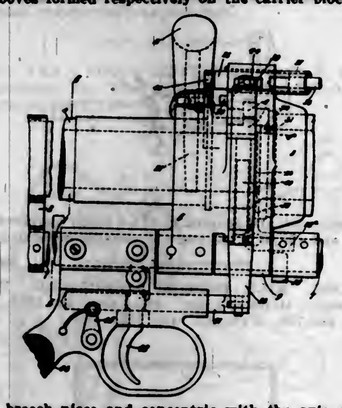
1,397,417. BAG-CLEANER. Joseph C. Fulkerson, Marion, and Le Roy B. Stuart, Cedar Rapids, Iowa. Filed Dec. 23, 1919. Serial No. 346,906. 1 Claim. (Cl. 15—8.)



A bag cleaner comprising a cylindrical supporting casing, a foraminous drum trunnioned axially of said casing, means for rotating said drum exteriorly of the casing, channel bars secured by the opposite ends of the opposing faces of the end walls of said drum in spaced relation interiorly thereof, inwardly projecting floats secured by one of their ends to the channel bars and adapted for engaging the bags when the drum is in operation.

1,397,418. MECHANISM FOR NON-RECOIL BREECH-LOADING GUNS. Belton Tattnall Hamilton, London, England. Filed May 4, 1918. Serial No. 232,626. 12 Claims. (Cl. 89—40.)

2. In a non-recoil gun of the type described, a fore barrel and a rear barrel, the faces of the said barrels being locked together in axial alinement in the firing position, a carrier block rotatably mounted at the breech end of the fore barrel and carrying the rear barrel, a rotatable shaft disposed parallel to the axis of the gun, and on which the carrier block is fixed, a breech piece on the gun and ribs and grooves formed respectively on the carrier block and



on the breech piece and concentric with the axis of the said shaft.

1,397,419. RAILWAY-SIGNAL. Newton L. Harkness, Parsons, Kans. Filed June 6, 1921. Serial No. 475,505. 1 Claim. (Cl. 246—293.)



In a railway signal apparatus, a trip arm movably supported and adapted to be actuated by a moving train, a signal carrying arm initially in horisontal position, coupling means between said trip arm and signal conveying arm, and a combined guide and holding device coacting with the signal carrying member and including converging portions with which the signal carrying arm frictionally engages when in one position.

1,397,420. TRANSMISSION-LOCK. William Hebern and Albert J. Gray, Oakland, Calif., assignors to Security Auto Lock Co., a Copartnership consisting of Albert J. Gray, William Hebern, and David Guild, Jr. Filed Jan. 7, 1920. Serial No. 349,956. 6 Claims. (Cl. 70—128.)



2. The combination with the gear shift lever on an automobile and the casing in which the lever is supported, of a base member adapted to inclose the upper end of the casing, said base member consisting of two separable sections, means for securing said sections with relation to each other and with relation to the casing, and a pair of locking members carried by the base member adapted to embrace the gear shift lever and lock it against movement, and also adapted to entirely inclose the base member and cover the means whereby the base sections are secured.

1,397,421. ELECTRIC SIGNAL. Richard M. Hopkins, Rutherford, N. J., assignor to American District Telegraph Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 25, 1918. Serial No. 259,616. 5 Claims. (Cl. 177—329.)



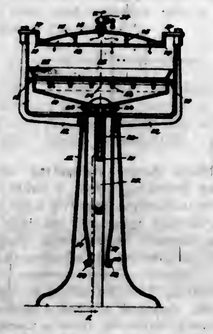
1. In an electric signal, the combination of a magnet having pole pieces; a bracket supported by the magnet in proximity to the pole pieces; an armature pivotally mounted intermediate its ends and between the poles on said bracket on an axis parallel to the pole pieces; and a semaphore pivotally mounted on said bracket on an axis parallel to the pole pieces and positively actuated by the armature.

1,397,422. HAND-FIRED FURNACE. William S. Hotchkiss and John E. W. Sherman, Memphis, Tenn. Filed June 3, 1919. Serial No. 301,555. 4 Claims. (Cl. 110—74.)



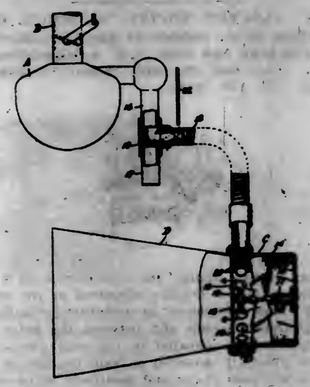
1. A combined forced draft and natural draft shaker grate comprising alternately arranged hollow and shaker grate bars, the former being provided with crowns having twyer openings and the latter consisting of series of independently movable elements having trunnions mounted in bearings on the side walls of the hollow bars, means respectively for supplying a forced draft to the hollow bars, and means for operating said shaker bars.

1,397,423. DEVICE FOR MOISTENING AND WRINGING COMPRESSES. Clinton Clarence Humphries, Norfolk, Va. Filed Mar. 8, 1921. Serial No. 450,608. 8 Claims. (Cl. 68—37.)



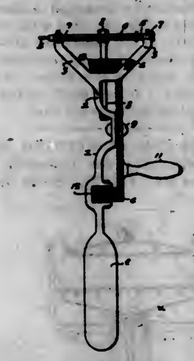
3. The combination of a water spraying device; a water expressing device; and means for causing each of said devices to act on a compress without intervening manipulation of the compress.

1,397,424. AUTOMOBILE-SIGNAL. GRAHAM WYLIE JARVIS, Charlottesville, Va. Filed May 3, 1921. Serial No. 466,411. 1 Claim. (Cl. 116—138.)



An automobile signal comprising a horn, a diaphragm, a casing attached to the rear of the horn having a perforated rear wall, a bearing secured to said wall, a shaft mounted to rotate in said bearing, a cam on the shaft for engagement with the diaphragm, a rotor mounted on the shaft, an annular chamber surrounding the casing at one end, a plurality of communications between the interior of the casing and the annular chamber, and means attached to the annular chamber for causing a current of air to pass through the perforations in the rear wall into the casing to cause rotation of the rotor and shaft, substantially as set forth.

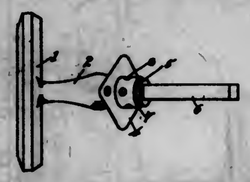
1,397,425. PYROTECHNIC DEVICE. JOHN JEX, Newark, Del. Filed Nov. 26, 1919. Serial No. 340,695. 4 Claims. (Cl. 102—20.)



1. A pyrotechnic device consisting of a supporting structure having diverging arms; a shaft; a rotary abrasive member mounted on the shaft; a body of material supported by each of said arms and coacting with the abrasive member to produce incandescent particles when the latter is turned; and means for rotating the shaft.

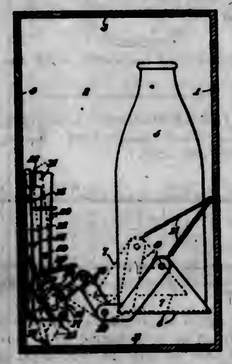
1,397,426. VEHICLE DOOR-HANDLE. JOHN G. KAEFER, Norwood, Ohio, assignor to The Cincinnati Aluminum Casting Company, Norwood, Ohio, a Corporation of Ohio. Filed July 8, 1920. Serial No. 394,680. 4 Claims. (Cl. 292—348.)

1. In a device of the character described, the combination of a handle shaft, an abutment thereon, an escutcheon plate engaging against said abutment, and a metallic member set over the shaft on the other side of the plate from



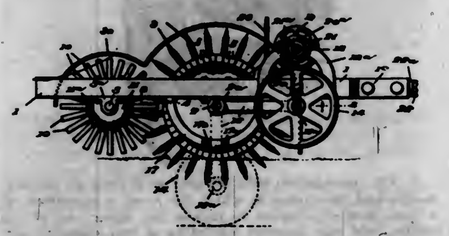
the abutment, and adapted to be set firmly against the said plate and united to the shaft by metallic indentation.

1,397,427. MILK-BOTTLE RECEPTACLE. WILLIAM KASNUS, Meriden, Conn. Filed Sept. 15, 1921. Serial No. 500,729. 3 Claims. (Cl. 232—41.)



1. A device of the class described comprising a receptacle having a hinged door, a pivotally mounted platform within the receptacle, a sliding keeper bolt carried by one wall of the receptacle, lever and link connections between the keeper bolt and platform, a locking bolt carried by the door adapted to be engaged by the keeper bolt to hold the door in locked position, and a latch lever having one end thereof adapted to overlie the keeper bolt to prevent upward movement thereof and be engaged by the lock bolt upon the door to displace the same from engaging position with the keeper bolt to permit coöperation of the lock and keeper bolts.

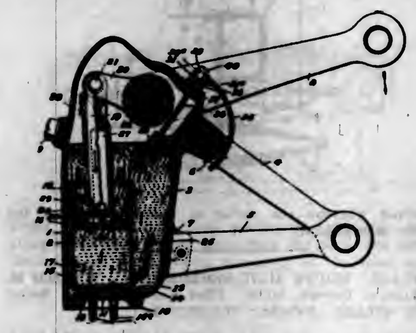
1,397,428. SOIL-DISINTEGRATOR. ISAAC A. KNER, Memphis, Tenn. Filed Dec. 17, 1920. Serial No. 431,412. 5 Claims. (Cl. 97—63.)



1. For a machine of the character described, a disintegrating cylinder comprising pairs of bars and series of

spikes or digging members clamped between the bars, said bars being provided with notches in their heads to position the spikes, substantially as described.

1,397,429. SHOCK-DIFFUSER. FRANK F. LANDIS, Waynesboro, Pa. Filed July 7, 1916. Serial No. 108,036. 32 Claims. (Cl. 188—88.)



12. A shock diffuser comprising a liquid containing casing, a cylinder in said casing, a piston operable in said cylinder, a piston rod connected to said piston and provided with an air chamber, said air chamber providing a cushion to initially diffuse the shock, and means communicating with the atmosphere for admitting air into the air chamber, substantially as set forth.

1,397,430. BRAKE. SANDER LANKHEET, Hamilton, Mich. Filed July 20, 1920. Serial No. 397,587. 3 Claims. (Cl. 188—77.)



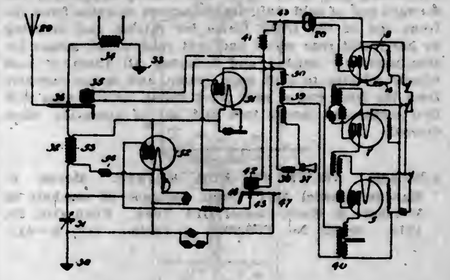
1. A brake comprising a brake band, means for mechanically forcing the ends of the brake band together, and a spring directly providing a connection between said means and brake band.

1,397,431. SPRING-LINK. LEE J. LITCHFIELD, Elsie, Mich. Filed Mar. 12, 1920. Serial No. 365,306. 1 Claim. (Cl. 24—73.)



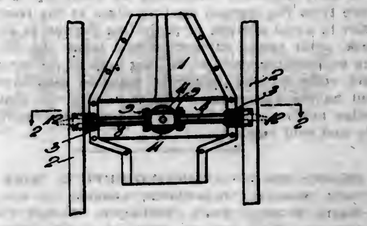
In a spring link the combination of a pair of buttons having clips upon their backs, said clips formed of resilient material and having separable ends lying in abutment, and a spiral spring having each end portion formed in a loop for engagement in said clips.

1,397,432. SIGNALING SYSTEM. CHARLES V. LOCWOOD, New York, N. Y. Filed June 16, 1917. Serial No. 175,131. 5 Claims. (Cl. 250—6.)



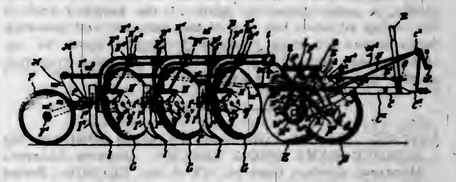
1. The combination with a receiving circuit and a transmitting circuit, provided with a common antenna, a switch normally connecting said antenna to said receiving circuit, a relay controlling said switch, an audion, a signaling device associated with said audion and with said transmitting circuit, means actuated by the operation of said signaling device for paralyzing said audion, and means operated thereby for actuating said relay to operate said switch.

1,397,433. MOTOR-SUPPORT. JOHN H. MCCORMICK, Creston, Iowa. Filed Oct. 7, 1920. Serial No. 415,326. 2 Claims. (Cl. 180—64.)



2. A motor support comprising hanger bars each having a fastener receiving foot at its inner end and spaced chassis bar engaging hooks at its outer end, the hanger bar being bent transversely, adjacent the hooks to offset the hooks and again bent transversely in spaced relation to the hooks and curved longitudinally from the second bend to said foot, and fastener means adjustably connecting the feet of the base.

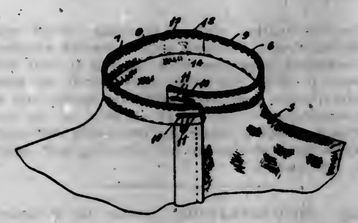
1,397,434. DISK PLOW AND SUBSOILER. AUGUSTA POSTELLE MCKAY, Rome, Ga., assignor to McKay Disk Plow Co., Rome, Ga., a Corporation of Georgia. Filed Sept. 15, 1920. Serial No. 410,563. 12 Claims. (Cl. 97—36.)



1. Apparatus of the character described, comprising a main frame, a rear wheel pivoted thereto, plows car-

ried by said main frame, a truck frame pivoted to and supporting said main frame near its forward end, a road wheel and a furrow wheel journaled beneath and supporting said truck frame and thereby supporting the forward end of said main frame, screws operable from the front end of the truck frame for raising and lowering by hand said rear wheel and said road wheel, means for simultaneously raising and lowering all three of said wheels relative to said main frame, and means operable from the front end of said truck frame for throwing said first mentioned means into and out of operation when desired.

1,397,435. NECKBAND FOR SHIRTS. MOSES E. MANIAN, Chapel Hill, Tenn., assignor of one-half to Marshall B. Kerr, Chapel Hill, Tenn. Filed Oct. 25, 1918. Serial No. 259,699. 1 Claim. (Cl. 2—41.)



A shirt neckband comprising an inner ply in a single piece from the opposed meeting edges at the front of the shirt to avoid a rough or projecting portion to annoy the neck, outer bands stitched to said inner ply, the stitching terminating short of the rear ends of the outer bands, said ends forming relatively movable tabs overlapping and having registering holes to receive the shank of a collar button whose base is retained between the first ply and said bands.

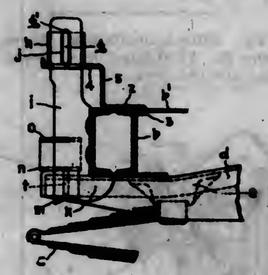
1,397,436. SNOW-GATHERING DEVICE. MIKO MARKOVICH, Bosevac, Jugo-Slavia, assignor of one-half to David Stupich, South Wellington, British Columbia, Canada. Filed Oct. 22, 1920. Serial No. 418,865. 5 Claims. (Cl. 37—62.)



1. A device of the class described comprising an elongated casing having an open forward end and adapted for travel upon a track, an endless conveyer within the casing, a snow gathering plate at the forward end of the casing adjacent one end of the conveyer and breaking down means for snow mounted for travel upon the top of the casing normally positioned for use projecting forwardly and above said plate.

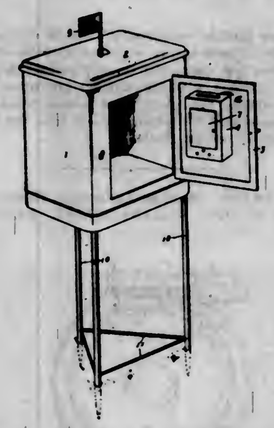
1,397,437. MEANS FOR COMPRESSING SPRINGS TO REMOVE SAME FROM TRUCKS. JOSEPH MARTEL, Montreal, Quebec, Canada. Filed Dec. 31, 1919. Serial No. 348,538. 7 Claims. (Cl. 29—87.1.)

1. Means for compressing springs to remove same from trucks consisting of means detachably engaging a fixed part of the truck, and an expansile device adapted to act as a strut between the said means and the spring to be



removed whereby the latter is compressed when the device is expanded.

1,397,438. HOUSE MAIL-RECEPTACLE. WILLIAM H. MARTIN, Detroit, Mich. Filed Sept. 1, 1920. Serial No. 407,522. 1 Claim. (Cl. 232—24.)

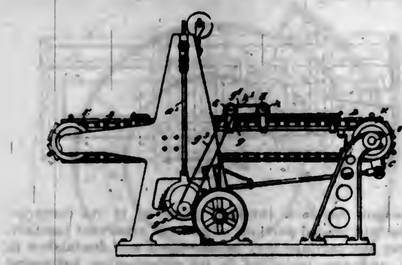


A deposit receptacle for accommodating letters and packages comprising, a large compartment having a hinged cover to provide for receiving packages, a hinged signal thereon, a hinged side door therefor, a small compartment for receiving letters mounted upon the inner side of the door, said door having a slot affording means whereby letters may be deposited in the said small compartment when the door is closed, a hinged protecting cover for the slot, a hinged door on the inner side of said small compartment whereby the letters may be removed when the aforementioned hinged side door is open, a lock for the hinged door on the small compartment and posts on the receptacle for supporting it on the lawn.

1,397,439. FEED MECHANISM FOR WIRE-BOUND BOX-BLANK MACHINES. HOWARD G. MEAD, St. Louis, Mo., assignor, by mesne assignments, to Wirebounds Patents Company, Kittery, Me., a Corporation of Maine. Filed July 14, 1911, Serial No. 638,575. Renewed Dec. 20, 1919. Serial No. 346,437. 53 Claims. (Cl. 1—8.3.)

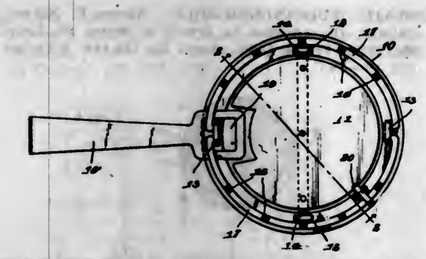
16. In a machine for making wirebound box blanks, the combination of a main feed mechanism for causing

the cleats and sheets to move along in properly assembled relation; mechanism for securing the sheets to the cleats; and an auxiliary feed mechanism operative to advance the sheets on the cleats before they are secured to the



cleats, said auxiliary feed mechanism, at times, operating at a higher rate of speed than the main feed mechanism and, at other times, operating at the same speed as the main feed mechanism.

1,397,440. ANIMAL-TRAP. KARP MELNICK, Plantsville, Conn. Filed Jan. 12, 1920. Serial No. 350,962. 1 Claim. (Cl. 43—92.)

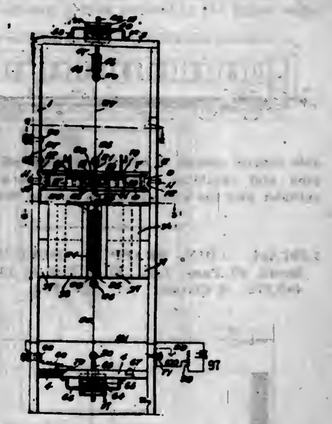


A trap comprising a base having a central opening, spaced pairs of diametrically opposed lugs rising from the base, a shaft journaled between one pair of lugs, a disk carried by said shaft and movable within the opening of the base, jaws pivoted between the other lugs, a spring having one end secured to the base and its opposite end associated with the jaws to forcibly move the latter into gripping relation, spaced lugs rising from the base, an elongated member pivoted between the latter mentioned lugs, a shoulder formed on one side of the elongated member, a right angularly disposed extension constituting the terminal of said member and projecting from the opposite side of said member, said member being disposed vertically in active position, and having its shoulder reposing upon said disk, said extension being arranged in a plane above said shoulder and adapted to overlie one of said jaws, whereby the said jaws are held in a set position.

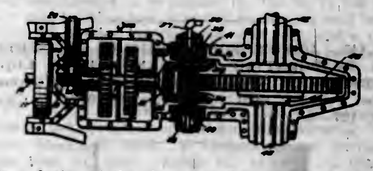
1,397,441. ELECTRICAL MEASURING INSTRUMENT. CARL DANFORTH MILLER, Rockville, Mass. Filed Apr. 5, 1919. Serial No. 287,726. 9 Claims. (Cl. 171—95.)

1. An electrical measuring instrument comprising an electrometer, and electromagnetic torque producing means, the rotary elements of said electrometer and electromagnetic torque producing means being mechanically connected.

5. The method of measuring electrical potential difference which consists in causing balanced counter torques to be produced directly upon a common rotatable member by the electro-static effect of the potential to be measured and by electro-magnetic means, respectively, and measuring the amount of electrical current in producing the electro-magnetic torque.



1,397,442. TRANSMISSION-GEARING. CLAUD E. MILLS, Des Moines, Iowa. Filed Oct. 28, 1919. Serial No. 334,058. 1 Claim. (Cl. 74—58.)



In a device of the class described, an engine shaft, a driven shaft, a clutch connection between said shafts, gears rotatably but non-slidably mounted on said driven shaft having clutch members thereon, a sliding clutch member non-rotatably mounted on the driven shaft and adapted to be moved to selectively engage with the clutch members on the respective gears on said shaft, a counter-shaft parallel with said driven shaft, non-slidable gears fixed on said counter-shaft in mesh with the respective gears on said driven shaft, a transverse shaft, spaced beveled gears thereon slidably but non-rotatably mounted, a gear of smaller diameter connecting said spaced beveled gears, a beveled gear on said counter-shaft adapted to mesh with said respective beveled gears in different positions thereof, means for sliding said beveled gears, a differential gear in mesh with the gear which connects said beveled gears, a beveled gear rotatably mounted on said counter-shaft having a clutch member, a clutch member slidably but non-rotatably mounted on said counter-shaft adapted to coact with the clutch member on said last gear, a second driven shaft having a gear thereon in mesh with said last beveled gear.

1,397,443. RAILWAY-BRAKE. TAKEO MIYAGI, Waipahu, Hawaii. Filed Jan. 8, 1921. Serial No. 435,871. 12 Claims. (Cl. 303—18.)

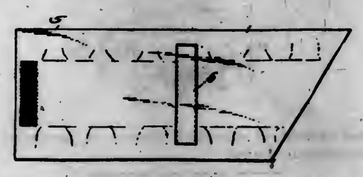
1. In a railway brake, the combination of brake shoes, rods connected therewith, a lever connected with said rods, a lever arranged in parallel relation to the first-named lever, one of said levers having pins and the other abutments opposed to the pins, a cylinder, a piston movable in the cylinder and connected with the second-named lever, a train pipe for fluid under pressure, means to es-

tablish communication between the train pipe and the cylinder to set the brake shoes against wheels, and mov-



able control means to cut the cylinder off from the train pipe and establish communication between the brake cylinder and the atmosphere to release the brake shoes.

1,397,444. COIN-WRAPPING DEVICE. ARTHUR D. MOHR, El Paso, Tex. Filed Feb. 8, 1921. Serial No. 443,372. 6 Claims. (Cl. 133—10.)



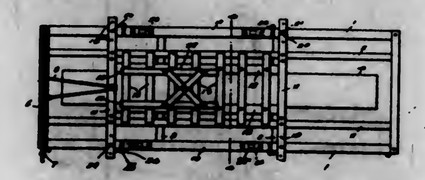
1. A wrapper of the class specified having a medium for producing on a part of the wrapper a record of the number of coins originally inclosed in the wrapper.

1,397,445. DEVICE FOR ATOMIZING AND DRYING OR EVAPORATING MILK AND OTHER LIQUID SUBSTANCES. PHILIPP MÜLLER, Leipzig, Germany. Filed Feb. 24, 1920. Serial No. 360,907. 2 Claims. (Cl. 127—9.)



1. In a device for atomizing and drying or evaporating milk and other liquid substances, the combination of a discharge tube for the substance to be treated with a member projecting into the discharge opening of said discharge tube so as to transform the discharge flow of liquid into an annular jet, said member having discharge openings for a pressure medium within said member, said discharge openings being positioned in proximity to the discharge opening of said tube and another member for feeding a drying medium, the discharge opening of said last named feeding member being disposed below said discharge openings for said pressure medium, whereby the substance to be treated is first atomized and then subjected to the drying action of said drying medium.

1,397,446. WAGON-HAYRACK CARRIAGE. JACOB S. MYERS, Hagerstown, Md., assignor to Warren Murray Buechtel and Joseph K. Hoffman, Hagerstown, Md. Filed Mar. 2, 1921. Serial No. 449,099. 1 Claim. (Cl. 296—6.)



A wagon hay-rack carriage including in its construction upright lapped portions adjustably connected together, whereby the carriage may be increased and diminished in depth, and also including in its construction horizontal transverse portions and horizontal longitudinal portions adjustably connected to the transverse portions whereby the carriage may be increased and diminished in width, rollers carried by and under the said longitudinal horizontal portions and arranged to bear on the side rails of a wagon bed, pendent portions carried by said longitudinal horizontal portions, and rollers mounted on said pendent portions and arranged to bear against the outer edges of said rails.

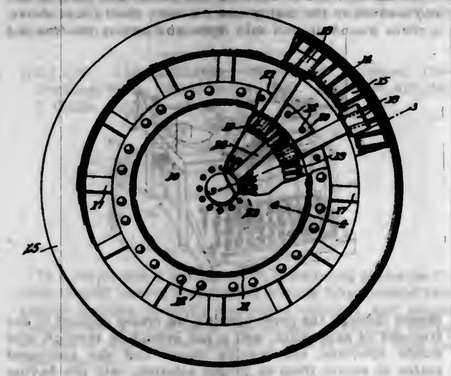
1,397,447. VULCANIZING-MOLD. ELMER F. NELSON, Chicago, Ill., assignor to Arnold A. Weiss, St. Louis, Mo. Filed Feb. 4, 1920. Serial No. 356,188. 5 Claims. (Cl. 18—38.)



1. A portable rubber vulcanising mold for cushion tire-fillers and the like, the same including, in combination, a shell comprising a pair of rigid ring-shaped separable sections substantially semi-cylindrical in shape in cross-section, said sections being adapted for coöperation to approximately meet at their edges to substantially house the rubber to be vulcanized, the shell being adapted for location during vulcanisation within a vulcanizing or heating kettle, a tubular member disposed within both the chamber formed by said sections and the rubber contained therein for vulcanisation, said member having communication through said rubber with the exterior of the shell for conducting heating fluid from the kettle into the interior of the rubber being vulcanised within the shell for facilitating vulcanisation of the interior of the rubber, means within the shell and rubber being vulcanised for channeling said rubber to permit ready removal of the tubular member after rubber vulcanisation, and means for rigidly locking said sections detachably together in rubber housing coöperation, said heating fluid conducting-member being locked within the shell when said sections are so locked together in rubber housing coöperation.

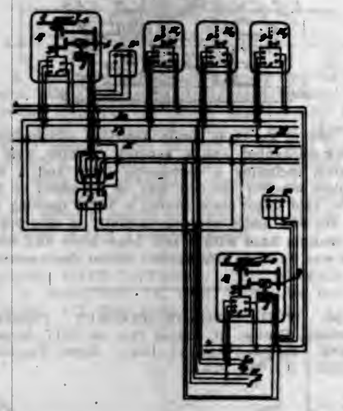
1,397,448. SPRING-WHEEL. WILLIAM F. NORRIS, Kansas City, Mo. Filed Feb. 14, 1921. Serial No. 444,785. 2 Claims. (Cl. 152—29.)

2. A spring wheel comprising a pair of disks formed with mating pressed out portions coöperating to define a channel, spacing elements between the disks operating to define a series of radial openings leading into said channel, a coil spring located within said channel, a hub member at the centers of said disks, a coil spring located between the disks and surrounding said hub, a plurality of elongated loops engaging both of said springs, an outer rim



member, and a plurality of spokes slidable through said radial openings and having forked ends engaging against said first named spring and said rim member.

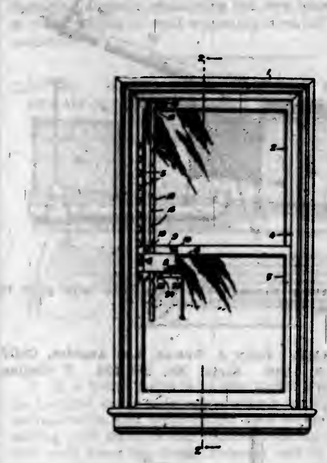
1,397,449. ELECTRICALLY OPERATING MECHANISM FROM A DISTANCE. ALEXANDER PARSHIN, London, England. Filed Nov. 20, 1918. Serial No. 263,288. 14 Claims. (Cl. 172—293.)



1. A system of operating electrically synchronous mechanisms from a distance, comprising an electric circuit carrying current which periodically increases and diminishes in strength, electric motors adapted to be operated by such current and connected in parallel in the circuit, means for closing the circuit when the condition of the said current is such that the synchronous mechanisms cannot immediately operate and means for opening the circuit at moments when the current strength therein is about zero value.

1,397,450. SASH-FASTENER. LONNIE T. PENNY, Raleigh, N. C. Filed Feb. 17, 1921. Serial No. 445,740. 2 Claims. (Cl. 292—305.)

1. In combination with a window casing and sashes, a rack secured to the casing at one side, a latching member secured to the upper portion of the lower sash, a latching bolt in said member having a passage therein provided with a lug, and further provided with a lug to latch with said rack on the casing, a rack secured to the upper sash



and guided in the latching member and the latching bolt thereof and adapted to be engaged by the lug in the passage of said latching bolt, a spring for forcing said latching bolt into latched relation with said rack, and a lever engaging said latching bolt for releasing it from said racks.

1,397,451. FENDER DEVICE. MILO D. RATHBUN, Muncie, Ind., assignor to Rathbun Manufacturing Company, Muskegon, Mich., a Corporation of Michigan. Filed Feb. 11, 1921. Serial No. 444,268. 3 Claims. (Cl. 293—55.)

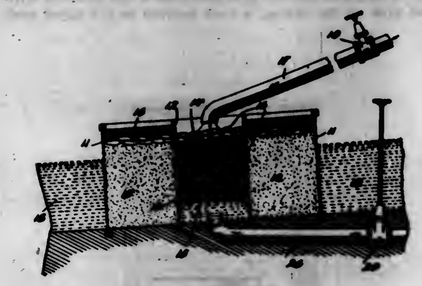


2. In a fender device, the combination of a spring member to be connected to the vehicle frame the spring member being of divided form the ends thereof being in alinement one upon the other, a fender bar carried by the spring and being channel shaped in cross section, a back plate between the edges of the fender bar, check plates inside the back plate, set screws passed through holes in the back plate, and threaded through the check plates and to be tightened against the spring bar, substantially as shown.

1,397,452. APPARATUS FOR PURIFYING WATER. ANDREW J. REED, Wilkes-Barre, Pa. Filed June 28, 1921. Serial No. 481,024. 3 Claims. (Cl. 210—122.)

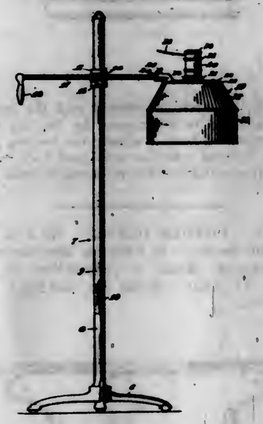
1. Apparatus of the character described including in combination, a mass of coarse anthracite ashes within a reservoir, the upper surface of said mass being normally at a higher elevation than the surface of the water in the reservoir, means to deliver water having matter in suspension into the central part of said mass below its surface,

and a valve controlled drain pipe having its inlet disposed at the bottom of the mass, whereby water may be drained



from the reservoir through the mass into said pipe to clean the mass.

1,397,453. LAMP. JOHN J. REKAR, Los Angeles, Calif. Filed Mar. 3, 1919. Serial No. 280,424. 3 Claims. (Cl. 240—1.)



1. In a lamp, a standard mounted to rotate freely, a clamp-sleeve thereon, a second clamp-sleeve affixed to said first named clamp-sleeve and extending at right angles thereto, a cross arm slidably carried intermediate its ends in said last named clamp-sleeve and adapted to be held against turning thereby in various positions, a lamp shade carried directly by said cross arm and opening at right angles thereto, an electric lamp encircled by said shade, and a handle on the other end of said cross arm whereby the cross arm may be rotated axially to dispose the lamp and shade in various positions.

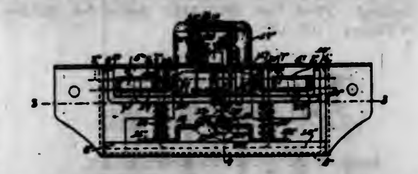
1,397,454. ATTACHMENT FOR TYPEWRITERS. EDWIN H. REYNOLDS, Brooklyn, N. Y., and RICHARD E. BLEAZARD, Fall River, Mass. Filed Aug. 26, 1920. Serial No. 406,225. 2 Claims. (Cl. 120—36.)

2. A typewriter attachment including a substantially rectangular casing having one open side and a pair of alined openings in its ends, a cover for the open side having an opening therein, a drum in said casing, a bearing sleeve in said drum and projecting from one end thereof, a substantially rectangular centrally apertured plate mounted on said sleeve and bearing against said casing, a second centrally apertured plate carried by said sleeve and spaced from the other plate, a convolute spring surrounding said sleeve between the plates and having one end secured to the casing and its other end to said sleeve, a chain wound around said drum and having its free end



passed through the cover opening, an eraser secured to the free end of said chain, and a pin extending through said alined openings, the bearing sleeve and the apertured plates to secure them in proper relation, said pin having a threaded end projecting out of the casing to provide means for attaching the entire device to a typewriter.

1,397,455. BAG-LOCK. BRODIE J. RICHARDSON and CLAIRE S. BARBER, Waterbury, Conn. Filed Dec. 18, 1920. Serial No. 431,545. 14 Claims. (Cl. 70—2.)



3. A lock of the class herein described comprising suitable lock-mechanism and a housing therefor, said lock-mechanism including a depressible bolt; and a hollow finger-piece whereby the bolt may be depressed by finger-pressure, said finger-piece having a major opening at its top; a key-way finder working partially in said opening; and a medium fixed within said finger-piece and whereby the key-way finder is held against casual displacement.

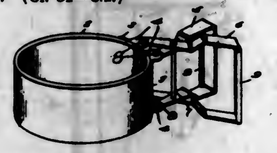
1,397,456. WINDOW-SHADE BRACKET. CHARLES H. ROBINSON, Venice, Ill. Filed Feb. 24, 1917, Serial No. 150,703. Renewed Apr. 21, 1921. Serial No. 463,356. 1 Claim. (Cl. 156—24.)



In a shade bracket, the combination with a bar, of a tubular slide in surrounding relation to the bar, the slide being formed with a pair of transversely disposed ribs in spaced relation to each other, a base plate formed with three longitudinal slots therein, the said ribs passing

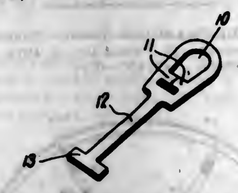
through the two outside slots, and a set screw passing slidably through the center slot and threadingly engaging the sleeve member and bearing upon the bar, whereby the base plate may be adjusted longitudinally along the bar or laterally with respect thereto, the base plate being provided with a shade bracket.

1,397,457. JAR-HOLDER. HAROLD P. EYKEMN, Port Orchard, Wash. Filed Dec. 4, 1920. Serial No. 428,329. 1 Claim. (Cl. 81—3.2.)



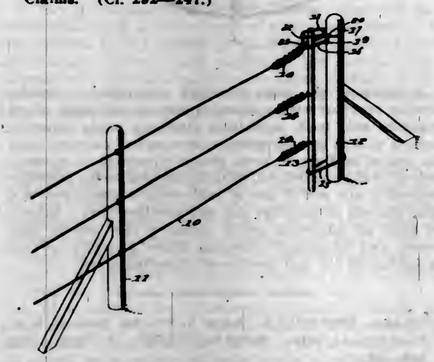
In a jar holder, a flexible strap, reinforcing plates on the ends thereof having outstanding alining lugs, crossed bail-shaped handles pivotally connected together and hinged respectively to the pairs of lugs on said reinforcing plates, and one of said handles being of a greater length than the other handle.

1,397,458. LINK. JOHN V. SANDQUIST, Houston, Tex. Filed July 13, 1920. Serial No. 395,918. 2 Claims. (Cl. 59—91.)



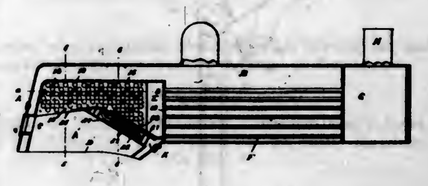
1. A link comprising a member having an opening therein, and a substantially T-shaped bendable member projecting from one end of the link, bendable lugs projecting from the opposed sides of said opening, the T-shaped member being adapted to be bent upon itself to provide a loop with the head thereof passed through said opening and arranged at one side of the link, and said lugs arranged with their free ends contacting to unitedly define a locking bar arranged to engage one side of the head of said T-shaped member.

1,397,459. GATE-FASTENER. CARL SCHMELE, Newell, S. D. Filed Sept. 14, 1920. Serial No. 410,108. 2 Claims. (Cl. 292—247.)



1. A gate stick and fastener embodying oppositely extending loops for respective engagement with a gate stick and a gate post, and a looped operating element having the extremities of its legs loosely connected with the extremity of one of said loops and extending through eyes on the extremities of the other loop, those portions of the operating element connecting the two loops being disposed at right angles to said operating element for the purpose specified.

1,397,460. WATER-ARCH FOR THE FURNACES OF STEAM-BOILERS. ROBERT G. SHAMAN, Summerhill, Pa. Filed Nov. 17, 1917. Serial No. 202,547. 3 Claims. (Cl. 122—65.)



1. In a boiler furnace having upper and lower portions, an inclined water arch comprising a casing having top and bottom walls and longitudinal flues extending through the casing, said flues having intakes opening through the bottom wall near the lower forward end of the firebox and having outlets through the top wall of the casing, discharging at a point approximately midway of the front and rear walls of the furnace, the upper and lower portions of the furnace chamber being in communication at the rear of the water arch.

1,397,461. EMBRYOTOMY DEVICE. THOMAS J. SHUMATE, Washington, D. C. Filed Aug. 23, 1920. Serial No. 405,491. 6 Claims. (Cl. 128—353.)

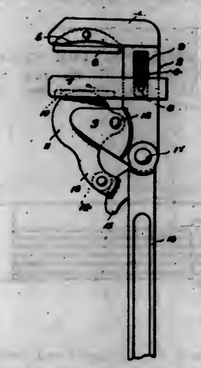


1. An embryotomy device comprising a member of a size to be grasped and surrounded by the hand, said member having a forward end across which the fingers can be hooked, tongs or forceps connected to said member and extending from said forward end thereof and arranged to be opened and closed by the hand, and means operable by the hand for holding said tongs or forceps in position.

1,397,462. WRENCH. HUNTER SMITH, Jr., Seattle, Wash., assignor of one-half to James T. Lawler, Seattle, Wash. Filed May 21, 1920, Serial No. 383,145. Renewed Sept. 24, 1921. Serial No. 503,119. 3 Claims. (Cl. 81—87.)

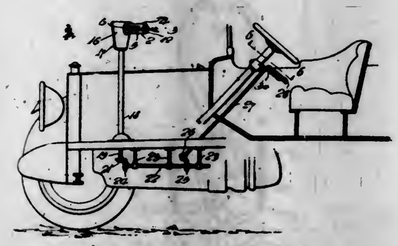
1. A wrench comprising a stationary jaw, a plate pivoted thereto, a shank extending from the jaw, a movable

jaw mounted on the shank, a spring arranged to force the movable jaw in one direction, a cam member pivoted to the



shank, and a handle pivoted to the shank and constructed to force the said cam member to move the said movable jaw against action of said spring.

1,397,463. AUTOMOBILE-SIGNAL. WILLIAM ERNEST SQUIRE, Burkburnett, Tex. Filed Jan. 27, 1921. Serial No. 440,452. 5 Claims. (Cl. 116—43.)



1. The combination with a vehicle; of a signal supported on the latter near the front thereof, said signal including a pair of rearwardly diverging duplicate indicating devices, secured against movement relative to the vehicle and one or the other of which is visible to a person standing at any point within a radius of approximately two hundred and seventy degrees.

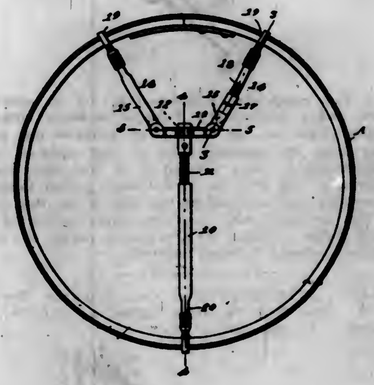
1,397,464. FRUIT-GATHERER. GEORGE SROMOVSKY, Manistique, Mich. Filed Jan. 22, 1921. Serial No. 439,222. 5 Claims. (Cl. 56—333.)

3. A fruit gatherer comprising a pair of pole arms, a pair of pivoted cutting blades having the inner ends thereof adjustably secured in the outer ends of the arms, a gathering receptacle adjustably supported on said arms, said gathering receptacle including a resilient wire frame having bent inner ends, there being aligned socket openings in said poles with the inner bent ends of the frame selectively



received therein and clips carried by the upper edge of the receptacle for attachment to the frame.

1,397,465. TIRE-CHANGING TOOL. ERNEST B. STEFFEY, Lawrenceville, Ill. Filed Dec. 1, 1919. Serial No. 341,573. 1 Claim. (Cl. 157—1.)



A device of the class described comprising a tubular member provided with a threaded bore, an adjusting screw engaging said bore, adjustable clamping hooks pivotally secured to said tubular member, a cross bar swiveled upon the end of said screw, arms pivotally secured to opposite ends of said cross bar, adjustable clamping hooks pivotally secured to the end of one of said arms, a sleeve swiveled upon the end of the other arm and provided with a threaded bore, an adjusting screw engaging the bore in said sleeve, and adjustable clamping hooks pivotally secured to the end of the last mentioned adjusting screw.

1,397,466. UMBRELLA. LEON A. SYOLES, Newark, N. J. Filed Feb. 11, 1919. Serial No. 276,333. 1 Claim. (Cl. 135—33.)

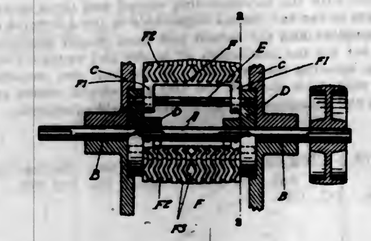
A cover for umbrellas having a staff and ribs, said cover comprising a plurality of substantially triangular sections

of india rubber, which sections have their side edges vulcanized together to overlie the said ribs in overlapped con-



dition, a reinforcing strip of india rubber vulcanized to the outer edge of the cover to complete the same, and a staff receiving cap arranged vertically of said cover.

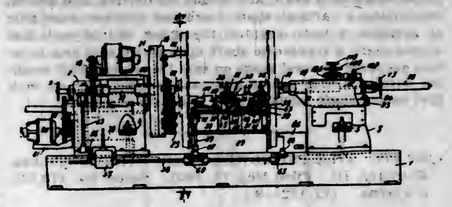
1,397,467. PULVERIZER. JOHN C. TARVIN, Maryville, Tenn.; Mary C. Tarvin administratrix of said John C. Tarvin, deceased. Filed June 13, 1919. Serial No. 303,955. 12 Claims. (Cl. 83—11.)



1. In a pulverizing machine of the nature described, the combination with a rotary body, of a hammer hinged on a line parallel to and outside of the axis of said body and said hammer having a body parallel to said axis and said hammer body having a transversely-ribbed working or impact face at each side and on its top, said ribs forming cutting edges, substantially as described.

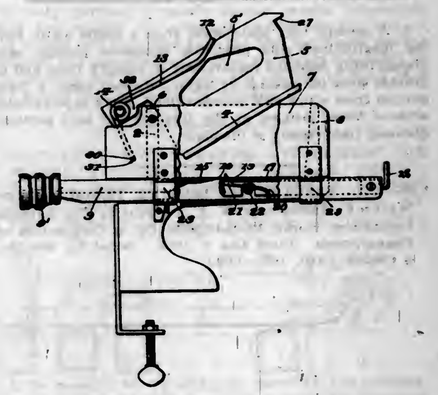
1,397,468. QUARTERING AND CRANK-PIN-TURNING MACHINE. DANIEL H. TEAS, Chicago, Ill., and AUGUSTUS WOOD, Hamilton, Ohio, assignors to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Original application filed May 8, 1919, Serial No. 295,801. Patent No. 1,370,715, dated Mar. 8, 1921. Divided and this application filed Feb. 11, 1920. Serial No. 357,808. 10 Claims. (Cl. 29—27.)

6. In a machine for quartering locomotive wheels in place on their axles, the combination of a headstock, a tailstock, a boring spindle mounted on the headstock with its axis in the same vertical plane as the wheel axis, a second boring spindle having means at each end for the attachment of a tool, and mechanism mounted on the tailstock for supporting and operating the second spindle at the same level with the wheel axis, the said mechanism to-



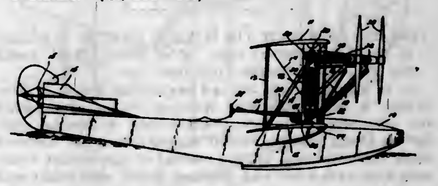
gether with the spindle being reversible end for end and movable to either the back or the front of the tailstock.

1,397,469. SLICING-MACHINE. JOSEPH DANIEL VAUGHN, Salt Lake City, Utah. Filed Oct. 29, 1919. Serial No. 334,146. 1 Claim. (Cl. 146—7.)



In a slicing, chipping and comminuting device, a container, a cover therefor, a sliding bottom in said container, a stationary knife secured in said bottom, an adjustable knife carried by said bottom and properly spaced from said stationary knife, said adjustable knife being formed with slots and with a contiguous downward bent portion forming a guide, a rod mounted below said adjustable knife and a supplemental knife mounted upon said rod and having its cutting teeth projecting up through the slots of said adjustable knife.

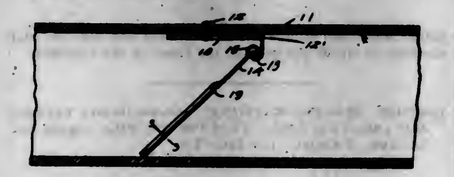
1,397,470. HYDROPLANE. ROBERT EMMET VENTRESS, Sr., Mobile, Ala. Filed Nov. 16, 1920. Serial No. 424,424. 3 Claims. (Cl. 244—14.)



1. In an aeroplane including a body and spaced wings, pairs of uprights extending between the wings and secured thereto, a plurality of arm members journaled between

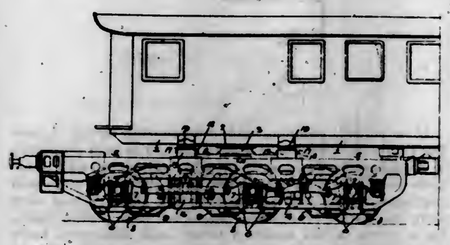
the upright, means for swinging said arm members simultaneously, a shaft rotatable within each arm member, a propeller on each shaft, and means for driving said shafts, comprising a vertical shaft journaled between each pair of uprights, a bevel gear on the upper end of each last named shaft, a transverse shaft upon which said arm members are secured, bevel gears on said transverse shaft meshing with said first named gear, and a bevel gear on each first named shaft meshing with said pair of gears.

1,397,471. TILE AND SEWER TRAP. WILLIAM WALKER, Fairbury, Ill. Filed May 18, 1921. Serial No. 470,733. 3 Claims. (Cl. 182—9.)



1. A conduit trap plate made from a single blank having longitudinal slits providing elongated prongs, said prongs being deflected transversely to rigidify them and to provide slots for passage of water between them, a plate portion from which said prongs extend, and a substantially arcuate hinge member at the free edge of said portions disposed transversely of the plate.

1,397,472. ELECTRIC-LOCOMOTIVE TRUCK. ALLEN WALLACE, Moorestown, N. J., assignor to The Baldwin Locomotive Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 6, 1921. Serial No. 490,336. 4 Claims. (Cl. 105—113.)



1. The combination in an electric locomotive truck of the three axle type in which each axle is independently driven by a motor, of a center bearing located at one side of the center axle to balance the truck; and an H-shaped bolster frame carrying the center frame and mounted on the side frames of the truck.

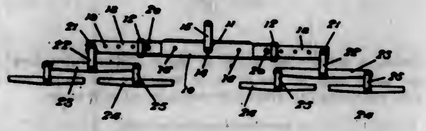
1,397,473. GAS AND AIR MIXING DEVICE. CHARLES H. WERLIN, Columbus, Ohio. Filed June 7, 1920. Serial No. 386,954. 5 Claims. (Cl. 158—119.)

1. In a proportional air and gas mixing device, a valve casing, a valve rotatably mounted within said casing for governing fuel flow therethrough, a mixing shell having an air opening formed therein threadedly mounted upon the outlet end of said casing, an air shutter rotatable with said valve and disposed within said mixer and operable upon the rotation of said valve to increase or decrease the effective area of said air opening, a slidable sleeve mounted upon said mixer and operable in conjunction with said shutter to control the effective area of said opening, and locking means for retaining said mixer in various positions of circumferential adjustment with



respect to said air shutter, whereby the effective operation of said shutter in opening or closing said air opening may be retarded or accelerated.

1,397,474. DRAFT-EVENER. CHALMERS A. WEST, Mangum, Okla. Filed June 25, 1920. Serial No. 391,667. 2 Claims. (Cl. 278—8.)



1. A draft evener of the character described, comprising a tubular evener bar having an aperture midway between its ends, apertures between said aperture and ends of the bar and other apertures adjacent to the ends of said bar, an extension slidable in each end of said bar and having a longitudinal series of apertures to register simultaneously with the corresponding second and third named apertures of the bar, means engageable in the apertures of the extensions and the second and third named apertures of the bar for the connection of double and swingle trees and for securing the extensions to the bar, and coupling means engageable through the first and second named apertures and corresponding apertures of said extensions.

1,397,475. PICKER. HORATIO G. WEST, Harrisville, R. I. Filed Apr. 10, 1920. Serial No. 372,802. 1 Claim. (Cl. 139—21.)



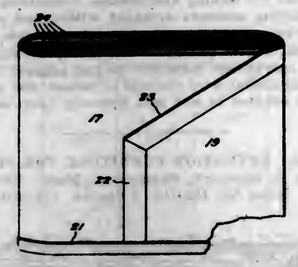
A picker comprising a body having its upper portion formed with a bore counterbored throughout the major portion of its length, a removable bearing sleeve disposed within said counterbore and adapted to slide upon a guide rod, the lower end of the body being formed with a head adapted to engage a shuttle, said sleeve being provided at its uppermost and lowermost points with alined threaded holes, the upper portion of the body being provided with a threaded socket registering with the lowermost of the said holes, the uppermost portion of the body being formed with a threaded opening registering with the uppermost of said threaded holes, a screw threaded through the lower-most hole in the sleeve and engaging within said socket, access to said screw being had through the uppermost hole in the sleeve and the last named hole in the body, and a second screw threaded into the last named hole and engaging within the uppermost hole in the sleeve.

1,397,476. ADVERTISING NOVELTY. ERNEST S. WILSON, Garrison, Iowa. Filed June 11, 1920. Serial No. 388,259. 1 Claim. (Cl. 40—86.)



A device of the class described comprising a casing provided with an elongated opening in one side, having an open end, and a pair of spaced openings in the opposite closed end thereof, a cover hingedly connected to one side of said casing and provided with a spring cage adapted to engage the opposite side and close the open end of said casing, a partition disposed in said casing adjacent said open end and provided with a pair of spaced openings in alinement with the openings in said casing, a tube secured to said partition and arranged longitudinally in said casing, a pair of headed rollers arranged on opposite sides of said tube and extending through the openings in said partition and in said casing, and a pair of operating handles secured to the outer ends of said rollers.

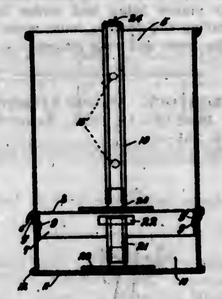
1,397,477. RECORD-ENVELOP. FRANK WOKOUN, Baltimore, Md. Filed Sept. 11, 1920. Serial No. 409,521. 2 Claims. (Cl. 229—72.)



1. A record envelop formed from a single piece of sheet material having its side edges folded back upon themselves in opposite directions, the sheet being subsequently folded longitudinally to define two similar contacting portions, of identical size and shape, said folded portions being subsequently scored transversely along a plurality of equi-distant lines to define a plurality of panels, and the successive panels being folded upon said lines successively whereby to define a plurality of entirely separate compartments, the last panel having its edges secured upon the superposed panels.

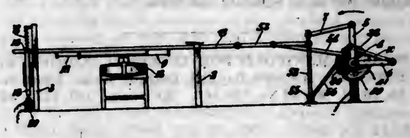
1,397,478. FLOUR-SIFTER. ANNABELLE F. ZOOK, Lewistown, Mont. Filed Feb. 1, 1921. Serial No. 441,620. 2 Claims. (Cl. 83—60.)

1. In a flour sifter, a body portion having its lower edge turned in to provide a groove, a sieving member disposed within the groove, a collar having a flange disposed within the groove and adapted to retain the sieving member in the groove, a lower section having openings and carrying a sieving member, pins carried by the collar and adapted to be positioned in the openings for securing the lower section to the body portion, a support secured to



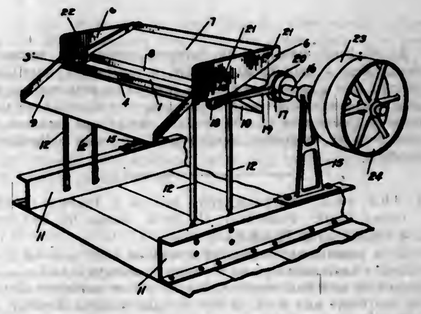
the body portion, a handle having pivotal connection with the support, an agitating member on one end of the handle and operating over the first mentioned sieving member, and an agitating member removably connected to the opposite end of the handle and adapted to move over the second mentioned sieving member.

1,397,479. VIOLIN-PLAYING ATTACHMENT FOR PIANOS, PIPE-ORGANS, OR SIMILAR INSTRUMENTS. DAVID R. ADAMSON, Brooklyn, N. Y. Filed Mar. 11, 1916, Serial No. 83,561. Renewed Apr. 18, 1921. Serial No. 462,343. 9 Claims. (Cl. 84—326.)



1. In a device of the character described, the combination of a stringed instrument, two bows for operative engagement with the same string thereof, means for moving said bows in opposite directions, and means for causing both of said bows to engage said string but only one of said bows to engage with said string at a time.

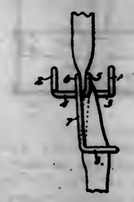
1,397,480. ORE-SEPARATOR. GEORGE W. ARNOLD, Denver, Colo. Filed Nov. 6, 1920. Serial No. 422,198. 4 Claims. (Cl. 83—88.)



1. In a separator of the class described, the combination with a deck having front and rear riffles, an inclined apron

having a vertical depending flange positioned between the rifles, means whereby the apron and thus the flange can be adjusted vertically or horizontally toward or away from either rifle and toward or away from the deck, said flange serving to separate the deck space into front and rear planes, communication between the front and rear planes being had under the flange, and means for vibrating the deck to cause wave movements of the water in the front and rear planes.

1,397,481. PINCHCOCK. WALTER SANFORD AVERY, Knoxville, Tenn. Filed Oct. 18, 1920. Serial No. 417,631. 2 Claims. (Cl. 251—5.)



1. A pinchcock comprising a single piece of wire bent upon itself to form a pair of parallel jaws, a spring holding the jaws together and terminating in a rigid tube-receiving portion positioned transversely thereof, and a pair of handles in parallelism with the spring and jaws and in alinement with the jaws, said spring and jaws so arranged that a movement of the handles toward one another serves to separate the jaws.

1,397,482. MANIFOLD FOR INTERNAL-COMBUSTION ENGINES. ANDREW BACHLE, Detroit, Mich. Filed Nov. 15, 1919. Serial No. 338,167. 5 Claims. (Cl. 123—52.)



1. An inlet manifold for internal combustion engines, comprising a cylindrical conduit, a stationary partition therein, and a member rotatably adjustable with respect to said stationary partition for enlarging and diminishing the cross-sectional area of said conduit, the axis of rotation of said member extending longitudinally of said cylindrical conduit.

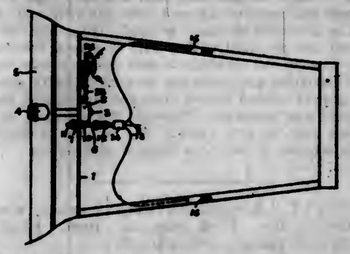
1,397,483. MONUMENT. ROLLIE A. BROWN, Pacific Grove, Calif. Filed Mar. 10, 1919. Serial No. 281,791. 4 Claims. (Cl. 72—7.2.)

1. A monument comprising a wooden body portion providing a base member and a separate upright member supported by said base member, sheets of non-corrodible metal on the front and back of the upright wooden member, a sheet of non-corrodible metal covering the top and sides of said upright wooden member and having flanges pinned to the front and back metal sheets and to the wooden upright member, and sheets of non-corrodible metal covering



the base wooden member, the top sheets of the metal covering of the base member pinned to the latter.

1,397,484. SYSTEM OF LOCKING AUTOMOBILES. THOMAS J. COO, Toronto, Ontario, Canada. Filed July 5, 1919. Serial No. 306,696. 1 Claim. (Cl. 180—82.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



A means for locking automobiles, comprising a plurality of locking members arranged within and adapted to seal the engine inclosure, flexible wire controls connected with each of said locking members, a manually operable member operatively connected to and adapted to operate all of said flexible wire controls in unison, and a combination lock adapted to lock said manually operable member.

1,397,485. EXTENSION FURNITURE FOR PRINTERS. HARRY H. HANCOCK, Swampscott, Mass. Filed Oct. 6, 1920. Serial No. 415,013. 5 Claims. (Cl. 101—402.)



1. Extension furniture for printers constituting a complete article of manufacture of a size adapted for use in a chase, comprising two elongated mutually engaged counterpart members, each of said members having at adjacent vertical walls a longitudinal recess and a longitudinal under-cut groove in the inner wall of said recess, and said groove providing a longitudinal lip, said lips being located in said grooves and in contact throughout approximately the longitudinal, central, vertical plane of said furniture.

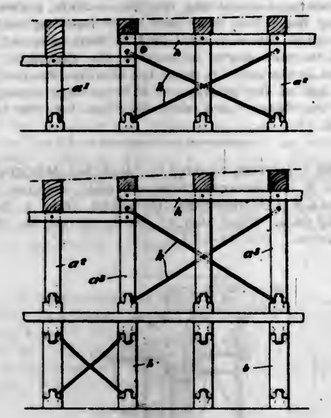
1,397,486. EXTENSION FURNITURE FOR PRINTERS. HARRY H. HANCOCK, Swampscott, Mass. Filed Apr. 7, 1921. Serial No. 459,344. 9 Claims. (Cl. 101—402.)

1. Extension furniture for printers, constituting a complete article of manufacture less than type-high and having a width based on a unit of measurement used by printers, the furniture comprising two elongated members, which are longitudinally extensible the one on the other for substantially their full lengths, each of said members having a larger body portion, and said body portions being at the outer ends of the furniture, and co-acting means at the inner extremity of the smaller portion of one of said members and the inner extremity of the enlarged body



portion of the other of said members, for precluding the longitudinal separation of said members when so extended, the restrictive action of said means being just sufficient to prevent such separation, and means at the meeting surfaces of said members for maintaining the lateral sides of the furniture always in one longitudinal, vertical, plane at any length of the furniture.

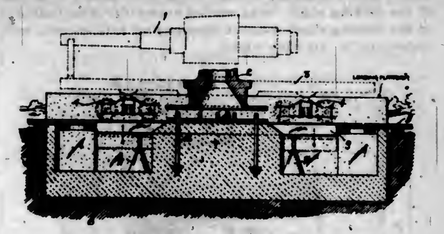
1,397,487. KEEL-BLOCKS FOR BUILDING SHIPS. JOHN MURRAY LEIGHTON, Westminster, London, England, assignor to Concrete Piling Ltd., Westminster, London, England. Filed Nov. 29, 1919. Serial No. 341,405. 5 Claims. (Cl. 61—66.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A keel supporting structure consisting of similar series of keel blocks the blocks of each series increasing in height in constant progression, in combination with series of base blocks of different heights to suit the gradient of the keel relative to the slipway, a series of the keel blocks being laid to give a step by step increase in height followed by repeats of the series supported successively on the series of base blocks.

1,397,488. RAILWAY-ARTILLERY. GUSTAVE R. LUKESH, U. S. Army. Filed Sept. 5, 1919. Serial No. 321,995. 7 Claims. (Cl. 89—40.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

7. In combination a railroad track, an emplacement over which the track passes, a car adapted to travel over said track, a gun carrying mount disposed on said car, and means for lowering the car with relation to the mount to



place the latter in load supporting position on said emplacement.

1,397,489. METHOD OF AND APPARATUS FOR GLUING SHEETS EDGE TO EDGE. GEORGE R. MEYERCORD, Chicago, Ill., assignor to Haskelite Manufacturing Corporation, a Corporation of New York. Filed May 8, 1920. Serial No. 379,770. 12 Claims. (Cl. 144—281.)



1. In a machine of the character described, a flat work support yieldable in the downward direction under pressure, a clamping element for holding a sheet on said support, a second clamping element lying above said support, and actuating means constructed and arranged to move the latter element up and down and simultaneously move it from and toward the first clamping element.

1,397,490. INCLINOMETER. ANTONIO PERADOTTO, Turin, Italy. Filed Oct. 18, 1920. Serial No. 417,828. 6 Claims. (Cl. 33—206.)

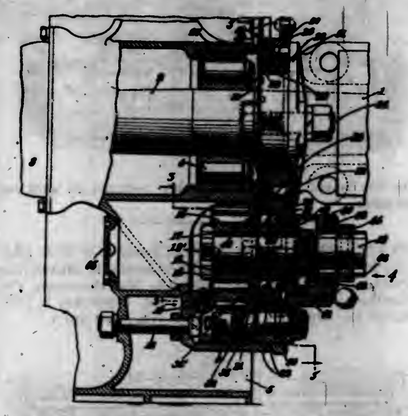


1. An inclinometer, comprising a transparent hollow globe having indicia visible on its outer surface; a neck rigidly secured to said globe and sealed at its outer end; a conical nipple in the inner end of said neck having openings in its apex and base communicating, respectively, with the interior of the neck and the interior of the globe; a transparent, expansible and contractible liquid filling said globe and extending into said nipple; and an indicating element for coöperation with said indicia suspended in the liquid in said globe.

1,397,491. DRIVING MECHANISM FOR MOTOR-VEHICLES. VIGGO V. TORBENSEN, Cleveland, Ohio, assignor to The Torbensen Axle Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 28, 1918. Serial No. 237,040. 17 Claims. (Cl. 74—7.)

4. In driving mechanism for vehicles, the combination of a supporting axle, a traction wheel thereon, a driving

shaft for said wheel, gearing at the outer end of said driving shaft by means of which the driving shaft drives said wheel, said shaft and gearing being constructed to permit of the driving shaft being moved outwardly longitudinally of the driving shaft without disengaging said gearing with respect to the traction wheel.



7. In driving mechanism for vehicles, the combination of a traction wheel, an axle therefor, an internal gear rigid with the wheel, a driving shaft, differential gearing with which the inner end of said shaft has a slidable driving connection, a pinion geared to said internal gear for driving the latter, and a sleeve supporting said pinion independently of the driving shaft, said pinion being detachably interlocked with said shaft whereby the shaft drives the pinion but the shaft may be shifted axially of the pinion to remove it from interlocking engagement with the differential gearing without disturbing the position of the pinion.

1,397,492. AUTOMOBILE-ENGINE FUEL-SUPPLY. JOHN GOOD, Garden City, Long Island, N. Y., assignor to Good Inventions Co., New York, N. Y., a Corporation of New York. Filed July 14, 1920. Serial No. 396,242. 1 Claim. (Cl. 158—36.)

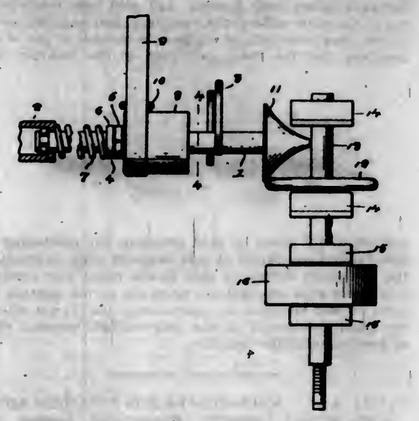


In an internal combustion engine the combination with two liquid fuel float chambers each having a fuel inlet duct, an outlet duct to the engine and a float and a valve controlled by the float to control the inlet duct, of a single valve member for positively closing both the inlet duct and the outlet duct of each chamber substantially simultaneously and the ducts of the two chambers alternately.

1,397,493. PYROXYLIN SOLVENT. ROWLAND BRITTAIN MITCHELL, Athol, Mass., assignor to Athol Manufacturing Company, Athol, Mass., a Corporation of Massachusetts. Filed Aug. 21, 1920. Serial No. 405,053. 4 Claims. (Cl. 134—79.)

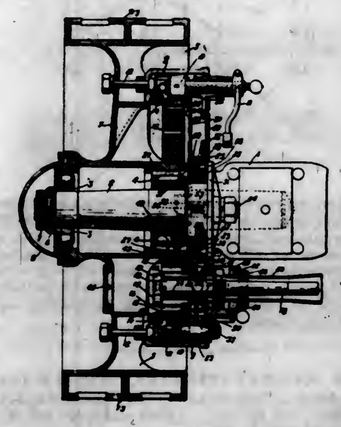
1. A solvent for pyroxylin containing ethyl propionate and toluol.

1,397,494. TRANSMISSION MECHANISM. LEON B. STRONG, Livingston, Mont. Filed Sept. 26, 1919. Serial No. 326,433. 1 Claim. (Cl. 74—26.)



A transmission mechanism comprising a yieldably supported drive shaft, a cone carried by one end thereof, a driven shaft arranged at a right angle to the drive shaft, a disk carried by the second mentioned shaft and normally engaging that portion of the cone of greatest diameter, spaced bearings supporting the driven shaft, a sleeve surrounding the latter mentioned shaft between said bearings, a spiral thread carried by said shaft, a spiral groove formed in said sleeve to receive the thread, a pulley mounted on the sleeve between the bearings, flanges formed on the hub of the pulley, and ball bearings arranged between the flanges and said bearings for the purpose specified.

1,397,495. MOTOR-VEHICLE DRIVING MECHANISM. VIGGO V. TORBENSEN, Cleveland, Ohio, assignor to The Torbensen Axle Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 17, 1918. Serial No. 235,085. 19 Claims. (Cl. 74—7.)

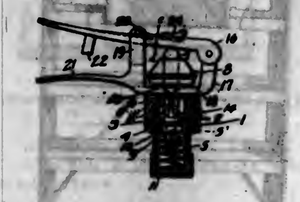


2. In a motor vehicle, the combination of a wheel, an internal driving gear therefor, a pinion driving said gear, a shaft driving said pinion, said gear and pinion being inclosed on one side by a part of the wheel structure, a plate for inclosing the other side, a packing forming a running joint between the plate and wheel structure, and means yieldingly pressing said plate toward the wheel.

REISSUES.

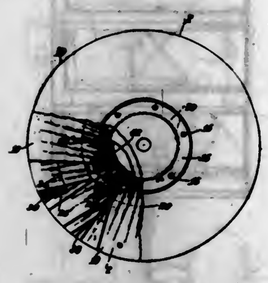
15,224. [WITHDRAWN.]

15,225. **SELF-CLOSING TAP.** HAROLD JARVIS, Toronto, Ontario, Canada. Filed June 1, 1920. Serial No. 385,852. Original No. 1,314,195, dated Aug. 26, 1919. Serial No. 189,062, filed Aug. 31, 1917. 5 Claims. (Cl. 251—134.)



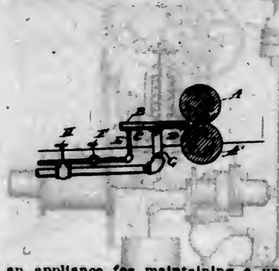
2. In a self-closing tap, a unitary body having an integral internal annular shoulder presenting a flat valve seat with an opening therethrough, and such body having a chamber communicating with the seat and the chamber having an entrance with closure; a valve stem having a valve head, the entrance through the chamber permitting the passage of the valve head, such valve head presenting a flat annular face to come into flat contact with the face of the shoulder and adapted to close said opening, said stem passing through the opening in the valve seat and having a portion adjacent to the valve head adapted to close said opening sufficiently prior to the seating of the valve head to prevent water-hammer, said stem having above the last mentioned portion straight grooves parallel to its axis and with their ends toward the valve head gradually diminished in depth.

15,226. **BUFFING OR POLISHING WHEEL.** ALEXANDER LEVETT, New York, N. Y., assignor to Benjamin D. Riegel, trustee, Fairfield, Conn. Filed Mar. 24, 1921. Serial No. 455,145. Original No. 1,298,522, dated Mar. 25, 1919, Serial No. 249,846, filed Aug. 14, 1918. 11 Claims. (Cl. 51—193.)



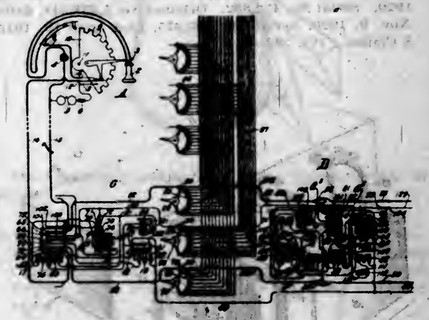
1. A buffing or polishing wheel comprising a hub and a body, the body being made of a helically wound strip of material doubled up widthwise and having its median line gathered and wound around the said hub, the outer raw edge of the strip forming the peripheral face of the wheel.

15,227. **MEANS FOR REGULATING THE TEMPERATURE OF ROLLS.** JAMES G. MAXWELL, Cleveland, Ohio. Filed May 2, 1921. Serial No. 466,208. Original No. 1,366,581, dated Jan. 25, 1921, Serial No. 368,550, filed Mar. 25, 1920. 8 Claims. (Cl. 80—41.)



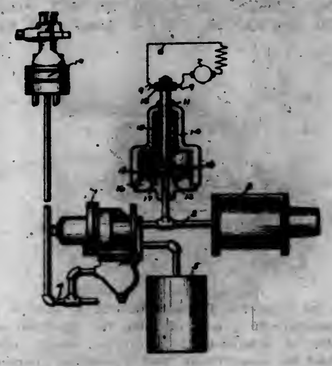
1. In an appliance for maintaining a uniform degree of temperature in a pair of rolls, the combination with said rolls, of independently controlled supply pipes for steam and air respectively, and a common chamber into which said pipes discharge, said chamber provided with an elongated discharge opening adjacent to the contacting surfaces of said rolls.

15,228. **AUTOMATIC TRUNKING SYSTEM.** FRANKLIN J. TRUBY, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 30, 1916. Serial No. 117,816. Original No. 1,122,556, dated Dec. 29, 1914, Serial No. 603,303, filed Jan. 18, 1911. 25 Claims. (Cl. 179—18.)



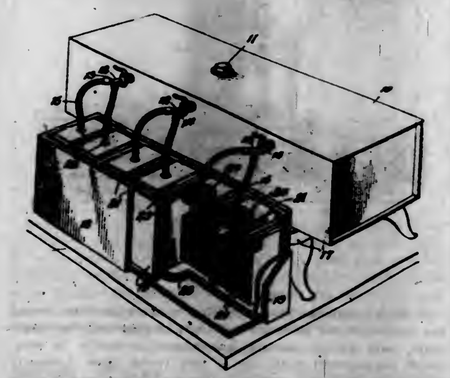
1. In a telephone system, a line, a non-numerical trunking switch, trunk lines for talking purposes leading therefrom, said switch having line wipers normally in electrical engagement with one of said trunk lines, normally open connections between said line and line wipers, a relay having a pair of windings, means for energizing one of said windings to energize said relay to close said normally open connections when connection is made with an idle trunk, and means to energize both of said windings to prevent said relay from operating when said wipers contact with a busy trunk.

15,229. REGENERATIVE BRAKE DEVICE. WALTER V. TURNER, deceased, Wilkinsburg, Pa., by the Westinghouse Air Brake Co., Wilmerding, Pa., a Corporation of Pennsylvania, assignee. Filed June 8, 1920. Serial No. 387,469. Original No. 1,283,979, dated Nov. 5, 1918, Serial No. 177,975, filed June 30, 1917. 12 Claims. (Cl. 303—3.)



5. The combination with means for applying air brakes to a railway train unit and means for applying electric braking to the same unit, the two braking means being each normally separately operable, of an engineer's valve for controlling the air-brakes, and means responsive to the movement of the engineer's valve to the emergency position for rendering the electric braking inoperative.

15,230. METHOD FOR DISMANTLING SECONDARY BATTERIES. RUDOLPH F. STEIN, Minneapolis, Minn., assignor to United States Ordnance Company, Washington, D. C., a Corporation of Virginia. Filed Dec. 23, 1920. Serial No. 432,882. Original No. 1,358,344, dated Nov. 9, 1920, Serial No. 305,375, filed June 19, 1919. 8 Claims. (Cl. 263—5.)



6. The method of loosening the seal on a storage battery, which consists in applying low pressure steam thereto and covering the top of the battery to confine the steam, whereby the seal is gradually softened.

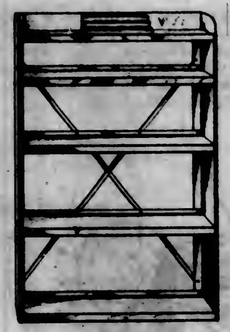
DESIGNS.

59,617. METAL RACK. HARRY L. BEACH, Coshocton, Ohio. Filed Oct. 30, 1919. Serial No. 334,537. Term of patent 7 years.



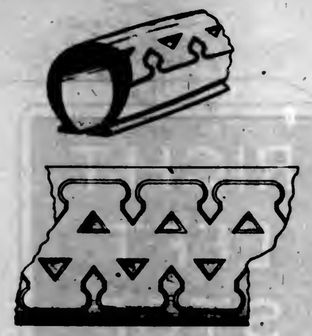
The ornamental design for a metal rack, substantially as shown.

59,618. DISPLAY-STAND. HARRY L. BEACH, Coshocton, Ohio. Filed Aug. 26, 1920. Serial No. 406,242. Term of patent 7 years.



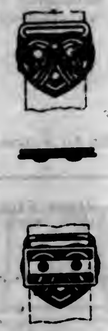
The ornamental design for a display stand, substantially as shown.

59,619. NON-SKID TIRE. WILLIAM A. BRUBAKER, Akron, Ohio, assignor to Harry McCreary, Indiana, Pa. Filed Feb. 10, 1921. Serial No. 444,040. Term of patent 14 years.



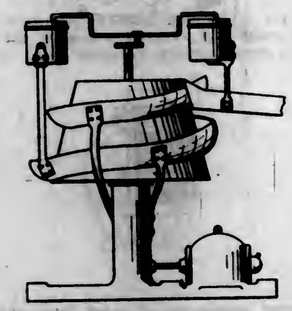
The ornamental design for a non-skid tire, as shown.

59,620. RIBBON-CLASP. SIMON BRUNER, New York, N. Y. Filed July 2, 1921. Serial No. 483,230. Term of patent 3½ years.



The ornamental design for a ribbon clasp, as shown.

59,621. DOUGH-ROUNDER. THOMAS H. CLARK, Des Moines, Iowa. Filed Nov. 26, 1920. Serial No. 426,651. Term of patent 7 years.



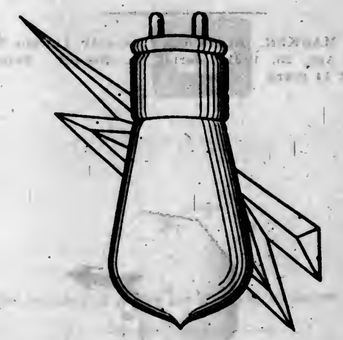
The ornamental design for a dough rounder, as shown.

59,622. BACK PLATE OF A WALL-BRACKET FOR LIGHTING-FIXTURES. HARRY COHN, Brooklyn, N. Y., assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 14, 1921. Serial No. 452,325. Term of patent 7 years.



The ornamental design for a back plate of a wall bracket for lighting fixtures, as shown.

59,623. BADGE, BUTTON, OR PIN. ALFRED P. DANIEL, Houston, Tex. Filed June 20, 1921. Serial No. 479,139. Term of patent 3½ years.



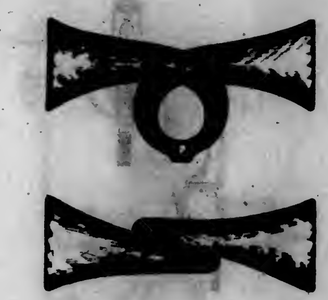
The ornamental design for a badge, button, or pin as shown.

59,624. ATOMIZER-HEAD. THOMAS A. DE VILBISS, Toledo, Ohio, assignor to The De Vilbiss Manufacturing Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 12, 1920. Serial No. 358,148. Term of patent 3½ years.



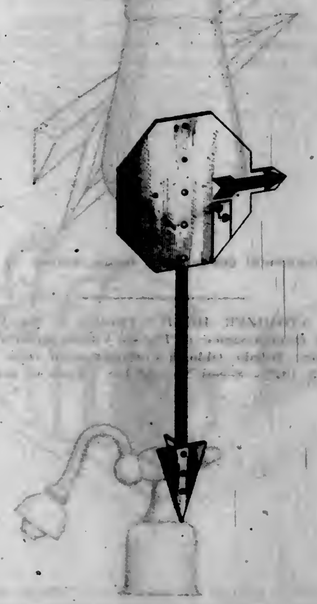
The ornamental design for an atomizer head substantially as shown.

59,625. SOUND-AMPLIFIER. CHARLES J. DOBER, Brooklyn, N. Y. Filed Aug. 30, 1921. Serial No. 497,064. Term of patent 7 years.



The ornamental design for a sound amplifier as shown.

59,626. MARKER. ALEXANDER J. DUNLAP, Lincoln, Nebr. Filed Apr. 25, 1921. Serial No. 464,461. Term of patent 14 years.



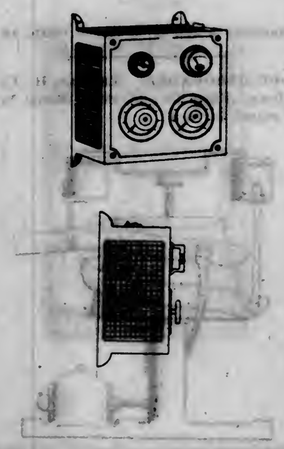
The ornamental design for a marker as shown.

59,627. SIGNAL FOR AUTOMOBILES. LLOYD M. DUNKEY and HERBERT J. MONTGOMERY, Franklin, Pa. Filed June 20, 1921. Serial No. 481,401. Term of patent 7 years.



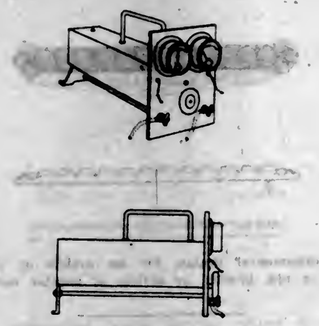
The ornamental design for a signal for automobiles, as shown.

59,628. RECTIFIER. JAMES KNOX ELDERKIN, Newark, N. J. Filed June 1, 1921. Serial No. 474,264. Term of patent 7 years.



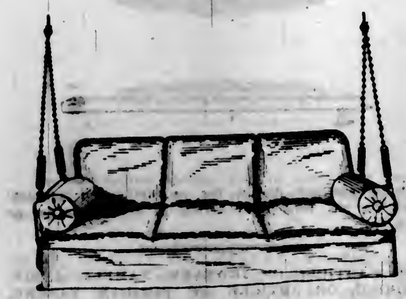
The ornamental design for a rectifier, as shown.

59,629. BATTERY-TESTER. JAMES KNOX ELDERKIN, Newark, N. J. Filed June 1, 1921. Serial No. 474,265. Term of patent 7 years.



The ornamental design for a battery tester, as shown.

59,630. HAMMOCK. BENJAMIN B. ENGLANDER, Brooklyn, N. Y., assignor to Englander Spring Bed Company, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 10, 1920. Serial No. 423,196. Term of patent 14 years.



The ornamental design for a hammock substantially as shown.

59,631. EMBLEM, BADGE, STICKPIN, OR SIMILAR ARTICLE. HAROLD G. ESSAYAN, Providence, R. I. Filed June 17, 1921. Serial No. 478,441. Term of patent 3½ years.



The ornamental design for an emblem, badge, stickpin or similar article as shown.

59,632. SPOON-HOLDER. JOHN EUGENE FRIENTAS, Milford, Ohio. Filed Mar. 14, 1921. Serial No. 452,328. Term of patent 3½ years.



The ornamental design for a spoon holder as shown.

59,633. BUCKLE. LESLIE H. FISHEL, New York, N. Y. Filed June 7, 1919. Serial No. 302,609. Term of patent 7 years.



The ornamental design for a buckle, as shown.

59,634. BUCKLE. LESLIE H. FISHEL, New York, N. Y. Filed June 7, 1919. Serial No. 302,610. Term of patent 7 years.



The ornamental design for a buckle, as shown.

59,635. BUCKLE. LEWIS H. FISHEL, New York, N. Y. Filed June 7, 1919. Serial No. 302,611. Term of patent 7 years.





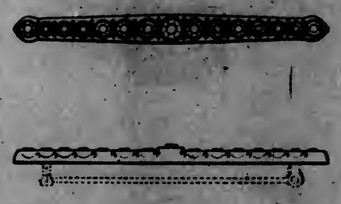
The ornamental design for a buckle as shown.

59,636. ARTICLE OF JEWELRY—NAMELY, A PIN, BROOCH, OR ARTICLE OF SIMILAR NATURE. HENRY W. FISHEL, New York, N. Y. Filed Oct. 16, 1919. Serial No. 331,173. Term of patent 7 years.



The ornamental design for an article of jewelry, namely, a pin, brooch, or article of similar nature as shown.

59,637. ARTICLE OF JEWELRY—NAMELY, A PIN, BROOCH, OR ARTICLE OF SIMILAR NATURE. HENRY W. FISHEL, New York, N. Y. Filed Oct. 16, 1919. Serial No. 331,174. Term of patent 7 years.



The ornamental design for an article of jewelry, namely, a pin, brooch, or article of similar nature as shown.

59,638. ARTICLE OF JEWELRY—NAMELY, A PIN, BROOCH, OR ARTICLE OF SIMILAR NATURE. HENRY W. FISHEL, New York, N. Y. Filed Oct. 16, 1919. Serial No. 331,175. Term of patent 7 years.



The ornamental design for an article of jewelry, namely—a pin, brooch, or article of similar nature as shown.

59,639. ARTICLE OF JEWELRY—NAMELY, A PIN, BROOCH, OR ARTICLE OF SIMILAR NATURE. HENRY W. FISHEL, New York, N. Y. Filed Oct. 16, 1919. Serial No. 331,176. Term of patent 7 years.



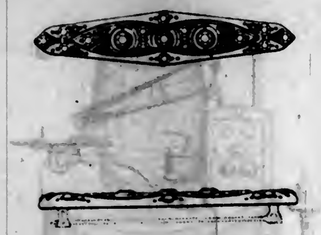
The ornamental design for an article of jewelry, namely—a pin, brooch, or article of similar nature as shown.

59,640. ARTICLE OF JEWELRY—NAMELY, A PIN, BROOCH, OR ARTICLE OF SIMILAR NATURE. HENRY W. FISHEL, New York, N. Y. Filed Oct. 16, 1919. Serial No. 331,177. Term of patent 7 years.



The ornamental design for an article of jewelry, namely—a pin, brooch, or article of similar nature as shown.

59,641. ARTICLE OF JEWELRY—NAMELY, A PIN, BROOCH, OR ARTICLE OF SIMILAR NATURE. HENRY W. FISHEL, New York, N. Y. Filed Oct. 16, 1919. Serial No. 331,178. Term of patent 7 years.



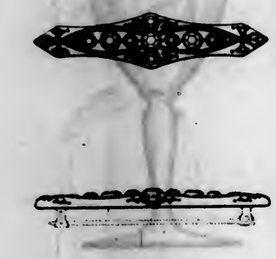
The ornamental design for an article of jewelry, namely—a pin, brooch, or article of similar nature as shown.

59,642. ARTICLE OF JEWELRY—NAMELY, A PIN, BROOCH, OR ARTICLE OF SIMILAR NATURE. HENRY W. FISHEL, New York, N. Y. Filed Oct. 16, 1919. Serial No. 331,179. Term of patent 7 years.



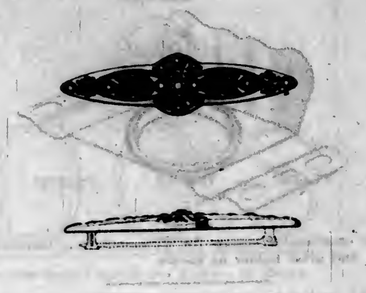
The ornamental design for an article of jewelry, namely—a pin, brooch, or article of similar nature as shown.

59,643. ARTICLE OF JEWELRY—NAMELY, A PIN, BROOCH, OR ARTICLE OF SIMILAR NATURE. HENRY W. FISHEL, New York, N. Y. Filed Oct. 16, 1919. Serial No. 331,180. Term of patent 7 years.



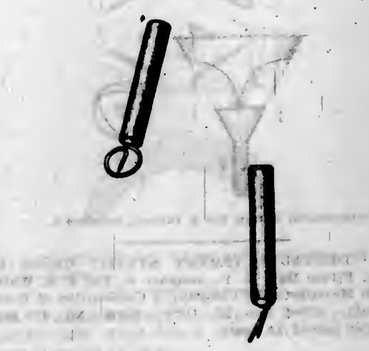
The ornamental design for an article of jewelry, namely—a pin, brooch, or article of similar nature as shown.

59,644. ARTICLE OF JEWELRY—NAMELY, A PIN, BROOCH, OR ARTICLE OF SIMILAR NATURE. HENRY W. FISHEL, New York, N. Y. Filed Oct. 16, 1919. Serial No. 331,182. Term of patent 7 years.



The ornamental design for an article of jewelry, namely—a pin, brooch, or article of similar nature as shown.

59,645. MILK-BOTTLE-CAP REMOVER. EDWARD H. FOOTE, Somerville, Mass. Filed Apr. 15, 1919. Serial No. 290,347. Term of patent 7 years.



The ornamental design for a milk bottle cap remover, as shown.

59,646. SUCTION-BULB. AUGUST E. FRAASS, New Rochelle, N. Y. Filed Nov. 20, 1920. Serial No. 425,583. Term of patent 7 years.



The ornamental design for a suction bulb as shown.

59,647. COMBINATION TOOTHBRUSH, PASTE, AND GLASS HOLDER. KARL FROST and OSWALD JESEL, Chicago, Ill. Filed June 4, 1921. Serial No. 475,110. Term of patent, 7 years.



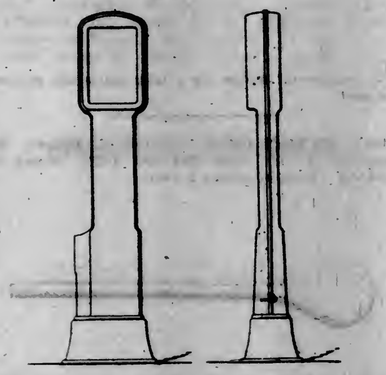
The ornamental design for a combination toothbrush, paste, and glass holder as shown.

59,648. FUNNEL. GEORGE GREGORY, Bay City, Mich. Filed May 24, 1921. Serial No. 472,290. Term of patent 14 years.



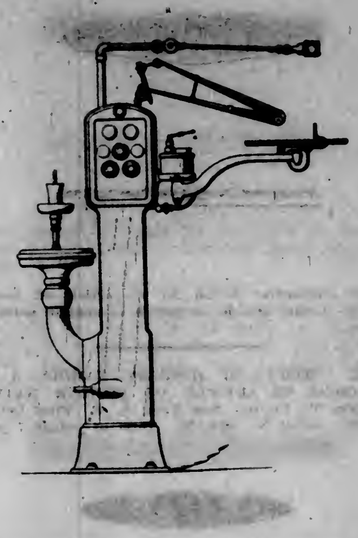
The ornamental design for a funnel, as shown.

59,649. DENTAL-EQUIPMENT STAND. GEORGE D. HECK, Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 27, 1920. Serial No. 433,482. Term of patent 14 years.



The ornamental design for a dental equipment stand, as shown.

59,650. DENTAL-EQUIPMENT STAND. GEORGE D. HECK, Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 29, 1920. Serial No. 433,951. Term of patent 14 years.



The ornamental design for a dental equipment stand, as shown.

59,651. GOBLET. T CLARENCE HEISEY, Newark, Ohio, assignor to A. H. Heisey & Co., Newark, Ohio. Filed Mar. 19, 1921. Serial No. 453,754. Term of patent 14 years.



The ornamental design for a goblet, as shown.

59,652. BEVERAGE-DISPENSER. FREDERICK W. HOLDERLE and CARL L. HOLDERLE, Rochester, N. Y. Filed June 18, 1921. Serial No. 478,755. Term of patent 7 years.



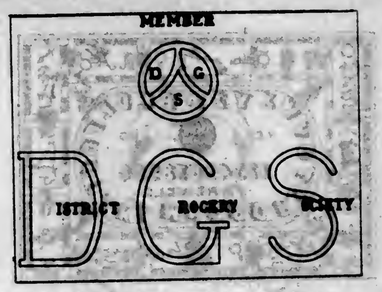
The ornamental design for a beverage dispenser, substantially as shown.

59,653. TIRE. CLAIR G. HOOVER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed June 10, 1921. Serial No. 476,578. Term of patent 14 years.



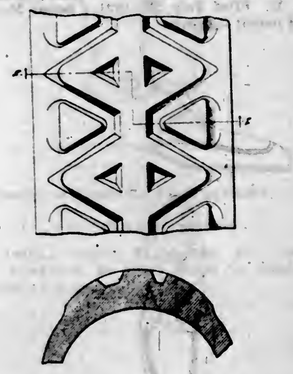
The ornamental design for a tire as shown.

59,654. SIGN. WILLIAM M. HORNSTEIN, Washington, D. C. Filed Mar. 7, 1921. Serial No. 450,488. Term of patent 3½ years.



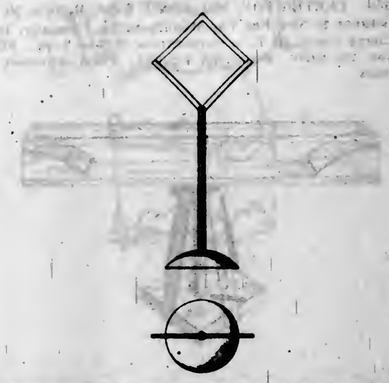
The ornamental design for a sign, as shown.

59,655. AUTOMOBILE-TIRE. JOHN HOTCHKISS, Sebring, Ohio. Filed July 28, 1920. Serial No. 399,627. Term of patent 14 years.



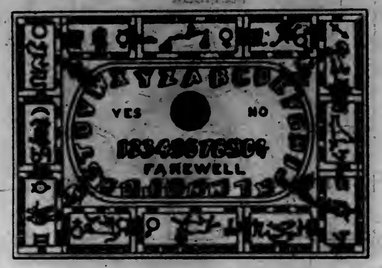
The ornamental design for an automobile tire substantially as shown.

59,656. PAPER-WEIGHT. CLARENCE D. HUDSON, Los Angeles, Calif. Filed June 1, 1920. Serial No. 385,835. Term of patent 3½ years.



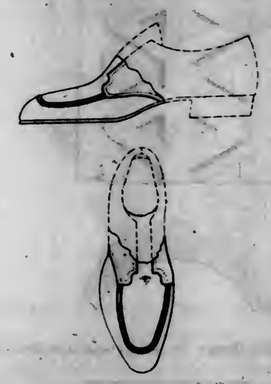
The ornamental design for a paper weight, as shown.

59,657. ASTRAL BOARD. MAX JACOBSON, New York, N. Y. Filed June 10, 1920. Serial No. 388,290. Term of patent 3½ years.



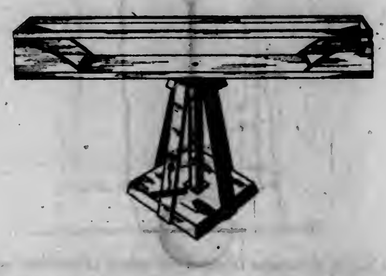
The ornamental design for an astral board, as shown.

59,658. VAMP OF A SHOE. IRVING J. KAUDER, Brooklyn, N. Y. Filed July 23, 1921. Serial No. 487,190. Term of patent 3½ years.



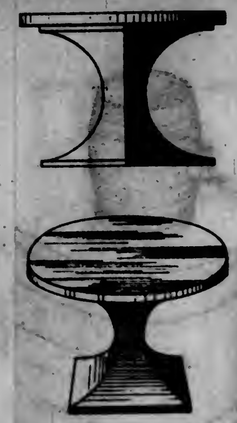
The ornamental design for a vamp of a shoe, as shown.

59,659. TEETER TOY. CHARLES J. KERN, Buffalo, N. Y., assignor to New Era Toy Manufacturing Company, Inc., Cherry Creek, N. Y., a Corporation of New York. Filed Nov. 20, 1920. Serial No. 425,562. Term of patent 3½ years.



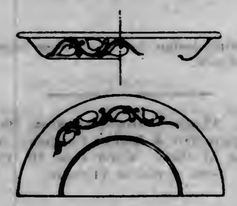
The ornamental design for a teeter-toy, as shown.

59,660. TOY TABLE. CHARLES J. KERN, Buffalo, N. Y., assignor to New Era Toy Manufacturing Company, Inc., Cherry Creek, N. Y., a Corporation of New York. Filed Nov. 20, 1920. Serial No. 425,564. Term of patent 3½ years.



The ornamental design for a toy-table, as shown.

59,661. CANDLE-PLATE. MAX KLEIN, New York, N. Y., assignor to Shapiro & Aronson, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 28, 1920. Serial No. 420,290. Term of patent 3½ years.



The ornamental design for a candle plate, as shown.

59,662. BOTTLE PROTECTING AND CARRYING DEVICE. HECTOR LAUZON, Cincinnati, Ohio. Filed Mar. 14, 1921. Serial No. 452,214. Term of patent 3½ years.



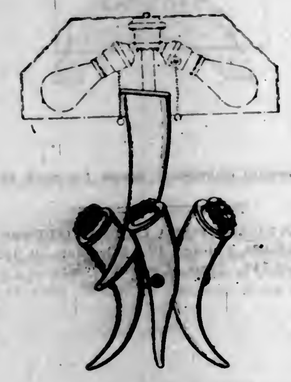
The ornamental design for a bottle protecting and carrying device as shown.

59,663. MEDALLION. ARTHUR J. LAWS, Cleveland, Ohio, assignor to J. E. Townsend, S. P. Fetzer, and W. Benson James, trustees, Lakewood, Ohio. Filed Mar. 30, 1921. Serial No. 457,038. Term of patent 3½ years.



The ornamental design for a medallion, as shown.

59,664. STANDARD. ADALBERT LISKOWACKI, Detroit, Mich. Filed Feb. 25, 1921. Serial No. 447,886. Term of patent 3½ years.



The ornamental design for a standard, substantially as shown.

59,665. RING OR SIMILAR ARTICLE. JOSHUA W. MAYER, New York, N. Y. Filed Sept. 15, 1921. Serial No. 500,981. Term of patent 7 years.



The ornamental design for a ring or similar article, as shown.

59,666. DOLL. FRANK L. MILLER, Jr., Chattanooga, Tenn. Filed Sept. 24, 1921. Serial No. 503,116. Term of patent 14 years.



The ornamental design for a doll as shown.

59,667. DOLL. FRANK L. MILLER, Jr., Chattanooga, Tenn. Filed Sept. 24, 1921. Serial No. 503,117. Term of patent 14 years.



The ornamental design for a doll, as shown.

59,668. BADGE. THORNTON F. MILLER, Pittsburgh, Pa., assignor to Imperial Counsel of the Universe, Princes of Mosera, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 22, 1921. Serial No. 494,442. Term of patent 14 years.



The ornamental design for a badge, substantially as shown.

59,669. TALKING-MACHINE CABINET OR CASING. ALVIN MORELLE, Doylestown, Pa. Filed May 2, 1921. Serial No. 466,243. Term of patent 3½ years.



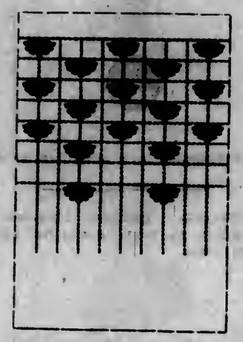
The ornamental design for a talking machine cabinet or casing, as shown.

59,670. CLAMP FOR HOLDING PARTITIONS, &c., IN SHOWCASES AND THE LIKE. JOHN D. MOSER, Hamilton, Ontario, Canada. Filed Feb. 11, 1921. Serial No. 444,304. Term of patent 3½ years.



The ornamental design for a clamp for holding partitions, &c., in showcases and the like, as shown.

59,671. CLOTH. CHARLES OSCAR MUELLER, New York, N. Y., assignor to Lamkay & Seaman, Inc., New York, N. Y., a Corporation of New York. Filed June 20, 1921. Serial No. 479,105. Term of patent 7 years.



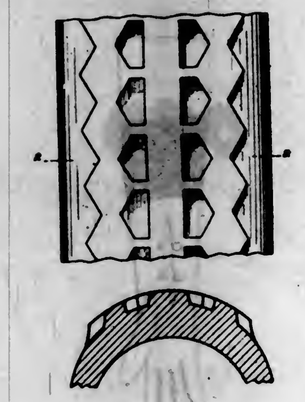
The ornamental embroidery design for cloth as shown.

59,672. CONTAINER FOR A LIQUID-DISPENSER. RUDOLPH MUELLER, Chicago, Ill. Filed Jan. 20, 1921. Serial No. 438,748. Term of patent 7 years.



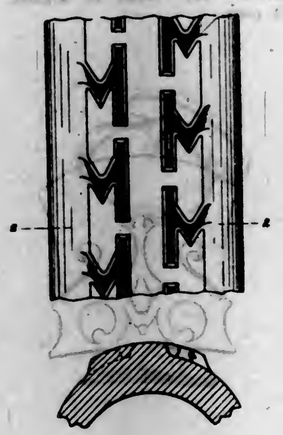
The ornamental design for a container for a liquid dispenser, as shown.

59,673. TIRE-CASING. GEORGE W. ODELL, South Bend, Ind., assignor to International India Rubber Corporation, South Bend, Ind., a Corporation of Delaware. Filed Apr. 3, 1920. Serial No. 371,167. Term of patent 3½ years.



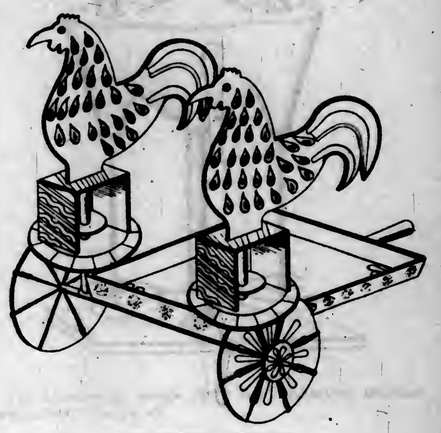
The ornamental design for a tire casing as shown.

59,674. TIRE-TREAD. GEORGE W. ODELL, South Bend, Ind., assignor to International India Rubber Corporation, South Bend, Ind., a Corporation of Delaware. Filed June 14, 1920. Serial No. 389,029. Term of patent 3½ years.



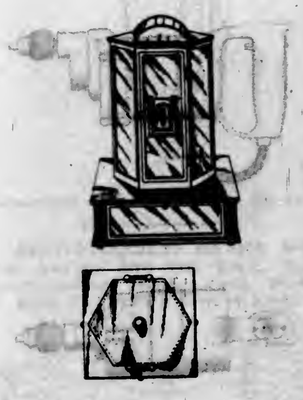
The ornamental design for a tire tread as shown.

59,675. TOY. JOHN P. ORWIT, Big Bay, Mich. Filed Apr. 18, 1921. Serial No. 462,446. Term of patent 7 years.



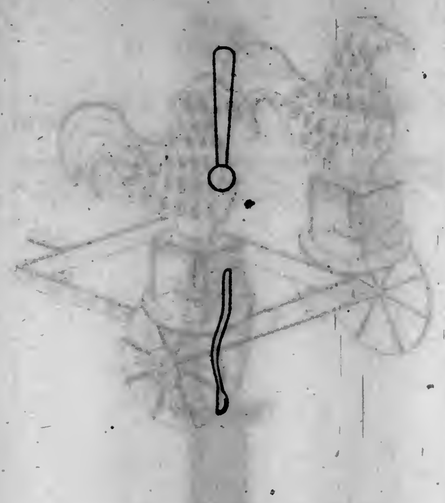
The ornamental design for a toy, as shown.

59,676. CABINET. LYMAN B. PARKER, Miami, Okla. Filed Mar. 14, 1921. Serial No. 452,321. Term of patent 14 years.



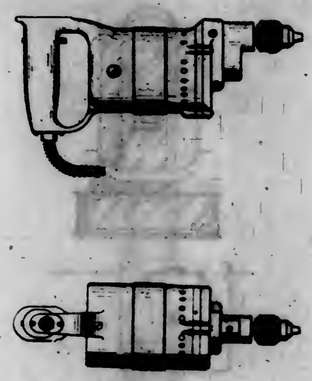
The ornamental design for a cabinet, as shown.

59,677. CLIP. CHARLES H. PATTEN and ROBERT W. OTIS, Providence, R. I. Filed Mar. 16, 1921. Serial No. 452,764. Term of patent 7 years.



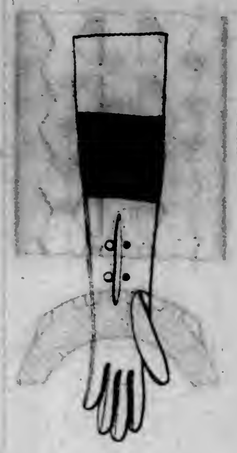
The ornamental design for a clip, as shown.

59,678. ELECTRIC DRILL. ARNO H. PETERSEN, Milwaukee, Wis. Filed June 24, 1921. Serial No. 480,244. Term of patent 7 years.



The ornamental design for an electric drill, as shown.

59,679. GLOVE. EMIL PEYNI, Oswego, N. Y. Filed Mar. 14, 1921. Serial No. 452,318. Term of patent 7 years.



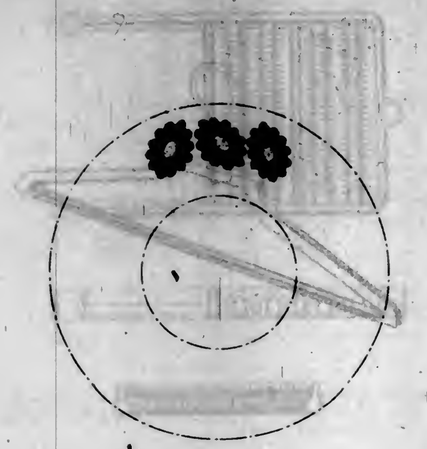
The ornamental design for a glove, as shown.

59,680. BRIDGE FOR STRING MUSICAL INSTRUMENTS. ERNST WALTER PLATE, Philadelphia, Pa. Filed Mar. 21, 1921. Serial No. 454,300. Term of patent 3½ years.



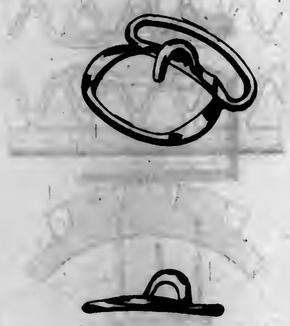
The ornamental design for a bridge for string musical instruments, as shown.

59,681. ORNAMENTATION FOR A CUT-GLASS ARTICLE OF MANUFACTURE. ALBERT F. PRIESTLEY, Philadelphia, Pa., assignor to himself and Bernard Wieners, Copartners, trading as Camden City Cut Glass Co., Camden, N. J. Filed Apr. 13, 1921. Serial No. 461,108. Term of patent 7 years.



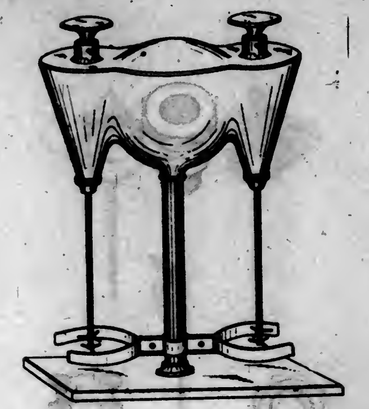
The ornamental design for ornamentation for a cut glass article of manufacture, as shown.

59,682. TRACE-CARRIER. JOHN REICHERT, Racine, Wis. Filed Nov. 27, 1920. Serial No. 426,817. Term of patent 14 years.



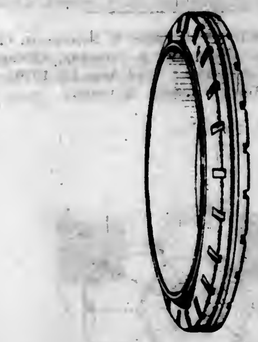
The ornamental design for a trace carrier, substantially as shown.

59,683. LIQUID-AGITATING MACHINE. CARL A. RIETZ, San Francisco, Calif. Filed Mar. 22, 1920. Serial No. 367,884. Term of patent 14 years.



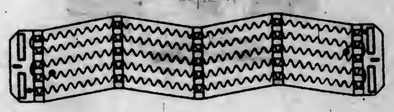
The ornamental design for a liquid-agitating machine substantially as shown.

59,684. CUSHION-TIRE. ARTHUR A. ROBB, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed June 21, 1921. Serial No. 479,387. Term of patent 14 years.



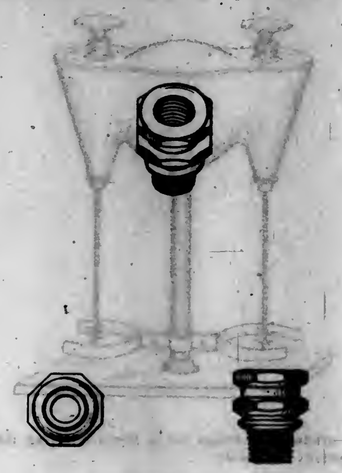
The ornamental design for a cushion tire as shown.

59,685. HEATING-ELEMENT SECTION FOR ELECTRICAL GRATES AND THE LIKE. STANLEY D. ROBINSON, Hamilton, Ontario, Canada. Filed June 28, 1920. Serial No. 392,531. Term of patent 3½ years.



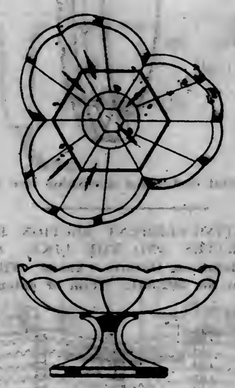
The ornamental design for a heating element section for electrical grates and the like, as shown.

59,686. SPARK-PLUG EXTENSION. KENNET H. SCHWERING, Kansas City, Mo. Filed June 27, 1921. Serial No. 480,940. Term of patent 3½ years.



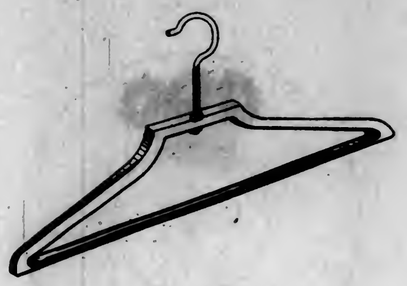
The ornamental design for a spark plug extension, as shown.

59,687. SUNDAE-DISH. ALBERT E. SEHLBACH, Chicago, Ill., assignor to Albert Pick & Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 16, 1920. Serial No. 403,948. Term of patent 3½ years.



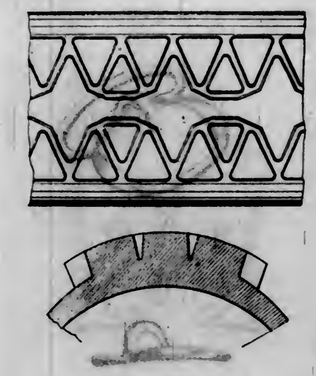
The ornamental design for a sundae dish as shown.

59,688. CLOTHES-HANGER. JOHN CLARK SHANNON, Walsall, England. Filed Oct. 8, 1920. Serial No. 415,700. Term of patent 14 years.



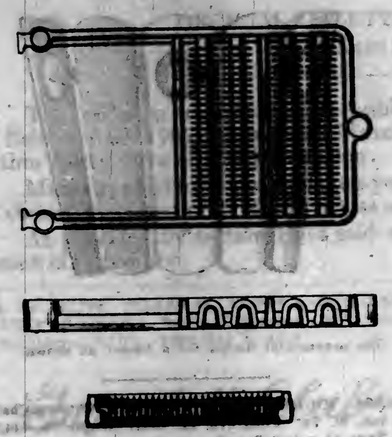
The ornamental design for a clothes hanger, as shown.

59,689. TIRE-TREAD. EDWARD R. SIMMS, Scottdale, Pa. Filed Apr. 22, 1921. Serial No. 463,639. Term of patent 7 years.



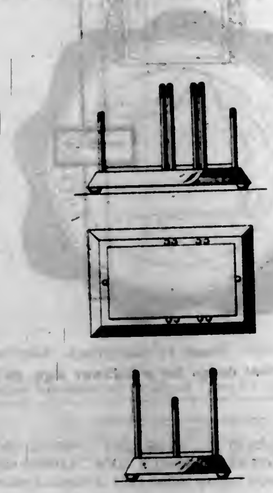
The ornamental design for a tire tread as shown.

59,690. FINNED TUBULAR-BOILER UNIT. WILLIAM L. SIX, Kansas City, Mo. Filed Nov. 15, 1920. Serial No. 424,303. Term of patent 7 years.



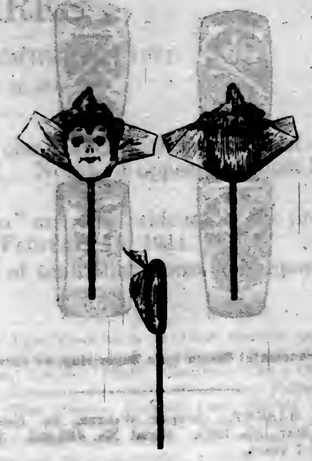
The ornamental design for a finned tubular boiler unit, as shown.

59,691. BUTTER-CUTTING GAGE. FRANK SPRADER, West Allis, Wis. Filed June 24, 1921. Serial No. 480,238. Term of patent 3½ years.



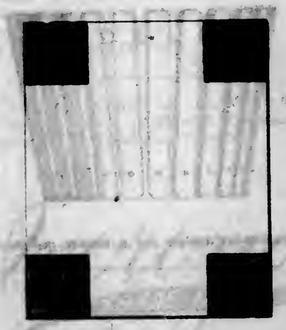
The ornamental design for a butter-cutting gage, as shown.

59,692. PAPER-WRAPPED CANDY KNOWN AS BONNY BONNET POPS. WALKER STEEL, Philadelphia, Pa. Filed Aug. 16, 1921. Serial No. 492,848. Term of patent 14 years.



The ornamental design for paper-wrapped candy known as Bonny Bonnet Pops substantially as shown.

59,693. HIGHWAY ADVERTISING AND DIRECTING SIGN. ROSCOE TENNY, David City, Nebr. Filed Jan. 17, 1921. Serial No. 438,019. Term of patent 7 years.



The ornamental design for a highway advertising and directing sign as herein shown and described.

59,694. FINGER-RING. Anthony H. Ulbrich, Bloomington, Ill. Filed Aug. 19, 1921. Serial No. 493,756. Term of patent 7 years.



The ornamental design for a finger ring, as shown.

59,695. BASKET. Robert Walters, St. Louis, Mo. Filed Mar. 25, 1921. Serial No. 455,653. Term of patent 7 years.



The ornamental design for a basket as shown.

59,696. BASKET. Robert Walters, St. Louis, Mo. Filed Mar. 25, 1921. Serial No. 455,654. Term of patent 7 years.



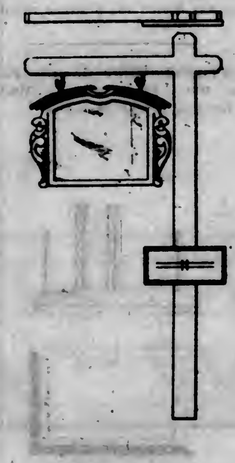
The ornamental design for a basket, as shown.

59,697. BASKET. Robert Walters and Robert Peter Walters, Jr., St. Louis, Mo. Filed Mar. 25, 1921. Serial No. 455,652. Term of patent 7 years.



The ornamental design for a basket as shown.

59,698. HIGHWAY-SIGN. Charles B. Wilson, Charleston, W. Va. Filed Feb. 11, 1921. Serial No. 444,270. Term of patent 7 years.



The ornamental design for a highway sign, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, NOVEMBER 15, 1921.

[PUBLISHED NOVEMBER 21, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 118,790. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Simon, Stevenson and Company, Huntington, W. Va. Filed May 22, 1919.

Guyandotte Club

Applicant disclaims any exclusive right to the word "Club" except in the connection shown.

Particular description of goods.—Coffee.

Claims use since Apr. 16, 1915.

Ser. No. 120,495. (CLASS 10. FERTILIZERS.) Poultry Feed Company, Chicago, Ill. Filed July 12, 1919.



Particular description of goods.—Pulverized Poultry-Manure.

Claims use since on or about June 30, 1919.

Ser. No. 120,776. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) The W. S. Tyler Company, Cleveland, Ohio. Filed July 21, 1919.

HUM-MER

Particular description of goods.—Vibrated-Screen Separating-Machines. The Screen Separating-Machines Upon Which This Trade-Mark is Used Operate on Various Kinds of Material, Such as Ground Bone, Bone-Black, Carbons, Cement, Chalk, Charcoal, Clay, Coal, Coke, Cork, Cornmeal, Fertiliser, Fluor-Spar, Fullers' Earth, Glass, Glue, Granite, Gypsum, Lime, Marble, Mica, Oil-Cake, Ore, Phosphate, Plaster, Quarts, Salt, Sandstone, Sawdust, Shale, Sugar, Starch, Talc, Tankage, Trap-Rock.

Claims use since about Mar. 1, 1919.

Ser. No. 121,330. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) American Enamel Company, Providence, R. I. Filed Aug. 7, 1919.

"Ebonoid"

No claim is made to the exclusive right to the words "Trade Mark" shown on the drawing.

Particular description of goods.—Enamel in the Nature of a Paint for Wood and Metal.

Claims use since July 28, 1919.

Ser. No. 121,331. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) American Enamel Company, Providence, R. I. Filed Aug. 7, 1919.

Ivoryd
TRADE MARK

No claim is made for the exclusive right to the words "Trade Mark" shown in the drawing.

Particular description of goods.—Enamel in the Nature of a Paint for Wood and Metal.

Claims use since July 28, 1919.

Ser. No. 124,405. (CLASS 37. PAPER AND STATIONERY.) EGON HASSINGER, Barcelona, Spain. Filed Oct. 31, 1919.

POLO.

Particular description of goods.—Rubber Erasers.
Claims use since March, 1916.

Ser. No. 128,557. (CLASS 2. RECEPTACLES.) NATIONAL PAPER PRODUCTS COMPANY, San Francisco, Calif. Filed Feb. 18, 1920.

NATIONAL

Particular description of goods.—Paper, Wooden or Metal Dispensing-Cabinets for Providing Paper Towels Free to the User, Corrugated-Paper Boxes, Fiber Cans, and Solid Fiber Shipping-Cases.
Claims use since Feb. 1, 1917, on dispensing-cabinets; since Sept. 1, 1917, on corrugated boxes and containers; since Nov. 1, 1917, on paper cans, and since Jan. 1, 1919, on solid fiber shipping-cases.

Ser. No. 129,837. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE GOHEEN CORPORATION, Wilmington, Del., and Warren, Ohio. Filed Mar. 17, 1920.

INCASED STEELCOAT

No claim is made to the words "Incased Paint" apart from the mark shown.
Particular description of goods.—Paint for Structural Steel.
Claims use since 1914.

Ser. No. 129,977. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. GLEMBY, INC., New York, N. Y. Filed Mar. 20, 1920.

Jean

Particular description of goods.—Hair-Nets.
Claims use since Dec. 1, 1919.

Ser. No. 132,667. (CLASS 20. LINOLEUM AND OILED CLOTH.) THE STANDARD TEXTILE PRODUCTS COMPANY, Youngstown, Ohio, and New York, N. Y. Filed May 19, 1920.

MERITAS THE STANDARD SP TEXTILE PRODUCTS CO. BRAND

No claim is made to the exclusive use of the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Oiled Cloth.
Claims use since Apr. 17, 1920.

Ser. No. 133,098. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WILLIAM N. MORRISON, Los Angeles, Calif. Filed May 29, 1920.

Sur-On

Particular description of goods.—Key-Ring Books.
Claims use since October, 1919.

Ser. No. 133,726. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MARSHALL-WELLS COMPANY, Duluth, Minn. Filed Aug. 2, 1920.

AUTOMADE COASTER

The word "Coaster" is disclaimed apart from the mark shown.
Particular description of goods.—Children's Express-Wagons and Children's Coaster-Wagons.
Claims use since Mar. 1, 1920.

Ser. No. 136,775. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DEPENDO MANUFACTURING COMPANY, Lodi, Calif. Filed Sept. 2, 1920.

SUPERIOR MANUFACTURING CO. INC. LODI CALIFORNIA

No claim is made to the words "Lodi, California" nor to the representation of the pumping plant apart from the mark as shown on the drawing.
Particular description of goods.—Pumps and Pumping Plants.
Claims use since Jan. 1, 1920.

Ser. No. 136,814. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SANITARY DISH WASHING MACHINE COMPANY, Milwaukee, Wis. Filed Sept. 3, 1920.

SANITARY SERVANT

Particular description of goods.—Dish-Washing Machines.
Claims use since Nov. 10, 1919.

Ser. No. 137,611. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HENRY GLASS & Co., New York, N. Y. Filed Sept. 25, 1920.

Triumph

Consisting of the word "Triumph."
Particular description of goods.—Cotton Voiles in the Piece.
Claims use since January, 1913.

Ser. No. 137,615. (CLASS 37. PAPER AND STATIONERY.) JEANNE BLANCHE HURWITZ, Berlin, Germany. Filed Sept. 25, 1920.

Opalographs

Particular description of goods.—Duplicating Machines, Such as Hectographs, Multigraphs, Mimeographs, &c., and Attachments Therefor.
Claims use since Dec. 12, 1910.

Ser. No. 138,433. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN H. FLYNN, Jr., Cincinnati, Ohio. Filed Oct. 16, 1920.

EUREKA

Particular description of goods.—Tackle-Blocks.
Claims use since Feb. 20, 1895.

Ser. No. 138,884. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE WONDER BUILDER TOY CO., Gallipolis, Ohio. Filed Oct. 27, 1920.

Wonder-Builder

No claim being made to the exclusive use of the word "Builder" apart from the mark shown on the drawing.
Particular description of goods.—Building Elements Made of Metal, Used in the Construction of Toy Vehicles and Parts Therefor.
Claims use since July 19, 1920.

Ser. No. 139,870. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IDELLA E. RADCLIFF, Glendale, Calif. Filed Nov. 8, 1920.

IDELL'S TRADE MARK

No claim being made to the words "Trade Mark" apart from the mark shown.
Particular description of goods.—A Compound for Poultry Which Increases Laying and Which Prevents and Removes Roup and Cholera.
Claims use since Aug. 15, 1920.

Ser. No. 140,305. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

ECLIPSE

Particular description of goods.—Piece Goods—Namely, Muslin.
Claims use since 1900.

Ser. No. 140,687. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) KAUFMAN-STRAUS CO., Louisville, Ky. Filed Dec. 6, 1920.

ESTELLE

Particular description of goods.—Tooth, Nail, Hand, and Bath Brushes.
Claims use since Nov. 30, 1905.

Ser. No. 140,689. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) TUSKELOID COMPANY, INC., New York, N. Y. Filed Dec. 6, 1920.

TUSCULOR

Particular description of goods.—Hair, Nail, Tooth, Hat, and Cloth Brushes.
Claims use since July 1, 1916.

Ser. No. 140,692. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) TUSKELOID COMPANY, INC., New York, N. Y. Filed Dec. 6, 1920.

TUSKELOID

Particular description of goods.—Nail-Polishers and Atomisers.
Claims use since July 1, 1916.

Ser. No. 140,693. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) TUSKELOID COMPANY, INC., New York, N. Y. Filed Dec. 6, 1920.

TUSCULOR

Particular description of goods.—Nail-Polishers and Atomisers.
Claims use since July 1, 1916.

Ser. No. 140,694. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) TUSKELOID COMPANY, INC., New York, N. Y. Filed Dec. 6, 1920.

TUSKELOID

Particular description of goods.—Hair, Nail, Tooth, Hat, and Cloth Brushes.
Claims use since July 1, 1916.

Ser. No. 140,697. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) HENRY M. JONES, Chicago, Ill. Filed Dec. 15, 1920.

METABOLMETER

Particular description of goods.—Diagnostic Instruments for Measuring the Rate of Oxygen Consumption.
Claims use since on or about Aug. 15, 1920.

Ser. No. 141,062. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE STANLEY WORKS, New Britain, Conn. Filed Dec. 14, 1920.

STANLEY SW

Particular description of goods.—Butts, Hinges, Door-Holders, Hasps, Latches; Fasts and Fasteners for Securing Window-Sashes, Window-Blinds, Shutters, and the Like; Stays for Doors, Windows, Lids, Desks and Similar Articles; Slides for Desks, Covers, Cabinets, and Similar Articles; Ladder-Joints; Handles for Doors, Drawers, Boxes, Chests, and Similar Articles; Pulls for Doors, Sashes, Screens, Chests and Similar Articles; Bolts for Securing Doors, Windows, and the Like; Shutter-Bars, Trap-Door Rings, Door-Hangers, Sash and Screen Hangers; Lifts for Doors, Sashes, Screens, Chests, and Similar Articles; Transom-Plates, Corner-Irons, Door-Rails, Bar-Holders, Catches, Braces for Stiffening Corners, Stake-Holders, T-Plates, Staples, Hooks, Door-Buttons, Floor-Clips, Metal Washers, Rivet-Burs, Springs for Doors and Windows, Box-Strapping, Metal Fasteners for Wooden Joints, Metal Couplings for Door and Window Screens, Mending-Plates; Brackets—Namely, a Fixture Used as a Support.
Claims use since Nov. 26, 1920.

Ser. No. 141,199. (CLASS 31. FILTERS AND REFRIGERATORS.) THE UTILITY COMPRESSOR COMPANY, Detroit, Mich. Filed Dec. 16, 1920.

UTILITY

No claim is made to the words "Electric Refrigerator" apart from the mark shown.
Particular description of goods.—Artificial Refrigerating Units and Household Refrigerators.
Claims use since on or about Oct. 21, 1920.

Ser. No. 141,126. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) METROPOLITAN-VICKERS ELECTRICAL CO. LTD., London, England. Filed Dec. 31, 1920.

No claim being made to the letters "E" and "C" shown in the drawing separately from the other features.
Particular description of goods.—Steam-Turbines, Power-Transmission Gearing, Steam-Condensers, Pumps of All Kinds, Blowers, Compressors, Steam-Ejectors, Small Condensers, and Drainage-Separators, Air-Extractors, and Winding-Machines.
Claims use since September, 1919.

Ser. No. 141,951. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE FULLER BRUSH COMPANY, Hartford, Conn. Filed Jan. 7, 1921.

Fuller

The shading being for the purpose of denoting red.
Particular description of goods.—Mops; Fiber, Bowl, Scouring, Mat, Clothes, and Washing Brushes; Bristle and Hair, Window, Ice-Chest, Radiator, Bowl, Hearth, Utility, Milk-Bottle, Test-Tube, Percolator, Stove, Shoe, Hair, Clothes, Wall, Shampoo, Flesh and Massage, Dental-Plate, Tooth, and Toothbrush-Refilling Brushes; Pastry and Manicure Brushes; Shower-Bath Brushes, Hat-Brushes, Crumb-Brushes, Phonograph-Brushes, Furniture-Brushes, Hand-Brushes, Automobile-Brushes, Floor-Brushes of the Push-Broom Type, Fiber Brooms, Cotton Daubers, and Dusters.
Claims use since on or about Nov. 1, 1920.

Ser. No. 142,262. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) MUELLER METALS COMPANY, Port Huron, Mich. Filed Jan. 14, 1921.

MUELLER BLUE TIP

The lining expressing the color blue.
Particular description of goods.—Metal (Commercial) Rod Not Fabricated into Finished Articles.
Claims use since Oct. 20, 1920.

Ser. No. 142,263. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) MUELLER METALS COMPANY, Port Huron, Mich. Filed Jan. 14, 1921.

MUELLER RED TIP

The lining expressing the color red.
Particular description of goods.—Metal (Commercial) Rod Not Fabricated into Finished Articles.
Claims use since May 31, 1919.

Ser. No. 142,572. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. J. Weston, Los Angeles and San Bernardino, Calif. Filed Jan. 17, 1921.

E. J. WESTON

WES[illegible]LT SYRUP

No claim is made to the words "Special Malt Syrup" or "Trade Mark Reg. U. S. Pat. Off." apart from the other features of the mark.

Particular description of goods.—Malt-Syrup; the Malt-Syrup is Used for Table Purposes in the Preparation of "Weston's Special Malt Syrup Recipes," Including the Following: "Malt Bread Loaf," "Malt Pudding," "Ginger Bread," and "Coffee Cake."

Claims use since June, 1920.

Ser. No. 142,402. (CLASS 22. BROOMS, BRUSHES, AND DUSTERS.) San Antonio Broom Co., San Antonio, Tex. Filed Jan. 13, 1921.



Particular description of goods.—Toothbrushes, Cloth-Brushes, Hand-Brushes, Hair-Brushes, and Shaving-Brushes.

Claims use since Dec. 18, 1919.

Ser. No. 142,774. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Chas. Steel and Engineering Co., Seattle, Wash. Filed Jan. 26, 1921.

"Samson"

Particular description of goods.—Cranes.

Claims use since Sept. 2, 1917.

Ser. No. 143,111. (CLASS 18. PAINTS AND PAINTING MATERIALS.) Warden Paint and Glass Company, Pittsburgh, Pa. Filed Feb. 2, 1921.



Applicant disclaims the right to the exclusive use of the words "Wear Proof Products" apart from the trade-mark shown in the drawing.

Particular description of goods.—Paste Paints.

Claims use since Nov. 1, 1920.

Ser. No. 143,205. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) James P. Manion, Fort William, Ontario, Canada. Filed Feb. 7, 1921.



Particular description of goods.—A Medical Preparation for Colds, Flu, and La Grippe.

Claims use since September, 1919.

Ser. No. 143,206. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) Francisco G. Riva, Los Angeles, Calif. Filed Feb. 7, 1921.

ASTRA

Particular description of goods.—Automatic Pistols.

Claims use since November, 1919.

Ser. No. 143,263. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) The Angus Co., New York, N. Y. Filed Feb. 9, 1921.

LA PYRAMID

Consisting of the words "La Pyramid."

Particular description of goods.—Ladies' Handbags.

Claims use since Jan. 22, 1921.

Ser. No. 143,484. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) Fiala Arms Company, New York, N. Y. Filed Feb. 11, 1921.



Particular description of goods.—Pistols, Rifles, and Combination Pistols and Rifles.

Claims use since about Jan. 1, 1921.

Ser. No. 143,844. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) Service Motor Truck Company, Wabash, Ind. Filed Feb. 19, 1921.



The drawing is lined to denote the color red.

Particular description of goods.—Motor Trucks.

Claims use since Dec. 1, 1920.

Ser. No. 144,000. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) Panther Rubber Manufacturing Company, Stoughton, Mass. Filed Feb. 24, 1921.

BILLY BOUNCE

Particular description of goods.—Toy Rubber Balls.

Claims use since Aug. 2, 1920.

Ser. No. 144,005. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Unity Cotton Mills, La Grange, Ga. Filed Feb. 24, 1921.

TRIUMPH

Particular description of goods.—Piece Goods—Namely, Duck, Canvas, and Drilling Used for Cots, Tents, Covers, Tarpaulins, Sails, Awnings, Ship-Decks, and Filtration Purposes.

Claims use since Nov. 24, 1920.

Ser. No. 144,072. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) August E. Fraass, New York, N. Y. Filed Feb. 26, 1921.

STRUMENT

Particular description of goods.—Accumeters for Testing Hearing, Adenotomes for Removal of Adenoids, Air-Bags for Treatment of the Ears; Applicators for Applying Medicine to Ear, Nose, Throat, and other Cavities of the Human Body; Anesthesia Apparatus, Anatomical Models for Teaching Anatomy and Demonstrating Surgical Technique, Angiotribes for Clamping Off Blood Vessels; Aspirators for Withdrawing Blood and Secretions from Body During Operations, &c.; Atomizers for Applying Fluid Matter to Patient in Spray Form, Burs for Operating on Any Part of the Human Skeleton, Bistouries for Doing Any Kind of Cutting During Operations, Bougies for Distending Natural Body-Passages; Batteries, Electric, for Therapeutic Purposes and for Illuminating Field of Operation, Also for Lighting Lamps for Diagnostic Purposes; Bronchoscopes for Examining and Operating on Bronchi, Curettes for Cutting and Scraping of Bone and Soft Tissues in Operations, Cannulas for Irrigating Parts of Body for Therapeutical and Diagnostical Purposes; Catheters for Irrigating Parts of Body for Therapeutical and Diagnostical Purposes, Also for Treating Ears by Means of Compressed Air; Compressors for Stopping Flow of Blood During Operations, Chisels for Bone Operations; Clamps for Stopping Hemorrhages, Also for Closing Wounds; Craniochast for Crushing Skull of Infant in Obstetrics; Condensers for Intensifying Light, for Illuminating Field of Operation, and for Treatment; Dissectors for Separating Tissues and Organs from their Natural Seats, Drills for Operating on any Part of the Human Skeleton, Directors for Guiding Knives During Operations, Douches for Irrigating Body-Cavities, Dilators for Distending Natural Body-Passages, Elevators for Separating Tissues and Organs from Their Natural Seats, Eye-Droppers for Applying Fluids to Eyes, Ear-Spouts Used for Irrigating Ears, Evacuators for Drawing Secretions from Any Part of the Body, Esophagoscopes for Examining and Operating on Esophagus, Endoscopes for Examining and Operating on Any Body-Cavity; Forceps Used for Dressing, Cutting,

Breaking, and Crushing During Operations; Gouges for Operations on Bone; Hooks for Retracting and Engaging Tissues of Body, Foreign Bodies, &c.; Hemostats for Stopping Hemorrhages; Headbands for Fastening Reflectors, Headlights, &c., to Head of Operator; Headlights Used by Operator to Illuminate Field of Operation, Hammers Used for Operating with Chisel or Gouge, Irrigators for Irrigating Body-Cavities; Injection-Needles for Applying Medicine, Vaccination, Anesthetizing, &c.; Inhalers for Applying Air in Treatment of Diseases, Inhalers for Applying Medicine to Air-Passages by Means of Air or Steam, Knives for Doing Any Kind of Cutting During Operations; Lancets for Opening Blood Vessels, Abscesses, &c.; Laryngoscopes for Examining and Operating on Human Larynx; Ligature-Carriers Used to Surround Vessels, for Tying Off Blood Vessels, &c.; Ligatures, Surgical Sewing Materials; Mouth-Gags for Keeping Mouth Open During Operations Thereon, Magnifiers for Examining Superficial Parts of Body, Mirrors Used for Examining and Reflecting Light into Cavities, Mallets Used for Operating with Chisel or Gouge, Needle-Holders for Holding Surgical Needles in Sewing Up Wounds, Nebulizers for Application of Fluids in Vapor Form, Perforators for Opening Body-Cavities, Pumps for Compressing Air for Medical Purposes; Packers for Dressing Wounds, &c.; Probes for Sounding Wounds, Passages, and Cavities; Powder-Blowers for Applying Medications in Powder Form, Retractors for Holding Back Edges of Wounds or Opening Body-Passages to Make Them Accessible to Operator, Reamers for Operating on Any Part of the Human Skeleton, Rongeurs for Cutting Bone, Rasps for Removing Bony Structures, Rheostats for Controlling Electric Current Used for Lighting Diagnostic Apparatus; Surgical Scissors for Cutting Tissues, Bandages, &c.; Spatulas for Depressing Tongue and other Soft Parts in Examining and Operating; Suction-Tubes for Drawing Secretions from Any Part of Body and for Withdrawing Fluids and Secretions from Body During Operations, &c.; Suppositors, Abdominal; Snares for Removing Organs and Pathological Structures by Means of Wire Loop, Saws for Operations on Bone, Syringes for Irrigating and Injecting Purposes; Suture-Needles, Surgical, for Closing Up Wounds; Splints for Straightening out Deflected and Broken Parts of Body, Sterilizers for Rendering Instruments and Appliances Sterile by Boiling or Placing in Disinfecting Solutions, Stethoscopes for Auscultation (examination of Body, Specula for Holding Back Edges of Wounds or Opening Body-Passages to Make Them Accessible to Operator; Searchers for Sounding Wounds, Passages, and Cavities; Scoops for Cutting and Scraping of Bone and Soft Tissues in Operations; Sounds for Sounding Wounds, Passages, and Cavities; Suction Apparatus Used for Drawing Blood or Secretions from Body, Also Used for Treating Diseases; Spuds for Depressing Tongue and other Soft Parts in Examining and Operating, Trocars for Making Artificial Openings into Cavities for Purpose of Withdrawing of Fluids and Irrigating, Tongue-Depressors for Holding Down Tongue When Operating in Mouth, Trephines for Operating on Any Part of the Human Skeleton, Tracheotomes for Opening Windpipe from the Outside, Tuckers for Shortening Eye-Muscles; Tenacula for Retracting and Engaging Tissues of Body, Foreign Bodies, &c.; Tonsillotomes for Removing Tonsils, Transformers Used in Connection with Electromedicinal Apparatus, Tracheal Tubes Used After Windpipe has been Opened Surgically, and Medical and Surgical Furniture, Such as Operating-Tables, (General;) Examining-Tables, Instrument-Tables, Bottle-Stands, Irrigator-Stands, Basin-Stands, Immersion-Stands, Stools for Operating-Room, Waste-Receptacles, Wall-Stands, Sponge-Racks, Electric-Light Stands, Observation-Stands, Instrument-Cabinets, Instrument and Dressing Cabinets, Wall-Cabinets, Laboratory-Tables, Dressing-Containers, Towel-Warmers, Blanket-Warmers, Wheel-Stretchers, Dressing-Carriages, Dressing-Tables, Nurse-Desks, Chart-Holders, Wall-Shelves, Dish-Carriage, Food-Car, Linen-Hamper, Specialists' Cabinets, Specialists' Chair, Office-Stools, Treatment-Tables, Office-Spittoons, and Specialists' Tables.

Claims use since Jan. 1, 1919.

Ser. No. 144,144. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE MEASUROGRAPH COMPANY, St. Louis, Mo. Filed Feb. 28, 1921.



The lining expressing the color red, no claim being made for the word "Time" apart from the remainder of the representation.

Particular description of goods.—Time-Controlled Signals and Trip Mechanisms for Automatically Arresting Operation of a Machine.

Claims use since Jan. 28, 1921.

Ser. No. 144,397. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) THE INLAND CO., Providence, R. I. Filed Mar. 7, 1921.

Fifi

Particular description of goods.—Cigarette-Cases.

Claims use since Jan. 1, 1921.

Ser. No. 144,449. (CLASS 11. INKS AND INKING MATERIALS.) THE COLUMBIA CARBON COMPANY, Dayton, Ohio. Filed Mar. 8, 1921.



Particular description of goods.—Inked Ribbons and Carbon-Sheets for Duplicating or Transferring Impressions.

Claims use since about Oct. 1, 1920.

Ser. No. 144,718. (CLASS 22. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GEBR. & HARBECK, Hamberg, Germany. Filed Mar. 14, 1921.

Normannia

Particular description of goods.—Sewing-Machines.

Claims use since 1905.

Ser. No. 144,900. (CLASS 22. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ELECTRO-STROP MANUFACTURING COMPANY, INC., Philadelphia, Pa. Filed Mar. 18, 1921.

MOTOSTROP

Particular description of goods.—Razor Stropping and Honing Machines, Razor-Blade Holders, and Razor-Blade Hones and Strops for Razor-Sharpening Machines.

Claims use since Dec. 20, 1920.

Ser. No. 144,965. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) CARTIER, INC., New York, N. Y. Filed Mar. 19, 1921. Under ten-year proviso.

CARTIER

Particular description of goods.—Cigarette and Cigar Cases and Snuff-Boxes.

Claims use since 1859.

Ser. No. 145,062. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) SAMUEL GORDON, New York, N. Y. Filed Mar. 22, 1921.



Particular description of goods.—Pipes, Cigar and Cigarette Holders, Pouch Tobacco-Bags, Humidors, and Cigar and Cigarette Cases.

Claims use since Oct. 1, 1920.

Ser. No. 145,078. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) G. MAZALONE, Chicago, Ill. Filed Mar. 22, 1921.



No claim is made to the exclusive use of the words "Italy Brand" and "Torre Annunziata Style" apart from the mark shown on the drawing.

Particular description of goods.—Macaroni and Spaghetti and Alimentary Paste.

Claims use since 1919.

Ser. No. 145,143. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WICKWIRE SPENCER STEEL CORPORATION, Worcester, Mass. Filed Mar. 23, 1921. Under ten-year proviso.

CLINTON

Particular description of goods.—Wire-Cloth of Brass, Bronze, and Copper, Black and Galvanized; Wire-Cloth for Window-Screens and Conveyer Belts; Wire-Cloth with Diamond Mesh, Square Mesh, and Double Crimped; Locomotive, Poultry, Glass, and Fish-Trap Wire-Netting; Wire Trellis, Wire Plant-Supports; Spiral Wire Fabric for Conveyer-Belts, Welded Screen and Welded Wire Fabric.

Claims use since 1856.

Ser. No. 145,262. (CLASS 9. EXPLOSIVES, FIRE-ARMS, EQUIPMENTS, AND PROJECTILES.) FOREIGN MANUFACTURERS SALES CORPORATION, New York, N. Y. Filed Mar. 26, 1921.

LIBIA

Particular description of goods.—Pistols.

Claims use since about Dec. 1, 1920.

Ser. No. 145,629. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) The Geo. H. Jones Co., Cincinnati, Ohio. Filed Mar. 30, 1921.



No exclusive claim is made to the representation of the human foot except in the connection shown.

Particular description of goods.—Arch-Braces.

Claims use since Dec. 1, 1921.

Ser. No. 145,619. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Equinox Mountain Springs, Inc., New York, N. Y. Filed Apr. 2, 1921.



Particular description of goods.—Maple-Syrup, Maple-Sugar, Maple-Sugar Candy, and Maple-Cream.

Claims use since Feb. 1, 1921.

Ser. No. 146,176. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) The Wawbeek Spring Water Co., Suffield, Conn. Filed Apr. 14, 1921.



The various cross-lines or hatchings shown in the drawing of the mark are disclaimed for any purpose except shading.

Particular description of goods.—Ginger-Ale, Ginger-Beer, Sarsaparilla, Birch-Beer, Root-Beer, Strawberry-Soda, Raspberry-Soda, Orangeade, Lemon-Sour, Lemon-Soda, Lemon and Lime, Carbonated Water, Spring-Water, Natural Water, and Non-Alcoholic Carbonated Beverages.

Claims use since Apr. 1, 1918.

Ser. No. 146,240. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) Samuel M. Sharps, New York, N. Y. Filed Apr. 15, 1921.



Particular description of goods.—Dental Floss.

Claims use since Mar. 12, 1921.

Ser. No. 146,242. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) Charles Scardone, Newfield, N. J. Filed Apr. 15, 1921.



Particular description of goods.—Fire-Crackers.

Claims use since Mar. 27, 1920.

Ser. No. 146,305. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) Richard Franklin, New York, N. Y. Filed Apr. 18, 1921.



Particular description of goods.—Clinical Thermometers.

Claims use since June 1, 1920.

Ser. No. 146,305. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Bradley Pulverizer Co., Boston, Mass. Filed Apr. 19, 1921.



Particular description of goods.—Grinding and Pulverizing Mills.

Claims use since 1909

Ser. No. 146,377. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Andrea Dellape, Altoona, Pa. Filed Apr. 19, 1921.

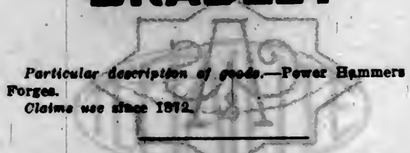


The trade mark is a portrait of applicant's son.

Particular description of goods.—Medicine for Spanish Flu.

Claims use since Mar. 1, 1920.

Ser. No. 146,623. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) C. C. Bradley & Son, Syracuse, N. Y. Filed Apr. 23, 1921. Under ten-year proviso.



Particular description of goods.—Power Hammers and Forges.

Claims use since 1872.

Ser. No. 146,669. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) Carl Schneider, Nutley, N. J. Filed Apr. 23, 1921.



The word "Automatic" appearing in the mark is disclaimed apart from the mark shown by the drawing.

Particular description of goods.—Check-Valves, Siphons, Cocks, Automatic Valves, Metal Tubes, Metal Piping, Metal Pipe-Fittings, Metal Flexible Tubing.

Claims use since Apr. 1, 1921.

Ser. No. 146,970. (CLASS 37. PAPER AND STATIONERY.) Money Irwin, Cleveland, Ohio. Filed Apr. 29, 1921.



Particular description of goods.—A Household and General Office Inventory Record-Blank.

Claims use since Mar. 1, 1921.

Ser. No. 147,040. (CLASS 28. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) I-C Manufacturing Company, Chicago, Ill. Filed Apr. 30, 1921.



The lines forming the background in the drawing of the mark are intended to indicate the color of red.

Particular description of goods.—Grease and Oil Guns and Connections Therefor.

Claims use since Nov. 1, 1920.

Ser. No. 147,118. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) The New Britain Tool and Manufacturing Company, New Britain, Conn. Filed May 2, 1921.



Particular description of goods.—Milling-Cutters, Reamers, Counter Bores, Arbors, Nurling-Tools, Special Metal-Working Tools Made for Sale Upon Order, Universal Dividing-Heads, and Vises.

Claims use since about July, 1919.

Ser. No. 147,190. (CLASS 37. PAPER AND STATIONERY.) THE ALLING AND CORY COMPANY, Pittsburgh, Pa. Filed May 4, 1921. Under ten-year proviso.

STANDARD

Particular description of goods.—Ledger-Papers.
Claims use since Jan. 1, 1890.

Ser. No. 147,277. (CLASS 11. INKS AND INKING MATERIALS.) CARBIS MFG. CORPORATION, Rochester, N. Y. Filed May 6, 1921.



Particular description of goods.—Carbon-Paper and Typewriter-Ribbons.
Claims use since Dec. 17, 1917.

Ser. No. 147,354. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) DAVID LANGHEEN, New York, N. Y. Filed May 7, 1921.

SANITEX

The crosses are not printed in red nor upon a red background.
Particular description of goods.—Gauze and Cheese-Cloth for Surgical Purposes.
Claims use since Mar. 1, 1921.

Ser. No. 147,402. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHANNEL COMMERCIAL CO., Los Angeles, Calif. Filed May 9, 1921.



No claim is made to the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Canned Fruits, Canned Vegetables; Canned Meats—Namely, Little Links, Deviled Meat Products, Cooked Beef-Tongues, Veal Loaf, and Meat Products; Canned Fish, Canned Oysters, Dried Fruits, Bird-Seed, Candies, Catsup, Breakfast Cereals, Maraschino Cherries, Chocolate, Crackers, Wheat-Flour, Fruit Jams, Berry Jams, Fruit Jellies, Evaporated Milk, Unshelled Nuts, Olives, Salad-Oil, Condiments, Pickles, Pimientos, Fruit Preserves, Rice, Rolled Oats, Tapioca, and Vinegar.
Claims use since July 5, 1913.

Ser. No. 147,496. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) CLAUDIUS ASH, SONS & COMPANY, LIMITED, London, England. Filed May 10, 1921.



Particular description of goods.—Dental Apparatus and Supplies—Namely, Pulp-Canal Cleansers; Pulp-Canal Cleansers, Spring-Tempered; Pulp-Canal Cleansers, Soft-Tempered; Pulp-Canal Cleansers, Assorted; Tongue-Holders, Metal Water-Syringes, Rubber Carbo Separating-Disks, Gum-Tragacanth for Securing the Adhesion of Artificial Dentures, Sticky Wax, Pattern-Lead, Model-Cement, Dental Rubber, Artificial Teeth.
Claims use since September, 1910.

Ser. No. 147,678. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEO S. OSMAN, Washington, D. C. Filed May 13, 1921.

TU-RA-HE

Particular description of goods.—Corn and Bunion Salve, Cold and Catarrh Cream, Cold and Coryza Tablets, Pile-Tablets, Bladder-Tablets, Tablets for Female Troubles; Nerve, Blood, and Stomach Tablets; Constipation-Tablets, Tablets for Difficult Breathing, Worm-Tablets, Blood and Skin Tablets; Tablets for Fever, Gassy, or Upset Stomach; Headache-Tablets, Tablets for Nervousness, Tablets for Colds, Tablets for Indigestion; Herb Tablets for Nerves, Blood, and Strength; Tablets for Tonsilitis; Laxative, Tonic, and Blood Tablets; Herb Laxative Tablets, Tablets for Heat and Fever, Tablets for Enlarged Glands and Swellings, Tablets for Neuralgia, "Flu"-Tablets, Kidney-Tablets, Tablets for Dropsy, Beauty-Cream, Hair and Scalp Pomade, Perfume-Oil, Blood Medicine and Nerve-Tonic; Healing-Syrup for Coughs, Colds, Bronchial Trouble and Throat Irritation; Toilet Powder, Leucorrhea-Tablets, General Tonic, Healing and Vitalising Oil, Incense, Fine-Tar Ointment, Body-Odor Preparation, Uric-Acid Tablets; Astringent, Antiseptic, Healing Powder; Herb Tea for Medicinal Uses.
Claims use since 1915.

Ser. No. 147,872. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) L. F. GRAMMES & SONS, Allentown, Pa. Filed May 18, 1921.



Particular description of goods.—Nail-Pullers.
Claims use since Mar. 11, 1910.

Ser. No. 147,940. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) EARLE F. POTTER, Creston, Iowa. Filed May 19, 1921.

TELTAILITE

Particular description of goods.—Detectors for Indicating the Condition of Automobile Ignition and Signaling Circuits.
Claims use since May 11, 1921.

Ser. No. 147,955. (CLASS 37. PAPER AND STATIONERY.) THE DUPLEX ENVELOPE COMPANY, Quincy, Ill. Filed May 20, 1921.

The Duplex Envelope Company

Particular description of goods.—Envelops for Mailing Articles and for Correspondence.
Claims use since Jan. 1, 1921.

Ser. No. 148,034. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PREMIER CUTLERY, INC., New York, N. Y. Filed May 21, 1921.

Elk

Particular description of goods.—Table Flat-Ware and Cutlery of Base Metal, Consisting of Table-Knives, Table-Forks, Table-Spoons, Pocket-Knives, Scissors, Razors, Shears, Carving Sets.
Claims use since Apr. 5, 1921.

Ser. No. 148,035. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PREMIER CUTLERY, INC., New York, N. Y. Filed May 21, 1921.

Premier

Particular description of goods.—Table Flat-Ware and Cutlery of Base Metal, Consisting of Table-Knives, Table-Forks, Table-Spoons, Pocket-Knives, Scissors, Razors, Shears, Carving Sets.
Claims use since Apr. 5, 1921.

Ser. No. 148,085. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) RALPH S. PEIRCE, Hinsdale, Ill. Filed May 23, 1921.

HICO

Particular description of goods.—Expansion-Bolts.
Claims use since Oct. 1, 1920.

Ser. No. 148,245. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE O. P. SCHRIVER CO., Cincinnati, Ohio. Filed May 25, 1921.



No claim being made to the exclusive use of the word "Fruit" except in the connection shown.
Particular description of goods.—Fruit-Presses.
Claims use since May 17, 1921.

Ser. No. 148,340. (CLASS 20. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MAGNETO ATTACHMENTS CO. INC., New York, N. Y. Filed May 27, 1921.

MATCO

Consisting of the word "Matco."

Particular description of goods.—Attachments for Fitting Magnetos to Internal-Combustion Engines and Magneto Drive-Couplings Therefor.

Claims use since about Apr. 1, 1920.

Ser. No. 148,454. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) "PEP" LABORATORY, Chicago, Ill. Filed May 31, 1921.

PRESTO! PRESTO!

Particular description of goods.—A Non-Alcoholic, Non-Cereal, Maltless Beverage Sold as a Soft Drink and Powder for Making the Same.

Claims use since March, 1921.

Ser. No. 148,655. (CLASS 27. HOROLOGICAL INSTRUMENTS.) HAMMEL, RIGLANDER & CO., New York, N. Y. Filed June 4, 1921. Under ten-year proviso.

POLTOCK'S

Particular description of goods.—Small Metallic Washers Placed under Clock and Watch Dials and Known as "Dial-Washers."

Claims use since 1891.

Ser. No. 148,773. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) WESTERN CARTRIDGE COMPANY, East Alton and Springfield, Ill. Filed June 6, 1921.

LUBALOY

Particular description of goods.—Non-Fouling Bullets.

Claims use since about Jan. 1, 1921.

Ser. No. 148,778. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) WESTERN CARTRIDGE COMPANY, East Alton and Springfield, Ill. Filed June 6, 1921.

Lubaloy

Particular description of goods.—Non-Fouling Bullets.

Claims use since about Jan. 1, 1921.

Ser. No. 148,782. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ARNETH COMPANY, Washington, D. C. Filed June 7, 1921.



Particular description of goods.—An Ointment for Rheumatism, After Shaving, Catarrh in Nose, Falling Hair, Dandruff, Headache, Corns, Chapped Hands, Poison-Oak, Burns, Wounds, Hives, and Itching, for Growing Hair on the Scalp and Eyebrows.

Claims use since April, 1920.

Ser. No. 148,800. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SIGMUND ISAACS, New York, N. Y., and Yokohama, Japan. Filed June 7, 1921.

KEENSTEELITE

Particular description of goods.—Safety-Razors and Safety-Razor Blades.

Claims use since January, 1918.

Ser. No. 148,827. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEO. A. HORMEL & CO., Austin, Minn. Filed June 8, 1921.

HORMEL

No claim being made to the words "Good Food" except as associated with the design and the word "Hormel."

Particular description of goods.—Bacon, Breakfast-Sausage; Sausage, Bologna Style; Link-Sausage; Sausage, Frankfort Style; Sausage, Wiener Style; Pork Sausage, Pigs' Feet, Dried Beef, Pork and Beans, and Peanut-Butter.

Claims use since Mar. 16, 1920.

Ser. No. 148,948. (CLASS 37. PAPER AND STATIONERY.) PACKAGE PAPER & SUPPLY CORPORATION, Springfield, Mass. Filed June 10, 1921.

KRYSTALLENE

Particular description of goods.—Waxed and Transparent Papers.

Claims use since Apr. 10, 1921.

Ser. No. 148,950. (CLASS 37. PAPER AND STATIONERY.) PACKAGE PAPER & SUPPLY CORPORATION, Springfield, Mass. Filed June 10, 1921.

MIRROWAX

Particular description of goods.—Waxed and Transparent Papers.

Claims use since Apr. 10, 1921.

Ser. No. 149,076. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) RAFAEL ESCOFET, Tarragona, Spain. Filed June 13, 1921.

MOSTELLE

Particular description of goods.—Unfermented Grape-Juice and Unfermented Juice of other Fruits.

Claims use since September, 1907.

Ser. No. 149,152. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SOCIÉTÉ DES USINES CURIAL, Paris, FRANCE. Filed June 14, 1921.

Curial

Particular description of goods.—Metal-Working Tools, Taps, Dies, Milling-Cutters, Reamers, Work-Holding Arbors, Collets and Sockets, Twist-Drills, Punches and Dies, Hand-Chasers, and Countersinks.

Claims use since Dec. 10, 1919.

Ser. No. 149,272. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) DEFENDER PHOTO SUPPLY COMPANY, INC., Rochester, N. Y. Filed June 17, 1921.

DEFENDER

Particular description of goods.—Sensitized Photographic Paper.

Claims use since March, 1912.

Ser. No. 149,321. (CLASS 34. METALS AND METAL CASTINGS AND FORGINGS.) GREAT WESTERN SMELTING & REFINING COMPANY, Chicago, Ill. Filed June 17, 1921.

G W

Particular description of goods.—Babbitt Metal, Solder, Brass, Bronze, Aluminum, Aluminum-Bronze, White Brass, White Bronze, Type Metals, Pattern Metal, and Special Alloys Composed Wholly or in Part of Copper, Lead, Tin, Antimony, Aluminum, Bismuth, Phosphorus, Zinc, and Manganese.

Claims use since June 1, 1918.

Ser. No. 149,314. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOUIS BADER, Passaic, N. J. Filed June 18, 1921.

ELBAY

Particular description of goods.—Cold-Creams, Tissue-Creams, Vanishing Creams, Witch-Hazel Creams, Face and Hand Lotions, and Cuticle-Removers.

Claims use since May 13, 1921.

Ser. No. 149,366. (CLASS 37. PAPER AND STATIONERY.) WHITE & WYCKOFF MANUFACTURING COMPANY, Holyoke, Mass. Filed June 18, 1921.



Consists in the representation of blue birds and the words "Blue Bird." No claim is made to the words "The," "School," or "Series" apart from the mark shown in the drawing.

Particular description of goods.—Writing-Tablets.
Claims use since Jan. 1, 1916.

Ser. No. 149,391. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DEXTER FOLDER COMPANY, New York, N. Y. Filed June 20, 1921.



Applicant disclaims the exclusive right to the use of the words "Manufactured by," "General Office," and "New York, N. Y., U. S. A.," apart from the mark as shown.

Particular description of goods.—Paper-Handling Machines—Namely, Paper-Feeders, Cross Continuous Feeders, Reloading-Feeders, Paper-Cutting Machines; Inserting, Covering, and Wire-Stitching Machines; Bundling-Machines; Automatic Feeding, Folding, Collating, Covering, and Wire-Stitching Machines, Bundling-Presses, and Folding-Machines.
Claims use since 1880.

Ser. No. 149,424. (CLASS 37. PAPER AND STATIONERY.) REALITE PENCIL CO., Chicago, Ill. Filed June 20, 1921.

Realite

Particular description of goods.—Lead-Pencils.
Claims use since Apr. 15, 1921.

Ser. No. 149,512. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MARCUS & SMITH, New York, N. Y. Filed June 22, 1921.

Silk Edge Puff

No claim is made to the word "Puff" apart from the mark shown.

Particular description of goods.—Powder-Puffs.
Claims use since about Mar. 4, 1919.

Ser. No. 149,570. (CLASS 15. OILS AND GREASES.) WAVERLY OIL WORKS COMPANY, Pittsburgh, Pa. Filed June 23, 1921.

THIN-THICK

Particular description of goods.—Lubricating-Oils.
Claims use since June 11, 1921.

Ser. No. 149,698. (CLASS 37. PAPER AND STATIONERY.) GRAHAM PAPER COMPANY, St. Louis, Mo. Filed June 27, 1921.



Particular description of goods.—Tissue Toilet-Paper.
Claims use since December, 1919.

Ser. No. 149,818. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) PENBERTHY INJECTOR COMPANY, Detroit, Mich. Filed June 29, 1921.

PENBERTHY

The word "Products" being disclaimed apart from the mark shown on the drawing.

Particular description of goods.—Flow-Meters, Water-Gages, and Oil-Gages.
Claims use since July 1, 1902.

Ser. No. 149,832. (CLASS 37. PAPER AND STATIONERY.) SHAMAN PATRICK PAPER CO., Detroit, Mich. Filed June 29, 1921.

TUF-FOLD

Particular description of goods.—Enamel-Paper.
Claims use since May 1, 1918.

Ser. No. 150,012. (CLASS 37. PAPER AND STATIONERY.) INDUSTRIAL PAPER COMPANY, Baltimore, Md. Filed July 5, 1921.

WHITE CAP



Particular description of goods.—Toilet-Paper and Wrapping-Paper.
Claims use since March, 1920.

Ser. No. 150,049. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) WINDSOR BROOM COMPANY, Hamburg, Pa. Filed July 5, 1921.



Consists of the representation of a white cross.

Particular description of goods.—Brooms.
Claims use since March, 1918.

Ser. No. 150,060. (CLASS 37. PAPER AND STATIONERY.) ZELLERBACH PAPER COMPANY, San Francisco, Calif. Filed July 6, 1921.

ARROW HEAD

Particular description of goods.—Wrapping-Paper.
Claims use since June 17, 1921.

Ser. No. 150,202. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THE PETERS CARTRIDGE COMPANY, Cincinnati, Ohio. Filed July 9, 1921.

TACK-HOLE

Particular description of goods.—Metallic Cartridges.
Claims use since Feb. 8, 1921.

Ser. No. 150,239. (CLASS 37. PAPER AND STATIONERY.) KLOPP & BARTLETT COMPANY, Omaha, Nebr. Filed July 11, 1921.

K-B

Particular description of goods.—Bound and Loose-Leaf Blank Books and Record-Books, Legal Forms and Blanks, and Printed and Lithographed Blanks and Forms for Use of Schools, Election-Boards, State, County, and Municipal Officials, and Corporations.
Claims use since February, 1914.

Ser. No. 150,271. (CLASS 11. INKS AND INKING MATERIALS.) ADOLPH M. HECK, Los Angeles, Calif. Filed July 12, 1921.

Inkpression

Particular description of goods.—Inked Ribbons and Carbon-Sheets for Duplicating and Transferring Impressions.
Claims use since about Mar. 25, 1921.

Ser. No. 150,272. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SPENCER M. HEARN, Los Angeles, Calif. Filed July 12, 1921.

A Crosleywood Comedy

Consisting of the words "A Crosleywood Comedy," no claim being made to the exclusive use of the word "Comedy" apart from the mark as shown in the drawing.

Particular description of goods.—Motion-Picture Films.
Claims use since June 20, 1921.

Ser. No. 150,322. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) MITROS EXPORT & IMPORT CO., INC., New York, N. Y. Filed July 13, 1921.

MITROE

Particular description of goods.—Projection-Screens for Moving Pictures.
Claims use since Mar. 20, 1921.

Ser. No. 150,555. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM PEMPEL, London, England. Filed July 22, 1921.

Sloyd

Particular description of goods.—A Medicine Used Against Cancer, Stomach, and Liver Troubles, and as a Blood-Purifier.
Claims use since 1909.

Ser. No. 151,135. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, Cincinnati, Ohio. Filed July 20, 1921.



Particular description of goods.—Playing-Cards.
Claims use since about 1896.

Ser. No. 151,139. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, Cincinnati, Ohio. Filed July 20, 1921.



Particular description of goods.—Playing-Cards.
Claims use since about 1896.

Ser. No. 151,163. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HICKS-FULLER COMPANY, Sioux City, Iowa. Filed July 30, 1921.

MOOSEHEAD

Particular description of goods.—Cotton Blankets and Flannel Piece Goods.
Claims use since July 1, 1911.

Ser. No. 151,203. (CLASS 37. PAPER AND STATIONERY.) CENTRAL PAPER COMPANY, Menasha, Wis. Filed Aug. 1, 1921.

QUALIFIED

Particular description of goods.—Adding-Machine Paper.
Claims use since Aug. 1, 1919.

Ser. No. 151,251. (CLASS 2. RECEPTACLES.) BUTTON & SIERAD, New York, N. Y. Filed Aug. 2, 1921.

Dabs

Particular description of goods.—Containers for Perfumes.
Claims use since May 1, 1921.

Ser. No. 151,207. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) BOSTON, INCORPORATED, Springfield, Mass. Filed Aug. 3, 1921.

KEYTAINER

Particular description of goods.—Key-Cases.
Claims use since July 14, 1921.

Ser. No. 151,538. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROSE FISCHER, New York, N. Y. Filed Aug. 8, 1921.

CRUSHED

ROSE

LEAVES

Particular description of goods.—Lip and Face Creams.
Claims use since about 1906.

Ser. No. 151,589. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MEDICINAL PRODUCTS CORPORATION, Holyoke, Mass. Filed Aug. 9, 1921.

MEDCO

Particular description of goods.—Indigestion-Powder and Shampoo Preparation.
Claims use since July 1, 1921.

Ser. No. 151,658. (CLASS 37. PAPER AND STATIONERY.) CHEMICAL PAPER MANUFACTURING COMPANY, Holyoke, Mass. Filed Aug. 11, 1921.



Particular description of goods.—Index, Check, Ledger, Envelop, and Colored Laid Writing Papers.
Claims use since Sept. 9, 1913.

Ser. No. 151,697. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STEPHEN H. BROOKS, Cleveland, Ohio. Filed Aug. 12, 1921.



Particular description of goods.—Fire-Extinguishing Liquid.
Claims use since May 1, 1919.

Ser. No. 151,706. (CLASS 37. PAPER AND STATIONERY.) CHEMICAL PAPER MANUFACTURING COMPANY, Holyoke, Mass. Filed Aug. 12, 1921.

CHEMCO

Particular description of goods.—Index, Check, Ledger, Envelop, and Colored Laid Writing Papers.
Claims use since Jan. 1, 1914.

Ser. No. 151,709. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEO CAUPPMAN, Rochester, N. Y. Filed Aug. 12, 1921.

BATELTAR

Particular description of goods.—Cough-Syrup.
Claims use since July 30, 1921.

Ser. No. 151,747. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BAUER & BLACK, Chicago, Ill. Filed Aug. 13, 1921.



Particular description of goods.—Talcum Powder.
Claims use since May 28, 1921.

Ser. No. 151,756. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAINTY DABS IMPORTING CORP., New York, N. Y. Filed Aug. 13, 1921.

DAINTY DABS

Particular description of goods.—Perfumes and Perfumes Bottled and Packaged in Vials.
Claims use since on or about July 26, 1921.

Ser. No. 151,898. (CLASS 37. PAPER AND STATIONERY.) WILSON-JONES LOOSE LEAF COMPANY, Chicago, Ill. Filed Aug. 17, 1921.

"Buddy"

Particular description of goods.—Note-Books and Memorandum-Books.
Claims use since Apr. 15, 1921.

Ser. No. 151,911. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THE DIAMOND MATCH COMPANY, Chicago, Ill. Filed Aug. 18, 1921.



Particular description of goods.—Matches.
Claims use since June, 1898.

Ser. No. 152,240. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) DEVOINE CANDY COMPANY, Baltimore, Md. Filed Aug. 27, 1921.

MAVIS

Particular description of goods.—Chocolate Syrups and other Maltless Syrups Used in Connection with Soft Drinks and at Soda-Fountains.
Claims use since May 1, 1920.

Ser. No. 152,264. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LOS ANGELES SOAP CO., Los Angeles, Calif. Filed Aug. 27, 1921.



The word "Olive" does not form a part of the registrations sought apart from the mark shown in the drawing.
Particular description of goods.—Toilet Soap.
Claims use since 1900.

Ser. No. 152,279. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OST APOTHECARY, INC., Atlantic City, N. J. Filed Aug. 27, 1921.

ALCO BATH

Particular description of goods.—A Medicated Alcohol.
Claims use since January, 1920.

Ser. No. 152,283. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) KATHERINE SCHMITZ, Chicago, Ill. Filed Aug. 27, 1921.



Particular description of goods.—Automobile and Furniture Polish.
Claims use since Apr. 1, 1921.

Ser. No. 152,286. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANTENOR SALA, Mexico, Mexico. Filed Aug. 27, 1921.



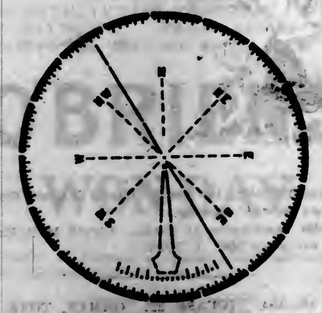
Particular description of goods.—A Medicinal Preparation for the Treatment of Malaria in All its Forms.
Claims use since Mar. 12, 1919.

Ser. No. 152,314. (CLASS 37. PAPER AND STATIONERY.) CHEMICAL PAPER MANUFACTURING CO., Holyoke, Mass. Filed Aug. 29, 1921.

MYRIAD

Particular description of goods.—Manifold Light-Weight Onion-Skin Paper.
Claims use since June 31, 1912.

Ser. No. 152,315. (CLASS 15. OILS AND GREASES.) COMPASS OIL COMPANY, San Francisco, Calif. Filed Aug. 29, 1921.



"COMPASS"

Particular description of goods.—Petroleum and Petroleum Products, Consisting of Gasolene, Naphtha, Distillate, Kerosene, Paraffin-Wax, Fuel-Oil, Axle-Grease, Cutting Compounds, Cup-Greases, Gear-Greases, Cable-Greases, Steam-Cylinder Oils, Neutrals, Stock-Oils, Motor-Lubricating Oils, Steam-Oils, Marine Oils, Spindle-Oils, Engine-Oils, Journal-Oils, Machine-Oils, Dynamo-Oils, and Transformer-Oils.
Claims use since July 13, 1921.

Ser. No. 152,324. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOMAS E. DILLEY, Fort Wayne, Ind. Filed Aug. 29, 1921.

An-vel-o

Particular description of goods.—A Preparation Used in Washing the Hair.
Claims use since July 7, 1921.

Ser. No. 152,390. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THORN & COMPANY, INCORPORATED, Boston, Mass. Filed Aug. 30, 1921.

BENZYLOIDS

Particular description of goods.—A Preparation Used in the Treatment of Intestinal Pains and Disorders.
Claims use since July 2, 1921.

Ser. No. 152,438. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NEUSS, HESSLEIN & CO., INC., New York, N. Y. Filed Aug. 31, 1921.



Particular description of goods.—Woven Cotton Piece Goods—Namely, Bleached Cottons—Namely, Cambrics, Nainsooks, Prints, Voiles, and Ginghams.
Claims use since March, 1908.

Ser. No. 152,444. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SAMUEL C. PATCHETT, Washington, D. C. Filed Aug. 31, 1921.

LADDIE BOY

Particular description of goods.—Toy Banks.
Claims use since Aug. 18, 1921.

Ser. No. 152,454. (CLASS 37. PAPER AND STATIONERY.) Wright, Barrett & Stilwell Company, St. Paul, Minn. Filed Aug. 31, 1921.

SEAL OF MINNEAPOLIS

Particular description of goods.—Writing-Paper.
Claims use since on or about Nov. 1, 1920.

Ser. No. 152,455. (CLASS 37. PAPER AND STATIONERY.) Wright, Barrett & Stilwell Company, St. Paul, Minn. Filed Aug. 31, 1921.

SEAL OF SAINT PAUL

Particular description of goods.—Writing-Paper.
Claims use since on or about Nov. 1, 1920.

Ser. No. 152,469. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Blake & Stearns, Boston, Mass. Filed Sept. 1, 1921.

ALYEAR

Particular description of goods.—Woolens and Worsteds in the Piece.
Claims use since August, 1912.

Ser. No. 152,472. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Herbert B. Lederer Co., Inc., New York, N. Y. Filed Sept. 1, 1921.

Queen of Scots



Particular description of goods.—Ginghams in the Piece.
Claims use since Apr. 18, 1921.

Ser. No. 152,476. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Adolph C. Onnen, Baltimore, Md. Filed Sept. 1, 1921.

ARMOL

Particular description of goods.—General Tonic.
Claims use since Jan. 1, 1920.

Ser. No. 152,477. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Oxzyn Company, New York, N. Y. Filed Sept. 1, 1921.

MASTIKO

Particular description of goods.—Hard-Water Color Hair-Tints Used for Eyebrows, Eyelashes, and Graying Hair.
Claims use since Aug. 24, 1921.

Ser. No. 152,478. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Oxzyn Company, New York, N. Y. Filed Sept. 1, 1921.

COSMETIKO

Particular description of goods.—Hard-Water Color Hair-Tints Used for Eyebrows, Eyelashes, and Graying Hair.
Claims use since Aug. 24, 1921.

Ser. No. 152,484. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J., and New York, N. Y. Filed Sept. 1, 1921.

Mistol

Particular description of goods.—Nose and Throat Spray.
Claims use since Aug. 12, 1921.

Ser. No. 152,490. (CLASS 48. MALT BEVERAGES, EXTRACTS AND LIQUORS.) Chas. Volker & Son, Chicago, Ill. Filed Sept. 1, 1921.

Volker's Bohemian Brand



Applicant disclaims the word "Brand" apart from the mark shown on the drawing.
Particular description of goods.—Liquid Malt Extract.
Claims use since Mar. 1, 1921.

Ser. No. 152,494. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) American Drug and Chemical Co., Gettysburg, Pa. Filed Sept. 2, 1921.

WONDERLET

Drawing is not intended to indicate color, but merely shading of the letters.
Particular description of goods.—Toy Chemical Sets.
Claims use since Aug. 15, 1921.

Ser. No. 152,520. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) American Sealing Company, Chicago, Ill. Filed Sept. 3, 1921.

ASCO
AMERICAN SEALING COMPANY

Particular description of goods.—A Specially-Compounded Furniture-Finish.
Claims use since 1917.

Ser. No. 152,560. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Home Products Inc., Rahway, N. J. Filed Sept. 3, 1921.

KRYSTAL GAS
KILLS PEACH TREE BORER

Consisting of the words "Krystal Gas." Applicant disclaims any exclusive right to the use of the words "Kills Peach Tree Borers" except in connection with the mark as shown.
Particular description of goods.—A Chemical Disinfectant, Insecticide, and Fungicide.
Claims use since May 2, 1921.

Ser. No. 152,578. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) O'Brien Varnish Company, South Bend, Ind. Filed Sept. 3, 1921.

SOUTH BEND
60-40

Particular description of goods.—Ready-Mixed Paints.
Claims use since Sept. 1, 1920.

Ser. No. 152,581. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) O'Brien Varnish Company, South Bend, Ind. Filed Sept. 3, 1921.

O'BRIEN'S
WON-DAY

Particular description of goods.—Automobile-Enamels.
Claims use since June 1, 1921.

Ser. No. 152,595. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) C. D. Smith Drug Company, St. Joseph, Mo. Filed Sept. 3, 1921.

BATHRUB

Particular description of goods.—Bathing-Alcohol.
Claims use since July 19, 1921.

Ser. No. 152,665. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) M. Wahl & Son, New York, N. Y. Filed Sept. 6, 1921.

LADY JANE

Particular description of goods.—Hair-Nets.
Claims use since Aug. 1, 1919.

Ser. No. 152,674. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Chester H. Easterday, Logansport, Ind. Filed Sept. 7, 1921.

REALIFE

Particular description of goods.—Embalming Fluid.
Claims use since July 1, 1921.

Ser. No. 152,691. (CLASS 37. PAPER AND STATIONERY.) Tension Envelope Company, Inc., Brooklyn, N. Y. Filed Sept. 7, 1921.

TCO

Particular description of goods.—Envelops.
Claims use since Aug. 22, 1921.

Ser. No. 152,852. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) McDougall-Butler Co., Inc., Buffalo, N. Y. Filed Sept. 12, 1921.



Particular description of goods.—Varnish.
Claims use since about 1896.

Ser. No. 152,867. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio. Filed Sept. 12, 1921.

ZILO

Particular description of goods.—Paints, (Ready Mixed and Paste,) Being a Combination of Lead, Zinc, and Linseed-Oil.
Claims use since July 30, 1921.

Ser. No. 152,895. (CLASS 2. RECEPTACLES.) KRONYTE MANUFACTURING CORPORATION, Rochester, N. Y. Filed Sept. 13, 1921.

Kronyte

Particular description of goods.—Fiber Cops and Quills.
Claims use since Sept. 1, 1921.

Ser. No. 152,972. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THOS. E. WILSON & CO., Chicago, Ill. Filed Sept. 15, 1921.

AERO CENTER

Particular description of goods.—Baseballs.
Claims use since Nov. 1, 1920.

Ser. No. 152,980. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. H. BISHOP, Baltimore, Md. Filed Sept. 16, 1921.



No claim being made to the words "Hair Grower," the portrait being that of Hattie Young.
Particular description of goods.—Hair-Pomade.
Claims use since July 7, 1921.

Ser. No. 153,022. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Filed Sept. 16, 1921.

BEACON

The word "Beacon."
Particular description of goods.—Golf-Balls.
Claims use since Aug. 17, 1921.

Ser. No. 153,062. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) GEORGE BORGFELDT & Co., New York, N. Y. Filed Sept. 19, 1921.



Consisting of the word "Pansy" and the representation of a pansy, no claim being made to the word "Doll" apart from the mark shown.
Particular description of goods.—Dolls.
Claims use since Mar. 1, 1910.

Ser. No. 153,064. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) GEORGE BORGFELDT & Co., New York, N. Y. Filed Sept. 19, 1921.

MY GIRLIE

Particular description of goods.—Dolls.
Claims use since July 1, 1918.

Ser. No. 153,100. (CLASS 2. RECEPTACLES.) ARTHUR NICHOLSONS LIMITED, London, England. Filed Sept. 19, 1921.

OWTAZIN

Particular description of goods.—Vacuum-Flasks.
Claims use since Apr. 1, 1921.

Ser. No. 153,115. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE SPINIM CO., New York, N. Y. Filed Sept. 19, 1921.

SPINIM

Particular description of goods.—Rotatable Dice.
Claims use since July, 1921.

Ser. No. 153,126. (CLASS 7. CORDAGE.) CAYUGA LINEN & COTTON MILLS INC., Auburn, N. Y. Filed Sept. 20, 1921.

Burlfibre

Particular description of goods.—Twine.
Claims use since July 30, 1920.

Ser. No. 153,127. (CLASS 7. CORDAGE.) CAYUGA LINEN & COTTON MILLS INC., Auburn, N. Y. Filed Sept. 20, 1921.

Indacol

Particular description of goods.—Twine.
Claims use since July 22, 1921.

Ser. No. 153,265. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) A. STRAUSS & Co., New York, N. Y. Filed Sept. 23, 1921.

Our Pet

Particular description of goods.—Dolls.
Claims use since Aug. 15, 1921.

Ser. No. 153,271. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JOHN WANAMAKER, NEW YORK, New York, N. Y. Filed Sept. 23, 1921.

WANAMAKER INDIANA

Particular description of goods.—Golf-Balls.
Claims use since Sept. 2, 1921.

Ser. No. 153,290. (CLASS 7. CORDAGE.) INDIANAPOLIS CORDAGE COMPANY, Indianapolis, Ind. Filed Sept. 24, 1921.



No claim being made to the word "Brand" apart from the mark as shown in the drawing.
Particular description of goods.—Binder-Twine.
Claims use since Feb. 10, 1921.

Ser. No. 153,307. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BENJAMIN MOORE & Co., Jersey City, N. J., and Brooklyn, N. Y. Filed Sept. 24, 1921.

4T5

Particular description of goods.—Varnish.
Claims use since July 5, 1911.

Ser. No. 153,323. (CLASS 37. PAPER AND STATIONERY.) AMERICAN WRITING PAPER COMPANY, Holyoke, Mass. Filed Sept. 26, 1921.

GLORIA

Particular description of goods.—Writing and Printing Papers and Mailing-Envelops.
Claims use since Dec. 1, 1914.

Ser. No. 153,324. (CLASS 37. PAPER AND STATIONERY.) AMERICAN WRITING PAPER COMPANY, Holyoke, Mass. Filed Sept. 26, 1921.

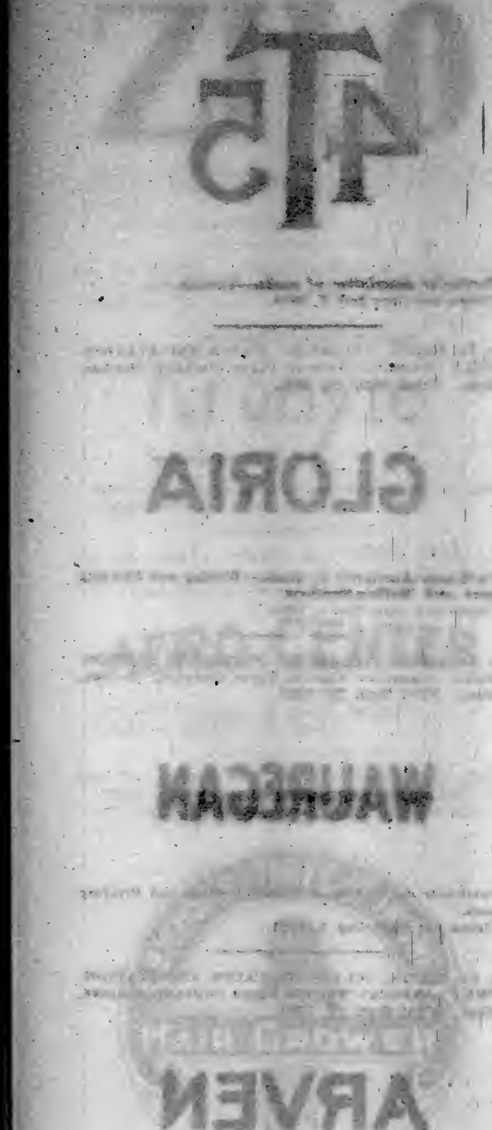
WAUREGAN

Particular description of goods.—Writing and Printing Papers.
Claims use since Aug. 1, 1921.

Ser. No. 153,325. (CLASS 37. PAPER AND STATIONERY.) AMERICAN WRITING PAPER COMPANY, Holyoke, Mass. Filed Sept. 26, 1921.

ARVEN

Particular description of goods.—Cover-Paper.
Claims use since Jan. 1, 1910.





TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

NOVEMBER 15, 1921.

148,343. WRITING, PRINTING, BLOTTING, TISSUE, AND WRAPPING PAPERS. The Albemarle Paper Mfg. Co., Richmond, Va.
Filed February 11, 1921. Serial No. 143,430. PUBLISHED JULY 5, 1921.

148,344. RUBBER TIRES AND TUBES. Amalgamated Tire Stores Corporation, New York, N. Y.
Filed January 12, 1920. Serial No. 137,074. PUBLISHED JULY 19, 1921.

148,345. CORSETS AND BRASSIERES. American Lady Corset Company, Detroit, Mich.
Filed March 14, 1921. Serial No. 144,701. PUBLISHED JULY 5, 1921.

148,346. CERTAIN PRODUCTS OF PURE IRON. The American Rolling Mill Company, Middletown, Ohio.
Filed May 11, 1920. Serial No. 132,284. PUBLISHED JULY 19, 1921.

148,347. CERTAIN NAMED METAL-PIPE FITTINGS. American Steel Foundries, Chicago, Ill.
Filed March 21, 1921. Serial No. 144,999. PUBLISHED JULY 5, 1921.

148,348. STEEL-WOOL FOR CLEANING AND POLISHING PURPOSES. American Steel Wool Mfg. Co. Inc., New York, N. Y.
Filed April 9, 1921. Serial No. 145,929. PUBLISHED JULY 19, 1921.

148,349. TOILET PREPARATIONS—NAMELY, PERFUME, TOILET WATER, COLD-CREAM, FACE-POWDER, TALCUM POWDER, SACHET-POWDER. Associated Merchandising Corporation, Newark, N. J., and New York, N. Y.
Filed December 28, 1920. Serial No. 141,448. PUBLISHED JULY 5, 1921.

148,350. MOTOR-TRUCKS. Atlas Truck Corporation, York, Pa.
Filed January 6, 1921. Serial No. 141,893. PUBLISHED JULY 19, 1921.

148,351. A MONTHLY MAGAZINE. Nora T. Baker, Columbus, Ohio.
Filed May 2, 1921. Serial No. 147,150. PUBLISHED JULY 12, 1921.

148,352. MIXED PAINTS IN OIL, PAINT ENAMELS, VARNISHES, JAPANS, WOOD-STAINS, LACQUERS, WOOD-FILLERS, &c. The Beaver Varnish Company, Inc., Buffalo, N. Y.
Filed December 17, 1920. Serial No. 141,209. PUBLISHED JUNE 14, 1921.

148,353. CHANNEL-SHAPED METAL RODS MADE IN LENGTHS AND ADAPTED TO BE CUT TO SIZE. Beckett, Laycock & Watkinson Limited, London, England.
Filed March 16, 1920. Serial No. 129,774. PUBLISHED JULY 12, 1921.

148,354. TRIMMED AND TAILORED HATS. Berman-Fortgang-Doman, Inc., New York, N. Y.
Filed March 1, 1921. Serial No. 144,174. PUBLISHED JULY 5, 1921.

148,355. RUBBER SPONGES. George William Beldam, Ealing, England.
Filed April 7, 1920. Serial No. 130,787. PUBLISHED JULY 12, 1921.

148,356. VELVETS IN THE PIECE. Bennett and Aspden Company, Philadelphia, Pa.
Filed January 3, 1921. Serial No. 141,758. PUBLISHED JULY 12, 1921.

148,357. VELVETS IN THE PIECE. Bennett and Aspden Company, Philadelphia, Pa.
Filed January 3, 1921. Serial No. 141,759. PUBLISHED JULY 12, 1921.

148,358. A NON-ALCOHOLIC, MALTLESS, CEREAL BEVERAGE SOLD AS A SOFT DRINK. Berghoff Brewing Ass'n, Fort Wayne, Ind., assignee to Berghoff Products Company, a Corporation of Indiana.
Filed June 11, 1918. Serial No. 111,482. PUBLISHED JULY 12, 1921.

148,359. KNITTED AND WOVEN BLOOMERS, KNITTED AND WOVEN VESTS, AND KNITTED AND WOVEN UNION-SUITS. Lazrus Bird, Philadelphia, Pa.
Filed March 23, 1921. Serial No. 145,096. PUBLISHED JULY 5, 1921.

148,360. PREPARED CLOTHS FOR USE ON WINDSHIELDS OF VEHICLES AND OTHER TRANSPARENCIES TO PREVENT THE ACCUMULATION OF RAIN AND MOISTURE. B. J. S. Specialty Company, New York, N. Y.
Filed April 14, 1921. Serial No. 146,161. PUBLISHED JULY 12, 1921.

148,361. PIANOS AND PLAYER-PIANOS. Bjur Bros. Incorporated, New York, N. Y.
Filed May 28, 1921. Serial No. 148,057. PUBLISHED JULY 12, 1921.

148,362. INTERNAL MEDICINE FOR HOG-CHOLERA. Melvina Bodendick, Kansas City, Mo.
Filed December 31, 1920. Serial No. 141,713. PUBLISHED JUNE 28, 1921.

148,363. DIESTOCKS AND HAND PIPE-CUTTERS AND PARTS THEREOF. The Borden Company, Warren, Ohio.
Filed March 24, 1919. Serial No. 126,830. PUBLISHED JULY 19, 1921.

148,364. CERTAIN ARTICLES OF CLOTHING. Branigan, Green & Co., Baltimore, Md.
Filed March 2, 1921. Serial No. 144,218. PUBLISHED JULY 5, 1921.

148,365. EXTRACTS AND FLAVORINGS FOR FOOD PURPOSES. Brendlinger Company, Pittsburgh, Pa.
Filed March 28, 1921. Serial No. 145,309. PUBLISHED JULY 26, 1921.

148,366. TAXICABS AND PLEASURE-AUTOMOBILES. Walter Bundy Cole, New York, N. Y.
Filed May 3, 1921. Serial No. 147,154. PUBLISHED JULY 12, 1921.

148,367. HOSIERY. Eugene Byrnes, New York, N. Y.
Filed February 28, 1921. Serial No. 144,125. PUBLISHED JULY 5, 1921.

148,368. CLOTH, STRAW, FELT, AND WASHABLE-FABRIC HATS AND CLOTH AND WASHABLE-FABRIC CAPS. Eugene Byrnes, New York, N. Y.
Filed February 28, 1921. Serial No. 144,127. PUBLISHED JULY 5, 1921.

148,369. BLOUSES, PAJAMAS, AND OVERALLS. Eugene Byrnes, New York, N. Y.
Filed February 28, 1921. Serial No. 144,126. PUBLISHED JULY 5, 1921.

148,370. CLOTH AND WASHABLE-FABRIC SUITS, OVERCOATS, AND CLOTH AND WASHABLE-FABRIC TROUSERS. EUGENE BYRNES, New York, N. Y.
Filed February 28, 1921. Serial No. 144,129. PUBLISHED JULY 5, 1921.

148,371. LEATHER BOOTS AND SHOES FOR MEN'S, WOMEN'S, AND CHILDREN'S USE. CARLISLE SHOE CO., Carlisle, Pa.
Filed March 26, 1921. Serial No. 145,252. PUBLISHED JULY 5, 1921.

148,372. CERTAIN NAMED MEDICINAL PREPARATIONS. MRS. GEORGIA M. CAUSEY, Macon, Ga.
Filed July 19, 1920. Serial No. 135,132. PUBLISHED JULY 19, 1921.

148,373. CERTAIN NAMED TOILET-BRUSHES, PAINT-BRUSHES, AND WHISK-BROOMS. THE CELLULOID COMPANY, New York, N. Y.
Filed February 18, 1918. Serial No. 109,071. PUBLISHED JULY 12, 1921.

148,374. CERTAIN NAMED TOILET-BRUSHES, PAINT-BRUSHES, AND WHISK-BROOMS. THE CELLULOID COMPANY, New York, N. Y.
Filed February 18, 1918. Serial No. 109,093. PUBLISHED JULY 12, 1921.

148,375. EYE-WATERS OR EYE-LOTIONS AND ANTISEPTIC AND HEALING OINTMENTS. CHARLES E. CASSNA, Chicago, Ill.
Filed January 8, 1921. Serial No. 141,965. PUBLISHED JULY 19, 1921.

148,376. PREPARED ROOFING IN ROLL, SHEET, OR SHINGLE FORM. THE CHATFIELD MANUFACTURING COMPANY, Cincinnati, Ohio.
Filed February 10, 1921. Serial No. 143,383. PUBLISHED JULY 12, 1921.

148,377. TOILET PREPARATIONS—NAMELY, TOILET CREAM, VANISHING CREAM, CLEANSING-CREAM, AND SHAMPOO. SIMMONS L. CREEK, Birmingham, Ala.
Filed January 4, 1921. Serial No. 141,829. PUBLISHED JULY 19, 1921.

148,378. CERTAIN NAMED ELECTRIC TOOLS, HOISTS, AND CIRCUIT-BREAKERS. CHICAGO PNEUMATIC TOOL COMPANY, Chicago, Ill.
Filed April 3, 1920. Serial No. 130,575. PUBLISHED JULY 12, 1921.

148,379. TREATMENT FOR PILES AND HEMORRHOIDS. H. P. CLEARWATER, Hallowell, Me.
Filed April 2, 1921. Serial No. 145,609. PUBLISHED JULY 19, 1921.

148,380. DENTAL INSTRUMENTS. THE CLEVELAND DENTAL MANUFACTURING COMPANY, Cleveland, Ohio.
Filed June 1, 1920. Serial No. 133,127. PUBLISHED JUNE 28, 1921.

148,381. CARTRIDGE-FUSES, FUSE-PLUGS, AND DYNAMO AND MOTOR BRUSHES. COOLEY MFG. CO. INC., New York, N. Y.
Filed October 17, 1919. Serial No. 123,874. PUBLISHED JULY 12, 1921.

148,382. A MEDICAL PREPARATION FOR THE TREATMENT OF RHEUMATISM. CO-REU-CU MEDICINE COMPANY, Owensboro, Ky.
Filed December 16, 1920. Serial No. 141,157. PUBLISHED JULY 5, 1921.

148,383. LEATHER SHOES. CRADDOCK-TERRY COMPANY, Lynchburg, Va.
Filed February 26, 1921. Serial No. 144,068. PUBLISHED JULY 5, 1921.

148,384. CANDY. CURTISS CANDY CO., Chicago, Ill.
Filed March 28, 1921. Serial No. 145,313. PUBLISHED JULY 19, 1921.

148,385. CANDY. CURTISS CANDY CO., Chicago, Ill.
Filed March 28, 1921. Serial No. 145,314. PUBLISHED AUGUST 2, 1921.

148,386. COTTON PIECE GOODS. RAFAEL DEL CASTILLO & CO., New York, N. Y.
Filed April 10, 1920. Serial No. 130,983. PUBLISHED FEBRUARY 8, 1921.

148,387. A MEDICINAL PREPARATION FOR CERTAIN NAMED USES. WALTER EDWARD DAYTON, Chattanooga, Tenn.
Filed April 2, 1920. Serial No. 130,524. PUBLISHED JULY 19, 1921.

148,388. SNAP-FASTENERS. THE DE LONG HOOK AND EYE COMPANY, Philadelphia, Pa.
Filed May 12, 1921. Serial No. 147,600. PUBLISHED JULY 12, 1921.

148,389. PACKING AND HOSE OF ALL KINDS MADE OF ASBESTOS. DICK'S ASBESTOS COMPANY, London, England.
Filed June 24, 1919. Serial No. 119,883. PUBLISHED JULY 19, 1921.

148,390. PASTE AND DRY PAINTS, VARNISHES, PRIMERS, PAINT ENAMELS, JAPAN COLORS, AND UNDERCOATINGS. DITZLER COLOR COMPANY, Detroit, Mich.
Filed December 24, 1920. Serial No. 141,482. PUBLISHED JULY 12, 1921.

148,391. A SUBSTITUTE FOR COFFEE, THE BASE OF WHICH IS OATS AND PHOSPHATES. LOUIS DONNET, Nice, France.
Filed March 17, 1921. Serial No. 144,852. PUBLISHED AUGUST 2, 1921.

148,392. PRINTED BOOKS. DORRANCE & COMPANY, INC., Philadelphia, Pa.
Filed February 15, 1921. Serial No. 143,592. PUBLISHED JULY 12, 1921.

148,393. BROAD-SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed August 29, 1919. Serial No. 122,200. PUBLISHED JULY 19, 1921.

148,394. BROAD-SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed May 17, 1921. Serial No. 147,823. PUBLISHED JULY 12, 1921.

148,395. HAND-WOVEN TAPESTRY AND NEEDLE-POINT. EDGEWATER TAPESTRY LOOMS, INC., Edgewater, N. J., and New York, N. Y.
Filed March 18, 1921. Serial No. 144,901. PUBLISHED JULY 5, 1921.

148,396. COTTON PIECE GOODS, SILK AND COTTON FABRIC, LAWNS, DIMITIES IN THE PIECE, AND HANDKERCHIEFS. EDSON MOORE & COMPANY, Detroit, Mich.
Filed May 6, 1920. Serial No. 132,103. PUBLISHED JULY 19, 1921.

148,397. PHONOGRAPH-RECORDS. EMERSON PHONOGRAPH COMPANY, INC., New York, N. Y.
Filed March 22, 1921. Serial No. 145,059. PUBLISHED JULY 12, 1921.

148,398. MOTOR OR HAND FLOOR-TRUCKS. THE EQUIPMENT MANUFACTURING COMPANY, Cleveland, Ohio.
Filed June 10, 1919. Serial No. 119,411. PUBLISHED JULY 12, 1921.

148,399. POLISHES FOR AUTOMOBILES, FURNITURE, AND THE LIKE. HARVEY A. ESTLEY, Northumberland, Pa.
Filed March 11, 1921. Serial No. 144,610. PUBLISHED JULY 5, 1921.

148,400. HATS AND CAPS FOR MEN AND CHILDREN AND HATS FOR WOMEN. ETCHISON HAT COMPANY, INC., Richmond, Va.
Filed March 5, 1921. Serial No. 144,315. PUBLISHED JULY 5, 1921.

148,401. UNDERWEAR — NAMELY, SLEEPING-GARMENTS. THE E-Z WAIST COMPANY, New York, N. Y.
Filed March 17, 1921. Serial No. 144,855. PUBLISHED JULY 5, 1921.

148,402. A CHEMICAL PREPARATION USED AS A PREVENTIVE OF OFFSETTING AND SMUDGING OF PRINTING. LOUIS L. FARKAS, New York, N. Y.
Filed July 19, 1920. Serial No. 135,143. PUBLISHED JULY 19, 1921.

148,403. CHEWING-GUM. HENRY C. FAUST, St. Louis, Mo.
Filed March 15, 1921. Serial No. 144,768. PUBLISHED AUGUST 2, 1921.

148,404. DRESSING-SACKS, NEGLIGÉES, AND UNDERGARMENTS. K. A. FROBE & CO., Brooklyn, N. Y.
Filed March 12, 1921. Serial No. 144,671. PUBLISHED JULY 5, 1921.

148,405. PACKING MADE WHOLLY OR PARTLY OF RUBBER OR OF COMPOSITION MATERIAL. THE FEDERAL RUBBER COMPANY, Cudahy, Wis.
Filed May 31, 1919. Serial No. 119,064. PUBLISHED JULY 12, 1921.

148,406. WHEAT-FLOUR. FISHER FLOURING MILLS COMPANY, Seattle, Wash.
Filed April 11, 1921. Serial No. 146,003. PUBLISHED JULY 12, 1921.

148,407. LUBRICATING-OILS. FORD AUTO SUPPLY COMPANY, St. Louis, Mo.
Filed March 18, 1920. Serial No. 129,879. PUBLISHED JULY 12, 1921.

148,408. ELECTRIC-BATTERY TESTERS. FOREST ELECTRIC CO., Newark, N. J.
Filed March 23, 1921. Serial No. 145,103. PUBLISHED JULY 12, 1921.

148,409. MILK PRODUCTS, ICE-CREAMS, SHERBETS, AND FROZEN ICES. FROZNPURE MILK PRODUCTS CO., Birmingham, Ala.
Filed March 27, 1920. Serial No. 130,271. PUBLISHED JULY 12, 1921.

148,410. SOAPS FOR LAUNDRY AND TOILET PURPOSES, FOR REMOVING GREASE AND STAINS FROM FABRICS, AND FOR POLISHING CUT GLASS AND KITCHEN UTENSILS. RUSSELL RAYMOND FRASIER, Eldora, Iowa.
Filed December 30, 1919. Serial No. 126,628. PUBLISHED JULY 12, 1921.

148,411. LAXATIVE COMPOUNDS. ARMAND A. GARDOS, Cleveland, Ohio, assignor to The United Drug and Candy Mfg. Co., Cleveland, Ohio, a Corporation of Ohio.
Filed July 26, 1918. Serial No. 112,335. PUBLISHED MAY 25, 1920.

148,412. LUBRICATING-GREASES. GRARO MFG. CO., Quincy, Ill.
Filed March 26, 1921. Serial No. 145,263. PUBLISHED JULY 12, 1921.

148,413. SHAVING-BRUSHES. GEO. R. GIBSON CO., New York, N. Y.
Filed December 11, 1920. Serial No. 140,938. PUBLISHED JULY 12, 1921.

148,414. TALKING-MACHINES AND PIANOS. GODFREY M. GILBERT, Chicago, Ill.
Filed May 6, 1921. Serial No. 147,284. PUBLISHED JULY 12, 1921.

148,415. CANDY. THE MAX GLICK CO., Cleveland, Ohio.
Filed February 23, 1921. Serial No. 143,940. PUBLISHED JULY 12, 1921.

148,416. LITHOPONE, (A MANUFACTURED PRODUCT WHICH IS USED AS A BASE IN THE MANUFACTURE OF PAINTS.) THE GLIDDEN COMPANY, Cleveland, Ohio.
Filed February 19, 1921. Serial No. 143,815. PUBLISHED JULY 5, 1921.

148,417. RUBBER TIRES OF ALL KINDS. SOLOMON H. GOLDBERG, Chicago, Ill.
Filed June 4, 1919. Serial No. 119,191. PUBLISHED JULY 19, 1921.

148,418. NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. GOLDELLE GINGER ALE CO. INC., Chicago, Ill.
Filed February 12, 1921. Serial No. 143,498. PUBLISHED JULY 5, 1921.

148,419. HOSE MADE OF RUBBER, REINFORCED WITH FABRIC AND A HELIX OF METAL. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed May 3, 1920. Serial No. 131,965. PUBLISHED JULY 19, 1921.

148,420. BLANK FORMS COMPOSING AN EFFICIENCY-SERVICE SYSTEM FOR DENTISTS. GLENN A. GRAHAM, Lapeer, Mich.
Filed March 28, 1921. Serial No. 145,333. PUBLISHED JULY 12, 1921.

148,421. WHEAT-FLOUR. GREAT WEST MILL & ELEVATOR CO., Amarillo, Tex.
Filed April 11, 1921. Serial No. 146,013. PUBLISHED JULY 12, 1921.

148,422. WHEAT-FLOUR. GREAT WEST MILL & ELEVATOR CO., Amarillo, Tex.
Filed April 11, 1921. Serial No. 146,015. PUBLISHED JULY 12, 1921.

148,423. LEATHER, CANVAS, AND CLOTH SHOES AND SLIPPERS. WILLIAM GREILICH & SONS, INC., Brooklyn, N. Y.
Filed February 18, 1921. Serial No. 143,756. PUBLISHED JULY 12, 1921.

148,424. A BOUTONNIÈRE, BADGE, INSIGNIA, OR DECORATION COMPRISING AN ARTIFICIAL POPPY-FLOWER. ANNA BOULLE GUERIN, New York, N. Y.
Filed June 3, 1921. Serial No. 148,594. PUBLISHED JULY 12, 1921.

148,425. A CERTAIN NAMED POULTRY MEDICINE. WILLIAM T. HADLEY, Ontario, Calif.
Filed March 30, 1921. Serial No. 145,452. PUBLISHED JULY 19, 1921.

148,426. LACES, VEILS, NETS, TRICOT-CLOTH AND MILANESE CLOTH IN THE PIECE. H. S. HALL & CO. INC., Jersey City, N. J.
Filed April 30, 1921. Serial No. 147,022. PUBLISHED JULY 12, 1921.

148,427. NEEDLES, TOILET-PINS, BODKINS, KNITTING-PINS, AND CROCHET-HOOKS. WILLIAM HALL & CO., LIMITED, Studley, England.
Filed September 1, 1920. Serial No. 136,705. PUBLISHED JULY 12, 1921.

148,428. NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND SYRUPS FOR MAKING THE SAME. WELLINGTON C. HATHAWAY, Hattiesburg, Miss.
Filed September 25, 1919. Serial No. 123,120. PUBLISHED DECEMBER 30, 1919.

148,429. TIRE-REPAIR EQUIPMENT, CONSISTING OF RETREADING, SECTIONAL REPAIR, RELINING, AND OTHER MOLDS, AND CLAMPS. HAYWOOD TIRE & EQUIPMENT COMPANY, Marion, Ind.
Filed July 13, 1920. Serial No. 134,895. PUBLISHED AUGUST 2, 1921.

148,430. PIECE GOODS OF COTTON AND PIECE GOODS OF MUSLIN. ELI HELLER, New York, N. Y.
Filed April 25, 1921. Serial No. 146,705. PUBLISHED JULY 12, 1921.

148,431. PRECIOUS STONES—VIZ., RUBIES, EMERALDS, AND PEARLS. L. HELLER & SON, INC., New York, N. Y.
Filed February 18, 1921. Serial No. 143,760. PUBLISHED JULY 12, 1921.

148,432. A FOOD-FLAVORING EXTRACT FOR IMPARTING A MAPLE FLAVOR. THOS. HENDERSON, New York, N. Y.
Filed March 16, 1921. Serial No. 144,814. PUBLISHED JULY 26, 1921.

148,432. WHEAT-FLOUR. SAMUEL W. HERSHEY, York, Pa.
Filed March 30, 1921. Serial No. 145,488. PUBLISHED JULY 12, 1921.

148,434. DRESSED POULTRY. GEORGE F. HENRICHS INC., New York, N. Y.
Filed March 21, 1921. Serial No. 145,030. PUBLISHED AUGUST 2, 1921.

148,435. MACHINES FOR ROASTING FOOD PRODUCTS. THE HOBART MANUFACTURING COMPANY, Troy, Ohio.
Filed January 10, 1921. Serial No. 142,017. PUBLISHED JULY 19, 1921.

148,436. MACHINE-PUMPS. THE HODGSON PUMP COMPANY LIMITED, Bamber Bridge, near Preston, England.
Filed January 11, 1921. Serial No. 142,069. PUBLISHED JULY 19, 1921.

148,437. PILE FABRICS WITH CUT, LOOPED, OR CURLED PILE OF CERTAIN NAMED MATERIALS. A. HORNIGSBERGER, Chicago, Ill.
Filed March 15, 1921. Serial No. 144,776. PUBLISHED JULY 5, 1921.

148,438. CARPETS AND RUGS, NOT INCLUDING FELT AND FUR RUGS AND RUBBER MATS. HOME WEAVING WORKS, Chicago, Ill.
Filed April 2, 1921. Serial No. 145,625. PUBLISHED JULY 19, 1921.

148,439. A NON-ALCOHOLIC, NON-CEREAL, MALT LESS BEVERAGE SOLD AS A SOFT DRINK. HOOTCH MFG. CO., Fort Wayne, Ind.
Filed March 28, 1921. Serial No. 145,334. PUBLISHED JULY 12, 1921.

148,440. MERCURY USED IN DENTISTRY. HOOVER & STRONG, INC., Buffalo, N. Y.
Filed May 10, 1920. Serial No. 132,252. PUBLISHED JULY 19, 1921.

148,441. LEATHER BOOTS AND SHOES. F. M. HOYT SHOE COMPANY, Manchester, N. H.
Filed March 21, 1921. Serial No. 145,512. PUBLISHED JULY 19, 1921.

148,442. FULLERS' EARTH, FOSSIL EARTH, AND CRUDE TAR. THOS. HUBBUCK & SONS LIMITED, London, England.
Filed October 9, 1919. Serial No. 123,577. PUBLISHED JULY 19, 1921.

148,443. A CEREAL MALT BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. OF ALCOHOL, BY VOLUME, AND SOLD AS A SOFT DRINK. THE INDEPENDENT BREWERIES COMPANY, St. Louis, Mo.
Filed December 21, 1920. Serial No. 141,375. PUBLISHED JULY 19, 1921.

148,444. STARTERS, MOTORS, DYNAMOS, AND RAIL-BASES THEREFOR. CROCKER-WHEELER COMPANY, Ampere, N. J.
Filed June 7, 1921. Serial No. 148,795. PUBLISHED AUGUST 16, 1921.

148,445. PNEUMATIC VEHICLE-TIRES COMPOSED OF RUBBER OR FABRIC AND RUBBER AND INNER TUBES. THE INDIA TIRE AND RUBBER COMPANY, Akron and Mogadore, Ohio.
Filed April 6, 1921. Serial No. 145,786. PUBLISHED JULY 19, 1921.

148,446. DRY, PASTE, AND READY-MIXED PAINTS. INDUSTRIAL PAINT COMPANY, Leetsdale Borough and Fair Oaks, Pa.
Filed March 3, 1921. Serial No. 144,286. PUBLISHED JULY 5, 1921.

148,447. DRY, PASTE, AND READY-MIXED PAINTS. INDUSTRIAL PAINT COMPANY, Leetsdale Borough and Fair Oaks, Pa.
Filed March 3, 1921. Serial No. 144,287. PUBLISHED JULY 5, 1921.

148,448. MATTRESSES, PILLOWS, AND BOX-SPRINGS. INTERNATIONAL BEDDING CO. INC., Baltimore, Md.
Filed May 21, 1920. Serial No. 132,741. PUBLISHED JULY 19, 1921.

148,449. MATTRESSES, PILLOWS, AND BOX-SPRINGS. INTERNATIONAL BEDDING CO. INC., Baltimore, Md.
Filed July 7, 1920. Serial No. 134,647. PUBLISHED JULY 19, 1921.

148,450. PAMPHLETS AND BOOKLETS PUBLISHED PERIODICALLY AT LEAST ONCE A YEAR. THE INTERNATIONAL COMPANY, Baltimore, Md.
Filed April 9, 1921. Serial No. 145,948. PUBLISHED JULY 19, 1921.

148,451. NON-ALCOHOLIC, CEREAL BEVERAGES CONTAINING MALT, SOLD AS SOFT DRINKS, CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. OF ALCOHOL, BY VOLUME. JACKSON BREWING COMPANY, New Orleans, La.
Filed July 7, 1920. Serial No. 134,649. PUBLISHED JULY 19, 1921.

148,452. AUTOMOBILE-TIRES CONSTRUCTED OF RUBBER AND FABRIC. EDWARD A. JAQUINS, Los Angeles, Calif.
Filed March 15, 1920. Serial No. 129,722. PUBLISHED JULY 19, 1921.

148,453. CLAY-MASHERS AND POTATO-MASHERS. CLARENCE E. JENKINS, Keene, N. H.
Filed April 6, 1921. Serial No. 145,950. PUBLISHED JULY 19, 1921.

148,454. PHOTOGRAPHS. CLARENCE B. JOHNSON, Minneapolis, Minn.
Filed April 9, 1921. Serial No. 145,952. PUBLISHED JULY 19, 1921.

148,455. GENERAL TONIC. M. KANN & CO., Philadelphia, Pa.
Filed January 3, 1921. Serial No. 141,783. PUBLISHED JUNE 28, 1921.

148,456. CERTAIN NAMED OILS AND WAXES, &c. KATZENBACH & BULLOCK CO., New York, N. Y.
Filed February 5, 1921. Serial No. 143,215. PUBLISHED JULY 12, 1921.

148,457. SILK PIECE GOODS. JULIUS KAYSER & CO., New York, N. Y.
Filed April 5, 1921. Serial No. 145,750. PUBLISHED JULY 12, 1921.

148,458. FIRE-HYDRANTS, INDICATOR-POSTS, AND CERTAIN VALVES. THE KENNEDY VALVE MFG. CO., Elmira, N. Y.
Filed February 1, 1918. Serial No. 108,748. PUBLISHED JULY 19, 1921.

148,459. CERTAIN ARTICLES OF CLOTHING. THE KIRSCHENBAUM CORPORATION, Baltimore, Md.
Filed April 1, 1921. Serial No. 145,567. PUBLISHED JULY 19, 1921.

148,460. DRESSES. KOHN, LEINHARDT & SIMON, INC., New York, N. Y.
Filed March 26, 1921. Serial No. 145,275. PUBLISHED JULY 5, 1921.

148,461. INSECTICIDE POWDERS, INSECTICIDE LIQUIDS, AND DISINFECTANTS. KOLOMAN KOVACS, Duquesne, Pa.
Filed March 14, 1921. Serial No. 144,727. PUBLISHED JULY 5, 1921.

148,462. CORSETS, BRASSIÈRES, CORSET-COVERS, AND WAISTS. KOPS BROS., New York, N. Y.
Filed March 25, 1921. Serial No. 145,221. PUBLISHED JULY 5, 1921.

148,463. WATCHES, WATCHCASES, WATCH-DIALS, AND WATCH-MOVEMENTS. ED KUMMER LIMITED, Bettlach, Switzerland, and New York, N. Y.
Filed April 5, 1920. Serial No. 130,678. PUBLISHED JULY 12, 1921.

148,464. CERTAIN ARTICLES OF CLOTHING. LEADER MANUFACTURING CO., Baltimore, Md.
Filed December 3, 1920. Serial No. 140,892. PUBLISHED JULY 12, 1921.

148,465. INFANTS' AND CHILDREN'S SHOES, SLIPPERS, AND MOCCASINS. LOCKE SHOE COMPANY, Wheeling, W. Va.
Filed March 2, 1921. Serial No. 144,209. PUBLISHED JULY 5, 1921.

148,466. COAL. LOGAN CREEK COAL COMPANY, Peevee, Ky., and Detroit, Mich.
Filed March 30, 1921. Serial No. 145,494. PUBLISHED JULY 12, 1921.

148,467. COAL. LOGAN CREEK COAL COMPANY, Peevee, Ky., and Detroit, Mich.
Filed March 30, 1921. Serial No. 145,495. PUBLISHED JULY 12, 1921.

148,468. MEN'S DRESS-SHIRTS. LORD & TAYLOR, New York, N. Y.
Filed February 25, 1921. Serial No. 144,698. PUBLISHED JULY 5, 1921.

148,469. INSECT-POWDERS. MCCORMICK & CO., Baltimore, Md.
Filed March 30, 1920. Serial No. 130,382. PUBLISHED JULY 19, 1921.

148,470. CANDIES AND CHOCOLATES. J. G. MCDONALD CHOCOLATE CO., Salt Lake City, Utah.
Filed April 28, 1921. Serial No. 146,058. PUBLISHED JULY 26, 1921.

148,471. RUBBER AND RUBBERIZED FABRIC TIRES, CASINGS, RUBBER TUBES, TIRE-PATCHES. THE MCLEAN TIRE & RUBBER COMPANY, Cleveland, Ohio.
Filed March 19, 1920. Serial No. 129,963. PUBLISHED JULY 26, 1921.

148,472. VULCANIZING-PATCHES. MAGIC AUTO DEVICE COMPANY, INC., Lyndhurst, N. Y.
Filed October 30, 1919. Serial No. 134,382. PUBLISHED JULY 12, 1921.

148,473. SOAP PASTE. MAGNESIUM PRODUCTS CO. INC., New York, N. Y.
Filed June 28, 1920. Serial No. 134,255. PUBLISHED JULY 19, 1921.

148,474. NON-ALCOHOLIC MALT EXTRACTS. MALT-DIASTASE COMPANY, New York, N. Y.
Filed March 21, 1921. Serial No. 145,521. PUBLISHED JULY 19, 1921.

148,475. CERTAIN ARTICLES OF CLOTHING. MANES & GOVERNEUR INC., New York, N. Y.
Filed December 24, 1920. Serial No. 141,497. PUBLISHED JULY 12, 1921.

148,476. CANDY. CLARENCE MAY, Chicago, Ill.
Filed July 8, 1920. Serial No. 134,730. PUBLISHED JULY 12, 1921.

148,477. SOAPS. FRANK A. MEISSNER, Grand Rapids, Mich.
Filed April 19, 1921. Serial No. 146,331. PUBLISHED JULY 12, 1921.

148,478. MEN'S SOCKS. ISRAEL MICHELSOHN, New York, N. Y.
Filed March 26, 1921. Serial No. 145,227. PUBLISHED JULY 5, 1921.

148,479. CERTAIN TOOLS FOR METAL-WORKING MACHINERY. JULIUS MILLSTEAD, Boston, Mass.
Filed March 18, 1920. Serial No. 129,915. PUBLISHED JULY 12, 1921.

148,480. A MIXTURE OF SILK AND JERSEY IN THE PIECE. JACOB MILLER SONS & CO., Philadelphia, Pa.
Filed June 28, 1920. Serial No. 134,077. PUBLISHED JULY 19, 1921.

148,481. GUIDES AND TIPS FOR FISHING-RODS. MITCHELL-BRIDGE COMPANY, New York, N. Y.
Filed May 11, 1921. Serial No. 147,563. PUBLISHED AUGUST 9, 1921.

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148,482. CERTAIN NAMED ELECTRICAL APPARATUS. THE MONARCH ENGINEERING COMPANY, Dayton, Ohio.
Filed February 21, 1921. Serial No. 143,977. PUBLISHED JULY 12, 1921.

148,483. MALT EXTRACTS FOR FOOD PURPOSES. SAMUEL H. MORRIS, New York, N. Y.
Filed November 21, 1919. Serial No. 124,758. PUBLISHED JULY 19, 1921.

148,484. FOR USE ON NEWSPAPER-COLUMNS. EDGAR ALLAN MOSS, Marion, Ind.
Filed May 4, 1921. Serial No. 147,202. PUBLISHED JULY 12, 1921.

148,485. SNAP-FASTENERS. MOSSTWIN COMPANY, New York, N. Y.
Filed May 12, 1921. Serial No. 147,435. PUBLISHED JULY 12, 1921.

148,486. CURTAIN-FASTENERS AND PARTS THEREOF. G. W. J. MURPHY COMPANY, Amesbury, Mass.
Filed March 21, 1921. Serial No. 145,031. PUBLISHED JULY 5, 1921.

148,487. CURTAIN-FASTENERS AND PARTS THEREOF. G. W. J. MURPHY COMPANY, Amesbury, Mass.
Filed March 21, 1921. Serial No. 145,032. PUBLISHED JULY 5, 1921.

148,488. SOLE-LEATHER. JOS. MUSLMER & CO. INC., New York, N. Y.
Filed August 20, 1920. Serial No. 136,801. PUBLISHED JULY 12, 1921.

148,489. PHONOGRAPHS, TALKING-MACHINES, AND RECORDS. MUTUAL TRADING COMPANY, New York, N. Y.
Filed October 5, 1918. Serial No. 113,890. PUBLISHED FEBRUARY 22, 1919.

148,490. A GENERAL TONIC IN TABLET OR PILL FORM. DR. B. H. NEAL MEDICINE COMPANY, San Francisco, Calif.
Filed December 16, 1920. Serial No. 141,134. PUBLISHED JULY 19, 1921.

148,491. A DAILY NEWSPAPER. NEW ENGLAND NEWSPAPER PUBLISHING COMPANY, Boston, Mass.
Filed March 26, 1921. Serial No. 145,256. PUBLISHED JULY 5, 1921.

148,492. HAIR-NETS. NEW YORK MERCHANDISE COMPANY, New York, N. Y.
Filed May 17, 1921. Serial No. 147,839. PUBLISHED JULY 12, 1921.

148,493. HAIR-NETS. NEW YORK MERCHANDISE COMPANY, New York, N. Y.
Filed May 17, 1921. Serial No. 147,840. PUBLISHED JULY 12, 1921.

148,494. SNAP-FASTENERS. NEW YORK MERCHANDISE COMPANY, New York, N. Y.
Filed May 17, 1921. Serial No. 147,841. PUBLISHED JULY 12, 1921.

148,495. PRINTED BOOKS AND PAMPHLETS IN SERIES. EVA NIEMAN, Cincinnati, Ohio.
Filed February 16, 1921. Serial No. 143,774. PUBLISHED JULY 5, 1921.

148,496. NEGLIGÉE AND OUTING SHIRT CUFFS. THE NU-KUFF CO., Russellville, Ark.
Filed June 23, 1918. Serial No. 111,870. PUBLISHED JULY 19, 1921.

148,497. CERTAIN NAMED CONSTRUCTION MATERIAL. N. V. INTERNATIONALE MIJNBEHEER COMPAGNIE, Rotterdam, Netherlands.
Filed May 22, 1920. Serial No. 132,792. PUBLISHED JULY 19, 1921.

148,498. CANE-MOLASSES FOR STOCK-FEEDING PURPOSES. OSBORNE & BURNS CO., Chicago, Ill.
Filed December 28, 1920. Serial No. 141,601. PUBLISHED JULY 12, 1921.

148,499. A CEREAL SUBSTITUTE FOR COFFEE, AND FOR COFFEE AND THIS SUBSTITUTE BLENDED TOGETHER. DANIEL J. O'SHEA, Le Roy, N. Y.
Filed October 2, 1919. Serial No. 123,962. PUBLISHED JULY 19, 1921.

148,500. POWDERS FOR CONFECTIONERS' USE, FLAVORING EXTRACTS, PIE-FILLINGS, SYRUPS FOR MAKING CANDIES. HENRY H. OTTENS MFG. CO., INC., Philadelphia, Pa.
Filed October 12, 1920. Serial No. 138,230. PUBLISHED JULY 19, 1921.

148,501. COMPOSITION SHEET-PACKING. PACIFIC COAST RUBBER & SUPPLY CO., San Francisco, Calif.
Filed April 9, 1921. Serial No. 145,963. PUBLISHED JULY 19, 1921.

148,502. PRINTED MAGAZINES ISSUED MONTHLY. PACIFIC DRUG REVIEW, Portland, Oreg.
Filed April 21, 1921. Serial No. 146,497. PUBLISHED JULY 5, 1921.

148,503. UPRIGHT, GRAND, PLAYER, AND REPRODUCING PIANOS. THE PACKARD PIANO COMPANY, Fort Wayne, Ind.
Filed May 9, 1921. Serial No. 147,455. PUBLISHED JULY 12, 1921.

148,504. DRESSES AND COSTUMES. PANSY WAIST CO., New York, N. Y.
Filed February 16, 1921. Serial No. 143,656. PUBLISHED JULY 5, 1921.

148,505. CERTAIN NAMED PAINTS, ENAMELS, COLORS, AND POLISHES. PATEK BROTHERS, Milwaukee, Wis.
Filed March 28, 1921. Serial No. 145,122. PUBLISHED JULY 5, 1921.

148,506. A RETORT FOR PRODUCING GAS, TAR, AND CREOSOTE FROM STRAW AND OTHER VEGETABLE MATERIALS. FRANK PFEIFER AND BERNARD R. PFEIFER, Fargo, N. D.
Filed December 31, 1920. Serial No. 141,783. PUBLISHED JULY 19, 1921.

148,507. FINGER-RINGS AND OTHER ARTICLES OF JEWELRY OF PRECIOUS METAL, NOT INCLUDING WATCHES. PROSL & SCHALLER, New York, N. Y.
Filed April 30, 1921. Serial No. 147,046. PUBLISHED JULY 12, 1921.

148,508. CANDY. THE PISIKA CHOCOLATE CO. INC., Brooklyn, N. Y.
Filed April 9, 1921. Serial No. 145,964. PUBLISHED JULY 19, 1921.

148,509. CERTAIN NAMED COPYING AND DUPLICATING APPARATUS. JOHN PLUCKROSE, London, England.
Filed October 4, 1919. Serial No. 123,452. PUBLISHED JULY 12, 1921.

148,510. WHEAT-FLOUR. THE POAGE-WALL MILLING COMPANY, Catlettsburg, Ky.
Filed March 19, 1921. Serial No. 144,980. PUBLISHED JUNE 28, 1921.

148,511. CANDIES. POCAHONTAS CANDY CO., Washington, D. C.
Filed February 24, 1921. Serial No. 143,997. PUBLISHED AUGUST 2, 1921.

148,512. WRITING-INK AND INK FOR TYPEWRITER CARBONS AND RIBBONS AND CARBON-PAPERS FOR TYPEWRITERS. POLYGON INK COMPANY, London, England.
Filed May 4, 1920. Serial No. 132,029. PUBLISHED JULY 19, 1921.

148,513. CHARMS FOR PERSONAL WEAR WHICH ARE MADE OF OR PLATED WITH PRECIOUS METAL. POTTER & BUFFINTON CO., Providence, R. I.
Filed April 15, 1921. Serial No. 146,284. PUBLISHED JULY 12, 1921.

148,514. EMBOSSING-MACHINES AND CUTTING AND PUNCHING DIES. PHARMAPIX CORPORATION OF AMERICA, New York, N. Y.
Filed February 17, 1921. Serial No. 143,702. PUBLISHED JULY 12, 1921.

148,515. BOUILLON CUBES, VEGETABLE AND BEEF EXTRACTS IN SOLID AND FLUID FORM, AND MAYONNAISE SALAD-DRESSING. PURE FOOD FACTORY "HANSA," Mamaroneck, N. Y.
Filed February 23, 1921. Serial No. 143,948. PUBLISHED AUGUST 2, 1921.

148,516. ICE-CREAM. PURITAN ICE CREAM CO., Newark, N. J.
Filed March 25, 1921. Serial No. 145,280. PUBLISHED AUGUST 2, 1921.

148,517. VARIOUS LINES OF PIECE GOODS—NAMELY, SILK, SILK AND COTTON, COTTON, WOOLEN, AND WORSTEDS. GEORGE J. QUINN & COMPANY INC., New York, N. Y.
Filed December 14, 1920. Serial No. 141,080. PUBLISHED JULY 19, 1921.

148,518. LUBRICATING-OILS. RADIUM OIL COMPANY, Cincinnati, Ohio.
Filed May 27, 1921. Serial No. 148,848. PUBLISHED AUGUST 9, 1921.

148,519. AUTOMOBILE-BUMPERS. RAMSPRING BUMPER CO., Chicago, Ill.
Filed May 12, 1921. Serial No. 147,640. PUBLISHED JULY 12, 1921.

148,520. HOT-WATER BOTTLES, ICE-BAGS, INVALID-CUSHIONS, BACK-RESTS, SYRINGES, SPUTUM CUPS, &c. REID BROS., Seattle, Wash., and San Francisco, Calif.
Filed May 1, 1918. Serial No. 110,588. PUBLISHED JULY 19, 1921.

148,521. ICE-CREAM. THE REMAR COMPANY, Oakland, Calif.
Filed December 28, 1920. Serial No. 141,603. PUBLISHED JULY 12, 1921.

148,522. GRAY-HAIR RESTORER IN THE NATURE OF A HAIR-COLORING. THE REMOVO COMPANY, Syracuse, N. Y.
Filed June 9, 1920. Serial No. 133,498. PUBLISHED JULY 5, 1921.

148,523. STERLING AND PLATED FLAT AND HOLLOW SILVERWARE AND ARTICLES OF JEWELRY. BERNARD RICE'S SONS, New York, N. Y.
Filed April 28, 1921. Serial No. 146,928. PUBLISHED JULY 12, 1921.

148,524. SCISSORS. RIKKERS BROS. INC., New York, N. Y.
Filed April 24, 1920. Serial No. 131,506. PUBLISHED JULY 12, 1921.

148,525. MEN'S COATS, VESTS, PANTS, AND OVERCOATS. ROSENBERG BROS. & CO., Rochester, N. Y.
Filed March 26, 1921. Serial No. 145,291. PUBLISHED JULY 5, 1921.

148,526. RAINCOATS. HARRY ROSENBERG, New York, N. Y.
Filed December 29, 1919. Serial No. 126,594. PUBLISHED JULY 12, 1921.

148,527. DRESSES, CLOAKS, AND SUITS. ROSENTHAL & TARSOFF INC., New York, N. Y.
Filed March 26, 1921. Serial No. 145,293. PUBLISHED JULY 12, 1921.

148,528. ACID-PROOF NON-FERROUS METALS FOR BEARINGS. ALLAN C. RYAN, Elyria, Ohio.
Filed May 7, 1920. Serial No. 132,147. PUBLISHED JULY 19, 1921.

148,529. NEGLIGÉE, DRESS, AND WORK SHIRTS. HARRY SALTZMAN, New York, N. Y.
Filed February 26, 1921. Serial No. 144,111. PUBLISHED JULY 5, 1921.

148,530. STYLOGRAPHIC PENS. SALS BROTHERS, New York, N. Y.
Filed April 5, 1921. Serial No. 145,920. PUBLISHED JULY 19, 1921.

148,531. DENTIFRICE. SAVBALL DENTIFRICE CO., Chicago, Ill.
Filed February 7, 1921. Serial No. 143,801. PUBLISHED JULY 12, 1921.

148,532. CANNED SARDINES. SEACOAST CANNING CO., Eastport, Me.
Filed October 11, 1912. Serial No. 66,251. PUBLISHED JULY 19, 1921.

148,533. WASHABLE COTTON DRESS MATERIALS IN THE PIECE. M. E. SMITH & CO., INC., Omaha, and Farnam, Nebr.
Filed June 28, 1920. Serial No. 134,836. PUBLISHED JULY 19, 1921.

148,534. SUBSTANCES CHIEFLY COMPOSED OF COMMINUTED IRON IN POWDER AND PLASTIC FORM FOR CERTAIN PURPOSES. SMOOTH-ON MANUFACTURING COMPANY, Jersey City, N. J.
Filed June 22, 1920. Serial No. 134,042. PUBLISHED JULY 12, 1921.

148,535. TRACTORS. SOCIÉTÉ LYONNAISE D'INDUSTRIE MECANIQUE, Lyon-St. Clair-Calure, France.
Filed March 9, 1921. Serial No. 144,544. PUBLISHED JULY 5, 1921.

148,536. SUITS FOR YOUNG MEN AND BOYS. SONNEBORN BROTHERS, New York, N. Y.
Filed February 17, 1920. Serial No. 128,535. PUBLISHED JULY 19, 1921.

148,537. CERTAIN NAMED VEGETABLES. SOUTHERN PRODUCE COMPANY, Norfolk, Va.
Filed March 7, 1921. Serial No. 144,434. PUBLISHED JULY 12, 1921.

148,538. OVERALLS AND WORK-SHIRTS. STANDARD OVERALL COMPANY, Baltimore, Md.
Filed April 2, 1921. Serial No. 145,653. PUBLISHED JULY 19, 1921.

148,539. NATURAL MINERAL WATER. STATE OF NEW YORK, Saratoga Springs, N. Y.
Filed February 14, 1921. Serial No. 143,569. PUBLISHED JULY 12, 1921.

148,540. INSECTICIDES—NAMELY, ROACH, BED-BUG, AND ANT DESTROYERS. ST. LOUIS INSECTICIDE AND SPECIALTY CO., St. Louis, Mo.
Filed March 27, 1920. Serial No. 130,298. PUBLISHED JULY 19, 1921.

148,541. INSECTICIDES—NAMELY, ROACH, BED-BUG, AND ANT DESTROYERS. ST. LOUIS INSECTICIDE AND SPECIALTY CO., St. Louis, Mo.
Filed March 27, 1920. Serial No. 130,299. PUBLISHED JULY 19, 1921.

148,542. A REMEDY FOR STOMACH DISORDERS. STOM-A-LAX MEDICINE CO., Sanford, Fla.
Filed May 10, 1919. Serial No. 118,356. PUBLISHED AUGUST 9, 1921.

148,543. A MEDICINAL PREPARATION FOR HEADACHE, NEURALGIA, COLDS, GRIPPE, AND RHEUMATIC PAINS. OSWALD B. STAUB, St. Louis, Mo.
Filed February 5, 1921. Serial No. 143,240. PUBLISHED JULY 12, 1921.

148,544. COTTON SHEETING IN THE PIECE. TAYLOR CLAFF & BEALL, New York, N. Y.
Filed May 20, 1921. Serial No. 148,002. PUBLISHED JULY 12, 1921.

148,545. LAUNDRY BLUING. TIP TOP BLUING WORKS, Detroit, Mich.
Filed March 14, 1921. Serial No. 144,755. PUBLISHED JULY 5, 1921.

148,546. OPTICAL LENSES. TITMUS OPTICAL CO., INC., Petersburg, Va.
Filed January 18, 1920. Serial No. 127,100. PUBLISHED JULY 12, 1921.

148,547. CANDY. TRU BLU BISCUIT CO., Spokane, Wash.
Filed April 16, 1921. Serial No. 146,279. PUBLISHED JULY 26, 1921.

148,548. A CERTAIN NAMED MEDICINAL POWDER. HENRY C. TRUMBOWER, Philadelphia, Pa.
Filed December 14, 1920. Serial No. 141,084. PUBLISHED JUNE 28, 1921.

148,549. WOVEN-WIRE SCREEN-CLOTH. THE W. S. TYLER COMPANY, Cleveland, Ohio.
Filed February 14, 1921. Serial No. 143,579. PUBLISHED JULY 5, 1921.

148,550. TYPEWRITING-MACHINES AND TYPEWRITING-MACHINE PARTS. UNDERWOOD TYPEWRITER CO., New York, N. Y.
Filed March 12, 1921. Serial No. 144,698. PUBLISHED JULY 12, 1921.

148,551. AUTOMOBILE ACCESSORIES—NAMELY, AUTO-TUBES OF RUBBER, (BLACK, RED, AND GRAY.) UNITED AUTO STORES, INCORPORATED, Philadelphia, Chester, Reading, Pottsville, and Allentown, Pa., and Atlantic City, N. J.
Filed March 7, 1921. Serial No. 144,440. PUBLISHED JULY 5, 1921.

148,552. PUS-PANS, BEDPANS, DOUCHE-PANS, FEMALE URINAL, MALE URINAL, SEAMLESS IRRIGATOR, AND SEAMED IRRIGATOR. UNITED DRUG COMPANY, Boston, Mass.
Filed March 30, 1920. Serial No. 130,395. PUBLISHED JULY 12, 1921.

148,553. CERTAIN ARTICLES OF CLOTHING. UNITED TURKEY RED COMPANY, LIMITED, Glasgow, Scotland.
Filed December 16, 1920. Serial No. 141,195. PUBLISHED JULY 12, 1921.

148,554. COTTON PIECE GOODS. THE UNITED TURKEY RED COMPANY, LIMITED, Glasgow, Scotland.
Filed February 16, 1921. Serial No. 143,675. PUBLISHED JULY 12, 1921.

148,555. PAINT ENAMELS, PASTE AND READY-MIXED PAINTS, FILLERS, AND OTHER PAINT-COATINGS. UNKEFER VARNISH COMPANY, Chicago, Ill.
Filed February 12, 1921. Serial No. 143,522. PUBLISHED JULY 12, 1921.

148,556. PAINT ENAMEL FOR DECORATIVE PURPOSES. WADSWORTH-HOWLAND COMPANY, Chicago, Ill.
Filed December 28, 1920. Serial No. 141,617. PUBLISHED JULY 12, 1921.

148,557. IMPREGNATED OR COATED WOVEN FABRICS—NAMELY, IMITATION LEATHER, AND WATERPROOF CLOTH. WESTERN CARTRIDGE COMPANY, East Alton and Springfield, Ill.
Filed February 17, 1921. Serial No. 143,727. PUBLISHED JULY 12, 1921.

148,558. TALKING-MACHINES AND PARTS THEREOF. CARL J. WILLENBORG, Jr., Hoboken, N. J.
Filed March 23, 1921. Serial No. 145,145. PUBLISHED JULY 12, 1921.

148,559. OLIVE-OIL. GEO. WOLFF & CO., San Francisco, Calif.
Filed February 28, 1921. Serial No. 144,168. PUBLISHED AUGUST 2, 1921.

148,560. HOSIERY FOR MEN, WOMEN, AND CHILDREN. WOLFINGER KNITTING MILLS, Reading, Pa.
Filed May 21, 1920. Serial No. 132,765. PUBLISHED JULY 19, 1921.

148,561. COTTON PIECE GOODS—MANILLA, CAMBRICS, NAINSOOKS, AND WIDE SHEETINGS—AND SHEETS AND PILLOW-CASES. WYMAN, PARTRIDGE & Co., Minneapolis, Minn.
Filed April 26, 1921. Serial No. 146,785. PUBLISHED JULY 12, 1921.

148,562. AN EGG SUBSTITUTE IN COOKING AND BAKING. J. S. KIRKLIN COMPANY, (now by change of name Dwight B. McCurdy Company,) Chicago, Ill.
Filed September 28, 1918. Serial No. 113,462. PUBLISHED JULY 12, 1921.

148,563. HOSIERY FOR MEN, WOMEN, AND CHILDREN. ESTEL & SUCKENBRAUN, New York, N. Y.
Filed March 28, 1921. Serial No. 143,982. PUBLISHED JULY 12, 1921.

148,564. THE TITLE OF A MAGAZINE PUBLISHED AND SOLD MONTHLY. MYRON KOSEL, Los Angeles, Calif.
Filed May 5, 1921. Serial No. 147,270. PUBLISHED JULY 12, 1921.

TRADE-MARK REGISTRATIONS GRANTED

(ACT OF MARCH 19, 1920, SEC. 1 (b)).

NOVEMBER 15, 1921.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

148,565. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE AKRON TRUSS COMPANY, Akron, Ohio. Filed Nov. 13, 1920. Serial No. 139,800.

Akron

Particular description of goods.—Trusses, Including Pads.
Claims use since 1906.

148,566. (CLASS 37, PAPER AND STATIONERY.) ABOUS MANUFACTURING COMPANY, Chicago, Ill. Filed June 3, 1921. Serial No. 148,572.

NEVER-LOSE

Particular description of goods.—Eraser for Typists' Use.
Claims use since Aug. 1, 1917.

148,567. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE AMERICAN TURPENTINE COMPANY, Cleveland, Ohio. Filed May 6, 1921. Serial No. 147,273.

HORNEBLENDE

Particular description of goods.—Industrial Heat and Flame Protective Metal Paint, Ready-Mixed House-Paint, Barn, Roof, and Bridge Paint, Concrete-Waterproofing Cement Paint, Porch and Floor Paint, White Paste Paint, Ammonia-Pipe Paint, Quick-Drying Enamel, Enamel Undercoat, Asbestos-Fiber Fire-Resisting Liquid-Coating Compound, Interior Varnish, Floor and Linoleum Varnish, Exterior Varnish, Furniture-Varnish, Thinners' Bod, Shingle-Stains.
Claims use since about Oct. 18, 1915.

148,568. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JUNIUS HARDY BAILEY, Macon, Ga. Filed August 3, 1921. Serial No. 151,905.

BAILEY'S SUPREME

Particular description of goods.—Coffee.
Claims use since August 1, 1920.

148,569. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ADOLPH BENZ, Jr., Peoria, Ill. Filed Aug. 3, 1921. Serial No. 151,909.

Benz

Particular description of goods.—Noodles.
Claims use since Sept. 1, 1918.

148,570. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BETHLEHEM STEEL COMPANY, Bethlehem, Pa. Filed June 2, 1921. Serial No. 148,530.

BETHLEHEM

Particular description of goods.—Frames for Metal-Working.
Claims use since April, 1920.

148,571. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BICKMORE COMPANY, Old Town, Me. Filed July 21, 1921. Serial No. 150,724.

BICKMORE'S

Particular description of goods.—External Remedies—Namely, a Family-Liniment and a Skin-Ointment and a Liniment and a Healing-Powder for Live-Stock.
Claims use since Feb. 6, 1900.

148,572. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Clarence W. Brown, Philadelphia, Pa. Filed July 16, 1921. Serial No. 150,435.

HONEY-SPUN

Particular description of goods.—Candies.
Claims use since Jan. 1, 1920.

148,573. (CLASS 7. CORDAGE.) Columbian Rope Company, Auburn, N. Y. Filed Aug. 5, 1921. Serial No. 151,447.

COLUMBIAN ROPE CO

Particular description of goods.—Rope, Twine, and Cordage of Vegetable Fiber.
Claims use since June 1, 1904.

148,574. (CLASS 28. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Davis Machine Tool Company, Inc., Rochester, N. Y. Filed June 12, 1917. Serial No. 104,405.

Close Coupled

Particular description of goods.—Lathes.
Claims use since June 1, 1917.

148,575. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) Henry L. De Zeng, Camden, N. J. Filed April 25, 1921. Serial No. 146,697.

De Zeng

Particular description of goods.—Medical and Surgical Appliances Consisting of Eye, Ear, Nose, and Throat Diagnostic Instruments, Including Pharyngoscopes, Otoscopes, Speculums, Tongue Depressors, &c.
Claims use since May 6, 1906.

148,576. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) Eng-Skell Company, Inc., San Francisco, Calif. Filed Jan. 29, 1921. Serial No. 142,926.

BERKELEY CREAM

Particular description of goods.—Non-Alcoholic, Maltless Beverage Sold as a Soft Drink and Flavoring for the Same.
Claims use since 1902.

148,577. (CLASS 20. BROOMS, BRUSHES, AND DUSTERS.) The James Lowe Shaving Co., New York, N. Y. Filed Jan. 6, 1921. Serial No. 141,995.

SOLID SET

Particular description of goods.—Shaving-Brushes.
Claims use since about December, 1916.

148,578. (CLASS 20. BROOMS, BRUSHES, AND DUSTERS.) The Folberth Auto Specialty Co., Cleveland, Ohio. Filed July 9, 1921. Serial No. 150,188.

FOLBERTH

Particular description of goods.—Windshield-Cleaners, Squeegee Type.
Claims use since Jan. 1, 1920.

148,579. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) M. M. Gassen Co., Duluth, Minn. Filed June 6, 1921. Serial No. 148,731.

MOOSE LAKE

Particular description of goods.—Butter.
Claims use since 1919.

148,580. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Geigy Company, Inc., New York, N. Y. Filed July 26, 1920. Serial No. 135,418.

Diazophenyl

Particular description of goods.—Dyestuffs.
Claims use since 1910.

148,581. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) Robert Harding, New York, N. Y. Filed Nov. 8, 1916. Serial No. 99,167.

PERFECTION

Particular description of goods.—Dynamo and Electric-Motor Brushes—Namely, Copper-Woven-Wire Brushes, Bronze-Woven-Wire Brushes, Copper-Leaf Brushes, Carbon Brushes, Graphite Brushes, Copper-Graphite-Composition Brushes, Brush-Holders for Dynamo and Electric-Motor Brushes.
Claims use since June, 1886.

148,582. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF.) S. S. Hepworth Company, New York, N. Y. Filed May 16, 1921. Serial No. 147,781.

MACKINTOSH

Particular description of goods.—Centrifugal Driers, Centrifugal Filters, and Centrifugal Separators and Unloaders, Conveyers, Elevators, and Mixers Therefor.
Claims use since 1910.

148,583. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Hood River Apple Vinegar Co., Hood River, Oreg. Filed Aug. 3, 1921. Serial No. 151,317.

HOOD RIVER

Particular description of goods.—Vinegar.
Claims use since November, 1916.

148,584. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) Hurff-Peck & Company, Indianapolis, Ind. Filed Jan. 3, 1921. Serial No. 141,778.

Cherry Mellow

Particular description of goods.—Non-Alcoholic, Maltless Beverage Sold as a Soft Drink.
Claims use since February, 1920.

148,585. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Independent Canning Co., Chicago, Ill. Filed May 24, 1921. Serial No. 146,147.

BARRON

Particular description of goods.—Canned Vegetables.
Claims use since Dec. 21, 1911.

148,586. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) Keystone Albumen & Paint Company, Philadelphia, Pa. Filed Dec. 6, 1920. Serial No. 140,658.

ALBUMEN

Particular description of goods.—Ready-Mixed and Paste Paints, Enamel Paints, and Flat Wall-Finishes.
Claims use since about 1900

148,587. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Keystone Albumen & Paint Company, Philadelphia, Pa. Filed Dec. 6, 1920. Serial No. 140,659.

TANNERS ALBUMEN

Particular description of goods.—A Preparation for Use in the Tanning of Hides and Leather.
Claims use since about 1900.

148,588. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) James S. Kirk & Company, Chicago, Ill. Filed July 7, 1921. Serial No. 150,112.

KIRKOLIVE

Particular description of goods.—Toilet Soap.
Claims use since on or about July 12, 1915.

148,589. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) La Meda Manufacturing Company, Chicago, Ill. Filed Nov. 22, 1920. Serial No. 139,264.

La Meda
Cold Creamed Powder

Particular description of goods.—Cold-Creamed Powders.
Claims use since November, 1917.

148,590. (CLASS 15. OILS AND GREASES.) Larsen Oil Co., Inc., Providence, R. I. Filed May 9, 1921. Serial No. 147,427.

NUN-BET-ER

Particular description of goods.—Gasolene.
Claims use since Mar. 4, 1920.

148,591. (CLASS 43. THREAD AND YARN.) H. R. Locke & Company, Inc., Boston, Mass. Filed July 21, 1919. Serial No. 120,759.

ALLSTON

Particular description of goods.—Thread and Yarn.
Claims use since January, 1899.

148,592. (CLASS 44. FOODS AND INGREDIENTS OF FOODS.) Lion & Greenway, Liquors, Ltd. Filed Oct. 8, 1920. Serial No. 133,666.

EVER GOOD

Particular description of goods.—Wheat-Flour.
Claims use since Sept. 18, 1920.

148,593. (CLASS 20. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) W. S. Mershon Company, Bedford, Ind. Filed Apr. 1, 1921. Serial No. 145,574.

Splint

Particular description of goods.—Steels for Sharpening.
Claims use since 1910.

148,594. (CLASS 40. KNITTED, NETTED, AND TEXTILE FABRICS.) Jacob Mandel Sons & Co, Philadelphia, Pa. Filed Sept. 16, 1920. Serial No. 137,265.

CHARING

Particular description of goods.—Piece Goods of Cotton, Silk, Linen, Mixtures of Cotton and Silk and Linen and Silk.
Claims use since Aug. 31, 1920.

148,595. (CLASS 14. METAL AND METAL CASTINGS AND FORGINGS.) Morey Flux & Chemical Company, Inc., Parkersburg, Pa. Filed May 19, 1921. Serial No. 147,983.

Morey

Particular description of goods.—Welding and Brazing Rods of Certain Metals and Metallic Electric Welding-Rods.
Claims use since Jan. 2, 1912.

148,596. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Parke, Davis & Company, Detroit, Mich. Filed May 2, 1921. Serial No. 147,134.

LACTONE

Particular description of goods.—Buttermilk Tablets for Medicinal Use.
Claims use since 1909.

148,597. (CLASS 32. BROOMS, BRUSHES, AND BRUSHMAKERS' STOCK.) Pittsburgh Plate Glass Company, Kenwood-Klenzle Division, Baltimore, Md. Filed Mar. 7, 1921. Serial No. 144,421.

SERVICE

Particular description of goods.—Paint, Varnish, Whitewash, Calcimine, Plasterers', Paper-Hangers', Dusting, Sweeping, Artists', Stencil, Glue, Scrubbing, Washing, and Rubbing Brushes.
Claims use since May 28, 1919.

148,598. (CLASS 32. BROOMS, BRUSHES, AND DUSTERS.) Pittsburgh Plate Glass Company, Kenwood-Klenzle Division, Baltimore, Md. Filed Mar. 7, 1921. Ser. No. 144,422.

EFFICIENCY

Particular description of goods.—Paint, Varnish, Whitewash, Calcimine, Plasterers', Paper-Hangers', Dusting, Sweeping, Artists', Stencil, Glue, Scrubbing, Washing, and Rubbing Brushes.
Claims use since May 28, 1919.

148,599. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) Simeon L. & George H. Rogers Company, Hartford, Conn. Filed Jan. 8, 1921. Serial No. [illegible].

Simeon L. & George H. Rogers Company

Particular description of goods.—Silver-Plated Flat and Hollow Ware.
Claims use since 1901.

148,600. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Rudolph Scheibler Inc., New York, N. Y. Filed Aug. 9, 1921. Serial No. 151,595.

WOOL WEAR

Particular description of goods.—Woolen Cloth in the Piece.
Claims use since about Jan. 1, 1917.

148,601. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Rudolph Scheibler Inc., New York, N. Y. Filed Aug. 10, 1921. Serial No. 151,638.

Standware

Particular description of goods.—Worsted Cloths in the Piece.
Claims use since about Jan. 1, 1912.

148,602. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Gotham Silversmiths Inc., New York, N. Y. Filed Aug. 10, 1921. Serial No. 151,639.

Peerless

Particular description of goods.—Woolen Cloth in the Piece.
Claims use since about Jan. 2, 1914.

148,603. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) E. & B. Sign Co. Inc., New York, N. Y. Filed May 8, 1920. Serial No. 132,210.

SEGMENT-ON WINDOW SIGN

Particular description of goods.—Electric Display-Signs for Windows and Storerooms.
Claims use since July 1, 1918.

148,604. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) Paul P. Sly, Santa Monica, Calif. Filed June 20, 1921. Serial No. 149,425.

Sly

Particular description of goods.—Soap and Soap Tablets for Laundry and Toilet Use.
Claims use since May 1, 1920.

148,605. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) Stovell-Patterson Hardware Co., Salt Lake City, Utah. Filed July 29, 1921. Serial No. 148,175.

Veribest

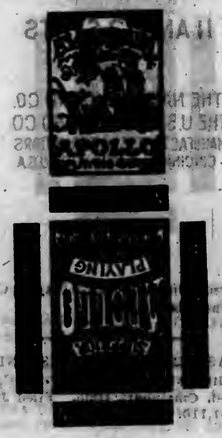
Particular description of goods.—Toy Sleds, Fishing-Tackle, and Toy Coaster-Wagons.
Claims use since Dec. 17, 1920.

148,606. (CLASS 20. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) The Tobbin Air Tool Company, Cleveland, Ohio. Filed May 23, 1920. Serial No. 138,071.

"AIR PLANER"

Particular description of goods.—Planers.
Claims use since September, 1917.

148,607. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) The United States Playing Card Company, East Norwood, Cincinnati, Ohio. Filed July 29, 1921. Serial No. 151,105.



Particular description of goods.—Playing-Cards.
Claims use since about 1888.

148,608. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) The United States Playing Card Company, East Norwood, Cincinnati, Ohio. Filed July 29, 1921. Serial No. 151,106.

89
Treasury
CLUB
PLAYING CARDS

U.S.PLAYING CARD CO.
CINCINNATI, U.S.A.

Particular description of goods.—Playing-Cards.
Claims use since about 1889.

148,609. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed July 29, 1921. Serial No. 151,109.

555
FULL-HOUSE
PLAYING CARDS
11 AND 12 SPOTS
THE NATIONAL CARD CO.
THE U.S. PLAYING CARD CO.
MANUFACTURERS & DISTRIBUTORS
CINCINNATI & NEW YORK, U.S.A.

Particular description of goods.—Playing-Cards.
Claims use since about 1920.

148,610. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed July 29, 1921. Serial No. 151,110.

88
JUMBO
BRIDGE
PLAYING CARDS
JUMBO INDEXES
The U.S. Playing Card Co.
CINCINNATI, U.S.A.

Particular description of goods.—Playing-Cards.
Claims use since about 1911.

148,611. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed July 29, 1921. Serial No. 151,112.



Particular description of goods.—Playing-Cards.
Claims use since about 1917.

148,612. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed July 29, 1921. Serial No. 151,113.

303
ARMY AND
NAVY
PLAYING CARDS
U.S. PLAYING CARD CO.
CINCINNATI, U.S.A.

Particular description of goods.—Playing-Cards.
Claims use since about 1880.

148,613. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed July 29, 1921. Serial No. 151,114.

93
IVORY
BRIDGE
PLAYING CARDS
U.S. PLAYING CARD CO.
CINCINNATI, U.S.A.

Particular description of goods.—Playing-Cards.
Claims use since about 1911.

148,614. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed July 29, 1921. Serial No. 151,124.



Particular description of goods.—Playing-Cards.
Claims use since about 1880.

148,615. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed July 29, 1921. Serial No. 151,125.



Particular description of goods.—Playing-Cards.
Claims use since 1917.

148,616. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Ohio. Filed July 29, 1921. Serial No. 151,126.



Particular description of goods.—Playing-Cards.
Claims use since about 1908.

148,617. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed July 29, 1921. Serial No. 151,127.



Particular description of goods.—Playing-Cards.
Claims use since about 1881.

148,618. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed July 29, 1921. Serial No. 151,129.



Particular description of goods.—Playing-Cards.
Claims use since about 1864.

148,619. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed July 29, 1921. Serial No. 151,130.

TROPHY
WHIST
PLAYING
CARDS
No. 39
THE U.S. PLAYING CARD CO.
CINCINNATI, U.S.A.

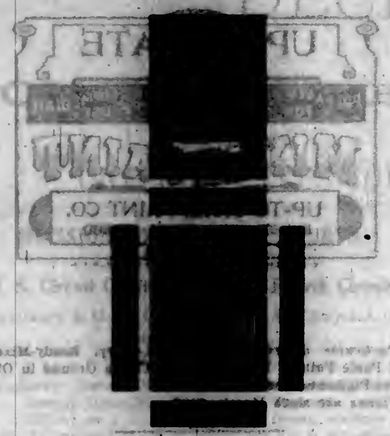
Particular description of goods.—Playing-Cards.
Claims use since about 1895.

148,620. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed July 29, 1921. Serial No. 151,132.



Particular description of goods.—Playing-Cards.
Claims use since about 1912.

148,621. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed July 29, 1921. Serial No. 151,133.



Particular description of goods.—Playing-Cards.
Claims use since about 1888.

148,622. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed July 29, 1921. Serial No. 151,134.

202
SPORTSMAN'S
PLAYING CARDS
U.S. PLAYING CARD CO.
CINCINNATI, U.S.A.

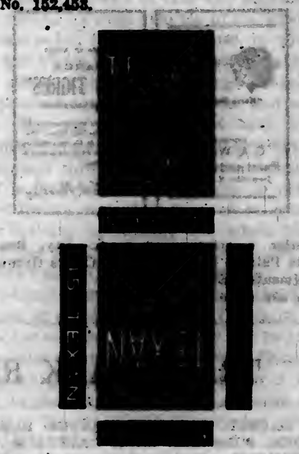
Particular description of goods.—Playing-Cards.
Claims use since about 1881.

148,623. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed July 29, 1921. Serial No. 151,135.



Particular description of goods.—Playing-Cards.
Claims use since about 1890.

148,624. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed Aug. 31, 1921. Serial No. 152,453.



Particular description of goods.—Playing-Cards.
Claims use since about 1888.

148,625. (CLASS 32. FURNITURE AND UPHOLSTERY.) WESTERN WIRE PRODUCTS CO., St. Louis, Mo. Filed July 2, 1921. Serial No. 149,992.

"NEVER SAG"

Particular description of goods.—Bed-Springs or Spring-Mattresses for Beds.
Claims use since 1912.

148,626. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) M. WETZSTEINS SONS, New York, N. Y. Filed Mar. 26, 1921. Serial No. 145,800.

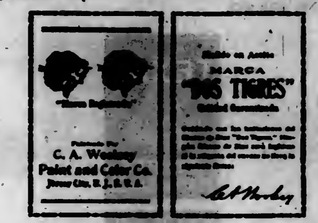


The trade mark consists of the legend "On the Tip of Every Tongue," which is used with the picture representation of a tongue, with the name "Wetzsteins" (in the possessive case) in red appearing on the tip of the tongue and a red arrow extending from the legend to "Wetzsteins."

Particular description of goods.—Cured and Smoked Tongues.

Claims use since November, 1917.

148,627. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) C. A. WOOLSEY PAINT & COLOR COMPANY, Jersey City, N. J. Filed June 29, 1921. Serial No. 149,838.



Particular description of goods.—Dry, Ready-Mixed, and Paste Paints; Dry Colors and Colors Ground in Oil; Paint-Pigments, and Varnishes.

Claims use since July, 1915.

148,628. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) C. A. WOOLSEY PAINT & COLOR COMPANY, Jersey City, N. J. Filed June 29, 1921. Serial No. 149,839.



Particular description of goods.—Dry, Ready-Mixed, and Paste Paints; Dry Colors and Colors Ground in Oil; Paint-Pigments, and Varnishes.

Claims use since March, 1920.

148,629. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE YOUNGSTOWN SHEET & TUBE COMPANY, Youngstown, Ohio. Filed Apr. 22, 1921. Serial No. 146,614.

COALINGA

Particular description of goods.—Iron and Steel Pipe and Pipe-Couplings.

Claims use since Sept. 23, 1909.

TRADE-MARK REGISTRATIONS RENEWED.

30,027. CAUSTIC SODA, CHLORATES, BLEACHING-POWDER, SODA-ASH, SODA CRYSTALS, AND BICARBONATES. Registered August 11, 1891. THE UNITED ALKALI COMPANY, LIMITED. Renewed August 11, 1921.

DECISIONS
OF THE
COMMISSIONER OF PATENTS
AND OF
UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

U. S. Circuit Court of Appeals—Fourth Circuit.

BALTIMORE & O. R. CO. *v.* WALTER S. NEWHALL CO.

Decided July 5, 1921.

(274 Fed. Rep., 869.)

1. PATENTS—DEVICE NOT USING ELEMENT OF PATENTED DEVICE HELD NOT TO INFRINGE PATENT.

A patent on a plant for thawing frozen contents of cars by inclosed stalls in which hot air is introduced, which may be deflected by means of dampers to other stalls, is not infringed by a plant of the same construction, where the stalls are independent and separate and no use is made of dampers for deflecting air-currents.

2. SAME—CHANGE IN PLAN OF CONSTRUCTION OF PLANT HELD TO AVOID INFRINGEMENT OF PATENT.

Where a plant for thawing frozen contents of cars was being constructed to use dampers for deflecting air-currents in such a way as to infringe a patent covering such a plant, but the plan of construction was changed by securely closing the openings left for the dampers with plates, there is no infringement of the patent, though the plates could be removed and the dampers mounted with little expense.

3. SAME—No. 1,044,230, CLAIMS 20, 23, FOR THAWING APPARATUS, HELD NOT INFRINGED.

Patent No. 1,044,230, claims 20 and 23, for plant for thawing frozen contents of cars, *Held* not infringed.

4. SAME—FILING OF SUPPLEMENTAL BILL FOR INFRINGEMENT HELD UNNECESSARY.

Where an interlocutory decree over a year before enjoined infringement of a patent, and the final decree provided that the injunction should continue, except with respect to a released plant, the filing of a supplemental bill for an injunction with respect to another plant was unnecessary.

Appeal from the District Court of the United States for the District of Maryland, at Baltimore; John C. Rose, judge.

Suit by the Walter S. Newhall Company against the Baltimore & Ohio Railroad Company. From a decree for plaintiff (258 Fed., 650) defendant appeals. Reversed.

Mr. Arthur C. Fraser (*Mr. Duncan K. Brent* on the brief) for the appellant.

Mr. Albert H. Bates and *Mr. Maurice B. Saul* (*Messrs. Bates & Mecklin*, *Messrs. Prichard, Saul, Bayard & Evans*, and *Messrs. Haman, Cook, Chesnut & Markell* on the brief) for the appellee.

Before KNAPP, Circuit Judge, and SMITH and WATKINS, District Judges.

KNAPP, *Cir. J.*:

The appellee, Walter S. Newhall Company, plaintiff below, is the owner of Letters Patent No. 1,044,230, issued November 12, 1912, for an apparatus for thawing the contents of freight-cars which have become frozen. This suit involves its use for thawing cars of coal in that condition. Briefly described, the apparatus consists of a train-shed long enough to hold a number of cars and provided with doors for closing its ends. On top of the shed, at an intermediate point, is a blower-house, in which air is heated and blown through appropriately arranged ducts or conduits, and the openings therein, and thereby directed against the bottoms and sides of the cars. The air is then sucked back into the blower-house, to be again heated and driven through the ducts, and thus kept in constant circulation. The shed is made of sufficient width to cover the number of tracks desired to be used in connection with the thawing apparatus, and when built for more than one track is divided by partitions into as many compartments as there are tracks.

After protracted negotiations with plaintiff for the construction of a thawing plant at Curtis Bay, Md., the defendant rejected its proposals and in January, 1916, gave the contract to the Surety Engineering Company, which offered to build it for a smaller sum and to protect defendant from suits for infringement. The work was begun soon afterward and appears to have been completed some months later. Claiming that the plant as built infringed its patent, plaintiff brought this suit in December, 1916. In the meantime defendant had decided to construct another thawing plant at Arlington, Staten Island, twice the size of the one at Curtis Bay. Plaintiff was a bidder for this work also, but was again underbid by the Surety Engineering Company, to which the contract was awarded in August of that year. The original bill, however. was confined to the Curtis Bay plant, as was the evidence at the first trial in the early part of June, 1917. On the 23d of that month the court below filed an opinion holding that four of the twenty-three claims of the patent were valid, and that two of them, 20 and 23,

had been infringed (243 Fed., 615.) An interlocutory decree was entered on the 6th of September, enjoining defendant from further infringement of these claims, and providing for the taking of testimony in open court on the question of damages. The final decree of November 19, 1917, awarded plaintiff $5,500 for actual damages and $4,600 for litigation expenses, or a total of $9,500, which defendant subsequently paid without appeal. It was agreed that the damages then under consideration should be limited to the Curtis Bay plant, and that plaintiff should have the right to proceed thereafter in regard to the Arlington plant.

Accordingly, on February 1, 1919, plaintiff filed a supplemental bill relating to that plant, pleading the prior adjudication and alleging the same infringement as in the original bill, especially of claims 20 and 28. The answer denied infringement and set up other defenses. The result of the second trial was a decision, reasons for which are stated in an opinion, sustaining the charges of infringement as to the two claims mentioned, and awarding actual damages in the sum of $11,000, with $7,418.85 added for expenses, or a total of $18,418.85. For reasons which may be omitted, this total was by stipulation reduced to $18,028.44, for which final decree was entered October 6, 1919. From that decree defendant appeals.

[1] The underlying question takes a two-fold form. To what extent, if at all, does the Arlington structure infringe the plaintiff's patent? And to what damages, if any, is the plaintiff entitled? The claims held to be infringed read as follows:

20. In an apparatus of the class described, the combination of two train sheds side by side, individual hot air and return ducts for each shed, a blowing apparatus connected with the ducts of both sheds, and dampers adapted to reverse the action of such apparatus to either shed.

28. In an apparatus of the class described, the combination of a train shed, a blower room located at an intermediate point at the top of the train shed, a pair of blowers in said blower room discharging in opposite directions, means for conducting air from each blower through the train shed and returning it to the blowers, and means for heating such air.

It seems obvious that these claims would not be infringed by a thawing apparatus of the same general type as the one under review, if it were so constructed that each of the side by side sheds or stalls was wholly independent of the other and there was no opening in the partition between them; for the invention held valid and infringed is the device of dampers, consisting of sheet-metal doors adapted to be positioned to deflect the air, by means of which the heated air from the fan of one stall can be diverted into the ducts of the adjoining stall as occasion may require. As the learned district judge says in his opinion:

With the dampers in place, claims 20 and 28 are infringed. Without these appliances, there is no infringement.

It appears to be conceded, and will be assumed, that if the Arlington plant had been built as originally designed and intended, and as contracted for, it would have infringed these two claims the same as does the Curtis Bay plant; for the specifications on which the contract was based state, among other things:

Four separate duplicate units are provided. Each unit is primarily intended to serve one stall. The unit for stall No. 1, by an arrangement of dampers, can be made to serve stall No. 2. In like manner, the unit for stall No. 2 can be made to serve stall No. 1. A like combination will develop in the case of stalls Nos. 3 and 4.

But defendant asserts that the plant was not built in that way, with "an arrangement of dampers," or with any dampers at all, and it therefore becomes important to know what the facts are in that regard. As above recited, the contract was let in August, 1916, but the plant was not finished and turned over by the contractor until the latter part of December of the following year. In the course of construction openings were made where dampers were to be placed with hinges on their frames on which the dampers were to be hung. The dampers themselves were fabricated for at least two stalls, though apparently not completed with corresponding hinges. They were once "stood in place" for a short time, "jammed and wedged in place," in stalls 3 and 2 only, to permit an experimental test of the heating capacity of the furnaces, but were not otherwise used. They were never put in a normal or operative position, and certainly never employed to deflect heated air from one stall to another.

[2, 3] In July or August, 1917, after the decision in the Curtis Bay case, orders were issued to do away with the dampers altogether, and not long afterward they were entirely removed. The openings were covered with plates of galvanized steel of the same material and thickness as the walls of the ducts, to which they were firmly bolted. It is not perceived that the work could well have been done in a more suitable or substantial manner. We cannot believe that defendant was bound, under the conditions then existing, to demolish this expensive building and erect another with solid partitions between the stalls; it was enough to close the openings securely, as it did, and to abandon definitely the plan and purpose of using dampers. True, the plates could be taken off and dampers mounted in a comparatively short time and at no great expense; but for all practical purposes the altered structure was as devoid of dampers as though originally so designed. Each stall became a separate and independent thawing apparatus unrelated to the others except by proximity. As one witness says:

You could take any one away without interfering with any of the others.

And as another witness says:

So far as the operation is concerned they might have been built as four separate units, spaced apart.

In short, while the plant was still incomplete and unusable, the damper feature was wholly eliminated by an effective and permanent change of construction. The trial court finds that it "was never used in its infringing form by the defendant," and in point of fact it seems not to have been used in any form prior to January 1, 1918, when all the

properties of defendant were taken over by the Government.

Taking into account these facts, which are either undisputed or appear to be established by the clear weight of evidence, we are unable to see that the Arlington plant infringes or ever has infringed the plaintiff's patent. As we read the record, all that fairly can be said is that, if this plant had been built as designed and contracted for in August, 1916, it would have infringed the two claims which nearly a year later were held valid and infringed in the case of the Curtis Bay plant. But it was not so built. Shortly after the decision in that case was announced, and before the interlocutory decree was entered, and while the structure was so far from completion as to be incapable of use for thawing purposes, the original design was changed as respects the parts here in dispute, all dampers discarded, the openings left therefor closed up as effectually as was practicable, and the plant finished in a wholly non-infringing form.

As will be observed, the patent in suit has but limited validity. It does not cover a complete thawing apparatus, or even an essential element of such an apparatus; it is confined to the type in which dampers are provided for deflecting the heated air from one stall to another. If that particular feature be left out, any one has the right to build a plant which otherwise copies the one at Curtis Bay. As the trial court decided, "without these appliances [dampers] there is no infringement," and we are convinced, after careful and repeated scrutiny of the evidence, that the Arlington plant did not have dampers at any stage of its construction, certainly not in any practical or substantial sense, and therefore has never infringed the claims in question. For of claim 28, which makes no mention of dampers but calls for a trainshed and "a pair of blowers" discharging in opposite directions, it is enough to say, as the court below inferentially held, that the elimination of dampers in effect eliminated the pair of blowers, since without dampers the combination described in this claim would not be operative.

The conduct of defendant, in appropriating a general plan which Newhall appears to have originated, may not be commendable—it is not for us to judge—but if it had the right to do what it did, as we are constrained to hold, the plaintiff has no legal ground of complaint and must be denied an award of damages. And if it be argued that the original design shows intent to infringe, the sufficient answer is that the intent was not carried into effect, and that beyond doubt infringement cannot be predicated upon mere intention. (*Sheffield* v. *Foundry Co.*, [C. C.,] 177 Fed., 713; *Luten* v. *Town of Lee*, [D. C.,] 206 Fed., 904.)

[4] It is only needful to add that plaintiff had no occasion to file the supplemental bill for the purpose of preventing a threatened or potential infringement, for the interlocutory decree of September, 1917, a year and a half before, granted an injunction—

against the defendant, its agents and employees, restraining further infringement of claims 20 and 28 of said patent;

while the final decree of November following, under which the Curtis Bay plant was to be released upon payment of the damages therein awarded, also provided, "but with that exception the injunction shall continue." The Arlington plant is manifestly covered by the injunction so granted and continued, and there is no suggestion that it has not been scrupulously obeyed by defendant.

It follows that the supplemental bill should have been dismissed, and the decree appealed from will accordingly be reversed.

ADJUDICATED PATENTS.

(U. S. C. C. A. Md.) The Newhall *et al.* patent, No. 1,044,230, for thawing apparatus, claims 20, 28, *Held* not infringed. *Baltimore & O. R. Co.* v. *Walter S. Newhall Co.*, 274 Fed. Rep., 889.

(U. S. D. C. N. Y.) The Gans patent, No. 1,195,923, for a water-softening apparatus, *Held* valid and infringed. *Permutit Co.* v. *Harvey Laundry Co.*, 274 Fed. Rep., 937.

Disclaimers.

993,031. *Clyde J. Coleman*, New York, N. Y. BRAKE-FACING. Patent dated May 23, 1911. Disclaimer filed November 5, 1921, by *John O. Bigelow, receiver of The Asbestos Brake Co.*, assignee.

Does hereby disclaim from said claims 16, 17, 18, 21 and 22 any brake-facing composed of compressible woven asbestos fibers, or a compressible woven asbestos textile fabric, or an asbestos fabric and a metallic reinforce, unless such asbestos fibers or fabric be combined with and reinforced by wires or metallic strands, as claimed in other claims of said Letters Patent.

And your petitioner disclaims said claim 20.

1,316,101. *Talbot G. Martin*, Chicago, Ill. TELEPHONE-EXCHANGE SYSTEM. Patent dated September 16, 1919. Disclaimer filed October 31, 1921, by the patentee, the assignee, *Automatic Electric Company*, consenting.

Enters this disclaimer—

"To claims 28, 29 and 30 in said specification which is in the following words, to wit:

"28. In a telephone system, a link circuit for extending connection between calling and called lines, fixed terminals for said link over which said link is seised, movable terminals for said link for extending the connection to a called line, a source of current, means for supplying current to said fixed terminals, means for supplying current to said movable terminals, and means for reversing the current supply to said movable terminals.

"29. In a telephone system, a link circuit for extending connection between calling and called lines, fixed terminals for said link over which said link is seised, movable terminals for said link for extending the connection to a called line, a source of current, means for supplying current to said fixed terminals, means for supplying current to said movable terminals, and means for reversing the current supply to said fixed and movable terminals.

"30. In a telephone system, an automatic progressively movable switch for extending connection between calling and called lines, fixed terminals for said switch over which said switch is seised, movable terminals for said switch for extending the connection to a called line, a source of current, means for supplying current to said fixed terminals, means for supplying current from said source to said movable terminals, and means for reversing the current supply to said movable terminals."

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Patents	722—No.	1,387,495 to No. 1,388,215,	inclusive.
Designs	26—No	59,699 to No. 59,724,	inclusive.
Trade-Marks	144—No.	168,630 to No. 168,774,	inclusive.
Labels	65—No.	23,652 to No. 23,716,	inclusive.
Prints	14—No.	5,831 to No. 5,844,	inclusive.
Reissues	9—No.	15,221 to No. 15,229,	inclusive.
Total	1055		

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE.
Washington, D. C., November 9, 1921.

Adolph Fuchs, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Joseph E. Pellegrino, Mamaroneck, N. Y., for patent and patent granted December 16, 1919, No. 1,326,193, to Adolph Fuchs, 289 Holbrook avenue, Detroit, Mich., and a notice of such declaration sent by registered mail to Fuchs at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Adolph Fuchs, his assigns or legal representatives, shall enter an appearance thereto within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., November 9, 1921.

Russel & Miller Milling Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Edgar O. Challenger, of Produce Exchange, New York, N. Y., for registration of a trade-mark and trade-mark registered December 24, 1895, No. 27,808, to Russel & Miller Milling Co., of Valley City, N. D., and West Superior, Wis., and a notice of such declaration sent by registered mail to said Russel & Miller Milling Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Russel & Miller Milling Co., its assigns or legal representatives, shall enter an appearance thereto within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., November 16, 1921.

Julius Medvecsky, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the patent of Francis W. Bonfoe, 1,366,898, dated January 25, 1921, and application for patent of Julius Medvecsky, 95 Wilbur avenue, Long Island City, N. Y., and a notice of such declaration sent by registered mail to Medvecsky at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Medvecsky, his assigns or legal representatives, shall enter an appearance thereto within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Assistant Commissioner.

The Official Gazette.

THE OFFICIAL GAZETTE is published every Tuesday simultaneously with the weekly issue of patents. From January 1, 1872, (the commencement of its publication,) to June 30, 1873, it was published and bound in semi-annual volumes; from July 1, 1873, to December 31, 1902, in quarterly volumes; from January 1, 1903, to December 31, 1906, in bimonthly volumes; since January 1, 1907, in monthly volumes. Terms: Annual subscriptions, $6; monthly, 50 cents. For postage upon foreign subscriptions, except those from Canada and Mexico, $3 or more, as required. Moneys received from foreign subscribers in excess of the subscription price of $6 will be deposited to the credit of the subscriber and applied to postage upon the subscription as incurred. Single copies, 10 cents; if mailed to foreign countries, excepting Canada and Mexico, 10 cents additional for postage. *Payment in advance required. No club rates. No discount to newsdealers. No sample copies.* All subscriptions must commence with the beginning of a volume. None taken for less than an entire volume. All orders should be addressed to "The Superintendent of Documents, Government Printing Office, Washington, D. C."

Amendment Under Rule 78.

The entry of an amendment under Rule 78 takes much more time than would its entry during the regular prosecution of the case, since the docket clerk must get the file from the Issue and Gazette Division, send it to the Examiner for report, submit it to the Commissioner, notify the applicant of the Commissioner's action, and if the petition is granted return the file to the Examiner for entry of the amendment.

Attorneys are therefore requested to take all possible steps to obviate the necessity of the presentation of such an amendment.

Condition of Applications Under Examination at Close of Business November 12, 1921.

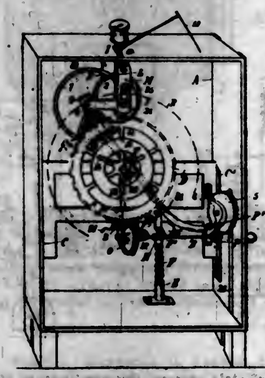
Room No.	Divisions, Examiners, and subjects of inventions. (Oldest new case, Nov. 5; oldest amended, Feb. 18.)	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	June 16	June 9	813
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Fermentation; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Jan. 13	Mar. 29	1,002
175	3. RICE, WM. J., Electric Heating and Electrolysis; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Mar. [illegible]	Dec. 24	897
234	4. MERRITT, A. D., Conveyers; Conveying Systems, Fluid-Current; Excavating; Hoisting—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pulling and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Nov. 27	May 13	1,721
167	5. MACNAIR, J. F., Book-Making; Boots, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Bands.	Jan. 26	Feb. 25	962
318	6. LEWERS, A. W., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Feb. 10	June 17	900
312	7. JARBOE, C. O., Games and Toys; Optics; Photography; Velocipedes.	Apr. 2	June 20	1,861
133	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Aug. 1	Sept. 20	622
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Jan. 8	Aug. 8	1,035
235	10. MITCHELL, T. H., Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Apr. 26	Aug. 25	1,066
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Buttons, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	July 23	July 27	443
222	12. PIERCE, F. F., Machine Elements.	Apr. 13	Aug. 15	1,096
339	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Drivers, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Dec. 4	Sept. 15	1,747
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Jan. 27	Aug. 11	875
308	15. BEDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Nov. 8	Feb. 26	1,776
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony.	Nov. 20	Mar. 1	1,751
307	17. RAFTER, G. S., Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Mar. 14	June 17	1,094
220	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Jan. 10	Mar. 5	1,571
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Jan. 3	Apr. 14	1,003
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	May 17	July 1	1,490
212	21. THURBER, W. L., Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Mar. 29	July 1	694
246	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making.	June 9	Sept. 3	530
217	23. GROESBECK, W. D., Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Jan. 6	June 30	821
144	24. DARBY, J. J., Apparel; Apparel Appendages; Garment Supporters; Sewing-Machines.	Feb. 9	June 10	1,661
315	25. LIGHTFOOT, J. H., Agitating; Batching; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Aug. 19	Aug. 6	318
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime Mover Dynamo Plants.	Apr. 19	May 19	798
214	27. ANDERSON, L. S., Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus.	Apr. 12	June 25	1,523
225	28. BENSON, A. E., Internal-Combustion Engines.	Feb. 7	May 13	1,000
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Cooperage; Tool Handle Fastening; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Feb. 17	Aug. 1	752
182	30. SULLIVAN, M. B., Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines.	Apr. 13	Sept. 10	1,357
173	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Dec. 6	Jan. 21	2,012
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange.	Feb. 1	Aug. 1	981
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Rods.	Apr. 28	June 3	751
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	Aug. 16	Sept. 20	810
62	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	Aug. 22	Aug. 30	694
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	June 25	June 6	1,553
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers.	Mar. 1	Mar. 8	1,597
378	38. IDE, G. B., Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationary; Stone-Working; Wells.	May 26	May 24	1,190
220	39. COWLES, A. W., Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings. Valves; Water Distribution.	Nov. 16	Feb. 12	1,897
273	40. OBERLIN, J. J., Bungs; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Jan. 10	Apr. 4	2,291
126	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels.	May 27	May 11	862
114	42. CUTTING, H. G., Electrical Conduits and Housings; Electric Signaling; Electric Lamps.	Dec. 7	Jan. 10	1,576
382	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Jan. 13	Feb. 10	1,631
253	44. SHAFFER, C. H., Air-Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration Ships.	Jan. 31	Sept. 27	406
379	45. GILES, A. H., Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices.	Apr. 16	May 31	1,183
383	46. WOLCOTT, C. L., Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Apr. 1	May 28	1,182
284	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid Pressure Brake and Analogous Systems.	Mar. 9	June 6	1,147
118	48. ROEPKE, G. B., Electricity, Conductors; Electricity, General Applications.	Jan. 4	Jan. 19	1,666
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, Jr.			
	Trade-Marks	Dec. 10	Aug. 1	4,120
	Designs	Mar. 21	Apr. 1	2,248
	Labels and Prints	Oct. 22	Oct. 25	288

Total number of applications awaiting action, excluding Trade-Mark division, 57,968; Trade-Mark division, 6,665.

PATENTS

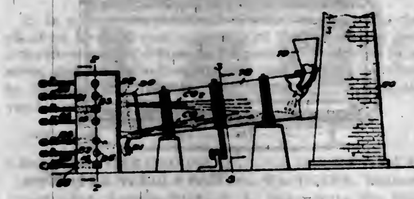
GRANTED NOVEMBER 22, 1921.

1,397,496. COMBINED APPARATUS FOR TAKING AND PROJECTING PICTURES. EMILE ALLAIS, Reims, France. Filed Aug. 6, 1914. Serial No. 855,481. 1 Claim. (Cl. 88—16.8.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



An apparatus of the character described for taking pictures comprising in combination, a casing, a movable frame within said casing, means for elevating and lowering said frame, support secured to the top of said casing and comprising a sleeve adapted to receive the objective for taking pictures, a flexible spring in front of said support, a disk having a sensitized surface between said support and said spring, means for partly covering said sensitized surface, and a shutter or sector for uncovering the non-covered parts of said surface for taking pictures, means for reducing the speed of the shutter and means for connecting said reducing means to said shutter, substantially as described.

1,397,497. PROCESS FOR CONVERTING SODIUM SULFATE TO SODIUM SULFID. ROBERT JAMES ANDERSON, El Paso, Tex., assignor to International Fuel Conservation Co., Phoenix, Ariz., a Corporation of Arizona. Original application filed Mar. 6, 1919, Serial No. 281,087. Divided and this application filed Sept. 30, 1920. Serial No. 413,752. 3 Claims. (Cl. 23—13.)



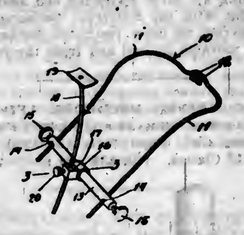
1. A process for the conversion of sodium sulfate to sodium sulfid consisting of the submission of sodium sulfate to the direct action of CO gases when at a temperature at which conversion may occur.

1,397,498. ICE-MANUFACTURING APPARATUS. JOHN P. BOYLE and WALTER A. INMAN, Chicago, Ill.; said Inman assignor to said Boyle. Filed June 8, 1918. Serial No. 239,009. 9 Claims. (Cl. 62—159.)



1. Ice manufacturing apparatus of the character described comprising a rigid substantially horizontally extending air supply pipe, a plurality of rigid substantially vertically extending tubes depending therefrom, and yieldable spring fingers carried by the pipe for rigidly joining the tubes to the pipe so that the pipe may be simultaneously disconnected from all of said tubes, after which said tubes may be removed from the ice by a substantially vertical movement thereof.

1,397,499. CHIN-SUPPORT. MICHAEL E. BRENNAN, Hudson, N. Y. Filed May 24, 1921. Serial No. 472,150. 3 Claims. (Cl. 27—25.)

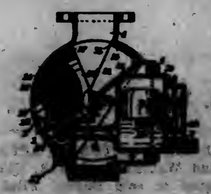


2. A device of the character described comprising a yoke of rigid material, a cross bar slidably adjustably connected with the arms of the yoke, a block member rotatably mounted upon said cross bar, and a chin support proper including a shank slidably adjustably connected with said block member.

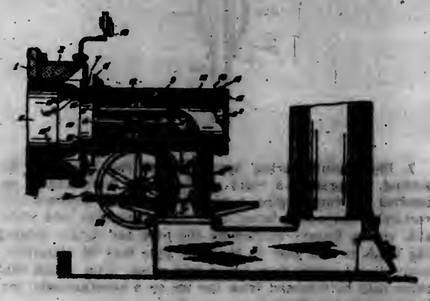
1,397,500. CARBURETER. CAY P. BUHL, Passaic, N. J. Filed Jan. 24, 1920. Serial No. 353,715. 1 Claim. (Cl. 261—44.)

A carbureter venturi means including a throat-forming member and a substantially ovoid air-flow obstructing member arranged in the throat of the first member and spaced therefrom, one of said members being shiftable relatively to the other in a path curved around an axis trans-

verse to and exterior of the throat and the throat being tapered and curved around said axis, the obstructing member having its smaller end projecting toward the smaller end of the throat.

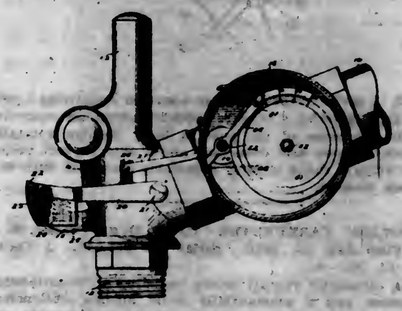


1,397,501. GAS-BURNER. WILBUR T. CLARK, Cleveland, Ohio, assignor of one-half to Patrick J. Moran, East Cleveland, Ohio. Filed Sept. 17, 1920. Serial No. 410,903. 17 Claims. (Cl. 158—7.)



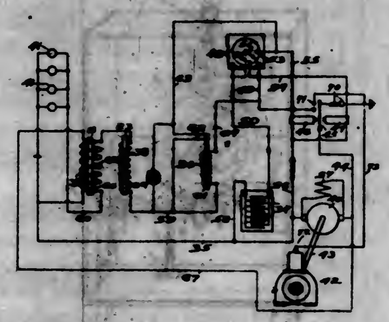
1. In a gas burner, the combination with a furnace having a combustion chamber; of a nozzle comprising concentric tubular conduits forming air and gas passages, the outer conduit extending beyond the inner and having a restricted discharge end; and a tubular casting fixed to the furnace, having an outer restricted end adapted to make a smooth joint with the restricted discharge end of said nozzle and having an inner restricted discharge end, said nozzle being movable toward and from the furnace.

1,397,502. COMBINED RECORDER AND REGISTER. RALPH BLANCHET CORMANY and ALBERT FRANKLIN HERRING, Rome, Ga. Filed Nov. 17, 1920. Serial No. 424,618. 15 Claims. (Cl. 234—84.)



1. In combination, a fluid dispensing mechanism including a support for the container into which the fluid is to be dispensed, a register, operating means for the register including a lever having a portion associated with the support, spring means for normally holding said lever arm spaced from said support, a pawl and ratchet mechanism actuated by said lever, a recorder associated with said register including a record sheet and a stylus adapted to mark the sheet to record the volume and to punch the sheet to record the frequency, a zero setting device for the register and common means to operate the stylus of the record to punch the sheet and actuate the zero setting device of the register.

1,397,503. ENGINE-CONTROLLER. MARK C. CONSTANT, Sandusky, Ohio, assignor to Matthews Engineering Company, Sandusky, Ohio, a Corporation of Ohio. Filed Jan. 28, 1918. Serial No. 214,131. 18 Claims. (Cl. 290—30.)



1. In an electric system, the combination of an engine driven shunt wound dynamo, a storage battery connected to the dynamo, a circuit having translating devices connected to the battery and the dynamo, means for regulating the speed of the engine, an electromagnetic means connected to the regulating means and located in the circuit of the battery and the translating devices and in the circuit of the terminals of dynamo, for keeping a substantially constant difference between the voltages of the dynamo and the battery notwithstanding the changes of the current flow in the circuit having the translating devices.

1,397,504. STERILIZING PROCESS. JACOB DINER, New York, N. Y., assignor to Manila Sterilizing Corporation, Manila, Philippine Islands, a Corporation of the Philippine Islands. Filed Oct. 2, 1920. Serial No. 414,258. 4 Claims. (Cl. 167—3.)



1. The herein described process of sterilizing packaged tobacco products, consisting in subjecting the packed tobacco products to a dry heating action, within a hermetically sealed compartment and eliminating therefrom all moisture and moisture producing elements.

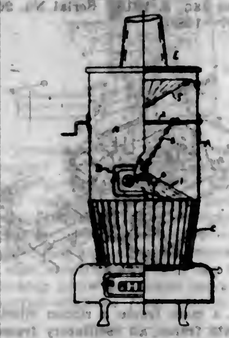
2. The herein described process of sterilizing tobacco products contained in packages, consisting in subjecting the packages, while in a hermetically sealed compartment, to the action of heat and the fumes from a heated chemical.

1,397,505. PAVING-BRICK. FRANK B. DUNN, Conneaut, Ohio. Filed May 2, 1919. Serial No. 294,226. 1 Claim. (Cl. 94—14.)



As an article of manufacture, an unpressed paving brick cut from a continuous column of clay having two transverse grooves in one of the die-formed surfaces thereof, and perimetrical studs projecting from the surface of said die-formed surface adjacent to the same relative side of each of said transverse grooves, substantially as set forth.

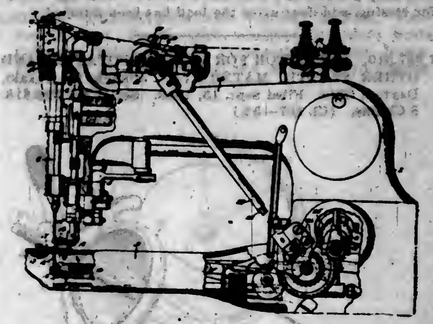
1,397,506. STOVE. MATTHEW H. FARMER, Logan, Utah. Filed July 15, 1921. Serial No. 484,922. 3 Claims. (Cl. 126—83.)



1. In a stove the combination with the side walls thereof, of an inverted cone secured near the top of said stove; a frusto-conically shaped baffle vertically movable in said stove, and having outwardly and upwardly flared portion in the base edge thereof; and means to move said baffle vertically in said stove.

1,397,507. THREAD-CONTROLLING MECHANISM FOR MULTIPLE-NEEDLE SEWING-MACHINES. GEORGE S. GASTMANN, Roselle Park, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Sept. 25, 1919. Serial No. 326,290. 17 Claims. (Cl. 112—241.)

1. A sewing machine having a plurality of needles set in a plane crossing the line of feed, a looper cooperating therewith to form stitches, means for tightening the needle-loops as they are shed from the looper, and yielding means disposed out of engagement with the needle-threads at the beginning of the down-stroke of the needles and



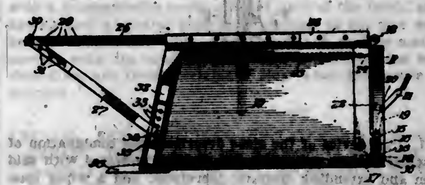
adapted to come into engagement with the needle-threads as the needles descend and uniformly strain the needle-threads as the descending needle-points pass their respective previously formed loops on the looper.

1,397,508. CLAMP. ALEXIS F. GILLET, Omaha, Nebr., assignor to Jubilee Manufacturing Company, Omaha, Nebr. Filed June 6, 1921. Serial No. 475,187. 3 Claims. (Cl. 24—19.)



2. A hose clamp comprising a flexible metallic band adapted to encircle a hose and arranged with its ends in overlapping relation, a bracket carried upon the inner end of the band and being spaced therefrom to receive the other end of the band beneath the bracket, and a worm arranged in the bracket and exposed toward the overlapping ends of the band for binding engagement against the outer end of the band whereby said ends of the band may be clamped together and slid one upon the other for expanding and contracting the clamp.

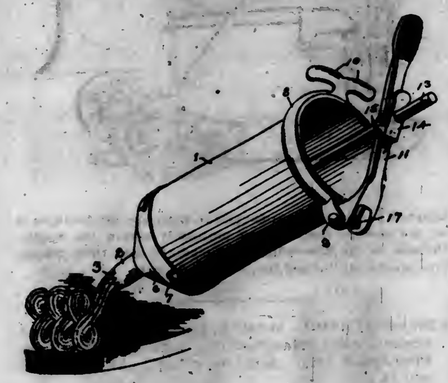
1,397,509. RECLAIMING AND CONVEYING BUCKET. JOHN F. GODFREY, Elkhart, Ind. Filed Aug. 23, 1920. Serial No. 405,451. 4 Claims. (Cl. 37—54.)



1. A bucket of the class described including a body portion, a latch hook secured to said body portion, a dump door pivotally connected to said body portion, a releasable latch carried by said dump door normally engaging said

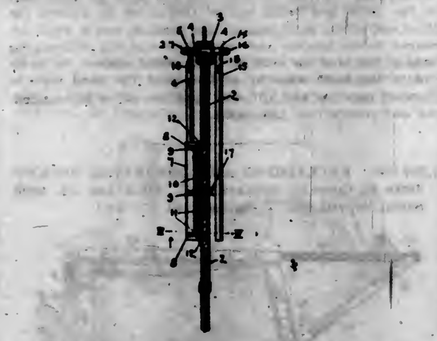
hook for holding the door in closed position and having an operating lever adapted to be operated for permitting the release of said door for dumping purposes, by engagement with the ground and a balance spring operative between said body portion and door and mounted within the bucket for closing said door after the load has been dumped.

1,397,510. DEPOSITOR FOR MASHED POTATOES AND OTHER PLASTIC MATERIALS. JOSEPH G. GRASSI, Dayton, Ohio. Filed Sept. 15, 1919. Serial No. 323,818. 8 Claims. (Cl. 107—52.)



1. A device capable of being moved to and fro in the hands of the operator for forming plastic material into strands, comprising a reservoir having a discharge orifice at one end thereof, substantially axially aligned with the reservoir a plunger in said reservoir, and means for intermittently advancing the plunger through a step by step movement while the device is being shifted to and fro, substantially as specified.

1,397,511. WINDSHIELD-CLEANER. CHARLES F. GREEN, Toledo, Ohio, assignor to The Willys-Overland Co., Toledo, Ohio, a Corporation of Ohio. Filed June 5, 1916. Serial No. 101,661. 3 Claims. (Cl. 15—59.)



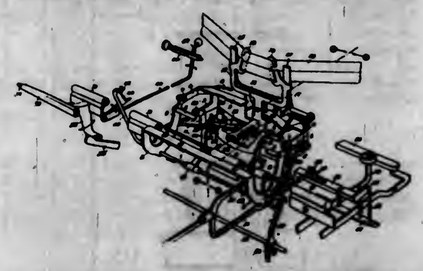
1. In a device of the class described, the combination of a wiper arm, a removable pin rigidly connected with said arm and extending laterally therefrom, and a wiper comprising a clip and yieldable member directly engaged and held by the clip, said clip being loosely mounted upon the arm and having a circumferential slot extending transversely of the arm for receiving said pin to permit a limited rotative movement of the clip upon the arm.

1,397,512. CULINARY IMPLEMENT. HERMAN M. GAMMONS, Chicago, Ill. Filed Sept. 27, 1921. Serial No. 503,490. 2 Claims. (Cl. 146—15.)



1. A culinary implement comprising a handle, and a dasher comprising a shank attached to the handle and consisting of laterally spaced side portions having at their extremities a transverse connecting portion consisting of spaced and parallel cross bars and return bends connecting the ends thereof, said cross bars adjacent to the return bends having upward bends forming upstanding end portions of the cross bars.

1,397,513. RIBBON-MOVEMENT FOR TYPEWRITERS. JOHN A. HAGMEYROM, Cranford, N. J., assignor to Victor Typewriter Company, Scranton, Pa., a Corporation of New York. Filed Jan. 2, 1919. Serial No. 269,298. 11 Claims. (Cl. 197—158.)



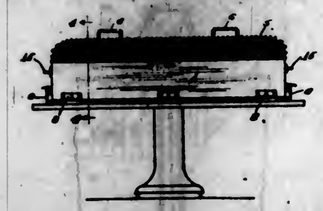
1. In a typewriter, a main frame, a ribbon vibrator reciprocable on said main frame, an oscillatory frame journaled on an axis fixed with respect to said main frame, a lever movable about an axis on said oscillatory frame and slidably engaging said ribbon vibrator, and means for adjusting said lever to vary its point of contact with said ribbon vibrator with respect to the distance of said point of contact from the axis of said oscillatory frame.

1,397,514. PROCESS FOR DEPOSITING A METALLIC COATING ON VARIOUS METAL ARTICLES OR OBJECTS. FREDERICK W. HAINES, township of Sandwich East, Ontario, Canada, and FRANK L. SOMMERS, Detroit, Mich., assignors, by direct and mesne assignments, to The Metal Protection Laboratory, Detroit, Mich., a Corporation of Michigan. Filed Sept. 28, 1916. Serial No. 256,123. 9 Claims. (Cl. 204—8.)

1. The process of coating metal articles by replacement in a solution of the desired coating metal, which contains

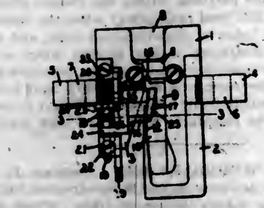
the step of restraining the deposition by placing in the solution an oxid, which in this process is not reduced to its metallic form.

1,397,515. CORPSE-CARRYING DEVICE. GEORGE F. HARRINGTON and ARTHUR J. PODAWILTZ, Eau Claire, Wis. Filed Aug. 2, 1920. Serial No. 400,772. 3 Claims. (Cl. 27—28.)



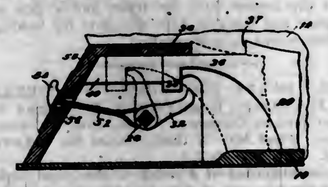
2. A corpse carrying device comprising an elongated corpse containing member having a removable cover, hinged members closing the bottom of said device, and latch members sustaining the said hinge members and so positioned that they may be released while said corpse containing member is resting on a table, whereby said device may be lifted vertically to remove its contents through the bottom.

1,397,516. PRESSER-FOOT FOR BLINDSTITCH SEWING-MACHINES. THOMAS J. HAYES, Roslindale, Mass., assignor to Arbetter Felling Machine Company, Boston, Mass., a Corporation of Maine. Filed Aug. 20, 1917. Serial No. 187,059. 11 Claims. (Cl. 112—151.)



1. A presser foot for sewing machines for felling a superimposed layer upon a base layer of material comprising toe portions adapted to engage respectively the base and superimposed layers, guiding means for the superimposed layer including a plurality of vertically movable guiding instrumentalities pivotally mounted upon the presser foot and operating successively to engage and direct said superimposed layer as the same approaches the stitching point and means operable to remove one of said instrumentalities from guiding position.

1,397,517. PHONOGRAPH-RECORD CABINET. JOHN HEITMAN, Seattle, Wash. Filed Nov. 8, 1920. Serial No. 422,628. 21 Claims. (Cl. 211—16.)



9. The combination with a casing, of carriages therein, a swinging and slidable ejector for said carriages, means holding the ejector against sliding movement when advanced, means normally spacing said ejector from the carriages, and an adjusting device for positioning said ejector adjacent the carriage to be advanced.

1,397,518. PREDETERMINED-WEIGHT SCALE. HALVOR O. HEM, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Apr. 5, 1920. Serial No. 371,278. 10 Claims. (Cl. 116—129.)



1. In a weighing scale, in combination, a casing, a series of pointers movably mounted therein, and a single means operable from without the casing for engaging and moving each of the pointers of said series, substantially as described.

1,397,519. NOZZLE FOR OXYACETYLENE AND SIMILAR TORCHES. BENJAMIN HEYMAN, Newark, N. J., assignor to Oxweld Acetylene Company, Newark, N. J., a Corporation of West Virginia. Filed Nov. 19, 1919. Serial No. 339,158. 5 Claims. (Cl. 158—27.4.)

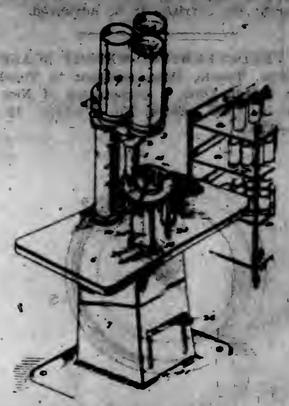


1. A nozzle for an oxyacetylene or similar torch, having at its rear a machined surface to make a gas-tight fit with a corresponding surface in the head of the torch, and having also a central stud or projection at its rear and having at the outer edge of said machined surface means serving with the stud or projection to prevent the machined surface from receiving a blow when the nozzle is dropped.

1,397,520. ART OF FILLING CONTAINERS WITH ICE-CREAM. HAROLD C. HOWE, Rutland, Vt., assignor to Sealright Co. Inc., Fulton, N. Y., a Corporation of New York. Filed Jan. 26, 1921. Serial No. 439,995. 35 Claims. (Cl. 226—24.)

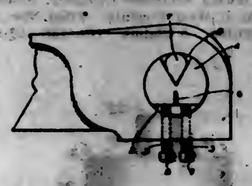
11. An ice cream container filling machine having a container filling nozzle with a free end discharge, said nozzle formed to longitudinally and slidably receive a container

with the bottom of the container opposite said discharge end to fill the container as the same slides from the needle,



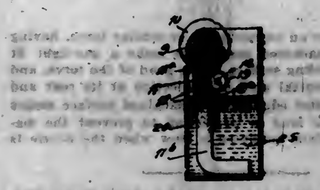
and means for maintaining a supply of flowable ice cream flowing through said nozzle.

1,397,521. WEIGHING-SCALE. SAMUEL N. HUBT, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Dec. 27, 1920. Serial No. 432,196. 9 Claims. (Cl. 74—104.)



1. In a device of the class described, in combination, a member having a bore therein, a pivot, a pivot retainer mounted in said bore, said pivot retainer having a recess adapted to receive the pivot, and means for deforming said pivot retainer to clamp said pivot in said recess.

1,397,522. OILING DEVICE FOR FIBER SILK AND THE LIKE. JOSEPH JACOBS, Brooklyn, N. Y. Filed Nov. 21, 1919. Serial No. 339,571. 5 Claims. (Cl. 91—48.)



2. An oiling device for fiber silk and like threads embodying a container provided with an oil containing portion, a roller having an unyielding, hard surface mounted to rotate freely above said containing portion and feeding means for supplying a thin film of oil from the containing portion to said roller.

1,397,523. FUEL-RESERVOIR-SUPPLY SYSTEM FOR SELF-PROPELLED VEHICLES. Benjamin Jonsson, Jr., Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed May 26, 1919. Serial No. 299,863. 32 Claims. (Cl. 158—46.5.)



1. A liquid control device comprising a closure arranged to be connected with an aspirator and adapted to be inserted within a liquid holding receptacle, said closure having a liquid inlet passageway sealed by the liquid in the receptacle, means partially within the closure arranged to automatically close said passageway when the liquid in the receptacle falls below a predetermined level, and a holder for said last mentioned means serving when connected therewith to prevent the closing of the passageway when the liquid in the receptacle stands below said lever, said means being automatically released from said holder when the liquid in the receptacle rises above said level.

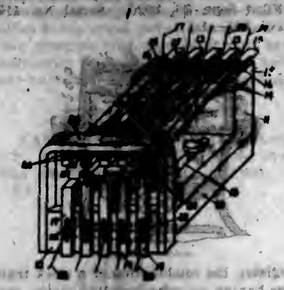
1,397,524. AUTOMOBILE-LOCK. THOMAS J. KEHOE, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Aug. 16, 1917. Serial No. 186,488. 10 Claims. (Cl. 70—181.)



10. The combination with a gear shifting segment having a slotted guide for a control lever, of a casing fixed upon the segment and having parallel guide members and a plate adapted to be guided thereby across the top of the segment in a path extending at a right angle to the slot and into engagement with the lever, and a lock carried by the plate and movable with the plate for locking said plate when moved to said position.

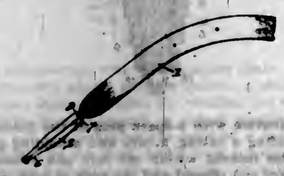
1,397,525. MEANS FOR MEASURING VIBRATION. JOHN E. KENNEDY, Glens Falls, N. Y., assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed May 3, 1920. Serial No. 378,607. 10 Claims. (Cl. 234—36.5.)

4. The combination of a series of electrically operated recording devices controlled by a series of electric circuits, and a corresponding series of vibration or shock receiving members actuated by vibrations or shocks of different intensity, to close the respective circuits, in order to make a record indicative of the number and relative intensity of the vibrations or shocks received.



9. The combination of a plurality of electric circuits, a series of recording devices operatively connected with said circuits, and vibration actuated mechanism for controlling said circuits to effect progressive operation of said recording devices through vibrations of different intensity imparted to said mechanism.

1,397,526. TIP FOR LACINGS. EDWARD FRANCIS KING, Providence, R. I., assignor, by direct and mesne assignments, to What Cheer Braid Company, Providence, R. I., a Corporation of Rhode Island. Filed Aug. 22, 1919. Serial No. 319,153. 3 Claims. (Cl. 24—143.)



1. The combination with a lacing, of a metallic tip, formed of a blank of substantially conoidal outline or contour and folded about the lacing and overlapped upon itself and having its leading end or point tapering and its overlapped butt constricted about the lacing and gripping it superficially, the constricting of the butt serving to interlock the folds of the tip with one another and with the lacing.

1,397,527. SCOW. CHARLES KULMAN, Brooklyn, N. Y., assignor of one-half to Albert E. Thomas, West New York, N. J. Filed May 16, 1921. Serial No. 470,140. 7 Claims. (Cl. 114—37.)

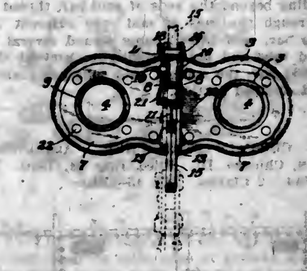


1. A dumping scow having an opening through the rear wall thereof, out through which material in the scow may flow and a door for said opening hinged to swing downwardly and outwardly to open the opening.

1,397,528. ART OF MANUFACTURING PRINTERS' ROLLERS. SOLOMON KUSNER, Chicago, Ill., Assignor, by mesne assignments, to Rapid Roller Co., Chicago, Ill., a Corporation of Illinois. Filed Apr. 11, 1919. Serial No. 289,327. 1 Claim. (Cl. 106—5.5.)

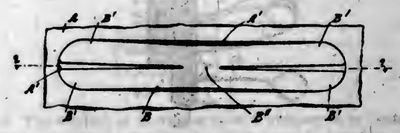
The herein described method of producing material for cores of printers' rollers which consists in mixing substantially 800 parts by weight of a vegetable oil, 15 parts by weight of calcium oxid, 12 parts by weight of a mineral oil, and 100 parts by weight of sulfur chlorid, agitating the mixture and allowing the same to cool, the agitation permitting the escape from the mixture of the occluded gases, and resulting in a viscous liquid; then adding to 100 parts by weight of the result of the first step ten parts by weight of sulfur chlorid gradually adding the sulfur chlorid and agitating the mixture as the sulfur chlorid is added, then while the mixture is still heated pouring the mixture into a suitable mold for the production of the product desired such as the core of a printer's roller.

1,397,529. NON-SKID AND TRACTION CHAIN. HERRON BERNARD LAYMAN, New York, N. Y., assignor to Never-skid Manufacturing Co., Incorporated, a Corporation of New York. Filed Feb. 6, 1919. Serial No. 275,811. 4 Claims. (Cl. 152—2.)



3. In a non-skid traction device the combination of a pad comprising a stamped metal plate the edges of which are cupped outward relatively to the wheel in which they are to be placed, two stamped metal members riveted to the inner face of the pad and having in-turned flanges which are aligned parallel to one another across the inner face of the pad, and a flexible chain pivoted to said inwardly projecting flanges.

1,397,530. COUPLING-KEY. HILDING LÜBECK, Hesserud, Sweden. Filed Feb. 4, 1919. Serial No. 274,991. 7 Claims. (Cl. 64—96.)



7. A structure comprising two parts rotating about the same axis, one of said parts having a socket, a key connected with the other part and having a portion projecting into said socket, said key being elastic circumferentially of said parts and occupying, during the normal transmission of power, a position intermediate between its fully relaxed and fully stressed positions, whereby during normal transmission of power said key may either increase or decrease its state of elastic tension according as the driving pressure or resistance increases or decreases.

1,397,581. HATPIN-GUARD. JOSEPH LUCIUS, Champion, Mich. Filed May 28, 1921. Serial No. 471,846. 2 Claims. (Cl. 132—72.)



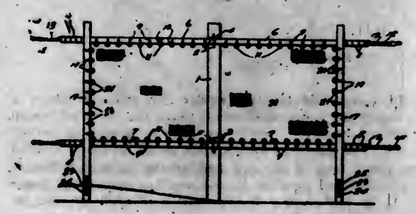
1. The combination with a hat pin, of a member, slidable upon the shank of the hat pin to a point adjacent the head thereof, a guard to cover the projecting end of the hat pin, and means coöperatively uniting the member and guard for holding the latter on the pin.

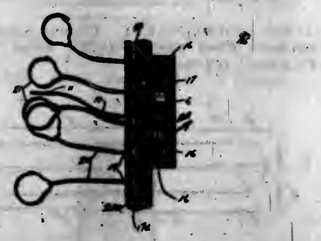
1,397,532. CURLER. KATHERINE MCCLAIRE, Chicago, Ill. Filed June 8, 1921. Serial No. 476,061. 2 Claims. (Cl. 132—43.)



2. A curler comprising an integral bar of soft copper of substantial size and circular in shape, a tube of flexible material within which said bar is placed, the ends of said tube extending beyond the ends of said bar, thread being stitched through the ends of said tube adjacent to the ends of the bar, said thread being wound several times around said tube and drawn tightly to prevent the removal of said bar, the ends of said tube being extended beyond said confined portion.

1,397,583. CURTAIN-STRETCHER. ALEXANDER P. MCMAHON, Chicago, Ill. Filed June 14, 1920. Serial No. 388,844. 2 Claims. (Cl. 45—24.)





1. In a curtain stretcher, a standard, end rails formed with longitudinal recesses, folding side rails formed with longitudinal recesses and with a plurality of perforations, sliding strips disposed in the recesses of said side and end rails, cover strips for said sliding strips, the cover strips for the sliding strips carried by the end rails being perforated, wires secured to both sets of sliding strips, one set of wires extending through the perforations in the perforated strips and the other set extending through the perforations in the side rails, and split rings carried by said wires.

1,397,594. REGISTER FOR WATER-METERS, &c. WILLIAM L. MASSEN, New York, N. Y., assignor to Neptune Meter Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 30, 1920. Serial No. 418,777. 3 Claims. (Cl. 235—1.)



1. In a register, the combination of a clock train, a supporting frame having spaced supporting plates, one of such plates having counter-sunk recesses and elongated slots, bushings in the seats of the supporting plate, and a locking plate to cover and retain the bushings in their seats and having prongs to enter the slots of the supporting plate and engage the supporting plate.

1,397,535. SPARK-PLUG. CHARLES G. MINOR, Duluth, Minn. Filed Mar. 25, 1920. Serial No. 368,502. 1 Claim. (Cl. 123—169.)



The combination with a spark plug of the character described including a casing, a core and a holding gland, of two electrodes incased within the core and extending beyond the lower end thereof and the ends of both electrodes being bent inwardly toward each other and one above the other, whereby the spark may occur either intermediate of the end of the shorter terminals and the vertical portion of the opposite electrode or between the two horizontal portions of the terminals, substantially as described.

1,397,536. KETTLE. HARTWIG A. MOORE, Chicago, Ill., assignor of one-half to Alfred C. Moore, Chicago, Ill. Filed June 25, 1921. Serial No. 480,397. 2 Claims. (Cl. 53—8.)



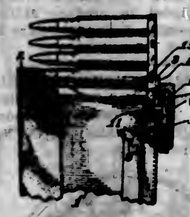
1. A unitary cast metal kettle comprising an inner cup-shaped receptacle, an outer wall spaced from said receptacle and extending beyond the upper and lower ends of said receptacle, a horizontally disposed annular supporting ledge connecting the upper edge of said receptacle with said outer wall, said ledge being arranged below and in spaced relation to the upper end of said outer wall for supporting a bag clamping ring, said outer wall having vents arranged adjacently below said ledge, and a spout formed on said outer wall above said annular supporting ledge.

1,397,537. CAN-OPENER. GEORGE D. MUNSING, New York, N. Y. Filed Feb. 1, 1919, Serial No. 274,511. Renewed May 18, 1921. Serial No. 470,607. 3 Claims. (Cl. 30—3.)



1. The combination with a supporting plate, of a vertical rod secured in spaced relation thereto, a shelf mounted to slide along said rod, means for securing the shelf to the rod at different adjustments, a cutter mounted to slide along the rod to operate on the head of a can when the latter is placed on the shelf, and a lever pivotally connected to the plate and cutter for actuating the latter.

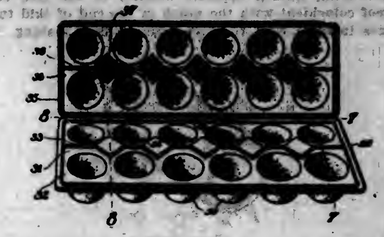
1,397,538. MAGAZINE-LOADER. CHARLES A. NELSON, Utica, N. Y., assignor to Savage Arms Corporation, Utica, N. Y., a Corporation of Delaware. Filed Dec. 3, 1918. Serial No. 265,140. 2 Claims. (Cl. 42—67.)



2. In a magazine loading machine for loading separate magazines, a cartridge chute formed at its entrance end to receive a cartridge clip and provided with an automatically operating ejector for the empty clip.

1,397,539. EGG-CARTON. RISDON MOORE ODELL, Decatur, Ill. Filed Jan. 14, 1920. Serial No. 351,376. 3 Claims. (Cl. 217—26.)

1. An egg holding tray having folded portions provided with means forming egg receiving pockets or cells arranged in rows and also provided with relatively engaging ribs and grooves around the pockets, adjacent to its edge and



between the rows of pockets or cells and with embossed projections and recesses at spaced points along the ribs and grooves between the said rows.

1,397,540. RECEPTACLE AND CARRIER FOR EGGS. RISDON MOORE ODELL, Decatur, Ill. Filed Jan. 14, 1920. Serial No. 351,377. 8 Claims. (Cl. 217—26.)



1. A filler in the nature of an egg tray having parallel rows of egg receiving cells, cups or pockets spaced apart in the rows and having folds extending through the rows of cells, cups or pockets, said folds extending for approximately the full depth of the cells, cups or pockets and having means in the nature of crimps in the spaces between said cells, cups or pockets to prevent communication therebetween for the major portions of their depth as described.

1,397,541. METHOD FOR USE IN CONNECTION WITH THE TESTING OF MATERIALS. JAMES W. OWENS, Cradock, Va., assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 3, 1920. Serial No. 356,064. 11 Claims. (Cl. 29—148.)



1. The method of operating upon a member to be tested, which comprises removing a small section therefrom to obtain a test specimen, and refilling the void within said member which was formed by the removal of said section.

1,397,542. CORE FOR ROLLS OF PAPER AND THE LIKE. HOWARD PARKER, Berlin, N. H., assignor to Brown Company, Portland, Me., a Corporation of Maine. Filed Mar. 25, 1918. Serial No. 224,412. 1 Claim. (Cl. 242—68.)

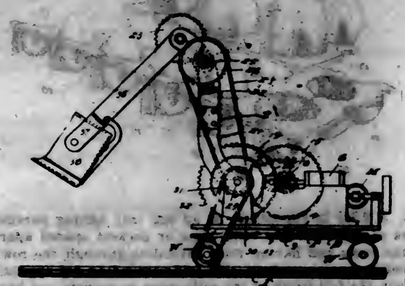
A core of the class described comprising in combination with a tube having one end thereof provided with a notch,

a normally expanded, split, contractile, protecting bushing of spring sheet metal fitted in the end of said tube, said bushing having opposite notches in the free ends thereof coincident with the notch in the end of said tube, flanges integral with the free ends of said bushing, the



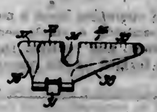
ends of said flanges being serrated and folded outwardly and backwardly upon the adjacent edges of said notch in the end of said tube, and an outwardly projecting prong from the wall of said bushing adapted for engagement with the inner wall of said core.

1,397,543. DIGGING-MACHINE. Albert Peters, Bahpeming, Mich. Filed Mar. 24, 1920. Serial No. 368,450. 5 Claims. (Cl. 214—138.)



1. A machine of the class described comprising a platform, a table rotatably supported thereby, a member mounted on the platform and rotating about a substantially horizontally disposed axis, means for rotating the member, an arm having an end portion fixed to said member movable in a vertical direction therewith, a second rotatable member supported by the opposite end portion of the arm, a second arm having one end portion fixed to said second rotatable member, means for rotating said second rotatable member, and a digging element carried by the outer end portion of the second named arm.

1,397,544. TYPEWRITING-MACHINE. Edwin A. Peterson, Madison, Wis., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 2, 1920. Serial No. 362,644. 3 Claims. (Cl. 197—190.)



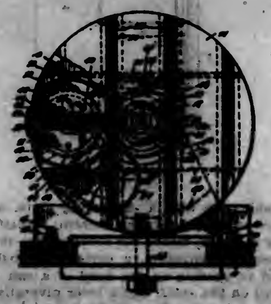
1. A wing-scale for a typewriting machine having a long aligning edge to lie along the platen at the printing line and at one side of the printing point, and an erasure opening in said wing-scale at said aligning edge to enable the contour of previously-typed characters in the printing line when said characters are brought opposite the erasure opening by longitudinal shifting of the platen.

1,397,545. [illegible]. Wm. H. Fontaine, Chicago, Ill., assignor to Westinghouse Pump and Machinery Company, a Corporation of Virginia. Filed July 31, 1920. Serial No. 401,540. 6 Claims. (Cl. 257—230.)



1. The combination with a surface condenser and its circulating water inlet chamber, of a rotatable strainer extending over and inclosed within the chamber, and means for rotating the strainer.

1,397,546. OVAL CHUCK. August Rebelski, Brooklyn, N. Y., and Mathew Torre, Hoboken, N. J. Filed May 25, 1920. Serial No. 384,102. 8 Claims. (Cl. 82—18.)



1. In a device of the character described, a primary rotary member, a secondary member shiftably mounted relatively to said primary member, and rotatable therewith, rotatable means carried by said primary member, and adapted to have relative rotary movement during the rotation of said primary member, lever means connecting said secondary member to said rotatably carried means, the connection of said lever means with said rotatably carried means adapted to produce shifting movement of said secondary member during its rotary movement with said primary member.

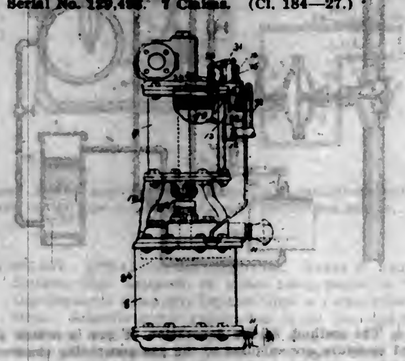
1,397,547. PREDETERMINED-WEIGHT SCALE. Orwell C. Reeves, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Mar. 22, 1920. Serial No. 367,659. 7 Claims. (Cl. 116—128.)



3. In a device of the class described, in combination weighing mechanism, an indicator shaft connected thereto,

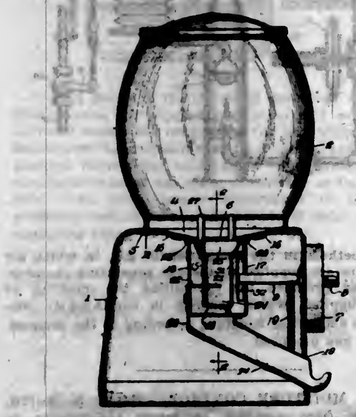
an indicator hand fixed to said shaft and capable of a complete rotation and a plurality of manually-operable hands rotatably mounted on an axis substantially coincident with that of said indicator shaft.

1,397,548. PUMP-LUBRICATOR. Edward G. Ripley, Minneapolis, Minn., assignor of one-half to Henry L. McCullough, Minneapolis, Minn. Filed Nov. 4, 1916. Serial No. 129,493. 7 Claims. (Cl. 184—27.)



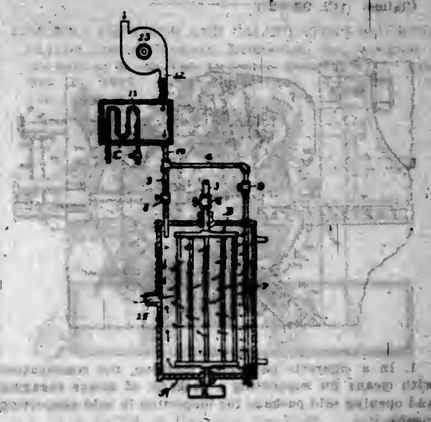
6. The combination with a reciprocating engine comprising a main cylinder and coöperating piston working therein, which has exposed reciprocating parts of much less length than the length of the stroke of said piston, of a lubricator pump cylinder and piston, means extending through the head of said main cylinder and operable by the piston therein, and an intermediate step-by-step transmission mechanism including a pivoted tappet lever operated by and disposed between said means and the piston of said lubricator whereby said lubricator piston will be operated at a speed proportional to the speed of reciprocation of said main piston.

1,397,549. VENDING-MACHINE. Charles S. Scott, Chicago, Ill. Filed Apr. 25, 1921. Serial No. 464,068. 4 Claims. (Cl. 211—8.)



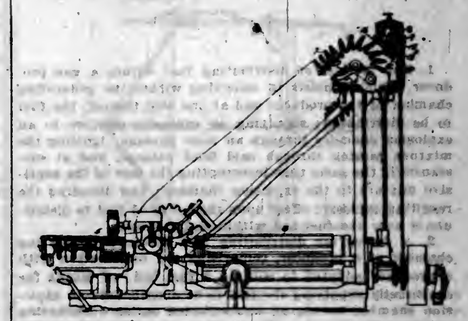
1. A vending machine comprising a container, a delivery outlet, a movable receiver intermediate said container and outlet for delivering articles of merchandise to said outlet, and a member controlling the passage of articles through said outlet, said receiver being shiftable back and forth beyond opposite sides of said member for delivering an article on its forward movement and another article on in its return movement.

1,397,550. PROCESS OF TREATING LIQUIDS. Thomas Sinclair, Taylors Falls, Minn. Filed Dec. 6, 1917. Serial No. 206,244. 1 Claim. (Cl. 99—15.)



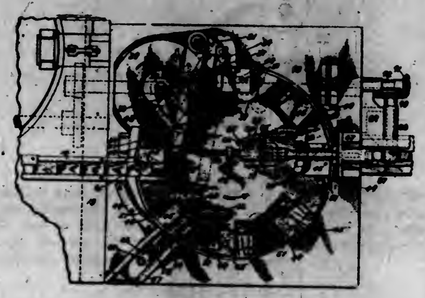
A process of preparing milk or cream containing a germ valuable to the digestive system consisting of gradually heating the milk or cream to about 145 to 150 degrees Fahrenheit to inure the germ and its spores to an increased temperature and to destroy deleterious organisms, meanwhile introducing sterile air in intimate contact with the milk or cream, next flashing the temperature to about 170 to 185 degrees Fahrenheit to destroy deleterious organisms remaining, then cooling the milk or cream to about 50 to 65 degrees Fahrenheit and incubating at that temperature for a period ranging from 48 to 96 hours to propagate the seed germ to develop agreeable aromas from the milk or cream, and finally reducing said temperature to and maintaining said temperature at about 35 to 45 degrees Fahrenheit for an extended period, the said introduction of air being continued during said steps to scavenge away substantially all foul gases liberated by the milk or cream.

1,397,551. TOBACCO-STEMMING MACHINE. Joseph W. Slaughter, Brooklyn, N. Y., assignor to Standard Tobacco Stemmer Company, a Corporation of Virginia. Filed Sept. 30, 1920. Serial No. 413,686. 3 Claims. (Cl. 131—57.)



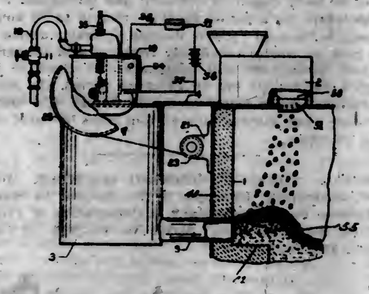
3. In a tobacco stemming machine, the combination with a series of traveling stem butt grippers, of a source of solvent supply, and a felt wheel intermittently in contact with and operated by said grippers and receiving solvent from said source and applying it to said grippers.

1,397,552. CIGARETTE-PACKAGING MACHINE. Seamour D. Smith, Brooklyn, N. Y., assignor to American Machine & Foundry Company, a Corporation of New Jersey. Filed Sept. 25, 1920. Serial No. 412,702. 22 Claims. (Cl. 93—2.)



1. In a cigarette packaging machine, the combination with means for supporting a package, of means engaging and opening said package for inspection in said supporting means.

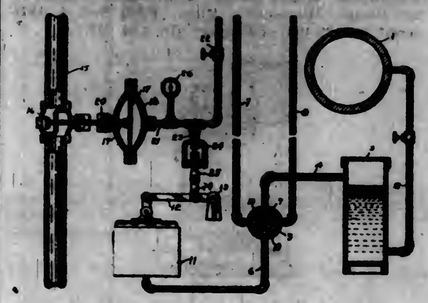
1,397,553. METHOD OF AND APPARATUS FOR DISTRIBUTING MATERIAL. Harry F. Smith, Lexington, Ohio, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio, a Corporation of Ohio. Filed Apr. 4, 1917. Serial No. 159,843. 4 Claims. (Cl. 110—101.)



1. The method of distributing fuel within a gas producer, which consists in collecting within the generating chamber of the producer and at one side thereof, the fuel to be distributed; supplying an explosive mixture to an explosion chamber through an inlet passage; igniting the mixture passing through said inlet passage, and at substantially the same time interrupting the flow of the explosive mixture to the explosion chamber; and directing the resulting explosive effect upon the collected fuel to distribute it over the fuel bed within the producer.

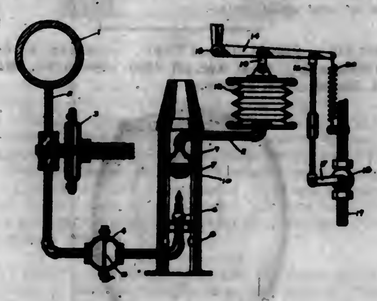
2. A device for distributing fuel within a generating chamber of a producer, comprising the combination with a producer adapted to contain a fuel bed; of means for continually supplying the fuel to be distributed; an explosion chamber having an unobstructed outlet, terminating adjacent the fuel to be distributed; means for introducing an explosive mixture thereinto; means for interrupting the flow of explosive mixture into the chamber; and means for igniting the mixture within the chamber, the interrupting means and the igniting means being adapted to function at substantially the same time.

1,397,554. STEAM REGULATION. Harry F. Smith, Lexington, Ohio, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio, a Corporation of Ohio. Filed Aug. 28, 1917. Serial No. 188,234. 25 Claims. (Cl. 48—87.)



1. The method, in the generation of gas in which air and moisture are supplied to the gas generating chamber, which consists in continuously controlling the amount of moisture supplied according to the specific gravity of the gas produced.

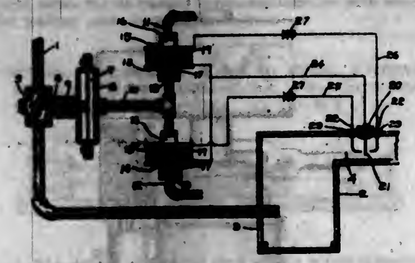
1,397,555. MOISTURE REGULATION. Harry F. Smith, Lexington, Ohio, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio, a Corporation of Ohio. Filed Nov. 7, 1917. Serial No. 200,850. 17 Claims. (Cl. 48—87.)



1. The method, in the generation of gas, in which air and moisture are supplied to the gas generating chamber, means being provided for controlling the quantity of moisture supplied, which consists in continuously controlling the amount of moisture according to the composition of the gas produced.

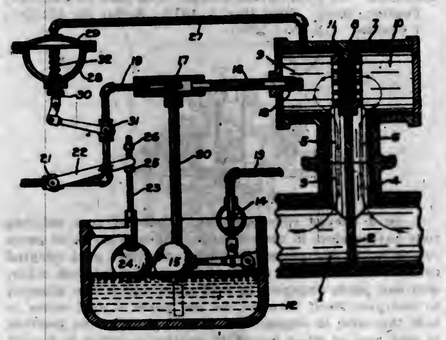
1,397,556. MOISTURE CONTROL. Harry F. Smith, Lexington, Ohio, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio, a Corporation of Ohio. Filed Feb. 28, 1918. Serial No. 218,918. 8 Claims. (Cl. 48—180.)

1. In a device for controlling the amount of moisture in a gas, a saturator having a gas inlet at one end and an outlet at the other end thereof; a steam supply pipe leading into the saturator adjacent the inlet; a valve for controlling flow through said steam supply pipe; electrically operated controlling means for said valve;



and means responsive to temperature conditions within the outlet pipe for actuating said controlling means.

1,397,557. SPRAYING MECHANISM. Harry F. Smith, Dayton, Ohio, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio, a Corporation of Ohio. Substitute for application Serial No. 195,849, filed Oct. 8, 1917. This application filed Oct. 27, 1919. Serial No. 333,504. 24 Claims. (Cl. 299—25.)



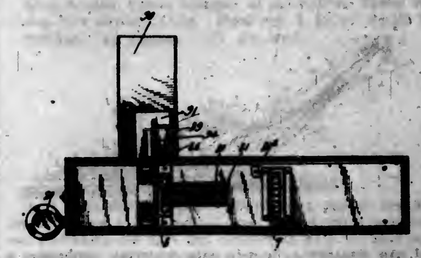
1. In a device of the character described, a distributing pipe; means for supplying fluid to said pipe; pressure operated means for controlling the said supplying means, constructed to maintain said supplying means in operative position during the continuance of predetermined pressure conditions at the place of delivery of the distributed fluid; and other means constructed to interrupt, at predetermined intervals, the supply of fluid to said fluid supplying pipe.

1,397,558. OVERHEAD CRANE. Edwin H. Steedman, St. Louis, Mo., assignor to Curtis & Co. Mfg. Co., Wellston, Mo., a Corporation of Missouri. Filed June 11, 1921. Serial No. 476,962. 13 Claims. (Cl. 105—163.)



1. An overhead crane composed of two end frames each of which consists of a number of flanged members connected together, and a transversely disposed connecting means for said end frames arranged wholly within the space between same and having its opposite ends directly connected to said end frames.

1,397,559. PRINTING AND CALCULATING MACHINE. Claude Jarvis Stimson, Brunswick, Ga., assignor of one-half to H. R. Van Deventer, Sumter, S. C. Filed Nov. 27, 1917. Serial No. 204,234. 7 Claims. (Cl. 235—58.)

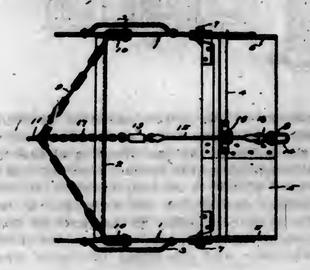


1. In a device of the class described, a plurality of type elements, a platen, means for shifting said elements, means for moving said platen, and means for preventing actuation of the typing elements of higher order after the operation of a typing element of lower order.

4. In a device of the class described, a plurality of type bars, means for shifting the same, a stamping bar below said type bars, a slide adapted to receive a check or the like and to be moved into and from position between the type bars and stamping bar, a ribbon, and flexible ribbon-engaging means carried by the slide for moving the ribbon when the slide is moved.

7. In a device of the class described, a plurality of type bars, a registering disk operatively connected to each of said type bars, a projection on each disk, means in engagement with said disks and projections for transmitting motion between adjacent disks, and a displaceable detent normally in the path of one of said projections.

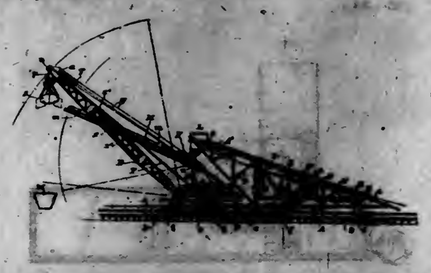
1,397,560. MINING SELF-LOADING AND UNLOADING SCRAPER. Charles H. Strange, Minersville, Pa. Filed June 29, 1920. Serial No. 392,862. 5 Claims. (Cl. 37—19.)



1. A scraper for transferring coal detached from a vein from the working face of a chamber to a car in the entry of a mine, said scraper having an open top, open bottom and open front end and comprising substantially vertical side plates, transversely extending arches connecting the side plates, a transversely extending back plate hinged at its lower edge to the lower edges of the side plates, means for the connection of the head rope to the side plates,

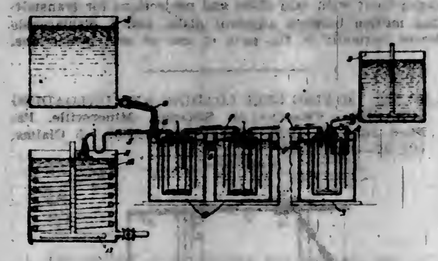
means for the connection of a tail rope to the hook plate, and a flexible connection between said head and tail rope connection means.

1,397,561. APPARATUS FOR CONVEYING, DELIVERING, AND GATHERING MATERIAL. Francis Lee Stuart, New York, N. Y. Filed June 18, 1920. Serial No. 389,979. 4 Claims. (Cl. 214—86.)



1. An apparatus for delivering material, comprising a truck, a turntable thereon, a vertical frame on the turntable, a stacker boom equipped with a conveyer and pivotally connected at its inner end with the frame on the turntable to move about the horizontal axis, a main conveyer belt delivering to the stacker boom, and a boom connected with the outer portion of the stacker boom at a considerable distance from its pivotal connection with the turntable and which is pivotally connected with the turntable below the inner end of the stacker boom.

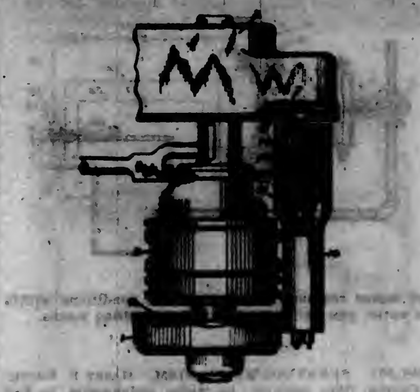
1,397,562. OXIDATION AND REDUCTION PROCESS AND APPARATUS THEREFOR. Charles J. Tratcher, New York, N. Y. Filed Jan. 24, 1920. Serial No. 353,742. 11 Claims. (Cl. 204—3.)



1. The process of electrolytic oxidation or reduction, which consists in inducing a flow of spent electrolyte, exposing the electrolyte in the first direction of flow to electrolytic action opposed to the primary reaction, and in the reverse direction of flow to electrolytic action inducing the primary reaction, introducing the substance to be converted by the primary reaction at substantially the most inert condition of the electrolyte, collecting the electrolyte and said substance, and separating the latter from the former.

1,397,563. COMBINED BRAKE VALVE AND SWITCH. Thomas H. Thomas, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Jan. 20, 1921. Serial No. 438,799. 3 Claims. (Cl. 303—15.)

1. A combined brake valve and brake switch device comprising a main brake valve and brake switch portion having a contact connected to a wire leading to the brake switch and a blocked portion for receiving the main portion



and having a contact adapted to engage the contact in the main portion upon assembling the parts.

1,397,564. AUTOMOBILE-LOCK. Charles G. Trosien, Pontiac, Mich. Filed Mar. 8, 1919. Serial No. 281,381. 7 Claims. (Cl. 70—126.)



1. In a change speed gearing, a pair of gear shifting rods having slots in their adjacent sides, a series of parts consisting of end parts and an intermediate part adapted to limit the movement of the end parts toward each other, said end parts engaging in said slots, and a cam adapted to interpose itself between the end parts of said series to hold the same in engagement in said slots in one position of said cam or when moved to another position to permit the movement of said end parts.

1,397,565. DEMOUNTABLE RIM AND MEANS FOR FASTENING SAME. James H. Wagenhorst, Jackson, Mich. Filed Oct. 24, 1919. Serial No. 332,961. 4 Claims. (Cl. 301—30.)



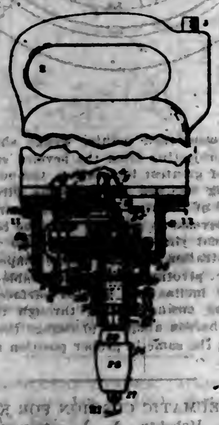
1. The combination with a channeled sheet metal fixed rim, the outer flange of which is depressed at definite points, of bolts passing through said fixed rim in line with the said depressions, a demountable tire carrying rim having an inwardly extending rib upon the inner face of the base thereof, said rib being removed at definite points, said demountable tire carrying rim being adapted to be placed upon said fixed rim so that the points of removal of the rib upon the demountable rim will be in alinement with the depressions in the flange of the fixed rim and clamping members arranged upon the bolts, said clamping members having one portion adapted to engage the demountable tire carrying rim on the side thereof and also having a member adapted to engage the depressions in the fixed rim and the demountable tire carrying rim at the point where the rib thereof is removed together with means for binding said parts together.

1,397,566. METHOD OF FORMING STEEL WHEELS. William H. Walter, Alliance, Ohio. Filed Oct. 5, 1920. Serial No. 414,905. 6 Claims. (Cl. 78—81.)



1. The method of forming steel wheels which comprises placing a heated billet upon a fixed bottom die and between a pair of horizontally separable, vertically fixed side dies and pressing the billet into said bottom die and side dies by a vertically movable top die.

1,397,567. ELECTRICAL TOOL. Carl S. Wenandt, Pittsburgh, Pa. Filed Sept. 14, 1920. Serial No. 410,306. 10 Claims. (Cl. 74—14.)



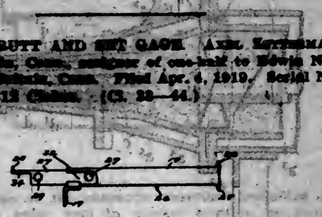
2. A tool for the purpose set forth comprising a tool holder carrying shaft, an electric driving element, an operative drive connection permanently connected with said element and having means detachably connected to the inner end of the shaft for rotating the latter when coupled thereto, and means operated from said connection when said means is uncoupled from the shaft for driving the latter in an oscillatory manner.

1,397,568. CHAIN-FASTENER. Charles J. Williams, Thermopolis, Wyo. Filed Dec. 18, 1919, Serial No. 345,708. Renewed Sept. 23, 1921. Serial No. 502,550. 1 Claim. (Cl. 24—262.)



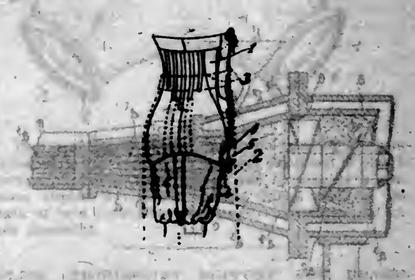
A device for fastening anti-skid chains upon tires, consisting of a member of resilient material bent upon itself, forming two flexible arms terminating each in a hook, a pivot pin passing through said arms and projecting beyond the same, a link adapted to be connected to one end of the chain and having upon the pivotal engagement with the projecting ends of said pin, a tongue pivotally mounted upon said pin between said arms and cooperating with said hooks to engage and hold the other end of the chain, one of said hooks being provided with a tooth disposed in the space between said hooks and serving as a stop to prevent the outward swinging movement of the tongue.

1,397,569. BUTT AND SET GAGE. Axel Matthiesman, New Britain, Conn., assignor of one-half to Edwin Nelson, New Britain, Conn. Filed Apr. 4, 1919. Serial No. 287,846. 13 Claims. (Cl. 33—44.)



1. A butt and set gage comprising a frame, the said frame having a longitudinal bore and having a longitudinal slot along one face and connecting with the said bore, a composite moving portion housed in the said bore and composed of a tube fitting the said bore and a rod telescoping in the said tube, the said tube having a first marker at one end that extends radially through the said slot and having a second marker at the other end, the said rod having a third marker at the end corresponding to the end of the tube having the said first marker, and the parts being constructed and arranged so that all of the said three markers will be active at one time, with the second marker projected beyond one end of the frame, the third marker projected beyond the other end thereof, and the first marker projected radially through the said slot.

1,397,570. CORSET. Alice K. Botz, Cincinnati, Ohio. Filed Feb. 16, 1921. Serial No. 445,444. 1 Claim. (Cl. 2—78.)

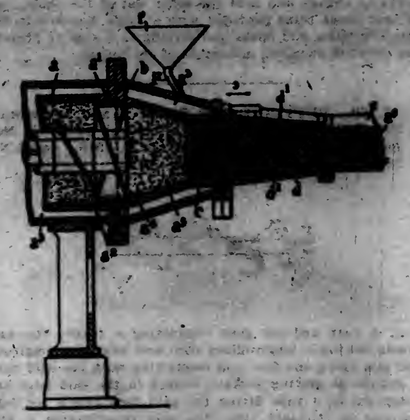


In combination with a corset having a formed-in portion following the line of the abdomen below the waist, a pocket mounted against the face of said formed-in portion, whereby valuables may be inserted in said pocket without discomfort to the wearer, and the normally free space between said portion of the corset and the outer apparel prevents observation of the pocket and relieves the wearer from pressure against the articles in the pocket.

1,397,571. APPARATUS FOR THE PRODUCTION OF ARTIFICIAL FUEL. Richard Bowes, Cheltenham, England, assignor to Laminated Coal, Limited, London, England. Filed Apr. 14, 1920. Serial No. 373,881. 7 Claims. (Cl. 25—33.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

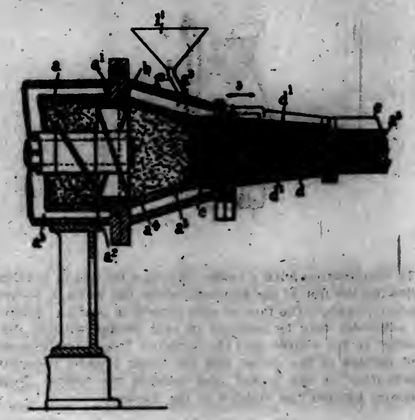
1. Apparatus for producing artificial fuel having in combination a container, means for extruding the material

through an orifice in the container, means for separating the material into layers, a press for pressing the layers into



a block and means for adjusting the distance between the press and the orifice in the container substantially as set forth.

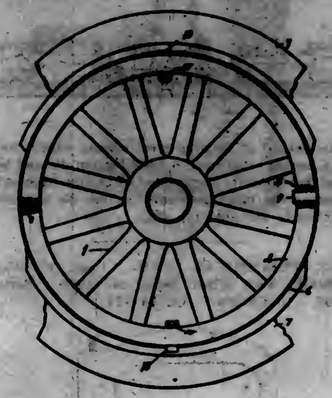
1,397,572. PROCESS FOR THE PRODUCTION OF ARTIFICIAL FUEL. Richard Bowen, Cheltenham, England, assignor to Laminated Coal, Limited, London, England. Filed Apr. 14, 1920. Serial No. 373,822. 6 Claims. (Cl. 25—11.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A process for producing laminated artificial fuel from a combustible material mixed with a bituminous material in a heated chamber which consists in forming the material into layers, treating them to prevent perfect adhesion and then applying pressure to the layers to cause them to adhere imperfectly, substantially as set forth.

1,397,573. QUICK-ACTING DEMOUNTABLE RIM. Hayden Bowen, Plymouth Meeting, Pa. Filed Nov. 3, 1919. Serial No. 335,397. 1 Claim. (Cl. 301—13.)

In combination, a permanent wheel rim having a beveled outer surface inclined in opposite directions at two diametrically opposite points and decreasing inclination to two other diametrically opposite points midway between



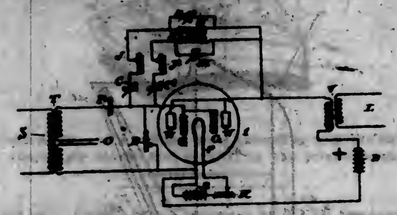
the two first mentioned points, wedge shaped keys on said rim and projecting from the beveled surface thereof at the points of greatest inclination, the outer surface of said keys being inclined in the same direction as the beveled surface of the rim, a demountable rim having its inner surface beveled to coincide with the beveled surface of the permanent rim and provided with transverse recesses for registration with the wedge shaped keys, means for detachably pivoting the demountable rim at the points of least inclination, beveled surfaces and spring actuated locking means passing through the permanent rim, the keys thereon adapted to engage the demountable rim for holding the same in proper position relative to the permanent rim.

1,397,574. PNEUMATIC CUSHION FOR KEYS. James J. Coomber, Hoboken, N. J., assignor to Munson Supply Company, New York, N. Y., a Corporation of New York. Filed Mar. 14, 1921. Serial No. 452,159. 10 Claims. (Cl. 197—108.)



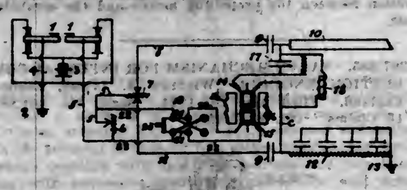
1. As a new article of manufacture, a pneumatic cushion for keys comprising a resilient cushioning member adapted for attachment to a securing member, the said cushioning member including a top or crown portion and a depending body portion, the said depending portion being provided with a rigid reinforce in the body thereof adapted for coöperation with the said securing member.

1,397,575. SELECTIVE AUDION-AMPLIFIER. Lee de Forest, New York, N. Y., assignor to De Forest Radio Telephone and Telegraph Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 9, 1915. Serial No. 20,173. 12 Claims. (Cl. 179—171.)



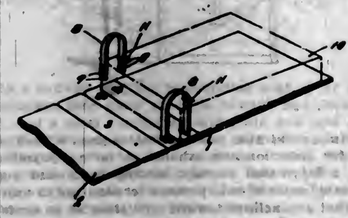
2. An amplifier, including an input and an output circuit, circuit connections therefor, and means associated therewith to selectively amplify the current of certain frequencies in the input circuit.

1,397,576. TELEGRAPHY. Thomas Bullitt Dixon, New York, N. Y. Filed Nov. 1, 1917. Serial No. 199,651. 26 Claims. (Cl. 178—63.)



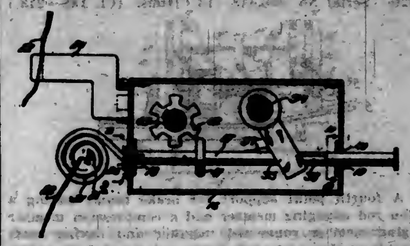
1. The method of neutralizing the effects of disturbing currents on the home receiving instrument, due to outgoing signaling currents from the home battery sent to line under conditions of imperfect balance between the main and artificial lines, which consists in utilizing outgoing currents having time and energy factors corresponding substantially to the time and energy factors of the disturbing currents to neutralize their own disturbing effects on the home receiving instrument.

1,397,577. LOOSE-LEAF BINDER. Julius Engelland, St. Louis, Mo. Filed Jan. 27, 1921. Serial No. 440,390. 1 Claim. (Cl. 129—1.)



A loose leaf binder comprising a cover portion having a keeper plate provided with key hole openings, a detachable U-shaped spring clip, each leg of which is notched on opposite edges near its lower end and which legs are adapted to be moved toward each other for introduction into the larger portion of said keeper plate openings, said legs springing into the smaller portion of said key-hole openings to receive the edges thereof in said notches, thereby providing separate and detachable locking engagement for each leg.

1,397,578. GRAPHIC RECORDING MECHANISM FOR SPINNING-MACHINES. Seymour A. Gabel and Daniel R. Cahill, Bethlehem, Pa. Filed Feb. 24, 1921. Serial No. 447,396. 9 Claims. (Cl. 234—1.)



2. A machine of the character described including a movable yarn guide held in normal position by yarn passing therethrough; recording means, said yarn guide being automatically movable upon release of tension by the breaking of the yarn to effect the operation of said recording means, said recording means including a chart; and means for making a mark on said chart; substantially as described.

1,397,579. GARMENT-PROTECTOR. George K. Guinemund, New York, N. Y., assignor to I. B. Kleinert Rubber Company, New York, N. Y., a Corporation of New York. Filed July 2, 1920. Serial No. 393,526. 7 Claims. (Cl. 128—238.)



1. In a garment having an expansible opening the combination with the body of the garment composed of elastic waterproof material surrounding said opening of a continuous elastic waterproof binding which incloses the margin of said expansible opening and contracts and expands therewith.

1,397,580. THIRD-POINT SUPPORT FOR BRAKE-BEAMS. Arthur W. Hawkins, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 19, 1920. Serial No. 374,980. 4 Claims. (Cl. 188—213.)



4. A brake beam comprising a compression member, a tension member and a strut, the latter having its inner ends spaced apart, and a forging secured to said inner ends, said forging having a seat for the tension member and a rubbing shoe to form a third point support.

1,397,581. RAILWAY SIGNAL. [illegible], Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed July 15, 1920. Serial No. 396,448. 13 Claims. (Cl. 188—213.)



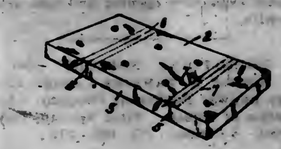
5. A fourth point support for brake beams having a tension rod engaging member and a compression member engaging member connected together and having seats for said tension rod and compression member, which seats are open at one side for quick detachment and attachment.

1,397,582. ELECTRIC SIGNAL. EDGAR W. HAMMAN, New York, N. Y. Filed July 14, 1916. Serial No. 109,241. 5 Claims. (Cl. 177—7.)



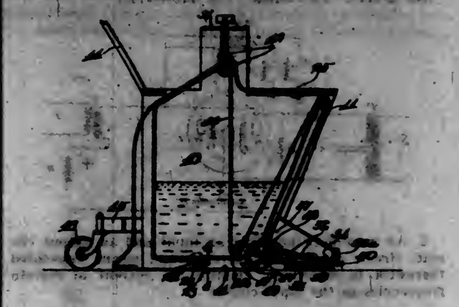
1. In a signal, the combination of a circuit, a magnet in the circuit, a rocking armature, means for producing electric impulses in the magnet, a diaphragm, and spring means acting to hold the armature normally in a position in which it exerts no pressure on the diaphragm but permitting a rocking movement past such normal position in either direction whereby the armature is caused to vibrate in time with the electric impulses and vibrate the diaphragm at each impulse and between impulses.

1,397,583. CHICK-BOX. WILLIAM C. HUBER, Fostoria, Ohio. Filed June 7, 1920. Serial No. 388,941. 1 Claim. (Cl. 229—6.)



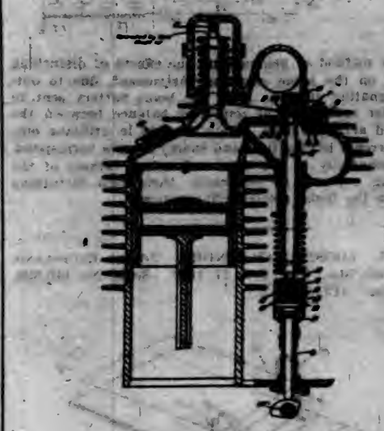
A box of the class described having a cover provided with depending side flanges and a perforated top, the opposite side flanges being slit entirely throughout their width, the meeting edges of the top and side flanges being slit in crossing and intersecting relation to each flange slit, and the top material between the edge slits being outwardly doubled to form a pair of external ridges, and the side flanges at the edges of the flange slits being fixed together in lapped relation, the ridges being disposed above the top and above the flanges thereof so as to provide a pair of supports to hold a superposed box spaced above the cover perforations and having their ends completely open to afford air inlets.

1,397,584. [illegible] AND SCRUBBING. [illegible], Chicago, Ill., assignor to Chicago Flexible Shaft Company, Chicago, Ill., a Corporation of Illinois. Filed July 31, 1920. Serial No. 400,702. 4 Claims. (Cl. 15—53.)



1. In a combined mopping and scrubbing machine, a mop, a traveling support for the mop, propelling means for said support, a vertically adjustable scrubbing unit detachably connected to the support, and a driving connection between the propelling means and the scrubbing unit.

1,397,585. VALVE MECHANISM FOR INTERNAL-COMBUSTION ENGINES. WILLIAM A. JAMES, London, England. Filed Apr. 26, 1921. Serial No. 463,881. 15 Claims. (Cl. 123—78.)



1. In an internal combustion engine, a port serving both for induction and exhaust, a valve controlling said port, a bifurcated passage leading from said port, the bifurcated arms of said passage terminating in valve seatings that are inclined toward each other at an acute angle, and a flap valve oscillating between said seatings.

1,397,586. BRUSH. CHARLES B. JEWETT, North Andover, and FRED BRINKMANN, Lawrence, Mass. Filed Nov. 26, 1920. Serial No. 426,587. 2 Claims. (Cl. 15—32.)

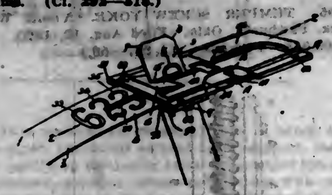
1. In a dubbing brush for sanding machines, the combination of a bristle block formed with a recess and a plurality of bristles being extending from one face thereof to said recess, said bristles being provided with a tuft of bristles, a plurality of staple blocks of penetrable material

an said recess, staples driven in said blocks and engaging the bristle tufts on setside the recess in the backs in the



bristle block, and a backing plate extending over the backs of the staple blocks and secured to the bristle block.

1,397,587. SEAL-LOCK. RAYMOND H. JONES, Marysville, Calif. Filed Apr. 28, 1920. Serial No. 377,867. 5 Claims. (Cl. 292—318.)



1. A seal comprising a casing, a lockable member, an actuator formed with bent sections extending within the casing, a plurality of identifying characters on the actuator arranged so that they are exposed successively as the actuator is brought to a locked position and detent means coacting with said bent sections and corresponding with successive identifying characters, said detent means and the bent sections preventing any return movement of the actuator, after each exposure of the successive identifying characters.

1,397,588. UPPER BUFFER FOR VESTIBULE CARS. PETER KASS, Chicago, Ill., assignor of one-third to Edward Brittain and one-third to Julius J. Acker, Chicago, Ill. Filed July 27, 1921. Serial No. 487,825. 8 Claims. (Cl. 105—10.)



1. In a railway car, the combination with a car frame, a diaphragm face plate movable toward and from said frame, and a hood connecting said plate and said frame, of a buffer between said frame and said plate above said hood comprising a bracket mounted on said frame, a spring controlled plunger slidable in said bracket, and a link connecting said plunger and said face plate and movable in a substantially horizontal plane.

1,397,589. FRAMING AND MITER GAGE. JAMES HARMER KNIGHT, Westtown, Pa. Filed Dec. 12, 1919. Serial No. 344,442. 1 Claim. (Cl. 143—69.)

In a gage of the class described, a frame, guide casings arranged in spaced relation vertically on the frame, saw carrying slides each mounted in a respective casing and movable vertically thereto, the casings and slides being correspondingly slotted to receive and support a saw passing therethrough, vertical screws each freely mounted

on the frame adjacent a respective casing, and thumb nut engaging notches at their upper ends engaging respective nuts, said nuts being independently revoluble whereby to effect independent adjustment of the respective slides.

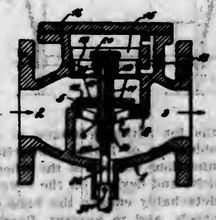


1,397,590. BRAKE. JOHN M. LANSDEN, New York, N. Y. Filed Dec. 2, 1918. Serial No. 264,891. 17 Claims. (Cl. 188—79.)



1. A brake, comprising a drum, a plurality of pairs of brake shoes pivoted within the drum, the shoes of each pair being arranged on diametrically opposite sides of the drum, and means outside of the drum for independently engaging a shoe of each pair to the drum.

1,397,591. VALVE. CHARLES C. LAUBITSEN, Cleveland, Ohio, assignor to The Ohio Body & Blower Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 12, 1920. Serial No. 373,801. 7 Claims. (Cl. 137—104.)



8. In a valve of the character set forth, the combination of a casing divided into an inlet and an outlet compartment by a partition having an opening surrounded by a valve seat, the casing involving a cylinder opening into the inlet compartment, a piston within the cylinder, a valve element for cooperation with the valve seat and having operative connection with the piston so as to move in unison therewith, the piston having a greater area exposed to the inlet compartment than has the valve element, there being a by-pass through which the outer end

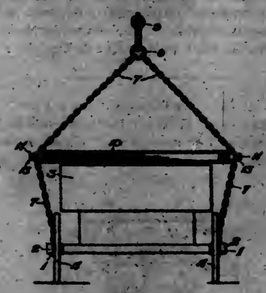
of the cylinder, communicating with the valve compartment and which is closed from the valve compartment when the valve element is on its seat, and element governing the escape of fluid from the cylinder.

1,397,592. TIRE-CHAIN TOOL. JOHN D. McCOY, Kirksville, Mo. Filed Sept. 23, 1920. Serial No. 412,622. 1 Claim. (Cl. 254—72.)



In a device of the class described, a pair of crossed members pivotally connected at their point of crossing and each comprising a jaw and a handle, the jaws being provided on their side surfaces, at points adjacent to their ends, with hooks which project toward each other, the hooks being located in a plane at right angles to the plane defined by the jaws and the handles.

1,397,593. WAGON-LIFTING APPARATUS. CHAUNCEY L. C. MAGUN, Chicago, Ill. Filed May 20, 1920. Serial No. 382,881. 12 Claims. (Cl. 214—42.)



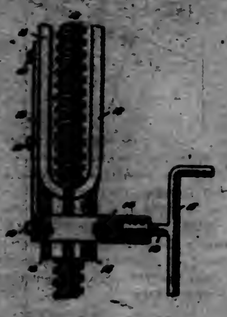
1. In apparatus for lifting a wagon or other wheeled vehicle, the combination of lifting connections, means to support said connections outside of the wheels at opposite sides of the vehicle, and devices on the lower ends of said connections to detachably engage the hubs outside of the spokes of the wheels, and to prevent disconnection from the hubs while the lifting strain is on said connections.

1,397,594. VEHICLE CONSTRUCTION. HOMER CHESTER MOORE, New York, N. Y., assignor of one-half to William P. Hammond, Passaic, N. J. Original application filed Oct. 25, 1917, Serial No. 198,977. Divided and this application filed June 9, 1919. Serial No. 302,690. 5 Claims. (Cl. 280—110.)

1. A vehicle-body provided with front and rear compartments and having side entrances communicating with said compartments, seats within said compartments, and a sill member for guiding movement by way of said side entrances from one compartment to the other, said sill member having a transom and adapted to be arranged over either one of said compartments.



1,397,595. TEMPER-SCREW YOKE. VIRGIL WARREN MORRIS, Pawhuska, Okla. Filed Aug. 12, 1920. Serial No. 403,060. 4 Claims. (Cl. 287—20.)



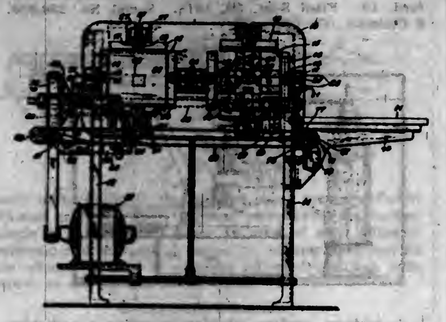
1. A yoke for temper screws having a threaded opening in one side for the yoke screw and an upwardly extending brace on its opposite side.

1,397,596. CALCULATING DEVICE. HENRY MUELLER, East Orange, N. J. Filed July 12, 1916. Serial No. 108,846. 6 Claims. (Cl. 235—60.)



1. A calculating device comprising a collection of loose calculating slides of equal length, and a composing holder having a support and adapted to receive a selection of said slides in any predetermined order.

1,397,597. MACHINE FOR PRESSING NECKS IN BOXES. CHARLES H. RUESCH, Philadelphia, Pa., assignor to Stokes and Smith Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 20, 1919. Serial No. 312,960. 20 Claims. (Cl. 93—55.)



1. In a machine for pressing necks in boxes, a stationary support, two forms secured to the support, each adapted to receive an externally located assembled box and neck for pressing, pressing means coöperating with each form to press the sides of the box assembly located thereon, and means for operating the two pressing means alternately.

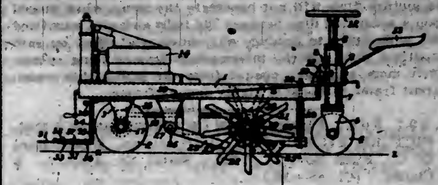
1,397,598. SUPPORT FOR ROCKER-SHAFTS AND THE LIKE. BRUNO V. NORDBERG, Milwaukee, Wis. Filed June 1, 1920. Serial No. 385,496. 6 Claims. (Cl. 64—14.)



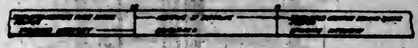
6. In combination with a shaft; a pintle like support for each end of the shaft; and a plurality of parallelogram like supporting members for the shaft, each member comprising a lever secured to the shaft, the fulcrum whereof is coincident with the axis of the shaft, a second lever fulcrumed at its center upon a fixed element located to one side of the shaft, and a pair of parallel links pivotally connected to the opposite ends of the levers in pairs.

1,397,599. AGRICULTURAL IMPLEMENT. CHARLES OWENS, Chattanooga, Tenn. Filed Sept. 9, 1920. Serial No. 409,084. 9 Claims. (Cl. 55—85.)

1. In combination in an agricultural implement, a frame, a grid consisting of arms supported at their front ends and a spring for pressing the rear ends down and permitting the grid to yield vertically, and rotary cutters operating between the members of the grid, substantially as described.

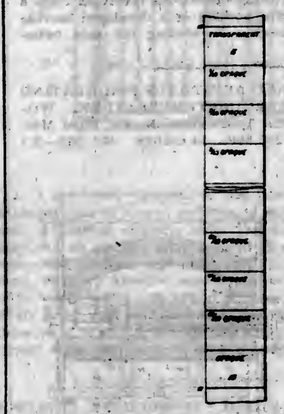


1,397,600. PRODUCTION OF "DISSOLVE" EFFECTS IN MOVING-PICTURE FILMS. WILLIAM O. OWEN, Washington, D. C. Filed Oct. 12, 1920. Serial No. 416,429. 6 Claims. (Cl. 88—16.)



1. A process of making a "dissolve" between two successive scenes of a moving picture film, which comprises printing from the last few photographs of that portion of a moving picture film which corresponds to a given scene, such photographs being of approximately equal intensity, a succession of prints upon a moving picture film, such succession of prints being of successively lower intensity, such successively lower intensity being produced by gradually reducing the light admitted to such printing operation, also printing upon the said portion of such second-mentioned film from the first few photographs of that portion of a moving picture film which corresponds to the commencement of the succeeding scene, such photographs also being of approximately equal intensity, a succession of prints of successively greater intensity, such successively greater intensity being produced by gradually increasing the light admitted to such printing operation, the margins of the two sets of prints being substantially coincident, and thereafter developing the said second-mentioned film.

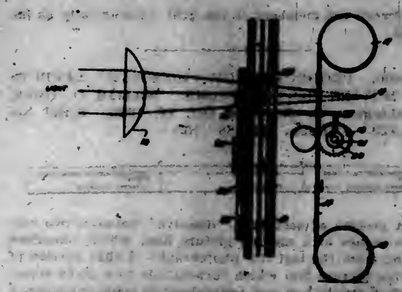
1,397,601. DEVICE FOR USE IN FADE-PRINTING. WILLIAM O. OWEN, Washington, D. C. Filed Nov. 11, 1920. Serial No. 423,418. 3 Claims. (Cl. 88—19.5.)



1. A film for fade-printing a moving picture film, composed of a series of frames each being unprovided with pic-

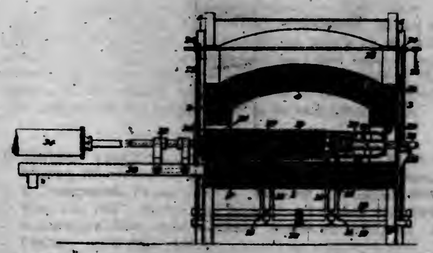
tween, the frame at one end being highly transparent and the frame at the other end being of sufficient opacity so that the amount of light ordinarily used in printing moving picture films will not penetrate the same, when placed upon a sensitized film, between the light and said sensitized film, sufficiently to produce any substantial effect on said sensitized film, and the intermediate frames being successively more and more opaque from the said highly transparent frame to the said highly opaque frame.

1,397,602. PRODUCTION OF EFFECTS ON MOVING-PICTURE FILMS. WILLIAM O. OWEN, Washington, D. C. Filed Nov. 11, 1920. Serial No. 423,417. 4 Claims. (Cl. 88—16.)



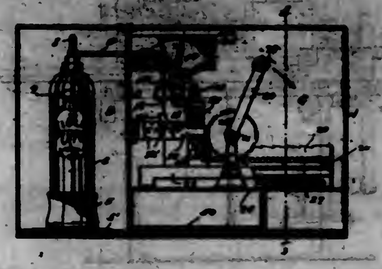
1. A process of printing moving picture films having inset portions, which comprises covering up a corresponding portion of each of a series of frames of the section of an undeveloped sensitized film strip being printed upon, by an appropriately shaped opaque cut-out, located between the source of light and the strip being printed upon, while such strip is being intermittently moved past said cut-out, and while said film strip is being passed through a printing operation, thereby printing images upon the exposed portions of each of such frames, such film being of a size adapted for use in a moving picture projection apparatus; and without developing such partly printed film, intermittently moving such partly printed film into successive positions, in which the portions of the successive frames printed upon in such first printing operation are covered up by an appropriately shaped cut-out located between the film being printed upon and the source of light, while printing from some other film structure, a series of photographic images upon the portions of the frames not printed upon in such first-mentioned printing operation; at least one of such printing operations involving from a succession of frames of a portion of a developed moving picture film; and thereafter developing the said twice-printed film.

1,397,603. METHOD AND APPARATUS FOR HEATING LONG BLANKS TO FORGING TEMPERATURE. WILLIAM B. PEIRCE, North Tonawanda, N. Y. Filed Mar. 28, 1919. Serial No. 285,980. 14 Claims. (Cl. 263—3.)



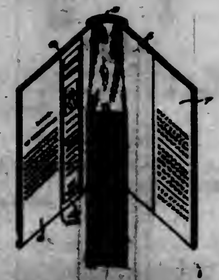
1. The method of heating a long metal blank which method consists in forming the same into an open helical coil long enough to make a self-supporting coiler when laid on its side, and rolling the base coil progressively upon its own periphery along a suitable support in a reverberatory furnace.

1,397,604. VENDING-MACHINE. ALBERT E. PYAU, Rockford, Ill. Filed Sept. 30, 1918. Serial No. 256,236. 6 Claims. (Cl. 221—102.)



1. A perfume vending machine including a container equipped with compressible means for dispensing the contents thereof, a rotatable shaft carrying mechanism to operate the compressing means, gear wheels carried by said shaft, and springs actuated vault bars in mesh with said gear wheels and operable by movement of said shaft to tension the springs of the rack bars whereby the latter are automatically returned when the shaft is released.

1,397,605. BOOK-COVER. WILLIAM M. REGARS, Philadelphia, Pa., assignor to Penn Publishing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 5, 1921. Serial No. 489,812. 4 Claims. (Cl. 281—34.)



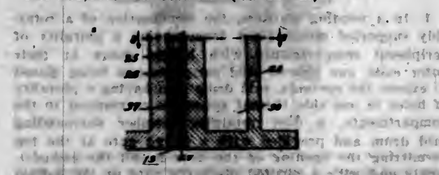
1. A device of the class described, comprising an elongated strip of material adapted to be folded along spaced, transversely extending lines to form a relatively narrow section, sections of equal width on each side of and adjacent thereto and end sections of unequal width, one of said end sections being provided with a transversely extending row of perforations to facilitate the detachment of the extreme end portion of the section therefrom, said perforations being disposed at such a point that when said end section is detached the remaining portion of the device will be substantially symmetrical with respect to said relatively narrow section.

1,397,606. SAFETY-SHIELD FOR CIRCULAR SAWS. CHRISTIAN M. SMITH, Elgin, Ill. Filed July 29, 1918. Serial No. 247,273. 3 Claims. (Cl. 143—159.)

1. In a safety shield for saws, the combination of a guard arm member, means for pivotally supporting said guard arm member in position to swing in the same vertical plane with and extend over the upwardly moving peripheral portion of a saw, a vertical guard plate mounted in position to extend over and in the same vertical plane with such saw and below the free end of said pivoted guard arm, an outer hood-shaped member adjustably connected upon said guard arm member and having transparent wall portions adapted to extend over and in position to inclose the upper peripheral portion of the saw, said hood being adapted to be raised and lowered bodily with respect to said pivoted guard arm to different adjusted positions over the saw, and having its bottom margin in a horizontal plane in each of such adjusted positions, and mechanical means for raising and lowering said adjustable hood to different adjusted positions with respect to the pivoted guard arm.

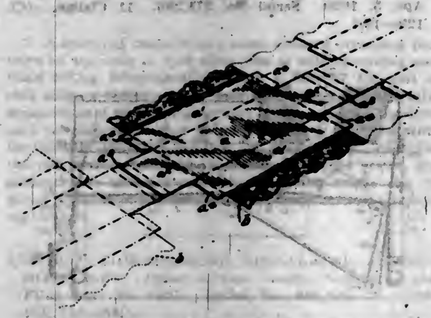


1,397,607. PROCESS OF MAKING METALLIC PRINTING-PLATES. CHRISTIAN M. SMITH, Elgin, Ill. Original application filed May 24, 1917, Serial No. 170,669. Divided and this application filed Oct. 20, 1918. Serial No. 260,408. 13 Claims. (Cl. 22—2.)



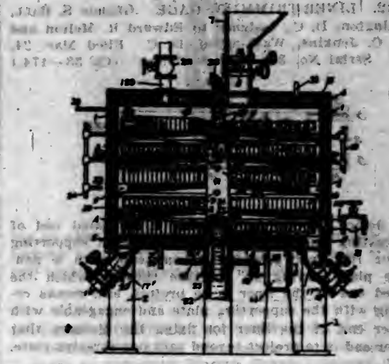
1. The process of making metallic printing plates, which consists in placing a metallic electrotype shell in a mold, placing a flexible metallic barrier sheet in contact with the back of the electrotype shell in position to hold said shell in contact with the wall of the mold, then introducing molten metal in contact with the exposed surface of the flexible barrier sheet and in position to press said sheet against the back of the electrotype shell, then causing the molten metal to come into uniting contact with the electrotype shell, and then permitting the molten metal and electrotype shell to cool.

1,397,608. PAPER-BOX CONSTRUCTION. HARRY BERGEMAN SMITH, Brooklyn, N. Y. Filed June 1, 1918. Serial No. 237,710. 3 Claims. (Cl. 229—34.)



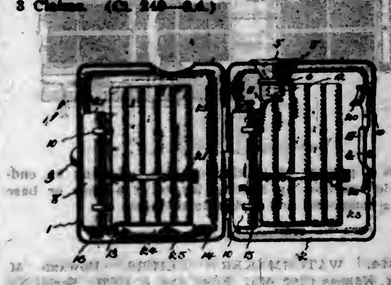
1. As a new article of manufacture, a covering blank adapted to be adhesively attached to the exterior walls of a paper box shell, said blank being formed of flexible, readily foldable material, and comprising a body portion having integral side and end wings all of proper dimensions to cover the bottom side and end walls of the box shell, each of the side wing portions of the blank having integral facially embossed extensions constituting edging strips, said edging strips being spatially positioned to permit projection into the covered box shell in overlying relation to the marginal portions of opposite walls of the shell.

1,397,609. METHOD FOR PERFORMING CHEMICAL REACTIONS. WALTER O. SNELLING, Long Island City, N. Y. Filed Sept. 7, 1916. Serial No. 118,843. 5 Claims. (Cl. 23—21.)



1. The process of making ammonia that comprises progressively advancing alkali earth cyanamid in contact with an aqueous fluid.

1,397,610. COMBINED CIGARETTE OR LIKE CASE AND ELECTRIC TORCH. SAMUEL A. APPELL, New Haven, Conn. Filed Feb. 25, 1920. Serial No. 361,146. 3 Claims. (Cl. 240—6.4.)



1. A combined cigarette or like case and electric torch having a pair of hinged sections; a battery cell secured in each section on opposite sides thereof when in a closed position; an electric lamp secured in one section; a fixed connection between said lamp and the cell secured in the same section; another connection between said battery cells, which latter connection is made and broken respectively when said sections are in the closed and open positions; and a switch for making and breaking an electric circuit from said battery cells to said lamp.

1,397,611. BATH-BRUSH. HORACE E. BAILEY, Brookline, Mass. Filed June 21, 1919. Serial No. 305,768. 5 Claims. (Cl. 15—26.)

1. A bath brush comprising a resilient porous body and a back of impervious material overlying the body and

secured directly thereto throughout the marginal portions of the body, the central portion of the trunk being free



from the body, thereby to form a pocket, and said pocket having a slit constituting an opening into the pocket through which soap may be introduced therewith.

1,397,612. LINER-TRIMMING GAGE. GEORGE S. BALL, Washington, D. C., assignor to Edward R. Melton and John C. Jenkins, Washington, D. C. Filed Mar. 24, 1920. Serial No. 368,220. 6 Claims. (Cl. 33—174.)



1. A device for use in trimming a mutilated end of a type casting machine liner comprising a flat supporting plate for the liner provided at one end with a non-abrasive plate having an aperture through which the mutilated end of the liner is to project, and means co-operating with the supporting plate and engageable with the other end of the liner for fixing the distance that the inner end is to project beyond said non-abrasive plate.

1,397,613. PROCESS OF MAKING CYANIDS. OSCAR L. BARNEBEY, Cleveland, Ohio. Filed Mar. 19, 1919. Serial No. 283,638. 12 Claims. (Cl. 23—13.)



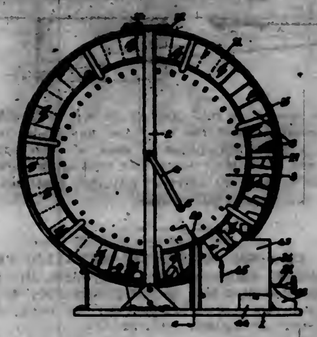
1. In a process of making cyanide, effecting an endothermic reaction by heating layers of a base or base yielding compound and carbon in nitrogen.

1,397,614. WATCHMAKER'S PLIERS. EDWARD M. BARY, Kansas City, Mo. Filed Apr. 5, 1920. Serial No. 371,262. 2 Claims. (Cl. 29—88.1.)



1. Staking tool pliers comprising a pair of relatively movable jaws, one of said jaws having a stump receiving socket and a plunger guiding passage in alinement with said socket, the other of said jaws having a punch receiving opening and a passage intersecting said opening, a block fitting said second passage and provided with an opening for accommodating the punch and means for securing said block in changing engagement with the punch with the latter in sliding relation to said guiding passage.

1,397,615. VENDING-MACHINE. FRED R. BASSETT, Paw Paw, Mich. Filed May 16, 1921. Serial No. 469,806. 10 Claims. (Cl. 211—8.)



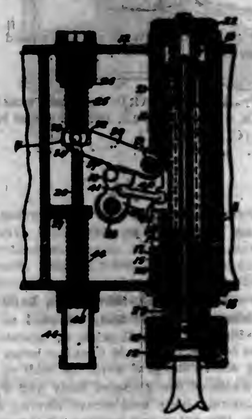
1. In a vending machine, the combination of a rotatably supported merchandise drum having a plurality of peripheral compartments with hinged doors at their outer ends, one side of said compartments being glazed to expose the contents, said drum also having a plurality of holes in one side thereof spaced to correspond to the compartments, a door retaining member surrounding said drum and provided with a filling gate at the top permitting the opening of the door to fill the compartments and with a pivoted discharge gate at the bottom adapted to allow the opening of a door alined therewith to discharge the contents of a compartment, a drum lock pivotally mounted to project upwardly at the side of the drum and having an engaging portion adapted to enter said holes in the drum when one of the drum compartments is in discharging position relative to said discharge gate, a push rod, operating connections for said push rod to said drum lock whereby actuation of the push rod to open the gate is prevented except when one of the holes in the side of the drum is in alinement with the locking dog and rotation of the drum is prevented while the discharge gate is open, and a coin controlled locking means for said push rod.

1,397,616. LOOSE-LEAF-FILING-SYSTEM POSTING-TRAY. HARRY C. BASTEN, Benton Harbor, Mich. Filed Apr. 5, 1920. Serial No. 371,296. 11 Claims. (Cl. 129—16.)



1. In a device of the class described, means for supporting a filing drawer thereon, and means associated with said means for upsetting leaves in said drawer when the drawer is supported on the first named means, in combination with instrumentalities for automatically operating said upsetting means, whereby the latter are, by the manipulation or shifting of the leaves, caused to move intermittently toward the rear end of the filing drawer.

1,397,617. BOTTLE-CAPPING APPARATUS. CLEMENTS G. BELDEN, Baltimore, Md., assignor to The Crown Cork and Seal Company of Baltimore City, a Corporation of Maryland. Filed Apr. 5, 1919. Serial No. 287,711. 11 Claims. (Cl. 220—84.)



1. In a capping apparatus, the combination with a capping head, of a throat device carried by said head and movable relative thereto, a compensating spring, a lever acted upon by said spring, a force transmitter in engagement with said lever and movable to make a shifting contact along said lever, and a connector between said force transmitter and said throat device and having a pivotal relation with said elements.

1,397,618. STAIR-ROD. WILLIAM ALBERT BURNS, London, England. Filed May 20, 1920. Serial No. 382,954. 2 Claims. (Cl. 16—12.)



1. A stair rod comprising a stem, reduced extending portions at the ends of said stem, one of said extending portions fitting telescopically within a hole at the end of said stem, a spring within said hole adapted to normally maintain said telescoping portion in the extended position, said telescoping portion being adapted to be forced into the hole in the stem against its spring, when engaging the rod with fastening devices secured on the stairs, and subsequently released so that the spring forces the reduced portions of the rod into engagement with the fastening devices.

1,397,619. LOW-PRESSURE SIGNAL FOR AUTOMOBILE-TIRES. LODGE YOKON CHARD, Newcastle, Ind. Filed Apr. 30, 1921. Serial No. 465,880. 1 Claim. (Cl. 116—34.)

In a low pressure tire alarm, a plunger adapted to contact with the stem of the tire valve, a spring for the plunger, an internally threaded cap comprising a whistle, said cap engaging the spring to vary its pressure and having an annular flange extending over the whistle opening forming a protective casing to prevent access of dust to said opening, substantially as set forth.



1,397,620. MULTIPLE-URN CONSTRUCTION. WARREN F. CLARK, Cleveland, Ohio, assignor, by mesne assignments, to Automatic Electric Heater Company, Warren, Pa., a Corporation of Delaware. Filed Dec. 24, 1919. Serial No. 347,238. 6 Claims. (Cl. 219—44.)



1. The combination with a plurality of liquid containing receptacles, a beverage receptacle located in each of the liquid containing receptacles, means for dispensing the beverage from said beverage receptacles, a heating receptacle, conduits connecting two points of each receptacle with two points of the heating receptacles, valves controlling said conduits whereby either or both of the liquid containing receptacles may be connected with the heating receptacle and means for heating said heating receptacle.

1,397,621. CONDENSER. JOHN C. CORBIN, Seattle, Wash. Filed May 4, 1920. Serial No. 378,862. 4 Claims. (Cl. 257—29.)

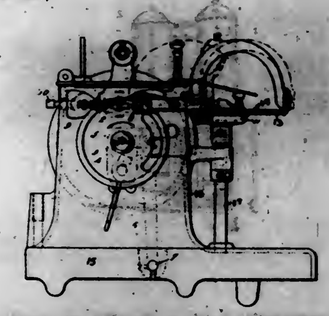
1. The combination with a condenser, of an oil intercepting chamber adapted to be normally submerged in the cooling medium circulating through said condenser, said chamber having suitable opening for the ingress and

ceiver of the gases to be purified and confined, means for drawing the intercepted gases from said chamber, and



means actuated by the pressure of said gases adapted to automatically control the flow of said sealing medium.

1,397,622. SEWING-MACHINE. HERBERT CORBALL, Helensburgh, Scotland, assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Feb. 19, 1918. Serial No. 218,016. 8 Claims. (Cl. 112—18.)



1. In a sewing machine, in combination, a feed-wheel against which the material is held during the feed movements thereof, a presser opposed to said feed-wheel, a mainshaft and connections for shifting the presser toward and away from the feed-wheel, said connections including to-and-fro moving actuator, and a spring interposed between said actuator and presser and adapted to be compressed by the actuator in forcing the presser toward the feed-wheel.

1,397,623. REINFORCING-CORNER FOR RECEPTACLES. HENRY C. DORN and HERMAN A. LUNDIN, Milwaukee, Wis., assignors to D & L Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 16, 1920. Serial No. 359,023. 5 Claims. (Cl. 217—69.)

1. A device of the class described comprising a reinforcing-corner of sheet metal having a raised portion and intervening inwardly-drawn flat edges thereof, and a second reinforcing-



corner shaped to depend outside of the raised portion of the other corner.

1,397,624. HAND-GUARD. GILES THOMAS EPLING, Welch, W. Va. Filed June 12, 1920. Serial No. 388,465. 3 Claims. (Cl. 128—133.)



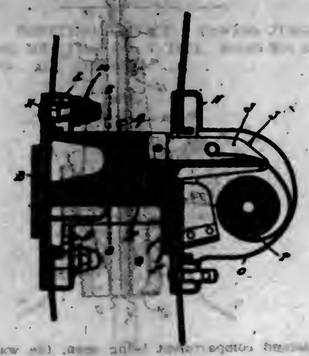
1. As a new article of manufacture, a hand guard for infants comprising a globular body adapted to house the hand and provided in its wall with an opening through which the hand is insertible, said opening being defined by an outstanding sleeve integral with the wall of the globular body, the walls of the globular body and sleeve being elastic, said globular body and sleeve having a normally fixed formation, the outer end portion of the sleeve being provided with openings at substantially diametrically opposed points, an elastic tape threaded through each of said openings and having its end portions in overlying relation, and a garment penetrating member carried by the free end portions of each of the tapes to provide attaching means.

1,397,625. RADIATOR UNIT. JOHN M. FREEMAN, Buffalo, N. Y., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y., a Corporation of New York. Filed Feb. 20, 1920. Serial No. 360,207. 5 Claims. (Cl. 257—128.)



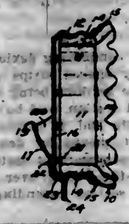
1. A radiator unit comprising a strip of sheet metal bent to form a triple corrugation on one of its sides, a double corrugation on its opposite side and two pairs of transverse walls, said triple corrugations consisting of a central corrugation and two side corrugations each of which tapers outwardly to a central longitudinal summit, each of said pairs of corrugations being arranged diametrically opposite one of the side members of the triple corrugations and tapering outwardly to a central longitudinal summit and each pair of transverse walls having an outer wall connecting the corresponding outer longitudinal edges of one of the pairs of corrugations and the adjacent side member of the triple corrugation, and an inner wall connected with the inner longitudinal edge of one of the pair of corrugations and engaging its opposite edge with one of the longitudinal faces between the intermediate and one of the side members of the triple corrugations.

1,397,626. DEMOUNTABLE WHEEL-SUPPORT. GEORGE G. C. FIELDSEND, Detroit, Mich., assignor to Detroit Pressed Steel Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 27, 1919. Serial No. 347,793. 6 Claims. (Cl. 224—29.)



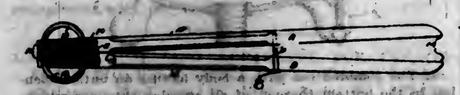
6. A demountable wheel support, comprising a member provided with a plurality of disk wheel seats arranged in spaced relation with each other, means extending beyond the outermost seat to form a guide for directing applied disks to the respective seats, in combination with means for facilitating the mounting of the disks and means for securing the disks both separately and collectively.

1,397,627. JAR-FOUNTAIN WATERER. JOHN M. FLITCRAFT, Elkhart, Iowa. Filed Jan. 31, 1921. Serial No. 441,589. 1 Claim. (Cl. 119—77.)



The combination of a cylindrical jar, having a reduced screw threaded neck, a cover adapted to coöperate with said jar whereby the jar and cover may be used as a drinking fountain, said cover having a screw threaded annular flange to coöperate with said neck and having a hole and a single piece of material for forming a combined trough and supporting member, said piece of material being bent so as to provide a portion spaced away from the cover and a portion adapted to rest against the outer for forming the trough and said material being also bent so as to provide a portion for engaging a part of the flange of the cover and thence bent downwardly for forming the support.

1,397,628. CLOTHES-TONGS. JOHN M. FLITCRAFT, Elkhart, Iowa. Filed Mar. 8, 1921. Serial No. 451,020. 1 Claim. (Cl. 68—6.)



A pair of clothes tongs comprising a pair of similar members having portions thereof adapted to normally abut against each other for providing a fulcrum, a pivot member pivotally received in the abutting sections of said members, the rear ends of said members being provided with registering grooves, a spring extended around the rear ends of said members and received in said grooves for normally holding the opposite ends of said pair of members spaced away from each other, and means mounted in one of said members and slidably received in the other of said members for limiting the movement of said members relative to each other; the parts being so arranged that the said last means and said spring form a guide and retaining means for preventing rotary or longitudinal movement of the members relative to each other.

1,397,629. MANURE. HARRY ERNEST FRY, Dorchester, England. Filed Mar. 16, 1921. Serial No. 452,770. 7 Claims. (Cl. 71—9.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. A complete manure comprising two separate portions, one of said portions containing a preponderating proportion of the elements carbon, oxygen, nitrogen, hydrogen, and phosphorus in a form available as plant food, such portion adapted to be placed at a substantial depth in the soil; and the other of said portions containing a preponderating proportion of compounds of the elements potassium, sodium, calcium, magnesium, and iron in a form available as plant food, such latter portion adapted for use as a top dressing, and such two portions being adapted for application to the same body of soil, at the different levels stated.

1,397,630. AUTOMOBILE FLOW-LINE PROTECTOR. ARCHIE W. GIBBONS, Kansas City, Mo. Filed Mar. 21, 1921. Serial No. 454,326. 12 Claims. (Cl. 251—6.)



1. In a device of the kind described, the combination with the floor of an automobile, of a fuel flow line conductor having a removable section disposed above said floor, substantially as set forth.

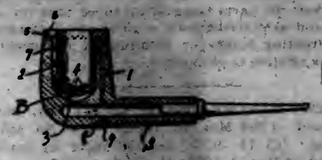
1,397,631. APPARATUS AND PROCESS FOR FILLING AND CLOSING CAPILLARY CONTAINERS. WALTER GOODCHILD, Hoboken, N. J., assignor, by mesne assignments, to Nipa, Incorporated, a Corporation of New Jersey. Filed May 15, 1919. Serial No. 297,424. 7 Claims. (Cl. 226—75.)



4. The process of introducing liquid into a tube having capillary open end sections which consists of placing one

open end of the tube in the liquid and expecting the other open end adjacent the mouth of a tube through which a suction is maintained.

1,397,632. SMOKING-PIPE. Gideon A. Highfield, Scranton, Pa. Filed Mar. 27, 1920. Serial No. 369,260. 1 Claim. (Cl. 131—12.)



In combination with a tobacco pipe having a restricted port disposed through the wall of the bowl and in communication with the bore of the stem, a sleeve snugly fitting within the chamber of the bowl and provided at its inserted end with a perforate head, the opposite end of the sleeve being defined by a flange for contact with the outer edge of the bowl, the contacting face of the flange being provided with an annular groove registering with the restricted port, the groove of the flange being in communication with a channel in the periphery of the sleeve open at the bottom of the sleeve.

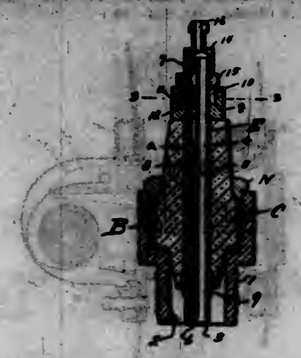
1,397,633. REEL FOR ELECTRIC-WIRE CONNECTIONS. Alva L. Hite, Pomeroy, Ohio. Filed May 23, 1919. Serial No. 299,109. 1 Claim. (Cl. 173—367.)



A reel for electric wire connections comprising a stationary casing, means for mounting said casing on a stationary support, said casing having removable caps on its opposite ends, said casing being of cylindrical form in cross section and having an aperture for the passage of a conductor leading to a translating device, a stub shaft fixed to one of the caps, a drum having one end rotatably mounted on said shaft, spring means connecting the drum and shaft, an insulating plate having a central aperture and secured in one end of said casing between the other of said caps and the adjacent end of the drum, spaced electrical conducting collars carried in said aperture, spaced contact members mounted on a stub shaft of insulating material fixed to said drum and engaging the spaced electrical conducting collars, an electric cord wound on said drum and connected to the spaced contact members, said insulating member and said casing having registering openings leading to said spaced electrical conducting collars, and electric feed wires extended through said registering openings and connected with said spaced electrical conducting collars.

1,397,634. SPARK-PLUG. Fred A. Holmwood, Glendo, Wyo. Filed Mar. 12, 1921. Serial No. 451,759. 4 Claims. (Cl. 123—169.)

1. A spark plug including a hollow electrode having its firing end closed, and a partition extending within the bore of the electrode and terminating at a point spaced from the closed end of the electrode, said partition dividing the bore into two compartments, the outer end of one of the compartments being closed and the adjacent end



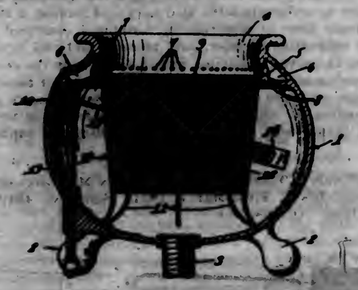
of the second compartment being open, the wall of the first compartment being provided with a port in communication with the atmosphere.

1,397,635. GARMENT-PRESS. James G. Johnson, Chicago, Ill. Filed June 28, 1919. Serial No. 307,271. 1 Claim. (Cl. 100—87.)



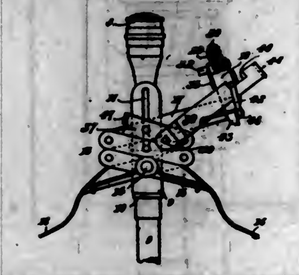
A press for trousers, comprising flexible top and bottom sections, rigid laterally spaced strips on the outside of the sections, one of the sections being spaced at one end from the strips on said section, and having its inner face recessed at the opposite end to accommodate a thicker portion of the garment, means for drawing the sections together, and a facing of absorbent material on the inner faces of the sections, the facing over the aforesaid recessed portion of one section extending into the recess.

1,397,636. CUSPIDOR. Thomas William Johnson, Denver, Colo. Filed Nov. 20, 1920. Serial No. 425,414. 2 Claims. (Cl. 4—40.)



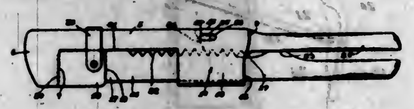
1. The combination with a body having an outlet opening in the bottom thereof, of an annular shoulder within the upper portion of the body, a basket supported in the body and having an open upper end engaging the shoulder, an annular passage within the wall of the body and adjacent the shoulder, said passage having outlet openings for directing jets of fluid downwardly into the open end of the basket and additional outlet openings for directing jets of fluid downwardly onto the outer surface of the basket, and means for directing liquid into the passage.

1,397,637. IGNITING DEVICE. Edward Jurkowski, Baltimore, Md. Filed Jan. 7, 1921. Serial No. 435,677. 8 Claims. (Cl. 67—201.)



1. In combination with a burner and an igniter therefor, means to normally support said igniter in a lowered position at one side of said burner and manually operable to raise the igniter to a point above said burner, of means automatically operable upon raising of the igniter above the burner, for actuating said igniter so as to produce sparks for igniting fuel issuing from said burner, said raising means including manually actuated lazy tongs normally spring pressed in collapsed condition, said igniter including a pivoted member normally maintained swung in one direction, and yieldably movable in the opposite direction, said automatic means including a pivoted latch normally spring pressed into engagement with said pivoted member and swinging the same from its normal position upon extension of said lazy tongs, and an upper link of said lazy tongs having a lateral lug arranged to release said catch upon complete extension of said lazy tongs.

1,397,638. WRENCH. Samuel M. Kathcart, Leadwood, Mo., assignor of one-half to William H. Cooper, Leadwood, Mo. Filed Oct. 21, 1920. Serial No. 418,383. 1 Claim. (Cl. 81—131.)



A wrench comprising a stationary shank, a jaw projecting from one side of the shank, a housing formed on the opposite end of the shank in alinement with the jaw, the ends and one side of said housing being open, a movable handle having an enlarged end portion, the extremity of said end portion forming a jaw, said handle being slidable through the housing, one end of the housing limiting movement of the handle in one direction, a guide member pivoted to said enlarged end portion and embracing the stationary shank, and a locking lever pivoted in the open side of the housing and arranged for interlocking engagement with the handle.

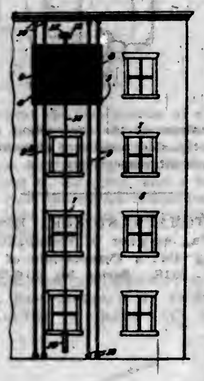
1,397,639. SIGNALING APPARATUS FOR USE ON ROAD-VEHICLES. Arthur Harold Kilday, London, England. Filed Dec. 18, 1917. Serial No. 207,671. 2 Claims. (Cl. 116—45.)

1. A signaling device for use on road vehicles, comprising a casing, an aperture in the said casing at which a signal light is constantly exposed, two signal arms adapted to indicate direction and inclosed and mounted in the said casing in such position as to intercept the signal



light on their moving into the "on" position, and independent means for moving the respective signal arms from the "off" to the "on" position, substantially as described.

1,397,640. FIRE-ESCAPE. Louis Kocjan, Calumet, Mich. Filed May 16, 1921. Serial No. 469,876. 1 Claim. (Cl. 227—12.)

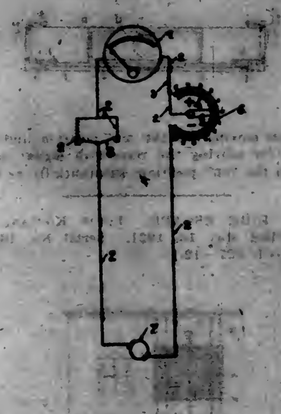


A fire escape including guide rails adapted to be mounted in a vertical position at opposite sides of superposed windows of a dwelling, a car including roof and floor members rigidly connected by means including corner posts having said guide rails slidably extending therethrough, further guide rails at opposite sides of the windows inwardly of the first named guide rails and slidably extending through the roof and floor members of the car with the portions of the same between the roof and floor members exposed, the sides and back of the car being inclosed by a foraminous wall and the corner posts and guide rails being located at the front of the car adjacent the dwelling, the space between the corner posts being open, counterbalancing means for said car to normally hold the latter in an elevated position, said counterbalancing means including a flexible member weighted at one end and having its other end attached to the roof of the car substantially centrally between the sides of the latter, and a pulley over which said flexible member passes, said pulley being adapted to be mounted upon the wall of the dwelling substantially midway between said guide rails.

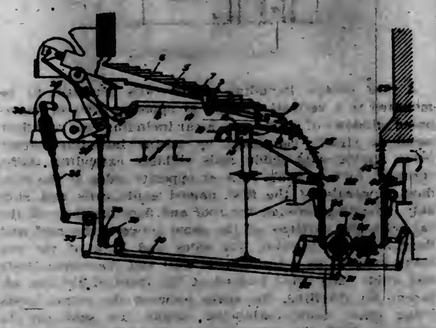
1,397,641. MEANS FOR DETECTING CHANGES OF RESISTANCE IN ELECTRIC CIRCUITS. Petrus van Santen Kolff, Philadelphia, Pa. Filed Dec. 9, 1916. Serial No. 136,060. 7 Claims. (Cl. 175—183.)

1. The mode of testing a circuit containing an indicating instrument the correctness of the indications of which depend on the constancy of the resistance of the circuit as initially determined upon, which consists in

temporarily interfering with the electric conditions obtaining when the said resistance element is in the circuit and out of the circuit respectively.



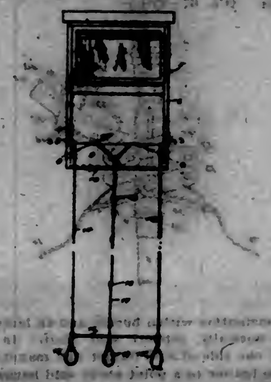
1,397,642. AUTOMATIC STOKER. EDWIN LUNDGREN, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co., a Corporation of Pennsylvania. Filed Feb. 9, 1916. Serial No. 216,389. 7 Claims. (Cl. 110—44.)



1. A furnace comprising an underfeed section, an air delivery stationary fuel supporting section, a reciprocating air delivery overfeed section supported on the fuel supporting section and adapted to receive fuel from the underfeed section, said stationary and overfeed sections having intercommunicating air passages, and means for delivering regulable amounts of air to one of the last-named sections.

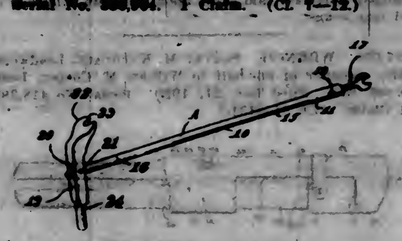
7. An ash discharge mechanism for mechanical stokers, comprising at least one retort discharging roll located at the bottom of a receptacle formed between the bridge wall and the fuel supporting elements of the furnace, in combination with a pair of pivotally mounted air-delivering spouts located in the front and in the rear of said mechanism, stationary air delivering sections located above and forming with said spouts front and rear walls of the receptacle, means actuated from the front of the furnace for adjusting the free edges of said spouts in different vertical combinations and for swinging said spouts toward and away from said combinations.

1,397,643. FIRE-ESCAPE. SARAH M. LYLE, Bridgeport, Ohio. Filed Jan. 5, 1921. Serial No. 435,197. 1 Claim. (Cl. 227—11.)



A device of the character described comprising a window casing having a compartment in the sill portion thereof, a pair of spaced pulleys disposed in said compartment, a cable engaged with said pulleys, a rod extended between and connecting the ends of the cable to each other, the intermediate portion of the cable and the rod being adapted to alternate in floating movement of the cable.

1,397,644. TRACKWALKER'S KIT. DAVID MCCARRON, Westwood, Guthrie, Canada. Filed Nov. 10, 1919. Serial No. 336,904. 1 Claim. (Cl. 7—12.)

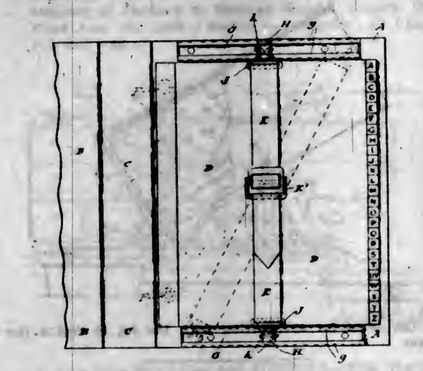


A track-walker's kit, comprising the combination with a pinch-bar having a reduced tip at one end and a socket at the opposite end, of a claw-hammer provided with an orifice adapted to frictionally engage with the tip end of the pinch-bar, means for mounting the claw-hammer to the tip end of the pinch-bar, and the claw-hammer having a reduced end designed to be inserted in the socket, as and for the purpose specified.

1,397,645. BINDER-CASE FOR DOCUMENT AND LIKE FILES. ALAN MACKENZIE MCNEILL and WILLIAM JOHN ABBOTT, Auckland, New Zealand. Filed Oct. 25, 1920. Serial No. 419,277. 2 Claims. (Cl. 129—14.)

1. A binder case for document and like sheets of book cover form, having means for the attachment of a file to the inside of its bottom cover and having side pieces each to extend laterally and detain both of the upper and lower edges of the said bottom cover, a slide

plate mounted in each of such guides and adapted to move to and fro along it, a loop pivoted to each of such plates,



and a band or strap passed through both of such loops and having means for securing its ends together.

1,397,646. BATTERY-HANDLAMP. LORENZ MAISEL, Madison, Wis., assignor to Burgess Battery Company, Madison, Wis., a Corporation of Wisconsin. Filed May 14, 1920. Serial No. 381,271. Renewed Oct. 5, 1921. Serial No. 505,566. 15 Claims. (Cl. 240—8.5.)

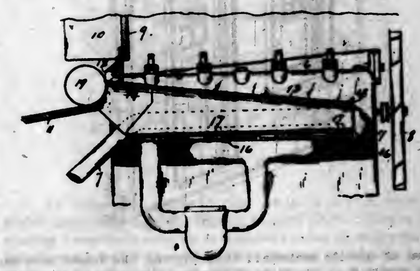


3. In a battery hand lamp, the combination of a casing by which the hand lamp is carried, a battery abutment at the front end thereof, a battery of dry cells placed end to end in said casing, a spring in said casing pressing said battery against said abutment, a conductor on said abutment, a lamp, means yieldingly mounting said lamp on said abutment and in circuit with said conductor, and a switch between said battery and said conductor, substantially as described.

1,397,647. PROCESS OF ELECTROLYSIS OF COPPER-BEARING SOLUTIONS. PERCY R. MIDDLETON, Los Angeles, Calif., assignor of one-half to John C. Lalor, New York, N. Y. Filed Feb. 16, 1920. Serial No. 359,110. 3 Claims. (Cl. 204—15.)

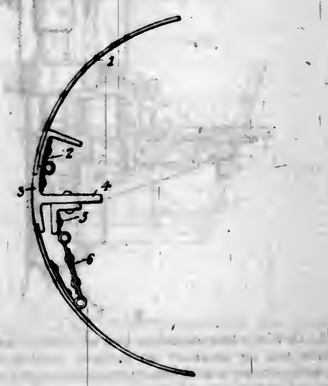
1. Process of treating metallurgical solutions containing a copper salt and a salt of a metal electropositive to copper, comprising passing an electric current through such solution while circulating the same through the cathode compartment of an electrolytic cell provided with a diaphragm and with an anode of the electropositive metal of which the salt is present in the copper-bearing solution, thereby depositing copper from the solution.

1,397,648. AUTOMOBILE-HEATER. LESLIE C. MILNER, Indianapolis, Ind. Filed Dec. 13, 1920. Serial No. 430,396. 6 Claims. (Cl. 237—12.3.)



4. In an auto-car the combination of a body, an internal combustion engine in a compartment in front of the body, a plate closure between the body and engine compartment, a heat distributing receptacle within the body removably secured to the plate, and a hood discharging the heated air from the engine compartment into the receptacle, said hood being in a plurality of parts connected by telescopic joints.

1,397,649. FORM FOR CONCRETE-PIPE MOLDS. JOHN C. MITCHELL, East Orange, N. J. Filed Sept. 21, 1920. Serial No. 411,722. 2 Claims. (Cl. 25—118.)

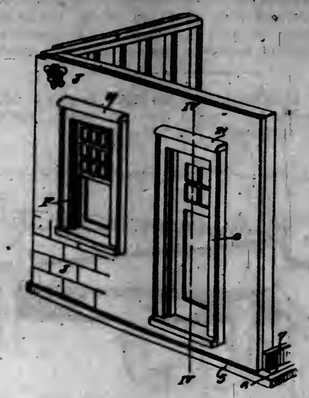


1. An inner form for a concrete pipe mold, comprising, in combination, a longitudinally split cylinder, a curved plate constituting a section of the complete cylinder hinged to one edge of the same, a bar or plate extending inwardly from such plate and a toggle connecting the said bar to a point near the adjacent edge of the cylinder.

1,397,650. BUILDING CONSTRUCTION. WALDEMAR J. PEDERSEN, Floral Park, N. Y. Filed June 21, 1919. Serial No. 305,878. 5 Claims. (Cl. 72—36.)

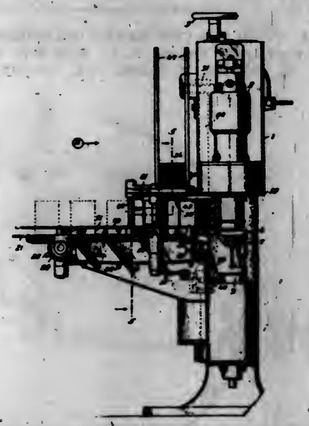
3. The method of building described, which consists in making frame sections, covering such sections on one side

with a wire netting; then forming a bed of plastic material; then forcing the wire netting and frame into the



bed of plastic material; then placing the frame sections in position at the time of forming the walls of the building.

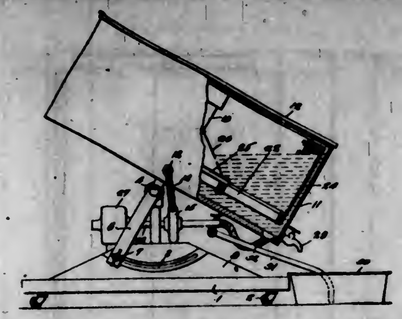
1,397,651. HEADING-MACHINE. JOSEPH PEYSER, Mount Vernon, N. Y., assignor, by mesne assignments, to Ackermann Manufacturing Company, Wheeling, W. Va., a Corporation of West Virginia. Filed Aug. 21, 1918. Serial No. 250,764. 18 Claims. (Cl. 113—14.)



1. In a heading machine, two adjacent plungers, one of which has an aperture, an upright member carrying one of said plungers, a sleeve surrounding said member carrying the other of said plungers, means for actuating the member and the sleeve independently one of the other, a rotatable member located in the plane of the aperture, a conveyer passing around said rotatable member for carrying can bodies to the plunger having the aperture, and means for conveying can bodies from said last-mentioned plunger to the other plunger.

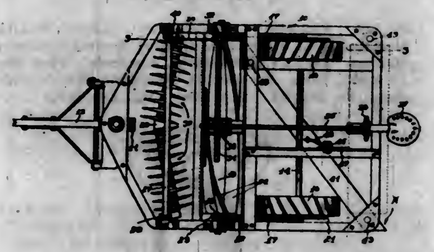
1,397,652. WASHING-MACHINE. JEFFERSON F. PIERCE, Tampa, Fla. Filed Jan. 3, 1921. Serial No. 434,615. 6 Claims. (Cl. 68—18.)

1. In a washing machine an angularly adjustable casing, a drum mounted for rotation therein and adjustable therewith, said drum having a foraminous wall, a nozzle projecting into the casing, means for forcing a jet of water through the nozzle and into the casing, and means carried



by the drum for coöperating with the jet to rotate the drum.

1,397,653. EARTHWORKING-MACHINE. THOMAS AUGUSTUS PRENDERGAST, Milbank, S. D. Filed Mar. 18, 1920. Serial No. 366,806. 3 Claims. (Cl. 37—11.)



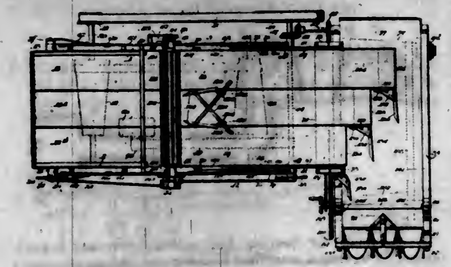
1. In a machine of the class described, a wheeled frame, a pair of earth working devices adapted to be lifted from operative positions, winding drums on the frame, mechanism for turning said drums in opposite directions, connecting means between said drums and earth working implements, the rotation of said drums in one direction being adapted to lift said earth working implements simultaneously, while the rotation of said drums in the opposite direction is adapted to lift one, only, of said implements from operative position.

1,397,654. ARTIFICIAL LIMB. ALEXANDER PRINGLE and THOMAS SINCLAIR KIRK, Belfast, Ireland. Filed Aug. 6, 1920. Serial No. 401,606. 12 Claims. (Cl. 3—12.)



2. An artificial limb joint comprising a plurality of frames, oppositely disposed toggles pivotally connected therewith and means for locking said frames against relative movement.

1,397,655. AUTOMATICALLY-OPERATING CAKE RECEIVING, SEPARATING, DIVIDING, AND CENTRALIZING MACHINE. PETER RASMUSSEN, Denver, Colo., assignor of one-half to Stephen Knight, Denver, Colo. Filed Aug. 30, 1920. Serial No. 406,928. 22 Claims. (Cl. 107—45.)

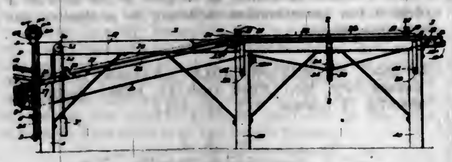


1. In a cake separating and dividing machine, the combination of the frame and the table mounted thereon, with a plurality of cake carrying, endless belt conveyers, arranged to run close to and over the surface of said table; projecting ribs on said table between said belt conveyers; and means for rotating said endless belt conveyer.

17. A drum for the purpose specified, comprising a circular series of spaced bars and head plates secured upon the ends of said bars, spaced gravity pins slidably mounted in each bar, and an axial shaft in said drum.

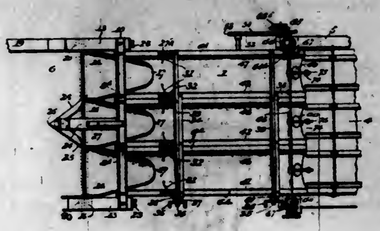
22. In a device of the character described, the combination with an endless conveyer comprising three separated belts which move in unison, and terminate at their discharge ends in stepped order, a stepped receiving plate under and adjacent the discharge ends of the conveyer, operating means for imparting an intermittent movement to said conveyer, reciprocating means connected with the operating means for moving the receiving plate beyond the end of the conveyer; and means for quickly retracting the plate to dislodge the goods thereon; of an endless conveyer for receiving said goods, and means at the discharge end of each belt of the first conveyer for alining the goods deposited on the second conveyer.

1,397,656. MULTIPLE-GUIDE-ROW STACKED-CAKE RECEIVING AND ASSEMBLING MACHINE. PETER RASMUSSEN, Denver, Colo., assignor of one-half to Stephen Knight, Denver, Colo. Filed Aug. 30, 1920. Serial No. 406,929. 8 Claims. (Cl. 107—45.)



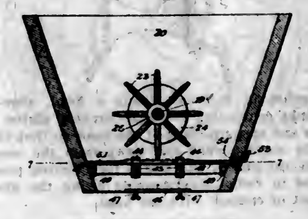
1. A multiple guide row stacked cake receiving and assembling machine, comprising a supporting frame and an endless, traveling, stacked cake conveying belt mounted therein, having an upwardly inclined portion, and a horizontal portion; means for raising or lowering the inclined portion and for counterbalancing the weight of said inclined portion; said inclined portion of said endless traveling belt being pivotally connected to said horizontal portion; said endless, traveling, stacked cake conveying belt being provided with a plurality of independently adjustable cake guideways.

1,397,657. TRANSVERSELY-ADJUSTABLE CHUTE FOR CAKE-STACKING MACHINES. PETER RASMUSSEN, Denver, Colo., assignor of one-half to Stephen Knight, Denver, Colo. Filed Aug. 30, 1920. Serial No. 406,930. 16 Claims. (Cl. 107—45.)



1. An adjustable group of cake stacking chutes, each of which comprises a semi-circular shaped chute; means including cross-bars secured to opposite sides of said chutes in alternate order for adjustably opening or closing said chute to receive cakes of different sizes; and means including a gravity device for assembling said cakes in rows at the discharge end of each chute; said chutes being supported at a downward angle from their cake receiving end to their discharge end; and means including threaded rods for raising the discharge end of said chutes; and means including a rotating shaft under said chutes for agitating said chutes.

1,397,658. AUTOMATICALLY-OPERATING MATERIAL-SPRINKLING HOPPER FOR MARSHMALLOW OR OTHER MATERIAL DEPOSITING MACHINES. PETER RASMUSSEN, Denver, Colo. Filed Aug. 16, 1921. Serial No. 492,729. 10 Claims. (Cl. 107—1.)

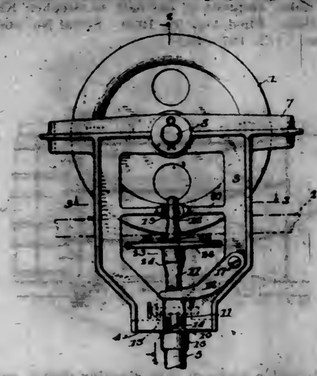


1. In a device of the character described, the combination with an endless conveyer adapted to receive spaced rows of cakes and move them forward by intermittent stages, of a hopper supported above said conveyer having a screened outlet, a rotatable agitator in said hopper, and means for partially rotating said agitator coincident with each pause in the movement of the conveyer, thereby to sprinkle material in said hopper upon the rows of cakes in successive order.

1,397,659. CABLE-GUARD FOR CARRIER PULLEYS OR TROLLEYS. EMIL A. ROESELER, Juneau, Wis. Filed May 24, 1920. Serial No. 383,788. 9 Claims. (Cl. 105—151.)

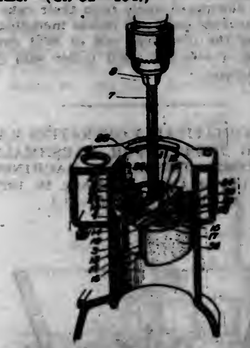
1. The combination with a carrier pulley and its harp, of a rotatable member connected with the harp and normally supported to rotate in a substantially horizontal

plane about an axis offset from the pulley, one side portion of said rotatable member projecting underneath the



pulley and in sufficient proximity thereto to prevent a release of the pulley from the track upon which it runs.

1,397,660. POLISHING-TOOL. ARDRA L. ROUSE, Kansas City, Kans. Filed Apr. 22, 1921. Serial No. 463,586. 10 Claims. (Cl. 51—194.)



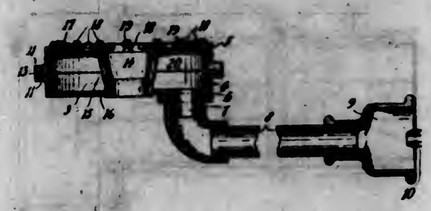
1. A polishing tool comprising a head, shoe-carrying plates, links connecting the shoe-carrying plates to opposite sides and opposite ends of the head so that the plates can bodily move toward and away from the head, shoes carried by the plates, and means for effecting pressure on the plates in radial directions to swing the plates outwardly out of contact with the head.

1,397,661. SHIELD OR PROTECTOR FOR PHOTOGRAPHIC CAMERAS. ELMER J. SARR, Bartlesville, Okla. Filed Jan. 22, 1921. Serial No. 439,219. 4 Claims. (Cl. 95—11.)



1. In a camera having an expanding bellows, means disposed within the bellows for preventing the deflection or collapse of the bellows, said means being rigid against longitudinal pressure.

1,397,662. GAS-BURNER FOR HEATING, COOKING, AND OTHER PURPOSES. WILLIAM L. SHAND and ALEXANDER McDONALD SHAND, Caulfield, near Melbourne, Victoria, Australia, assignors of one-half to Charles Columbine Jackson, Melbourne, Victoria, Australia. Filed Apr. 12, 1920. Serial No. 373,363. 2 Claims. (Cl. 158—99.)



1. A burner for heating and cooking purposes characterized by having a combined heating and mixing chamber; said chamber comprising an upper casing, a lower casing, mating flanges on said casings; means detachably clamping said flanges together, packing inserted between said flanges, a gauze partition in said chamber; a central air passageway through said chamber; means for the partial admixture of gas and air; means for conducting such partially admixed fuel to said chamber, nipples formed on the upper surface of said chamber and surrounding said air passageway, and holes in said nipples arranged so that those adjacent to the central air passageway are inclined toward the latter.

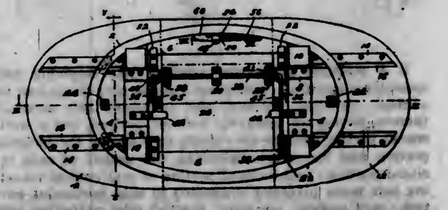
1,397,663. TREATMENT OF BUTTER-FATS. ALBERT F. STEVENSON, Ridgewood, N. J., assignor to Albert W. Johnston, New York, N. Y. Filed Feb. 4, 1920. Serial No. 356,197. 1 Claim. (Cl. 99—13.)

In the manufacture of pure anhydrous butter fat from milk, cream or butter, the process of removing from the fat any objectionable flavor when it exists, which consists in washing the separated butter fat with an alkaline solution, and rewashing the resulting product with an acidulated solution of a strength which is capable of removing the impurities dissolved by the alkaline solution.

1,397,664. MANUFACTURE OF MILK-FAT. ALBERT F. STEVENSON, Ridgewood, N. J., assignor to Albert W. Johnston, New York, N. Y. Filed Apr. 27, 1920. Serial No. 376,986. 2 Claims. (Cl. 99—13.)

1. In the process of recovering pure milk fat from sour cream, the initial step in the treatment of the cream, which consists in diluting the same with acidulated water of such a degree of acidity as to give to the mixture a hydrogen ion concentration sufficient to re-dissolve the precipitated casein.

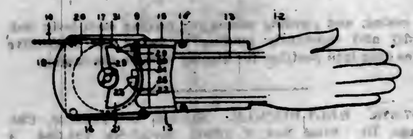
1,397,665. EXTENSION-TABLE. ANDREW H. STONE, Kansas City, Mo. Filed June 12, 1920. Serial No. 388,574. 4 Claims. (Cl. 45—112.)



1. In a table of the character described, a frame, slidable leaves mounted on said frame to slide apart or abut

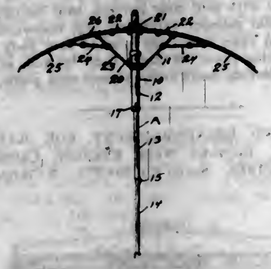
each other, foldable leaves operably connected and arranged to fold beneath said slidable leaves when the same abut or be extended between said slidable leaves when the same are slid apart, stops on the slidable leaves, and a rod rockably mounted on the frame and provided with means for engaging certain of the stops to lock said slidable leaves in abutting position and engage the other stops to lock the slidable leaves in extended position.

1,397,666. DIRECTION-INDICATOR FOR AUTOMOBILES. MICHAEL EDWARD WILSON, Detroit, Mich. Filed Aug. 4, 1921. Serial No. 489,770. 7 Claims. (Cl. 116—62.)



1. In an automobile signal, a semaphore arm having an arm-carrier with divided extensions upon which the display signal is borne, and a base piece upon which the semaphore arm is pivoted having a stop post projecting between the extensions of the arm-carrier.

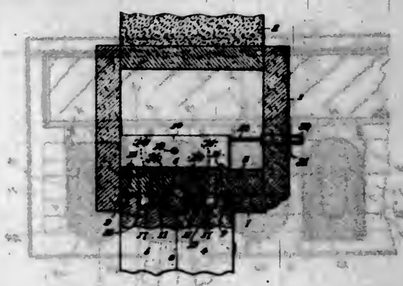
1,397,667. UMBRELLA OR PARASOL. WILLIAM SAMUEL WILSON, Cascades, Quebec, Canada. Filed July 29, 1919. Serial No. 314,047. 1 Claim. (Cl. 135—25.)



An article of the class described comprising a sectional stick, a collar on the end of the stick, a sleeve slidably mounted on the stick, ribs pivotally attached to the collar, stretchers pivotally connected to the ribs intermediate of the length thereof and attached to the sleeve, rods pivotally mounted intermediate of their length to the ends of the ribs, the arms of the rods being of unequal length, the longer arms forming continuations of the ribs, and links connecting the shorter arms of the rods to the said stretchers intermediate of the length thereof.

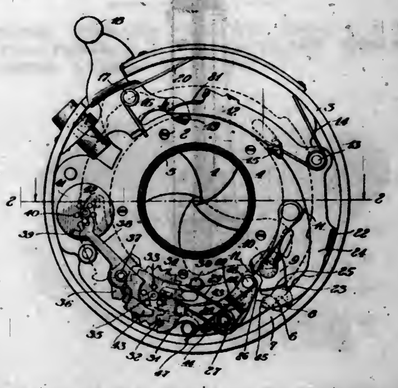
1,397,668. SASH-FASTENER. STEFAN WOJCIK, Detroit, Mich., assignor of one-half to Jacob Lewandowski, Detroit, Mich. Filed Nov. 30, 1920. Serial No. 427,435. 1 Claim. (Cl. 292—35.)

A sash fastener of the type described comprising in combination with window sashes provided with vertically alined sockets therein, a latch casing, a pair of sliding bolts mounted therein, a pin extending transversely of the casing between the bolts, a pair of independently operable spring arms supported on said pin and engaging at their ends one side wall of the casing and said bolts to normally hold the bolts projected into sash sockets, a bell crank pivotally mounted within the casing for each bolt and having a loose connection therewith, and independ-



ently operable devices for operating the bell cranks to shift the bolts against the tension thereon to remove the same from the sash sockets.

1,397,669. PHOTOGRAPHIC SHUTTER. ANDREW WOLLENSAK and FRIEDRICH A. GUSTAV PIRWITZ, Rochester, N. Y., assignors to Wollensak Optical Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 12, 1921. Serial No. 436,753. 5 Claims. (Cl. 95—63.)

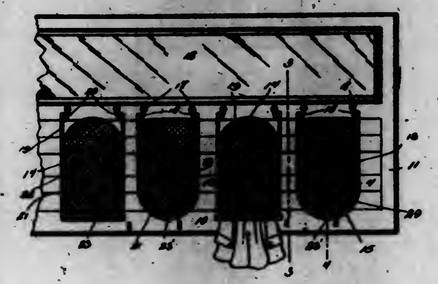


3. In a photographic shutter, the combination with blade mechanism, a master member for actuating the same and means for operating the master member, of a retarding device embodying an escapement wheel, a swinging segment geared to said wheel, an anchor coöperating with the wheel, a balance wheel and means for driving the latter from the anchor.

1,397,670. GARMENT-HOLDER. DAVID W. YORK, North Abington, Mass. Filed Aug. 23, 1920. Serial No. 405,503. 1 Claim. (Cl. 45—13.)

A device of the class described comprising a base having a plurality of openings formed therein, a plurality of inverted substantially U-shaped wire frames secured to the lower end of said base, a plurality of substantially U-shaped wire frames having the ends thereof terminating in coil springs secured to the upper ends of said base,

spring means carried by said frame and engaging said inverted U-shaped frame, dished covers carried by said frames, locks secured to said base adjacent to said open-



ings and a plurality of notched tongues carried by said frames extending into said openings and engaging said locks.

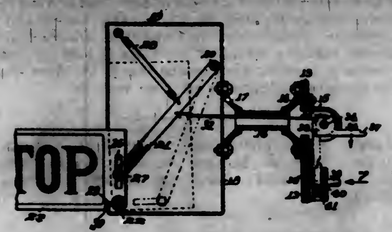
1,397,671. WINDOW. WILFRID H. BARRIERE, Worcester, Mass. Filed Sept. 27, 1920. Serial No. 413,048. 3 Claims. (Cl. 20—52.1.)



1. A window sash comprising a sheet of metal bent around to constitute pivot bearings, a movable strip extending across the window sash below and having two ends projecting into said pivot bearings, yielding means for holding said strip back near the window sash normally, and means for engaging the back of the strip and forcing it outwardly to permit it to project over the window sill.

1,397,672. DIRECTION-INDICATOR FOR AUTOMOBILES. WILFRID H. BARRIERE, Worcester, Mass. Filed June 13, 1921. Serial No. 477,230. 6 Claims. (Cl. 116—53.)

1. In an automobile signal device, the combination of a casing, a plurality of signal plates pivotally mounted in said casing on an axis near the outer edge thereof and at the bottom, each of said plates having a slot therethrough at the end located in vertical position when the plate is turned to horizontal position for displaying purposes, a lever connected with each of said plates through said slot and extending upwardly in the casing all of said levers being pivoted on a horizontal axis near the top and rear of



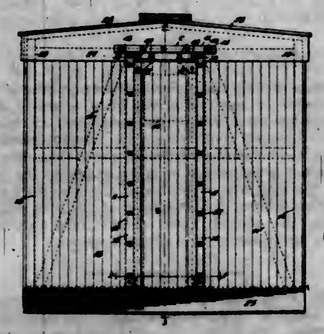
the casing, and yielding means for forcing each lever outwardly and constantly tending to swing the respective plates over into position for display outside the casing.

1,397,673. BELT-BUCKLE. SAMUEL BUCHSBAUM, Chicago, Ill. Filed Nov. 1, 1920. Serial No. 421,064. 4 Claims. (Cl. 24—186.)



1. A buckle comprising a one piece sheet metal body portion provided with a central opening, said body portion comprising side members and end members, the major portion of said side members lying in a plane, and holding means integral with said body portion, said holding means comprising a flat member extending first rearwardly from said plane and then forwardly toward said body portion to form a holding prong having a bend therein, said holding prong projecting rearwardly beyond said plane.

1,397,674. END REINFORCEMENT FOR RAILROAD BOX-CARS. RICHARD WEBB BURNETT, Chicago, Ill. Filed July 3, 1919. Serial No. 308,373. 5 Claims. (Cl. 105—411.)



1. In car construction, the combination with a box car having an end wall including intermediate end posts, outer wood sheathing, end sill, and end plate; of means for reinforcing said end wall comprising, Z-bars applied to the outside of said sheathing and extending between the end sill and the end fascia board, means for anchoring the lower end of each Z-bar individually to the end sill, and a relatively short cross member of Z-shape in cross section secured to and connecting the tops of said Z-bars, one flange

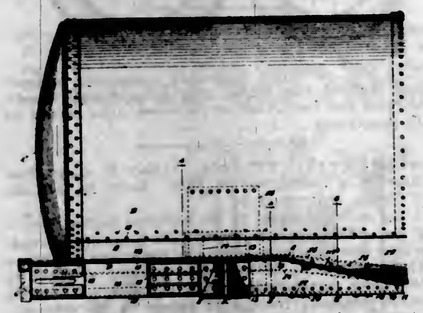
of said cross member being rigidly united with the outer flanges of the Z-bars and the other flange of said cross member being secured to the outer side of said fascia board.

1,397,675. JUMPER-SEAT. FREDERICK H. BUSKE, Toledo, Ohio. Filed May 21, 1921. Serial No. 471,396. 1 Claim. (Cl. 155—12.)



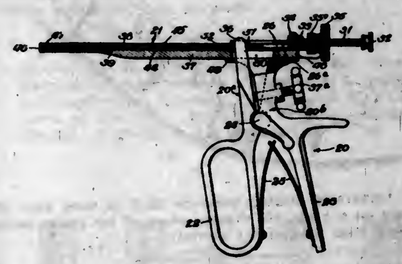
The combination with an automobile floor having an opening therein, of a cylinder projecting down through the floor opening and having an open top and a partially closed bottom, a ring flange carrying the cylinder at its upper end and secured to the top of the floor, a compression spring in the cylinder, a plunger in the cylinder resting on the spring, a pedestal standard removably mounted at its lower end in the cylinder in engagement with the plunger, a seat, a socket member centrally carried by the under side of the seat and removably and pivotally resting on the upper end of the standard, and a back hinged to the seat for folding thereover.

1,397,676. TANK-CAR CONSTRUCTION. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 10, 1921. Serial No. 451,410. 17 Claims. (Cl. 105—362.)



15. In a tank car, the combination with the underframe construction including draft and center sills; of a tank proper of generally cylindrical form; and anchor plates of convex cylindrical form secured to the tank proper at points above the center line of draft and to the draft sills inside of the bolster at points below the center line of draft.

1,397,677. TONSILLOTOME. HERBERT H. CARSTENS, Chicago, Ill., assignor to H. Carstens Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 10, 1921. Serial No. 436,038. 9 Claims. (Cl. 128—309.)



1. A tonsillotome comprising a pair of pivoted together handles, one handle member of which is provided with an actuating arm, and the other handle member with a socket member, a screw threaded stem stationarily secured to said socket member and projecting rearwardly therefrom, a knife actuating and locking nut, threaded on said stem, a frame member detachably secured in said socket member and having a fenestra at its forward end, a hemostat bar and a knife slidably mounted on said frame member, there being slots in said hemostat bar and knife in which said actuating arm operatively engages said hemostat bar and knife to reciprocate them, and said nut being adapted for actuating said knife independently of the hemostat bar.

1,397,678. TERRAZZO FLOORING. BRUNO O. A. DE PAOLI, Palisade, N. J. Filed Nov. 22, 1919. Serial No. 339,920. 5 Claims. (Cl. 72—63.)

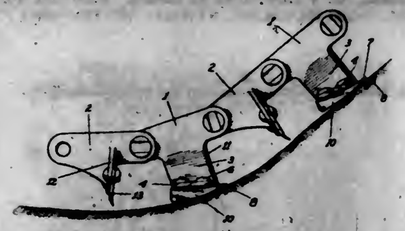


1. In a terrazzo floor structure, the combination with a terrazzo flooring composition and a base composition upon which the terrazzo flooring composition is spread, of a metal plate or strip vertically disposed and embedded in and anchored at its lower portion by said base composition, having its upper edge extending to and flush with the wearing surface of the terrazzo flooring composition, said strip or plate forming a retaining and protecting wall for the terrazzo flooring composition.

1,397,679. DIGGER-CHAIN FOR DITCH-DIGGING MACHINES. LESTER G. DUNLAP, Stockton, Calif. Filed Aug. 9, 1920. Serial No. 402,391. 3 Claims. (Cl. 37—23.)

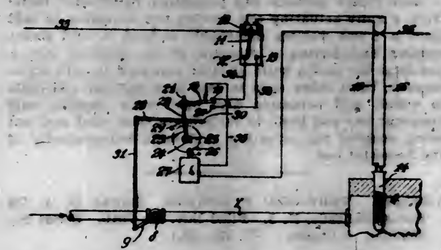
1. A digger chain for ditch digging machines comprising rigid arms projecting from the side plates of the links of the chain and flaring apart from front to rear, rigid and opposed flanges formed with said arms at the outer ter-

mination thereof, said flanges being positioned in a plane angularly disposed to the longitudinal plane of the links,



and transverse digging members fixed to each pair of flanges on a plate, the digging edges of the plates being farthest from the plane of the links.

1,397,680. AUTOMATIC VALVE-REGULATOR. LORENTZ B. EGAN and NIELS C. L. WILHJELM, Brooklyn, N. Y., assignors to Automatic Temperature Control Co., a Corporation of New York. Filed Nov. 29, 1919. Serial No. 341,365. 3 Claims. (Cl. 236—69.)



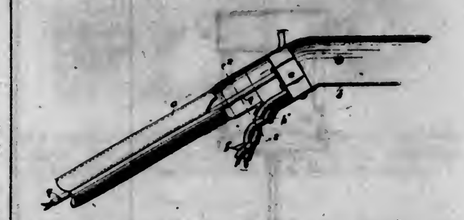
3. In combination, a furnace, a valve for controlling the fuel supply thereto, an electric circuit including a device responsive to temperature changes in said furnace, an element for operating the said valve, means for adjusting the extent of operation of said element and additional means for adjusting the throw of said valve, a motor for actuating said element, connections in said circuit between the said device and the motor for starting the latter when the temperature in the furnace varies from a predetermined constant, a switch for controlling the direction of current in said connections and means actuated by said motor for operating said switch to automatically break the said connections between the said device and the motor after the latter has operated the valve.

1,397,681. SHANK-STIFFENER. WALLACE H. FOSS, Cambridge, Mass., assignor to W. H. Foss Co. Inc., Boston, Mass., a Corporation of Massachusetts. Filed June 29, 1921. Serial No. 481,252. 5 Claims. (Cl. 36—76.)



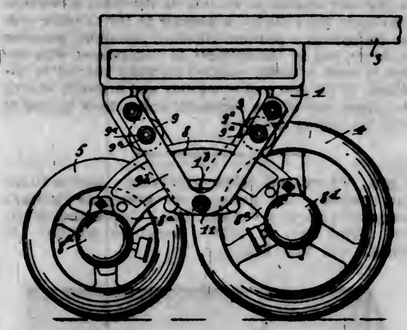
1. A shank stiffener comprising a flexible body portion of suitable material curved longitudinally and provided on its convex upper surface with a longitudinally extending groove, a stiff resilient longitudinally curved metal reinforce comprising a relatively wide web flat on its upper surface with a relatively narrow rib on its lower surface, and means for securing the reinforce to the body portion with the rib embedded in the groove and with the flat surface of the web conforming to the upper surface of the body portion.

1,397,682. HANDLE MEMBER. PHILIP A. GRIER and FRANK A. ROBERTSON, Cleveland, Ohio, assignors to The P. A. Geier Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 17, 1916. Serial No. 104,255. 6 Claims. (Cl. 15—257.)



1. A handle member, comprising two hollow symmetrical metallic shells, a reinforcing strip terminally bent to form an attaching portion secured interiorly of one of said shells, and assembling screws adapted to enter tapped openings therein and removably unite the symmetrical shells, substantially as set forth.

1,397,683. SOIL-PULVERIZER IMPLEMENT. RICHARD H. GAINSMITH, Bellevue, Ohio, assignor to The Ohio Cultivator Company, Bellevue, Ohio, a Corporation of Ohio. Filed Jan. 8, 1921. Serial No. 435,952. 15 Claims. (Cl. 55—77.)



1. A soil pulverizer implement, comprising a draft frame provided with guides, gang yokes slidable therein, and front and rear gangs of pulverizer disks carried by said gang yokes.

1,397,684. CYANID PROCESS. ALBERT W. HAHN, New York, N. Y. Filed Dec. 24, 1919. Serial No. 347,133. 3 Claims. (Cl. 75—185.)

1. As an improvement in the described method involving the addition of zinc dust to the pregnant solution, the step which comprises adding to the pregnant solution (before the zinc is added and in quantity sufficient to bring about the desired precipitation of precious metal without consuming free cyanid present in the solution), a chemical that will be acted upon by the zinc to liberate hydrogen and precipitate the precious metal.

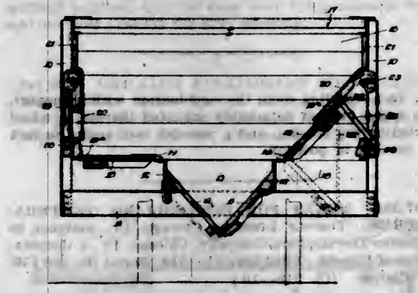
1,397,685. VALVE MECHANISM. HARRY W. HAGGOOD, Seattle, Wash. Filed June 11, 1921. Serial No. 476,660. 1 Claim. (Cl. (Cl. 188—179.)

A valve mechanism for a pneumatic spring cushion, having a closed compartment with an opening formed in the wall thereof, said valve mechanism comprising a resilient tubular valve member adapted to be superposed in concentric relation on said opening, a check valve adapted to close said tubular valve member and said opening, and re-



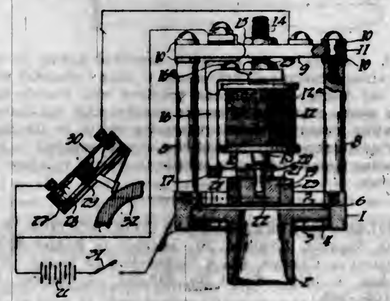
silient means adapted to normally hold said check valve in an open position, said resilient means being adapted to permit said check valve to close in response to the outward passage of an excess quantity of air through said tubular valve member and said opening.

1,397,686. CONVERTIBLE-CAR CONSTRUCTION. HARRY S. HART, Chicago, Ill., assignor to Rodger Ballast Car Company, Chicago, Ill., a Corporation of Maine. Filed Aug. 9, 1919. Serial No. 316,356. 10 Claims. (Cl. 105—243.)



1. In a car of the class described, a central longitudinally disposed stationary hopper portion, and doors hinged along the upper outer edges of said hopper portion arranged to form in one position a part of the horizontal floor of the car and span the distance between said hopper edges and the sides of the car and to be swung upwardly from the horizontal position to form a portion of a hopper side.

1,397,687. TRANSMITTER AND CIRCUITS THEREFOR. NEWMAN H. HOLLAND, West Orange, N. J., assignor to New Jersey Patent Company, West Orange, N. J., a Corporation of New Jersey. Filed Sept. 26, 1917. Serial No. 193,232. 25 Claims. (Cl. 179—100.1.)



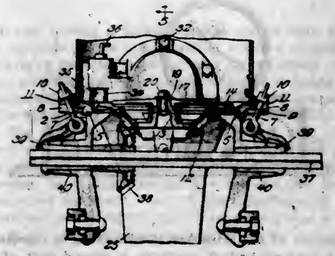
1. In a device of the character described, a circuit, granular conductive material subject to variations in resistance permanently included in said circuit and the sensitiveness of which in respect of such variations is affected by its temperature, and means acting momentarily upon the closing of the circuit to cause said material to reach its maximum sensitiveness in respect of such variations substantially as described.

1,397,688. FIFTH-WHEEL CONSTRUCTION. CLYDE C. KESSLER and FRED A. CLOCK, Canastota, N. Y., assignors to Watson Wagon Company, Canastota, N. Y., a Corporation of New York. Filed Mar. 23, 1918. Serial No. 224,215. 3 Claims. (Cl. 280—33.1.)



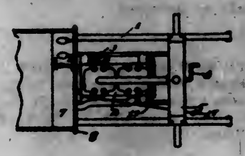
1. A fifth wheel comprising inner and outer sections, a locking member carried within the inner section and coacting with the outer section, to prevent separation of the sections in an axial direction, and means for operating the locking member comprising a rock shaft carried by the inner section and having means coacting with the locking member, the locking member extending lengthwise of the axis of the fifth wheel, and the rock shaft extending transversely of said axis, substantially as and for the purpose set forth.

1,397,689. PLANTING-MACHINE. ALVARO S. KROTZ, Janesville, Wis., assignor to The Janesville Machine Company, Janesville, Wis., a Corporation of Wisconsin. Filed Jan. 14, 1918. Serial No. 211,754. 22 Claims. (Cl. 221—125.)



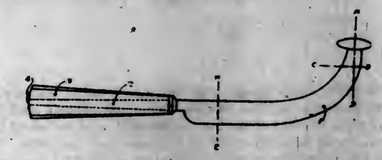
1. A planting machine having a seed dropping device comprising a receptacle for the seed, a base for said receptacle, supporting means for said base, seed dropping mechanism on said base, a stationary center post having means for removably retaining said mechanism and base in position, means outside of the receptacle to detachably retain said base in position on said supporting means, whereby said receptacle and base and mechanism can be readily lifted from the machine, and a bevel gear on said post to operate said mechanism.

1,397,690. AUXILIARY STARTER-CONTROL DEVICE. William Lawrench, Chicago, Ill. Filed Feb. 28, 1921. Serial No. 448,506. 7 Claims. (Cl. 74—89.)



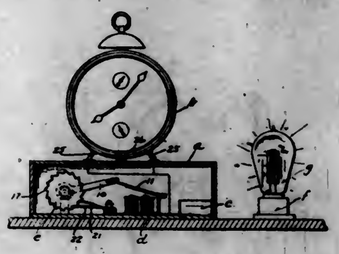
5. In a motor vehicle the combination with a starter control pedal, of pivotally mounted means for depressing the same, and a connection from said pivotally mounted means to the front of the motor vehicle.

1,397,691. PARTING-KNIFE. Ross Lawrence, Tupper Lake, N. Y. Filed Apr. 30, 1921. Serial No. 465,663. 2 Claims. (Cl. 30—9.)



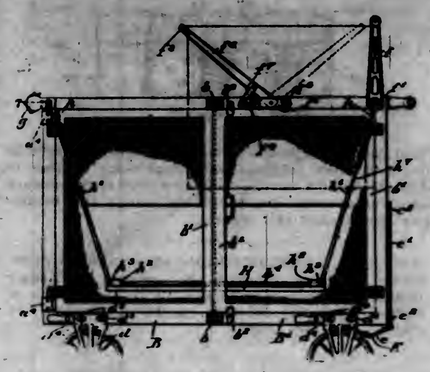
1. In a parting knife, a blade having an edged straight portion, a double-edged curved portion, and a guide formed integral with the end of the curved portion.

1,397,692. TIME-CONTROLLED ELECTRIC DEVICE. Charles F. Lehman, Minneapolis, Minn. Filed Nov. 1, 1920. Serial No. 420,904. 9 Claims. (Cl. 161—1.)



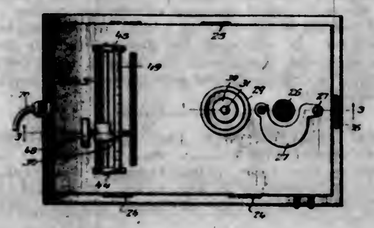
1. A device of the class described having in combination a pair of time-controlled contacts, a second pair of time-controlled contacts, a switch member, an electro-magnetic means for operating said switch member, an electrical circuit connected to said pairs of contacts and said switch and connected to said electro-magnetic means through a transformer, a second electrical circuit for controlling an electrical apparatus, said circuit also connected to said switch member, said switch member being constructed and arranged to be actuated to close the last mentioned electrical circuit when the first pair of time-controlled contacts are closed and to be so set by such actuation that it will be again actuated to open the last mentioned circuit when the second pair of time-controlled contacts are closed.

1,397,693. WHEELING-COOP. Charles D. Leonard and Henry J. Hansen, Rochester, N. Y. Filed Dec. 10, 1919. Serial No. 344,063. 6 Claims. (Cl. 280—36.)



1. In a wheeling coop, the combination with a support, of a wheel bracket detachably mounted thereon, a wheel carried by the bracket, and a movable cam acting to lock the bracket in position.

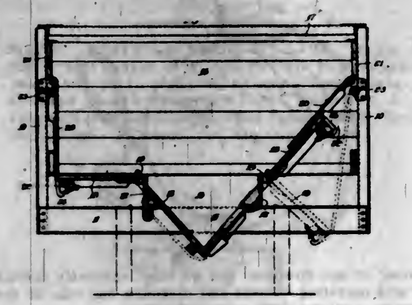
1,397,694. MEANS FOR CONTROLLING TEMPERATURES. Teodolf Lidbeck, Chicago, Ill., assignor to Electro-Thermophore Company, Chicago, Ill., a Corporation of Illinois. Filed May 21, 1919. Serial No. 298,759. 7 Claims. (Cl. 219—19.)



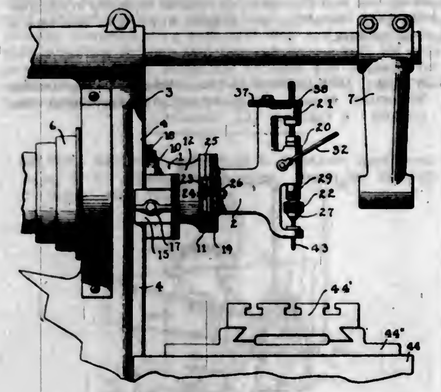
1. A device of the character described having in combination a casing; electric means to heat a chamber within the casing; an applicator provided with electric heating means connected in circuit relation with the chamber heating means; a thermo-responsive switch in the chamber to automatically control the current supplied to both heating means and means outside the casing to adjust the switch.

1,397,695. CONVERTIBLE-CAR CONSTRUCTION. John O. Neikirk, Lombard, Ill., assignor to Rodger Ballast Car Co., Chicago, Ill., a Corporation of Maine. Filed Aug. 9, 1919. Serial No. 316,811. 7 Claims. (Cl. 105—243.)

3. A car of the class described, including a body having a side wall door and a floor door which may be moved into an inclined position to form a hopper side wall, the side wall door being supported by the floor door in said inclined position, and the floor door being movable from said inclined position for side dumping.

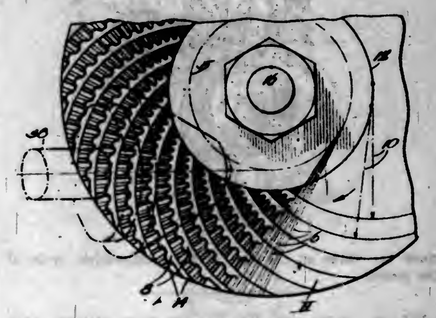


1,397,696. DRILLING ATTACHMENT FOR MILLING-MACHINES. John Victor Nelson, Maywood, Ill., assignor to Frans K. Krag, Chicago, Ill. Filed Mar. 26, 1920. Serial No. 369,081. 5 Claims. (Cl. 77—5.)



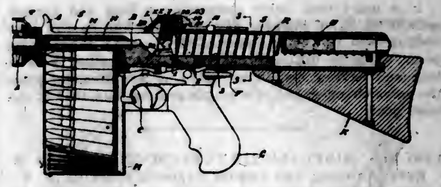
1. A tool holder for drills and the like, adapted for attachment to a milling machine, which attachment comprises a bracket, a pair of relatively adjustable jaws on said bracket constructed and arranged to clamp the vertical ways of said milling machine and to center the attachment horizontally, vertically acting threaded means for adjusting the height of said attachment on variously formed machines so as to secure said bracket in axial alinement with the spindle of the milling machine when said jaws are set, a head shiftably mounted on said bracket, a tool holder shiftably and rotatably mounted on said head at right angles to the axis of said spindle, and gearing adapted to connect said spindle with said tool holder.

1,397,697. HOB FOR GENERATING BEVEL-GEARS. Carl G. Olson, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a Corporation of Illinois. Filed Nov. 24, 1920. Serial No. 426,292. 7 Claims. (Cl. 29—103.)



1. A hob having the general configuration of a skew bevel gear, the hob teeth being separated, lengthwise, by cross flutes or gashes.

1,397,698. GUN. Oscar V. Payne, Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 20, 1919. Serial No. 346,406. 12 Claims. (Cl. 42—8.)

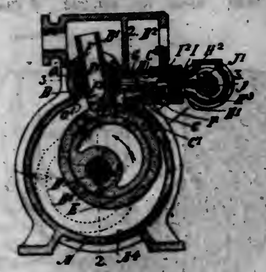


1. A gun having a firing chamber and a bolt chamber, a bolt movable in the bolt chamber along a straight path substantially parallel with the axis of the firing chamber, the bolt and bolt chamber having opposed recesses extending substantially across one side of the bolt, and a lock movable between a position in the recesses where it engages the bolt recess along its forward side and the chamber recess along its rearward side, in which position it locks the bolt closed, and a position substantially within one recess, in which position the bolt is free to be retracted along said path, the lock abutting faces of the bolt and receiver being substantially opposite along a line inclined to the line of breech pressure.

1,397,699. ROTARY PUMP. Gustav B. Petsche, Yonkers, N. Y. Filed Oct. 6, 1920. Serial No. 415,142. 6 Claims. (Cl. 230—30.)

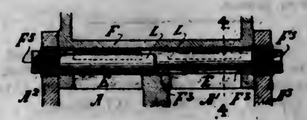
1. In combination with a rotary compressor having a rotary eccentric ring piston provided with an extension forming a partition between the admission and delivery ports, a valve seat in the delivery port, a delivery valve operating with said seat to open and close the port, a cylinder and piston for actuating said valve to open it, said cylinder being connected to the delivery side of the compressor and operating to open the valve when the pressure in the compressor attains a definite ratio to the pres-

sure in the receiver, and a cam operating synchronously with the driving shaft of the compressor and formed to



close the valve at the end of the compression cycle of the piston.

1,397,700. NON-RETURN VALVE FOR PUMPS AND SIMILAR USES. Gustav B. Petsche, Yonkers, N. Y. Filed Nov. 2, 1920. Serial No. 421,273. 3 Claims. (Cl. 252—114.)



1. A non-return valve comprising a long and narrow cylindrical valve chamber having a long and narrow port leading into it, and a plurality of long and narrow exit ports lying in different planes, in combination with a long and narrow cylindrical valve of less diameter than the valve chamber and of a length greater than that of the inlet port.

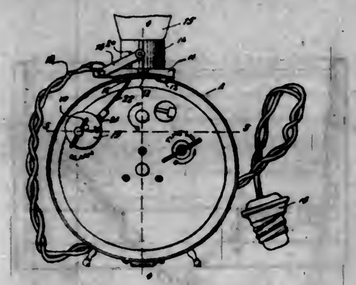
1,397,701. AIRPLANE-RIB CONSTRUCTION. John W. Rapp, Flushing, and Joseph Vanorio, Brooklyn, N. Y.; said Vanorio assignor to said Rapp. Filed Nov. 19, 1917. Serial No. 202,847. 6 Claims. (Cl. 244—31.)



1. A truss frame constituting a rib for airplane wings and air plane parts, made of wholly thin sheet metal channel members, the open sides of the channel shaped members forming the upper and lower chords of the truss frame being opposed to each other, in combination with like channel members forming the struts and ties of the said truss frame adapted to be fitted into and suitably secured to the upper and lower chords, said upper and lower chords being curved toward each other and secured to the front and back frame members of the wing structure.

1,397,702. ALARM-CLOCK ATTACHMENT. Carl L. Rasmussen, Butte, Mont. Filed July 30, 1920. Serial No. 400,019. 3 Claims. (Cl. 58—19.)

1. An alarm clock attachment comprising a base, means carried by the base for securing it to the clock, a lamp socket supported by the base, a switch including a fixed contact carried by the base, a movable contact pivoted on said base, an operating element associated with and actuated by the alarm winding stem incident to rotation

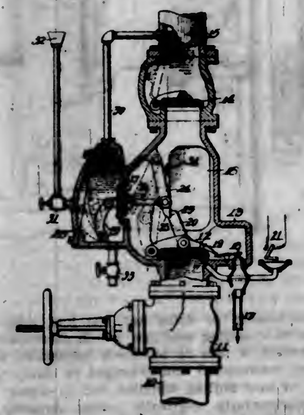


thereof in one direction, and an offset extremity carried by said operating element and overlying one edge of the movable contact for the purpose specified.

1,397,703. CONCENTRATION OF ORES. Hallet Eich Robbins, Washington, D. C., assignor to Metals Recovery Company, New York, N. Y., a Corporation of Maine. Filed Aug. 30, 1917. Serial No. 188,943. 4 Claims. (Cl. 82—85.)

1. In a process of concentrating ores containing a sulfid of copper, the operations of forming a freely flowing pulp of such ore reduced to a floatable size, adding a non-alkaline salt to said pulp without organic frothing agent, producing fine air bubbles in the pulp, causing the air bubbles so formed to collect at the surface of the pulp with sulfid of copper adhering thereto, and separating said bubbles and the adhering mineral from the remainder of the pulp containing the gangue which does not adhere to the bubbles.

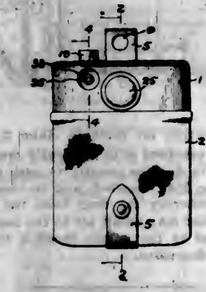
1,397,704. DRY-PIPE VALVE. George I. Rockwood, Worcester, Mass. Filed July 2, 1917. Serial No. 178,100. 6 Claims. (Cl. 169—21.)



2. In a fire extinguisher system, the combination of a supply pipe for water and an air pipe, of a valve for closing the supply pipe, a casing surrounding said valve and connecting said pipes, a valve for closing the air pipe, a toggle joint construction having two coöperating members connected with one of the valves, said two members engaging each other, independent means for preventing

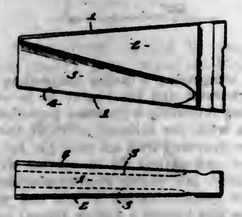
the toggle joint from passing into a position to entirely straighten out to full length, and means on the other side of the toggle joint whereby when the pressure in said air pipe is reduced the joint will be broken, whereby the two parts will become effectively disassociated.

1,397,705. PORTABLE ELECTRIC LAMP. Louis E. Shaw, East Orange, N. J., and Francis M. Rosenfeld, New York, N. Y., assignors, by mesne assignments, to Diamond Electric Specialties Corp., Newark, N. J., a Corporation of New Jersey. Filed Jan. 17, 1918. Serial No. 212,325. 7 Claims. (Cl. 240—8.5.)



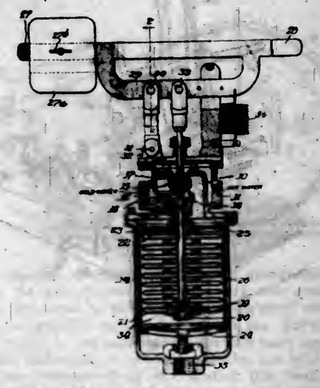
7. A portable electric lamp comprising a casing having opposed peripheral recesses, a lamp supported by the casing, a battery and a contact within the casing, a contact operating plunger extending through a wall of the casing, said plunger having a longitudinal slot and transverse recesses communicating with said slot, and a slidable detent extending through said slot and having both its ends projecting into the peripheral recesses and exposed for manual operation, and means on the detent to engage the transverse recesses in the plunger.

1,397,706. REAMER. Charles E. Skelton, East Onondaga, N. Y. Filed Mar. 28, 1919. Serial No. 285,735. 2 Claims. (Cl. 77—72.)



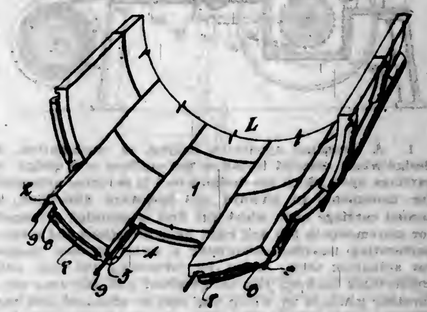
1. A reamer having a tapering side, and a tapering face meeting said side near the cutting edge of the reamer whereby the reamer is wider at one end than at the other and is thicker at its narrower end than at its wider end, said face being formed with a cylindrical groove intersecting the same to form the cutting edge, the groove decreasing in depth from its narrower and thicker end toward its wider and thinner end, the groove intersecting said face to form the cutting edge to the surface operated upon at the same angle at all points between the ends of the cutting edge, substantially as and for the purpose set forth.

1,397,707. THERMOSTATIC WATER-MIXER. Mervin O. Soubrier, Chicago, Ill., assignor to The Powers Regulator Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 28, 1917. Serial No. 209,365. 5 Claims. (Cl. 236—12.)



1. In a controller, the combination of a casing having inlets for hot and cold fluids, and an outlet for the tempered fluid, a valve for regulating the quantity of each fluid admitted, a stem for said valve, a fluid-pressure thermostat including a diaphragm, said stem being connected to the diaphragm, and mechanical means for selectively exerting pressure against said diaphragm in opposite directions, substantially as described.

1,397,708. WALL STRUCTURE. Augustus H. Spowers, Spokane, Wash. Filed June 7, 1920. Serial No. 386,988. 2 Claims. (Cl. 72—38.)

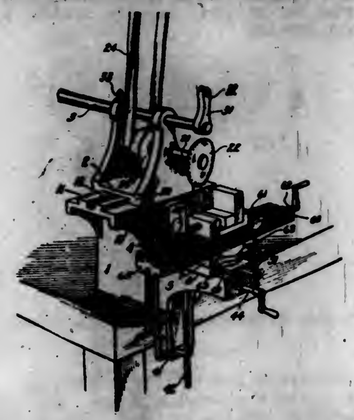


1. A lining structure composed of courses of longitudinally alined tiles, the tiles in each course having depending side flanges forming an upwardly extending continuous tongue and a continuous channel, and the tiles in adjacent courses having edge beads forming continuous depending tenons in said channel, and the ends of said tiles having oppositely projecting, transverse, interlocking beads and flanges and grooves located in the side flanges of adjoining tiles.

1,397,709. MILLING-MACHINE. Walter J. Tenny, Seattle, Wash. Filed Sept. 2, 1919. Serial No. 320,975. 5 Claims. (Cl. 90—15.)

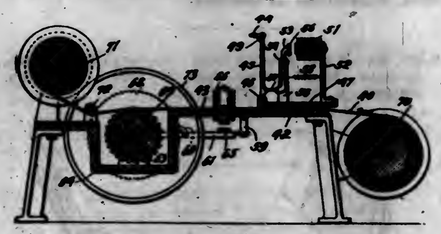
1. A milling machine comprising a frame, a milling head having a horizontal axis, a work holding table mounted for adjustment about a horizontal axis which is below

the axis of the milling head, said frame and milling head having horizontally extending engaging guideway mem-



bers located between said two axes whereby the milling head may be moved bodily in a horizontal plane parallel with said axes.

1,397,710. RECORDING APPARATUS. EUGÈNE VIOLLET, Limoges, France. Filed May 5, 1919. Serial No. 294,917. 15 Claims. (Cl. 164—34.)

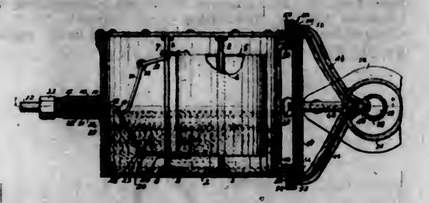


1. A recording apparatus having, in combination, a design-wheel adapted to follow the outlines of a design, a carriage upon which the design-wheel is mounted arranged for movements in forward and backward directions, a second carriage upon which the first is mounted arranged for movements in left and right hand directions and a tape perforating machine comprising a series of dies, means for actuating them, means for advancing the tape and connections between the design-wheel and the tape perforating machine by which the tape is advanced and the dies actuated according to the movements of the design wheel.

1,397,711. CARBURETER. JOHN E. ALPINE, Green Bay, Wis. Filed June 5, 1918. Serial No. 238,272. 5 Claims. (Cl. 261—70.)

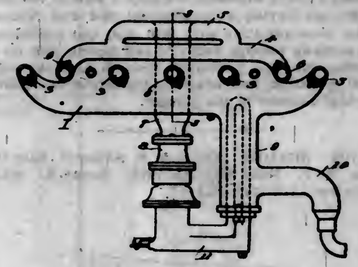
1. In a carbureter, the combination with a mixing chamber provided with a fuel inlet nozzle, of a float chamber connected at top and bottom with the nozzle, and provided with a fuel inlet, a valve controlling fuel deliveries to the float chamber through said inlet, connections for operating the valve from the float when the float chamber is in one position of adjustment, and other connections adapted to operate the valve from the float when the float chamber is inverted from its first mentioned position.

2. In a carbureter, the combination of a float chamber, a mixing chamber, a nozzle located substantially in the central horizontal plane of the float chamber, and adapted for fuel delivery to the mixing chamber, fuel supply connections leading from the top and bottom of the float chamber to the nozzle, a float within the float chamber, fuel supply connections for the float chamber, and means for utilizing the float to regulate the flow of fuel to the float chamber when the float has moved a predetermined distance toward either the top or bottom wall of said chamber.



4. The combination set forth in claim 3, in which the nozzle ducts are provided with vertically movable air inlet valves arranged to drop by gravity to open position at the upper side of the float chamber, and to closed position at the lower side, whereby the duct from the upper portion of the float chamber may admit air to the nozzle to atomize the fuel delivered to the nozzle through the lower duct, substantially as described.

1,397,712. MANIFOLD. HERBERT WILLIAM ALLEN, Sugar Pine, Calif. Filed July 24, 1919. Serial No. 312,955. 1 Claim. (Cl. 123—122.)

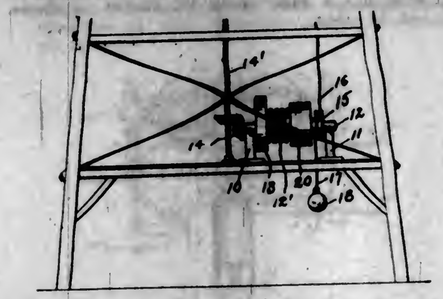


A manifold comprising a casing adapted to be arranged between a carbureter and the engine to be supplied with fuel, said casing including a chamber provided with inlets for connection with the exhaust ports of the engine and also a chamber provided with an inlet for connection with said carbureter, and outlets for connection with the cylinders of the engine, said casing further provided with a tubular extension communicating at one end with the first named chamber and having a hollow lateral outlet for discharging exhaust gases, and an inverted substantially U-shaped vaporising tube loosely mounted at its lower ends by a disk within the first named extension adapted for connection with the carbureter, and a washer fitting closely within the extension and supported on said disk.

1,397,713. SPEED-REGULATOR FOR WINDMILLS. ANTON G. H. ANDERSON, Springfield, Ill. Filed Oct. 8, 1918. Serial No. 257,859. 3 Claims. (Cl. 170—75.)

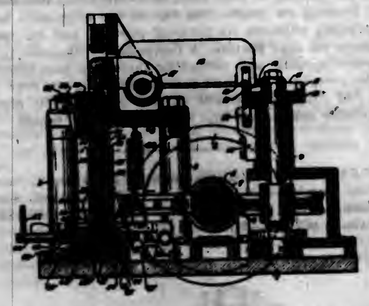
1. In a windmill speed regulator, a wind wheel driven shaft, a member driven therefrom and with respect to which the shaft is capable of limited independent motion,

means for connection with a windwheel for throwing it out of operation and means operable upon movement of the



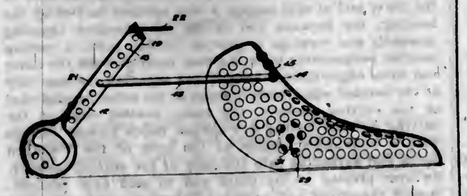
windwheel driven shaft with respect to the driven member, for rendering the windwheel throwing mechanism active.

1,397,714. TYPE-MAKING MACHINE. WALTER ARMSTRONG, Chicopee, Mass. Filed Apr. 14, 1921. Serial No. 461,355. 11 Claims. (Cl. 101—401.5.)



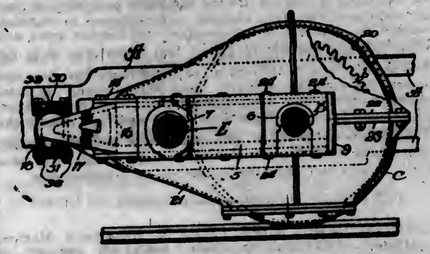
1. In a type forming machine, the combination with a holder for a blank, of a matrix cooperating with the blank, means for exerting direct pressure on the matrix and including a rockable member having teeth on its opposite edges, and means for rocking said member.

1,397,715. SHOE-FORM. LOUIS V. ARONSON, Newark, N. J. Filed June 11, 1921. Serial No. 476,753. 3 Claims. (Cl. 12—128.1.)



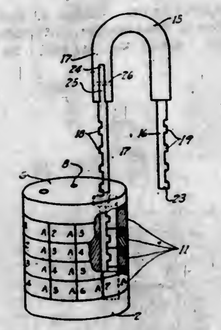
1. A ventilated shoe form comprising, in combination, a sheet metal foot member perforated throughout substantially its entire area, a skeleton link member, a heel member comprising a perforated channel-like portion into the perforations of which the ends of the link member are adapted to take to secure said parts in desired adjusted relation, and a hollow perforated substantially spherical extremity secured thereto.

1,397,716. GEARED LOCOMOTIVE. ELMER F. BACKER, Davenport, Iowa, assignor to Davenport Locomotive Works, Davenport, Iowa, a Corporation of Iowa. Filed July 12, 1920. Serial No. 395,469. 9 Claims. (Cl. 105—108.)



1. A geared locomotive comprising side-frames, drive-wheels, the axle thereof, a crank-shaft, and gearing connecting the same to said axle, of an integral supporting-frame the parallel portions of which are movable vertically relative to the said side-frames and have bearings for said axle and shaft, a journaling device for said supporting-frame intersected by the medial line between said side frames on the side of the crank-shaft opposite said axle, bearings for said device, and a housing for said gearing associated with said supporting-frame.

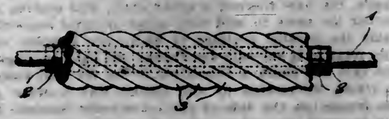
1,397,717. PERMUTATION PADLOCK. EDWARD W. BELLAMY, Torrington, Conn. Filed Jan. 29, 1920. Serial No. 354,917. 2 Claims. (Cl. 70—113.)



1. A permutation padlock comprising a circular base; a cylindrical core centrally extended from the base; two channels cut along the core, upon diametrically opposite sides thereof and perpendicularly to the base, said channels being extended into the base in the form of enlarged cups; a central, threaded bore extended down into the top of said core; a circular cap, corresponding to the base; a threaded bolt centrally extended from the cap, and adapted to screw into the threaded bore of the core; two shackle holes pierced through said cap, upon diametrically opposite sides thereof, and adapted to register with the channels cut along said core, one of said holes being countersunk at its under side; a set screw mounted through the cap and seated in the core as means for locking the cap in place; a U-shaped shackle, having its arms adapted to enter the shackle holes formed through the cap and to travel the channels formed along the core, the lower end of one arm having an extended foot adapted to engage the countersunk shackle hole in the cap, as means for linking the shackle to the lock, and the lower ends of both arms

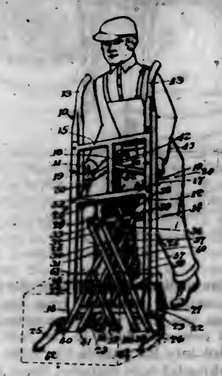
being adapted to seat into the cups formed in the base as aforesaid; a plurality of outstanding lock-lugs formed along each shackle arm; a plurality of shifter, interchangeable permutation rings, rotatively mounted over the core, so as to fill the space between the cap and base; an annular channel cut around the inner periphery of each permutation ring, each channel being adapted to slidingly engage the opposite lock-lugs upon the shackle arms and thus lock the shackle in place; two transverse slots cut across the inner periphery of each permutation ring and across its annular channel, upon diametrically opposite sides, the respective slots of the several rings being adapted to register as the rings are rotated and thus release the lock-lugs of the shackle; and guide lines and permutation characters formed upon the outer faces of the cap, base and rings to facilitate the formation of combinations.

1,397,718. WIRE ROPE. JOHN N. BELLWALD, Mexico, Mexico. Filed Mar. 18, 1920. Serial No. 366,917. 5 Claims. (Cl. 28—5.)



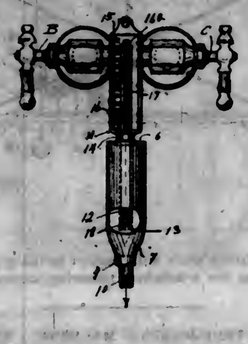
4. A wire rope comprising a flexible core composed of a plurality of axially alined separate independently movable elements arranged in abutting relationship, and a plurality of strands of wire wound in a helical manner around the core.

1,397,719. HAND-TRUCK. EDGAR J. BRYAN, Riverside, Calif., assignor to Fred Stebler, Riverside, Calif. Filed Jan. 27, 1917. Serial No. 144,982. 29 Claims. (Cl. 214—65.5.)



1. A hand truck comprising a truck frame, clamping members adapted to be moved toward and away from one another, means bodily adjustably mounted in front of the frame and spaced therefrom to support and move the clamping members toward and away from one another, spring means operatively associated with the clamping members, and means coöperating with the first named operating means to move the clamping members into clamping position whereby they will support the weight of a load against the action of the spring means and automatically move out of clamping position when the weight of the load is removed from the clamping members.

1,397,720. THERMOMETER ATTACHMENT FOR FAUCETS. ARCHIE S. CAMPBELL, St. Johnsbury, Vt. Filed May 1, 1920. Serial No. 378,284. 2 Claims. (Cl. 73—184.)



1. As an article of manufacture, an attachment for faucets comprising a receptacle including a top and bottom, the bottom of said receptacle extending downwardly and forming an outlet, the top of the receptacle having an opening adjacent its forward portion, and an opening adjacent its rear portion, a thermometer disposed in said forward opening and extending interiorly and exteriorly of the receptacle, an inlet pipe disposed in the rear opening, and connecting means carried by said inlet pipe for detachably connecting said receptacle to the faucet.

1,397,721. HAIR-CLIPPER. AUGUST J. CARLSON, Tacoma, Wash., assignor of one-half to Andrew Niland, Seattle, Wash. Filed Mar. 3, 1919. Serial No. 280,485. 1 Claim. (Cl. 30—1.)

Apparatus of the class described comprising a motor embodying a casing having an enlarged upper end and a cylindrical bearing at its lower end, a housing secured to the lower end of said casing, a base member carried by the housing, the forward end of the base member tapering upwardly and serrated to provide cutting teeth, a cutting member reciprocable upon the base member with the inner and outer edges thereof beveled and engaging the base only at the beveled edges, teeth formed at the outer beveled edge of the cutting member, the inner beveled edge of the cutting member having a V-shaped notch formed therein with a rectangular socket at the apex of the V-shaped notch and extending into the body of the cutting member, an arm pivoted at its inner end to said base member, spaced therefrom and having a tapering end terminating in a rectangular projection entering the V-shaped and rectangular socket notch and of less dimensions than said notch, said arm having a longitudinal slot therein adjacent the swinging end thereof, a main shaft extending into the cylindrical bearing of the casing, and an eccentric shaft carried by the main shaft extending into the arm slot for shifting the arm, the sides of the V-shaped notch adapted to be engaged by the sides of the pointed end of the arm to limit reciprocable movements of the blade.

1,397,722. IMPLEMENT FOR MAKING IRRIGATING-CHANNELS. EUGENE F. CHRISTMAN, San Dimas, Calif., assignor of one-half to Will G. Fields, San Dimas, Calif. Filed Nov. 24, 1920. Serial No. 425,290. 9 Claims. (Cl. 97—12.)

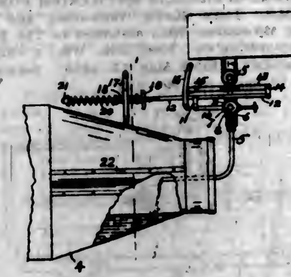


4. In an implement of the character described, the combination with the beam of a cultivator, of arms pivotally connected with said beam, other arms pivoted to the first arms, operating members connected with the second arms and extending rearwardly beyond the rear ends of the arms, channel-engaging members carried by the first arms, means to connect the first arms to the operating members at will, and a channel-forming blade carried by the second arms.

1,397,723. FOOD COMPOUND. BRUCE E. CLARKE, Kansas City, Mo. Filed Jan. 15, 1921. Serial No. 437,586. 3 Claims. (Cl. 99—11.)

1. A food compound comprising milk, malt and vegetable fat, emulsified within a range of temperature, the minimum being that at which the enzyme become active and the maximum less than that which renders them inert.

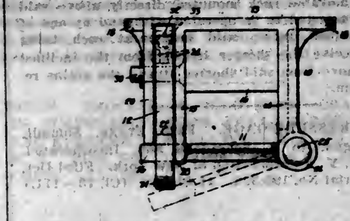
1,397,724. ATTACHMENT FOR SULFUR-BURNERS. JOSEPH R. CRANDON, Portland, Me., assignor to J. R. Crandon Company, Portland, Me., a Corporation of Maine. Filed Jan. 9, 1920. Serial No. 350,484. 8 Claims. (Cl. 23—1.)



1. In a rotary sulfur burner for burning melted sulfur, the combination of a feed pipe for feeding the melted sulfur thereto, a valve for said pipe and means actuated by the rotating burner mechanism for intermittently opening said valve wider than its normal opening to clear possible obstructions.

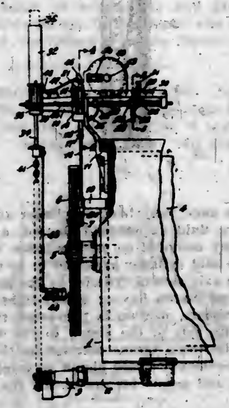
1,397,725. STAKE-POCKET. JOHN L. DAHL, Teaneck, N. J. Filed Jan. 18, 1921. Serial No. 438,101. 5 Claims. (Cl. 105—383.)

1. In a stake pocket, the combination with a receptacle and a gate movable toward the receptacle into closed position, of a latch engageable over a portion of the gate to hold it in closed position, said latch being pivoted on a horizontal pivot to the receptacle and having a tail piece



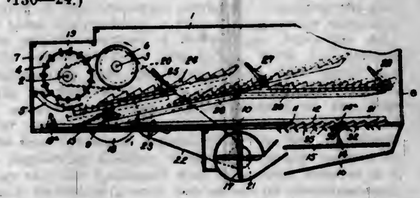
projecting rearward from the pivot, said tail piece serving to control the movement of the latch around its pivot.

1,397,726. WASHER-TIMING DEVICE. JAMES E. DANN, Brooklyn, N. Y., assignor to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Filed Jan. 25, 1917, Serial No. 144,426. Renewed Jan. 28, 1921. Serial No. 440,804. 20 Claims. (Cl. 116—73.)



13. A washing machine provided with an operating member and a drain valve, a normally concealed signal device visible at a distance from the machine when exposed thereon, means actuated by said operating member and adapted at the conclusion of the washing operation to open said valve and expose said signal device to indicate to the operator the conclusion of the washing operation, and means actuated simultaneously with said signal device for indicating to the operator the character of the next washing operation to be performed.

1,397,727. THRESHING-MACHINE. AMÉDÉE DION and BRUNO DION, Ste-Thérèse de Blainville, Quebec, Canada. Filed May 10, 1920. Serial No. 380,185. 3 Claims. (Cl. 130—24.)



2. In a threshing machine, the combination of a frame; a beater; two inclined and overlapping straw racks

mounted in said frame for reciprocatory movement; a chaffer mounted at the discharge side of said frame; and a horizontal movable rack mounted directly above said chaffer and connected to be operated with and by one of said two inclined racks, said horizontal rack being adapted to receive the shorter straws from the inclined racks and remove from said shorter straws the grains remaining therein.

1,397,728. PRESSURE-GAGE. FRED EVANS, Summit, N. J., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 8, 1917. Serial No. 195,322. 11 Claims. (Cl. 73—111.)



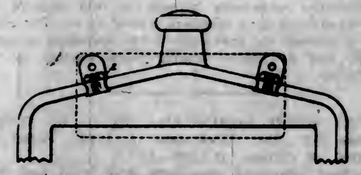
1. A pressure gage comprising a cylinder adapted to receive a pressure fluid at one end thereof, an indicating member rotatably mounted on said cylinder, a spring-resisted piston in said cylinder arranged to be moved longitudinally to the axis of said cylinder by the pressure fluid, said cylinder and piston having a leak-tight connection, whereby the pressure medium is prevented from passing from the pressure side of the piston to the opposite side thereof, means having a torque reaction on the piston for utilizing the movement of said piston to rotate said indicating member, and means for preventing the rotation of said piston.

1,397,729. GARMENT-POCKET. JACOB MORRIS FRANKLIN, Brooklyn, N. Y., assignor of one-third to Emanuel Deitz and one-third to Abraham Deitz, New York, N. Y. Filed Sept. 12, 1919. Serial No. 323,294. 1 Claim. (Cl. 2—15.)



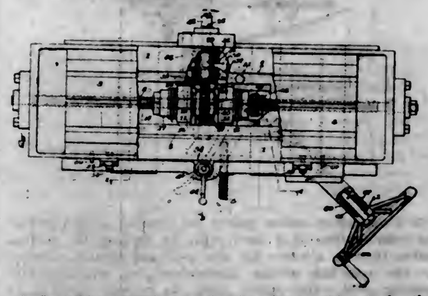
A pocket construction for a garment having a slit formed therein, comprising inner and outer walls attached at margins thereof to the garment adjacent the slit therein, a partition wall having its margin attached to said inner and outer walls, said partition wall being disposed intermediate said inner and outer walls and forming therewith inner and outer pocket compartments, a flap on the inner wall adapted to extend over the edge of the intermediate wall at the inside of the outer wall and also adapted to extend over the exposed edge of the outer wall to the outside thereof so as to occupy either an inner or an outer position as may be desired, the margin of the intermediate wall having a button-hole therein, a button on the inner wall coöperative with said button-hole to close the inner compartment, and a button on the outside of the outer pocket wall, the margin of said flap being provided with a button-hole coöperative with the one or the other of said buttons according to whether the flap is in its inner or its outer position and whereby in either case double security will be provided for the inner pocket compartment.

1,397,730. LICENSE-TAG HOLDER. JOHN FRIND, Peoria, Ill. Filed Dec. 8, 1919. Serial No. 343,247. 2 Claims. (Cl. 40—125.)



1. In a license tag holder the combination of a pressed sheet metal body portion provided with a rear hook for engagement with the rear edge of the shell of a radiator and an up-turned license tag carrying portion, a clamping member coöperating with the forward part of the body portion and for engaging with the shell of the radiator, and a clamping bolt passing through the body portion and the clamping member and at an angle to both whereby the clamping member may be drawn to clamping position.

1,397,731. TABLE-OPERATING MECHANISM FOR MACHINE-TOOLS. JOHN GOETZ, Wauwatosa, and FRED A. PARSONS, Milwaukee, Wis., assignors to The Kempsmith Manufacturing Co., West Allis, Wis., a Corporation of Wisconsin. Filed May 17, 1919. Serial No. 297,921. 9 Claims. (Cl. 90—21.)



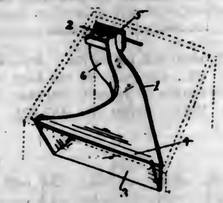
1. In table operating mechanism for machine tools, the combination with the table and a support therefor, of a non-rotatable translating screw fastened to the table, a non-translating rotatable nut mounted on said support in engagement with the screw, a worm gear fixed on the nut, a worm mounted in a fixed bearing on the table support in constant engagement with the worm gear, a rotary power driving member, and transmission mechanism comprising a clutch for operatively connecting and disconnecting the worm and driving member.

1,397,732. SURGICAL INSTRUMENT. AARRIEL E. GOODLOE, Chattanooga, Tenn. Filed Apr. 13, 1920. Serial No. 373,520. 17 Claims. (Cl. 128—7.)



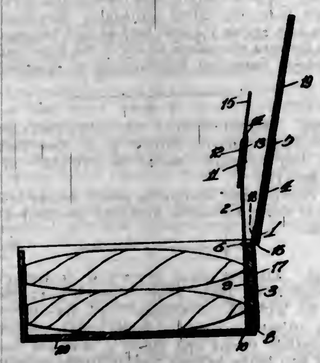
1. In a surgical instrument of the class described, a barrel having a handle upon its inner end, a finger piece slidable upon said barrel within reach of the fingers of a person's hand gripping said handle, a jaw at the outer end of said barrel and coöperating with the latter to grasp objects, a friction controlled sliding piece carried by the barrel and having said jaw hinged thereto, and a controlling rod for swinging said jaw connected to said finger piece whereby, when the finger piece is slid forwardly the jaw is caused to first swing upwardly and then move forwardly relative to the barrel.

1,397,733. RESONATOR. JOHN HEARSOG, Saginaw, Mich., assignor to Sonora Phonograph Company, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 26, 1919. Serial No. 279,367. 1 Claim. (Cl. 181—27.)



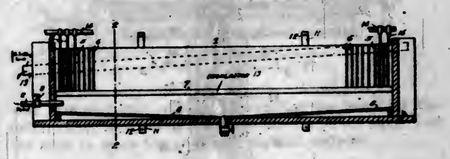
A horn for sound-reproducing instruments comprising a tapered body and an elongated neck, each of the side walls and top and bottom walls of said body and neck formed of a single piece of material bent to the contour of said body, the neck portion of each of said walls twisted and turned upwardly, said walls forming a sound-carrying channel in which successive cross sections are in slightly rotated positions with relation to each other.

1,397,734. COMBINED TICKET-HOLDER AND LID-SUSTAINER. EDWIN W. HOELSCHER, St. Louis, Mo. Filed Apr. 22, 1920. Serial No. 375,727. 4 Claims. (Cl. 217—61.)



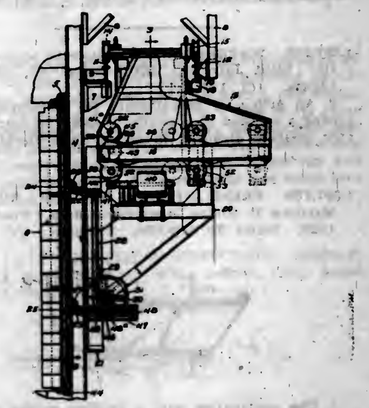
1. A device for sustaining the lid of a box in an open position, comprising a member having a loop formed intermediate of its ends, and a second member coöperable with said loop of said first mentioned member for preventing said looped member from becoming disengaged from the box lid, said second member bearing a pair of lapping portions for the introduction of a price card.

1,397,735. PROCESS OF RECOVERING COAL, HELD IN SUSPENSION, FROM COAL-BEARING WATER AND STREAMS. CHARLES EDWIN HOLLAND, Brooklyn, N. Y. Filed Nov. 13, 1920. Serial No. 423,810. 5 Claims. (Cl. 204—1.)



1. The process of recovering coal from water or other liquid which consists in coagulating and precipitating the coal and organic matter in the liquid, and separating the coagulum and precipitate from the liquid.

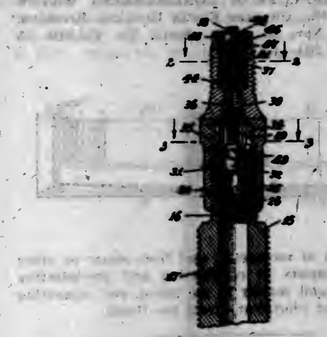
1,397,736. COKE-OVEN-DOOR MACHINE. JOHN KRIPPNER, Chicago, Ill., assignor to American Coke & Chemical Company, Chicago, Ill., a Corporation of Maine. Filed Feb. 16, 1920. Serial No. 359,121. 10 Claims. (Cl. 254—84.)



1. The combination with a bench of coke ovens having a plurality of door openings in one side and a door for each opening, of a trackway extending along the upper portion of the bench adjacent to said openings, a carriage traveling on said trackway, means for propelling the carriage along the trackway, a pair of transversely extending tracks on the carriage, a downwardly depending door carrier suspended from said tracks, racks and pinions in conjunction with the carriage and door carrier for moving the door carrier back and forth on said tracks, a door supporting member rigidly secured to the door carrier, another door supporting member movably mounted in the door carrier at a point below the first mentioned door supporting member, a spring normally tending to project the last mentioned door supporting member to a position limited by a stop, and means for simultaneously raising and lowering both of the door supporting members, the tracks aforesaid having their inner end portions curved substantially on the arc of a circle drawn about the

lower end of the door openings as a center, and the rear portions of said tracks extending upwardly, substantially as described.

1,397,737. VALVE. Irvo Littman, New York, N. Y., assignor to Littman Loxair Valve Corporation, a Corporation of Delaware. Filed July 12, 1920. Serial No. 395,725. 12 Claims. (Cl. 152—12.)



1. A valve structure having two spaced valve-seats, constituting the ends of a valve chamber between them, and two valve members for the respective seats connected together for bodily movement as one within the valve chamber and between the valve-seats, and for movement of separation or approach relatively to each other.

1,397,738. WATERPROOFING. Arnold Mohn, Chicago, Ill. Filed July 24, 1920. Serial No. 398,687. 3 Claims. (Cl. 134—11.)

2. An article of manufacture for waterproofing comprising a solution of a relatively small amount of aluminum stearate dissolved in carbon tetrachlorid.

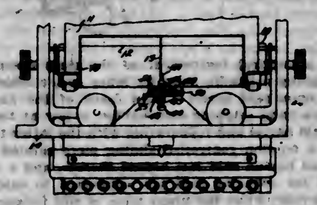
1,397,739. FRESH-AIR VALVE FOR BUILDINGS. Malcolm B. Moyer, Montevideo, Minn. Filed June 14, 1920. Serial No. 388,964. 2 Claims. (Cl. 98—27.)



1. The combination with a building having a foul air outlet and provided with fresh air inlet passages in its sides; of a self-closing damper in each of said inlet passages movable inwardly to open position under the action of incoming air currents, said damper being movable farther inwardly temporarily under stronger currents, and a wall in the passage coacting with said damper in its temporary position for preventing the entrance of air, said damper being self-closable outwardly when the air is calm and also outwardly closable under the action of air currents seeking egress, whereby to compel such currents to travel through said foul air outlet.

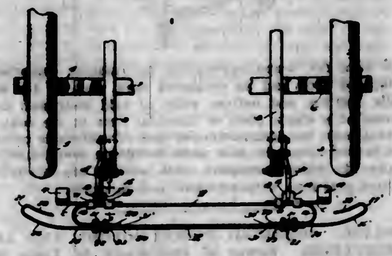
1,397,740. LINE-MAKING ATTACHMENT FOR TYPEWRITING-MACHINES. Ricardo Guzzanno Pimenta, Valparaiso, Chile. Filed Mar. 27, 1920. Serial No. 369,397. 4 Claims. (Cl. 197—113.)

1. A line-making attachment for typewriting machines comprising a supporting member having a portion adapted to be attached to the stationary type bar guide of a typewriting machine, and a channel shaped portion extending transversely of the machine, a slide mounted on the supporting member through the medium of said channel shaped portion and conforming thereto, means for adjusting the slide longitudinally of the transverse portion parallel to the platen of the machine and securing it in adjusted position, a writing implement holder carried by



and movable with the guide, a stylus-like implement carried by the holder and extending in juxtaposition to the platen and a spring yieldably pressing the writing implement outwardly to normally maintain the same out of contact with the work and adapted to permit movement thereof manually into engagement with the work, substantially in the manner as and for the purposes specified.

1,397,741. AUTOMOBILE-BUMPER. Frank R. Procunier, Chicago, Ill., assignor of one-half to Louis N. Turner and one-fourth to Jesse C. Stryker, Chicago, Ill. Filed Jan. 14, 1921. Serial No. 437,331. 11 Claims. (Cl. 293—55:)



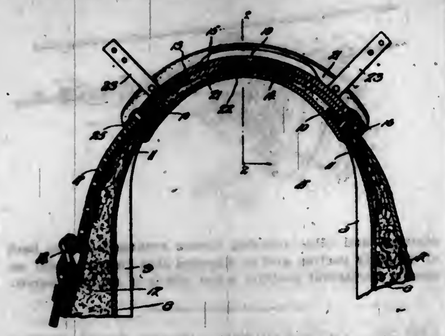
4. In combination with a pair of supporting brackets, a bumper secured thereto, and comprising forward and rearward bars, the latter adjustably connected to the brackets and having its ends bent around through 180° to provide forward extensions to which the front bumper bar is adjustably connected, substantially as described.

1,397,742. CHEWING-GUM OR CHEWING-GUM SUBSTITUTES. Adolph Philip Rapp, New York, N. Y. Filed July 12, 1919. Serial No. 310,453. 16 Claims. (Cl. 99—11.)

1. A chewing gum containing plastic rubber of different degrees of depolymerization uniformly distributed through said gum.

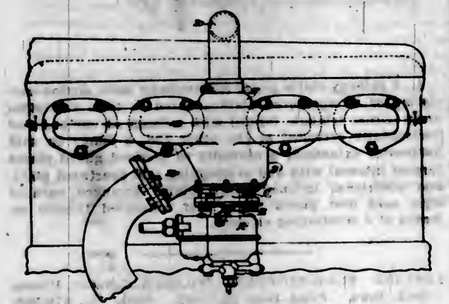
1,397,743. ADJUSTABLE OPEN-TOP HORSE-COLLAR. Charles Ross, Blair, Nebr. Filed Oct. 12, 1920. Serial No. 416,548. 3 Claims. (Cl. 54—19.)

1. An adjustable open top horse collar, comprising integral flexible throat and sides, a laminate connecting plate of firm heavy harness leather stitched together flatwise attached to the top of one collar side to bend flatwise to form a substantially rigid arch across the open top and to overlap the opposite collar side, narrow laminæ added to form an upstanding ledge on the front edge of said connecting plate, a long billet on the free end toward



the back edge of said connecting plate, and a buckle on the outside of the after-wale of the adjacent collar side to engage said billet.

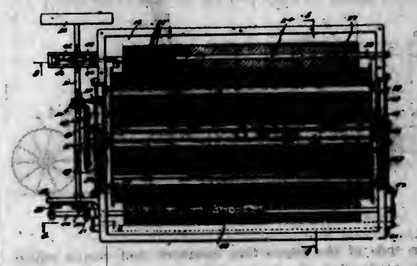
1,397,744. CARBURETING AIR FOR INTERNAL-COMBUSTION ENGINES. Joseph M. Schutz, Chicago, Ill., assignor to Schutz Hawley Company, Chicago, Ill., a Corporation of Illinois. Filed May 6, 1918. Serial No. 232,765. 1 Claim. (Cl. 48—180.)



The improvement herein described comprising an internal combustion engine, in combination with an intake passage leading to the engine and an exhaust passage leading from the engine, means at the far end of the intake passage for supplying a stream of mixture of air and liquid fuel under the suction of the engine; such intake passage having an opening intermediate its ends, and constructed to deflect or turn the stream of mixture from its course at that point, whereby to eject unvaporized particles of liquid and dust, a closed chamber surrounding said opening in the intake passage, in position to receive the particles ejected from the stream of mixture but presenting walls so far removed from the flowing stream of mixture as to be wholly out of contact therewith, and a heating jacket surrounding said walls of the chamber and connected with said exhaust passage, substantially as described.

1,397,745. PLUME-WASHING MACHINE. Iacopo Testa, Brooklyn, N. Y. Filed Feb. 11, 1920. Serial No. 357,881. 4 Claims. (Cl. 141—1.)

2. A device as set forth in claim 2 in which the means for rotating the carrier includes a power shaft and a power transmitting member splined thereto and the means for rotating and reciprocating the tool includes a slide connected to the tool, a gear member on the power shaft, a gear member carried by the tool and adapted to co-act



with said first gear member for rotating the tool from the power shaft, and connections between the power shaft and the slide to move the slide and the tool endwise.

1,397,746. METAL FRAME CONSTRUCTION. William M. Thomas, Los Angeles, Calif. Filed Nov. 4, 1913. Serial No. 799,147. Renewed Apr. 19, 1920. Serial No. 375,161. 1 Claim. (Cl. 72—114.)



The combination with a bar and a rod extending at an angle to said bar, of a joint member comprising an angular plate having legs and provided with a perforation in one of its legs and provided with a hole in its other leg, the leg having the hole extending substantially parallel to the bar and said brace rod passing through said hole and being bent over the end of the other leg, and said bar passing through the perforation and being bent toward the parallel leg.

1,397,747. VEHICLE CONSTRUCTION. Henry F. Towner, Santa Ana, Calif. Filed Jan. 10, 1921. Serial No. 436,136. 4 Claims. (Cl. 280—96.1.)



1. In vehicle construction, the combination with an axle having a knuckle-pivot bearing, of an axle extension provided with a bore to register with the bore of the bearing, and having a curved portion fitting one side of the knuckle-pivot bearing, fastening means passing through the registering bores, and a knuckle-pivot bearing on the extension adapted to receive the pivot of a steering knuckle.

1,397,748. DEPTH-REGULATING DRAFT DEVICE FOR GROUND-WORKING TOOLS. Henry F. Towner, Santa Ana, Calif. Filed Apr. 19, 1921. Serial No. 462,525. 5 Claims. (Cl. 97—50.)

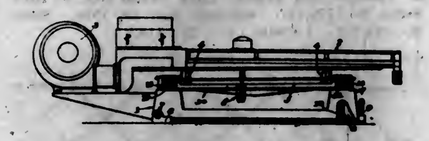
1. In a depth-regulating draft device, supporting members adapted at their forward ends for pivoted connection with the frame of a tractor, draft arms adapted at their forward ends for pivotal connection with the tractor

frame, a frame connected with said arms, ground-working tools carried by the frame, a caster wheel to support the



rear ends of the supporting members, and means adjustably connecting the tool-carrying frame to the supporting members.

1,397,749. CONCENTRATOR. ALVA W. TYLER, Los Angeles, Calif., assignor, by mesne assignments, to Walter Young, Los Angeles, Calif. Filed Dec. 29, 1917. Serial No. 209,404. 34 Claims. (Cl. 83—88.)



1. In a dry ore concentrator, a table having a perforated ore-supporting surface, means to blow air upwardly through the perforations, and means to move a portion of the table in an elliptical path.

1,397,750. BELT CONNECTION. WILLIAM WENDERHOLD and CHARLES UEBELMESSER, New York, N. Y., assignors to Cru Patents Corporation, a Corporation of New York. Filed Dec. 13, 1917. Serial No. 206,882. 2 Claims. (Cl. 24—37.)



2. A belt coupling comprising a pair of convex members, a central block member of concave contour to form a snug fit with said convex members and adapted to receive the belt ends between the same and said convex members, said central block member having a concave face corresponding to the convexity of a pulley with which said block member coöperates, and a screw passing through said members and said belt ends to clamp the same together.

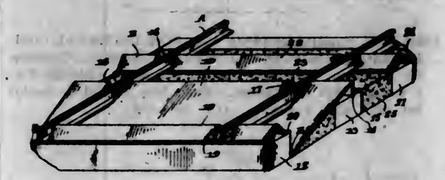
1,397,751. ROCK OR DIRT DRAG. JOHN L. ALLINGTON, Joplin, Mo., assignor of one-third to Oscar M. Bilhars, Baxter Springs, Kans., and one-third to Frederick H. Gartung, Miami, Okla. Filed Nov. 11, 1920. Serial No. 423,297. 4 Claims. (Cl. 37—19.)

1. In a device of the character described a drag, comprising a curved body portion, a yoke secured thereto, means for securing a cable to the free end of the yoke, said end being arranged at an angle, whereby power applied will maintain the body portion in a substantially vertical



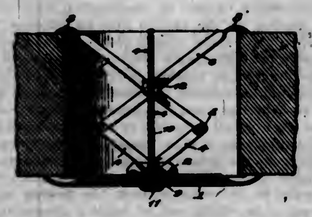
position, and cable securing means arranged on the back of the body portion and so disposed that the drag will assume a horizontal position when power is applied thereto.

1,397,752. CATTLE-GUARD. GEORGE HENRY BISHOP, Calgary, Alberta, Canada. Filed Jan. 3, 1921. Serial No. 434,628. 3 Claims. (Cl. 256—14.)



1. A railway cattle guard comprising a main section consisting of an apertured plate adapted to form two sides of an obtuse triangle formed with a flange at one end and horizontally extended at the other end, a flange on said horizontal extension, a plurality of inclined guard plates formed integral with and overlapping said apertured plate, and additional inclined guard plates arranged parallel with said first guard plates and connected thereto by means of a reinforcing element.

1,397,753. FLUE-STOPPER. WILBUR R. CARROLL, Bloomfield, Iowa. Filed June 22, 1921. Serial No. 479,508. 13 Claims. (Cl. 126—319.)



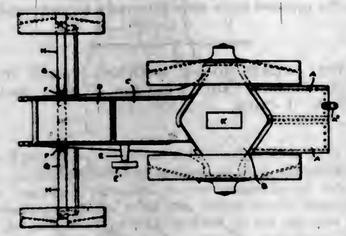
1. In a flue-stopper, the combination with a cover-plate for the flue opening in a wall, of diverging links hinged at one end to the cover-plate, crossed levers pivoted together at their intersection and hinged at their inner ends to the free ends of said links respectively and adapted to engage the wall in which the flue opening is formed to secure the flue-stopper in place, and means for actuating the jointed links and levers to engage the levers with said wall to hold the cover-plate in place with relation to the flue opening.

1,397,754. DIRIGIBLE HEADLIGHT. GEORGE COX, Black Earth, Wis. Filed June 12, 1919. Serial No. 303,758. 1 Claim. (Cl. 240—62.)



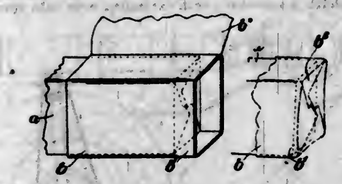
In a dirigible headlight, the combination with the frame of a motor driven vehicle and a steering rod for the wheels thereof, of rotatable headlight supporting standards and brackets, a plate secured at its rear and under each of the said brackets and extending forward therefrom, hangers depending from the underside of said plates and secured to said brackets, said hangers extending downward a distance and turned forward at approximately 90 degrees, annular apertures located approximately the center line of the horizontal lower portions of said hangers, shafts threaded at their upper ends and bifurcated at their lower ends and vertically disposed through the annular apertures aforesaid, sleeves secured to the lower portion of lamp supporting standards, resilient means disposed between said plates and said sleeves, arms pivotally disposed within the bifurcated portions of shafts aforesaid and extending backward and downward between the front axle and spring of a motor vehicle, elongated apertures located at the lower end of said arms, rods having their inner ends adapted to engage said apertures and their outer ends connected to the transverse steering rod of the vehicle, links the outer ends of which are adapted to engage the said apertures, a spring disposed between the arms aforesaid and engaging the links as described.

1,397,755. TRACTOR. VIRGIL F. DECKERT, Minneapolis, Minn. Filed Oct. 2, 1917. Serial No. 194,318. 1 Claim. (Cl. 180—54.)



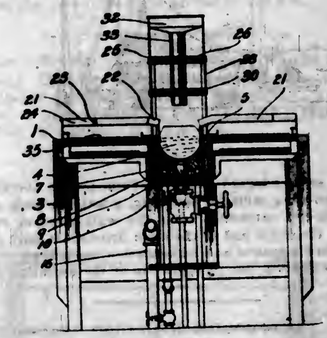
A complete tractor frame in the form of an integral casting comprising a section adapted to be used as a portion of the differential and rear axle housing, a section comprising an operating platform at the rear of said section, a section adapted to be used as a portion of the transmission casing in front of the first mentioned section and a section adapted to form a part of the engine casing in front of said last mentioned section, said frame also comprising guide members formed near the front thereof, and a shaft hanger formed therewith adjacent the transmission casing, said section forming the engine casing transmission casing and the rear axle housing being formed as closed chambers adapted to receive a lubricant.

1,397,756. PAPER CONTAINER. HENRY DREDGALE, London, England. Filed Nov. 20, 1918. Serial No. 263,330. 5 Claims. (Cl. 93—36.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



5. The method of constructing a paper container, wherein a strip or sheet of paper is concurrent plaited and overlapped at the end during the winding on of the strip or sheet.

1,397,757. CONFECTION APPARATUS. THOMAS ALVA EDAUGH, Kansas City, Mo. Filed Nov. 25, 1919. Serial No. 340,584. 19 Claims. (Cl. 91—2.)



1. In a confection machine, a frame, a chocolate trough-shaped container longitudinally supported by the frame and extending from end to end of the frame, dip trays carried by the frame and along the edge of the container, and a conveyer running past the dip trays.

7. In a confection machine, a frame, a trough-shaped chocolate container, carried by the frame, a delivery hopper at one end of the container, a water jacket about the container, dipping pans along the edge of the container and extending over the same, candy center-carrying supports adjacent to the dipping pans, and a conveyer movable longitudinally of the frame and past the dipping pans.

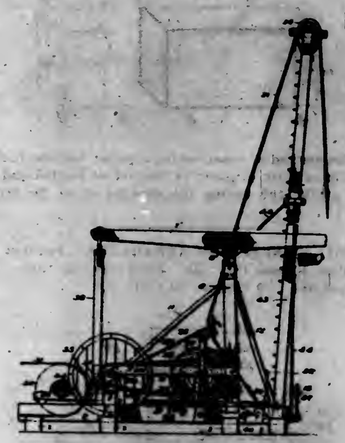
9. In a confection machine, a frame, a chocolate container longitudinally supported by the frame, dip trays adjacent to the chocolate container, an endless belt moving longitudinally of the frame and adjacent to the trays, a superposed frame carried by the first named frame, and oppositely movable conveyers carried by the superposed frame.

11. In a confection machine, a frame, a chocolate container carried by the frame, dip trays adjacent to the chocolate container, a conveyer having an exposed surface adjacent to the trays, a tunnel carried by the frame through which the conveyer passes, means for directing cooling air into the tunnel, and means for controlling the volume of air passing into the tunnel.

1,397,758. WELL-DRILLING MACHINE. LEVI B. EKAS, Williamstown, W. Va. Filed Aug. 12, 1919. Serial No. 316,934. 3 Claims. (Cl. 255—11.)

1. The combination with a base and a mast, of a bull-wheel shaft, a cable secured to and wound thereon, a main

drive-shaft having cranks on each end thereof, a drive-wheel secured thereon between the cranks, a sprocket-wheel loosely mounted thereon, means for clutching said sprocket-wheel to the shaft, a sprocket-wheel on the bull wheel shaft, a sprocket chain extending over said sprocket-



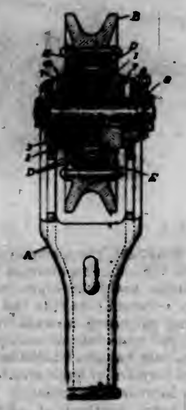
wheel, a cable adapted to extend from one of the cranks to the operating cable for spudding, a walking-beam and a connecting-rod extending from the walking-beam to the crank on the other end of the main drive-shaft, said drive-shaft with its cranks and transmission mechanism extending in the general line of operation of the operating cable.

1,397,759. AUTOMOBILE-HOOD CLIP. FREDERICK W. FRANKLIN, Syracuse, N. Y. Filed Dec. 26, 1919. Serial No. 347,374. 2 Claims. (Cl. 292—114.)



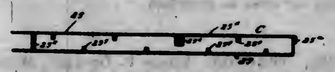
1. A hood clip comprising a tubular body, a rod extending into the tubular body through the lower end thereof and having a nut thereon, a spring seat located in the lower end of the body and having means for interlocking with the body, the body being formed with a non-circular opening at its lower end, a spring seat conforming to said opening, the body and the spring seat having means for interlocking when the spring seat is passed through said opening and given a partial turn, and a spring encircling the rod and interposed between the nut and the spring seat, substantially as and for the purpose set forth.

1,397,760. TROLLEY. JOSEPH L. GUTWILLER and FRANCIS W. KOELLE, St. Louis, Mo. Filed May 20, 1921. Serial No. 471,109. 16 Claims. (Cl. 191—59.1.)



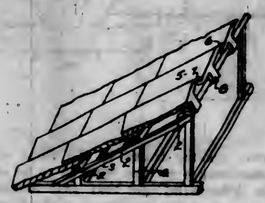
1. A trolley, comprising a supporting member, and a wheel mounted in said member in such a manner that it normally has a sliding contact with a trolley wire or electrical conductor over which it is traveling forwardly but is capable of revolving and continuing to revolve about its axis when the trolley wire exerts and maintains an abnormal pressure on said wheel.

1,397,761. FLYING-MACHINE. HARRIS G. HOOPER, Los Angeles, Calif. Filed Aug. 28, 1917. Serial No. 188,623. 6 Claims. (Cl. 244—12.)



6. A flying machine including a supporting plane having independent upper and lower surfaces formed of sheet metal, said surfaces presenting smooth exterior faces, while the opposed faces have integrally formed reinforcing ribs.

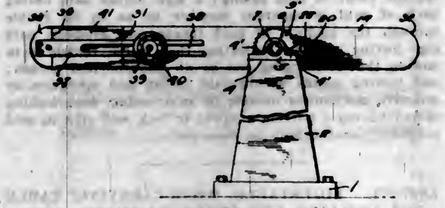
1,397,762. GLASS-HOUSE ROOFING. PAUL W. JANNOCH, Pasadena, Calif. Filed Jan. 2, 1920. Serial No. 348,998. 1 Claim. (Cl. 108—10.)



The herein described roof, composed of a plurality of assembled plates, each of which comprises a substantially rectangular flat body portion, flanges projecting from the sides of said body portion, which flanges are equal in width and arranged in parallel planes that are inclined with respect to the plane occupied by the body of the plate, said flanges overlapping throughout their entire widths, the corresponding flanges of the adjacent roof members

when the latter are properly assembled, and which overlapping flange arrangement causes the body portions of the members to occupy inclined planes when properly assembled, and thereby providing a roof structure having a plurality of parallel shallow channels.

1,397,763. ADJUSTABLE BANDING-BOARD. JOHN FRANCIS KENNEDY, Baltimore, Md., assignor to Delion Tire and Rubber Company, Baltimore, Md., a Corporation of Maryland. Filed Sept. 21, 1921. Serial No. 502,302. 7 Claims. (Cl. 18—1.)



1. A device of the character described comprising a supporting shaft and supplemental supporting rods cooperating therewith, an extensible sleeve board stationarily mounted thereon, a frame in which the other end of the shaft is journaled, and means which will permit the rotation of the shaft and board.

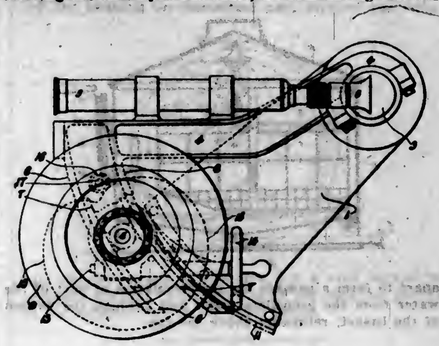
1,397,764. TAKEDOWN TABLE. KEISHIRO KUNISHIGE, Los Angeles, Calif. Filed Nov. 23, 1920. Serial No. 425,939. 3 Claims. (Cl. 45—31.)



1. In a take-down table, the combination with a top having an integral depending flange on the underside, of angular brace-bars disposed on the underside of the top and extending radially from the center to the depending flange, the said brace-bars being fixed to the top and having elongated openings on the bottom, detachable legs, mortise ends on the legs engaging with said elongated openings, braces connecting the legs in pairs, a center plate, and bolts passing through the leg braces and screwing into the top brace-bars and into the center-plate.

1,397,765. SIGHTING-GEAR FOR GUNS. HUGH WARREN LEE and ROBERT MORRISON, Newcastle-upon-Tyne, England, assignors to Sir W. G. Armstrong, Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Filed Mar. 23, 1920. Serial No. 368,182. 4 Claims. (Cl. 33—46.)

1. In gun sighting gear, the combination of a gun trunnion, a transverse shaft, means for moving the shaft around the trunnion axis, a cam upon the shaft, means for rotating the cam upon the shaft, an arm having one end



pivoted about the trunnion axis and the other end supported by the cam and a sight carried by the arm.

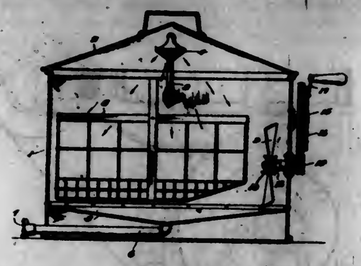
1,397,766. CONSTANT-TEMPERATURE WATER-BATH. TIODOLF LIDBERG, Chicago, Ill., assignor to Chicago Surgical & Electrical Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 23, 1918. Serial No. 218,741. 2 Claims. (Cl. 219—38.)

1. A device of the character described comprising a receptacle having oppositely positioned vertical walls; a plurality of water tight tubes extending across said receptacle and supported at their respective ends by the walls and each tube open at one end outside of said receptacle; a heating element carrying terminals on its outer end insertible in one said tube and a thermal-responsive device carrying terminals on its outer end insertible in another tube thereby to control the heat produced by the heating element through an intermediate medium to be inserted in said receptacle.

1,397,767. DISH-WASHING MACHINE. CURT F. LOCHOW, Seattle, Wash. Filed May 21, 1920. Serial No. 383,163. 1 Claim. (Cl. 141—9.)

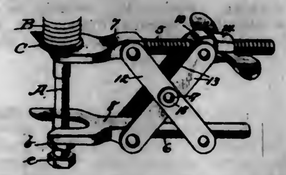
A washing machine comprising a casing, a concave bottom inclined downwardly toward the center from all sides, an article receptacle carried in the casing above the bottom and having one end spaced from the end wall of the casing and formed with a beveled bottom portion at this end, a pair of intermeshing oppositely rotating propellers adjacently mounted in the end wall within the casing, the sweep of the propellers embracing sub-

stantially the width of the casing, the beveled bottom of the article receptacle and the concave bottom being spaced



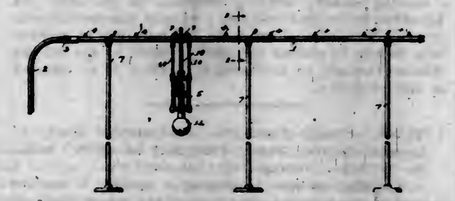
apart to form a passage for the circulation of part of the water from the propellers under and through the bottom of the basket, returning above the top.

1,397,768. VALVE REMOVER AND LIFTER FOR INTERNAL-COMBUSTION ENGINES, &c. LEO JAMES MCKONE, Kansas City, Mo., assignor to William A. Casey, Kansas City, Mo. Filed July 30, 1920. Serial No. 400,074. 2 Claims. (Cl. 29—86.3.)



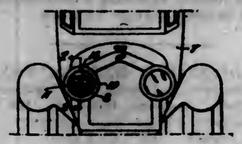
1. A device for lifting and removing stem-valves comprising two spreaders the free ends of which are bifurcated and adapted to straddle the stem of the valve, bars secured to and projecting from said spreaders opposite their free ends, crossed links pivotally connected to said spreaders at one end and slidably connected to said bars at the other for separating said spreaders and bars apart and maintaining them parallel to each other, a transverse bolt connecting said links at their points of intersection, the diameters of the ends of said bolt being reduced where they pass through said links, and the outer extremities of said ends being still further reduced, and washers mounted on said extremities and retained thereon by riveting the said extremities.

1,397,769. IRRIGATING OR SPRINKLING SYSTEM. GEORGE E. MARCH, Muskegon, Mich. Filed Apr. 23, 1920. Serial No. 375,962. 15 Claims. (Cl. 299—66.)



1. In an organisation of the character described; a support having a horizontally disposed upper surface; a horizontally disposed pipe supported on and adapted to roll during the irrigating operation along said surface and having a lateral irrigating vent; means for rolling the pipe.

1,397,770. TRESPASS-SIGN FOR AUTOMOBILES. MARK W. MARSDEN, Philadelphia, Pa. Filed July 1, 1920. Serial No. 393,228. 7 Claims. (Cl. 40—15.)



1. A device of the character described including a vehicle lamp casing; a transparent member forming a closure for the front of said casing; a sign within said casing back of said transparent member so as to be visible through the medium of said transparent member, said sign having portions indicating that if the vehicle is in motion that it is being run by an unauthorized person; and locking means within said casing and operative by selective mechanism outside of said casing, said locking means having a portion adapted to lock said sign in said position; substantially as described.

1,397,771. ADJUSTABLE WORK-CARRYING TABLE FOR DRILLING AND OTHER MACHINES. GEORGE FREDERICK MORT, deceased, by John Chester Mort, executor, Ealing, England. Filed Jan. 24, 1920. Serial No. 353,900. 2 Claims. (Cl. 77—63.)



1. In an adjustable work-carrying table for drilling and other machines having a stationary base and a table movable relatively thereto; the combination of a one-piece cruciform member comprising a lower base guide bar adapted to enter and slide in a slot of said stationary base to permit said movable table to have a sliding movement together with said cruciform member in one direction upon said stationary base, and an upper table guide bar extending at right angles to said base guide constructed to slidably fit an under-cut groove of said movable table, to permit said movable table to have a sliding movement on said cruciform member at right angles to and upon said stationary base, and means for clamping the movable table and the cruciform member to the stationary base.

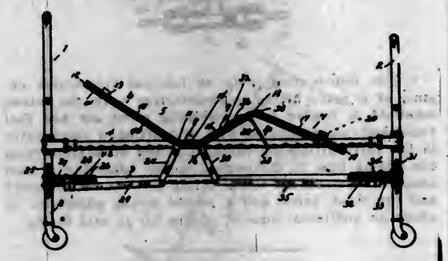
1,397,772. ADJUSTABLE INTERNAL BRAKE-SHOE. HENRY W. MUHLBIGER and CLEMMEN LUND, Los Angeles, Calif., assignors to W. S. Rush & Co., Los Angeles, Calif., a Partnership composed of W. S. Rush, E. S. Rush, and B. C. Graves. Filed Feb. 24, 1919. Serial No. 278,818. 1 Claim. (Cl. 188—196.)



A brake support; a brake drum adjacent the brake support; two brake shoes fitting within the brake drum and adapted to tighten upon the drum by expansion; an operating cam between adjacent ends of the shoes for setting the brake; heads upon the opposite ends of the brake

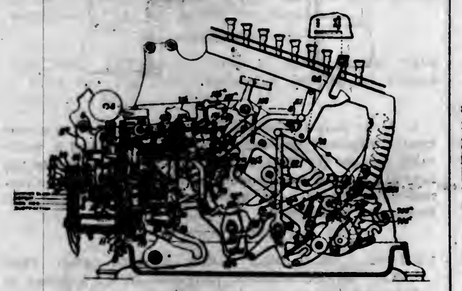
shoes; an elongated cam between the heads; a shaft extending from the cam and screw seated through the brake support; a jam nut upon the shaft; and an operating head extending from the shaft beyond the jam nut, so that the operating head may be engaged by a tool to rotate the shaft to adjust the cam to expand the shoe, and then the jam nut tightened to hold the cam in its adjused position.

1,397,773. BED. WILLIAM HOWIE MUIR, Detroit, Mich., assignor to Jenks & Muir Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 29, 1918. Serial No. 264,536. 2 Claims. (Cl. 5—12.)



1. In an invalid bed structure, the combination with a frame including side bars, of a head section supported on said frame, a foot section, an intermediate section having its inner end pivoted to the frame and its outer end pivoted to the foot section, the outer end of the foot section having sliding engagements with the side bars of the frame, downwardly extending arms rigidly secured to the intermediate section adjacent the inner end thereof, and operating means pivotally connected to the arms for tilting said intermediate and foot sections.

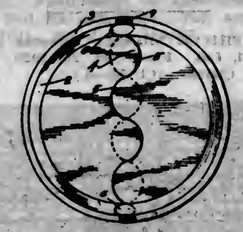
1,397,774. ADDING-MACHINE. ROBERT L. MULLER, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 23, 1918. Serial No. 268,065. 10 Claims. (Cl. 235—60.)



2. In a machine of the character described, the combination with settable controlling elements thereof, and its tabulating paper carriage; of members adapted to be brought into action upon said controlling elements through the tabulating shifts of said paper carriage, and means for varying the alinement between said members and said elements to conform with differing requirements of the accounting work in hand.

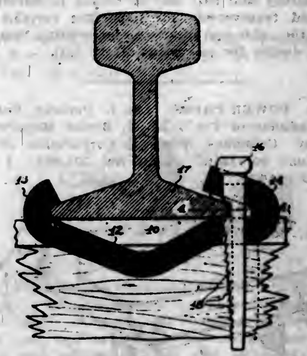
1,397,775. SECTIONAL PIE-PAN. MAY BELLE NEUMEISTER, Los Angeles, Calif. Filed Aug. 17, 1920. Serial No. 404,115. 1 Claim. (Cl. 53—6.)

A pan comprising separate sections, each having an annular flange, the meeting edges of said sections each having a plurality of projecting surfaces, said surfaces and the meeting ends of said flanges being arranged to overlap for forming the assembled pan, each of the ends of



said flanges having an aperture and a stud beyond said aperture adapted to be received in the aperture provided in the adjacent end of the other flange.

1,397,776. COMBINATION TIE-PLATE AND ANTI-CREEPER FOR RAILS. MELVIN OVESTRUD, Stillwater, Minn., assignor to Twin City Forge & Foundry Company, Stillwater, Minn., a Corporation of Minnesota. Filed Aug. 12, 1921. Serial No. 491,811. 8 Claims. (Cl. 238—315.)



7. A device of the class described, comprising a tie-plate, a base-embracing yoke integral with the tie-plate and forming a tie-abutment and a pin coöperating with the yoke and the base of a rail to cause the yoke to grip the rail.

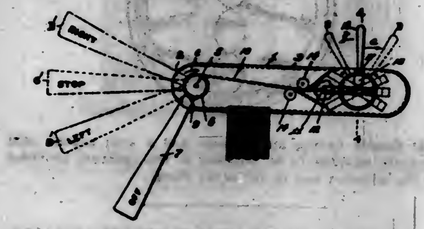
1,397,777. ELECTRIC SWITCH. CHAUNCEY R. PELTON and JAY A. HAND, Detroit, Mich., assignors to The Pelton & Crane Company, Detroit, Mich., a Corporation of Michigan. Filed July 31, 1920. Serial No. 400,349. 8 Claims. (Cl. 200—138.)



1. A thermal cut-out, having in combination, a bridge for a switch, a pair of toggle arms coupled up with the bridge and when in substantially straight line position holding the bridge against a tendency to move into open position, and a thermostat arranged to apply movement

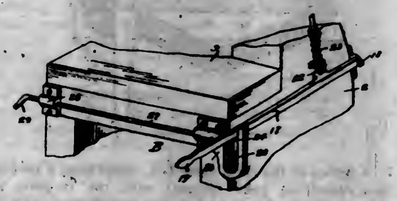
at the knee of the toggle solely to break the same and allow the bridge independently of the energy of the thermostat to move into open position.

1,397,778. VEHICLE-SIGNAL. CHESTER A. PERKINS, South Bend, Ind. Filed Nov. 29, 1920. Serial No. 427,118. 4 Claims. (Cl. 74—5.)



4. An actuating device for imparting variable movements to a cable, said device comprising a casing, a ball mounted in said casing, a screw threaded through said ball and having one of its ends connected to the cable, means whereby said ball may be rocked forwardly, rearwardly and transversely for imparting variable movements to the cable and means for preventing rotation of the screw during the movement of the ball.

1,397,779. POWER-PRESS. LEO L. PFEIFER, Columbus, Ohio, assignor to The John W. Brown Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed June 20, 1919. Serial No. 305,691. 1 Claim. (Cl. 192—116.)



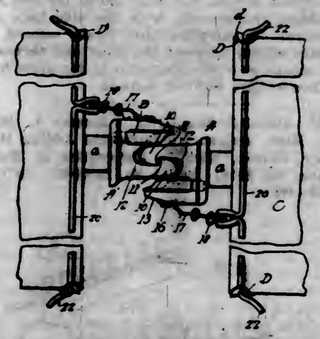
In a power press, a rotatably mounted actuating shaft, a power delivering element capable of rotating independently of said shaft, a manually operated clutch structure for connecting said shaft and element for rotation in unison, a pivoted stop member coöperative with said clutch structure and normally serving to retain the shaft and power delivering element out of driving relation, a manually operated arm pivoted to the side of the press including a forwardly extending handle, a link between said arm and stop member, a spring coöperative with said link and normally serving to maintain said arm in an elevated position and to retain said stop member in engagement with said clutch structure, a spring pressed latch carried by the front of said press and normally disposed to underlie said arm to prevent oscillation of the latter, said latch including a bevel nose portion and a substantially flat upper surface, and a slidably mounted actuating rod connected with said latch disposed to extend transversely of said press, said rod terminating in a handle portion disposed in spaced relationship from the handle portion of said pivoted arm whereby both hands of the operator will be required in effecting the operation of the clutch operating controlling mechanism.

1,397,780. FUEL-FEEDING SYSTEM. CHARLES POST, Los Angeles, Calif., assignor to John O. King, Los Angeles, Calif. Filed Feb. 26, 1920. Serial No. 360,861. 2 Claims. (Cl. 48—180.)



2. The combination, with an internal combustion engine, of a valve fitting communicating with the intake manifold, a mixing tube combining moist air and fuel vapor and communicating with said fitting, a check valve in the valve fitting controlling the flow of mixture from the mixing tube to the engine, means admitting a fixed amount of outside air to the fitting between the manifold and the check valve, and a second means adjustable to admit an additional amount of free air to said fitting.

1,397,781. CAR-COUPLING. JOSEPH REIF, Hebron, Ind., assignor of forty-five per cent. to Francis E. Ling, Hebron, Ind. Filed June 1, 1920. Serial No. 385,485. 6 Claims. (Cl. 213—17.)



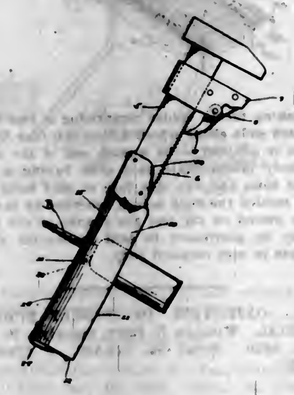
1. A car coupler comprising a draw head having a vertically disposed, forwardly projecting hook and a vertically slidable gravitating latch substantially opposite the face of the hook to act upon the opposite side of the corresponding hook on an opposing coupler from the first mentioned hook.

1,397,782. STOP FOR DESK-SLIDES AND THE LIKE. ERNEST RHODES, Herkimer, N. Y., assignor to Standard Furniture Company, Herkimer, N. Y., a Corporation of New York. Filed July 7, 1921. Serial No. 482,970. 3 Claims. (Cl. 45—6.)



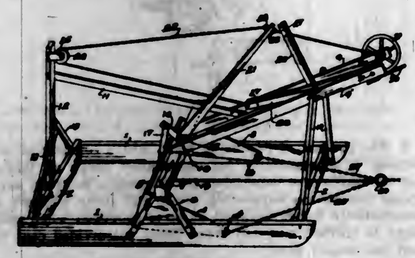
1. In combination with a desk having an opening therein for the reception of a slide; a slide mounted in said opening, said slide having a bore formed therein; a gravitating stop loosely mounted in said bore and adapted, when the slide is positioned in the opening, to drop downwardly and prevent withdrawal of the slide; and means carried by the stop for limiting the downward movement of the stop, said stop being free of any mechanical connection with the slide and readily removable therefrom.

1,397,783. TOOL-HANDLE. CLINTON W. RIEFF, West Fork, Ark. Filed Sept. 1, 1920. Serial No. 407,390. 3 Claims. (Cl. 145—62.)



1. A device of the character described comprising a body member having a chamber therein, said body member having an opening in one of its sides and a slot in the opposite side communicating with said chamber, and an oil can pivoted in said chamber, the body of said can being movable through the opening of the chamber, the spout of the can being movable through the slot upon pivotal movement of the can within the chamber.

1,397,784. LEVELER. JOHN F. ROPP, Blythe, Calif. Filed May 11, 1920. Serial No. 380,563. 3 Claims. (Cl. 37—42.)



1. A leveler comprising a frame, a scraper pivoted on said frame, a cross support, a derrick projecting forwardly from and supported upon said support, a bell crank mounted on said support, a link connecting one arm of said crank with said scraper, a pulley support positioned on the rear of said frame, pulleys mounted on the latter support and on the forward end of said derrick, a flexible member passed around said pulleys and fastened to the other arm of said crank, and means for actuating one of said pulleys so as to raise or lower said scraper.

1,397,785. ELECTROTYPE MATERIAL AND METHOD OF FORMING SAME. GUSTAV U. BOSE, Jr., Washington, D. C. Continuation of application Serial No. 366,463, filed Mar. 17, 1920. This application filed Mar. 2, 1921. Serial No. 449,273. 12 Claims. (Cl. 204—13.)



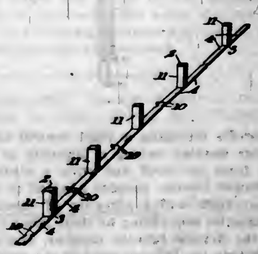
1. The herein described method for the electro-deposition of copper to a thickness usually forming "trees" and producing little tensile strength, which consists in electro-depositing the copper in a number of layers and in breaking up the growth of upper crystals between the layers whereby to check the formation of "trees" and correspondingly increase strength of the finished plate.

1,397,786. BORING-TOOL HOLDER. JOSEPH C. SAXTON, Worcester, Mass. Filed Apr. 19, 1919. Serial No. 291,342. 19 Claims. (Cl. 29—99.)



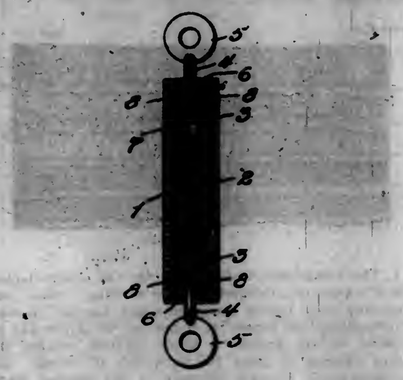
1. A device as described consisting of a cylindrical hollow body, a cylindrical body rotatably adjustable therein, a rectilinearly traveling tool clamping member arranged in said body, and actuating means engaging said clamping member and adapted to lock said rotatably adjustably body and at the same time to actuate said clamping member.

1,397,787. FASTENER FOR PAPERS AND OTHER MATERIALS. CEDRIC PUTNAM SIBLEY, Detroit, Mich. Filed Nov. 10, 1920. Serial No. 423,143. 4 Claims. (Cl. 24—153.)



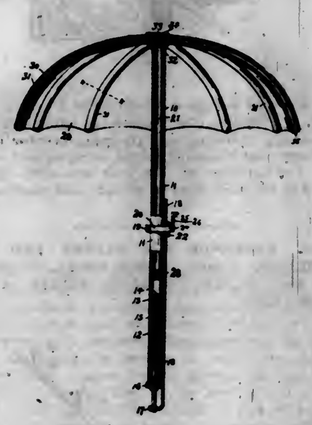
3. A paper fastener, in strip form, having a closed end barrel adapted to be driven through the material to be fastened, and bottom flanges, severed from the strip in the act of setting.

1,397,788. INTENSIFIER. CHARLES SMITH, St. Louis, Mo., assignor, by mesne assignments, of one-half to Clyde M. Mettler, St. Louis, Mo. Filed May 17, 1920. Serial No. 381,851. 3 Claims. (Cl. 175—183.)



1. In an intensifier, a non-conducting receptacle having closures of conductive material; and a mass of comminuted conductive material held in place within said receptacle.

1,397,789. UMBRELLA. CLARENCE G. STONESTREET, Akron, Ohio. Filed July 2, 1920. Serial No. 393,599. 1 Claim. (Cl. 135—20.)



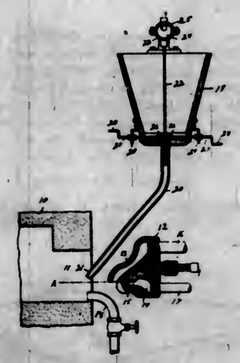
An umbrella including a rigid central tubular staff, a fabric cover member having a plurality of tubular seats radiating from the staff and with a central opening, a central flexible tubular member adapted to be disposed in the tubular staff, and a plurality of tubular ribs of inflatable material converging at their inner ends and merging into the flexible tubular member, and adapted to be disposed within the tubular seats of the cover, said flexible central member and indeflatable ribs insertible in and removable from the staff and seats through the central opening of the cover member, and means for introducing air under pressure into the flexible central tubular member and inflatable ribs.

1,397,790. FISHING-TACKLE HOLDER. FOLKE W. TROEDE, Rockford, Ill. Filed Mar. 14, 1921. Serial No. 452,276. 4 Claims. (Cl. 43—31.)



1. A fishing tackle holder comprising a reel body having recessed ends about which a line carrying hook snells and hooks is adapted to be wound, one of the side edges of said body intermediate said ends having a series of transverse slots and one side face of said body being recessed to receive the hook points, whereby as the line and snells are wound on the reel the shanks of the respective hooks may be positioned in said transverse slots with their points in said recessed body.

1,397,791. OXIDATION OF FINELY-SUBDIVIDED MATERIAL. WILLIAM N. BEST, Brooklyn, N. Y. Filed Feb. 8, 1919. Serial No. 275,682. 3 Claims. (Cl. 110—22.)



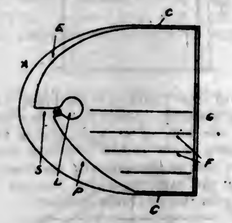
2. The process of producing heat, which consists in delivering a substantially flat fan-shaped spray of liquid fuel by means of a vaporizing jet of gaseous medium, supplying combustion supporting air to the spray whereby a substantially flat fan-shaped flame is produced when said spray is ignited, and delivering finely sub-divided coal to said fan-shaped flame.

1,397,792. APPARATUS FOR OXIDATION OF FINELY-SUBDIVIDED MATERIAL. WILLIAM N. BEST, Brooklyn, N. Y. Original application filed Feb. 8, 1919, Serial No. 275,682. Divided and this application filed June 4, 1920. Serial No. 386,646. 3 Claims. (Cl. 110—22.)

1. An apparatus of the character described, including a burner or atomiser for delivering a substantially flat fan-shaped spray of liquid fuel in substantially horizontal

direction, means for delivering combustion supporting air beneath said spray, and means for delivering a finely subdivided solid material above said spray and permitting it to drop substantially vertically into the flame.

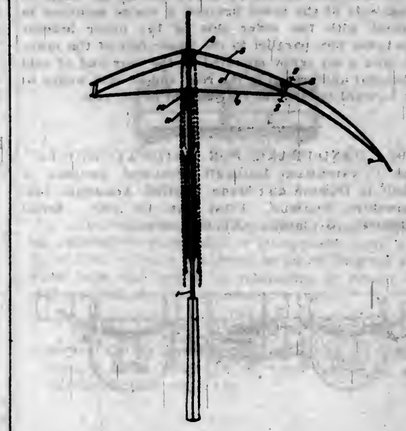
1,397,793. HEADLIGHT. OLIN W. BLACKETT, Brookline, Mass. Filed Jan. 10, 1921. Serial No. 436,383. 1 Claim. (Cl. 240—48.4.)



In a headlight, the combination of a casing, a parabolic reflector, an elliptical reflector, a cylindrical reflector, a source of light, said reflector being adapted to throw the light ahead, a series of semi-cylindrical, non-reflecting, parallel laminæ in the lower portion of the headlight, a series of radio laminæ, supporting the semi-cylindrical laminæ, and a glass front, the upper major portion of which is translucent, all substantially as described.

1,397,794. UMBRELLA. EDWIN ROMEYN CHASE, Sacramento, Calif. Filed Oct. 15, 1920. Serial No. 417,121. 1 Claim. (Cl. 136—27.)

An umbrella including a stationary sleeve, rods arranged in pairs and radiating from the sleeve, the rods of each pair being pivotally connected at their inner ends to the respective ends of the sleeve, the outer end of one of the rods being pivoted to the second rod of the pair at a point spaced in from the outer end of said second rod, spreading links pivotally connected to the intermediate portions of the rods of each pair, a movable sleeve, stretchers connecting the movable sleeve to the spreading links, and a rod fixedly connected to the stationary sleeve and slidably engaged by the movable sleeve.



1,397,795. RUBBER TIRE. WALTER THOMAS CLIFFORD-EARP, Barnes, England. Filed Apr. 26, 1920. Serial No. 376,736. 3 Claims. (Cl. 152—1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A solid rubber tire comprising a tread, side walls separated by an internal recess, an inner circumferential wall member having a circumferential division, a supporting inextensible member integrally associated with the inner circumferential wall, said supporting inextensible member also having a circumferential division corresponding to the circumferential division of the inner circumferential wall of the tire so that prior to the assembly for use the two parts of the inner circumferential wall are separated whereby when two parts of the inextensible member are caused to approach each other the material of the tire is put in compressive stress and an air tight joint is formed, substantially as described.

1,397,796. TOOL-HOLDER. GEORGE R. COULS, Detroit, Mich. Filed Nov. 8, 1920. Serial No. 422,486. 4 Claims. (Cl. 29—96.)



1. A tool holder comprising a shank and a tool supporting bracket on one side of the shank provided with a

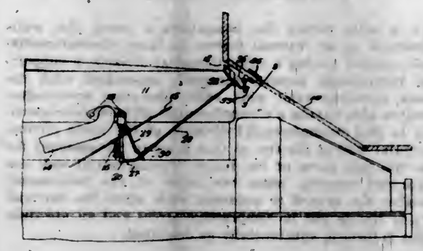
groove into which the tool may fit with its cutting end projecting from the end of the holder, a second bracket above the first and having its lower side at an angle to the upper side of the lower bracket, a wedge mounted in engagement with the lower side of the upper bracket with its lower face parallel to the upper face of the lower bracket, and a set screw mounted in the rear end of said upper bracket and engaging the rear end of said wedge to force it forward toward the cutting end of the tool.

1,397,797. HAND-BRAKE FOR RAILWAY-VEHICLES. JAMES CUNNINGHAM, Bathgate, Scotland, assignor of one-half to Dickson and Mann Limited, Armadale, Linlithgowshire, Scotland. Filed Mar. 15, 1920. Serial No. 365,915. 5 Claims. (Cl. 188—202.)



5. A railway vehicle brake comprising a short hand lever at each side of the vehicle, a rocking shaft, connections to said shaft from said levers, a crank on said shaft, a pair of toggle links connected to the brakes, a member pivotally connected at one end to said crank and having a slotted pivotal connection at the other end to said toggle links, a compression spring mounted upon said member between said crank and links and a stop on said member for limiting the movement apart of said crank and toggle links under the action of said spring.

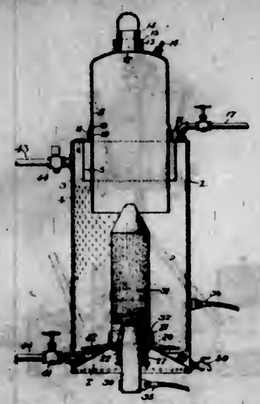
1,397,798. SAFETY FOOT-THROTTLE FOR AUTOMOBILES. EARL J. CURRIER, Ottumwa, Iowa. Filed Aug. 25, 1920. Serial No. 405,878. 6 Claims. (Cl. 74—39.)



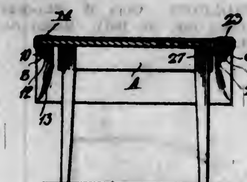
5. The combination with a hand control throttle rod and throttle actuating rod sections leading from said throttle rod, of a coupling member of angular form connected to and extending between said rod sections and moving relatively to one of the sections in one direction, and a foot control including a horizontally shiftable foot lever operatively connected to said coupling member for actuating the latter.

1,397,799. ELECTROLYTIC CELL. ELISHA BARTON CUTTEN, Minneapolis, Minn. Filed June 25, 1920. Serial No. 391,614. 7 Claims. (Cl. 204—58.)

1. An electrolytic cell comprising a tank constituting a cathode, an anode therein, a receiver supported from the top of the tank and immersed in the electrolyte surrounding the anode, and a perforated liner spaced from the inner wall of the tank.

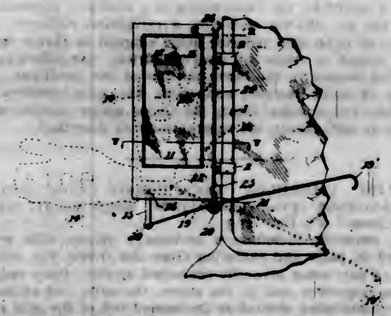


1,397,800. MEANS FOR SUPPLYING TEMPORARY TABLE-COVERS. WALTER DE MATTOS, Ottawa, Ontario, Canada. Filed June 24, 1921. Serial No. 480,122. 3 Claims. (Cl. 45—75.)



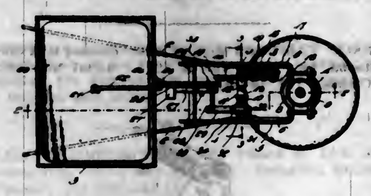
1. A device of the character described comprising a roll of covering material, means for supporting the same in position on one side of a table, means for normally preventing turning of the roll, a retaining member adapted to retain one end of the covering material against the opposite side of the table to which the roll is attached, and a cut-off bar on the retaining member.

1,397,801. DIRECTION-INDICATOR FOR AUTOMOBILES. JOHN DROTAR, Washington, D. C. Filed July 18, 1921. Serial No. 485,472. 8 Claims. (Cl. 116—52.)



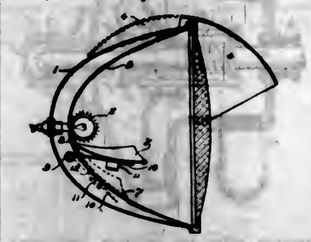
1. A direction indicator for automobiles comprising a casing having an open side and bottom, means for securing the closed side of the casing to the windshield of an automobile, indicator hands pivotally supported in said casing with the lower ends extending downwardly of the casing, said indicator hands being normally housed within the casing and adapted to be projected through the open side thereof, pull rods pivotally connected with the lower ends of said indicator hands, guide rollers for the pull rods carried by said casing, and means for adjusting the angularity of the casing relative to its supporting means.

1,397,802. CONTROLLING DEVICE FOR WINDMILLS. ALFRED EGE, Sioux Falls, S. D. Filed Jan. 4, 1921. Serial No. 434,972. 6 Claims. (Cl. 103—105.)



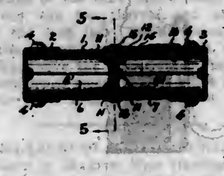
1. In a pump operating structure, a water tank, a float in said tank, a slidably mounted rack connected with said float and moving with the float, a rotatably and slidably mounted drum having a clutch element at one end, a rotatably mounted driving element having a clutch element for engagement by the clutch element of said drum, a gear rotatably mounted and meshing with said rack, means to be actuated from a pump operating mechanism, operatively associated with the driving element for imparting rotary movement to the same when the pump is in operation, a flexible control element for the pump operating mechanism wound upon said drum, and means to slide the drum longitudinally comprising a rocker sleeve, forks extending from the sleeve and engaging the drum, a lever arm extending from the sleeve, a striker bar pivotally mounted and having one end portion weighted and extending for engaging the lever arm, and a pin extending from said gear for engaging the unweighted end portion of said striker bar.

1,397,803. HEADLIGHT. HAROLD EDWARD ENSOR, Canterbury, and JOHN SAMPSON, Sydenham, Christchurch, New Zealand. Filed Feb. 28, 1921. Serial No. 447,079. 1 Claim. (Cl. 240—45.)



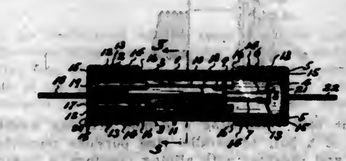
Means for the purpose indicated comprising the combination with a lamp-body, a reflector and lamp contained therein, of a hood pivotally mounted upon the exterior of said lamp-body and adapted when turned in a forwardly direction to intercept and throw down the light issuing from the upper portion of the lamp-front, a flap hingeably attached within said lamp-body and adapted to overlie the portion of said reflector beneath said lamp, such flap being adapted when turned upon its said hinge in a forwardly direction to extend at an angle with said reflector and to throw upward within the lamp-body the rays of light beneath said lamp, and means whereby said hood and said flap may be caused to turn in unison into their said respective forward or rearward positions.

1,397,804. DUPLEX FUSE CARTRIDGE. FREDERICK A. FELDKAMP, Newark, N. J. Filed May 12, 1920. Serial No. 380,768. 6 Claims. (Cl. 200—125.)



1. A multiplex fuse cartridge comprising a casing having external terminal caps on its opposite ends, a plurality of fuse elements connected in series between said terminal caps, and means for connecting in circuit between said caps but one fuse element at a time.

1,397,805. FUSE-CARTRIDGE. FREDERICK A. FELDKAMP, Newark, N. J. Filed Oct. 29, 1920. Serial No. 420,447. 10 Claims. (Cl. 200—125.)



1. The combination with a multiple fuse cartridge having a casing including a plurality of fuse elements and contact means for each fuse element at one end of said casing, of an exterior contact element having means for selective engagement with any one of said contact means, a shell adapted to fit upon said casing and to occupy different positions thereon in a rotative direction, said shell having means at its outer end for engaging and holding said contact element in operative position.

1,397,806. COMBINED SHADE-ROLLER AND CURTAIN-SUPPORTING BRACKET. JOHN N. GAUZENHUBER, Altoona, Pa. Filed Feb. 16, 1920. Serial No. 359,118. 2 Claims. (Cl. 156—28.)



1. A device of the class described including a support, a curtain supporting bracket consisting of a body having one end thereof formed into a clamp for engaging a part of said support, and the said body being also provided with a pocket, a curtain rod supporting member adapted to be detachably fitted in the pocket, and rod engaging and carrying projections extending from the face of said supporting member.

1,397,807. BRUSH-HANGER. CHARLES E. HECHT, Irvington, N. J. Filed Mar. 5, 1921. Serial No. 449,719. 12 Claims. (Cl. 248—60.)

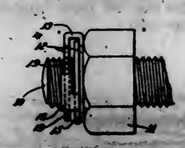
2. In a brush hanger, a headed member secured to the brush, and a hook member having a part adapted to extend over the rim of a pot and a part adapted to extend

on the inner side of the pot wall and said last named part being provided with a key hole slot to detachably and sep-



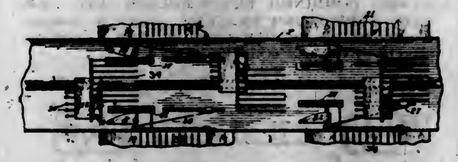
arately engage said headed member, whereby the hook member may be secured to the brush or completely detached therefrom at will.

1,397,808. NUT-LOCK. WILLIAM HOWARTH, Devon, Conn. Filed Dec. 15, 1920. Serial No. 431,027. 4 Claims. (Cl. 151—27.)



1. A nut lock comprising a double gripping washer consisting of a pair of parallel ring portions connected by a web and provided with alining openings, a locking washer consisting of a disk having an opening, said disk and gripping washer having independent rotary movements and said disk adapted to be arranged between said ring portions so that all of said openings are in alinement, and coöperating means carried by said gripping washer and disk whereby they can be locked to each other.

1,397,809. RESTAURANT SERVICE DEVICE. JOSEPH HUTCHINSON, Montreal, Quebec, Canada. Filed Feb. 12, 1920, Serial No. 358,048. Renewed Oct. 4, 1921. Serial No. 506,031. 30 Claims. (Cl. 186—1.)



2. In a device of the character described the combination with a dish tray carrier and a plurality of receiving platforms for receiving the dishes carried by said trays, means for automatically moving said trays whereby they will be caused to be positioned upon said receiving platforms, and means for releasing said trays whereby the dishes will be deposited upon said tables.

1,397,810. TURNBUCKLE-WRENCH. CARTER J. JOHNSON, Green Bay, Wis. Filed Jan. 8, 1921. Serial No. 435,812. 4 Claims. (Cl. 81—90.)

2. A turnbuckle wrench including a shell having its opposite ends bifurcated with resultant pairs of longitudinally extending legs, a stationary plug in one end of the shell, a second plug movable longitudinally within the other end of the shell, a pin carried by the stationary plug axially of the shell and lying with turnbuckle engaging end between the legs of the corresponding end of the shell and a pin carried by the movable plug and



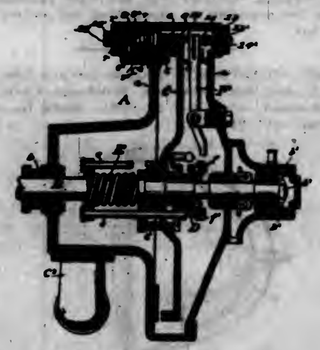
projecting therefrom and movable therewith into and out of position to lie with one end between the legs of the corresponding end of the shell.

1,397,811. CAR-DOOR MOUNTING. GEORGE E. KNEPPER, Altoona, Pa. Filed Apr. 6, 1921. Serial No. 459,112. 6 Claims. (Cl. 16—97.)



4. A car door hanger including a supporting bracket secured to the door, a cylindrical roller in the bracket, spiral grooves cut in the surface of the cylinder forming the roller and means for positioning the axis of the roller at an angle with the plane of the door.

1,397,812. TURBINE GOVERNOR-VALVE. BENJAMIN B. LACY, Houston, Tex. Filed Sept. 13, 1919. Serial No. 323,565. 10 Claims. (Cl. 137—158.)



1. A governor valve for turbines, embodying in its construction a plunger adapted to control the effective port area of the turbine inlet, and means independent of said plunger adapted to automatically regulate the effective port area of said inlet should said plunger fail to function.

1,397,813. WHEEL-RIM-CLAMPING DEVICE FOR AUTOMOBILE-TIRES. UPTON S. LANDERS, Bakersfield, Calif. Filed Sept. 2, 1920. Serial No. 407,742. 1 Claim. (Cl. 152—21.)

A rim clamping device for automobile wheels, including a main rim member, a demountable rim member fitting one edge of the main rim member, clamping members

secured to the inner periphery of the main rim member and each comprising a tubular bearing having arms spaced apart and overlapping the outer edge of the main



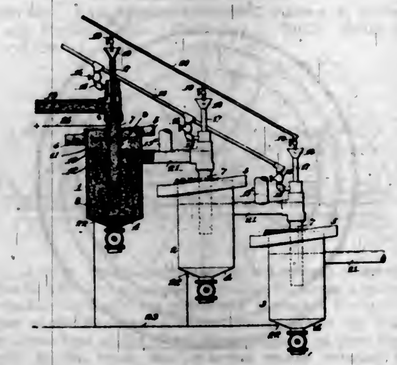
rim member, and clamping bolts having flanges abutting against the ends of the tubular bearings for engaging and disengaging the demountable rim member, opposite the space between said arms.

1,397,814. BLOWTORCH-VALVE. FRANK K. LOW, Milwaukee, Wis. Filed May 17, 1920. Serial No. 382,088. 4 Claims. (Cl. 251—45.)



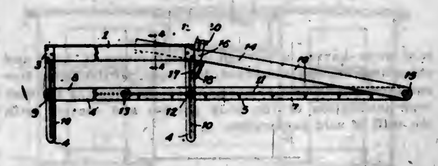
3. A device of the class described comprising a casing having a valve seat, a valve stem threaded into said casing and having a head adapted to engage said valve seat, the rear end portion of said valve stem being screw threaded, a handle threaded on said stem at the rear portion of the same, a nut secured on the rear portion of said valve stem rearwardly of said handle and adapted for limiting the rearward movement of the handle, and a contractile coil spring surrounding said valve stem and having its end portions anchored to said valve stem and said handle for yieldably connecting the handle to said valve stem.

1,397,815. APPARATUS FOR CONCENTRATING ORE. ROYNS LUCKENBACH, Philadelphia, Pa., assignor to Luckenbach Processes Co. (Inc.), San Francisco, Calif., a Corporation of Nevada. Filed Dec. 10, 1917. Serial No. 206,410. 8 Claims. (Cl. 83—85.)



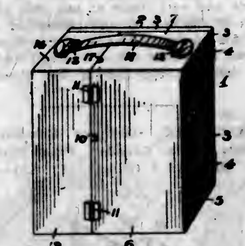
1. An apparatus for concentrating ores, which comprises a tank, a vertically arranged feed tube extending into the tank, means for supplying ore pulp, air and a frothing material to the tube, a conical deflector in the lower portion of the tank and below the tube, whereby the agitation of the pulp issuing from the tube will form bubbles to which mineral values will adhere, the said cone deflecting the heavier ingredients of the pulp outward toward the walls of the tank, there being an outlet from the tank below the top thereof and above the lower extremity of the feed tube, means above the outlet for preventing the heavier ingredients of the pulp from directly rising above the outlet, there being an opening in the last mentioned means whereby the mineral bearing froth may rise above said outlet.

1,397,816. MEASURING AND DESCRIBING INSTRUMENT. JOHN H. MARTIN, New Hartford, N. Y. Filed Jan. 8, 1921. Serial No. 435,965. 3 Claims. (Cl. 33—27.)



3. An instrument of the class described including a body comprising spaced angular members, slotted arms having one of their ends connected to the vertical portions of the angular members and disposed beneath the horizontal portions thereof, a bar arranged transversely across the arms and adjustable longitudinally thereof, a pivoted arm connected to one end of the bar and normally resting between the spaced angular members at one end thereof, means for retaining the end of the pivoted arm in its adjusted position, and a marking instrument carried by the pivoted arm adjacent to one end of the body as and for the purpose set forth.

1,397,817. CAMERA BOX OR CABINET FOR COMBINED MOVING-PICTURE CAMERAS AND PROJECTORS. FRANK MLADINICH, New York, N. Y., assignor of fifteen one-hundredths to Elmer Pontin, Elizabeth, N. J., and forty-two and one-half one-hundredths to Augustus R. de Tartas, Rockwell Center, Long Island, N. Y. Filed May 1, 1920. Serial No. 378,203. 8 Claims. (Cl. 88—17.)



1. A camera box or cabinet for a combined moving picture camera and projector, comprising a main-member, a box-shaped member hinged at one edge to said member, and a second box-shaped member hinged at one edge to said first-mentioned box-shaped member.

1,397,818. PEN OR PENCIL CLIP. RICHARD MOORE, Ossining, N. Y. Filed Dec. 29, 1920. Serial No. 433,912. 2 Claims. (Cl. 24—11.)

1. A securing clip comprising a split sleeve like body portion having a perforation therethrough opposite the

split, and a securing portion integral with said body portion in alinement with said perforation, said securing portion comprising a stem reversely bent with respect to the body portion and extending obliquely therefrom,



said stem having a portion thereof reversely bent and extending angularly toward the body portion, the free end thereof arranged to normally extend into and through said perforation of the body portion and contact with the wall of said perforation.

1,397,819. DRIVER FOR WHEELS, SHAFTS, AND THE LIKE. ANDERS JOHAN ERICSSON MUNTERS, Stockholm, Sweden, assignor to Aktiebolaget Pump-Separator, Stockholm, Sweden, a Corporation of Sweden. Filed Dec. 21, 1918. Serial No. 267,877. 4 Claims. (Cl. 192—44.)



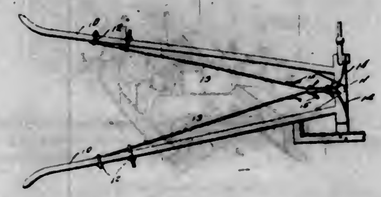
1. A coupling device, comprising a cylindrical member and an approximately triangular member rotatable within the cylindrical member, a pair of disks secured to said triangular member, a plurality of rollers disposed between said disks and each having a floating movement between one side of the triangular member and the inner surface of the cylindrical member, and a pin passing through each of said rollers and said disks at one side of the center of the length of the side of the triangular member for limiting the floating movement of the rollers thereby to cause the same to engage the cylindrical and triangular members for rotation together in one direction.

1,397,820. NUT-LOCK. DELANCY ELWOOD NEWCOMB, Sydney, Nova Scotia, Canada. Filed Sept. 26, 1918. Serial No. 255,792. 1 Claim. (Cl. 151—36.)



A nut lock comprising a washer having a central perforation for a bolt and a radial cut whereby both edges of the cut portion may be bent in opposite directions, the washer being formed integral with a wing member designed to engage the member against which the nut is adapted to bind and to prevent turning of the washer, and a lock projection extending from the washer and designed to be bent against the face of the nut.

1,397,821. BINDER ATTACHMENT. FRANCIS M. PERRIN, Loco, Okla., assignor of one-half to H. P. Lowery, Loco, Okla. Filed Jan. 17, 1920. Serial No. 352,094. 1 Claim. (Cl. 56—102.)



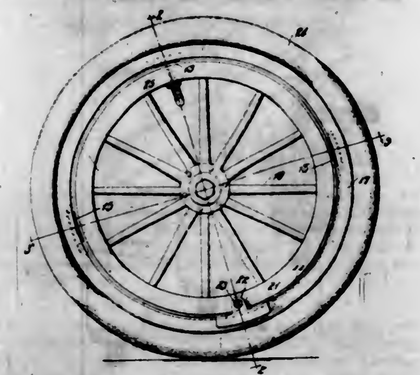
A weed and grass excluding attachment for a harvester comprising forwardly extending resilient arms, means for adjustably connecting the resilient arms to the gathering arms of the harvester, said resilient arms having their rear portions yieldably contacting and laterally directed away from each other, and downwardly and rearwardly and laterally extending weed and grass deflecting elements carried by the resilient arms.

1,397,822. HEADLIGHT DIFFRACTION-LENS. CHAUNCEY G. PERRIN, Washington, D. C. Filed Oct. 14, 1920. Serial No. 416,869. 4 Claims. (Cl. 240—48.4.)



4. A diffraction lens for a vehicle head light comprising a glass plate having approximately one half of its surface on both sides ruled to form minute alternating grooves and ridges in substantially parallel lines and the other half of one surface coated with silver or other reflecting material.

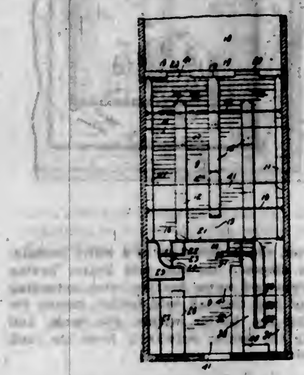
1,397,823. DEMOUNTABLE RIM. EDMUND ROGOWSKI, Chicago, Ill., assignor of one-half to Bernard Freud, Chicago, Ill. Filed June 29, 1920. Serial No. 392,611. 4 Claims. (Cl. 301—11.)



1. A device of the character described including an inner rim band having spaced lugs projecting from its periphery, an outer rim band surrounding the inner band

and having a hollow base, the bottom wall of said base being pressed inwardly to provide a socket receiving one of said lugs and said wall being cut away to provide a slot opening through one side edge of the base and receiving the other of said lugs, and means binding the outer band upon the inner band.

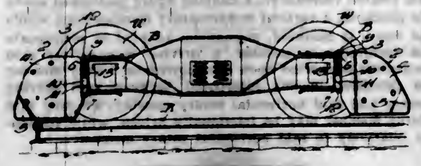
1,397,824. SELF-SERVING STORE. CLARENCE SAUNDERS, Memphis, Tenn., assignor to Piggly Wiggly Corporation, Memphis, Tenn., a Corporation of Delaware. Filed June 20, 1917. Serial No. 175,942. 5 Claims. (Cl. 211—8.)



1. In a store for vending merchandise, a plurality of display units normally freely movable and adapted to be arranged to form a single circuitous path for customers, the outer units having blank outer faces, all the units of the store being adapted for arrangement in contact with each other to form a store unit closed on all sides, and bars extending across the ends of said closed unit for locking the whole together.

4. An apparatus for the vending of merchandise having a series of freely movable display units arranged parallel to each other and with spaces between them to form aisles and with the ends of alternate cabinets spaced from the wall or partition of the store, whereby a circuitous path is provided for the passage of customers from the entrance to the exit, one-way turnstiles at the entrance and exit of said passage, and supporting frames for the turnstiles freely movable on the floor, substantially as set forth.

1,397,825. CAR-WHEEL FENDER. JOSEPH F. THOMPSON, Marietta, Ohio. Filed July 11, 1921. Serial No. 483,929. 2 Claims. (Cl. 293—58.)

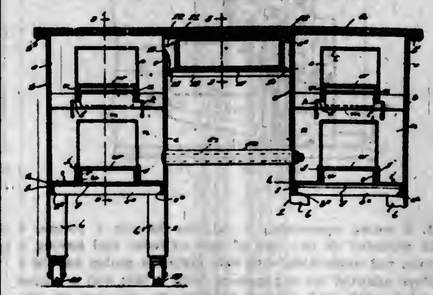


1. A wheel fender comprising an attaching bracket and a fender pivotally connected therewith, including a portion extending alongside the wheel and a portion directed in front of the wheel tread and extending across the track, the lower edge of the fender being disposed in close proximity to the track, and co-acting means between the bracket and fender for automatically lifting the latter when it is swung to inoperative position, whereby it will clear the track sufficiently far to enable free access to the wheel to be had.

1,397,826. EXPLOSIVE. GUILLAUME WIRTH, Hayange, France, assignor to Societe les Petits Fils de Francois De Wendel et Cie., Paris, France. Filed Sept. 27, 1919. Serial No. 326,972. 2 Claims. (Cl. 52—1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. An explosive composed of a mixture of a combustible organic substance capable of absorbing liquid air with a combustible metallic powder in the proportion of less than 150 grams of combustible metallic powder per liter of composition, said mixture being impregnated with liquid air.

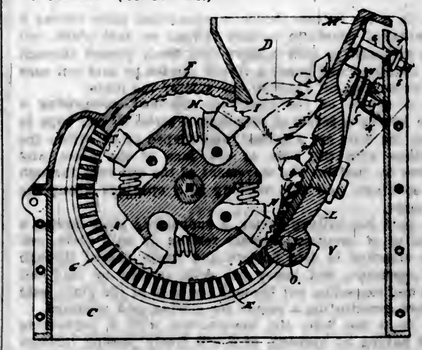
1,397,827. METAL DESK. FRANK P. WILLIAMS and ALLAN MCINTYRE, Detroit, Mich. Filed Nov. 13, 1920. Serial No. 423,856. 11 Claims. (Cl. 45—6.)



1. In a metal desk, the combination of a pair of drawer cabinets of sheet metal having inside walls provided at their tops with lock-seam folds, and a central tie plate provided at its sides with lock-seam folds adapted to lock in the said folds of the inner walls of the cabinets to tie the two cabinets together, said tie plate provided with front and rear flanges, the former provided with an opening, a floor supported on said front and rear flanges, and a drawer running into the opening formed in the front flange.

10. In a sheet metal desk, the combination of drawer cabinets provided along one of the top edges with turned-out lock-seam folds, and a strip of sheet metal having a turned-over lock-seam fold adapted to slide endwise into the folds of the cabinets for locking and assembling the cabinets together, substantially as described.

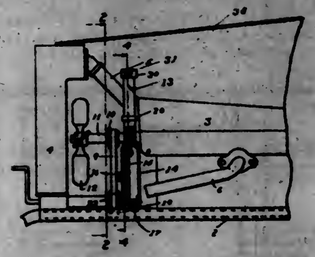
1,397,828. CRUSHER AND PULVERIZER. MILTON F. WILLIAMS, St. Louis, Mo., assignor to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo., a Corporation of Missouri. Filed Aug. 7, 1919. Serial No. 315,893. 9 Claims. (Cl. 83—11.)



1. A machine of the character described comprising a casing having radial slots in its side walls, a rotor, a

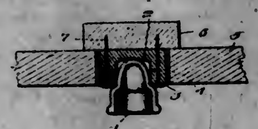
cage, a cushioned breaker plate abutting an edge of said cage, a pivot shaft passing through the lower end of said plate and guided in said radial slots in the casing, means to adjust said shaft radially and secure it in adjusted position, and resilient means for cushioning the upper end of said breaker plate.

1,397,629. AIR-PUMP FOR AUTOMOBILES. William A. Wilson, Minneapolis, Minn. Filed Feb. 25, 1920. Serial No. 361,365. 2 Claims. (Cl. 230—27.)



1. A pump comprising a cylinder having a piston, a gear mounted on one end of said cylinder and having a pitman rod connection with said piston, a pulley having a surface adapted for engagement with a belt and a pinion to mesh with said gear, a support for one end of said cylinder adapted for adjustment for moving said cylinder and pulley transversely of its longitudinal axis, said cylinder having an air intake and valve and a hose coupling and means near the opposite end of said cylinder from said gear and pinion for holding said cylinder in its working position and permitting oscillation thereof.

1,397,830. QUEEN-BEE-REARING DEVICE. William Benjamin Yates, Ventura, Calif. Filed Aug. 30, 1920. Serial No. 406,846. 4 Claims. (Cl. 6—9.)



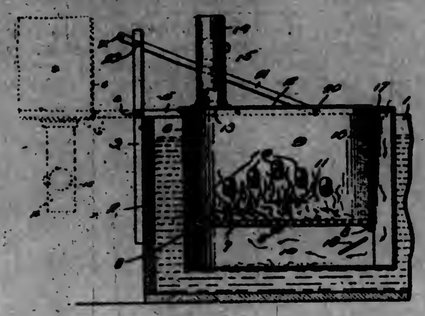
1. In a bee culture device, a supporting plate having a plurality of openings, holders resting on said plate, cell cups attached to said holders and freely passed through said openings, and honey bee cells carried by said cell cups and extending out through one side of the plate.

2. A device of the character specified, comprising a plate having a series of openings, a series of cell cups to which the cells are attached, and shaped to fit within the openings with the cells at one face of the plate, and holders for limiting the movement of the cell cups through the openings, and for covering said openings about the cell cups.

3. In a bee culture device, a supporting plate having a plurality of openings, holders resting on said plate, cell cups attached to said holders and freely passed through said openings, and honey bee cells carried by said cell cups and extending out through one side of the plate, said holders constituting a means for closing said openings.

4. In a bee hive, the combination with a supporting plate having an opening, of a cell freely passing through said opening, and a holder resting upon said plate for supporting the cell and closing said opening.

1,397,831. TANK-HEATER. James H. Arrowsmith, Hastings, Nebr. Filed Mar. 6, 1920. Serial No. 363,389. 5 Claims. (Cl. 126—367.)



2. In a tank heater, the combination of a water containing tank, a heater disposed therein, said heater having heating means therein and water heating tubes extending from side to side of and through said heater, means for pivotally supporting the heater within the tank, and means for swinging the heater outwardly from the tank to an inverted position.

1,397,832. AMUSEMENT APPARATUS. Walter H. Balcom, Winchester, and William A. Ready, Brighton, Mass., assignors to National Company, Boston, Mass., a Corporation of Massachusetts. Filed May 1, 1920. Serial No. 378,118. 14 Claims. (Cl. 46—40.)



1. In combination a horizontal rotary member, a platform located thereabove, a dancing figure positioned above said platform, a vertical reciprocatory member upon which said figure is mounted, mechanism adapted to reciprocate said reciprocatory member, a driving member for said mechanism supported upon said horizontal rotary member and frictional means interposed between said driving member and said horizontal rotary member, whereby said driving member may be frictionally driven, while stationary relatively to said horizontal rotary member.

1,397,833. CATTLE-STANCHION. Daniel B. Coates, Payette, Idaho. Filed June 20, 1921. Serial No. 478,699. 4 Claims. (Cl. 199—140.)

1. A cattle stanchion comprising end members, a side member rigidly connecting the end members, and a second side member pivotally connected to one of the end members to occupy contracted and expanded positions, and means for locking the side member in contracted position comprising a link movable through the side member and pivotally connected to the end member, said link being provided with a flattened portion and said side member with a slot for receiving the flat portion, and a locking



lever pivotally connected to the link at the flat portion and operating to retain the link within the slot and to effect the removal thereof when lifted.

1,397,834. DETACHABLE RUBBER HEEL FOR SHOES. Sam Dow, Boston, Mass. Filed May 26, 1920. Serial No. 384,209. 1 Claim. (Cl. 36—36.)



A heel for boots and shoes having, in combination, a body portion having an uninterrupted flat surface, a dovetailed slide plate with parallel sides fast to the bottom of said body portion, a rubber tread for said heel and an imperforate plate embedded in said tread and locked therein, said rubber forming shoulders at the opposite ends of said imperforate plate and said imperforate plate having a pair of parallel flanges inclined toward each other and adapted to slide upon said slide plate and engage said parallel sides, the upper edges of said flanges being substantially flush with the upper face of said tread, said plates being prevented by the engagement of said shoulders with the opposite ends of said slide plate from relative movement longitudinally thereof when the parts are assembled.

1,397,835. STYLUS-HOLDER FOR PHONOGRAPH-REPRODUCERS. Martin Elmer, Hastings, Mich. Filed June 24, 1921. Serial No. 479,989. 3 Claims. (Cl. 274—37.)



1. A stylus holder comprising a body member with jaws at one side thereof spaced from the body to provide a neck adapted to receive a clamping yoke, a shank adapted to be engaged with a sound box socket, a block of resilient material embedding said shank clamped within said body, a stylus supporting block of resilient material clamped within said jaws, and a clamp having a cam slot therein slidably engaged with the neck of said jaws.

1,397,836. SAND-SETTLER. Ira Anthey Karns, Tulsa, Okla. Filed Apr. 7, 1921. Serial No. 459,498. 3 Claims. (Cl. 103—64.)



1. A sand settler of the class described, comprising in combination, a tubular head adapted to be connected at its one end to the working barrel of a pump, a plurality of telescoping tubes extending from the other end of said head, said tubes being in graduated spaced relation, the greatest space occurring between the outermost tubes, and the innermost tube communicating with the interior of the tubular hood member while the outermost tube has a portion thereof perforated and all the tubes communicating with each other and with the innermost tube at alternate ends.

1,397,837. CHARGE-HUMIDIFYING DEVICE FOR INTERNAL-COMBUSTION ENGINES. Archibald S. Kincaid, Seattle, Wash., assignor to L. L. Patterson, Seattle, Wash. Filed Oct. 6, 1920. Serial No. 415,012. 6 Claims. (Cl. 123—25.)



1. A means for automatically supplying water vapor to internal combustion engines comprising a float chamber, a float therein, a supply valve for said chamber controlled by said float, a vaporising chamber integral with said float chamber and projecting laterally therefrom at an elevation such that a portion only of said vaporizing chamber will be filled with water, said vaporizing chamber having an inlet port from the float chamber below the normal water level, and the vaporising chamber having a discharge port connecting with its top and a

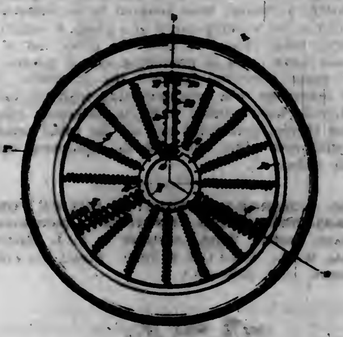
relief port connecting said discharge port and the float chamber above the water level therein, and said float chamber having a vent to the atmosphere above said water level.

1,397,838. OIL-CUP. WILLIAM HENRY LINDENFIELD, Lexington, Tenn. Filed Sept. 30, 1920. Serial No. 413,773. 5 Claims. (Cl. 184—58.)



1. An oil cup having in the top thereof oppositely arranged openings for permitting the insertion of lubricant, and a cover mounted to rotate in the cup and having radial extensions fitting over the openings for closing the same, and releasable locking means between the cup and the cover released by flexible turning of the cover, a valve in connection with the cup for controlling the flow therefrom, said valve passing through the top of the cup and through the cover, a cup shaped member in connection with the outer end of the valve, a spring arranged between the said cup shaped member and the cover and normally pressing the cover to its seat, the valve having a head engaging outside of the cup shaped member, and releasable locking mechanism between the member and the head.

1,397,839. SPRING-WHEEL. JAMES ARTHUR LIVINGS, Spring, Tex. Filed July 31, 1920. Serial No. 400,415. 1 Claim. (Cl. 152—52.)



A wheel comprising, a rim, a hub, coiled springs connecting said rim and hub at regular spaced intervals throughout the circumference of the two, said springs being arranged in pairs and extending radially from the hub, extensible spokes pivotally connecting said rim and hub at intervals of 120° in a manner to prevent lateral movement of the hub with respect to the rim and to permit radial movement of said hub, and coiled springs surrounding said spokes and interposed between said rim and hub.

1,397,840. TEAT-CUP. ARTHUR C. MACARTHUR, Syracuse, N. Y. Filed May 24, 1919. Serial No. 299,440. 2 Claims. (Cl. 31—102.)

1. A teat cup including a casing having an opening in its lower wall, a lining within the casing and a branch pipe connected to the lining and embodying a resilient portion normally of greater diameter than the opening in said casing, said portion seated in said opening and



having a part contracted thereby to form a tight joint between the branch pipe and the casing.

1,397,841. PLOW. VERNICE M. MAYS, Ketchum, Okla. Filed Jan. 3, 1919. Serial No. 269,403. 2 Claims. (Cl. 97—37.)



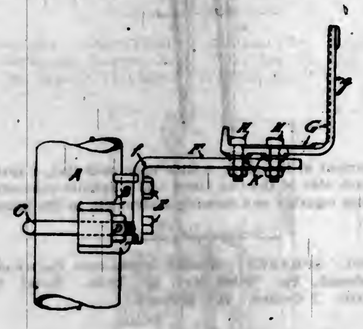
2. A disk plow including shafts arranged at the opposite sides of the center of the plow and at diverging angles with respect thereto, each of said shafts having its inner end arranged at an angle to the body portion thereof, and a series of disks mounted on each shaft, one disk of each series being mounted on the angular end of the shaft in reversed relation with respect to the other of said disk.

1,397,842. METHOD OF MAKING TIRE-CASING FILLERS. FRANK M. NETZEL, Chicago, Ill., assignor to Velvet Rubber Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 21, 1921. Serial No. 453,894. 3 Claims. (Cl. 18—53.)



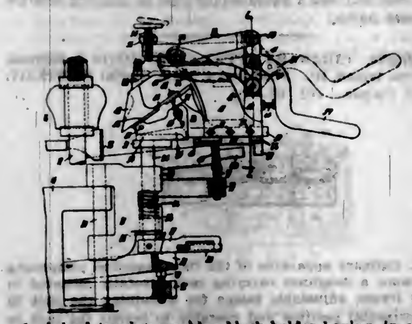
1. The method of making a tire casing filler, composed of a center strip of relatively hard solid rubber and two side strips of more resilient rubber, consisting in, first, making the strips separate, from relatively soft solid rubber and of a shape making the sides of the filler somewhat dished, when the strips are placed together, second, placing the strips together, third, bending the strips while together into annular form and incasing the same in a fabric wrapping, and, fourth, placing the filler in a mold to provide spaces between the sides of the filler and the mold to allow the side strips to expand when the strips are vulcanized together.

1,397,843. SUPPORT FOR SIGNAL-LAMP BRACKETS. FRED RAPP, West Albany, N. Y. Filed July 23, 1921. Serial No. 486,969. 2 Claims. (Cl. 248—20.)



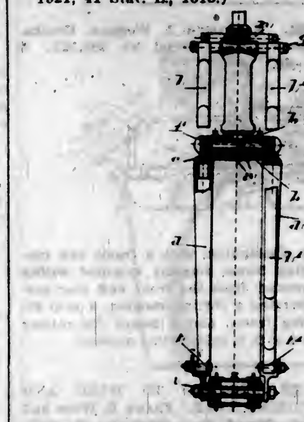
1. In a support for signal lamp brackets, a supporting member one end thereof adapted to be fastened to a standard; bolt holes in said member countersunk as with a spherical reamer; washers shaped as spherical segments and adapted to seat in and project beyond said countersunk holes; and bolts adapted to bind said supporting member and washers firmly to a signal lamp bracket.

1,397,844. HEEL-TURNING-MACHINE BLOCK-HOLDER. JOHN H. VINTON, Keene, N. H., assignor to Baxter D. Whitney & Son, Inc., Winchendon, Mass., a Corporation of Massachusetts. Filed May 20, 1920. Serial No. 382,848. 9 Claims. (Cl. 12—87.)



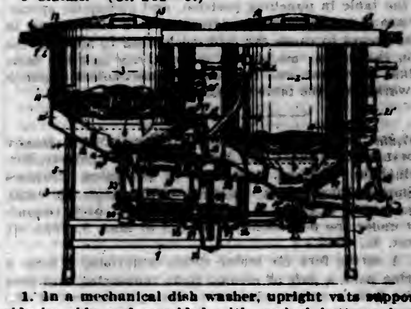
1. A heel turning machine block holder having, in combination, a support for a block, a primary clamping member adapted to engage said block, a pivot for said primary clamping member, and a lever constituting a secondary clamping member and adapted to engage said primary clamping member and cause the same to engage said block and force it against said support, and a toggle device connected to said secondary clamping member and adapted to cause the same to engage said primary clamping member and lock said primary and said secondary clamping members in position with said block clamped against said support.

1,397,845. COMPENSATING-SPRING FOR THE FRONT FORK OF MOTORCYCLES. MARCEL NARCISSE VIRATELLE, Villeurbanne, Rhône, France. Filed Aug. 24, 1921. Serial No. 496,081. 1 Claim. (Cl. 280—97.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



An arrangement of compensating springs for the forks of motor cycles comprising two multiple laminated springs mounted in front of the front wheel of the motor cycle, one corresponding to each of the members of the fork, the lower ends of the springs being affixed to the lower ends of the corresponding members of the fork and the upper ends pivoting, by means of a pair of side cheeks, about a shaft rotating about a collar affixed to the steering column, the springs being connected also, between the two points of attachment, to the ends of intermediate articulation levers rigidly connected together, and connected to the head of the fork carrying the fork members and pivoting about the shaft at the end of the steering column, the attachment of the springs to these intermediate articulation levers dividing the springs into two parts of unequal length, a longer lower part and a shorter upper part, the whole being arranged in such a manner that if the front wheel of the motor cycle is lifted suddenly by any obstacle, the fork will be projected frontward, causing the short part of the springs to be straightened, and the longer lower part to be compressed on account of the play of the intermediate articulation so that the springs, under the double action of their deformation, will cause the whole arrangement to return to its normal position of equilibrium, substantially as described.

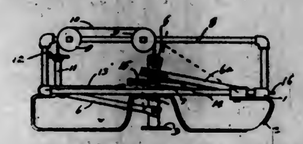
1,397,846. DISH-WASHING MACHINE. WILLARD R. WALKER, Syracuse, N. Y., assignor to The Walker Brothers Company, Syracuse, N. Y., a Corporation of New York. Filed Aug. 13, 1918. Serial No. 249,845. 6 Claims. (Cl. 141—9.)



1. In a mechanical dish washer, upright vats supported side by side and provided with conical bottoms having

their apexes disposed in planes one above the other, a drainage conduit leading from the higher apex into the conical bottom of the other vat, and an overflow pipe leading from the vat having the higher conical bottom into said drainage conduit.

1,397,847. WEEDER. ELSWORTH J. WONSER, Eureka, Wash. Filed June 1, 1920. Serial No. 385,523. 3 Claims. (Cl. 55—60.)



1. In a weeder, in combination with a frame and runners thereof, a cutting frame hingedly mounted within said frame and suspended from the front and rear portions thereof, and carrying a cutting member, a stop attached to said cutting frame, and a means for raising said cutting frame and with it said cutting member.

1,397,848. ARTICLES SECURED TO WIRE AND METHOD OF SECURING SAME. FRANK E. WOOD and CLARENCE G. WOOD, Girard, Pa. Filed Oct. 1, 1919. Serial No. 327,656. 7 Claims. (Cl. 29—148.)



1. An article of manufacture comprising a wire; and a plate secured on the wire, the portion of the wire within the plate having a distorted cross section, and portions of the wire being swaged out and against the sides of the plate.

1,397,849. SHEET SPACING AND PUNCHING MACHINE. NORMAN E. WOODS, Paterson, N. J., assignor to Walter H. Foster, New York, N. Y. Filed Feb. 28, 1920. Serial No. 361,915. 31 Claims. (Cl. 164—117.)



1. In a spacing and punching machine, a traveling table to support the work, punching mechanism, feed mechanism for advancing the table by a step by step motion to successive punching positions, a locking mechanism for locking the table in punching position, and automatic operating means for successively actuating said mechanisms in timed accord to cause the feed mechanism to advance the table, the locking mechanism to positively lock the table against movement, and the punching mechanism to punch the work while the table is held locked.

1,397,850. SPRING-FORK FOR MOTORCYCLES. HENRY SMALLWOOD YOXALL and JOHN JAMES RICHARDSON, Birmingham, England, assignors to Brampton Brothers Limited, Birmingham, England. Filed Sept. 30, 1920. Serial No. 413,878. 9 Claims. (Cl. 208—97.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. A spring fork for motor cycles comprising a fork, a steering post, a pair of pivoted links connecting said post to the fork, a spring adapted to resist movement of the links about their pivots, a pair of resilient links connecting said post to the fork, each link of said pair having means for attaching it to the steering post upon one end and



an abutment at the other, a slide upon each link, a spring upon each side of the two slides and a spindle connecting the slides together and forming a pivot pin in the linkage system.

1,397,851. SPRAYER. ROBERT ALEXANDER BACHMANN, Pittsburgh, Pa. Filed Nov. 29, 1920. Serial No. 427,040. 7 Claims. (Cl. 299—88.)



1. A sheet metal sprayer comprising a triangular reservoir an air pump whose ends are formed by the ends of the reservoir and a liquid supply pipe in spraying relation to said pump.

1,397,852. CULINARY APPARATUS. DAVID G. BENDER, Blue Island, Ill. Filed Dec. 4, 1919. Serial No. 342,517. 13 Claims. (Cl. 53—7.)



2. Culinary apparatus of the class described comprising a frame, a doughnut carrying rack pivotally mounted in said frame, adjustable means for sustaining the rack in a horizontal position and operable to permit the rack to swing about its axis, and turning means connected to the rack for rotating the same.

1,397,853. BINDER ATTACHMENT FOR SEWING-MACHINES. JOHN F. BENDER and JACOB MARCUS, Brooklyn, N. Y. Filed Mar. 4, 1920. Serial No. 363,259. 19 Claims. (Cl. 112—188.)

1. In combination a folding plate; and a removable guide member free of attachment to other structure and constructed and positioned to be loosely held on said plate

in operative holding position by material passing between the plate and guide member.



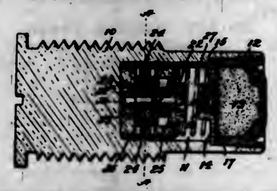
9. In combination, a folding plate formed with a flat receiving face, an axial rib merging into said face, and side flanges provided with inwardly folded lips extending to near the rib; and a guide-tongue conforming to the shape of the rib and held near thereto by said lips.

1,397,854. REGISTERING APPARATUS. WILLIAM H. BYWATER, Trenton, N. J. Filed Jan. 15, 1920. Serial No. 351,524. 3 Claims. (Cl. 235—93.)



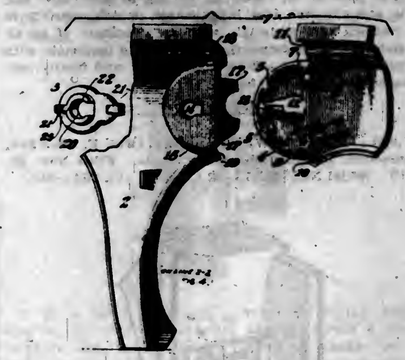
1. Register operating apparatus comprising a turnstile positioned to block and open two passageways, and supplementary means for blocking said passageways alternately at will for converting said apparatus into either an entrance or exit registering apparatus.

1,397,855. PERCUSSION-FUSE. ROBERT RAYMOND CAREY, Phillipsburg, N. J., and WILLIAM L. LUKENS and LEIGHTON N. D. MIXSELL, Bethlehem, Pa., assignors to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Aug. 19, 1918. Serial No. 250,566. 7 Claims. (Cl. 102—39.)



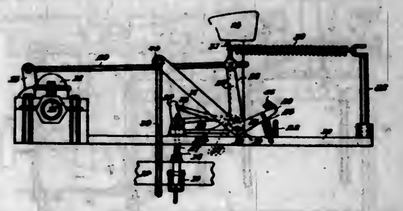
1. In a fuse for projectiles, a hammer comprising a cylindrical body, a centrally arranged firing pin fixed to the body and an annular guard surrounding the forward end of the firing pin and movable in a cavity in the hammer body to protect or expose the point of the pin, in combination with a bolt operating in a radial opening in the hammer body and normally arranged in the rear of the guard to hold it in protecting position, a fixed closure movable with said body for the outer end of said opening, said bolt being movable under the influence of centrifugal force to free the guard and permit it to expose the point of the pin.

1,397,856. STOVE OR RANGE. CHARLES D. CARTER, New York, N. Y., assignor to The Floyd-Wells Co., Boyertsford, Pa., a Corporation of Pennsylvania. Filed June 25, 1920. Serial No. 391,703. 3 Claims. (Cl. 126—304.)



1. The combination with a skirt base and leg having interlocking portions to aline them with respect to each other, to form a flush joint, the leg having a key-shaped aperture, the skirt base having a rearwardly extending post terminating in a key-shaped lug to pass through said aperture, of a locking member having a key-shaped aperture to adapt it to pass over the lug of the post and provided with a cam face to engage said lug, whereby when said locking member is turned the skirt base and leg will be locked together.

1,397,857. AUTOMATIC TRIP MECHANISM. ELMER A. CLARK, Joliet, Ill. Filed Jan. 30, 1919. Serial No. 274,138. 4 Claims. (Cl. 137—139.)

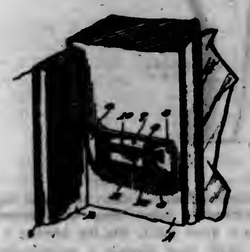


1. Automatic trip mechanism comprising an operating rod, a latch attached to said rod, an anchored spring for said latch adapted for holding the rod in its normal position, a hook lever adapted for restrainingly engaging said latch when the rod is in a shifted position with the spring under tension, a weight actuated trip lever operatively associated with said hook lever, means adapted for engaging said trip lever at a predetermined time whereby the trip lever is over-balanced for shifting and releasing the hook lever for the return of the operating rod to its normal inoperative position, a pivoted set lever, a pull member attached to one end of the set lever, an off-set at the other end of the set lever adapted for engaging and shifting the trip lever and latch to their set positions upon the movement of the set lever and means adapted to automatically return the set lever to its normal position when released.

1,397,858. FIREPROOFING OF TEXTILE FABRICS AND OTHER POROUS ARTICLES. THOMAS JOHN IRELAND CRAIG, Manchester, England, assignor of one-half to Whipp Bros. & Tod, Limited, Manchester, England. Filed Oct. 30, 1917. Serial No. 199,260. 18 Claims. (Cl. 23—5.)

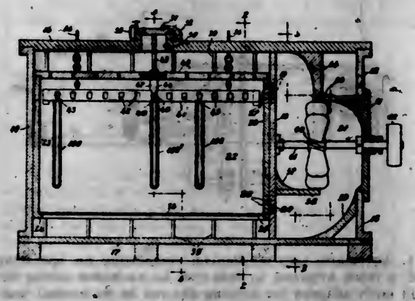
1. The process of rendering fibrous or absorbent materials and the like less inflammable, which consists in first treating said materials with an aluminate of an alkali metal, then subsequently treating said materials with a solution containing sodium bicarbonate, and finally subjecting said materials to heat.

1,397,859. WINDOW-WEDGE. BENJAMIN F. DICKENS, Vancouver, British Columbia, Canada. Filed Nov. 25, 1919. Serial No. 340,513. 2 Claims. (Cl. 292—342.)



1. In a window wedge, the combination of an attaching plate, and a wedge plate slidably carried by said attaching plate and being bent near one end oppositely from its attaching plate and then bent forwardly and toward the plane of the attaching plate to form an inclined wedge surface.

1,397,860. DYEING-MACHINE. HOWARD M. DUDLEY, Philadelphia, Pa. Filed Nov. 21, 1919. Serial No. 339,659. 3 Claims. (Cl. 8—19.)



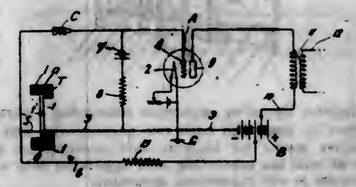
1. In a dyeing machine, in combination, a closed receptacle, a dyeing chamber within the receptacle and spaced therefrom, the dyeing chamber having a foraminous top and a foraminous bottom, a propeller chamber connecting the upper and lower chambers formed by the tops and bottoms of the receptacle and the dyeing chamber, a revolvable propeller within the propeller chamber, a series of openings connecting the side chambers formed by the sides of the dyeing chamber and the receptacle with the lower portion of the propeller chamber and a series of openings connecting the side chambers formed by the sides of the dyeing chamber and the receptacle with the upper portion of the propeller chamber.

1,397,861. IGNITION APPARATUS FOR INTERNAL-COMBUSTION ENGINES. AUGUSTE DUBREUIL, Paris, France, assignor to Societe Anonyme pour L'Equipment Electrique des Vehicules, Issy les Moulineaux, France, a Corporation of France. Filed Apr. 16, 1919. Serial No. 290,548. 4 Claims. (Cl. 294—16.)



1. In a combined coupling and speed governing mechanism for magneto shafts and the like, comprising a driving shaft, a driven shaft, complementary disks carried by each shaft, resilient connections between said disks and weighted means carried by said resilient connections adapted to form a centrifugal governor for controlling the relative positions of said shafts.

1,397,862. TRANSMISSION SYSTEM. ALBERT L. FITCH, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 26, 1917. Serial No. 203,949. Renewed Dec. 26, 1918. Serial No. 268,420. 17 Claims. (Cl. 179—171.)



2. In combination, a condenser transmitter with an electron discharge device, one terminal of the transmitter being permanently at ground potential and a source of electromotive force common to a circuit through the condenser transmitter and the output circuit of said device.

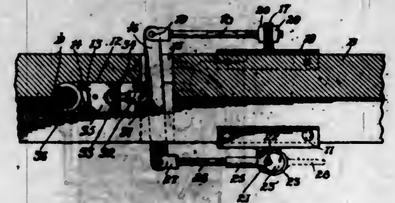
1,397,863. TRUSS. LOUIS D. GANDON, San Francisco, Calif. Filed Aug. 4, 1920. Serial No. 401,227. 3 Claims. (Cl. 128—121.)



1. In a truss, the combination with a pad carrying block having a belt secured thereto of means for detachably connecting the other extremity of the belt with the block, comprising, a cut-away portion therein leaving an exposed side wall; and an engaging member adapted to parallel and frictionally contact with said side wall.

1,397,864. SAFETY-KEY FOR DRILLING-RIGS. EVAN J. GRIFFITH, Riverton, Wyo. Filed June 1, 1920. Serial No. 385,727. 5 Claims. (Cl. 287—93.)

1. The combination with an engine drive shaft including a crank pin, of a pitman rod having a longitudinally extending slot therein arranged to receive the crank pin, a block slidably mounted in the longitudinally extending slot, a cross lever pivotally connected to said block,



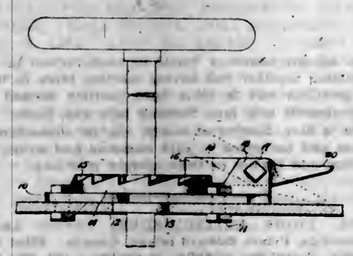
bearing brackets secured to the opposite sides of the pitman, means adjustably connecting the cross lever with the bearing brackets, and an operating lever for swinging said cross lever toward and away from said pin.

1,397,865. MEASURING APPARATUS FOR CORSETS. LENA C. HILLIARD, Boston, Mass. Filed May 27, 1918. Serial No. 236,668. 5 Claims. (Cl. 33—15.)



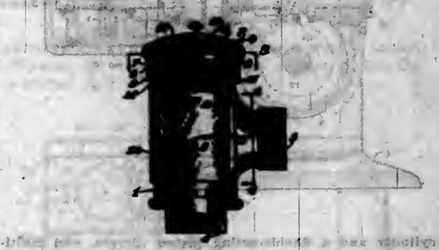
1. A measuring apparatus for corsets comprising a skeleton corset having, in combination, a series of vertical, flexible, resilient members and a series of horizontal, flexible, non-resilient members connecting said vertical members together.

1,397,866. BRAKE-HOLDING DEVICE. ROBERT L. JAMES, Birmingham, Ala. Filed Mar. 9, 1921. Serial No. 450,904. 5 Claims. (Cl. 74—118.)



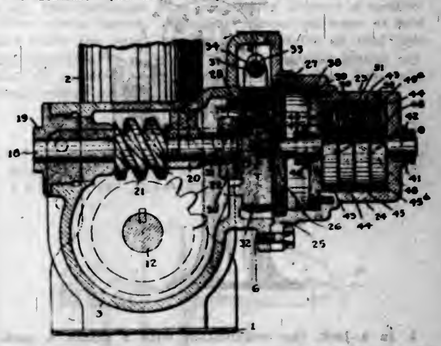
1. A brake locking device comprising a rotatable pinion, a pivoted dog adapted to seat itself by gravity in the successive notches of the ratchet pinion, said dog being located substantially radial to the axis of rotation of said ratchet pinion, the said dog being located between a pair of stationary lugs, the one of said lugs which receives the thrust of the dog being of sufficient length to reach nearly into contact with the periphery of said ratchet pinion.

1,397,867. VALVE. THOMAS G. JONES, Philadelphia, Pa. Filed May 28, 1920. Serial No. 384,446. 6 Claims. (Cl. 251—62.)



3. In a valve, a casing, a rotatable hollow member therein, the side of the latter having therein a port of variable size, a cup on said casing, a washer on said cup, a bolt in said washer adapted to pass through said cup and the top of said casing and connectible with said member, and an adjusting device on said bolt adapted to be seated on said washer.

1,397,868. SELF-LOWERING JACK. JOHN C. KOFF, Bellevue borough, Pa., assignor to The Duff Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 4, 1921. Serial No. 442,866. 7 Claims. (Cl. 254—103.)

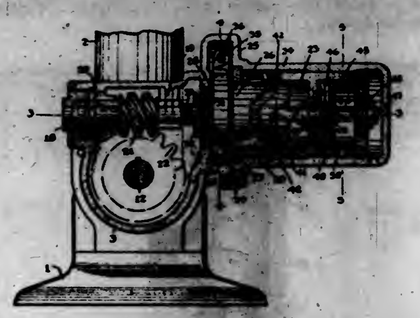


1. In a self-lowering jack, a base and a vertically movable load member, vertical screw means for lifting comprising a screw which is rotated in one direction to effect lifting and in the opposite direction by the action of the load in lowering, manually releasable means automatically operative to hold the load member, and a closed rotary liquid-retarding device operatively connected with the screw.

1,397,869. SELF-LOWERING JACK. JOHN C. KOFF, Bellevue borough, Pa., assignor to The Duff Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 4, 1921. Serial No. 442,867. 9 Claims. (Cl. 254—103.)

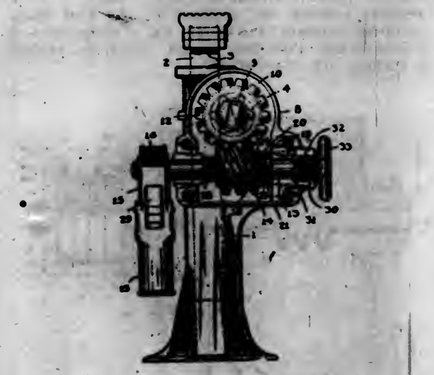
1. A self-lowering jack, having a base and a vertically movable load member, vertical screw means for lifting comprising a screw which is rotated in one direction to effect lifting and in the opposite direction by the action

of the load in lowering, and a holding device, in combination with a fluid-retarding device comprising a closed



cylinder and a double-acting piston therein, and multiplying connections effective in lowering from the screw to said device.

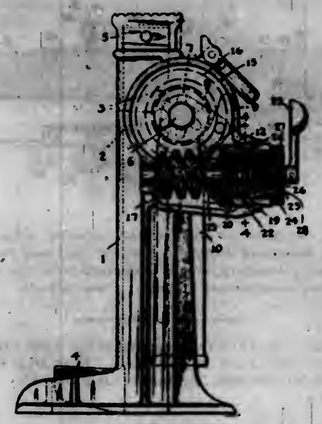
1,397,870. LIFTING-JACK. JOHN C. KOPP, Bellevue borough, Pa., assignor to The Duff Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 4, 1921. Serial No. 442,568. 2 Claims. (Cl. 254—97.)



1. In a jack, the combination with a frame, a rack-bar, a pinion meshing with the rack-bar, a worm-wheel on the axis of the pinion, an operting shaft, and a worm on the operating shaft meshing the worm-wheel, said worm and worm-wheel of steep pitch, of means for actuating said worm shaft to lift the load, a friction-holding device actuated by the end-thrust of the worm, and means for relieving the end-thrust pressure in said holding device to let the rack-bar run down by gravity.

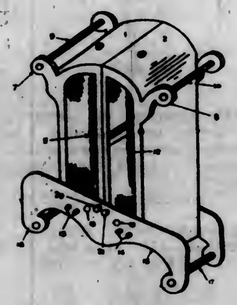
1,397,871. JACK. JOHN C. KOPP, Bellevue borough, Pa., assignor to The Duff Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 18, 1921. Serial No. 445,981. 3 Claims. (Cl. 254—97.)

1. A jack comprising the combination of a stand, a rack-toothed jack-bar, an operating shaft journaled in the stand bearing a pinion meshing the teeth of the jack-bar, ratchet-lever operating means on the outer end of said shaft, a worm-wheel also on the shaft, a worm meshing with the worm-wheel and adapted to be driven



thereby, a frictional holding device applied by the end-thrust of said worm, and means for releasing the holding device.

1,397,872. ELECTRIC HEATER. JOSEPH LAVOIE, Montreal, Quebec, Canada. Filed Nov. 26, 1919. Serial No. 340,959. 1 Claim. (Cl. 219—34.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



In an electric heater, a frame or shell formed in two parts folding together and having meeting faces in their closed positions and in their open position formed for cooking utensils and lugs forming legs and fender rail supports, a base, heating elements, electric connectors in said base and connected to said elements and means for supporting said frames in their upright positions.

1,397,873. LIGHT-EXTINGUISHER. DENTON LEARD, Summerside, Prince Edward Island, Canada. Filed Apr. 2, 1920. Serial No. 370,873. 2 Claims. (Cl. 67—78.)

1. A light extinguisher comprising a base, an arm pivotally connected to the base, means for raising the arm, a light extinguishing member connected to the arm, means engaging said light extinguishing member for holding the same in raised position, and a spring bale secured to the base beneath the arm so as to act as a buffer



for engaging the arm before extinguishing member engages the light to be extinguished.

1,397,874. METHOD OF MAKING BAG-TOPS. SAHATIEL G. MANDALIAN, North Attleboro, Mass. Filed Jan. 3, 1921. Serial No. 434,773. 1 Claim. (Cl. 29—148.)



A method of making ornamental bag tops of the character described consisting of impressing an ornament upon the major portion of the width of one face of an oblong blank, forming a longitudinal groove in an intermediate portion of the opposite face of the blank, next bending the blank along the groove to form longitudinal sections disposed angularly to each other, next cutting transverse grooves in one section each side its center and cutting away angular portions of the other section in alinement with the last mentioned grooves, next bending the blank along the transverse grooves, and finally pivotally connecting two such bent blanks.

1,397,875. PROCESS FOR DEGUMMING TEXTILE FIBERS. JACOB MEISTER, Basel, Switzerland. Filed Aug. 3, 1914. Serial No. 854,862. 2 Claims. (Cl. 8—2.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. Process for degumming textile fibers through the action of enzymotic substances which comprises preliminarily treating the fibrous material in a diluted alkaline bath containing borax and ammonia, and then treating said material in a second bath at a moderate temperature with an ammoniacal enzymotic solution which contains borax and sodium chlorid, the material finally rinsed.

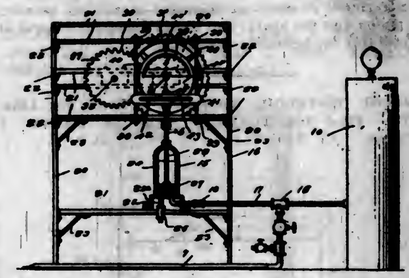
1,397,876. NUT, BOLT, SCREW, AND THE LIKE. EDWARD MELDAL, London, England. Filed Aug. 31, 1920. Serial No. 407,190. 3 Claims. (Cl. 85—32.)

1. An article of manufacture of the character described embodying therein a base of any desired contour, a central boss extending from and integral with said base and a plurality of radial projections extending from



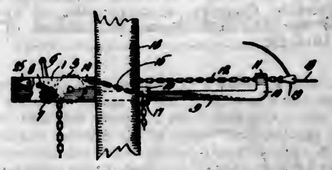
said boss and integral both with the latter and the base, each of said projections having oppositely disposed parallel faces.

1,397,877. COMPRESSED-AIR PUMP. WILLIS MILAM, Winston, Ga. Filed Nov. 26, 1919. Serial No. 340,7[illegible]. 1 Claim. (Cl. 230—27.)



A pump operating means comprising vertical uprights, side members connecting said uprights, longitudinally extending bars secured to the uprights and the side members and some of said bars arranged in a plane with each other and the other bars arranged one above the other, the lowermost bars adapted to support a reciprocating pump, vertical guide rods connecting some of said bars above the pump, a cross head slidable on said rods and connected to the pump, and a rotatable means carried by some of said bars and adapted to impart a reciprocatory movement to the cross head.

1,397,878. WIRE-STRETCHER. JACK NIEMELA, Fort Bragg, Calif. Filed May 17, 1921. Serial No. 470,297. 4 Claims. (Cl. 254—162.)

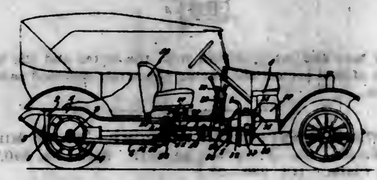


1. In combination with a wire stretcher of means for attaching same to a fence post, said means including a rod extending from the wire stretcher, an eye positioned on the wire stretcher, a chain attached to said eye, a slidable block mounted on the rod, a hook extending from the block and adapted to be engaged by the links of the chain.

1,397,879. ATTACHMENT FOR AUTOMOBILES. WILLIAM F. PILLMORE, Westernville, N. Y. Filed Apr. 6, 1921. Serial No. 459,126. 3 Claims. (Cl. 180—54.)

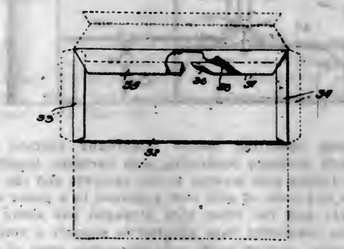
3. In a device of the class described, a vehicle body mounted for vertical movement; a running gear; a lever fulcrumed on the running gear; means for connecting the lever with the vehicle body; a guide on the vehicle body; a slide mounted to reciprocate in the guide and

provided with a rack; means for connecting the slide with the lever; a shaft journaled for rotation in the guide; a pinion loose on the shaft and meshing into the rack



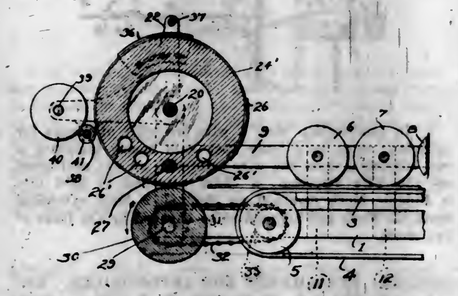
bar; a clutch forming an operative connection between the pinion and the shaft; and means under the control of an operator for actuating the clutch.

1,397,880. ENVELOP. GEORGE A. SANBORN, Fox Lake, Wis. Filed Jan. 31, 1921. Serial No. 441,374. 3 Claims. (Cl. 229—73.)



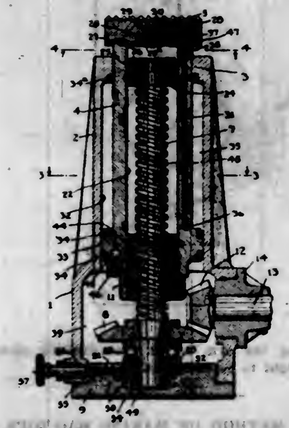
1. An envelop comprising, in combination, a pocket, a flap formed of two thicknesses of material integral at the free edge of the flap, and adhesive on each of the surfaces of said material which face toward the body when the flap is in operative position.

1,397,881. BOX-PRINTING MACHINE. MAX A. SCHMIDT, San Francisco, Calif., assignor to Schmidt Lithograph Company, a Corporation of California. Filed Apr. 14, 1920. Serial No. 373,772. 6 Claims. (Cl. 101—232.)



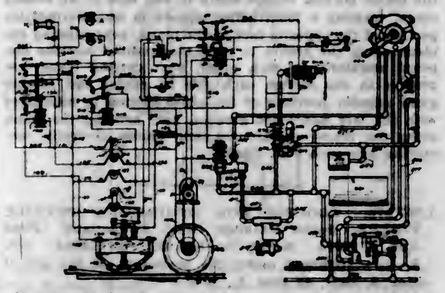
1. A box printing machine comprising a support, a freely swinging printing roll, a printing plate thereon, means to ink the printing plate, means to feed independent sheets to the printing roll and a driven roll below the printing roll to pass the boxes under the printing roll.

1,397,882. SELF-LOWERING JACK. FRANK H. SCHWARTZ, Westview borough, Pa., assignor to The Duff Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 4, 1921. Serial No. 442,361. 13 Claims. (Cl. 254—103.)



1. A self-lowering pack having closed base and load members, steep-pitch screw mechanism acting between said members to effect lifting, a hydraulic holding cylinder having its relatively movable parts on the respective jack members, and means for opening and closing an outlet from said cylinder chamber to effect lowering and holding of the load, in combination with means comprising relatively movable pump cylinder parts also on the respective jacket members for supplying the holding cylinder chamber with liquid.

1,397,883. SIGNAL SYSTEM FOR RAILWAYS. CLINTON F. SHADLE, Indianapolis, Ind., assignor to Shadle Automatic Train Signal Company. Filed Oct. 8, 1919. Serial No. 329,364. 30 Claims. (Cl. 246—45.)



13. In a system of the character described, the combination, with air brake mechanism of automatic control means for automatic graduated air reduction from the equalizing reservoir of the air brake system to cause the equalizing piston in the engineer's automatic brake valve to raise and unseat its valve allowing brake pipe air to flow to the atmosphere gradually to cause a service application of the brakes on locomotive and train.

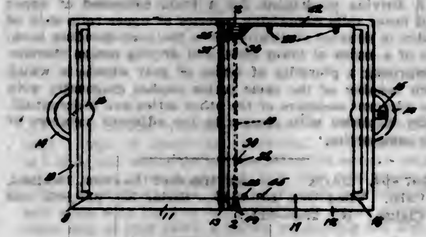
1,397,884. WRENCH. NELSON K. SMITH, Dallas, Tex. Filed Dec. 27, 1920. Serial No. 433,207. 8 Claims. (Cl. 81—94.)

8. In a wrench, a shank having a fixed jaw at one end, a sliding jaw adjustable longitudinally of the shank, said sliding jaw being fulcrumed intermediate its forward and rear ends on one edge of the shank, and means engaging the sliding jaw at a point off-set longitudinally of



the shank from the fulcrum point of said jaw for displacing the jaw from the shank and swinging it on its fulcrum toward the fixed jaw and positively holding the sliding jaw in the adjusted position.

1,397,885. MUSIC TURNER AND CARRIER. WILLIAM L. STEVENS, Minneapolis, Minn. Filed Jan. 31, 1920. Serial No. 355,906. 3 Claims. (Cl. 84—487.)



1. In a music turner, a tubular spindle housing, a shaft rotatable therein and provided with a worm thread, a releasable pin engaging the groove of said thread, a cross pin at the upper end of the spindle, a series of turning arms having hubs at different elevations and provided with grooves for successive engagement by said pin as the spindle is elevated, said spindle when turned being elevated by said thread groove, a motor with which said spindle is operatively connected and keyed for sliding movement to permit elevation thereof, means to impart intermittent rotation to the spindle in either direction, and means to return said arms after the same have been turned to one side.

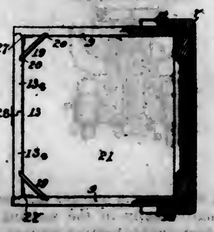
1,397,886. WASHING-MACHINE. JOSEPH VINCENT, Fresno, Calif. Filed Apr. 30, 1919. Serial No. 293,807. 1 Claim. (Cl. 68—21.)

In a washing machine the combination of a rectangular box, two swinging members within the box each of said swinging members being constructed with a rigid back and two flanges along opposite edges of, and on the same side of the back and set at obtuse angles thereto one of said flanges on each swinging member being pivoted to the bottom of the box and on opposite sides, so that they can



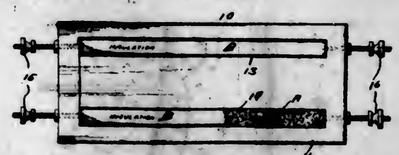
swing toward and from each other on their pivots, and weights attached to said swinging members adjacent to the edges opposite the pivots, substantially as described.

1,397,887. BIN STRUCTURE. EDWIN J. WALKER, JR., Penn Yan, N. Y. Filed Mar. 7, 1919. Serial No. 281,180. 11 Claims. (Cl. 211—6.)



4. A bin structure having a front portion, sides and back portions jointedly connected together and the side portions secured to the front portion, a bottom board fitted to the inner faces of the side portions and underlapping the back and front portions.

1,397,888. BELL-RINGER RESISTANCE UNIT. JACOB CHODROW, Buffalo, N. Y. Filed Feb. 4, 1921. Serial No. 442,524. 7 Claims. (Cl. 219—63.)



1. A resistance unit comprising a base member of insulating material having a longitudinal channel therein, conductor terminals extending from each end of the channel, resistance material in the space between said terminals in the channel, and means extending over the resistance material longitudinally of the channel for holding the resistance material therein.

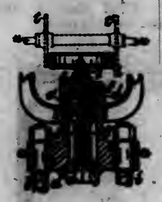
1,397,889. CAR-CHECK HOLDER. EMIL M. HENNEKE, Springfield, Ill. Filed Dec. 31, 1920. Serial No. 434,216. 5 Claims. (Cl. 133—5.)



1. In a car check holder of the character described, having a slotted metallic discharge plunger, a metallic

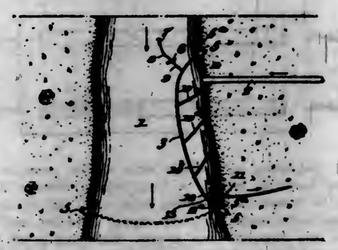
cylindrical casing and a thumb latch button, a resilient strip mounted on the outside and near the open end of a metallic cylindrical casing, said resilient strip being adapted to automatically retract said discharge plunger; means connecting said resilient strip with said discharge plunger abd means for detachably engaging said resilient strip with said casing when not in use; said resilient strip having a short longitudinal slot therein and parallel wire springs securely attached thereto near the operative end thereof and having its slotted end turned to form a hinge loop therein, as and for the purpose set forth.

1,397,890. POWER-DRIVEN PRESS. EDWARD JOHNSON, Burslem, Stoke-upon-Trent, England. Filed Jan. 4, 1921. Serial No. 435,004. 3 Claims. (Cl. 25—45.)



1. In a press, a housing, a plunger for operating a press tool slidable longitudinally in the housing and provided with a guide, a contractible bearing secured to the housing and engaging with the said guide and preventing it and the plunger from revolving, and means for sliding the said plunger in the housing.

1,397,891. OIL-TRAP. ROBERT P. JONES, Port Arthur, Tex. Filed Mar. 19, 1921. Serial No. 453,686. 25 Claims. (Cl. 210—51.)



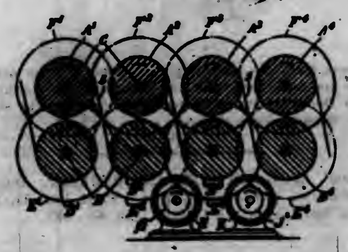
1. An oil trap comprising a plurality of float members capable of floating on water and arranged end to end, connective means securing said float members in position end to end and providing for lateral movement of said float members, and a substantially vertically extending flexible curtain substantially impervious to liquids connected to adjacent float members.

1,397,892. OIL-TRAP. ROBERT P. JONES, Port Arthur, Tex. Filed Mar. 19, 1921. Serial No. 453,689. 6 Claims. (Cl. 210—51.)

1. An oil trap comprising a plurality of elongated float members capable of floating on water and arranged end to end, connective hinge means secured to adjacent ends of said float members and permitting angular movement of said members with respect to each other and preventing relative rotation, and a flexible curtain connected to adjacent float members and extending therebetween and substantially vertically.

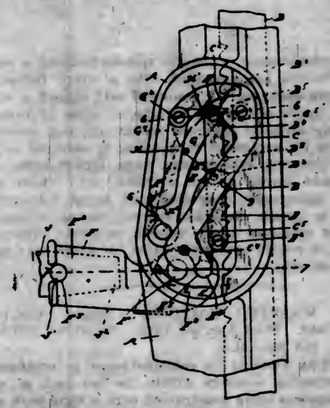


1,397,893. DRIVING-GEAR ESPECIALLY FOR GROUPS OF ROLLS. HARRY KAY, Bury, England. Filed Oct. 12, 1920. Serial No. 416,363. 8 Claims. (Cl. 74—7.)



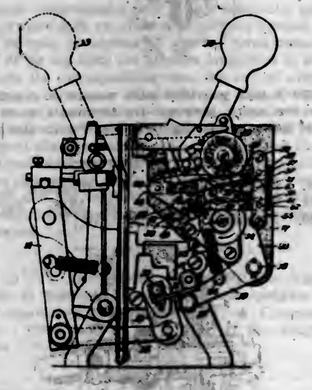
1. Driving mechanism for a train composed of upper and lower rolls comprising a series of upper rolls each of which is situated vertically above the corresponding member of a series of lower rolls, and driving means therefor comprising a plurality of series of gear wheels in which each member of the same series meshes diagonally with the adjacent members of the other series and is longitudinally displaced with respect to the adjacent members of the same series.

1,397,894. JACK. SAMUEL HERBERT LANYON, Oakland, Calif. Filed Oct. 15, 1919. Serial No. 330,891. 10 Claims. (Cl. 254—111.)



1. In a jack, the combination with a notched lifting bar, of holding and moving pawls, engageable with the notches in said bar, springs normally forcing said pawls into engagement with the notches, and means dependent upon the position of said moving pawl for reversing the action of said springs to eject said pawls out of engagement with the notches.

1,397,895. RIBBON-REVERSING MECHANISM FOR TIME-RECORDING REGISTERS. HORACE B. MCCABE, Madison, Wis., assignor to Gisholt Machine Company, Madison, Wis., a Corporation of Wisconsin. Filed Oct. 1, 1920. Serial No. 414,073. 6 Claims. (Cl. 197—160.)



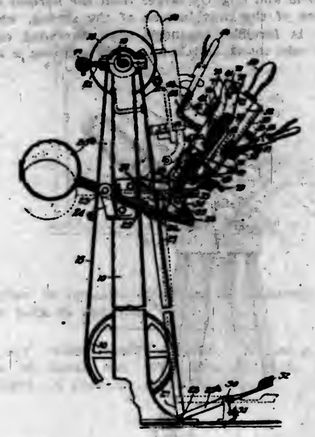
1. In a ribbon reversing mechanism, the combination with a pair of spools and actuating ratchets therefor, of a slide and means for reciprocating the same, a ratchet-driving pawl pivoted on said slide and engageable with either of said ratchets, a pawl-shifting arm pivoted on said slide with its free end adapted to swing across the pivot axis of said pawl, a spring connecting the free end of said arm to said pawl, and means controlled by the rolls of ribbon on said spools for swinging said arm.

1,397,896. BLOOD-COAGULATION MEDIUM. CLARENCE A. MILLS, Cincinnati, Ohio. Filed May 6, 1920. Serial No. 379,404. 5 Claims. (Cl. 167—7.)

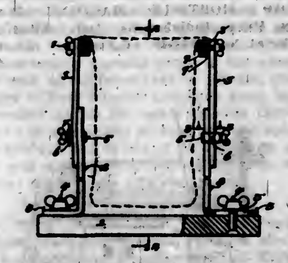
1. A blood coagulant which comprises a protein, phospho-lipin compound having the distinctive quality over related globulins of precipitating from solution upon making of the same weakly acid.

1,397,897. HEEL-BREASTING MACHINE. HOWARD B. MUNSON, St. Louis, Mo., assignor of one-half to Wilder and Company, Chicago, Ill., a Corporation of Illinois. Filed June 1, 1920. Serial No. 385,695. 18 Claims. (Cl. 12—47.)

1. In a heel-breasting machine, the combination of a cutter, a holder for a heel-blank to be breasted disassembled from the remainder of a shoe and supported to be movable in a direction to move that portion of the heel-blank which is to be breasted, into contact with, and across, said cutter, and means for causing said holder, in said movement, to travel in a predetermined path comprising guide means adjustable to vary the shape of the breast of the heel in the direction of its height produced by the breasting operation.



1,397,898. BAG-HOLDER. JAMES BENNETT O'BRIEN, Hartford, Wis. Filed Apr. 19, 1920. Serial No. 374,950. 1 Claim. (Cl. 83—26.)

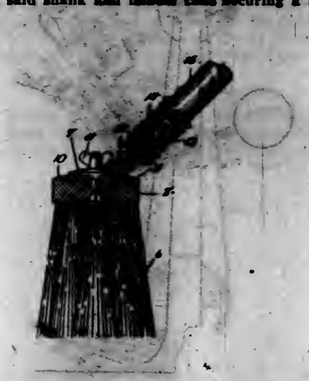


In a bag holder having a base, a companion pair of vertically disposed adjustable standards mounted thereon, means for horizontally adjusting the standards upon the base whereby varying widths of bags may be fitted therebetween; the combination of means for supporting the mouth of bags of various sizes including like series of different length spreader-arms in pivotal union with each standard adapted to be selectively shifted to operative position for holding the mouths of bags of different sizes fully open, the spreader-arms not in use being swung to an inactive position.

1,397,899. BRUSH-HANDLE CONNECTION. JOHN FREDERICK PALMER, Milwaukee, Wis. Filed Nov. 11, 1919. Serial No. 337,135. 1 Claim. (Cl. 306—20.)

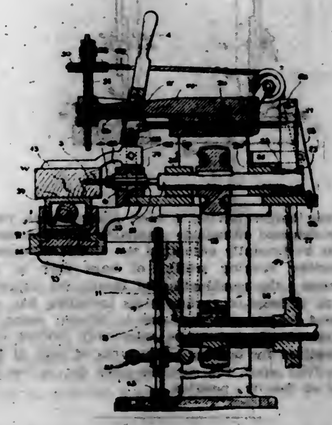
A brush handle connection comprising an attaching head, a shank extended therefrom and provided with a series of screw threads, a helical coil spring having its convolutions at one end portion engaged with the threads

of the shank, a handle having its inner end portion provided with screw threads and found into the other end of the coil spring with threaded movement, the radius of curvature of the threads on said shank and handle being uniform and slightly larger than the normal radius of curvature of the convolutions of the spring, whereby the latter is forcibly expanded upon threaded engagement with said shank and handle thus securing a strong



and uniform frictional grip thereon, the ends of the shank and handle beyond the threaded portion being tapered to permit ready insertion thereof in the spring and having flat extremities which are nearly in contact when the device is assembled, whereby an initial flexure of the handle causes only a lateral tension of the spring but a continued flexure of the same causes the spring to be stretched longitudinally.

1,397,900. MORTISING-MACHINE. WILLIAM T. SHERMAN PATE, Indianapolis, Ind. Filed Nov. 18, 1920. Serial No. 424,948. 6 Claims. (Cl. 144—69.)



1. A mortising machine, comprising mortise and chain cutters, one telescoping on the other; and means for alternately projecting and retracting said cutters to and from an operative position by simultaneous opposite movements.

1,397,901. SPARK-PLUG. CLARENCE G. PRICE, Jersey City, N. J. Filed Apr. 26, 1921. Serial No. 465,659. 7 Claims. (Cl. 123—169.)



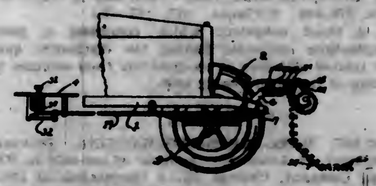
1. A spark plug provided with means to automatically lengthen the spark between its terminals upon an explosion of gases occurring in contact with the plug.

1,397,902. FRICTION-CLUTCH. WILLIAM G. PRICE, Yakima, Wash. Filed Apr. 4, 1921. Serial No. 226,560. 7 Claims. (Cl. 192—110.)



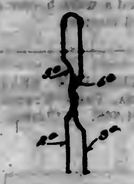
1. In a friction clutch, a driving-shaft, a driven-shaft, driving and driven disks secured to said shafts, respectively, said disks having annular friction faces, means for bringing said disks into frictional face contact with each other, and means for permitting one of said disks to oscillate on its bearing about any line radial of its axis to adjust itself angularly with respect to its normal axis.

1,397,903. FENDER ATTACHMENT FOR AUTOMOBILES. PETER J. QUARTANA, Milwaukee, Wis. Filed Aug. 24, 1921. Serial No. 494,926. 8 Claims. (Cl. 293—41.)



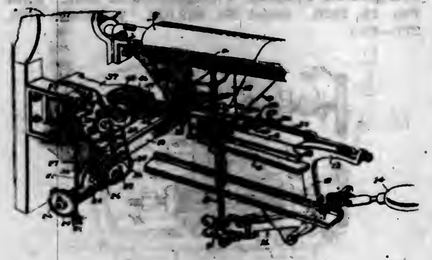
1. A safety fender attachment including a flexible frame member formed of a plurality of units adapted to be freely telescoped for one way hinge movement, a sheet of fabric supported from said frame member, and means for uniting said fabric to each of said units, said uniting means being also adapted to unite said units together.

1,397,904. RETAINING MEANS FOR HAIRPINS, CORDS, AND THE LIKE. EDGAR F. HARDY and RANDOLPH A. ERICKSON, Two Rivers, Wis. Filed Mar. 30, 1915. Serial No. 18,669. 1 Claim. (Cl. 132—50.)



A hairpin comprising a pair of legs resiliently connected together at one end, an arcuate projection formed on each leg, the arcuate projection of one leg being closer to the free end of its leg than the arcuate projection of the other leg is from its corresponding end, the arc of said projections being struck on a relatively long radius, the middle portion of each projection being bent laterally away from the longitudinal center of the pin, the inner end portion of the curve of the first mentioned projection and the lateral bend thereof being engaged with, or in close proximity to, the outer end portion of the curve of the second mentioned projection and the lateral bend thereof to provide a relatively long entrance throat and a tortuous passageway therebetween.

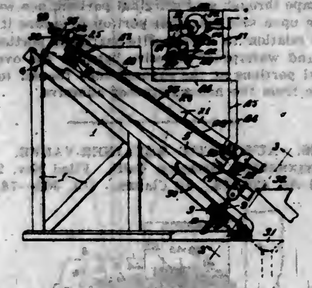
1,397,905. SPINNING OR WINDING MACHINE. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Jan. 11, 1921. Serial No. 436,542. 18 Claims. (Cl. 242—43.6.)



1. In a machine of the class described, the combination of yarn guiding means for guiding yarn to yarn receivers, a builder arm, a builder cam for operating the builder arm, a let-back mechanism mounted on the builder arm, connections between the builder arm and yarn guiding means including two flexible portions both of which are connected to the let-back mechanism, a deflector movable synchronously with the let-back mechanism and about which one of the flexible portions passes between its connections with the let-back mechanism and yarn guiding means, and means for operating the let-back mechanism and deflector.

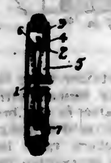
1,397,906. SCREENING APPARATUS. FRANK D. RUTHERFORD, Midway, Fla. Filed June 5, 1919. Serial No. 301,961. 20 Claims. (Cl. 92—36.)

1. In apparatus of the character set forth, the combination of a supporting structure, a screen, springs disposed transversely of the screen and constituted in spaced relation to each other by the supporting structure, bearing elements through which the screen is supported from the springs, and means for deflecting first one spring and then



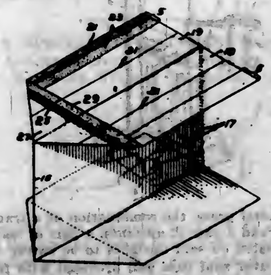
the other in opposite directions to positively move the screen both to and fro.

1,397,907. RESILIENT WHEEL. HERMAN A. SCHNITTKER, St. Louis, Mo. Filed Feb. 20, 1919. Serial No. 278,242. 2 Claims. (Cl. 188—37.)



1. A resilient wheel comprising a hub, an inner rim, an outer rim spaced from the inner rim, and a plurality of normally straight springs of a length to extend substantially half way around the wheel and fixed into a substantially semi-circular form to place the said springs under tension to arrange their terminal at approximately diametrically opposite points in the wheel, the terminals of each spring being bent in opposite directions at right angles to form integral attaching arms, said springs being arranged within the space between the inner and outer rims and alternately secured at their inner ends to the inner rim adjacent to one of the side edges of the said inner rim and at their outer ends to the inner face of the outer rim at the opposite side edge thereof.

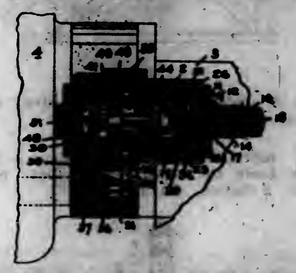
1,397,908. CONTAINER. JOSEPH V. R. SHEPHERD, Hollis-ton, Mass., assignor to Paper Products Machine Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 7, 1919. Serial No. 315,823. 5 Claims. (Cl. 229—53.)



1. A moisture proof container formed of a blank comprising outer and inner paper layers with a waterproof layer and reinforcing filaments between the outer and

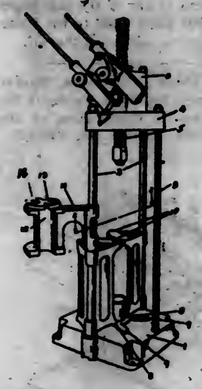
inner paper layers, one of said paper layers having a lateral edge extending beyond the layers secured thereto to form a marginal portion which is free from the waterproof layer, that the moisture of non-waterproof adhesive may escape through said marginal portion, non-waterproof adhesive upon said marginal portion to secure it in overlapping relation to an opposite marginal portion of the blank, and waterproof adhesive between the overlapping marginal portions at the exposed edge thereof to exclude moisture from the non-waterproof adhesive.

1,397,909. AUTOMATIC RETAINER-VALVE. THOMAS J. STEINKELLER, Berkeley, Calif. Filed Nov. 22, 1920. Serial No. 426,073. 10 Claims. (Cl. 303—78.)



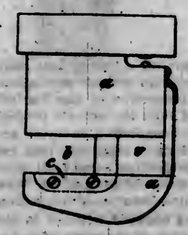
1. An automatic retainer valve for air brake apparatus comprising a housing formed with a passage for connecting the triple valve to the brake cylinder, a check valve in said passage, said housing being formed with a by-pass about said check valve including a cylindrical chamber, a valve for controlling the flow of air through said by-pass, a piston having a passage therethrough arranged in said chamber and operatively connected to said valve for closing it, and means for opening said valve when the pressure in the auxiliary reservoir exceeds a predetermined amount.

1,397,910. MANDREL-PRESS. ROBERT W. TAYLOR, Sr., Kalamazoo, Mich., assignor to Evansville Arbor Press Company, Evansville, Ind. Filed June 19, 1920. Serial No. 390,276. 4 Claims. (Cl. 29—85.)



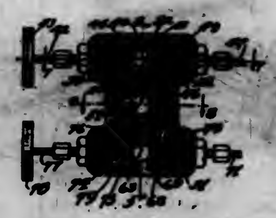
1. In a mandrel press, the combination of a frame comprising a base and a pair of uprights, a pair of main table members journaled on said uprights to be swung to operative position over said base and provided with foot portions resting on the base when in operative position and with coacting top portions eccentric relative to their axes and spaced from said base so that the spaces between them may be varied by swinging the members, an auxiliary table member pivotally mounted on one of said uprights to be swung over and rest upon the top portions of said main table members, said auxiliary table member being provided with a vertical work channel adapted to be alined with the space between the top portions of said main table members, and a work holder rotatably mounted on said auxiliary table member.

1,397,911. APPARATUS FOR SEVERING CABLES. CONSTANTIN TOSSIZZA, Paris, France. Filed Nov. 30, 1918. Serial No. 264,268. 8 Claims. (Cl. 164—56.)



1. An apparatus for severing cables or the like, consisting of a portable self-contained explosion-operated shear adapted to receive the cable between shear blades, and having means for instituting the explosion by which to operate the shear.

1,397,912. VALVE-MANIFOLD. WILLIAM WISHART and ALBERT H. MORRELL, Clinton, Iowa, assignors to Clinton Refrigerating Company, a Corporation of Iowa. Filed Feb. 16, 1920. Serial No. 359,082. 7 Claims. (Cl. 277—53.)

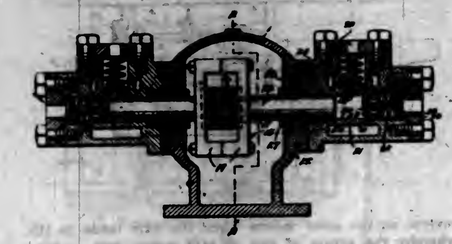


1. A valve manifold comprising a passaged block, a plurality of main valves in said block adapted to be opened to permit a refrigerating fluid to flow through the manifold in one direction, and a plurality of by-pass valves in said block adapted to be opened when the main valves are closed to permit a reversal of flow of the fluid through the manifold.

1,397,913. BENZOIC-ACID ESTERS OF TRIBROMO-TERTIARY BUTYL ALCOHOL. THOMAS B. ALDRICH, Detroit, Mich., assignor to Parke, Davis & Company, Detroit, Mich., a Corporation of Michigan. Filed May 18, 1918. Serial No. 235,244. 2 Claims. (Cl. 22—24.)

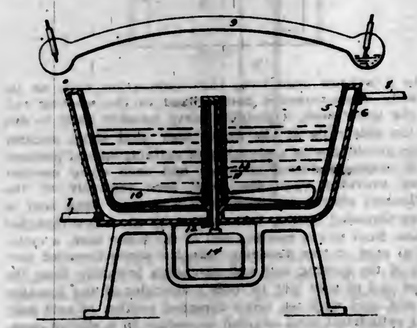
1. A new body forming one of a series, which may be designated as benzoic acid ester of tribromotertiary-butyl-alcohol, and characterized by the combination of tribromotertiary-butyl-alcohol and a substance containing the acyl benzoyl group and having the following characteristics: relative stability, insolubility in water and extreme solubility in organic solvents.

1,397,914. AMMONIA-COMPRESSOR. EDWIN J. AUGUSTIN, Wauwatosa, and GEORGE RAUBS, Milwaukee, Wis. Filed June 29, 1920. Serial No. 392,689. 1 Claim. (Cl. 230—27.)



A device of the character described, comprising a crank case, a pair of opposed cylinders extending in opposite directions therefrom, a pair of pistons reciprocably mounted in said cylinders, a bore in each cylinder casting, in alinement with but larger than the cylinder bore and beyond the path of the piston, and forming with said cylinder bore an annular shoulder, a valve cage fitted into said larger bore and seated on said shoulder and having an inner diameter substantially equal to that of the cylinder, a cap removably securing said cage in position and having an inlet port therein, an inlet valve seated in the inner end of said cage, and a valved outlet port in the side wall of the cylinder.

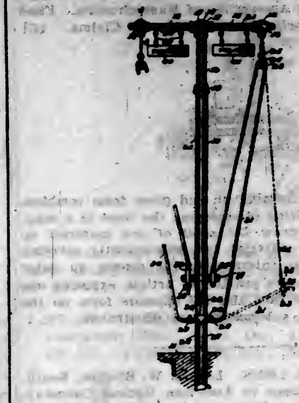
1,397,915. PROCESS OF TREATING NITROCELLULOSE AND TO A VALUABLE NITROCELLULOSE PRODUCT RESULTING THEREFROM. GILBERT C. BACON and WILLIAM C. WILSON, Tamaqua, Pa., assignors to Atlas Powder Company, Wilmington, Del., a Corporation of Delaware. Filed Feb. 7, 1921. Serial No. 443,175. 6 Claims. (Cl. 134—79.)



1. The herein described process for making highly concentrated solutions of nitrocellulose which consists of treating nitrocellulose with artificial ultra-violet light.

1,397,916. AIR-SERVICE STATION FOR AUTOMOBILES. JENNINGS B. BECK, Covington, Ky., assignor, by mesne assignments, to Standard Oil Company, a Corporation of Indiana. Filed Oct. 16, 1919. Serial No. 331,229. 1 Claim. (Cl. 298—77.)

A device of the character described including a tubular post, a lateral hollow arm extending therefrom, a cable extending through the arm and equipped at its inner end with a weight freely movable within the post, a ring carried by the outer end of the cable, a yoke swiveled to said ring, a pulley mounted on said yoke, a supply pipe disposed within the lower portion of the post, a supply hose connected with the pipe outside the post and trained



over the pulley whereby the hose will normally be retracted by the weight, and restraining means on the post to be engaged by the free end of the hose.

1,397,917. LOCK-TAG. MARCUS B. BEHAMAN, New York, N. Y., assignor to The Lox Seal Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 23, 1920. Serial No. 368,000. 7 Claims. (Cl. 40—20.)



1. In a device of the character described for use on a garment or the like, a tag, a plain pointed pin threaded through the tag and garment at a plurality of points for pinning the tag onto the garment, and a non-removable locking member securing the head end of said pin and said tag together, thereby enabling that portion of the garment held on the pin to prevent the removal of the pin or tag from the garment.

1,397,918. SPECIAL FASTENING FOR ENDS OF LACES. RENÉ AUGUSTE BIRARD, Bellevue, France. Filed Apr. 3, 1920. Serial No. 371,048. 2 Claims. (Cl. 24—143.)



2. Means of the character set forth in claim 1 hereof wherein the binding thread is doubled before being passed through the lace to form a loop, and wherein the free end of the coiled binding thread is held within the coil, passed through the loop which is pulled tight to secure said end.

1,397,919. PROCESS OF FORMING SHAPED END PIECES. William H. Bugbee, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Jan. 2, 1918. Serial No. 209,892. 4 Claims. (Cl. 29—20.)



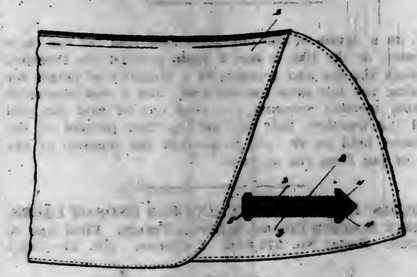
1. The process of forming an end piece from combination materials, consisting in stamping the form in a shaping die which will draw the shell of one material up around the opposite material and subsequently severing the parts on a plane intersecting the drawn up outer material on both sides to provide an article, exposing one form of metal on one face and the opposite form on the other face and sides, substantially as illustrated.

1,397,920. BIFOCAL LENS. Luchan W. Buchan, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Nov. 24, 1917. Serial No. 203,833. 2 Claims. (Cl. 88—54.)



1. A bifocal lens comprising a major portion of low refractive index and high relative dispersion, having a countersink formed therein and a segment secured within the countersink and having a high refractive index and a low relative dispersion.

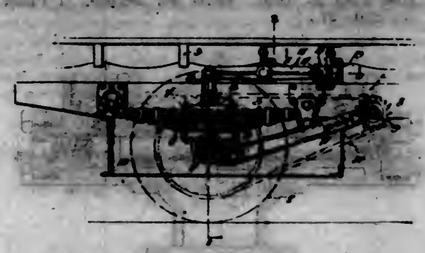
1,397,921. COLLAR, &c. Sanford L. Cluett, Troy, N. Y., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y., a Corporation of New York. Filed Oct. 29, 1919. Serial No. 334,358. 2 Claims. (Cl. 2—67.)



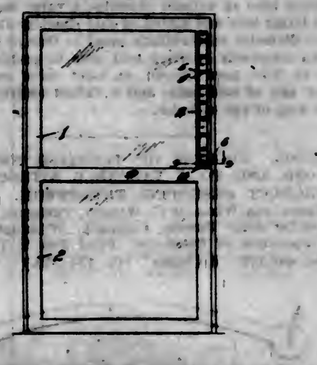
1. A buttonhole article having adjacent to an end of the buttonhole, bar-stitches extending divergently on opposite sides of the buttonhole, said bar-stitches being interlocked with each other at their apex.

1,397,922. VEHICLE SUSPENSION MEANS. Floyd Cornelison, Milwaukee, Wis. Filed Aug. 30, 1920. Serial No. 406,914. 3 Claims. (Cl. 280—124.)

1. In a vehicle, in combination, a stub axle, a cushioned suspension means for the axle, a wheel mounted on the outer end of said axle, a compensating means on the side of each side of the wheel, one of said means being operated in a manner the reverse of the other means when the axle tends to tilt, whereby the action of one of said means will counterbalance the other.



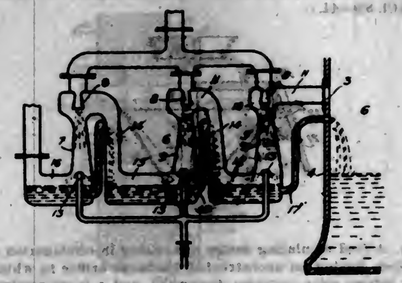
1,397,923. WINDOW-SASH FASTENER. John P. Crosby, St. Louis, Mo. Filed Dec. 8, 1919. Serial No. 343,337. 1 Claim. (Cl. 292—86.)



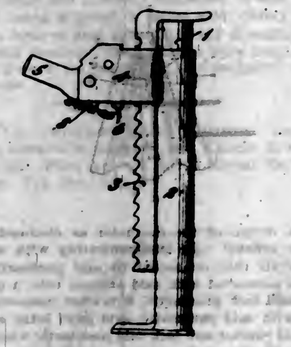
In a window sash lock, the combination with an interiorly screw-threaded holder fixed to the meeting rail of the lower sash, a metallic strap member fixed to one of the side rails of the upper sash, said strap member being provided with a plurality of suitably spaced horizontally disposed slotted openings and each strap member being provided upon its outer face centrally of the horizontal slotted openings with a counter sunk seat, a screw-threaded locking bolt carried by the screw-threaded holder fixed to the meeting rail of the lower sash, a cylindrical stud of less diameter than the screw-threaded portion of the locking bolt and extending inwardly from the inner end of said bolt to form a shoulder at the junction of said stud with the screw-threaded portion of said bolt, said cylindrical stud adapted to engage in a slotted opening of the strap member and the shoulder of said bolt adapted to frictionally engage the counter sunk seat of the strap member for forcing the window sash into vertical alinement and said stud and shoulder both acting to lock the sash together and prevent movement of either sash in either direction.

1,397,924. MULTIPLE-STAGE EJECTOR. Raymond N. Ehrhart, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Co., a Corporation of Pennsylvania. Filed Oct. 18, 1917. Serial No. 197,362. 8 Claims. (Cl. 230—12.)

7. In combination in an apparatus of the character described, an ejector, a condenser communicating with the outlet thereof, a second ejector communicating with said condenser, a second condenser communicating with the outlet of the second ejector, and a automatic connection between the second condenser and the communicating passage between the first mentioned condenser and the second ejector for delivering liquid from the second condenser to the said passage.



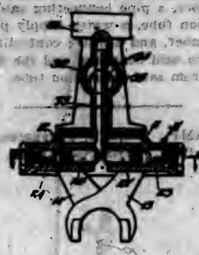
1,397,925. LIFTING-JACK. William C. Engel, St. Louis, Mo., assignor of one-third to Edward L. Hohenstein and one-third to Frederick Schott, St. Louis, Mo. Filed May 14, 1921. Serial No. 469,831. 5 Claims. (Cl. 254—111.)



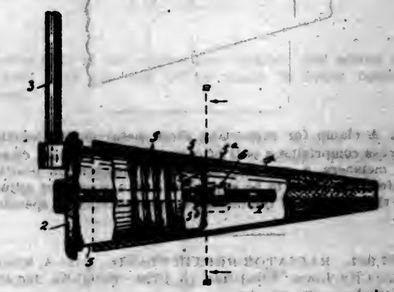
1. A lifting jack comprising a hollow standard having a closed bottom, a hollow lifting post mounted to telescope therein and having its bottom open to communicate with the interior of said standard, both said standard and lifting post being adapted to contain a liquid, a valve for the bottom of said lifting post arranged to control the communication between said lifting post and standard, said lifting post being provided with a small weep hole constituting a permanently open passageway between the interior of said lifting post and the interior of said standard.

1,397,926. TRANSMISSION-LOCK. Stephen I. Fekete, Detroit, Mich., assignor to Essex Motors, Detroit, Mich., a Corporation of Michigan. Filed July 29, 1918. Serial No. 247,149. 6 Claims. (Cl. 70—126.)

1. The combination with two sliding transmission rods having a pair of alined notches in their proximate faces, a plurality of alined locking members freely movable between said transmission rods and of a combined length equal to the distance between the rods plus the depth of one of the notches, means coacting with the locking members to separate them and a bolt for said means, said members adapted for receding from said notches on the movement of said locking means to released position.



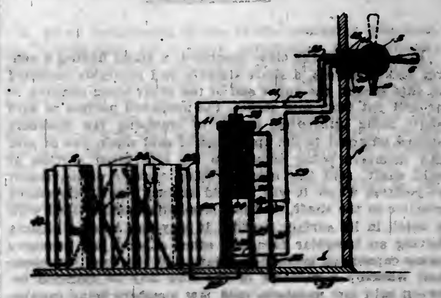
1,397,927. BOBBIN-HOLDER. Albert Henry Fleck, Lakewood, Ohio. Filed Dec. 17, 1920. Serial No. 431,457. 4 Claims. (Cl. 242—130.)



3. In a cop-tube support, a supporting arm, a supporting base thereon, a spindle on said base, a threaded cone-shaped support provided with a supporting head having a threaded opening surrounding said spindle, and a sleeve clamping screw surrounding said spindle in said threaded opening in coöperative relation to said threaded cop-tube support.

1,397,928. [WITHDRAWN.]

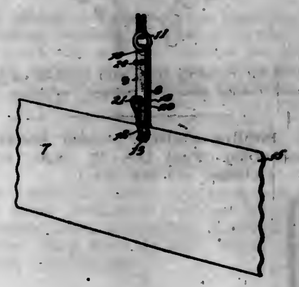
1,397,929. CARBONATOR AND DRAFT-ARM FOR SODA-WATER. Charles A. Geddes, Philadelphia, Pa., assignor to Explorer Manufacturing Corporation, Philadelphia, Pa., a Corporation of Delaware. Filed Sept. 20, 1920. Serial No. 411,516. 3 Claims. (Cl. 225—21.)



1. In a dispensing apparatus, the combination of an absorption tube, a volume tube divided into upper and lower

chambers, a check valve between said chambers, a gas pipe leading into the upper chamber, a gas pipe leading into the lower chamber, a pipe connecting said lower chamber to said absorption tube, a water supply pipe leading into said upper chamber, and a valve controlling both the admission of gas to said chambers and the discharge of carbonated water from said absorption tube.

1,397,930. CLAMP. JOHN L. JEFFERIES, St. Louis, Mo. Filed Apr. 14, 1921. Serial No. 461,444. 4 Claims. (Cl. 24—250.)



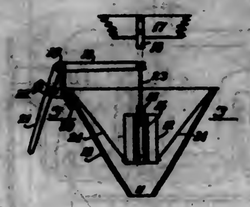
1. A clamp for supporting sheet metal during hoisting process comprising a pair of comparatively parallel clamping members, a cam for locking the members in position against the sheet to be supported and a screw for adjusting the position of the members, substantially as specified.

1,397,931. RADIATOR-REPAIR STAND. CARL A. KURTZ, Sac City, Iowa. Filed Mar. 16, 1920. Serial No. 366,407. 1 Claim. (Cl. 29—89.)



In a device of the class described, a stand having a center socket therein, a shaft slidably and rotatably mounted in said socket, the upper end of the shaft being adapted to project out from said socket, the projected portion of said shaft being bifurcated, a pair of clamping jaw members spaced adjacent to the upper end of said shaft, one of said jaw members being pivoted in the bifurcated portion of said shaft, said jaw member being capable of movement to position where it will be held against pivotal movement relative to the shaft, said jaw member being provided with a notch in its surface, so that it may rest against objects having an irregular face, the other of said jaw members being capable of movement relative to the first jaw member, whereby a radiator or the like may be clamped between said jaw members, said jaw members being capable of pivotal movement in two different planes on said shaft, as and for the purposes stated.

1,397,932. FEEDING APPARATUS FOR WEIGHING-MACHINES AND THE LIKE. JOSEPH B. MOCKRIDGE, Newark, N. J., assignor to Automatic Weighing Machine Company, Newark, N. J., a Corporation of New York. Filed Apr. 17, 1916. Serial No. 91,831. 3 Claims. (Cl. 83—44.)



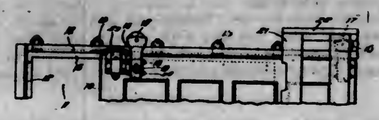
1. A feed regulating device comprising in combination a hopper, having an unobstructed discharge orifice to which the hopper sides converge downward, and a large vertical sided tube arranged within the hopper, in normal operation standing at a fixed elevation above said orifice, said tube being open at top and bottom in cross sectional area substantially equaling the horizontal-plane projection of the tube whereby the flow of hopper contents to the orifice is made regular.

1,397,933. AUTOMATIC PNEUMATIC LOCK. HARRY FRENCH, Oakland, Calif., assignor of one-half to Frank A. Briggs, Oakland, Calif. Filed Jan. 5, 1918. Serial No. 210,480. 3 Claims. (Cl. 84—48.)



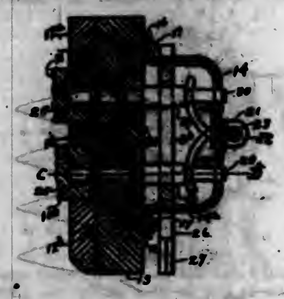
1. In a device of the character as disclosed, a pneumatic, an exhaust tube communicating with said pneumatic, an air tube connected to said pneumatic, a lock pneumatic connected with said exhaust tube, a pawl actuated by said lock pneumatic, a ratchet connected to and movable with said pneumatic, said pawl being adapted to engage said ratchet and lock said pneumatic when the lock pneumatic is expanded.

1,397,934. DOOR-FASTENER FOR RAILWAY-CARS. EDWARD POSSON, Chicago, Ill. Filed Dec. 5, 1919. Serial No. 342,629. 3 Claims. (Cl. 292—175.)



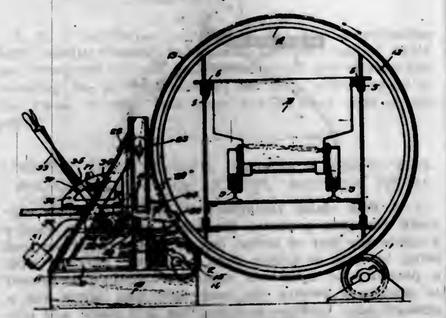
1. The combination in a railway car of a sliding door, a plate mounted adjacent the upper edge of said door, said plate having a central notch in its upper side with inclined guideways leading upwardly thereto from the ends of the plate, and a resiliently mounted latch member carried by the door and having a transversely projecting part adapted to engage one of said guideways and to pass into said notch.

1,397,935. MEANS FOR LOCKING WINDOW-SASHES IN POSITION. HENRY RABINOWITZ, New York, N. Y. Filed Aug. 19, 1919. Serial No. 318,554. 2 Claims. (Cl. 292—97.)



1. In a means for locking window sashes in position the combination of a window sash having one or more openings therein, the jamb of a window frame having a passage formed therein, a two-piece bracket secured to said jamb and forming an inclosure at the rear thereof, a sliding member in said inclosure, said member having a locking pin adapted to extend through said passage and to engage said openings when the latter are brought into registration with said pin, a spring connected to said bracket and adapted to keep said pin normally in engagement with said openings, and a one piece crank located in said inclosure and pivotally connected to said bracket, said crank being adapted to move said sliding member against the force of said spring, thereby disengaging said pin from said openings, and said two piece bracket being adapted to permit the placing of said one piece crank in said inclosure.

1,397,936. ROTARY CAR-DUMPER. GEORGE N. SIMPSON, ARTHUR M. SIMPSON, and WALTER H. SIMPSON, Chicago, Ill. Filed Apr. 21, 1920. Serial No. 375,570. 7 Claims. (Cl. 188—68.)



1. In combination with a rotating cage normally partially supported by a continuously rotating roller, means for lifting such cage from contact with such roller.

1,397,937. WINDLASS CLAMP FOR SUCKER-RODS AND TUBE-HOISTS. WARREN W. C. SPENCER, Brookline, Mass. Filed Mar. 3, 1920. Serial No. 362,932. 10 Claims. (Cl. 254—162.)

1. A clamp of the character described, including independent opposite clamp members and a chain having its intermediate portion engaged with one of the clamp members and its end portions associated with the respective ends of the other clamp member, and means associated with one end of the chain to apply tension thereto.



1,397,938. AMUSEMENT DEVICE. MORRIS UNGER, BERNARD S. VEAZIE, and JOSEPH W. ZARRO, Pittsburgh, Pa. Filed Sept. 14, 1920. Serial No. 410,236. 6 Claims. (Cl. 46—27.)

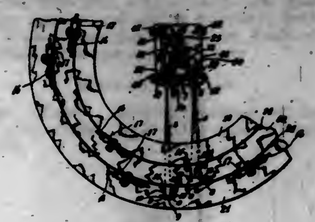


3. In an amusement device of the character described, the combination of a truck comprising two sections; means for detachably connecting said sections; a pyramidal tower of rectangular base, and built in one unit, mounted upon the rear section of said truck and hingedly connected thereon at the base; a rotatable member carried vertically by said tower and centrally thereof; means positioned on the rear section of said truck, for rotating said member; lifting means for raising said tower and means for detachably securing said lifting means to the rear end of said truck.

1,397,939. AMUSEMENT DEVICE. MORRIS UNGER, Pittsburgh, Pa. Filed July 11, 1921. Serial No. 483,707. 8 Claims. (Cl. 104—60.)

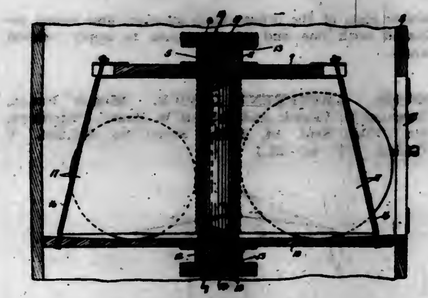
1. In an amusement device of the character described, a plurality of groups of bicycles; means for selectively

operating each group by motive power and means for selectively operating each of said groups independently of



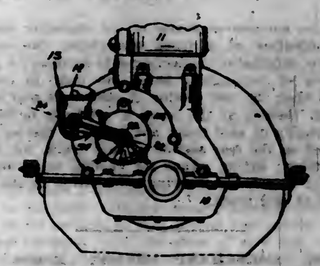
the other groups by the personal exertion of the occupants of said bicycles.

1,397,940. PHONOGRAPH-RECORD CABINET. CHARLES A. VASTOLA, Waterbury, Conn. Filed May 14, 1921. Serial No. 469,594. 1 Claim. (Cl. 211—16.)



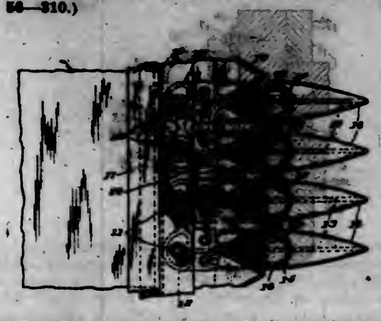
A phonograph record cabinet, comprising a vertically mounted rotatable post, a top plate and a bottom plate of larger diameter than the top plate rotatably mounted on said post, a series of stay-rods connecting the edges of the said plates, and a strip of flexible material successively folded around the stay-rods, forming a series of vertically-arranged radially-opening pockets around said post.

1,397,941. OILING DEVICE FOR INTERNAL-COMBUSTION-ENGINE TIMERS. HARRY J. WRIGHT, Des Moines, Iowa. Filed Oct. 24, 1919. Serial No. 333,080. 6 Claims. (Cl. 123—196.)



1. In combination with a timer shell, and retaining spring therefor, an oil tube having an end portion bent and passing through the retaining spring and timer shell.

1,397,942. GUARD-FINGER FOR HARVESTING-MACHINES. JOHN E. SWEARINGEN, Oak Park, Ill., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Apr. 9, 1917. Serial No. 160,693. 9 Claims. (Cl. 56—210.)



1. In a harvester, a finger bar having forwardly projecting spaced apart guard fingers, and rearwardly and downwardly inclined means carried by said guard fingers for catching shelled grain falling thereon and directing the grain rearwardly.

2. A finger bar for harvesters provided with spaced apart forwardly projecting guard fingers, said fingers having rearwardly and downwardly inclined means for catching and retaining shelled grain.

1,397,943. HOSE-CLAMP. FRANK J. COSTELLO, Baltimore, Md., assignor to Federal Tin Company, Inc., Baltimore, Md., a Corporation of New York. Filed July 8, 1921. Serial No. 483,132. 3 Claims. (Cl. 24—19.)



1. A hose clamp comprising a body portion and opposed clamping portions, the latter adapted to receive a tightening bolt or screw, one of said opposed portions being in strip or ribbon form and being provided with a plurality of apertures spaced longitudinally thereof to selectively receive the said tightening screw and a strengthening member receiving the said screw and providing a bearing therefor and adapted for selective insertion in the apertures in said strip portion.

1,397,944. CALCULATING DEVICE. THOMAS J. DALEMLL, Wakefield, Mass. Filed Apr. 22, 1920. Serial No. 375,024. 5 Claims. (Cl. 235—73.)

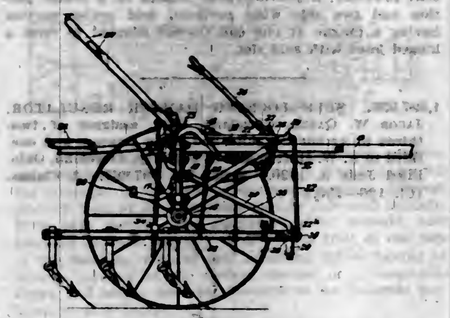
1. A calculating device comprising three superposed disks, pivotal means connecting said disks for relative rotation, the lower disk having an exposed scale and the middle disk also having a scale, said upper disk overlapping the scale of the middle disk and having a

narrow radial slot forming a window for exposing a limited portion of the middle disk, and a tab projecting



integrally from the edge of the upper disk and having a reading edge aligning with an edge of said slot.

1,397,945. CULTIVATOR. SAMUEL K. DENNIS, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Mar. 4, 1919. Serial No. 281,052. 5 Claims. (Cl. 97—35.)



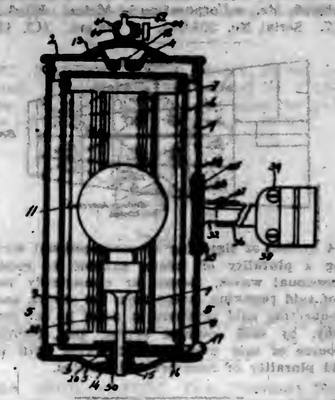
1. In a cultivator, a frame, longitudinally extending balls carried thereby, gangs, the forward ends of which are connected to said balls, and means for raising and lowering the forward ends of the balls with respect to the frame to raise and lower the forward ends of the gangs.

1,397,946. TOBACCO-PIPE. CHARLES G. DOSSIN, Meriden, Conn. Filed June 12, 1920. Serial No. 388,464. 1 Claim. (Cl. 131—12.)



The combination with a tobacco-pipe including the bowl and mouth-piece, said bowl formed with an opening and said mouth-piece formed with a longitudinal channel and with an opening intersecting the said channel, of a two-part passage member telescopically connected together, one member adapted to be turned into engagement with the bowl, and the other into engagement with the mouth-piece, and intersecting said channel.

1,397,947. AUTOMOBILE-SIGNAL. CHARLES DURNING, Philadelphia, Pa. Filed Sept. 29, 1919. Serial No. 326,540. 8 Claims. (Cl. 116—44.)



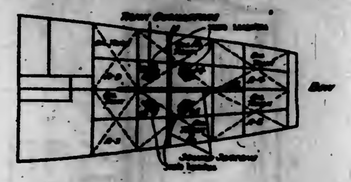
1. An automobile signal comprising a cylindrical casing having a sight opening therein, a transparent strip disposed across said opening, a head secured in each end of said casing, each head having a spherical section formed therewith and projecting outwardly, a bearing socket secured within the lower spherical section, a bridge secured within the upper spherical section, a signal barrel within the casing, flanges formed from the body of the signal barrel, signal strips or members held by said flanges, a flanged sleeve carried by the lower end of the signal barrel and journaled in the bearing socket, a stud carried by the upper end of the signal barrel and journaled in the bridge, whereby the signal barrel will be rotatable, means for rotating said signal barrel and a lamp support, the standard of which projects through the flanged sleeve and is threaded in the lower spherical section, as shown.

1,397,948. BEARING. PETER S. EARLSON, Chicago, Ill., assignor to Brown Portable Conveying Machinery Company, Chicago, Ill., a Corporation of Illinois. Filed May 15, 1919. Serial No. 297,360. 18 Claims. (Cl. 64—54.)



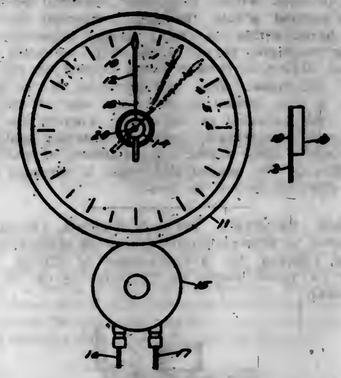
6. A shaft bearing comprising an outer integral socket member, an inner integral ball member having a central opening for a shaft, and fitting within the socket member, said socket member cut away at one end to permit the entrance of the ball member and provided with circumferentially spaced uncut portions, the ball member having similarly spaced longitudinal flutes in its outer surface adapted to register with said uncut portions to permit the ball to enter the socket, and means for retaining the ball member rotated within the socket member to a position where the flutes are not in register with said uncut portions.

1,397,949. METHOD AND APPARATUS FOR SUBMARINE SIGNALING. REGINALD A. FESSENDEN, Brookline, Mass., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed Dec. 31, 1917. Serial No. 209,682. 8 Claims. (Cl. 181—26.)



1. A system of signaling by compressional waves comprising a plurality of means adapted to receive said compressional waves, means for acoustically insulating each of said receiving means from the others, and means for connecting said receivers in pairs to act conjointly, whereby, by said conjoint action, the orientation of the source of said compressional waves with reference to said plurality of receivers is indicated.

1,397,950. STOP-CLOCK. REGINALD A. FESSENDEN, Chestnut Hill, Mass., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed Aug. 10, 1920. Serial No. 402,661. 2 Claims. (Cl. 58—126.)



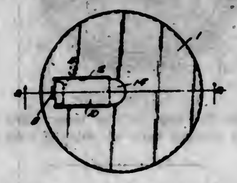
2. In an apparatus for measuring small intervals of time, a driving shaft, an indicating hand, an elastic connection between said driving shaft and said hand, and a dampening mechanism attached to said hand.

1,397,951. UNIVERSAL JOINT. FERDINAND FISCHER, Berlin, Germany. Filed Jan. 10, 1921. Serial No. 436,186. 6 Claims. (Cl. 64—91.)



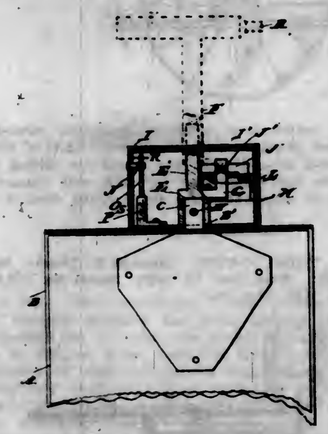
6. A universal joint comprising two joint members having each a body portion, carrying two oppositely arranged truncated cones having a common axis passing through and normal with the axis of the body portion and a spherical base, a cone-connecting rib and spherically recessed spaces intermediate the said truncated cones, the truncated cones of one joint member peripherally contacting with the truncated cones of the other joint member and entering with their base portions into the recessed spaces thereof and intercrossed pins passing through the axes of the respective truncated cones and connecting the two joint members for universal movement.

1,397,952. POURING-SPOUT. ALBIN L. FORSBERG, Chicago, Ill., assignor to Thomson and Taylor Spice Company, a Corporation of Illinois. Filed July 30, 1919. Serial No. 314,804. 5 Claims. (Cl. 221—11.)



1. In combination with a container having an opening with a slot at or near one edge of said opening, the lip or edge of said slot farther from said opening being bent inwardly, a pouring-spout formed of a center portion and two side wing portions, said center portion having a tongue at one end thereof adapted to form a hinged joint with said slot.

1,397,953. SELF-LOCKING DAMPER-REGULATOR. JACOB W. GABLE, Cleveland, Ohio, assignor of two-thirds to Arthur Coughlin and Blain Duncan, and one-third to A. W. Hutton and P. D. Astry, Cleveland, Ohio. Filed June 9, 1920. Serial No. 387,667. 3 Claims. (Cl. 126—295.)



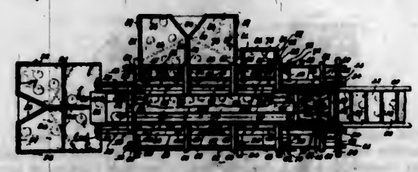
1. The combination of a pipe and a damper revoluble therein, the damper having a stem projecting through the side of the pipe and adapted to be engaged by a key, a casing projecting from the side of the pipe and surrounding the stem, a rack fixed within the casing, an arm projecting from the stem, and an elongated pawl pivoted to the arm with one end in operative relation to the rack and the other end adjacent the stem in such a position that the key in engaging the stem will move the pawl to inoperative position.

1,397,954. REEL FOR STRIP MATERIAL. EDWIN B. GAMBS, Jr., Derby, Conn., assignor to The Derby Textile Co., Derby, Conn., a Corporation. Filed Mar. 11, 1921. Serial No. 451,456. 2 Claims. (Cl. 242—105.)



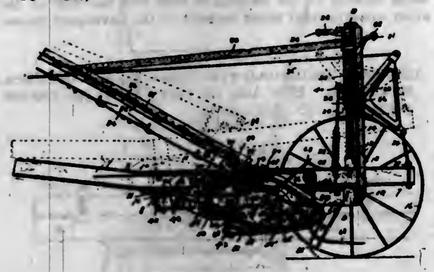
1. A reel for strip material comprising a box, a spool mounted therein and connected thereto on opposite sides by metal collars, said spool formed with a central opening and with sockets on opposite sides of the opening, combined with a wire handle having inwardly-offsetting ends and outwardly-extending tips adapted to enter said sockets.

1,397,955. ASSORTING-MACHINE. BERT L. GIFFORD and EDGAR B. GIFFORD, Barker, N. Y., assignors, by mesne assignments, to The Rex Company, Rochester, N. Y., a Corporation of Nebraska. Filed Feb. 17, 1919 Serial No. 277,606. 31 Claims. (Cl. 130—32.)



1. An assorting machine of the kind described, comprising a carrier traveling in one direction, a plurality of grading passages of different sizes through which different sizes of fruit or other produce may be delivered laterally from said carrier, and receiving tables beneath said passages inclined laterally to direct the fruit to one side of the machine, each of said receiving tables having at least a portion of its surface formed of a removable frame and textile material fastened at its marginal portions to said frame.

1,397,956. LOADER. OZRA L. GILLILAND, Minneapolis, Minn., assignor to National Shock Loader Co., Minneapolis, Minn., a Corporation of South Dakota. Filed Nov. 2, 1917. Serial No. 199,955. 10 Claims. (Cl. 56—358.)



1. In a loader of the kind described, the combination with a truck, of a pair of endless chains mounted on the truck and means for driving the same, a pickup device including a pair of carrying arms, connections attaching one end of the carrying arms to the chains, upper and lower tracks vertically spaced to afford channels in which the other or free ends of the carrying arms extend for travel on the tracks, upper and lower track surfaces on which said connections travel, and vertical passageways in the channels through which the connections move from the upper track surfaces to the lower track surfaces.

1,397,957. BUTTON. SHELLEY GULICK, Barnes, London, England. Filed May 3, 1920. Serial No. 378,636. 7 Claims. (Cl. 24—113.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



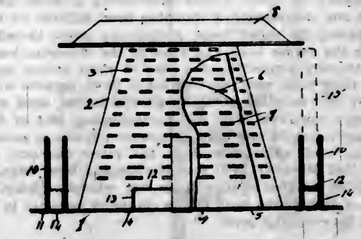
1. A button blank comprising two plates with means for clamping the two plates together after one part has been covered by material.

1,397,958. SMOKING-PIPE. CARL FRANKLIN HANABLE, Negley, Ohio, assignor of one-half to Joseph K. Bishop, Beaver Falls, Pa. Filed July 20, 1920. Serial No. 397,715. 2 Claims. (Cl. 131—12.)



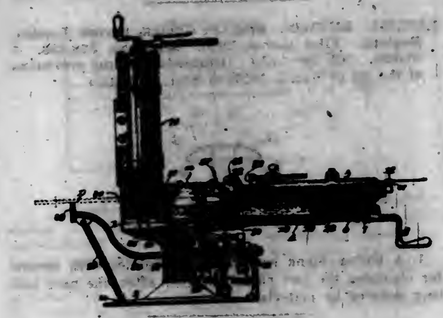
1. A tobacco pipe comprising a bowl having a stem composed of spaced sections arranged in longitudinal alinement, a substantially cylindrical casing forming a chamber fitted to the opposed ends of the stem sections, said casing being provided with corrugations to increase its exterior surface and form interior channels, and longitudinal tubes fitted into the bores of the opposed stem sections and having their inner ends bent laterally in opposite directions, and a bit carried by one of the stem sections.

1,397,959. BREAD-TOASTER. SAMUEL HEATH, Philadelphia, Pa. Filed Oct. 6, 1919. Serial No. 328,625. 1 Claim. (Cl. 53—5.)



In combination with a toaster including a base, a plurality of clips each comprising a U-shaped holder having sections bent upon itself and projecting downward below the holder and attached to the base and supports coacting with the clips, said supports extending between the walls of the clips and having legs for attachment to the base, and a frusto-pyramidal body spaced from said clips and having a plurality of concaved surfaces, one of said surfaces being disposed opposite each of said clips.

1,397,060. ROCK-DRILL-SHARPENING DEVICE. Jessurn H. Hanna, Auburn, Calif. Filed Mar. 26, 1919. Serial No. 285,262. 20 Claims. (Cl. 76—6.)



1. A rock drill sharpening machine, comprising supporting means, drill gripping means removably mounted thereon, means for acting on the end of the drill, and means mutually embodied in both the supporting and gripping means for preventing the gripping means from riding up during the operation of the aforesaid acting means.

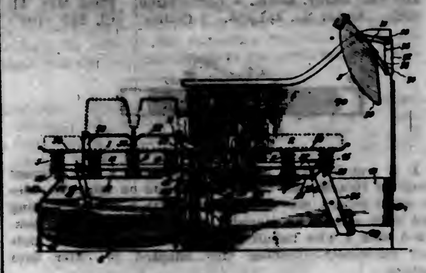
1,397,961. CABINET-MAKER'S CLAMP. Sven A. Holmquist, Tacoma, Wash. Filed Apr. 11, 1921. Serial No. 460,305. 4 Claims. (Cl. 144—303.)



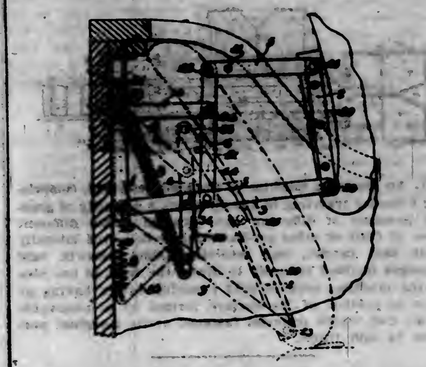
1. A clamp of the character described comprising cooperating, upper and lower clamping bars having notched outer edges; the lower of said bars having a thrust head fixed at one end thereof, a clamping head slidable on the bar adjacent the thrust head, a clamping screw threaded through the thrust head and fixed to the clamping head, links pivotally connecting the bars in rigid spaced relation at their outer ends, another set of links, parallel with the first set, mounted pivotally on the thrust head and detachably connected with the corresponding end of the upper bar to retain said bars in parallel relation, a second clamping head adjustable along the lower bar and an anchor link pivotally fixed to said clamping head engageable within notches of the upper bar whereby clamping pressure against the head effects clamping pressure to be exerted between the bars.

1,397,962. FOLDING DAVENPORT-BED. Orman A. Hostetter, Tacoma, Wash. Filed Nov. 3, 1919. Serial No. 335,241. 8 Claims. (Cl. 5—51.)

1. Hinge structure for a swinging seat comprising a bar having a fixed pivot support at one end, a lower pivotal thereto intermediate its ends and outward of the fixed pivot of said bar, one end of said lever being adapted for pivotal connection to the seat frame, a control lever pivoted, by one end to the opposite end of said lever, the other end of said control lever being fixedly pivoted, and a link adapted to pivotally connect the outer end of said bar and the seat frame.

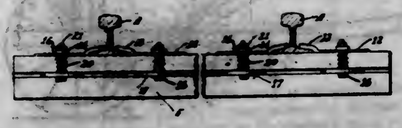


1,397,963. DAVENPORT-BACK. Orman A. Honsinger, Tacoma, Wash. Filed June 7, 1920. Serial No. 388,868. 15 Claims. (Cl. 5—55.)



2. A support for davenport backs comprising a plurality of links forming, in positions between their upper and lower positions, two quadrilaterals having one link forming a side common to both, one side of one quadrilateral being secured to the davenport back and one side of the other quadrilateral being secured to the davenport frame.

1,397,964. RAILROAD-TIE. John George Horniack, Hawley, Pa. Filed Aug. 15, 1921. Serial No. 492,399. 4 Claims. (Cl. 238—281.)



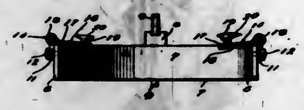
1. A device of the character described embodying a railway tie having slots in the upper and side faces, rail clamps adjustably mounted in said upper slot, clamping means slidably mounted in said side slots, and means operatively connecting said clamping means with the rail clamps for binding said rail clamps and clamping means within the slots.

1,397,965. EXHIBITION-CAR. Rosaa Jovar and Robert de Steurs, Zurich, Switzerland, assignors to the Firm of Jovar, de Steurs & Meyer, Zurich, Switzerland. Filed June 29, 1920. Serial No. 392,806. 7 Claims. (Cl. 105—238.)



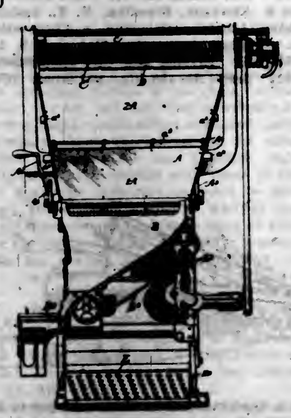
1. In an exhibition car, a plurality of vertical partition walls arranged to divide the car into separate exhibition compartments and forming a continuous interior passage along one side of the car, means for detachably mounting the partitions to permit the formation of exhibition compartments of different sizes and a bed provided in each compartment.

1,397,966. SPUR. Pascal M. Kelly, Dalhart, Tex. Filed Mar. 23, 1921. Serial No. 454,688. 2 Claims. (Cl. 54—83.)



1. A spur comprising a band, a U-shaped bracket having arms secured flatly in contact with the outer side of the band and having a bite portion arranged above the upper edge of the band, an arm inclusive of a pair of limbs, and a bearing member receiving the bite portion of said bracket, and a button having a shank connecting the terminal portions of said limbs, one of said limbs being adapted to lie flush with the inner side of the said band.

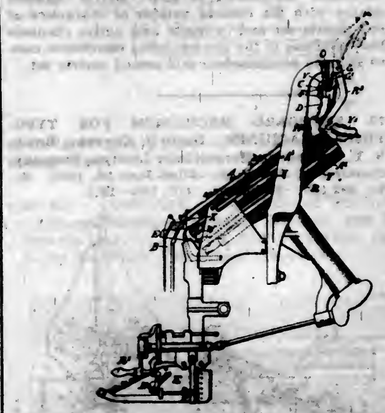
1,397,967. TYPOGRAPHICAL MACHINE. David S. Kennedy, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Oct. 8, 1919. Serial No. 329,339. 81 Claims. (Cl. 199—34.)



10. In a typographical machine equipped with matrices formed with projecting ears located in different outwise positions thereon, the combination of a magazine formed with grooved channels wherein the projecting ears of the

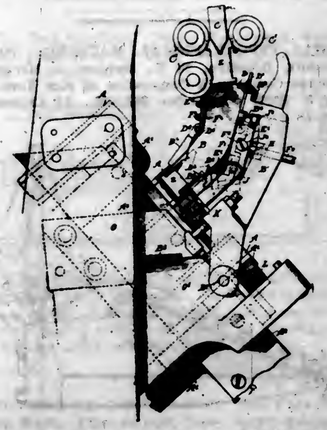
matrices engage, a distributer, and an intermediate magazine entrance having partitions dividing it into matrix channels, the said channels being arranged in varying relations to the appropriate grooved channels of the magazine in accordance with the different outwise positions of the projecting ears on the respective matrices.

1,397,968. TYPOGRAPHICAL DISTRIBUTING-MACHINE. David S. Kennedy, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Nov. 18, 1919. Serial No. 338,867. 27 Claims. (Cl. 199—39.)



2. Typographical distributing mechanism including, in combination, two distributer bars permanently mounted in the machine, a common set of matrix conveying devices, and means whereby said devices may be caused to serve either one of the two distributer bars to the exclusion of the other as required.

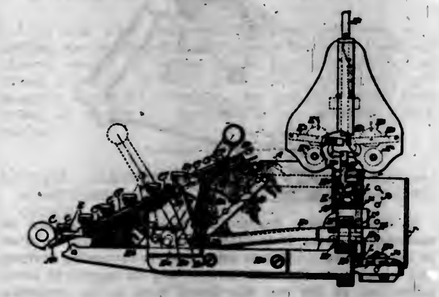
1,397,969. TYPOGRAPHICAL MACHINE. David S. Kennedy, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed June 15, 1920. Serial No. 389,259. 26 Claims. (Cl. 199—39.)



2. In a typographical distributing machine adapted to be equipped with a set of matrices having tooth-combina-

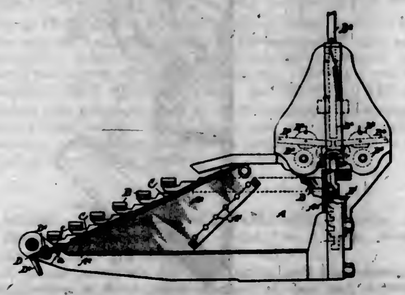
tions arranged thereon in the same setwise position throughout the set, or with a set of matrices comprising fewer characters and having tooth-combinations arranged thereon in different setwise positions throughout the set, the combination of a distributer having combinations to coöperate with those of the matrices, a magazine entrance provided with a series of partitions normally dividing it into as many matrix channels as there are distributer combinations and which channels occupy the same relation to the corresponding distributer combinations so as to accommodate the first matrix set, and means for adjusting certain of said partitions sidewise from their normal positions to reduce the number of active matrix channels in accordance with the reduced number of characters of the second matrix set and to locate said active channels in different relations to the corresponding distributer combinations so as to accommodate said second matrix set.

1,397,970. KEYBOARD MECHANISM FOR TYPOGRAPHICAL MACHINES. DAVID S. KENNEDY, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed June 28, 1920. Serial No. 392,159. 30 Claims. (Cl. 199—19.)



2. In a keyboard mechanism for typographical machines, the combination of a series of escapement actuating devices, a series of finger keys, intermediate adjustable means through which the finger keys operate the escapement actuating devices in one location or another according to the adjustment of said means, and automatic means for locking the finger keys against actuation except when the parts are in properly adjusted condition.

1,397,971. TYPOGRAPHICAL MACHINE. DAVID S. KENNEDY, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed July 3, 1920. Serial No. 393,856. 11 Claims. (Cl. 199—18.)



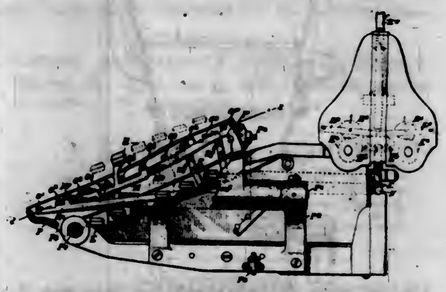
1. A keyboard for typographical machines including, in combination, a supporting frame, a series of finger-keys movably mounted therein and disposed at different levels, and locking means adjustable to active and inactive position independently of the actuation of the finger-keys and arranged to be engaged with and disengaged from the finger-keys directly so as to prevent or permit their actuation according to the adjustment of said locking means.

1,397,972. TYPOGRAPHICAL DISTRIBUTING-MACHINE. DAVID S. KENNEDY, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Original application filed Oct. 8, 1919, Serial No. 329,339. Divided and this application filed Jan. 15, 1921. Serial No. 438,061. 11 Claims. (Cl. 199—33.)



2. In a typographical distributing machine, the combination of a magazine entrance permanently located in the machine and pivotally mounted therein so as to be movable into and out of operative position, and a substitute magazine entrance also permanently located in the machine and provided with a pair of supporting arms spanning the other entrance and pivotally and slidably arranged so as to permit the interchange of the two entrances without interference.

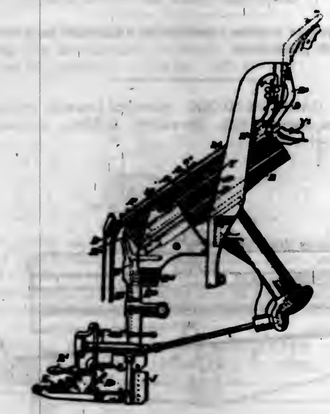
1,397,973. TYPOGRAPHICAL COMPOSING-MACHINE. DAVID S. KENNEDY, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Original application filed Oct. 8, 1919, Serial No. 329,339. Divided and this application filed Jan. 15, 1921. Serial No. 438,062. 10 Claims. (Cl. 199—19.)



2. In a typographical machine adapted to be equipped with a magazine containing a set of matrices arranged in one order as to character or a set of matrices having a less number of characters and arranged in a different order as to character, the combination of a main keyboard having as many finger keys as there are characters in the

first set of matrices and arranged in the same order as to character, and means whereby said finger keys may be operatively connected to the appropriate channels of the magazine containing such matrix set, with a supplemental keyboard having only as many finger keys as there are characters in the other set of matrices and arranged in a different order as to character from that of the matrices of said set, and means whereby the finger keys of said supplemental keyboard may be operatively connected to the appropriate channels of the magazine containing such other matrix set.

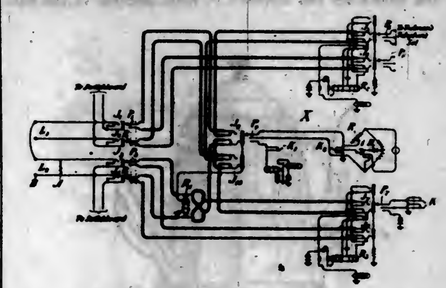
1,397,974. TYPOGRAPHICAL MACHINE. DAVID S. KENNEDY, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Original application filed Oct. 8, 1919, Serial No. 329,339. Divided and this application filed Apr. 21, 1921. Serial No. 463,436. 36 Claims. (Cl. 199—39.)



1. In a typographical machine, the combination of two magazines, one containing a set of matrices having tooth-combinations arranged thereon in the same setwise position throughout the set, and the other containing a set of matrices having tooth-combinations arranged thereon in different setwise positions throughout the set, means for selecting either magazine for use, a single distributer having combinations to coöperate with those of the matrices, and a channeled magazine entrance to carry the matrices from the distributer to the selected magazine and having its channels arranged in varying or unvarying relations to the corresponding distributer combinations according to the set of matrices contained in said magazine.

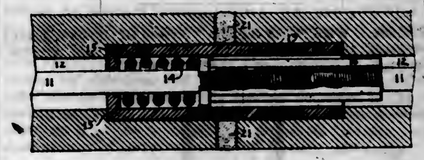
1,397,975. ELECTRICAL TESTING SYSTEM. GEORGE W. KUHN, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Feb. 19, 1920. Serial No. 359,985. 4 Claims. (Cl. 179—175.)

4. In a testing system the combination of a plurality of line circuits, a jack individual to each conductor of each circuit for terminating the same, a cord circuit having a plurality of plugs adapted to coöperate with the said jacks, a testing circuit adapted for connection with the said cord circuit and switching means associated with said cord circuit and controlled by the connection of the said testing circuit with the said cord circuit, for the selection



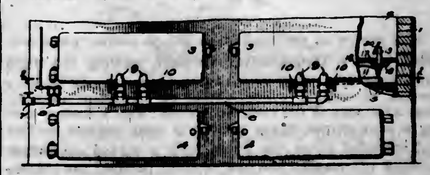
of the line conductors desired for connection with the said testing circuit.

1,397,976. PORTABLE BUILDING OR STRUCTURE. CHARLES FREDERICK MCAVOY, Brooklyn, and DANIEL EDWARD MCAVOY, New York, N. Y. Filed Nov. 14, 1917. Serial No. 202,041. 3 Claims. (Cl. 20—2.)



3. In combination with wall and roof units of a portable or knock-down building, and with horizontal tie-rods extending through said wall and roof units; an internally flanged metal cup or socket seated in the upper end of a wall unit; a spring placed within said socket and resting at one end upon the internal flange; sectional eye-bolts threaded upon the longitudinal tie-rods, one of said sections passing through the spring; and an internally threaded sleeve or nut connecting the proximate ends of the alined eye-bolt sections and resting upon said spring.

1,397,977. GAS-BURNER. IRA G. MARQUETTE, Wheeling, W. Va. Filed Nov. 17, 1920. Serial No. 424,787. 4 Claims. (Cl. 158—7.)



1. In a furnace, a fire-box, a grate arranged therein, a shield arranged above said grate, feed pipes disposed on said grate, burners connected to said feed pipes and projecting through said shield, and means for introducing air to said burners below said shield.

1,397,978. TEA OR COFFEE POT. BEN FRED OLSEN, Marcus, Wash. Filed July 22, 1920. Serial No. 398,061. 1 Claim. (Cl. 53—3.)

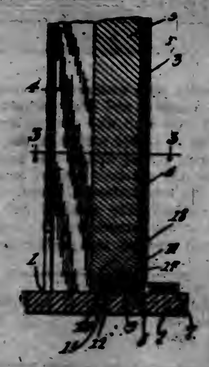
A tea or coffee pot comprising a receptacle body having a cover, a pair of diametrically opposed handles on the

body, and a corresponding pair of diametrically opposed spouts leading from the interior of the body, upwardly and outwardly and disposed in juxta-position to the han-



dles and in horizontal alinement therewith, corresponding handles and spouts being arranged at an angle of substantially 180° from each other.

1,397,979. WEATHER-STRIP. James H. Greene, Mount Vernon, Ill. Filed Jan. 19, 1920. Serial No. 352,260. 1 Claim. (Cl. 20—65.)



In a device of the class described, a carrier plate provided with a trough-shaped receiver portion, the plate being bent upon itself at one of the edges of said receiver portion to form a double-walled lip extended inwardly from said edge of the receiver portion; and a closure having a hook-shaped flange located in said receiver portion and extended about the lip to form a hinged connection between the closure and the receiver portion, the closure having bendable end wings located at right angles to the flange and cooperating with the receiver portion to limit endwise movement of the closure and to maintain the closure hingedly mounted on the receiver portion.

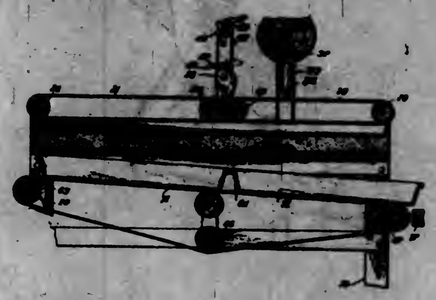
1,397,980. BENDING ATTACHMENT FOR VISES. John B. Ouellette, New Bedford, Mass. Filed July 1, 1921. Serial No. 482,200. 3 Claims. (Cl. 81—23.)

1. A detachable bending attachment for a vise comprising a pair of complemental sections, means on each section whereby the sections may be secured to the jaw of a vise, a projection on one of said sections, and the other section having a recess adapted to receive said projection when the jaws of a vise are moved together, said recess



being adapted to receive a portion of an article bent thereinto by said projection.

1,397,981. CAKE-MACHINE. Walter Peters, Chicago, Ill. Filed Apr. 6, 1921. Serial No. 459,849. 9 Claims. (Cl. 107—1.)

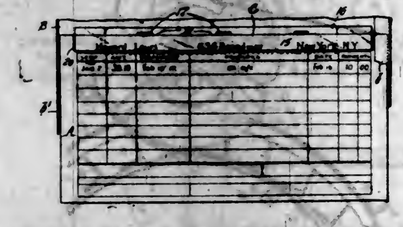


1. A machine of the character described, comprising a traveling feed member, a traveling discharge member, both arranged substantially in alinement with each other, an open sided cylindrical shell disposed transversely of the members at a point in proximity to the adjacent ends of said members, the cylindrical shell being so arranged that one of its longitudinal edges of the open side will be disposed substantially in alinement with the first mentioned feed member when said shell is in one position, while the other longitudinal edge of the open side of said shell will be substantially in alinement with the second mentioned member when said shell is in a second position, means whereby said shell will be oscillated a predetermined degree, and power-imparting means whereby said last mentioned means is actuated.

1,397,982. CARD-INDEX SYSTEM. James H. Rand, Jr., Tonawanda, N. Y. Filed May 21, 1917. Serial No. 169,923. 21 Claims. (Cl. 129—16.)

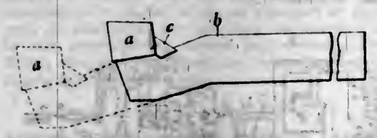
1. In a card system, a series of cards, a sheath connected to each card adjacent to one margin thereof for protecting an inlaid member for the card, said cards being assembled with the sheath of each card nested between the sheath and the body of the next card in the series, whereby said cards are interlocked and spaced with their sheaths projecting one beyond another.

17. In a card system, a series of units, each unit having a substantially rectangular card portion of relatively large area and adapted to bear reference matter, and a relatively narrow tongue in front of said card portion, each unit being arranged with one margin thereof nested



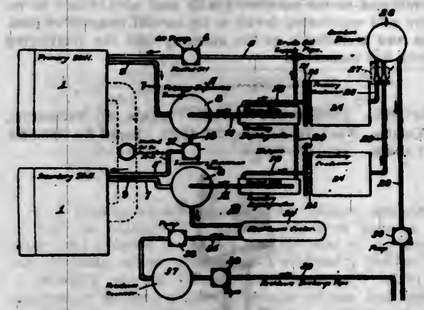
between the tongue and card portion of the next unit and with each tongue only partially overlapping the next tongue, whereby said units are interlocked and said tongues provide exposed index portions in front of said card portions located one above another.

1,397,983. METAL-CUTTING TOOL. John Barrack Renwis, Manchester, England. Filed Oct. 27, 1919. Serial No. 333,637. 1 Claim. (Cl. 29—95.)



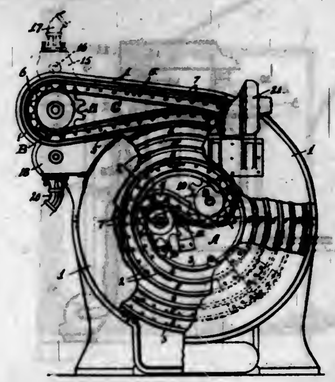
In metal cutting tools, the combination consisting of a bent and recessed shank or holder, a cutter seating upon and welded to the bent portion of said holder, and a strut integral with the said cutter and in dovetailed connection with the recessed portion of the holder, as set forth.

1,397,984. OIL-DISTILLING APPARATUS. Thomas J. Ryan, Tulsa, Okla. Filed July 21, 1921. Serial No. 486,359. 2 Claims. (Cl. 196—3.)



1. In an oil distilling apparatus, the combination of a pair of stills, a crude oil supply pipe connected with the inlet of one still, a pair of expansion tanks, one for each still, pipes leading from the outlets of the respective stills to the respective expansion tanks, a pipe for conducting the unvolatilised oil from the expansion tank associated with the first-named still to the inlet of the second still, vapor outlet pipes leading from the expansion tanks, condensers connected with said vapor outlet pipes, dephlegmators located in said pipes between the expansion tanks and the condensers, and means for conveying the oil separated from the vapors in the dephlegmators and conveying the same to the inlet of the first still for retreatment.

1,397,985. COOKER. John Benjamin, Jr., Philadelphia, Pa., assignor of one-third to Albert E. Thompson, San Jose, Calif. Filed Feb. 28, 1921. Serial No. 447,194. 4 Claims. (Cl. 126—272.)



1. A cooker comprising a shell; can-rails in said shell directed to form a plurality of can paths occupying successive cross sectional areas of the shell, and each path having an involute section leading from the periphery of the shell to its axial region and there reversed in direction to form an involute section leading outwardly between the coils of the inleading section to the periphery of the shell; means for directing the cans from one can path to the next successively; means for feeding the cans to the inleading section of the first can path; means for discharging them from the outleading section of the last can path; and means for advancing the cans through said paths.

1,397,986. CELLULOSE-ESTER SOLVENT AND RESULTING CELLULOSIC COMPOSITION. Max Y. Seaton, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Jan. 16, 1920. Serial No. 351,916. 10 Claims. (Cl. 134—79.)

1. A new composition of matter, comprising a solution of a cellulose ester in chlorpropyl acetate.

1,397,987. ACTUATING MEANS FOR THROTTLE-VALVES OF CARBURETERS. Charles L. Sheffy, Buffalo, N. Y., assignor to The Pierce Arrow Motor Car Company, Buffalo, N. Y. Filed Dec. 29, 1919. Serial No. 347,940. 8 Claims. (Cl. 137—139.)

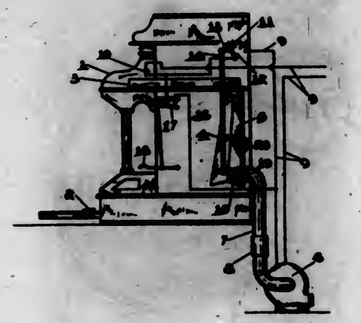


1. The combination with a carbureter having a pivoted throttle valve, of a separate actuating device therefor which is movable relatively to the throttle valve, and operative connections between said actuating device and the throttle valve constructed to produce a varying rate of motion of the throttle valve which increases as the opening movement of the actuating device continues.

1,397,988. ORGAN-BLOWER. Rowland Henry Smith, Brantford, Ontario, Canada. Filed Sept. 18, 1920. Serial No. 411,228. 1 Claim. (Cl. 84—385.)

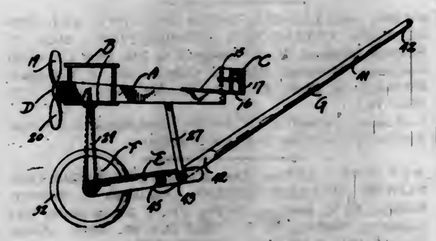
The combination with an organ provided with bellows having a movable side, an electrically-operated blower communicating with the bellows, an electric circuit for the blower, a rheostat in said circuit, operating connections be-

tween the movable side and the rheostat, whereby movement of the side decreases the resistance as the bellows collapses, of a normally open shunt circuit adapted when



closed to short-circuit the rheostat, a switch adapted to close the shunt circuit, a full organ pedal, and connections whereby the operation of said pedal closes the switch.

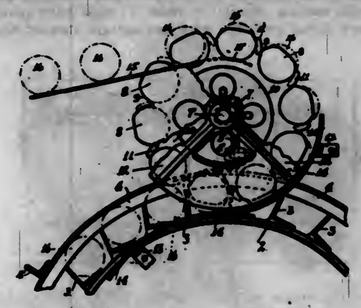
1,397,989. TOY AEROPLANE. HARRY McBRIDE SMURR, Armona, Calif. Filed July 15, 1920. Serial No. 396,334. 6 Claims. (Cl. 86—48.)



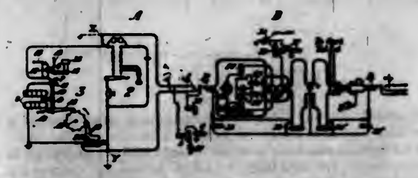
1. In a toy, the combination of wings, a fuselage connected to said wings, a propeller rotatably carried by said fuselage, a landing gear including an under frame, a wheel detachably mounted upon said frame, means disposed upon one side of said wheel for simulating the explosions of an internal combustion engine, means disposed upon the opposite side of the wheel for driving said propeller, and a handle structure detachably and adjustably connected to said landing gear for propelling said toy.

1,397,990. CAN-EXTRACTOR. ALBERT R. THOMPSON, San Jose, Calif., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif., a Corporation of California. Filed Oct. 13, 1920. Serial No. 416,733. 4 Claims. (Cl 214—17.)

1. A can-extractor comprising a pair of rotatable, parallel, spaced disks associated with the path of travel of a can; a fixed member lying beyond and rising above said can path, adapted to receive the forward end of the can projected from the path and tilt said can to cramp it between and against the spaced disks; and a rotatable turret disk to engage the cramped can and lift it in conjunction with the pair of disks, from the can path and elevate it to its discharge.



1,397,991. MESSAGE-REGISTERING SYSTEM. GEORGE K. THOMPSON, Maplewood, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 9, 1919. Serial No. 329,423. 4 Claims. (Cl. 179—7.)



1. In a message registering system, the combination of a subscriber's line circuit having a telephone set and a message registering device associated therewith, a cord circuit adapted for connection with said subscriber's line circuit and means associated with said cord circuit to restore said registering device to its normal unoperated position and to indicate to the operator that the registering device has registered.

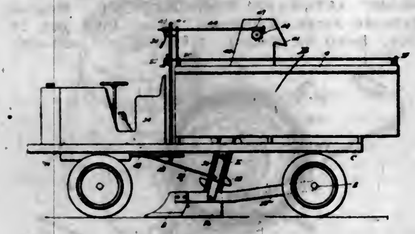
1,397,992. HOSE-SUPPORTER. ANNIE S. TRUMBULL, Yakima, Wash. Filed May 29, 1920. Serial No. 385,350. 1 Claim. (Cl. 24—245.)



In a hose supporter, the combination of a rigid oblong body plate having a medial longitudinally directed eye, a supporting strap engaged at one end with said plate, a rigid oblong button having a medial longitudinally directed bar, and a supporting strap depending from the first strap and engaged with said bar normally supporting the button

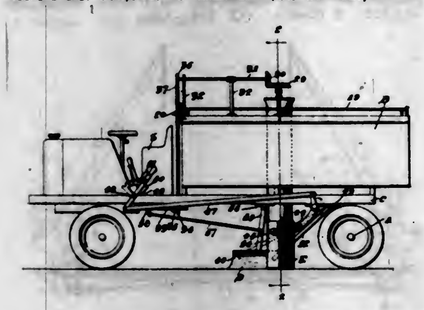
with its length disposed transversely of said eye, the button being of a length greater than the length of the eye and of a width greater than the width of the eye whereby the button can be retracted through the eye only by twisting the latter strap and moving the button endwise with its width disposed longitudinally of the eye.

1,397,993. SELF-LOADING VEHICLE. JAMES BOBBIT VON CANON, West End, N. C. Filed Mar. 12, 1920. Serial No. 365,285. 11 Claims. (Cl. 37—32.)



1. A loading apparatus for motor vehicles comprising, a body, a delivery chute supported on the body, a concentrating device comprising divergently arranged wings supported beneath the body and adapted to collect the material to be loaded, a hopper arranged at the meeting ends of said wings for receiving the material collected by the concentrating device, and elevating means for lifting the material from the hopper and introducing it into said delivery chute.

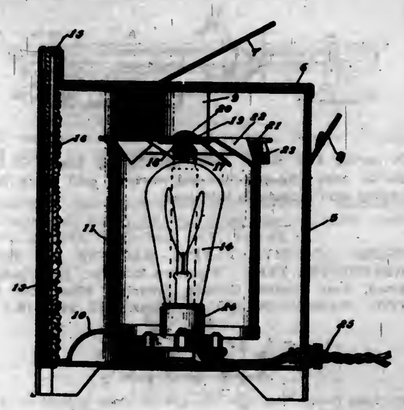
1,397,994. SELF-LOADING VEHICLE. JAMES BOBBIT VON CANON, West End, N. C. Filed May 4, 1920. Serial No. 378,744. 5 Claims. (Cl. 37—32.)



1. A loading apparatus for motor vehicles comprising, a body, a concentrating device supported beneath the body and adapted to collect the material to be loaded, an elevating casing, comprising a stationary section and a movable section telescopically associated with the stationary section, a spiral conveyer within said casing, a shaft for actuating said conveyer comprising a stationary section and a movable section telescopically associated with the stationary section, means for driving the stationary section, and manually operable means for elevating the movable section of the casing and said concentrating device for the purpose described.

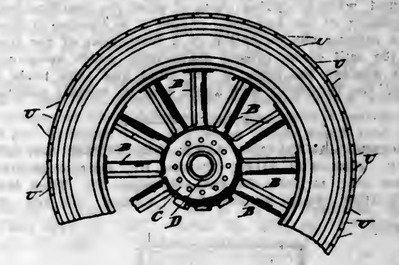
1,397,995. ELECTRIC SIGN. DAVID KINNE WADE, Portland, Oreg. Filed June 27, 1921. Serial No. 480,777. 2 Claims. (Cl. 40—132.)

1. A sign including a casing, said casing having a transparent front wall, a revoluble cylinder formed of transparent material of varying colors positioned within the casing, means for causing the cylinder to revolve,



and curved members extending inwardly from the walls of the casing for regulating the passage of heat through the cylinder.

1,397,996. AUTOMOBILE-WHEEL RIM AND TIRE. ROBERT WRIGHT, Cleveland, Ohio. Filed Jan. 15, 1917. Serial No. 142,429. 2 Claims. (Cl. 301—17.)



1. The combination of a felly band provided with depending flanges, a transverse tube extending between and supported by the said flanges, a tire holding rim sleeved on and spaced from the felly band, opposed interlocking wedges arranged in the space between the band and the rim and secured at intervals to the outer face of the band and the inner face of the rim, an adjustable wedge extending transversely of the rim in the band substantially entirely across the said space and engaging one of the said wedges for forcing the opposed wedges into interlocked relation, an adjusting screw extending through the said tube and interlocked at one end with the felly band and provided at the other end with a nut engaging the adjustable wedge.

1,397,997. DEVICE FOR MOUNTING THE SPRINGS IN VEHICLES. RODOLFO ZEPPEGNO, Turin, Italy, assignor to Lancia & C., Turin, Italy, a Company of Italy. Filed Sept. 17, 1920. Serial No. 410,938. 5 Claims. (Cl. 267—54.)

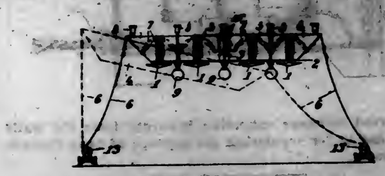
4. The combination with a vehicle frame and an axle, of yieldable means interposed between said parts, comprising a leaf spring connected to said frame, a collar

connected to said axle, said spring and collar being provided each with a split socket, a wire rope connecting



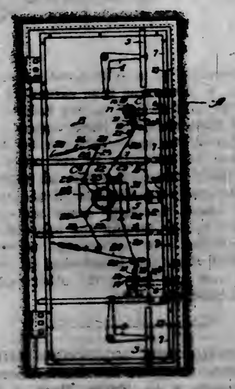
said spring and collar, said rope having hooks at its opposite ends engaged in said sockets, and belts for clamping said sockets to said hooks.

1,397,998. CAPTIVE FLYING-MACHINE OF THE HELICOPTER TYPE. WILHELM ZURBEC, Jr., Fischamend, near Vienna, German-Austria. Filed Mar. 9, 1920. Serial No. 364,695. 9 Claims. (Cl. 244—19.)



1. A captive flying machine of the helicopter type, comprising screw-raising mechanism acting on the air, and a plurality of securing ropes applied to the framework of the said helicopter at points apart from one another, the said securing ropes diverging toward the ground, whereby during gusts of wind the resulting mass movement of the helicopter causes it to become inclined, thus causing the formation of a component of the force of the said screw raising mechanism, which component acts against the force of the wind and thus tends to bring the helicopter back again into its normal position.

1,397,999. AUXILIARY LOCK FOR SAFES, VAULTS, &c. ADRIAN S. ALLEN, Chicago, Ill., assignor of sixty per cent. to John H. Taft, Chicago, Ill. Filed Mar. 27, 1920. Serial No. 368,350. 7 Claims. (Cl. 109—8.)



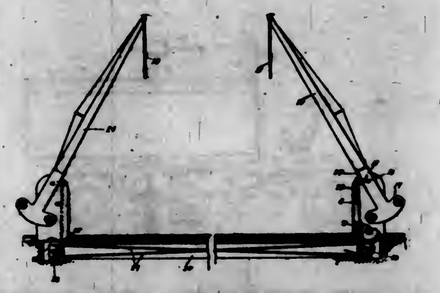
1. In combination, a safe provided with a door having a main locking mechanism, a normally inactive auxiliary locking device mounted on the door and arranged to lock the same closed independently of the main locking mechanism, a flexible connection controlling the auxiliary locking device and extending across the main locking mechanism and adapted to release the auxiliary lock when force is exerted upon said flexible member by abnormal movement of the main locking mechanism, a spring adapted to effect release of the auxiliary locking device, and a flexible connection normally holding said spring against operation and extending across the main locking mechanism, whereby when said last-named flexible member is severed the auxiliary locking device will be released and thrown to the locking position.

1,398,000. AUTOMATIC TIMING DEVICE. WILLIAM RAYMOND ALLEN, Hutchinson, Kans. Filed Dec. 13, 1920. Serial No. 430,361. 7 Claims. (Cl. 200—25.)



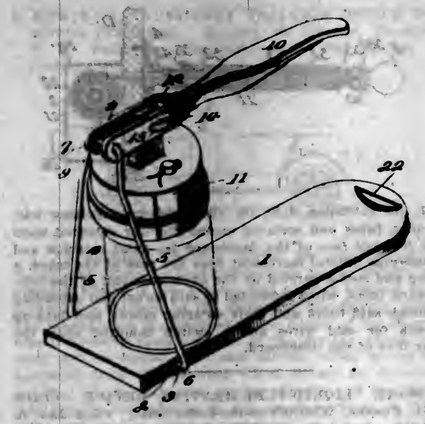
1. A timer including a shaft, a supporting member carried thereby, a counterweighted lever pivotally mounted on said supporting member and movable in a plane perpendicularly to the axis of said shaft, a roller support operatively connected with and actuated in one direction by said counterweight lever, a contact roller carried by the roller support, and means for moving the roller support in a direction opposite to that in which it is moved by said counterweight lever.

1,398,001. RAILROAD-GATE. ERET E. BARTHOLOMEW, Algona, Iowa. Filed Sept. 20, 1920. Serial No. 411,522. 2 Claims. (Cl. 246—128.)



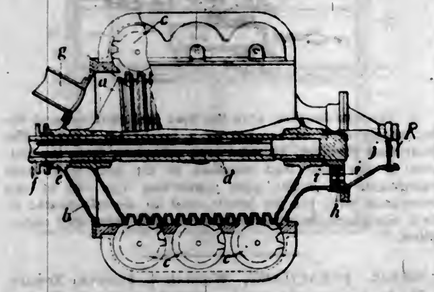
1. The combination with a railroad gate, of a motor, gearing connecting the motor with the gate, vertically spaced stationary electric contacts adjacent the gate, a movable contact between said stationary contacts and normally engaging one of them, an electromagnet, an armature therefor constituting a latch to engage the gate to hold it in closed position, a circuit including the motor, the movable contact and the stationary contact normally engaged by the movable contact whereby the motor may be energized to close the gate, a second circuit including the electromagnet, the movable contact and the stationary contact normally free of the movable contact whereby the electromagnet may be energized to draw the latch into engagement with the gate and hold the gate closed, a rocking arm arranged to shift the movable contact between the stationary contacts, and a presser finger movable with the gate to rock said arm whereby to break the first-mentioned circuit and close the second-mentioned circuit.

1,398,002. JAR-CAPPING MACHINE. JOHN J. BAUER, Baltimore, Md., assignor to Thrift Jar Company, Baltimore, Md., a Corporation of Maryland. Filed Mar. 2, 1921. Serial No. 448,980. 5 Claims. (Cl. 226—64.)



1. In a capping machine, in combination, a suitable base, a standard pivotally secured to the base, a pressure applying lever pivoted to the standard, and a capper carried by the lever.

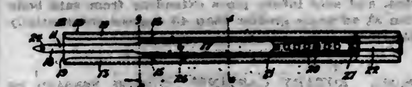
1,398,003. MANUFACTURE OF BUTTER SUBSTITUTES, EDIBLE FATS, AND THE LIKE. WILLIAM CLAYTON, Liverpool, and GERARD NOORMS, Wallasey, England. Filed Mar. 26, 1920. Serial No. 369,062. 4 Claims. (Cl. 99—12.)



2. In the manufacture of edible fats such as margarin, lard substitutes and the like, the process comprising thoroughly emulsifying the mixture containing all the required ingredients in the proportion desired in the finished product, then forcing the mixture under pressure through a cooler while simultaneously keeping the ingredients mixed and after the mixture is cooled utilising the pressure to force the mixture through an additional homogenising action as described.

1,398,004. EMBROIDERY-NEEDLE. CHESTER C. CLEVY, San Francisco, Calif. Filed Jan. 7, 1920. Serial No. 349,252. 5 Claims. (Cl. 112—69.)

1. An embroidery needle of the character described, comprising a body member having inturned edges, a needle member having a cylindrical hollow front end, and an arched rear portion with flanges entering and guided by the inturned edges of the body.



1,398,005. TROLLEY-WIRE PROTECTOR. FRANCESCO COLARUSSO, Albert, W. Va. Filed Mar. 12, 1920. Serial No. 365,279. 4 Claims. (Cl. 191—35.)

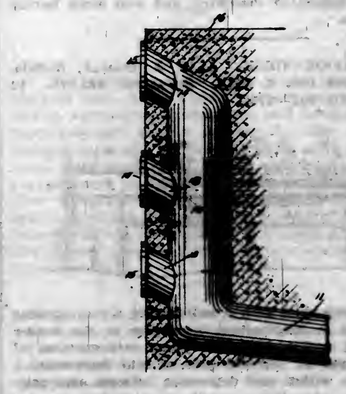


1. A trolley wire having an enlarged upper part and downwardly extending diverging wings, said wings forming exterior grooves at their point of connection with the body and a covering of insulating material surrounding the body and outer surfaces of the wings and having portions extending into the grooves.

1,398,006. PRODUCTION OF ZINC. CORNELIUS ERIK CORNELIUS, Stockholm, Sweden. Filed Mar. 17, 1921. Serial No. 453,008. 1 Claim. (Cl. 204—63.)

A process in the electro-thermic production of zinc during the treatment of the zinc ore in dust chambers or condensers, consisting in preliminarily and before the extraction step begins, of heating the ore sufficiently to drive off the water ordinarily existing in the ore or the material added thereto, but not extending the heating step to the point where the zinc extraction begins, whereby clogging of the chamber or condenser walls is prevented and the hydrogen from the water which would tend to dilute the zinc vapors is practically all eradicated as described.

1,398,007. DRAIN. SAMUEL S. DAVIS, Kentland, Ind. Filed Mar. 7, 1921. Serial No. 450,148. 2 Claims. (Cl. 61—10.)



1. A device of the character described comprising an upright tubular body portion, a substantially horizontal

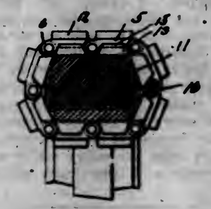
outlet portion arranged at the lower end of said body portion, a plurality of intake pipes arranged in vertically spaced relation and open to the interior of said body portion, and said intake pipes extending from said body portion at an angle greater than 45 degrees substantially as described.

1,398,008. ROTARY CASTING. DIMITRI SENSAUD DE LAVAUD, New York, N. Y. Filed Nov. 14, 1919. Serial No. 338,010. 17 Claims. (Cl. 22—209.)



1. The process of casting an annular metallic article in a rotary mold, which consists in laying the metal in the mold in successively deposited spirally related subdivisions while guiding the flow of the metal adjacent to the mold to cause the metal to flow tangentially toward the mold only at one side thereof at an angle to the mold axis and at an angle to a plane perpendicular to the mold axis.

1,398,009. AUTO TRACTION-CHAIN. DOLPHIS DESUISSEAUX and FRANKLIN S. CAPRON, Taunton, Mass. Filed Dec. 9, 1920. Serial No. 429,510. 1 Claim. (Cl. 152—2.)



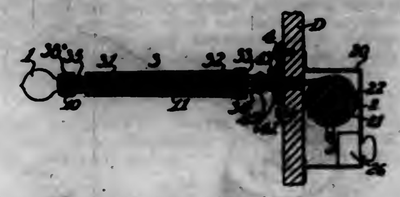
In a traction chain, a plurality of pivotally connected links, a block having opposed flanges, associated with each link, said flanges adapted to engage the side edges of the link associated therewith, and said block having inclined ends.

1,398,010. DOOR-CHECK. ADAM J. EISMAN, Buffalo, N. Y. Filed Dec. 4, 1919. Serial No. 342,378. 12 Claims. (Cl. 292—275.)



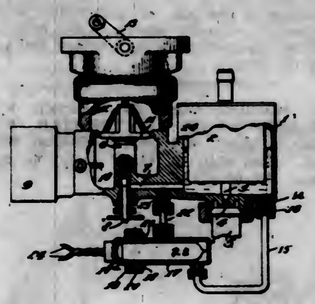
1. The combination with a wall having a door opening provided with a longitudinal depression in the header jamb thereof, and a door for closing said opening, of gripping springs at opposite ends of said depression, a slide movable within said depression between said gripping springs, and a link pivotally connected at one end to said slide and at its other end to the upper edge of said door.

1,398,011. EXTENSION-LIGHT FOR AUTOMOBILES. THOMAS ALVA EDISON SEATTLE, Seattle, Wash. Filed Mar. 14, 1921. Serial No. 452,216. 4 Claims. (Cl. 240—7.)



1. An extension light for automobiles comprising telescoping tubes and securing means therefor mounted upon the forward face of the dashboard for axial rotation and transverse pivotal movement near the base of the tubes, a lamp and socket carried by the outermost end of the telescoping tubes, wires connected to said socket and extending through said tubes and their securing means, and take-up means for said wires and a switch mounted upon the rear face of the dashboard.

1,398,012. LIQUID-FUEL-HEATING DEVICE. CLAUD H. FOSTER, Wickliffe-on-the-Lake, Ohio. Filed Jan. 5, 1918. Serial No. 210,507. 6 Claims. (Cl. 219—38.)



1. The combination, with the float feed chamber and the jet nozzle of a carbureter, of a receptacle beneath the float feed chamber, an inlet pipe extending from the bottom of the float feed chamber to the bottom of said receptacle, an outlet pipe connecting the top of the receptacle with the jet nozzle, and an electric heater in said receptacle interposed between said inlet and outlet pipes.

1,398,013. STENCILING. WILLIAM G. FUERTH, Newark, N. J., assignor, by mesne assignments, to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Original application filed Nov. 29, 1912, Serial No. 734,027. Divided and this application filed Oct. 29, 1915. Serial No. 58,694. 1 Claim. (Cl. 41—33.6.)

A hygroscopic emollient adapted to soften a hardened stencil sheet, comprising an oil, and also having an astringent or hardener for the stencil sheet.

1,398,014. MANUFACTURE OF EARTHENWARE. CLARENCE E. FULTON, Tarentum, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed June 7, 1919. Serial No. 302,472. 4 Claims. (Cl. 106—35.)

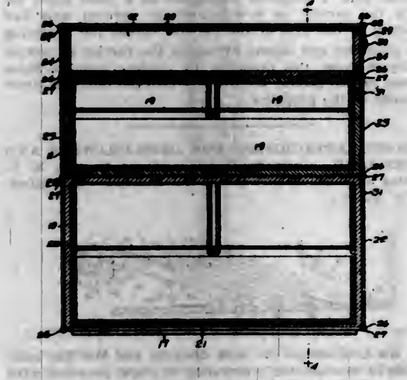
1. An improvement in the manufacture of earthenware which consists in treating a clay body material with an alkaline hydroxid, a soluble alkaline silicate, and a deflocculating agent having the modifying effect in clay characteristic of gallic acid.

1,398,015. AUXILIARY TRACTION DEVICE FOR MOTOR-VEHICLES. ALBERT H. GIBBONS, Brooklyn, N. Y. Filed Apr. 22, 1920. Serial No. 375,840. 3 Claims. (Cl. 180—7.)



1. An auxiliary traction device for motor vehicles, comprising drums secured respectively to the driving and steering wheels of the vehicle, and a cable adapted to be secured respectively to the drums of the driving wheels and wound upon and secured to the drums of the steering wheel, whereby upon rotation of the driving wheels, the cable will be wound upon said driving wheel drums and unwound from the steering wheel drums to drive the steering wheels from the driving wheels, and means for maintaining the spindles of the steering wheels in alinement and against turning movement.

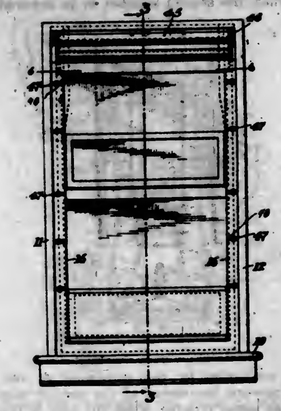
1,398,016. TRUNK CONSTRUCTION. DAVID B. HART, New York, N. Y. Filed Nov. 4, 1920. Serial No. 421,664. 2 Claims. (Cl. 190—21.)



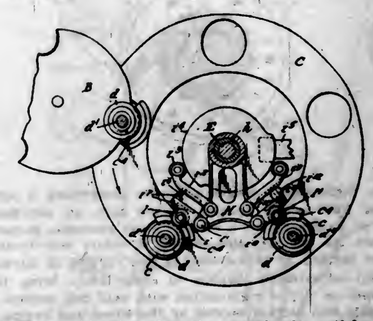
1. The combination with a trunk including a plurality of separable trunk sections, each provided with spaced ribs on the bottom walls and spaced grooves in the top walls inter-engageable with the other trunk sections to prevent lateral separation thereof when assembled, said trunk sections having centrally arranged grooves in the top and bottom walls thereof, of a band adapted to embrace said trunk sections for retaining the same against separation.

1,398,017. WINDOW-SCREEN. WILLIAM J. HEWITT, Bloomfield, N. J. Filed Jan. 18, 1919. Serial No. 271,817. 10 Claims. (Cl. 156—14.)

9. In an inside full length window screen and in combination, a frame, screen members mounted in the frame, an offset upper end member associated with the frame, devices coacting with the said offset upper end member for holding the frame in position in the window casing, and means associated with the frame for securing in place thereon a sheet of material in order to form a space for non-circulating air between the same and the window sashes.



1,398,018. CAN-SEAMING MACHINE. HUGH G. HILL, Wheeling, W. Va., assignor, by mesne assignments, to Whitaker-Glessner Company, Wheeling, W. Va. Filed Mar. 5, 1919. Serial No. 280,689. 16 Claims. (Cl. 113—23.)

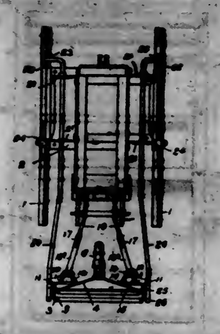


1. The combination of a rotary carrier for articles to be operated upon, an oscillatory member movable with said carrier, a plurality of devices on said member adapted to operate on said articles to close the same, each of said devices operating on different articles while said member moves with said carrier, one of said devices performing a preliminary closing operation on an article while the other device performs a second closing operation on an article on which the preliminary operation has been performed, and means for moving said member in the reverse direction to move said devices into operative relation to other articles.

1,398,019. GLASS-DRAWING APPARATUS. HALBERT K. HITCHCOCK, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Dec. 28, 1918. Serial No. 268,715. 6 Claims. (Cl. 49—17.1.)

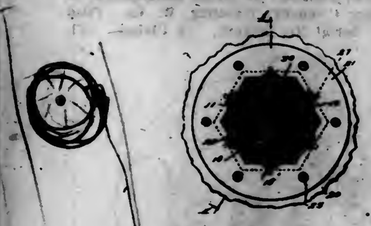
5. In combination in apparatus for drawing glass cylinders from a body of molten glass, a bait comprising a lower annular member having a ledge for supporting a

flange of glass, and a second member movable up and down with respect to the first member and comprising a ring member adapted to engage the flange of glass on the ledge when the second member is in lowered position,



and means controlled by the movement of the bait for causing an upward movement of the second member with respect to the lower member when the bait is raised above the body of glass.

1,398,020. DEMOUNTABLE WHEEL. HENRY EASTON HOLLEY, Otisville, N. Y. Filed Dec. 29, 1919. Serial No. 347,930. 4 Claims. (Cl. 301—9.)



1. A demountable wheel structure comprising a non-circular hub section carried by the axle, an abutment flange at its inner side, a reduced axial extension projecting from the opposite side thereof, a rotary non-circular member carried by said extension and capable of circumferential adjustment thereon to respectively bring the same into or out of registration with said hub section, a removable hub section carried by the wheel and having a non-circular bore conforming to the shape of the permanent hub section, said removable hub section being capable of application to or removal from the permanent section when the rotary member is registered therewith and adapted to be retained thereon by said member when the same is out of registration with said permanent section.

1,398,021. COLLAPSIBLE SEAT FOR CHILDREN. WILLIAM V. HOLLEY, New York, N. Y., assignor to New York Bath Manufacturing, Inc., New York, N. Y., a Corporation of New York. Filed June 8, 1921. Serial No. 476,035. 2 Claims. (Cl. 155—31.)

1. A seat comprising a base portion, a spacing bar extending along the lateral edges of the base portion on the under face thereof, a folding lateral leg portion or support hinged to the lower face of each spacing bar, and front and rear leg portions hinged to the under surface of the base portion at the front and rear edges thereof, said front and rear leg portions being operatively related with but disconnected from the lateral leg portion and adapted to fold up against the seat portion and the lateral leg portions adapted to fold against the front



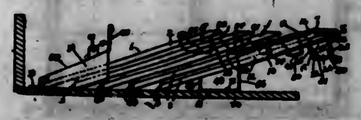
and rear leg portions when collapsed, said front and rear supporting portions when in assembled position acting as braces for the lateral supporting portions.

1,398,022. DISH-WASHING MACHINE. MARK A. HOPKINS, Brooklyn, N. Y. Filed Oct. 6, 1920. Serial No. 415,103. 4 Claims. (Cl. 141—9.)



1. Dish washing apparatus comprising a casing, a dish carrier rotatably supported therein on a substantially vertical axis, a propeller supported at a fixed point beneath the carrier on a substantially vertical axis and eccentric to the axis of the carrier, means for operating said propeller and means by which the carrier is rotated by liquid from the propeller to thereby bring articles stacked on the carrier successively into the range of direct influence of the propeller.

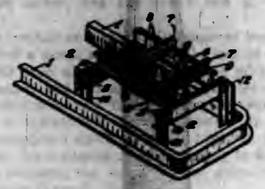
1,398,023. ATTACHMENT FOR DESK-DRAWERS AND THE LIKE. JOHN H. HOPPER, Mount Vernon, N. Y. Filed July 26, 1919. Serial No. 313,426. 15 Claims. (Cl. 45—7.)



1. An attachment for desk drawers and the like comprising in combination a plurality of trays, provided with downwardly extending projections and with sockets, the sockets of one of said trays being adapted to engage the projections of another superjacent tray and thereby removably connect the trays together, said sockets and said projections extending backward and inward toward the longitudinal middle line of the trays.

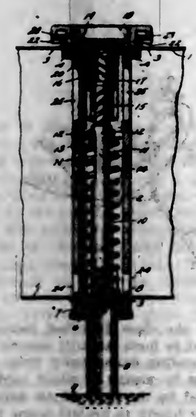
1,398,024. MEANS FOR SUSPENSION OF ENGINES IN MOTOR-VEHICLES. ISAMOR MORRISON JACOBS, Kansas City, Mo., assignor, by mesne assignments, to Truck, Tractor and Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 21, 1917. Serial No. 163,652. 1 Claim. (Cl. 180—64.)

A universal engine support whereby engines of different types and sizes can be supported on standard trucks or engine frames, comprising vertical supports engaging the frame bars of a chassis, transverse members on said supports, longitudinal bars supported on said transverse members, and transverse engine-engaging members supported



on said longitudinal bars, said longitudinal and transverse members being capable of adjustment to accommodate engines of different types and sizes.

1,398,025. OIL-TANK VALVE. WILLIAM F. JAMES, Honolulu, Hawaii. Filed May 20, 1920. Serial No. 383,005. 6 Claims. (Cl. 137—21.)



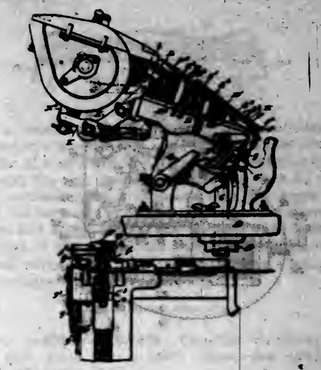
1. The combination with a tank, of a tubular valve casing secured in the tank, an outlet valve at the lower portion of the tubular casing, a removable cap constituting a valve on the upper portion of the tubular casing, a stem on said first-mentioned valve having a screw threaded end, means holding the stem against rotary movement, and an internally screw threaded shank on the cap engaging the threads of the stem.

1,398,026. BUTTON-FEEDING INSTRUMENTALITY FOR BUTTON-SETTING MACHINES. JOHN KELLY, Norfolk, Va., assignor to Kelly Button Machine Company, Inc., Norfolk, Va., a Corporation of Virginia. Filed Oct. 6, 1915. Serial No. 54,365. 22 Claims. (Cl. 218—8.)

1. In a button setting machine, a button raceway, and means for varying the size of the raceway to fit different sized button heads comprising a pivoted cover plate having its axis disposed on one side of the raceway.

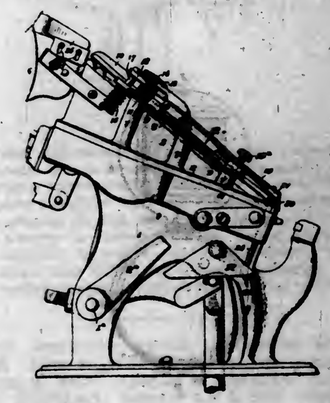
51. In a button setting machine the combination with a staple forming and driving mechanism and a wire feed,

of means for gripping a button eye to support the same to receive the staple wire and a gage carried by said sup-



porting means for indicating the point at which the machine will attach the button to the work.

1,398,027. BUTTON-SETTING MACHINE. JOHN KELLY, Norfolk, Va., assignor to Kelly Button Machine Company, Inc., Norfolk, Va., a Corporation of Virginia. Filed Dec. 1, 1916, Serial No. 134,284. Renewed Aug. 26, 1921. Serial No. 495,717. 9 Claims. (Cl. 218—2.)

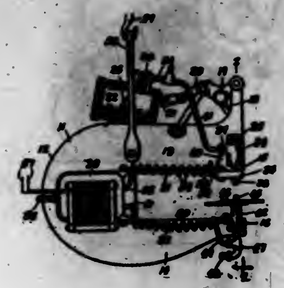


1. In a button setting machine, the combination with a raceway member, of a guard therefor, means for adjusting said guard relative to the raceway, and means for retaining said guard in its different adjusted positions comprising a spring actuated part capable of swinging movement from an operative position overlying the guard to an inoperative position at one side thereof.

1,398,028. PROCESS AND APPARATUS FOR WORKING METALS. FRANK P. KOSSUT, Amityville, N. Y., assignor to Kobert Machine Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 30, 1917. Serial No. 193,906. Renewed Feb. 24, 1921. Serial No. 447,554. 28 Claims. (Cl. 219—2.)

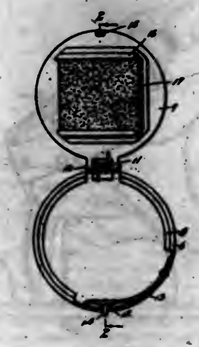
1. The method of working metal, which consists in suitably supporting a work piece in one electrode, moving another electrode into contact with said work piece to close

the circuit between said electrodes to heat said work piece, moving said heated work piece onto a stationary die, and



fashioning said work piece by a plunger die movable toward and from said stationary die.

1,396,029. TELEPHONE ATTACHMENT. JOHN P. LEE, Pleasantville, N. Y. Filed Apr. 20, 1920, Serial No. 375,252. Renewed Oct. 10, 1921. Serial No. 506,919. 1 Claim. (Cl. 179—185.)



A telephone attachment, including a movable cover, spaced stripe, forming a groove, attached to the inner face of said cover, said groove being adapted to receive an antiseptic wafer, and means for attaching said cover to the mouth piece of a transmitter.

1,396,030. DISPENSING APPARATUS FOR SANITARY DRINKING-CUPS. LAWRENCE W. LUELLEN, Mountain Lakes, N. J. Filed June 21, 1919. Serial No. 305,781. 5 Claims. (Cl. 206—65.)

1. A package of the character described comprising a stack of nested cups having projected edge portions, and a wrapper therefor drawn taut about said stack throughout the stack and preventing free movement of any of the cups relative to the wrapper when the end of the package is open to form therein interior indentations to individually receive the rims of all of the cups of said stack, substantially as described.



1,396,031. HOG-EATING POULTRY-PROTECTOR OR HOG-MUZZLE. THOMAS LYNCH, Jefferson, Iowa. Filed Apr. 30, 1920. Serial No. 377,835. 2 Claims. (Cl. 119—131.)



1. A device of the class described comprising a single piece of wire bent to form laterally spaced loops and also spaced arms extending downwardly from said loops, together with rings by means of which said loops may be pivotally attached to the nose of an animal, said arms being of sufficient length to project below the level of the animal's mouth when so attached, said arms being bent forwardly at obtuse angles between their ends at points substantially on the level of the lower edge of the animal's snout.

1,396,032. INCANDESCENT LAMP AND METHOD OF MAKING THE SAME. OSCAR V. MAURER, East Cleveland, Ohio. Filed Mar. 10, 1919. Serial No. 281,671. 17 Claims. (Cl. 176—36.)



9. The combination of a globe, a tubular mount carried thereby, a tubulating tube within the mount, the upper

end of the mount being fused to the tube, a bushing within the tube and projecting above it and a filament standard carried by the bushing, there being a lateral opening from the bore of the bushing to the outside between the upper end of the mount and the lower end of the filament standard.

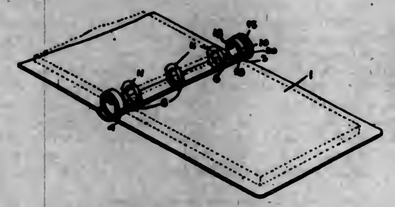
15. The method of making incandescent lamps, comprising inserting a metal bushing into the end of a glass tube, placing said tube and the leading wires within a tubular mount, heating and squeezing the upper end of the mount onto the tube to make a fused connection therewith, while the tube is maintained from collapsing by its internal bushing, securing a standard to the bushing, mounting the filament on the standard and connecting it with the leading wires, securing the mount to the globe, and exhausting the globe through the tube.

1,396,033. METHOD OF MAKING INCANDESCENT LAMPS. OSCAR V. MAURER, East Cleveland, Ohio. Filed Apr. 23, 1919. Serial No. 292,071. 6 Claims. (Cl. 176—7.)



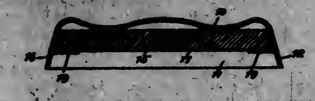
5. The method of making incandescent electric lamps comprising taking a globe having a cylindrical tube formed as part of it and extending from it and in open communication with it, forming a mount with a glass disk as its base and leading wires extending through such disk and a filament carried by the leading wires, the external diameter of the glass disk being only slightly smaller than the internal diameter of the tube, and the filament being small enough to pass through such tube, the disk having a central hole through it, inserting means carrying the mount from the exterior into the tube with the disk positioned in the tube adjacent to the globe, then heating the tube and pinching it onto the mount while externally holding the mount and while preventing the central opening therein from collapsing, then withdrawing the holding device, and then exhausting the globe through the same tube and sealing off such tube beyond the base of the mount.

1,396,034. LOOSE-LEAF BINDER. FRANK K. MIMO, Malden, Mass. Filed Mar. 19, 1921. Serial No. 453,815. 7 Claims. (Cl. 129—1.)



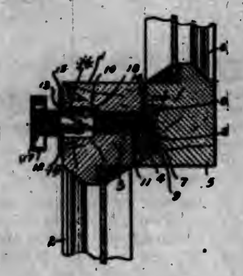
1. A temporary binder comprising a pair of nesting cylindrically curved plates having a plurality of pairs of cooperating segmental abutting ring sections extending from their opposite edges and means for causing relative rotation between said plates about an axis substantially concentric with the axis of their curvature.

1,396,035. BRUSH-BACK. WILLIAM MORRISON, Troy, N. Y. Filed Sept. 1, 1920. Serial No. 407,810. 2 Claims. (Cl. 15—29.)



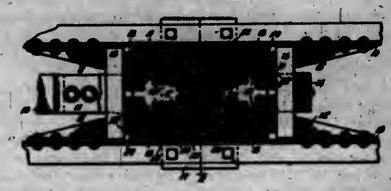
1. In a brush back, a plate of comparatively light weight material arranged in a recessed metallic plate, the plate being of a size whereby a groove is provided between its edge and the wall of the recess of the back as well as being of considerably less thickness than the depth of the recess of the back and the exposed face of the plate being roughened and strips having one of their ends secured to spaced parts of the wall of the recess of the back and the second end parts being bent over in lapping arrangement upon the roughened face of said plate.

1,396,036. SASH-FASTENER. CHARLES W. NICHOLS, St. Louis, Mo. Filed Dec. 4, 1920. Serial No. 428,902. 1 Claim. (Cl. 292—251.)



In a sash lock including a screwthreaded locking member normally held in a passive position by spring action, an internally-screwthreaded member for receiving the bolt to complete a positive lock, said internally-screwthreaded member adapted for disposition in an opening provided in a sash whereby to conceal the same, and a plurality of prongs integrally formed on said member whereby to positively attach said member to a sash irrespective of the size or configuration of the recess for receiving the same.

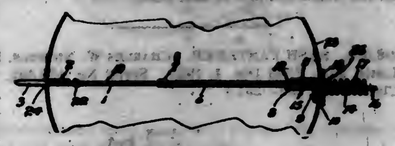
1,396,037. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Apr. 21, 1920, Serial No. 375,462. Renewed Oct. 3, 1921. Serial No. 505,116. 6 Claims. (Cl. 213—64.)



2. In a friction shock absorbing mechanism, the combination with a friction shell having openings in the walls thereof and interior longitudinally extending friction surfaces; of a pair of combined friction shoes and wedges slidably mounted within said friction shell, each wedge-shoe

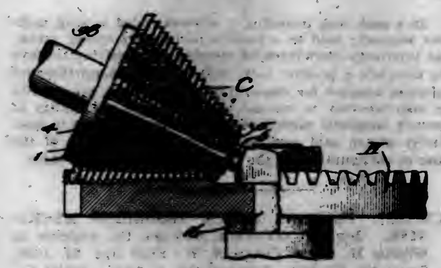
having an outer friction surface cooperating with a fixed inner surface of the shell and also an inclined friction surface at its inner end, each wedge-shoe having also an outwardly extending flange at its inner end providing a shoulder, the flanges of the wedge-shoes extending within the wall openings of the shell and cooperating with the edges of the latter to limit the outward movements of the wedge-shoes with respect to the shell, internally movable friction shoes within the shell, said shoes having wedge shaped ends coöperable with said wedge-shoes; and spring means interposed between the internally movable shoes.

1,398,038. DAMPER CONSTRUCTION. THOMAS OLIVER, Holland Mich., assignor to Federal Stamping Company, Holland, Mich., a Corporation of Michigan. Filed Aug. 11, 1921. Serial No. 491,891. 10 Claims. (Cl. 126—292.)



1. In combination, a damper disk, a tail piece member having a pointed extension at one end connected to the disk, a handle member attached to the disk in alinement with and partly covering the tail piece member, a handle, and means for detachably connecting the handle to the outer end of the handle member.

1,398,039. CUTTER FOR GENERATING SKEW BEVEL-GEARS. CARL G. OLSON, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a Corporation of Illinois. Filed Nov. 24, 1920. Serial No. 426,293. 5 Claims. (Cl. 29—104.)



1. A cutter for generating skew bevel gears, said cutter having the general form of a cone and having teeth facing the apex of the cone.

1,398,040. RIBBON-METER. STEPHEN H. PARRISH, Grand Rapids, Mich. Filed May 17, 1917. Serial No. 169,188. 6 Claims. (Cl. 33—147.)

1. In combination, a supporting structure, a pointed prong secured to and spaced a distance from said structure, a rod slidably mounted on the structure and yieldingly bearing against the prong, there being a series of lines of indicating characters carried by said structure, means connected to the rod and operable over the indicating characters whereby on insertion of the prong under a thickness of ribbon wound on a core and engagement of the rod against the outer surface of the ribbon said means is carried to a point over the indicating characters indicative of the amount of material, and means controlled by the insertion of one thickness of ribbon between the prong



and rod for determining the selection of the line of indicating characters to which the pointer bears reference with respect to the ribbon, substantially as described.

1,398,041. POULTRY-FEEDER. CONSTANT J. PERREYE, Calicoon, N. Y. Filed Oct. 25, 1920. Serial No. 419,288. 2 Claims. (Cl. 119—52.)

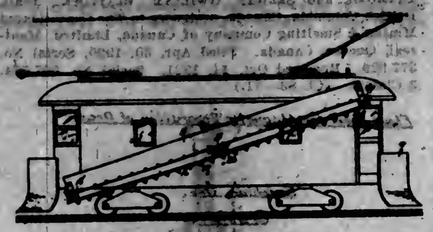


1. A poultry feeder comprising a hopper of rectangular formation in cross section and provided at its lower end with a rearwardly inclined front wall and side walls having forwardly and downwardly inclined bottom edges, said front wall terminating above the lower ends of the side walls, and a feed trough consisting of a wire mesh basket projecting from the front of said hopper at the lower end thereof and provided with a rearward extension secured to the rear wall of the hopper and at its side edges to the bottom side edges of the side walls.

1,398,042. APPARATUS FOR REMOVING SNOW. JAMES PULLAR, Hartford, Conn. Filed Apr. 16, 1920. Serial No. 374,880. 18 Claims. (Cl. 37—60.)

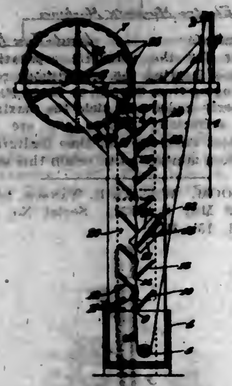
1. A snow remover comprising a portable base, a conveyer tube mounted on said base, an endless conveyer mounted to travel with one reach substantially parallel

with the wall of said tube and is positively driven in proximity a combined spiral for supply of heat evenly for



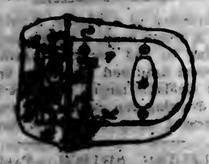
the entire length of said tube, and means to supply heat to said conveyer as it travels through said tube.

1,398,043. CLOTH-HANDLING DEVICE. ALBERT RAU, Clifton, N. J., assignor to United Piece Dye Works, Inc., a Corporation of New Jersey. Filed Feb. 5, 1921. Serial No. 442,044. 14 Claims. (Cl. 8—19.)



1. The combination with means for drawing cloth upward, of means for forcing water against the cloth near the top of its path so that it may flow downward along the upwardly moving cloth, fixed edges by which the cloth is guided so that it is diverted from a straight line in both directions, and fixed deflectors extending from the edges for bringing the down-flowing water against the cloth from each side.

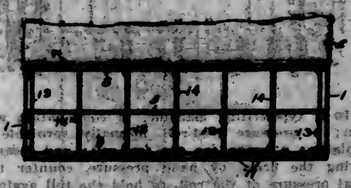
1,398,044. LOCK. MORRIS BERNSTEIN, New York, N. Y. Filed June 5, 1920. Serial No. 386,666. 15 Claims. (Cl. 70—46.)



1. In a lock mechanism, a striker plate, a projection carried thereby having an enlarged portion, a bolt movable in parallelism with said plate in a vertical plane and having an opening to permit of the passage of the enlarged portion of said projection, said bolt

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1,398,045. EGG-CARRIER. JAMES B. SIRS, Pittsburgh, Pa. Filed Aug. 9, 1920. Serial No. 402,139. 4 Claims. (Cl. 217—38.)



1. In an egg carrier, the combination with an inclosing casing, of a filler adapted to be positioned in the casing, said filler including a longitudinally extending member having a base portion and a vertical partition wall, and a second member intersecting with the first member and coöperating therewith to form bins, said second member having a plurality of spaced apart, vertically and transversely extending portions and inclined bottom portions connecting the said spaced apart transversely extending portions, and having a plurality of slots by means of which the second member may straddle said first member.

1,398,046. GLASS-ROLLING MECHANISM. JACOB SOMMARGO, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed July 21, 1919. Serial No. 312,131. 11 Claims. (Cl. 49—34.)



10. In combination in glass rolling mechanism, a table, a roll, supporting tracks extending along the sides of the table on which the roll rests, means for rotating the roll to cause it to move back and forth along the table, and means for automatically lifting the roll from the tracks when it reaches one extreme of movement, comprising a tilting cradle provided with rollers for engaging the roll and supporting it for rotation.

1,398,047. BIN-GATE. RICHARD H. STEVENS, Philadelphia, Pa. Filed Oct. 7, 1920. Serial No. 415,353. 16 Claims. (Cl. 193—48.)



1. The combination with a hopper provided with an opening therein, of a closure therefor, comprising a member adapted to agitate by rolling contact against the material therein.

1,396,648. TYPEWRITING-MACHINE. Bowman C. Sickner, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 22, 1919. Serial No. 332,472. 22 Claims. (Cl. 197—127.)



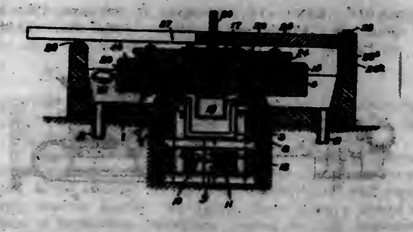
1. In a typewriting machine, in combination with a platen; a pressure feed-roll normally revolvable with the platen; a brake for the feed-roll; and means for applying the brake by hand pressure, counter to the normal pressure of the roll, to hold the roll against rotation while the platen is moved.

1,396,649. DREDGE-FRAME BUSHING. William Wilmer Swayne, Jr., Wilmington, Del., assignor to American Manganese Steel Company, Augusta, Me., a Corporation of Maine. Filed July 30, 1921. Serial No. 488,577. 3 Claims. (Cl. 64—10.)



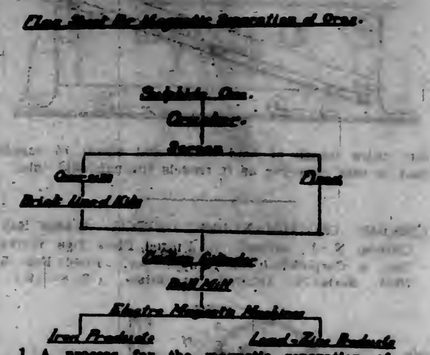
3. A bushing formed with end flanges, an internal integral key and outstanding spaced lugs carried at one extremity of said bushing and defining a slot therebetween.

1,396,650. METHOD FOR PRODUCING FLAT PARALLEL-SIDED GLASS SHEETS. William H. Taylor, Charleroi, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Dec. 5, 1918. Serial No. 265,441. 6 Claims. (Cl. 51—278.)



1. The process of securing a plate of glass to a flat bed which consists in applying the plate to the bed, forcing a mixture of plaster and liquid between the plate and the bed, and allowing the plaster to set.

1,396,651. PROCESS FOR THE MAGNETIC SEPARATION OF ORES. Clarence Tyrrell Ralph William Dearden, and Selwyn Gwillym Blaylock, Trail, British Columbia, Canada, assignors to The Consolidated Mining & Smelting Company of Canada, Limited, Montreal, Quebec, Canada. Filed Apr. 30, 1920, Serial No. 377,929. Renewed Oct. 14, 1921. Serial No. 507,774. 3 Claims. (Cl. 29—71.)



1. A process for the magnetic separation of ores which consists of heating the ore without roasting to a temperature ranging from 600° F. to 1200° F. which when the ore is properly cooled will yield the maximum susceptibility, then artificially cooling the ore under such conditions of heat exchange and time limitations ranging from five to fifteen minutes as to retain this susceptibility.

1,396,652. BROOM. William B. Wanson, Locust Valley, N. Y. Filed May 3, 1921. Serial No. 466,574. 3 Claims. (Cl. 15—19.)



1. The combination of a handle, a thimble at the end of the handle, a broom head, a clamp consisting of flared jaws conforming to and engaging against the opposite sides of the broom head and a resistant bridge connecting said jaws, and yieldable means housed within the handle and normally drawing the clamp into the thimble to be thereby compressed upon the broom head.

1,396,653. ELECTRIC SWITCH. Paul F. Woollenweber, Toledo, Ohio, assignor to Electric Auto-Lite Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Apr. 25, 1918. Serial No. 230,712. 6 Claims. (Cl. 200—78.)

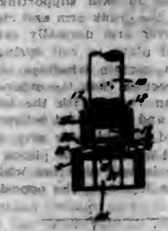
1. In an electric switch, the combination of a casing, having a pair of contacts secured thereto, a rod slidable

in said casing, a sleeve loosely mounted on said rod, a member carried by said sleeve and adapted in one position to bridge said contacts, a spring tending to hold said member away from said contacts, latching means carried



by said casing for holding said sleeve against movement in either direction and means on said rod for releasing said latching means when the rod is moved to a predetermined position.

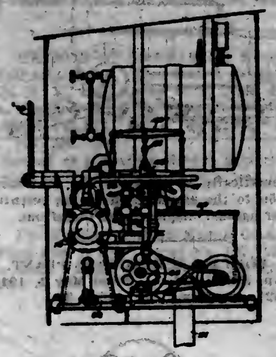
1,396,654. SOCKET-WRENCH. Walter A. Asmus, Los Angeles, Calif., assignor of one-half to Baldwin Reinhold, Los Angeles, Calif. Filed July 16, 1919. Serial No. 311,187. 2 Claims. (Cl. 81—177.)



1. In a wrench of the character described, a socket having a recess, a shank having an end adapted to fit into said recess so as to rotate said socket when said shank is rotated, and means for expanding the end portion of said shank end so as to grip said socket, said means embodying a tapered hole diametrically through said end portion a slot parallel to said hole and between said hole and the end of said shank, and a taper pin in said hole and means to prevent removal of said pin from said hole.

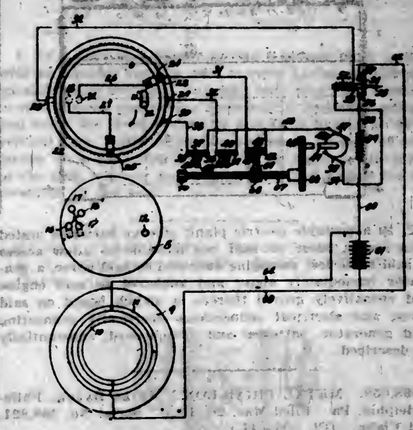
1,396,655. GAS-MAIN CONTROLLER. Joseph Van Ackeren, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 19, 1920. Serial No. 373,000. 17 Claims. (Cl. 48—191.)

1. In a pressure regulator for gas mains, in combination: a member movable in response to fluctuations in pressure in a gas main; a pilot valve actuated by said movable member; an amplifying relay valve actuated by fluid pressure controlled by said pilot valve; a motor actuated by a fluid pressure line controlled by said relay valve; and means for transmitting power from said motor



to the controlling valve of the gas main; substantially as specified.

1,396,656. SYSTEM AND APPARATUS FOR CONTROLLING MOTORS. Albert K. Allison, Tappan, N. Y. Filed Oct. 6, 1920. Serial No. 415,665. 9 Claims. (Cl. 172—8.)



7. A controlling device for motors, comprising a threaded shaft actuated by said motor, a circuit associated with said motor, a source of energy for said circuit, a plurality of switches in said circuit, a carrier mounted on said shaft and moved thereby, a brake associated with said shaft, a plurality of levers cooperating with said brake, and means on said carrier selectively adapted through its movement to actuate a switch and one of said brake levers whereby the motor circuit is opened and the brake is applied to the shaft substantially simultaneously.

1,396,657. VEHICLE WORK-STAND. George William Anderson, Elizabeth, N. J. Filed Apr. 28, 1921. Serial No. 465,093. 4 Claims. (Cl. 254—89.)

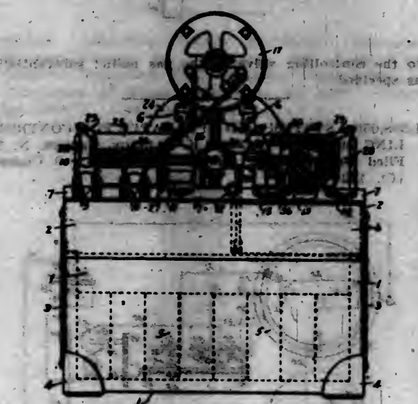
1. In a vehicle repair stand, a frame including tread rails having adjustable connection therebetween for the accommodation of vehicles having various tread widths,

adjustable and detachingagainst means for supportively supporting the frame in horizontal or inclined planes, and



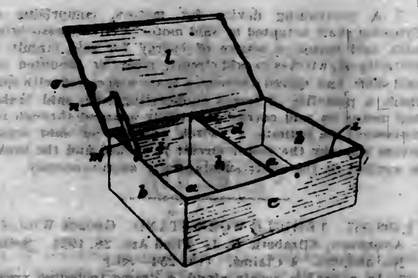
means automatically operable by the movement of the vehicle up on to the stand to effect the retention of the same thereof against displacement therefrom.

1,398,058. PORTABLE ELECTRIC PLANT. EDWARD L. AUBAND, Detroit, Mich. Filed May 1, 1918. Serial No. 231,827. 8 Claims. (Cl. 290—38.)



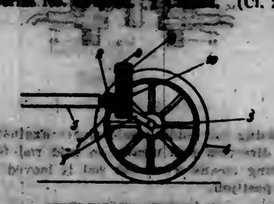
2. In a portable electric plant, storage batteries nested in a box, a cover on said box movable to allow access to said batteries, an engine anchored to said cover, a generator immediately above and anchored to said engine and operatively geared thereto, a switch board on said cover, and electrical connections electrically connecting said generator, batteries and switchboard, substantially as described.

1,398,059. METAL CIGAR-BOX. MEYER BATUK, Philadelphia, Pa. Filed Mar. 26, 1920. Serial No. 368,821. 1 Claim. (Cl. 206—41.)



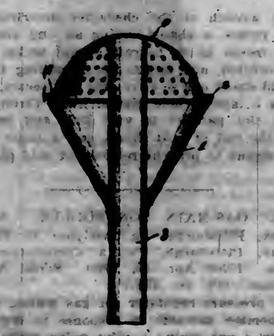
A package comprising an outer thin sheet metal box having a bottom, a front wall, a rear wall, end walls and a lid, a removable transverse sheet metal partition and straight reinforcing member extending from front to rear of the box, substantially parallel to the ends of the box, said partition having a flange at each end, the one flange extending along the front of the box, while the other extends along the back of the box, said flanges maintaining the partition in an upright position, and cigars in the box on both sides of the partition, said cigars extending parallel to the partition and maintaining the partition normal to the front and back of the box, so that said partition will be maintained in a position to exert its maximum resistance against the front and back of the box to prevent inward bending of the front and back of the box, and thereby protect the cigars against longitudinal crushing.

1,398,060. SUSPENSION FOR VEHICLES. CHARLES LÉOPOLD BECK, Lyon, France, assignor of one-half to Arthur Gebauer, Paris, France. Filed Aug. 20, 1920. Serial No. 404,201. 7 Claims. (Cl. 280—124.)



1. A motor vehicle comprising in combination a vehicle frame, a short axle carrying one wheel, a crank arm connected at one end to the said short axle and inclined in an upward and forward direction therefrom, a supporting member embodying a cylinder and secured to the vehicle frame, a spindle rigidly secured to the crank arm and pivotally supported in said supporting member, a lever arm shorter than the crank arm and rigidly secured to the spindle, said lever arm normally extending in a substantially horizontal plane, a coil spring tending to depress said lever arm, certain windings of said spring having a larger cross section than the others so that the flexibility of the spring varies with the load, a piston guided in the cylinder and interposed between the coiled spring and the free end of said lever arm, said cylinder containing a liquid, and means on the piston whereby the piston is free to move in one direction while its movement is checked by the liquid in the opposite direction.

1,398,061. CLOTHES-POUNDER. CHARLES BOWMAN, Washington, D. C. Filed Apr. 7, 1921. Serial No. 459,219. 1 Claim. (Cl. 68—5.)



A clothes pounder comprising a hollow body having a circular open end, a hollow perforated semispherical mem-

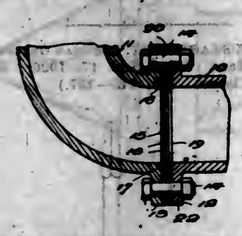
ber secured to the body said having its outer portion extending beyond the body, the edges of such member extending into the open end of the body and being spaced therefrom.

1,398,062. CENTRIFUGAL PROPELLER. CHARLES D. BROOKS, Brooklyn, N. Y. Filed Jan. 21, 1921. Serial No. 438,902. 6 Claims. (Cl. 170—159.)



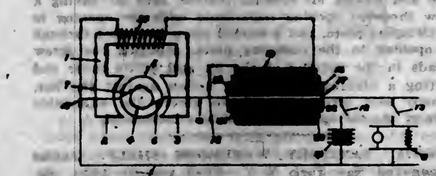
1. A propeller having a recess therein, adjacent the hub thereof, a passage leading therefrom outwardly from the hub through the propeller, a return passage communicating with the first passage and with the recess and a suitable weight disposed in the recess adapted for being centrifugally moved outwardly through the passage, thence returned to the recess, substantially as described and for the purposes set forth.

1,398,063. MIXER FOR GAS-ENGINES. CLIFFORD C. BROWN, Cartersville, Ga. Filed May 16, 1919. Serial No. 297,574. 1 Claim. (Cl. 48—180.)



A gasket as specified comprising a pair of plates and an intermediate packing sheet arranged between the plates, one of said plates having an integral perforated central portion and the other plate and packing sheet having a central opening in register with the perforated portion of the first plate, one of the plates having outstanding lugs about the central portion and the other plate having apertures for the passage of said lugs, the lugs being adapted to extend through said apertures and to be turned over against the outer face of the plate through which the lugs pass for holding the plates together with the packing sheet therebetween, said plates and sheet having registering openings for receiving clamping bolts when the gasket is disposed between a carbureter and manifold.

1,398,064. CONTROL FOR DYNAMO-ELECTRIC SYSTEMS. ALVIN E. BUCHENBERG, Toledo, Ohio, assignor to Electric Auto-Lite Corporation, Toledo, Ohio, a Corporation of Delaware. Filed May 13, 1918. Serial No. 234,206. 5 Claims. (Cl. 171—229.)

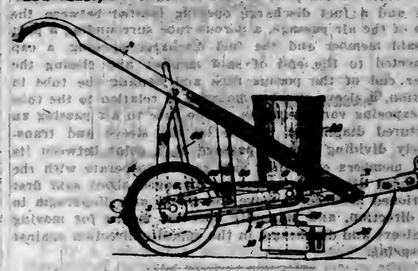


1. In a regulator, the combination of a series of contiguous carbon plates, a controlled circuit connected therewith, a metallic member for binding said plates together, a controlling circuit and means whereby the current in said controlling circuit is caused to heat said metallic member to thereby release the pressure on said plates.

1,398,065. METHOD OF PREPARING STORAGE-BATTERY SEPARATORS. CAMPBELL C. CARPENTER, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Feb. 14, 1921. Serial No. 444,736. 2 Claims. (Cl. 204—29.)

1. The method of preparing storage battery separators which consists in treating wood with a lead compound.

1,398,066. PLANTER. EUGENE MACON COBB, Charlotte, N. C. Filed Feb. 7, 1917, Serial No. 147,153. Renewed Oct. 13, 1921. Serial No. 507,566. 6 Claims. (Cl. 221—125.)



1. In a planter, a hopper having a bottom plate formed with an annular runway, said runway having a discharge opening therethrough, a flat seed ring rotatably mounted in said runway and having horizontally projecting peripheral teeth, the lower portion of said teeth having an outer vertical face, while the upper portion is beveled off uniformly on a concentric arc and at an angle to the plane of the ring, whereby an annular trough is formed for the reception of the seed.

1,398,067. CARBURETER. HENRY CRAWH, New York, N. Y. Filed June 21, 1916. Serial No. 104,238. 10 Claims. (Cl. 26—51.)



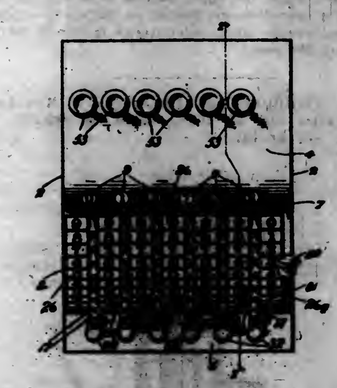
1. In a carbureter, a casing having an air inlet and a charge outlet, a shiftable diaphragm adapted to separate the inlet and outlet, said diaphragm being perforated to permit communication between the inlet and outlet, a stationary element coöperating with the diaphragm to form

a valve device controlling such communication, a pressure-fuel sleeve within the casing and supplied with liquid fuel, and means operating in synchronism with said diaphragm for exposing said sleeve to the air passing through said diaphragm when the latter is shifted, said sleeve and diaphragm being relatively positioned so that the exposure of the sleeve varies in accordance with movement of the diaphragm.

2. In a carburetor, a casing having an air inlet and a charge outlet, a shiftable diaphragm adapted to separate the inlet and outlet, said diaphragm being perforated to permit communication between the inlet and outlet, a stationary element cooperating with the diaphragm to form a valve device controlling such communication, and means for exposing a hydrocarbon supply to the air passing through said diaphragm when the latter is shifted, said means including a hood adapted to isolate the supply when the valve device is closed.

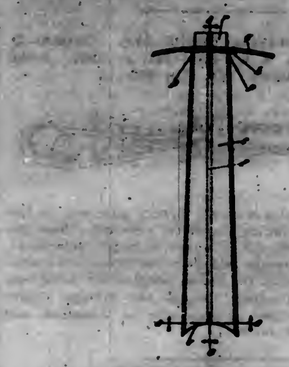
10. In a carburetor for internal combustion engines, the combination of a body providing an air passage, a member located in the passage and provided with a fuel passage and a fuel discharge opening located between the ends of the air passage, a porous tube surrounding a part of said member and the fuel discharge opening, a cap connected to the end of said member and closing the upper end of the porous tube and holding the tube in position, a sleeve slidably mounted in relation to the tube for exposing variable areas of the tube to air passing an apertured diaphragm carried by the sleeve and transversely dividing the air passage at a point between its ends, members carried by said cap to cooperate with the apertured diaphragm, a spring arranged about said first mentioned member to move the sleeve and diaphragm in one direction, and manually operated means for moving the sleeve and diaphragm in the opposite direction against the spring.

1,398,068. COMPUTING-MACHINE. Fred H. Dodds, Grand Rapids, Mich., assignor, by mesne assignments, to William D. Bleick, Newark, N. J. Filed Mar. 16, 1917. Serial No. 155,251. 14 Claims. (Cl. 235—60.)



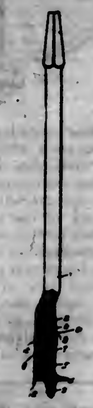
1. In a computing machine, a casing provided with a plurality of spaced horizontal openings in the top thereof and with vertical slots below each opening, a horizontal ledge to the casing below said slots, an indicating disk rotatably mounted back of each opening in the casing, an oscillatory operating quadrant rotatably mounted inside of the casing and extending through each slot, mechanism connecting each quadrant and a disk for turning the disk on operation of the quadrant in a downward direction, means yieldingly holding each quadrant in upper position, and means for operatively engaging each quadrant at a plurality of points on its outer surface.

1,398,069. HAND-WHEEL. Horace Wallace Dodge, St. Johns, England. Filed Sept. 30, 1920. Serial No. 412,091. 5 Claims. (Cl. 74—23.)



1. An arm for a hand wheel bent from a sheet metal blank, the marginal portions of said blank being inturned and forming a diaphragm within the arm, substantially as set forth.

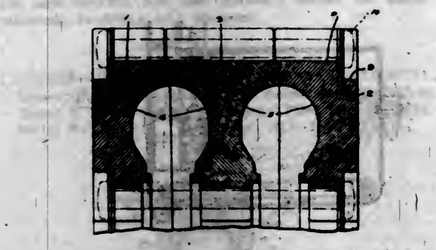
1,398,070. ADJUSTABLE BIT. Thomas Gregory Doyle, Fall River, Mass. Filed Nov. 17, 1920. Serial No. 424,660. 3 Claims. (Cl. 145—127.)



3. A bit having a longitudinal dove-tailed groove therein, a bar adjustable in said groove, a spur at one end of the bar, a laterally adjustable cutting plate having a spur at its end, a clamping plate engaging the cutting plate and having an opening therein, said bit having a screw threaded opening registering with the opening in the clamping plate, and a headed screw projected through the opening in the clamping plate, engaging the screw threads in the opening of the bit and at its inner end exerting a binding or jamming action against the bar, whereby said screw operates to secure the adjustable parts of the bit against independent movement.

1,398,071. SANITARY WARDROBE-SHELF. James Fonseca, New York, N. Y. Filed Aug. 31, 1920. Serial No. 407,079. 3 Claims. (Cl. 211—27.)

1. In a wardrobe shelf construction, the combination with a main shelf and its extension, of means to support the main shelf upon and spaced from the wardrobe walls, and means to subsequently secure the extension at one



end to a wall of the wardrobe and at its other end to the free edge of the main shelf.

1,398,072. CAMERA. Thomas Gallo, New York, N. Y. Filed Oct. 23, 1919. Serial No. 332,653. 5 Claims. (Cl. 95—32.)

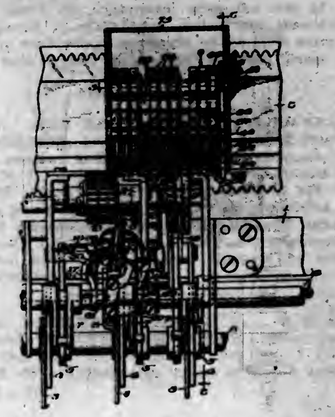


1. In a camera, the combination with the lens carrying portion thereof having at its rear open face guideways for the reception of a plate holder, of a frame having members for engaging the said guideways and provided with a ground glass, and with a cloth hood secured thereto and terminating in an oblong sight opening.

1,398,073. DUPLEX MOLD. Henry R. Gilson, New Rochelle, N. Y., assignor to The Hartford Rubber Works Company, a Corporation of Connecticut. Filed Dec. 17, 1920. Serial No. 431,374. 3 Claims. (Cl. 18—38.)

1. A portable tire mold unit having three or more sections whose contiguous faces are provided with complementary grooves shaped to define a plurality of cavities for the reception of tires, and means on the outermost sections for receiving clamping members of a length less than the distance between the outer surfaces of the outermost mold sections when assembled.

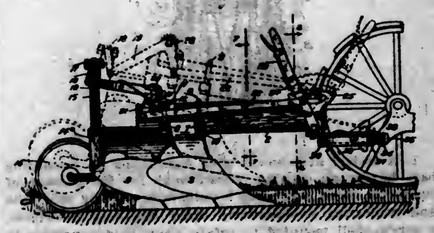
1,398,074. ALGEBRAIC-TOTAL CALCULATING-MACHINE. Hyman-Ely Goldberg, (now by judicial change of name Hyman Goldet,) Chicago, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 26, 1913, Serial No. 786,705. Renewed Sept. 24, 1921. Serial No. 503,073. 27 Claims. (Cl. 235—59.)



5. In a calculating machine, the combination of: a plurality of carrying wheels; actuating means adapted to engage said carrying wheels serially; means for giving said actuating means an added unit of movement as an incident of the passage of the highest carrying wheel through zero, said added unit of movement being given only when said carrying wheels are in a certain position relative to said actuating means.

23. In a calculating machine, the combination of a plurality of totalisers; an algebraic-total mechanism therefor, said algebraic-total mechanism being composed of two parts, the first of said parts being duplicated for each of said totalisers and being fixed relative to each of said totalisers; the other part being movable in respect to said totalisers and traveling from totaliser to totaliser.

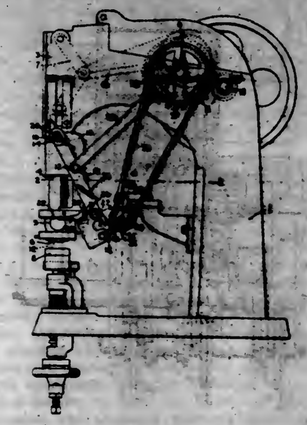
1,398,075. PLOW. Ralph Bebee Hartsough, Minneapolis, Minn., assignor to Flour City Plow Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Apr. 4, 1919. Serial No. 287,490. 10 Claims. (Cl. 97—67.)



1. The combination with a cylindrical plow beam, of a saddle block having a recess in its upper surface fitting against the surface of said beam, means clamping said block against the surface of the beam, said clamping means admitting of adjustment for progressive increase of clamping tension of the block against the beam, standards

projecting downwardly from said blocks, and plows carried by said standards, said blocks constituting a right angle connecting one standard to the other and securing both to the beam.

1,398,076. MARKING-MACHINE. Chosen H. Lang and Elmer L. Lang, Boston, Mass. Filed Apr. 7, 1921. Serial No. 459,287. 5 Claims. (Cl. 101—321.)



1. In a marking machine, the combination with a work support, of a vertically-movable printing head, arms rising from the printing head, an ink roll carrier pivotally connected to said arms, an ink roll mounted in said carrier, means to swing the carrier to carry the ink roll across the face of the type supported by the printing head, and means associated with the printing head to cause said ink roll to have a right line movement while it is passing over the type face.

1,398,077. SWIVEL ATTACHMENT-PLUG. Peter S. McLean, Bloomfield, N. J., assignor, by mesne assignments, to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 25, 1917. Serial No. 164,519. 19 Claims. (Cl. 173—359.)



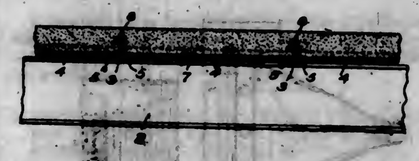
1. A swivel attachment plug comprising an insulating base having an opening therethrough for the passage of conductor cords, electrical terminals carried by said base and projecting substantially equal distances therefrom, a screw shell mounted to rotate about said terminals in electrical engagement with one of them, an insulating spacer adapted to be inserted within the shell to rotatably hold the same in place and engaging the ends of the terminals to prevent the spacer binding the shell against rotation, and means carried by the spacer electrically connected to the other terminal for holding the parts together and forming a center contact.

1,398,078. SANITARY CAP. Richard H. Hinrichs, Brooklyn, and Minna H. Linsen, Mount Vernon, N. Y., assignors to The Rhuloid Company, Brooklyn, N. Y., a Copartnership consisting of Edward K. Madan and Philip H. Hinrichs, Brooklyn, N. Y., and Elsie P. Lesine, Mount Vernon, N. Y. Filed Dec. 24, 1918. Serial No. 268,082. 1 Claim. (Cl. 170—135.)



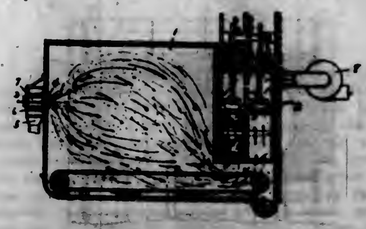
A sanitary cap of the class described comprising a central convexo-convex body portion approximately hemispherical in form and provided with a central aperture, the periphery of said body portion being provided with a spring rim formed by a backwardly and inwardly curved flange.

1,398,079. ROOF STRUCTURE. Herbert E. Mabie, Sewickley, Pa. Filed Aug. 31, 1920. Serial No. 407,189. 3 Claims. (Cl. 108—6.5.)



1. A roof of the character described, comprising purlins, metal angle members supported on the purlins and presenting oppositely projecting flanges, small metal angle members located intermediate the purlins and extending between the first named angle members and resting on the flanges of the latter, and also presenting oppositely projecting flanges, thin composition boards supported at their sides on the flanges of the first named angle members and at their ends on the flanges of the second named angle members, metallic reinforcement supported on the second named angle members, and a cementitious slab molded in place on the composition boards to such thickness as to project materially above the first named angle members.

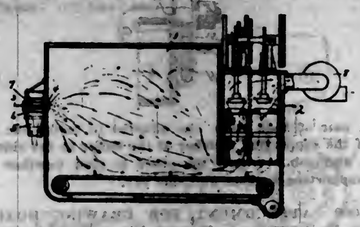
1,398,080. PROCESS OF TREATING JUICE AND PRODUCT. Irving S. Mesmer, Syracuse, N. Y., assignor to Merrell-Soule Company, Syracuse, N. Y., a Corporation of New York. Filed Sept. 11, 1919. Serial No. 323,207. 4 Claims. (Cl. 99—5.)



1. A substantially dry powdered product in the form of spherical particles and comprising fruit material combined with starch.

3. The process of drying fruit juice comprising combining fruit juice with starch, atomizing the solution so formed into a current of moisture absorbing air and separating the resultant substantially dry product from the air and vapor.

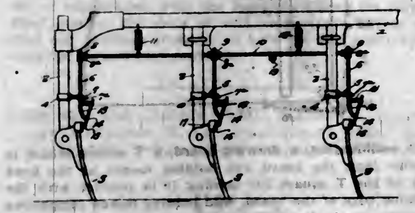
1,398,081. PROCESS OF TREATING JUICE AND PRODUCT. Irving S. Mesmer, Syracuse, N. Y., assignor to Merrell-Soule Company, Syracuse, N. Y., a Corporation of New York. Filed Sept. 11, 1919. Serial No. 323,208. 6 Claims. (Cl. 99—5.)



1. A substantially dry powdered product in the form of spherical particles and comprising fruit material combined with gelatinized starch.

3. The process of drying fruit juice comprising combining fruit juice with gelatinized starch, atomizing the solution so formed into a current of moisture absorbing air and separating the resultant substantially dry product from the air and vapor.

1,398,082. SHOVEL-SCRAPER. Guy E. Scott, Delhi, Minn. Filed Nov. 13, 1920. Serial No. 423,830. 1 Claim. (Cl. 97—3.)



In a scraper for gang of shovel plows, vertical carrying rods, a resiliently supported, longitudinal rod connecting said carrying rods, metallic straps pivotally connected to the curved lower extremities of said carrying rods and angularly disposed toward the same, transverse substantially narrow, flat scraping elements pivotally connected to said metallic straps and embracing the face and sides of the shovels, resilient springs normally retaining said scraping elements in contact with the said shovels, and foot operated means for simultaneously actuating said scrapers.

1,398,083. PIPE-COUPLING. Frank L. Tibbetts, Somerville, Mass., assignor, by mesne assignments, to Elmer S. Stack, Somerville, Mass. Filed Dec. 15, 1919. Serial No. 344,814. 11 Claims. (Cl. 285—51.)

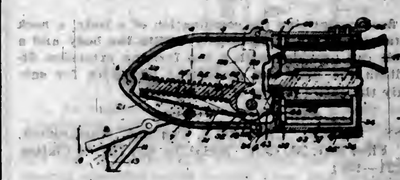


1. A coupling for attaching devices to plates, comprising, in combination, a neck for insertion through a hole in the plate substantially larger than said neck, a flange on said neck substantially larger than the hole in the plate and having a bead oblique to the plane of said flange for threaded engagement with the margin of the plate surrounding said hole to enable the flange to pass through said hole from one side of the plate to the other on a rotary screw motion of said flange, a sleeve threaded to said neck having an end portion adapted to fit in the hole in the plate to center the neck and flange with respect to said hole, a washer on said sleeve for engagement with the side of said plate opposite to said flange, and a nut threaded to said sleeve for holding the margin of the plate surrounding the hole therein tightly between said flange and washer.

1,398,084. ACID-RESISTING PAINT OR VARNISH COMPOSITION, &c. Leonard Wickenden, Flushing, N. Y., assignor to Industrial Chemical Company, New York, N. Y., a Corporation of New York. Filed July 12, 1919. Serial No. 310,412. 5 Claims. (Cl. 134—51.)

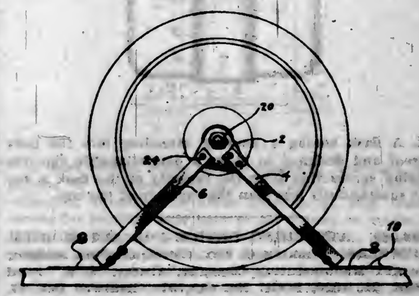
4. The paint or varnish composition comprising substantially completely chlorinated base material including chlorinated petroleum asphaltum and incorporated chlorinated hydrocarbon material dissolved in volatile solvent therefor.

1,398,085. FIREARM. Benjamin H. Ball, U. S. Army, assignor to Newton D. Baker, Secretary of War, trustee. Filed Dec. 24, 1918. Serial No. 268,172. 7 Claims. (Cl. 42—59.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. In a firearm, the combination, with the hammer, of a combined sear, hammer driving spring support and hammer-cocking member engaging said hammer, toward the bottom of the rear edge thereof; and a trigger mechanism for moving said combination member to cock and release the hammer and to compress the hammer driving spring.

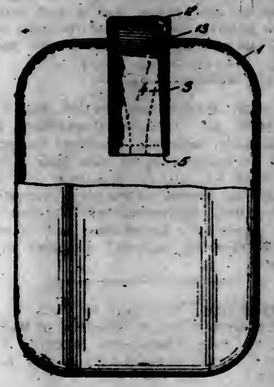
1,398,086. AUTOMOBILE-SUPPORT. Albert E. Cooney, Detroit, Mich., assignor to Dodge Brothers, a Corporation of Michigan. Filed Mar. 5, 1921. Serial No. 450,010. 5 Claims. (Cl. 188—32.)



1. An automobile support comprising, in combination, a member adapted to engage the automobile near one end of

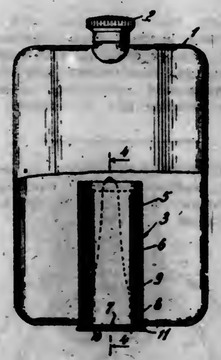
an axle thereof, and legs extending from said member to support said member in bowed relation to it and to each other, one of said legs being pivotally connected to said member.

1,398,087. FLASK. CHARLES NEWTON CORTELL, Mamaroneck, N. Y. Filed Jan. 26, 1921. Serial No. 439,991. 8 Claims. (Cl. 221—93.)



1. A flask comprising the combination of a body, a neck of substantial length lying largely within the body and a removable cap provided with a cup forming extension fitting within the neck and contacting therewith for substantially the entire length of the extension.

1,398,088. FLASK. CHARLES N. CORTELL, Mamaroneck, N. Y. Filed Mar. 23, 1921. Serial No. 454,797. 6 Claims. (Cl. 221—93.)



1. A flask having a housing extending into the body thereof and designed to house a non-collapsible cup, the housing subtracting from the capacity of the flask a volume substantially less than the capacity of the cup.

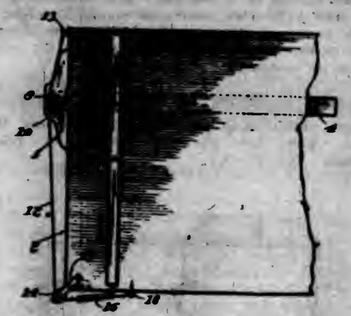
1,398,089. ATTACHING DEVICE FOR AUTOMOBILE-BUFFERS. WILLIAM G. COX, Cleveland, Ohio, assignor to Cox Manufacturing Company, Albany, N. Y. Filed Sept. 21, 1920, Serial No. 411,797. Renewed Oct. 17, 1921. Serial No. 508,394. 4 Claims. (Cl. 293—55.)

3. In a device for attaching buffers to the frame of an automobile, a clip having a hook formed at each end thereof, one of said hooks adapted to engage the supporting member of the buffer, the other having an opening through each side thereof adapted to engage the shank of a bolt;



and a pair of hook bolts, one adapted to fasten the rear end of the supporting member of the buffer to the side bar of an automobile frame, the other to bind together said clip, supporting member and side bar.

1,398,090. ATTACHMENT FOR DRAWING-BOARDS. CARL F. DIECKMANN, Chicago, Ill., assignor to Eugene Dietzgen Company, Chicago, Ill., a Corporation of Delaware. Filed June 28, 1920. Serial No. 392,388. 1 Claim. (Cl. 33—76.)



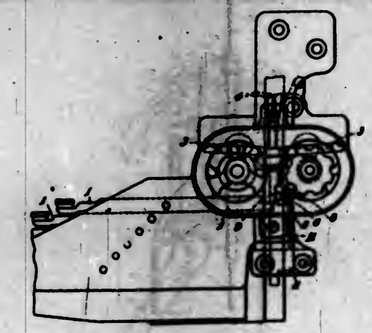
In combination, a drawing board, a T square which is shorter than the board and holding means at the head only of the T square for holding it in contact with the working edge of the board, said holding means comprising a sheave on the head of the T square, a cord fastened to the board at one end of the working edge and training thence around the outside of said sheave, a second sheave at the opposite end of the working edge of the board, and a coiled extension spring adjacent to but approximately at right angles to the working edge and lying in the plane of the board, said spring being anchored at one end to the board and at the other end fastened to the cord for holding it trained around said second sheave.

1,398,091. CLAMP. MAX A. DOELCKNER, Louisville, Ky. Filed Aug. 5, 1920. Serial No. 401,396. 1 Claim. (Cl. 24—132.)



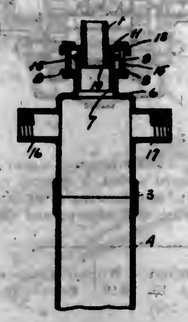
A clamp for the purpose described, consisting of two jaws pivoted together at one end thereof, a clamp lever pivoted at one end to the non-pivoted end of one of said jaws, and a link having at one end a pivotal connection with said lever eccentric of the jaw and lever connection, and at its other end a pivotal connection with the adjacent end of the other jaw, so adapted that when the jaws are forced together by said lever, any movement of the jaws tending to open the same will tend to force the jaws closer together.

1,398,092. KEYBOARD MECHANISM OF TYPOGRAPHICAL COMPOSING AND OTHER KEY-CONTROLLED MACHINES. TOM BURNS, Broadheath, England, assignor to Linotype and Machinery Limited, London, England. Filed Sept. 10, 1920. Serial No. 409,379. 4 Claims. (Cl. 199—18.)



1. In a locking device for a keyboard mechanism such as described, the combination with the members to be locked, of a longitudinally movable bar adapted to engage said members, a support on which the bar is longitudinally movable, and pin and slot connections between the support and bar serving to move the bar edgewise into and out of engagement with the members during its longitudinal motion, the slots of said connections having parallel end portions arranged to hold the bar positively in either of its terminal positions.

1,398,093. GAS CASING HEAD. WILLIAM J. DROPPLEMAN, McWherter, W. Va. Filed Mar. 11, 1921. Serial No. 451,457. 3 Claims. (Cl. 166—14.)



1. A casing head comprising a body formed of tubing exteriorly threaded at its lower end and having its upper portion cut to form longitudinal tongues, the base portions of said tongues being bent inward and united to form a top and the outer portions bent upward and united to form a restricted passage adapted to receive a leading off pipe.

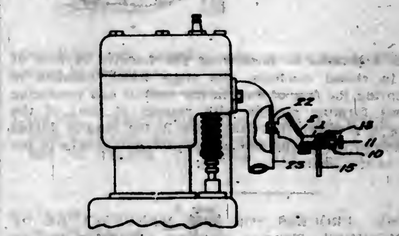
1,398,094. LOCK AND SEAL FOR CAR-DOORS. HAYES H. DUNCAN and CLEVELAND C. WILLOUGHBY, Philadelphia, Pa. Filed Aug. 9, 1920. Serial No. 402,165. 8 Claims. (Cl. 292—89.)

1. In combination with a car door having an opening to receive a key, a perforated holder on the inside of the door to receive a seal to obstruct the opening, means for retaining the seal within said holder, and a lock on the inside of said door operable by a key inserted through said opening after the seal is ruptured, said holder having an



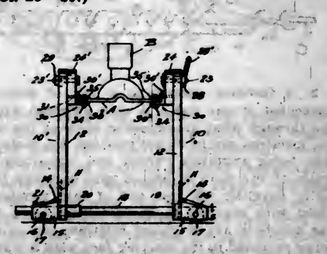
open top with an overhanging flange to receive the seal beneath it, said retaining means being a block fitted to the holder to retain the seal under said flange, substantially as described.

1,398,095. ATTACHMENT FOR MOTORS. GEORGE W. FORKNER and ALFRED ARMBRUSTER, Detroit, Mich. Filed Aug. 12, 1919. Serial No. 317,093. 2 Claims. (Cl. 123—25.)



1. An engine attachment comprising a body having a longitudinal bore extending therefrom and defining an inlet opening at one end and an outlet opening at the opposite end, a needle valve controlling the inlet opening, a suction operated valve spaced from and controlling the outlet opening and a normally open drain valve communicating with the bore between the suction valve and outlet opening and adapted to be closed when the suction valve is opened.

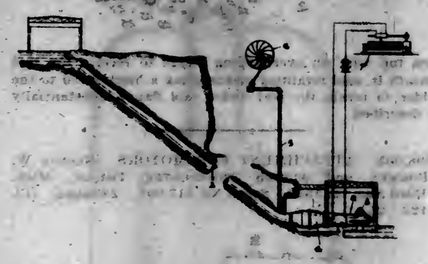
1,398,096. WORK-HOLDING STAND. CHESTER FRAIR, Seattle, Wash. Filed Mar. 10, 1920. Serial No. 364,709. 1 Claim. (Cl. 29—89.)



A work-holding stand of the character described comprising, in combination, a pair of frames, a pair of bars extending through the lower portions of said frames, means for securing said bars to the frames to retain the latter in different positions of adjustment; apertured bearing blocks rigid with the upper ends of said frames, one of said blocks being provided with recesses disposed radially of the block aperture, work-supporting blocks, means for securing work thereto, bolts extending through apertures of the bearing blocks and the supporting blocks for pivotally connecting the supporting blocks to the re-

spective frames, and a tongue provided on one of said supporting blades and engaging in selected of the aforesaid recesses for retaining the respective supporting blade in various predetermined rotary positions.

1,398,097. MEASUREMENT OF THE FLOW OF FLUIDS IN CLOSED CONDUITS. NORMAN R. GIBSON, Niagara Falls, Ontario, Canada. Filed Feb. 19, 1919. Serial No. 278,000. 2 Claims. (Cl. 324—34.)

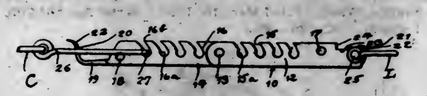


2. In a process of measuring the velocity of flow of fluids in closed conduits, the steps which consists in interrupting the flow of fluid in the conduit and producing diagrams forming records with respect to time of the changes of pressure that take place in the conduit during the interruption of the flow at two different points in the length of the conduit.

1,398,098. PROCESS FOR THE MANUFACTURE OF EXPLOSIVES. THOMAS HAWKINS, Slatington, Pa., assignor of one-half to Chauncey R. H. Rex, Slatington, Pa. Filed June 28, 1921. Serial No. 481,077. 6 Claims. (Cl. 52—7.)

1. The herein described detonating and explosive compound comprising the reaction product of picric acid, a lead oxid, and a soluble nitrate.

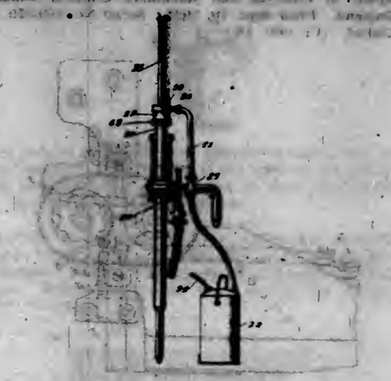
1,398,099. CHAIN-FASTENER. CHARLES F. HOLTZER, Hotchkiss, Colo. Filed Feb. 19, 1921. Serial No. 446,276. 2 Claims. (Cl. 24—68.)



2. A fastener comprising a pair of members pivotally connected at one end and each provided with slots opening through what are opposing edges of the members when the members are in closed relation, the slots of said members being arcuately curved and oppositely inclined, the walls of the slots of one of said members being substantially parallel, the free end of said members being provided with coacting faces, said faces being engaged when the members are in closed relation, one of said members being provided in its coacting face with a transverse recess permitting the insertion of a tool between the members to separate the same when the members are in closed position.

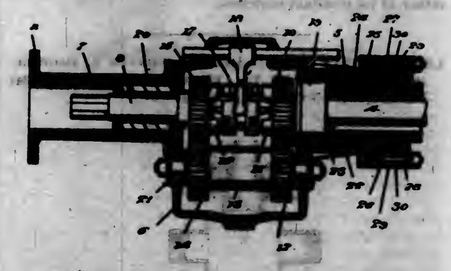
1,398,100. WATER-RIGGING FOR STOPING-DRILLS. WILLIAM HENRY JOYCE, Leadville, Colo. Filed Nov. 5, 1919. Serial No. 335,780. 1 Claim. (Cl. 255—49.)

The combination with a drill including a cylinder, of a cylindrical support telescoping and adjustably secured to the front head of said cylinder having a reduced drill shank receiving and guiding opening at its outer end and a recess adjacent to said and provided with an internally threaded inlet and an internally threaded outlet the latter inclined with respect to the longitudinal axis of the



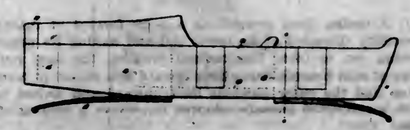
cylinder, an axially bored nozzle plug screwing into the outlet, a delivery pipe having a nipple screwing into the inlet and fluid supply means with which the said pipe is in communication.

1,398,101. TRANSMISSION MECHANISM. DON L. KIMBALL, Portland, Oreg., assignor to Universal Transmission Co., Seattle, Wash. Filed Dec. 9, 1920. Serial No. 429,503. 4 Claims. (Cl. 74—56.)



1. In combination, a shaft housing, a gear casing having a sleeve with a tapered socket, a tapered cuff embracing and rigidly secured to said housing to fit into said socket, and means for drawing said housing and casing together.

1,398,102. AUTO-BODY. WILLIAM LINQUIST, Cleveland, Ohio. Filed July 15, 1919. Serial No. 310,882. 1 Claim. (Cl. 296—28.)



In a vehicle construction, a body including a bottom, sides and ends, spaced relatively wide U-shaped reinforcing members secured within and extending transversely across the body, angle irons secured within the corners of and connecting said members, and extending longitudinally of the body, whereby a supporting frame is provided for connection with the springs of a vehicle.

1,398,103. YARN-GUIDE MECHANISM FOR KNITTING-MACHINES. HENRY LOCKEY, Lakewood, Ohio, assignor, by direct and mesne assignments, of one-third to Henry J. Huntington and one-third to Stephen W. Lippitt. Original application filed July 12, 1917, Serial No. 180,042. Divided and this application filed June 18, 1919. Serial No. 305,003. 6 Claims. (Cl. 66—12.)



1. In a knitting machine, the combination of a needle bed, needles therein, a reciprocating cam carriage provided with cams for operating the needles, a yarn guide movable longitudinally in a path to guide the yarn to the needles, means whereby said yarn guide is operated by the cam carriage, said yarn guide being displaceable out of said path to a position where it will not be operated by the cam carriage, means independent of the cam carriage for displacing the yarn guide, and a pattern chain controlling the operation of said means.

1,398,104. SPRING SUSPENSION FOR VEHICLES. JOHN LJUNG, Alexandria, Minn. Filed Nov. 24, 1920. Serial No. 426,183. 9 Claims. (Cl. 257—39.)



7. In a spring suspension for vehicles, a body frame for receiving and sustaining the vehicle body, a chassis outside of the body frame, means connecting the chassis to the vehicle axle, levers individually connecting the axle and the body frame together, and fulcrum connections between the levers and the chassis, said connections being located at a point between the ends of the levers.

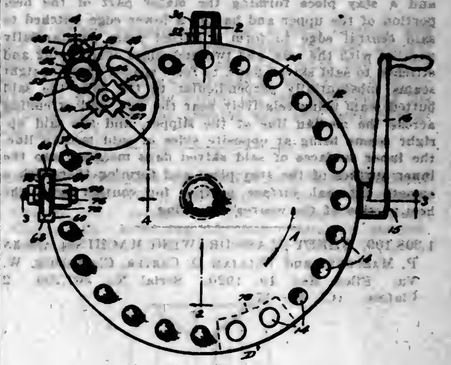
1,398,105. ANTIRATTLING DEVICE. REUBEN G. McCOMMON, Goodland, Kans. Filed Sept. 19, 1921. Serial No. 501,470. 1 Claim. (Cl. 123—90.)

The combination with a valve push rod and a valve lifter lock, of a bearing adjustably mounted on the valve push rod, and a tapered coil spring bearing at its upper end on said bearing, and at its lower end seated on the



valve lifter lock, together with means for locking said bearing in position.

1,398,106. CARTRIDGE-RELOADING MACHINE. WILBUR R. McGEE, Seattle, Wash. Filed Oct. 4, 1920. Serial No. 414,628. 10 Claims. (Cl. 86—23.)

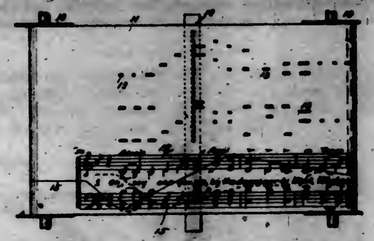


1. In a cartridge reloading machine, the combination with a rotary case-carrier, an operating shaft, and means actuated by the shaft for imparting intermittent rotary motion to said carrier, of a spring actuated case-elevator controlled by said shaft to automatically supply cartridge cases to said carrier between the successive impulses of the carrier, tensioned means operated by said case elevator for receiving the cases in an inclined position and shifting same to a vertical position for reception in the rotary case carrier, and devices actuated by the rotation of said shaft for releasably securing the carrier in positions to receive the cartridge cases.

1,398,107. PERFORATED AND OTHER SHEET MUSIC. THOMAS McKIM, Portland, Oreg. Filed May 20, 1909, Serial No. 497,150. Renewed July 29, 1920. Serial No. 399,393. 5 Claims. (Cl. 84—163.)

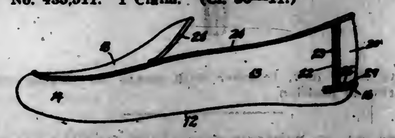
1. A keyboard musical instrument adapted for operation by perforated sheets, having a tracker bar and sheet-

engaging rollers, said bar and rollers being supported above the keyboard with their longitudinal axes in planes



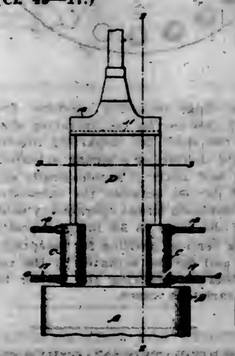
that extend from front to rear of the instrument and from top to bottom thereof.

1,398,108. MOCCASIN-SLIPPER. JOHN KENNETH McQUINN, Brockton, Mass. Filed Jan. 6, 1921. Serial No. 435,511. 1 Claim. (Cl. 36—11.)



A slipper of the character stated, comprising a sole and portions of an upper, formed in a single piece, which is provided at one end with a central curved edge, and with narrow skived flaps at opposite ends of said central edge, and a stay piece forming the major part of the heel portion of the upper and having a lower edge stitched to said central edge to form a butted seam substantially parallel with the sole, and two end edges overlapping and stitched to said skived flaps, to form spaced apart upright seams substantially perpendicular to the sole, the said butted seam being relatively near the sole, and extending across the median line of the slipper, and the said upright seams being at opposite sides of said median line, the inner surfaces of said skived flaps merging into the inner surface of the stay piece and forming therewith a smooth internal surface portion for contact with the heel portion of the wearer's stocking.

1,398,109. SHEET-GLASS-DRAWING MACHINE. ORLAN P. MARCOMBE and WILLIAM O. CARTER, Clarksburg, W. Va. Filed Mar. 19, 1920. Serial No. 367,200. 2 Claims. (Cl. 49—17.)



1. In a machine for manufacturing sheet glass, a furnace, means for drawing the molten glass from the furnace, water jackets arranged immediately above the molten mass and at the opposite sides of the furnace, said jackets being designed to receive the edges of the sheet in a manner whereby the edges are cooled and hardened, and also thickened so as the sheet glass lying between the edges is afforded straightness and uniformity in width, and a water inlet and outlet for each jacket.

1,398,110. SNAP-POCKET FOR TRUCK-STAKES. TONY S. MILLER, Ryde, Calif. Filed Dec. 7, 1920. Serial No. 428,919. 8 Claims. (Cl. 296—43.)



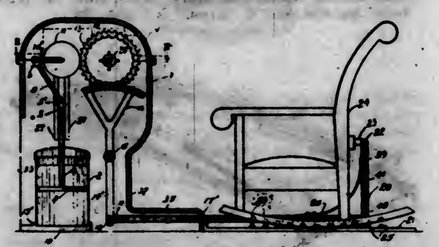
1. The combination with a truck having a stake holder pocket, of a supplemental holder disposed below said main holder and having means for locking engagement with a stake seated in the main holder, the supplemental holder being yieldable in the direction of the main holder.

1,398,111. SHEARS. EDWARD O'NEIL, Wakefield, Mich. Filed July 9, 1920. Serial No. 395,043. 2 Claims. (Cl. 7—6.)



1. A support, a mount, a tracing wheel pivoted thereto, said mount including a head that has two right-angular surfaces and which has its ends provided with trunnions, a flat spring having a bifurcated end formed with hooks that engage the trunnions, a securing element for the spring, and said element being adjustable whereby to regulate the tension of the spring with respect to the engagement of the hooks thereof with the trunnions.

1,398,112. CHURN-OPERATING MECHANISM. JOSEPH PANIK and STEVE CLEMO, West Park, Ohio. Filed May 16, 1921. Serial No. 470,174. 1 Claim. (Cl. 74—14.)

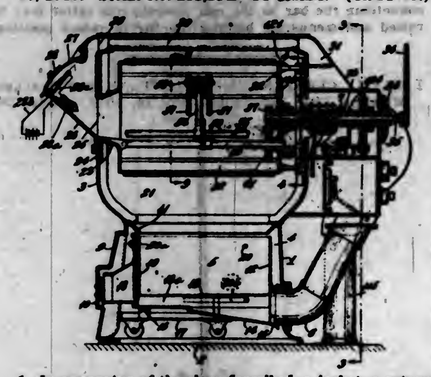


In a churn operating mechanism, of a receptacle, a member to be actuated disposed within the receptacle, guide strips upon the inner side walls of the receptacle, a crank shaft journaled within the receptacle and adjacent the upper ends of the guide strips, a gear wheel keyed to said crank shaft, a segment gear pivotally mounted within the receptacle, connections between the segment gear, crank shaft gear and means externally of the receptacle for actuating said segment gear, comprising an open substantially rectangular frame rigidly attached to the receptacle, a member positioned for rocking movement upon the frame, vertical brackets centrally of the frame and adjacent one end thereof, a lever pivoted intermediate its ends to the upper ends of said brackets, said lever being pivotally mounted upon the said rocking member and a reciprocating shaft between the lower end of said segment gear and the said lever for purposes specified.

1,398,113. FERTILIZER AND METHOD OF PRODUCING THE SAME. CARL L. POTTER, North Fort Worth, Tex. Filed Jan. 7, 1921. Serial No. 435,692. 7 Claims. (Cl. 71—6.)

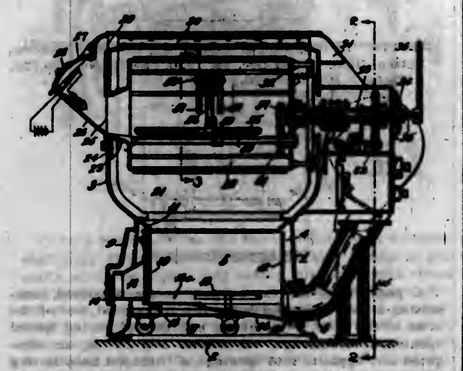
5. The method of producing a fertilizer which consists in covering fresh green vegetable growth with a layer of earth to maintain a constant temperature for a protracted period, then drying in exposure to the air, then saturating the dried material with a soured solution of fruit and vegetable products and commercial fertilizing materials, and finally drying.

1,398,114. APPARATUS FOR HEATING, ROASTING, AND COOLING FOOD PRODUCTS. HENRY PERLL, Cleveland, Ohio, assignor, by mesne assignments, to Frederick J. Kuhlemeier, Burlington, Iowa. Filed Apr. 27, 1918. Serial No. 231,234. 34 Claims. (Cl. 34—5.)



1. In apparatus of the class described, a jacket, a rotary drum located in the upper part of said jacket, a removable container located within the lower part of said jacket, said drum being adapted to discharge into said container and said container having an open top, a perforated false bottom and a lower chamber below said false bottom and provided with imperforate bottom and side walls, and means for establishing suction, one of the walls of said chamber having detachable connection with said suction-establishing means.

1,398,115. PROCESS OF ROASTING COFFEE. HENRY PERLL, Cleveland, Ohio, assignor to Frederick J. Kuhlemeier, Burlington, Iowa. Filed July 16, 1919. Serial No. 311,313. Renewed May 12, 1921. Serial No. 468,979. 5 Claims. (Cl. 34—24.)



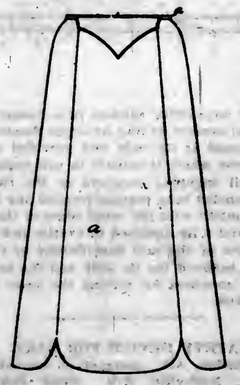
1. The process of roasting coffee, which consists in heating and agitating the berries in an inclosed chamber and establishing a slight circulation of air to remove from said chamber the major part of the moisture given off by the berries and thereafter browning the berries equally throughout the batch or mass thereof while confining the aromatic and caffein constituents of the berries within said chamber, so that the atmosphere therein becomes saturated with such constituents and will not absorb the remaining portion of them which are thus caused to remain in the berries.

1,398,116. ANGLE-WRENCH. CARLTON TITUS ROOT, Orland, Ind. Filed Oct. 9, 1920. Serial No. 415,929. 6 Claims. (Cl. 81—121.)



1. A wrench comprising a case, a shaft entering said case and having a gear thereon within the case, another shaft extending within the case for rotary and sliding movements and having a gear head to mesh with the aforesaid gear, and a spring within the case surrounding the second-named shaft for pressing said gear head against said gear.

1,398,117. PROCESS OF MANUFACTURING LADIES' READY-TO-WEAR CLOTHING. JACOB SCHWARTZ, Chicago, Ill., assignor to W. H. Rogers Company, Chicago, Ill. Filed Aug. 12, 1920. Serial No. 403,069. 2 Claims. (Cl. 2—42.)



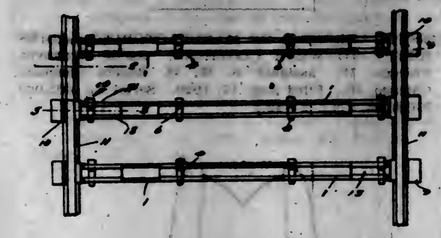
1. A ladies' ready-made nether garment having a substantially triangular reinforcement overlying the front in proximity to the waist line thereof for substantially the entire width thereof and secured thereto.

1,396,110. CUSPIDOR. Frank Green, San Francisco, Cal. Filed June 10, 1921. Serial No. 476,102. 1 Claim. (Cl. 4—40.)



A cuspidor including a basin let in an opening in a floor surface, having a central outlet, a water conducting pipe, a spray head therefor received in the basin, a valve controlling the passage between the pipe and spray head, an upstanding stem for the valve, spring means influencing the stem to hold the valve in closed position, a bowl in the basin having oppositely extending trunnions which are journaled in openings in the basin and on the bottom of the floor, spring means influencing the trunnions for holding the bowl in one position in the basin, said bowl having its rim notched to receive the neck of the spray head therein and the said bowl normally held in such position by said springs, ears on the rim of the bowl opposite the notch, segmental protector plates arranged in lapping relation on the floor over the rim of the bowl, spring means normally retaining the protector plates in such relation, and said plates designed to have their edges contacted by the eyes on the bowl when the latter is swung in the basin to emptying position to move the said plates away from each other to permit of such swinging of said bowl.

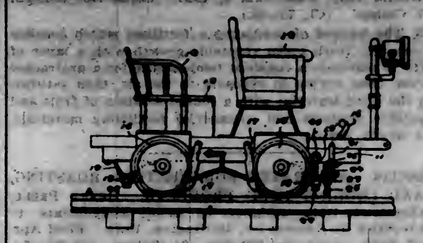
1,396,119. RAILROAD-TIE. William H. Taylor and William R. Watts, Bonner Springs, Kans. Filed June 25, 1921. Serial No. 480,296. 4 Claims. (Cl. 238—31.)



1. A tie for supporting railway rails comprising a channeled metallic member having its edges flanged outwardly, its base flattened at its ends and provided with longitudinal extensions which terminate in rail engaging flanges, removable rail engaging members in the tie body, each having a channeled body portion terminating in a shoulder designed to contact with the inner edges of the base flanges of the rails, and a lip designed to overlie and contact with the upper faces of the said base flanges of the rails, and wedge means between the tie body and the said removable rail engaging members for forcing the same in the direction of the rails.

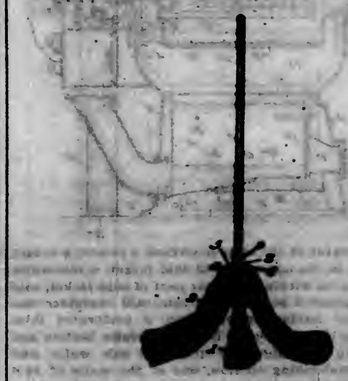
1,396,120. SAFETY DEVICE FOR CARS. Thomas M. Wallis, Gurdon, Ark., assignor of one-half to Andrew McCormick, Nashville, Ark. Filed June 19, 1920. Serial No. 390,218. 8 Claims. (Cl. 105—316.)

1. The combination with a railway car, of a bar disposed transversely thereof at each end of the car and normally arranged above the rails, means extending downwardly from each of the bars adjacent the side when the wheels of the car leave the track, means for pivotally



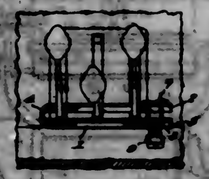
connecting the bar to the car, whereby the latter may be raised and means for holding the bar in raised position.

1,396,121. CLEANING IMPLEMENT. Claude M. Allen, Michigan City, Ind. Filed July 14, 1919. Serial No. 310,573. 1 Claim. (Cl. 15—20.)



Means for holding a mop to a broom comprising a pair of clamping members, each of curved formation to conform to the shape of the shoulders of the broom, for holding a portion of the mop to the shoulders of the broom, a bracket on the upper part of each member, said brackets having a curved central part and their ends flattened and provided with holes and bolts passing through the holes for clamping the two parts upon the broom.

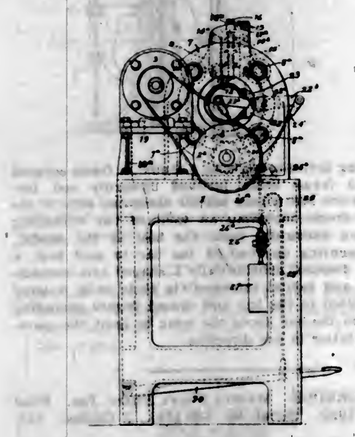
1,396,122. PEDAL-LOCK. Chas J. Benson, Gnadenhutten, Ohio. Filed Dec. 16, 1920. Serial No. 430,722. 5 Claims. (Cl. 70—126.)



A pedal lock, for the purpose herein described, comprising a pedal of angular bar-like material, one of the arms of the bar, adjacent the end thereof having spaced openings therethrough, the second arm having an elongated slot opposite said openings, a U-shaped loop having the arms slidable through the openings and designed to be

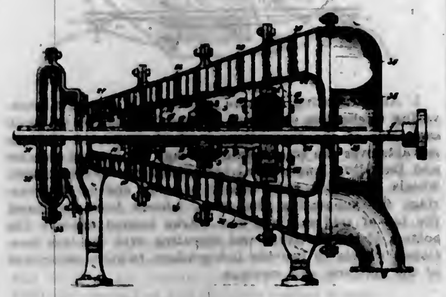
passed through the slot, a flat plate connecting the arms of the loop and designed to contact with the outer face of one of the arms of the yoke when the loop is passed through the slot in the second arm of the yoke, and said loop designed to receive the loop lock when in its last mentioned position.

1,396,123. MACHINE FOR CUTTING SECTIONS FROM TIRE-CASINGS. James W. Brundage, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 12, 1920. Serial No. 402,980. 16 Claims. (Cl. 164—60.)



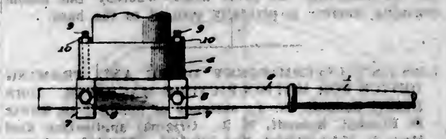
1. A machine for cutting sections from pneumatic tire casings comprising an arcuate last or mandrel adapted to support a tire, cutter means adapted to travel circumferentially around the same, and gripper means for engaging the edges of the tire.

1,396,124. TURBINE. Horace M. Cake, Philadelphia, Pa. Filed July 6, 1918. Serial No. 243,525. 7 Claims. (Cl. 60—102.)



1. In a turbine or the like the combination of a casing, stationary director blades carried by said casing, a plurality of rotors within said casing, blades on said rotors and adapted to pass between the stationary blades, a driving shaft comprising the support for said rotors, a power shaft, a pair of tubular shafts mounted on said power shaft, a differential gearing connecting said power shaft to said tubular shafts, and differential gearing connecting said tubular shafts to said rotors.

1,396,125. WRENCH. William Arthur Carleton and Clarence Erastus Yoho, Bellaire, Ohio. Filed Apr. 26, 1921. Serial No. 464,767. 1 Claim. (Cl. 81—90.)



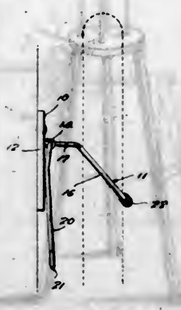
In a wrench for engaging the flanges of a coupling, pipe or the like, a handle having a rectangular extension providing a shank and said shank having spaced openings therethrough, jaws having arcuate toothed engaging faces arranged on the shank, said jaws having reduced extensions which are slotted and which receive the shank through the slots, said slots being of a width greater than that of the shank, pivot members passing through the jaws and certain of the openings in the shanks, and means securing said pivot members on the jaws.

1,396,126. CLAMP. Arthur Lewis Cochrane, Toronto, Ontario, Canada. Filed Aug. 22, 1921. Serial No. 494,248. 6 Claims. (Cl. 24—170.)



1. A clamp comprising a body member formed with a forwardly extending tongue and a rearwardly facing shoulder intermediate its ends forming a bearing; a clamp member formed as an open quadrangular frame, the rear part of the body member overlying the rear transverse member of the frame and forming a journal against which the bearing shoulder lies and having its outer end adapted to coöperate with the outer end of the tongue to form clamping means; a spring plate on the body member engaging over the journal, the latter being shaped to engage one of the contacting parts to tend to hold the clamp member in clamping position.

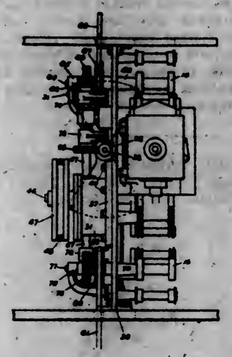
1,396,127. BROOM-HOLDER. William H. Collins, Meriden, Conn. Filed Mar. 15, 1921. Serial No. 452,577. 2 Claims. (Cl. 24—249.)



1. A broom hanger comprising an attaching plate, a broom engaging member pivotally secured thereon, said member being formed from a single strand of wire and bent to provide a downwardly inclined broom handle engaging loop, pivot arms extending from one end of the

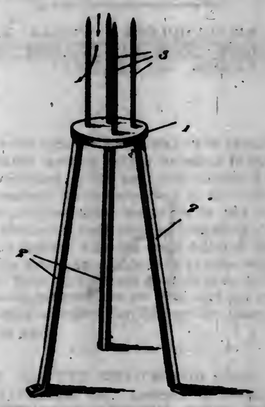
loop, a stop formed by an extension of one of the pivot arms and an operating arm formed by an extension of the other pivot arm and means carried by the attaching member for receiving the pivot arms, whereby the broom engaging member is pivotally secured to the base.

1,398,128. INTERMITTENT DRIVE AND FRAMING DEVICE FOR MOTION-PICTURE MACHINES. John Darby, Summit, N. J., assignor of one-half to Edwin F. Flindell, Summit, N. J. Original application filed Mar. 1, 1918, Serial No. 219,752. Divided and this application filed Mar. 19, 1919. Serial No. 283,558. 9 Claims. (Cl. 88—17.)



1. In a motion picture projecting machine using a film strip, continuously moving sprockets for said strip, an intermittently moving sprocket for said strip, a movement for said intermittent sprocket, a housing supporting said intermittently moving sprocket and completely inclosing said movement, and a vertical shaft passing through said housing to drive said continuously moving sprockets.

1,398,129. DEVICE FOR LOOSENING COMPRESSED MATERIAL. Joseph S. Dedrick, Racine, Wis. Filed Mar. 5, 1921. Serial No. 450,070. 1 Claim. (Cl. 19—9.)



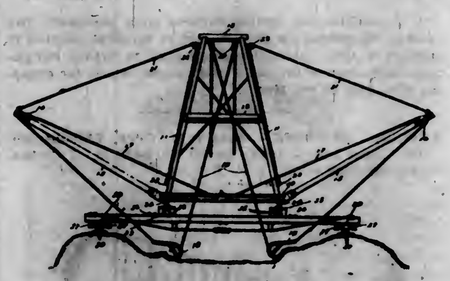
A device for loosening compressed material comprising a stand of small outline and unobstructed on all sides thereof, so that the operator can walk around said stand and use same from any side thereof, said stand including upwardly converging legs to be secured rigidly on a floor or base, a top plate of small outline secured on said legs, and a few relatively long prongs rising from said plate and spaced apart a relatively large distance.

1,398,130. SWIMMING APPLIANCE. Bruno Debi, New York, N. Y. Filed June 18, 1921. Serial No. 477,181. 1 Claim. (Cl. 9—21.)



A swimming device comprising a sandal, a frame secured thereto, said frame being inclined upwardly and forwardly from the heel of the sandal along one side of the latter, said frame including an inclined bar extending upwardly and forwardly from the heel of the sandal, means for securing one end of the bar to said heel, a transversely disposed substantially L-shaped arm connecting the bar and sandal intermediate their ends, a wing hingedly secured to the bar and spaced fingers extending laterally from the bar above the wing to limit the movement of the latter in one direction.

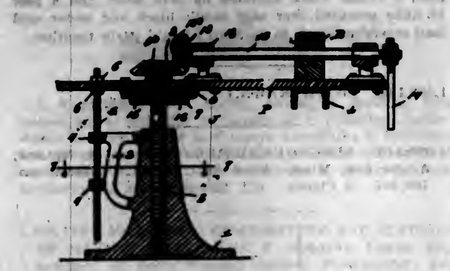
1,398,131. DREDGE. Marvin Evans, Pharr, Tex. Filed June 15, 1920. Serial No. 389,174. 2 Claims. (Cl. 37—55.)



1. An excavating machine embodying a platform, excavating mechanism supported thereby, tracks located upon each side of the excavation, a wheel supported carriage movable over the tracks, said carriage comprising a frame and including longitudinal beams and transverse beams, wheels journaled transversely of each end of the carriage for supporting the same, wheels journaled upon the top of said carriage and tracks located beneath the bottom of the platform and operating over the last mentioned wheels to provide independent relative movement of the platform and carriage.

1,398,132. JACK. Frank C. Healy, South Boston, Mass. Filed June 11, 1920. Serial No. 388,191. 1 Claim. (Cl. 254—87.)

A jack embodying a base member having a threaded bore, a screw engaging said bore, a frame secured to the screw, and including spaced longitudinal bars and a transverse connecting bar, said last mentioned bar being provided with an opening for the passage of the screw, an annular grooved flange connected to and surrounding the screw, a grooved disk connected to the transverse beam and provided with a race-way for anti-friction members, whereby the frame will be supported upon the screw in



a manner to permit of rotation of the latter and means connected to the screw and extending to one side of the frame, whereby the screw may be rotated.

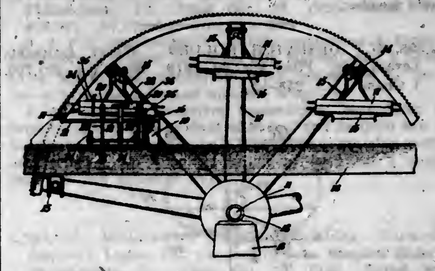
1,398,133. NOZZLE. Carl B. Hoarn, Philadelphia, Pa., assignor to Mary J. Holmes, Philadelphia, Pa. Filed Sept. 25, 1920. Serial No. 412,733. 3 Claims. (Cl. 299—145.)



1. In a nozzle, a tubular member having an opening at an intermediate point of its length for the emission of water and also having movable control means at the outer end of said member, in combination with means surrounding the tubular member and having longitudinal passages to receive water from said intermediate opening and a discharge in communication with said passages, and endwise adjustable tubular means in said surrounding means and equipped to control the discharge thereof and having an interior tapered portion arranged to limit the opening of said movable control means.

1,398,134. LOCKING MECHANISM FOR ROTARY CASTING-MACHINES. Archer A. Landon, Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill., a Corporation of New Jersey. Filed Dec. 14, 1916, Serial No. 137,088. Renewed Jan. 26, 1921. Serial No. 440,220. 14 Claims. (Cl. 22—75.)

1. In a machine of the character described, the combination of a carrier, and a support mounted thereon and free to move with respect thereto, with means movable in a plane at an angle with the plane of movement

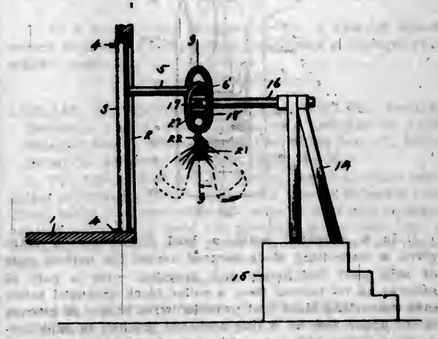


of the carrier for holding the support against movement relatively to the carrier, substantially as specified.

1,398,135. PROCESS FOR WORKING UP RESIDUARY AMMONIUM-CHLORID LIQUORS FROM THE AMMONIA-SODA PROCESS. Theodor Lichtenhahn, Basel, Switzerland, assignor to Elektrizitätswerk Lonza, Gampel and Basel, Switzerland. Filed May 28, 1921. Serial No. 473,378. 1 Claim. (Cl. 23—22.)

The herein described process for the working up of the residuary ammonium chlorid lyes of the manufacture of soda by the ammonia process, in order to gather the carbonates and chlorids contained therein separately and in a technically pure form, which consists in heating the lye in order to drive off the free carbonic acid and the carbonic acid combined with ammonia and to collect these latter as ammonium carbonates, concentrating the remaining lye, according to the quantities of sodium chlorid and of ammonium chlorid contained therein, to ½–⅔ of its volume, cooling it afterward below 25° C. and collecting the precipitated, technically pure ammonium chlorid by separating it from the liquid, evaporating further the said liquid, by heating it to the boiling point, to ½–⅔ of its volume, and separating the precipitated solid sodium chlorid from the mother-lye at a temperature as near as possible to the boiling temperature.

1,398,136. RAILROAD MAIL-TRANSFERRING DEVICE. Peter A. Lundberg, Mount Pleasant, Utah. Filed July 8, 1920. Serial No. 394,612. 4 Claims. (Cl. 258—17.)



1. Suspension means for a mail bag comprising a supporting member having an encircling groove and perforated inwardly of the groove and adjacent each end to permit of alternate use of such ends for purpose

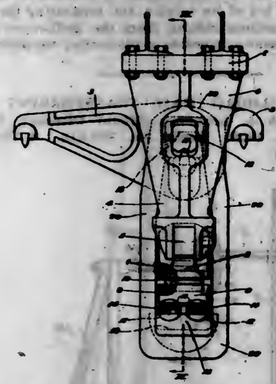
of supporting the bag in the mouth of the latter, and flexible tie means accommodated in said groove and providing means for connecting the mail bag to the said member.

1,398,127. DESPATCH-HOLDER. WILEY LUMBARD, Levasy, Mo. Filed Apr. 22, 1919. Serial No. 291,795. 1 Claim. (Cl. 258—2.)



Means for transferring despatches, including a standard, spaced arms fixedly connected thereto and constituting a loop holder, connected arms mounted to swing on the standard and between the stationary arms, spring means connected to the movable arms for shifting them normally to position between and parallel with the stationary arms, and means upon the stationary and movable arms for engaging loops and holding them to the arms and in lapped relation whereby a loop held between the stationary arms and engaging a loop held by the movable arms will hold said movable arms out of normal position and against the action of the spring.

1,398,138. SUSPENSION-BEARING. ROY A. MCCUNE, East Pittsburgh, Pa. Filed Jan. 15, 1921. Serial No. 437,399. 3 Claims. (Cl. 265—71.)



1. In a weighing scale, a load distributer, a main pivot, a connecting block secured across the bottom ends of said load distributer and provided with a pair of grooves on its bottom face, a roller block arranged below said connecting block and provided with a pair of grooves in its upper face on a line with the grooves in said connecting block, and a second pair of grooves in its bottom face extending at right angles to the grooves in its upper face, a pair of rollers mounted in said grooves between said connecting block and said roller block, a load receiving block member arranged below said roller block and provided with a pair of grooves in its upper face in line with the grooves in the bottom face of said roller block, a pair of rollers mounted in said grooves between said roller block and said load receiving block, a main lever passing through said load distributer, a saddle block mounted on said lever, and a pair of links mounted over said saddle block and under said load receiving block to hold all of said parts together.

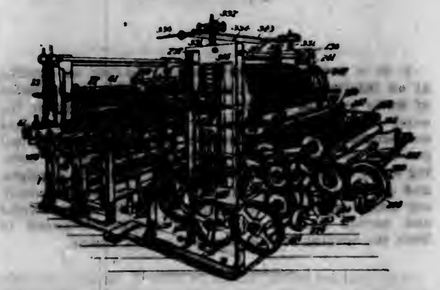
1,398,139. [WITHDRAWN.]

1,398,140. LUGGAGE-CARRIER. MORTON E. NELSON, Albert Lea, Minn. Filed Sept. 9, 1920. Serial No. 409,167. 4 Claims. (Cl. 224—29.)



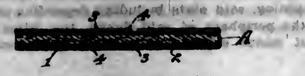
1. A luggage carrier for automobile running boards comprising two members, one of which is adapted to be attached to the running board and the other hingedly and slidably connected with the running board carried member, and coöperating means carried by said members to cause the partial raising of the hinged member when an outward pull is exerted thereon, a slight upward push by the operator causing said member to rise into complete vertical position, and means for locking it in such position.

1,398,141. MACHINE FOR PRODUCING COMPOSITE-METAL LATHS. FREDERIK NORSAGK, New York, N. Y., assignor to Composite Metal Lath Company, New York, N. Y., a Corporation of New York. Filed June 20, 1914, Serial No. 846,408. Renewed Oct. 6, 1920. Serial No. 422,366. 65 Claims. (Cl. 154—1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



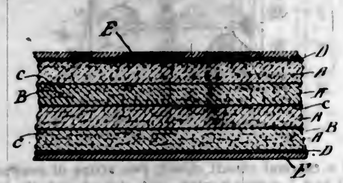
1. In a machine for making a composite metal lath of the character described, the combination with means for pressing together clay or other material and a wire fabric so as to embed the wire fabric in the material, of means for feeding the wire fabric and means for feeding the clay or other material separately to the pressing point.

1,398,142. PRINTING-PLATE MATRIX AND METHOD OF MAKING SAME. EMIL E. NOVOTNY, Logan, Pa., assignor to John Stogdell Stokes, Philadelphia, Pa. Filed Dec. 18, 1919. Serial No. 345,000. 9 Claims. (Cl. 154—46.5.)



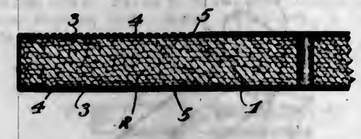
2. A printing plate matrix having a molding face embodying a plurality of layers of a phenolic condensation product, one of said layers containing a relatively low percentage of the phenolic condensation product while another of said layers contains a relatively high percentage of said product.

1,398,143. MOLDABLE COMPOSITION AND METHOD OF MAKING SAME. EMIL E. NOVOTNY, Logan, Pa., assignor to John Stogdell Stokes, Philadelphia, Pa. Filed Dec. 11, 1919. Serial No. 344,230. 11 Claims. (Cl. 154—46.5.)



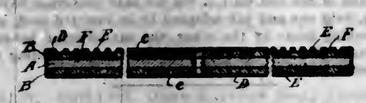
2. A molding composition comprising a hard, crisp and compressible body formed of an expanded fiber sheet having incorporated therein and reinforced by a relatively hard synthetic resin and an impression-taking face united with the reinforced fiber sheet.

1,398,144. MANUFACTURE OF SOUND-RECORDS. EMIL E. NOVOTNY, Logan, Philadelphia, Pa., assignor to John Stogdell Stokes, Philadelphia, Pa. Filed July 21, 1920. Serial No. 397,926. Renewed May 3, 1921. Serial No. 466,534. 9 Claims. (Cl. 18—48.4.)



1. A sound record comprising a supporting body having a grooved sound-reproducing face, and a sound-repelling barrier interposed between the grooved face and the supporting body.

1,398,145. SOUND-RECORD. EMIL E. NOVOTNY, Logan, Philadelphia, Pa., assignor to John Stogdell Stokes, Philadelphia, Pa. Filed July 21, 1920, Serial No. 397,927. Renewed May 3, 1921. Serial No. 466,535. 3 Claims. (Cl. 18—48.4.)



1. A sound record comprising a metallic reinforcing member, a fiber sheet impregnated with a hard and set synthetic resin united with said member, and a grooved face section with a hard and set synthetic resin imposed upon the fibrous sheet.

1,398,146. SYNTHETIC RESIN COMPOSITION. EMIL E. NOVOTNY, Logan, Pa., and DONALD S. KENDALL, Glen Ridge, N. J., assignors to John Stogdell Stokes, Philadelphia, Pa. Filed Oct. 27, 1920. Serial No. 419,937. 15 Claims. (Cl. 106—22.)

3. A new composition of matter comprising a fusible condensation product of phenol and furfural, and a hardening agent, said composition being convertible by heat into a hard, insoluble and infusible body.

6. A potentially reactive composition, comprising a fusible condensation product of phenol and furfural and a hardening agent comprising a methylene containing body, said composition being convertible by heat into a hard, insoluble and infusible body.

1,398,147. MOLDABLE COMPOSITE BODY. EMIL E. NOVOTNY, Logan, Pa., assignor to John Stogdell Stokes, Philadelphia, Pa. Filed Oct. 30, 1920. Serial No. 420,746. 12 Claims. (Cl. 91—68.)



1. A moldable composite body comprising a sheet-like body of fibrous material treated with a synthetic resin comprising a condensation product formed from reacting ingredients including furfural.

7. A moldable composite body comprising a sheet-like body of fibrous material impregnated with and having a surface coating of a partially reacted synthetic resinous material, comprising a condensation product formed from reacting ingredients, including furfural.

1,398,148. SOUND-RECORD. EMIL E. NOVOTNY, Logan, Pa., assignor to John Stogdell Stokes, Philadelphia, Pa. Filed Nov. 2, 1920. Serial No. 421,315. 9 Claims. (Cl. 154—46.5.)



1. As a new article of manufacture, a grooved sound record including a composition comprising a furfural synthetic resin.

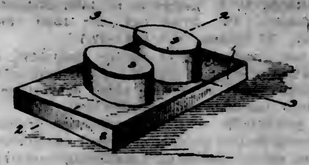
1,398,149. METHOD OF MOLDING ARTICLES. EMIL E. NOVOTNY, Logan, Philadelphia, Pa., assignor to John Stogdell Stokes, Philadelphia, Pa. Filed Jan. 21, 1921. Serial No. 438,924. 5 Claims. (Cl. 18—55.)

1. The herein described method of molding which comprises providing a body of powdered reacted infusible synthetic resin, and subjecting the same to heat and pressure against a matrix to weld the particles of the body into a homogeneous mass and to fashion the molded article therefrom.

1,398,150. OSTEOPATHIC INSTRUMENT. CHARLES EMERSON POLLARD, Champaign, Ill. Filed June 12, 1920. Serial No. 388,585. 3 Claims. (Cl. 128—69.)

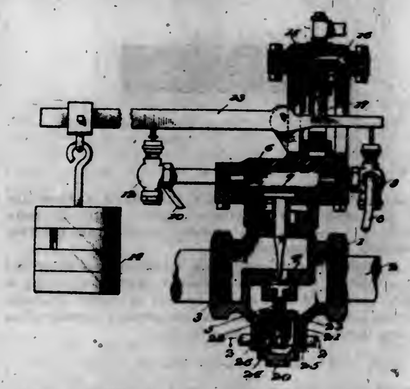
1. An osteopathic instrument comprising a base, and a pair of spaced relatively short cushion blocks secured to the upper face thereof, the upper edges of the blocks which are adjacent each other and adapted to engage the po-

tient's body at each side of the spine being elliptical in form and the long axes of the upper surfaces arranged



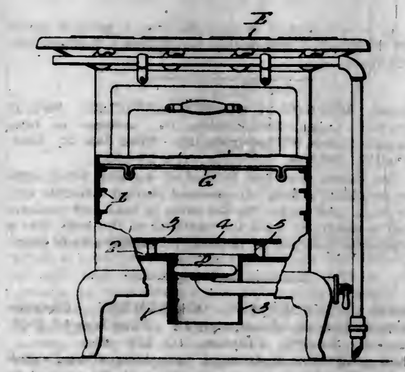
transversely of the base, whereby the blocks are closer together intermediate their ends than at their ends.

1,398,151. VALVE. WILLIAM S. RALSTON, Pittsburgh, Pa., assignor to The Chaplin-Fulton Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 16, 1920. Serial No. 396,731. 3 Claims. (Cl. 137—53.)



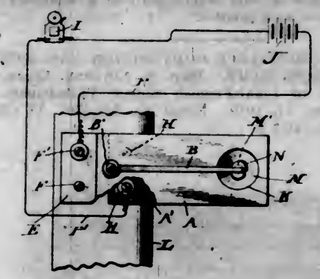
1. In combination with a valve and its casing, a plug for said casing having an inclosed chamber for a heat radiating fluid in juxtaposition to said valve and separated therefrom by the walls of said chamber, said plug having inlet and outlet ports communicating with said chamber.

1,398,152. OVEN ATTACHMENT. JOHN C. RAMSAY, Baltimore, Md. Filed Sept. 27, 1920. Serial No. 413,112. 1 Claim. (Cl. 126—39.)



In combination, an oven having a centrally disposed opening in the bottom, a burner disposed beneath and spaced from the opening, a cylindrical sleeve extending downwardly through said opening and surrounding the burner, said sleeve having a lateral annular flange on its inner end resting on the bottom of the oven, retaining the sleeve in place, and a combined article-supporting and flame spreader plate arranged in the over over the aforesaid opening, said plate including depending legs engaged with the periphery of said flange, the latter serving to prevent undue shifting or possible displacement of the plate.

1,398,153. THERMAL CIRCUIT-CLOSER. WALTER V. REICHARD, Paola, Kans. Filed Mar. 3, 1921. Serial No. 450,216. 5 Claims. (Cl. 200—142.)



1. In a thermal circuit closer, two strips of conducting material and a spring having an L-shaped end, the strips being arranged one above the other; the upper strip having a hole in its outer end to allow the L-shaped end of the spring to pass through and touch the lower strip and the spring being fastened to the upper strip, in combination with a piece of easily fusible metal attached to the upper side of the upper strip above the opening.

1,398,154. BOX. WALTER W. REID, New York, N. Y. Filed Jan. 6, 1921. Serial No. 435,448. 4 Claims. (Cl. 206—44.)

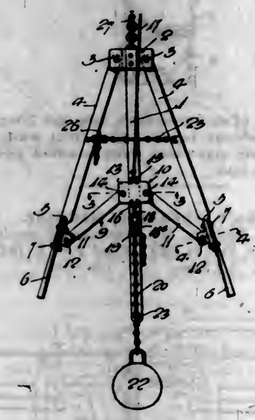


1. A box of the character described comprising a container with a double end wall and a bottom, said bottom having a tab struck therefrom so as to be substantially in the plane of the end wall, a top for said container having an ear, said ear and tab adapted to be inserted each into the opening made by the other, the ear entering between the double end wall of the container thereby holding the two parts together.

1,398,155. CHIMNEY-CLEANER. JAMES B. ROSE, Tacoma, Wash. Filed Mar. 7, 1921. Serial No. 450,192. 1 Claim. (Cl. 15—41.)

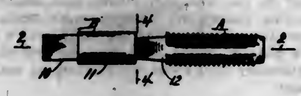
A chimney cleaner comprising a vertical bar, a transversely disposed head rigidly secured to the upper end of the bar, being equipped at its opposite ends with spaced

ears, arms pivoted at their upper ends between these ears, the lower ends of said arms being twisted to extend laterally with respect to the body portions, said lateral ends being apertured and carrying ears, scraper-blades, bolts passing through the latter and said aperture in the laterally bent ends of the arms and detachably securing these blades in place, a second head slidably mounted on said bar, toggle links pivoted to this head and to the second



named ears, a weight, a chain connected at one of its ends to the latter, having detachable and adjustable connection at its opposite end with the sliding head, a guide on said bar through which the chain passes, and another chain carried by one of said arms and having adjustable connection with said other arm, serving to limit the expansion of said arms.

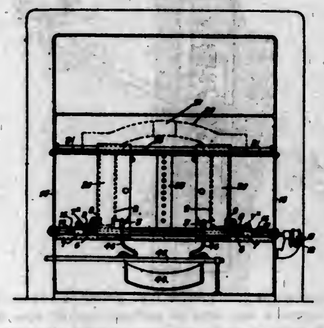
1,398,156. TAP. FRANK P. SCHRODER, Philadelphia, Pa. Filed July 28, 1919. Serial No. 313,869. 3 Claims. (Cl. 10—141.)



2. In a tool the combination of cutting means, a shank extending from the cutting means comprising a top portion distant from the cutting means adapted to coact with other means to normally turn the tool, the said shank having a second portion also adapted to receive means to turn the tool, the said second portion adjacent to the cutting means and having a cross-section at a portion thereof smaller in area than any other cross-section of the tool and said small cross-section located at the top end of the said second portion.

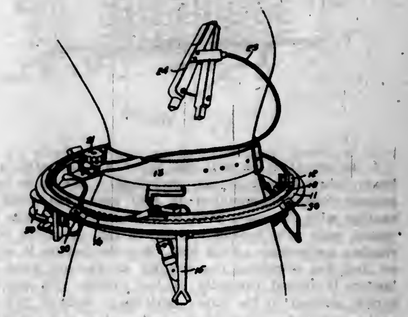
1,398,157. GRILLER. JOHN MATTHEW SHOAR, Liverpool, England. Filed Aug. 30, 1920. Serial No. 407,020. 5 Claims. (Cl. 126—41.)

1. A grilling apparatus comprising a chamber, a grid forming the base of said chamber, heat radiating elements overlying and supported by the grid and extending above the same to form side walls of a grilling chamber, heating means carried by said elements, and a single means cooperating with both of said elements and adapted in movement to simultaneously and uniformly adjust said ele-



ments in relatively opposite directions, whereby the space between said elements may be varied to subject the article being grilled to the desired heat.

1,398,158. STAGE-COSTUME APPLIANCE. HENRY SKREMKA, New York, N. Y. Filed July 30, 1921. Serial No. 488,673. 13 Claims. (Cl. 2—42.)

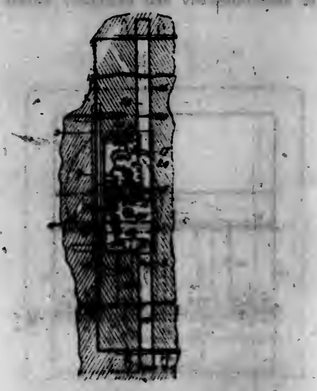


1. A stage costume appliance, including means adapted to encircle the body of a wearer, means connected therewith for supporting the costume, and further means for causing a rotary motion of said supporting means with respect to said first named means.

1,398,159. LOCKING DEVICE. HERMAN SONTOW, Wilmington, Del. Filed July 8, 1920. Serial No. 394,646. 3 Claims. (Cl. 70—74.)

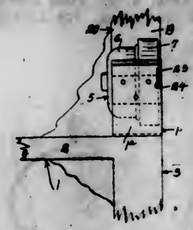
1. In locking means of the character described, the combination of a spindle, a latch rigid therewith adapted to engage a keeper, a pinion carried by said spindle, longitudinally movable lock-bars provided with racks meshing

with said pinion, and a key-operated bolt adapted to be moved into the path of movement of one of said locking-



bars to lock both of said connected locking bars and the latch in their locking positions.

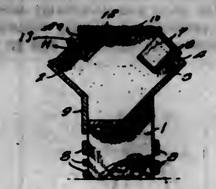
1,398,160. BURGLAR-ALARM. FRED E. SPARKS, AKRON, Ohio, assignor to Automatic Burglar Alarm Company, Charleston, W. W. Va., a Corporation of West Virginia. Filed May 16, 1921. Serial No. 469,979. 2 Claims. (Cl. 116—90.)



1. In combination with an upper window sash and a lower window sash, a bell including a casing having a section rotatably mounted on said lower sash and contacting with the upper sash, a control button, means associated with said button for preventing operation of the ringing mechanism of the bell when the button is extended and for releasing the ringing mechanism when said button is forced inwardly of the casing, and operating strips secured to the inner peripheral wall of the rotatably mounted section of the bell casing and adapted to force the button inwardly of said casing upon rotation of said rotatably mounted section.

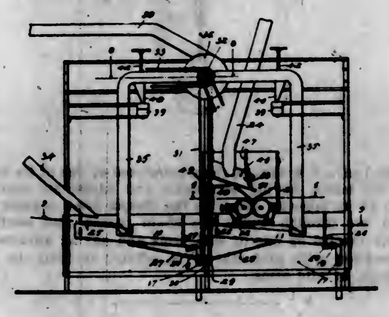
1,398,161. COUNTER AND BIN. VIRGIL H. SPINKS, Ruston, La. Filed Sept. 29, 1920. Serial No. 413,523. 1 Claim. (Cl. 211—11.)

A combined bin and counter comprising a plurality of longitudinally spaced uprights, a counter connecting the upper ends of said uprights, said uprights having edgewise disposed lateral extensions at their upper ends, the upper edges of said extensions being inclined downwardly and outwardly and their lower edges inclined downwardly and inwardly, crossbars connecting the edges of said uprights, boards connecting the upper and lower edges of said extensions to form hopper-like bins below said counter, the boards connecting the lower edges of said extensions at one side projecting into the space between said uprights, and those connecting the upper edges of said extensions forming upper front and rear walls for the bin, a bottom member arranged between said projecting side boards and



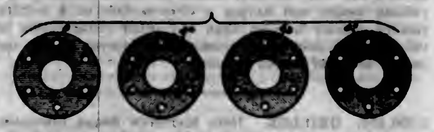
the uppermost of said cross bars, said bins being equipped with sight openings in the upper front wall and with closures in their upper rear walls to afford access to the interior of the bins.

1,398,162. GRAIN-CLEANING MACHINE. HARRY S. STANSBURY, Ashland, Md., assignor of one-half to C. Frank Ensor, Verona, Md. Filed Feb. 3, 1921. Serial No. 442,129. 3 Claims. (Cl. 130—18.)



1. A grain cleaning apparatus having primary and secondary riddles and an intermediate crushing mechanism to the action of the latter of which the grain is subjected subsequent to treatment by the primary and prior to treatment by the secondary riddle, said crushing mechanism having coöperative yielding faced drums or rolls and means for communicating motion thereto, a hopper for directing material to the contacting surfaces of said rolls, and a vibratory feed spout for discharging material into the hopper.

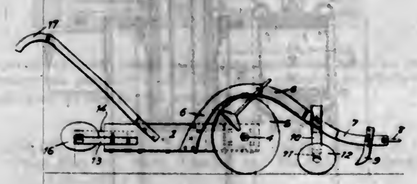
1,398,163. FLEXIBLE DISK-COUPLING. ROBERT J. STOKES, Trenton, N. J., assignor to Thermoid Rubber Company, Hamilton township, N. J., a Corporation of New Jersey. Filed May 24, 1919. Serial No. 299,581. 2 Claims. (Cl. 64—30.)



2. The combination in a flexible coupling, of a driving and a driven shaft; a spider mounted on each shaft; and a series of four disks clamped to the arms of both spiders, each disk being composed of a plurality of layers of fabric

having their warp threads running in the same direction, the disks being so arranged that the warp threads of the several disks are spaced at 45 degrees apart so that the strains to which the coupling is subjected will be evenly distributed through the four disks.

1,398,164. DISK FIELD OR ROAD PLOW. DREW B. THOMPSON, Blakely, Ga. Filed Oct. 2, 1920. Serial No. 414,265. 3 Claims. (Cl. 97—40.)



1. A plow comprising in longitudinal alinement a beam having its forward face in a vertical plane inclined from the line of travel and provided with a stub axle, a cutting wheel mounted on the stub axle and a draw bar.

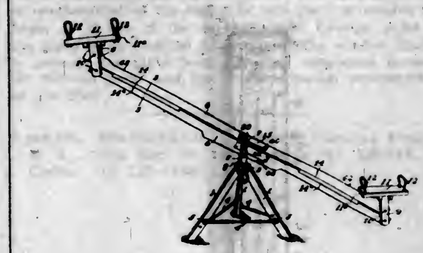
1,398,165. PROTECTIVE COVERING. NORMAN NEWTON WHITESIDE, New York, N. Y. Filed Dec. 18, 1920. Serial No. 431,697. 3 Claims. (Cl. 2—60.)



1. A waterproof storm shield of paper or the like comprising a sack formed of a front and a back wall integrally connected along one edge and having two opposite edges cemented together leaving the remaining edges free to form an opening, whereby the sack may be inverted and drawn over the head of the user, said sack being of such dimensions as to completely inclose the head and upper portion of the body, said front wall having an observation opening adjacent its point of integral connection with the back wall so as to be opposite the face of the user.

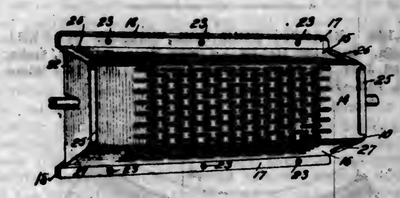
1,398,166. WHIRLING SEESAW. RUDOLPH WINCKEL, Webb City, Mo. Filed Mar. 8, 1921. Serial No. 450,540. 6 Claims. (Cl. 46—22.)

1. In a see saw, a support, a standard held in said support to turn around a vertical axis, a beam fulcrumed on said standard to rock on a horizontal axis and seats on said beam adapted to hold the users in a position transverse of the beam whereby, when the user pushes on the ground to rock the beam on its fulcrum the said beam will also be pushed to whirl the said standard on its axis,



said seats extending in the longitudinal direction of the beam and having handles at each end whereby the operators may sit sidewise and grasp the handles of the seats.

1,398,167. ELECTRIC HEATER. JOHAN R. BAKSTAD, Chicago, Ill., assignor to Holden & White, Inc., Chicago, Ill., a Corporation of Illinois. Filed Oct. 7, 1920. Serial No. 415,292. 6 Claims. (Cl. 219—34.)



1. An electric heater of the character described comprising a horizontally elongated casing having a front, forwardly converging upper and lower sides flanged vertically at their inner edges, a back-plate fitted within the back portions of said upper and lower sides and having flanges to engage a wall and to receive the flanges on said casing, means securing said back plate to the wall independently of said casing, means removably securing the flanges of said casing to the flanges of said back-plate and a heating resistance within said casing and supported from said back-plate, said back-plate forming an air space behind it, and said body casing being perforated for the escape of heated air.

1,398,168. ELECTRIC HEATER. JOHAN R. BAKSTAD, Chicago, Ill., assignor to Holden & White, Inc., Chicago, Ill., a Corporation of Illinois. Filed Oct. 7, 1920. Serial No. 415,293. 6 Claims. (Cl. 219—34.)

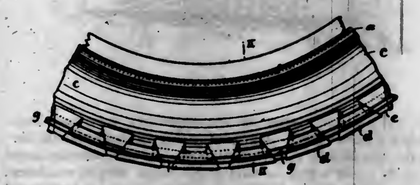
1. An electric heater of the character described comprising a vertically elongated body casing perforated for the escape of heated air and having a front, sides and ends, a back plate adapted to be secured to a wall and having its main body portion fitted within the back portion of said casing, means securing the inner edges of said sides to said back plate and removable without disturbing said back-plate, and a resistance heating element within said casing supported from said back plate independently

of said casing, the upper and lower ends of said casing terminating at the upper and lower adjacent edges of



said back plate so as to leave a free air space between said back plate and the wall to which the heater may be secured.

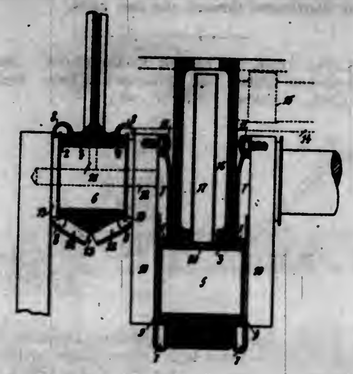
1,398,169. ELASTIC TIRE FOR WHEELS OF VEHICLES. RICHARD RALPH & COURT BEADON, Agra, India. Filed July 12, 1920. Serial No. 395,510. 14 Claims. (Cl. 152—16.)



11. Wheel tire and tread comprising a pneumatic tire of elliptical cross section and having the major axis of said ellipse disposed transversely to the plane of said wheel, a circular assemblage of metal blocks encircling said tire, rubber blocks alternated with said metal blocks and strutted against said tire, said rubber blocks spacing said metal blocks apart circumferentially from one another and radially from said tire, circumferential flexible restraining means for said metal blocks, and means on the latter for engaging said restraining means, substantially as set forth.

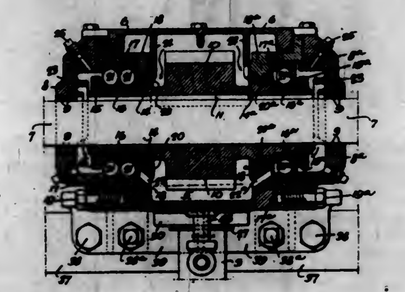
1,398,170. LUBRICATING SYSTEM. JACQUES BIGNAN, Puteaux, France. Filed Mar. 5, 1918. Serial No. 220,581. 4 Claims. (Cl. 184—7.)

4. Lubricating arrangement for connecting rod heads, comprising two circular channels facing each other relative to the crank shaft sleeves, a connecting rod head bush disposed between the said channels, circular collectors which inclose the joint between each channel and the corresponding cheek, a connecting rod head in one with the said collectors and two passages formed in the lower



part of the connecting rod head in order to allow of communication between the collectors and the casing of the motor.

1,398,171. GEAR-BOX. HERMANN BOGATY, Philadelphia, Pa., assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 16, 1920. Serial No. 351,901. 4 Claims. (Cl. 74—56.)

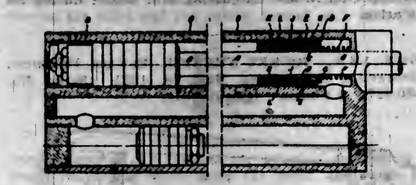


1. The combination of a box; a horizontal and a vertical shaft extending into the box; gear wheels on each shaft, one gear wheel meshing with the other, the gear wheel on the horizontal shaft having an extended hub; ball bearings between the hubs and the casing at each side of the gear wheel; a column projecting from the bottom of the box and encircling the vertical shaft; and a ball bearing between the column and the gear wheel mounted in the vertical shaft.

1,398,172. HYDRAULIC RECOIL APPARATUS FOR ORDNANCE. AXEL BERTHELSEN, Glasgow, Scotland. Filed June 24, 1920. Serial No. 391,299. 2 Claims. (Cl. 89—43.)

1. In hydraulic recoil apparatus for ordnance, in combination constant leakage apertures and a valve so disposed and so spring loaded as to open under the moment of recoil but to remain closed during the return movement and a second valve controlling the return movement, closed during recoil, but so spring-loaded that it opens

at the beginning of that movement but gradually closes and remains closed during the latter part of the return



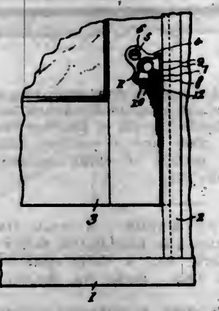
movement both valves being located in the annulus between the piston rod and the recoil cylinder in which it operates, as and for the purposes set forth.

1,398,173. SPARK-PLUG. JOHN O. BROCK, Wilson, N. C. Filed May 24, 1920. Serial No. 383,855. 5 Claims. (Cl. 123—169.)



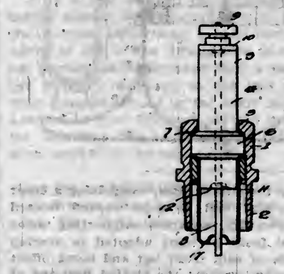
1. In a spark plug, a body, a hollow insulator therein, means for holding the insulator in place, a hollow electrode extending through the said insulator, means for holding the electrode in place, an inner head threaded in the electrode and forming a valve seat, a valve within the hollow electrode operative in conjunction with the said valve seat, and a terminal of high resistance carried by the said head, the said terminal being coiled as and for the purpose described.

1,398,174. SASH-FASTENER. SWEND CARLSON, Butte, Mont. Filed Apr. 8, 1921. Serial No. 459,631. 1 Claim. (Cl. 292—202.)



A window sash fastener comprising a plate adapted to be pivoted to a window sash and having a socket outwardly of the pivot point, a flange extending outwardly from the outer edge of the plate and being formed in substantially the arc of a circle, said flange provided with an intermediate transverse rib having tapering side walls, and with two series of shoulders stepped down in opposite relation from the rib and also having inclined edges, said flange having an interior flaring wall formed in continuation of the socket in said plate to receive the finger or thumb of the operator, said fulcrum point of the plate being situated relatively to the window casing to prevent the plate from swinging completely between its fulcrum point and the window casing, substantially as described.

1,398,175. SPARK-PLUG. HERMON E. CLEMONS, Pulaski, N. Y. Filed May 25, 1918. Serial No. 236,543. 1 Claim. (Cl. 123—169.)



A spark plug comprising an open casing, a non-conducting bushing projecting from one terminal of the casing having an enlarged portion confined within the casing, a center electrode carried by the bushing, a tubular member positioned within the lower end of the casing and spaced from the inner wall thereof and having an outwardly directed flange at its upper terminal bearing against the enlarged portion of the bushing and constituting a gasket therefor, a washer screw threaded in the casing and bearing against the flared terminal of the tubular member to hold the latter and the bushing in position, notches formed on said washer for removing the same from the casing, and thereby releasing the tubular member, and inwardly directed integral fingers carried by the tubular member terminating in spaced relation to the center electrode to provide a spark gap.

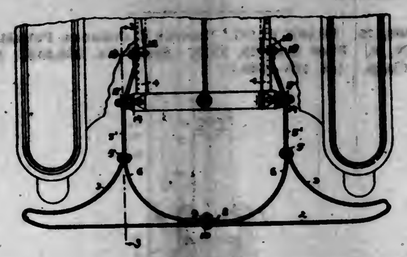
1,398,176. RADIATOR FOR AUTOMOBILE COOLING SYSTEMS. JOHN CONLON, Plattsburg, N. Y. Filed Oct. 21, 1919. Serial No. 332,335. 7 Claims. (Cl. 257—129.)



1. A radiator having upper and lower reservoirs, tubes slidably engaging the walls of both reservoirs, and a

single means for engaging the walls of one receptacle for securing the tubes in place and compressing the packing between the tubes in both receptacles in the same direction of movement as the movement of the single means.

1,396,177. SPRING-BUMPER FOR AUTOMOBILES. WILLIAM G. COX, Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y., a Corporation of New York. Filed Sept. 28, 1921. Serial No. 506,660. 3 Claims. (Cl. 293—55.)



3. A spring bumper for automobiles, comprising a front bar having reversely-bent end portions curved toward each other and rearwardly, separate supporting arms having slotted curved front portions adapted to overlap and engage the middle of said front bar and being offset at their rear ends, means uniting the slotted portions of said supporting bars with the front bar with a limited play therebetween, and means adapted to secure the rear offset ends of said supporting bars to the frame of the automobile.

1,396,178. PISTON. CHARLES DE LUBACZEWICZ and EDMUND LOEFLER, New York, N. Y. Filed Nov. 8, 1920. Serial No. 422,707. 4 Claims. (Cl. 74—108.)



1. A piston composed of a phenol condensation product and metal inserts and sheet mica embedded therein.

1,398,179. STOCK-FEEDER. JOHN DIERKS, Sulphur Springs, Tex. Filed Dec. 29, 1919. Serial No. 348,110. 4 Claims. (Cl. 119—54.)



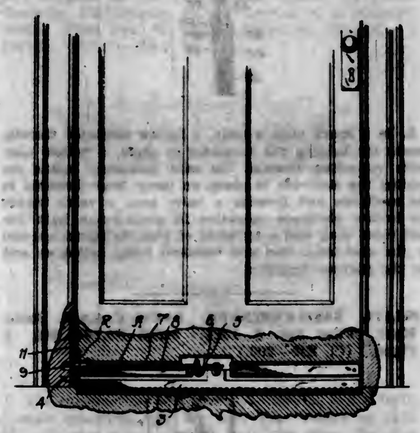
1. A stock feeder including, a supporting frame, an open bottom food hopper suspended on said supporting frame and adapted to oscillate thereon, a bottom, carrying feed troughs, rigidly secured to said hopper, spaced below the oscillation of said hopper, and means positioned on said hopper between adapted to engage an abutment on said supporting frame for jarring said hopper during its oscillation.

1,398,180. SOCKET-WRENCH. EDWARD DIETRICH, Henryville, Ind. Filed Mar. 28, 1921. Serial No. 456,427. 2 Claims. (Cl. 81—61.)



1. A socket wrench comprising an outer casing, said casing being formed of two sections provided with peripheral flanges engaging each other to space the sides of the casing from each other, said casing being provided with a centrally depressed portion forming a pair of guideways, a dog arranged in each of said guideways, a socket mounted to revolve in the casing, said socket being provided with ratchet teeth adapted to be engaged by said dogs, and an operating lever pivotally mounted in said casing and connected to said dogs.

1,398,181. AUTOMATIC WEATHER-STRIP. WILLIAM J. DILLARD and JOHN D. TAYLOR, Portland, Oreg. Filed Dec. 10, 1919. Serial No. 343,765. 1 Claim. (Cl. 20—68.)



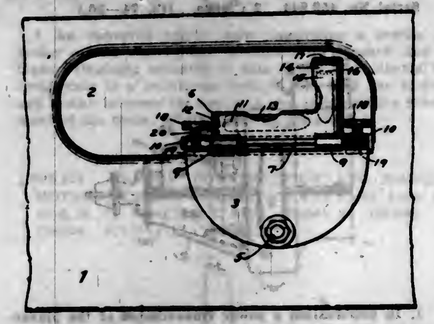
In an automatic weather-strip structure, a blade carried by the door and movable downward by the closing of the door, a slot in the sill of the door frame adapted to receive said blade and a resilient filling for said slot, the upper surface of filling normally co-planar with the top of the sill.

1,398,182. SAFETY-RAZOR. WILLIAM DWYER, Pittsburgh, Pa., assignor to Four-In-One Safety Razor Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Mar. 23, 1920. Serial No. 368,051. 3 Claims. (Cl. 30—12.)

1. In a safety razor, a polygonal clamping plate, a polygonal casing having a depending flange and open at one side, said plate being positioned within the flange of the casing, a polygonal blade positioned between the plate and the casing and fitting within the latter, said blade being sharpened on all of its edges and projecting beyond the casing at the open side thereof, and means for forcing the plate and the casing toward each other, said flange providing an element for gripping the casing between the fingers when using the razor, the flange also serving to protect the user's fingers from being cut by the blade and to protect the unexposed edges of the blade from injury.

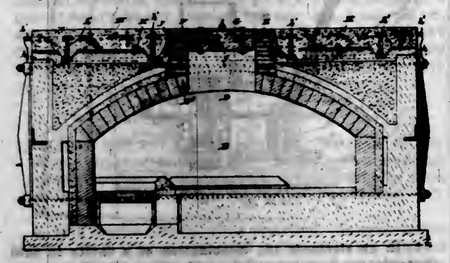


1,398,183. ADJUSTABLE STRAIGHTEDGE PLUMB AND LEVEL. PHILIP T. FAGRIE, Seattle, Wash. Filed Apr. 29, 1919. Serial No. 293,542. 4 Claims. (Cl. 33—88.)



1. The combination with a straight-edge, of clamping plates arranged upon opposite sides of the straight-edge, means for detachably connecting the plates to the straight-edge, said plates having outstanding perforated ears formed thereon at the upper edges of said plates and an angular vial holder arranged above the upper edges of the plates and having perforated ears carried thereby and adapted to be disposed in alinement with the ears of the plates and removable pivot pins extending through the ears of both the plates and vial holder.

1,398,184. INCINERATING-FURNACE. WILLIAM FETZER and JOHN G. FRERES, Springfield, and OTTO A. ELLIOTT, Marion, Ill., assignors to International Sanitation & Development Company, Springfield, Ill., a Copartnership consisting of said Fetzer, Freres, and Elliott. Filed Sept. 18, 1917. Serial No. 192,016. 2 Claims. (Cl. 110—12.)



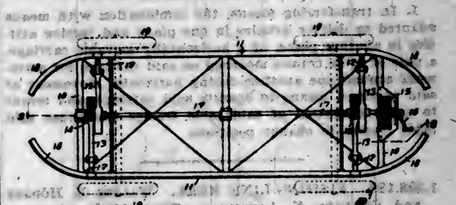
1. In an incinerating plant, the combination with walls and a furnace, of a throat member extending upwardly from the furnace and carried thereby, a driving floor located adjacent the top of the furnace and through which the throat member loosely passes, and a packing interposed between the throat and the driving floor.

1,398,185. REEL. WILLIAM J. FROHMUTH and DONALD E. CONAGEN, Fort Wayne, Ind. Filed Dec. 8, 1919. Serial No. 343,227. 3 Claims. (Cl. 242—84.1.)



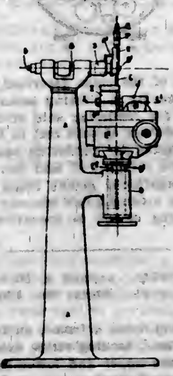
3. In a reel adapted for attachment to the side of a fishing pole or rod, a winding member and a support for the member comprising a base portion adapted to seat upon the side of the fishing pole or rod and having a cut out portion on its forward face, a shaft supporting member pivotally mounted on the base portion and a revoluble member carried by the shaft supporting member and adapted to abut the base portion in said cut-out portion for adjusting the angularity of the supporting member with respect to the base portion.

1,398,186. AUTOMOBILE-LIFTING DEVICE. PRESTON C. GRASON, Girard, Ill. Filed Feb. 2, 1921. Serial No. 441,822. 3 Claims. (Cl. 254—89.)



1. An automobile lifting device comprising a caster-supported frame, a lifting frame disposed above the first-mentioned frame provided with an upper surface adapted to seat the axles of an automobile at divers positions thereon, and provided at its opposite ends with duplicate inturned curved extremities, and means to lift the lifting frame relative to the first-mentioned frame.

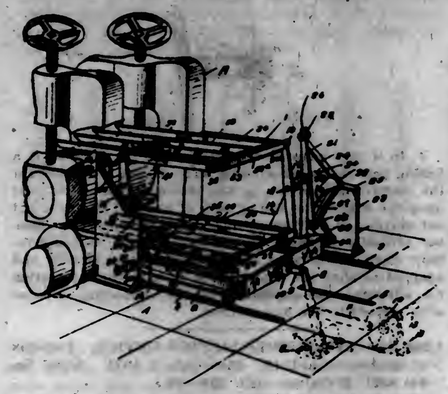
1,398,187. CUTTER-GRINDING MACHINE. JAMES J. GUEST, London, England. Filed Aug. 18, 1920. Serial No. 404,399. 5 Claims. (Cl. 51—225.)



1. In a cutter grinding machine a cutter spindle, a tooth rest carried upon an arm, and means for sliding

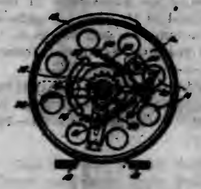
said arm upon and rotating it about an axis which intersects at right angles the axis of rotation of the cutter spindle.

1,398,188. TRANSFER MEANS. JOHN J. HARLEWOOD, Pittsburgh, Pa. Filed May 2, 1919. Serial No. 294,322. 10 Claims. (Cl. 80—47.)



1. In transferring means, the combination with means adapted to deliver articles in one plane and receive articles in another plane, of a horizontally movable carriage, a pair of table frames mounted on said carriage for movement around one another during horizontal movement of said carriage, means to operate said carriage, and means to cause operation of said table frames and cause said table frames to change positions.

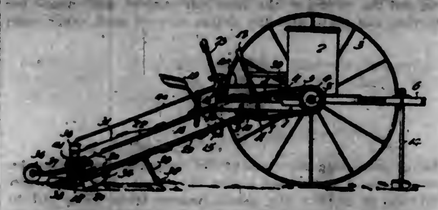
1,398,189. FISHING-LINE REEL. WALTER E. HODGES and CHARLES F. LARENBERG, Flint, Mich. Original application filed Mar. 25, 1920, Serial No. 368,521. Divided and this application filed Mar. 12, 1921. Serial No. 451,920. 5 Claims. (Cl. 242—84.6.)



1. In a device of the class described, a casing, a reel mounted in said casing, a clicking means associated with said reel, means for rendering said clicking means inoperative for the rotation of said reel in both directions of movement, and means for rendering said clicking means inoperative for the rotation of said reel in one direction only, said last mentioned means being operable by the pull on the line of a caught fish whereby to automatically return said clicking means to operative position.

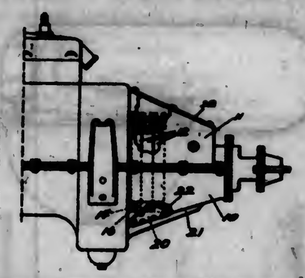
1,398,190. PLANTER. ALFRED A. HOWARD, Waddy, Ky. Filed Jan. 13, 1921. Serial No. 436,982. 4 Claims. (Cl. 111—3.)

1. A planter comprising a frame, an inclined track bar carried by said frame, binding strips extending about the side portions of the upper and lower faces of the track bar and having cam elements at one end of the track bar, a furrow opener carried by said track bar, an endless carrier carried by said track bar and moving longitudinally thereof between the binding strips, normally inoperative plant gripping means carried by the carrier and



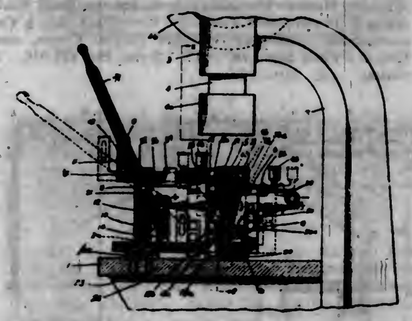
moved to an operative position by said cam elements, and furrow filling means carried by said track bar.

1,398,191. CLUTCH-BAND AND CASING THEREFOR. WILLIAM F. HUDSON, Philadelphia, Pa., assignor to Hudson Motor Specialties Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 16, 1921. Serial No. 452,844. 2 Claims. (Cl. 74—56.)



1. In combination a power transmission of the planetary type including clutch bands each of said bands being of sectional formation, means for removably clamping together the sections of each band, a casing surrounding said transmission which casing is provided with a covered opening immediately adjacent the clamped portion of said sections and being further provided with a covered opening substantially opposite the first mentioned opening.

1,398,192. ELECTRODE FOR ANNEALING AND HEATING SYSTEMS. WATSON HURLBURT, Chicago, Ill. Filed Feb. 24, 1919. Serial No. 278,596. 4 Claims. (Cl. 219—9.)



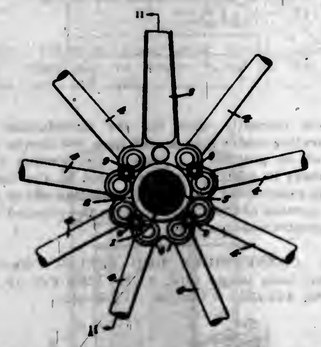
1. In an electrode the combination of a cavity in said electrode, passages connecting said cavity with the contact surface of said electrode, an electrolyte, a container for said electrolyte and means for controlling the supply of said electrolyte.

1,398,193. SAFETY-RAZOR. ANDREW LANGSTAFF JOHNSTON, Jr., Richmond, Va. Filed Apr. 27, 1920. Serial No. 377,063. 9 Claims. (Cl. 30—12.)



1. An improved safety razor comprising a handle, a holder carried thereby and provided with a guard, and a blade swingingly mounted in said holder and adapted to reciprocate in a rectilinear path to and from the guard, and means to cause the swinging and reciprocating movement of the blade, substantially as described.

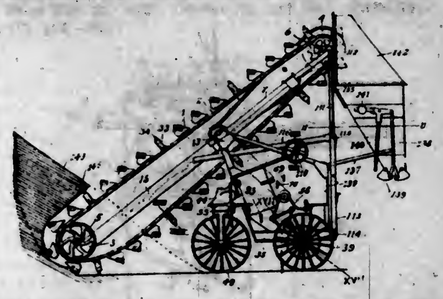
1,398,194. BIG-END CONSTRUCTION FOR RADIAL MOTORS. CHARLES L. LAWRANCE, Bay Shore, Long Island, N. Y. Filed May 7, 1920. Serial No. 379,585. 7 Claims. (Cl. 74—17.)



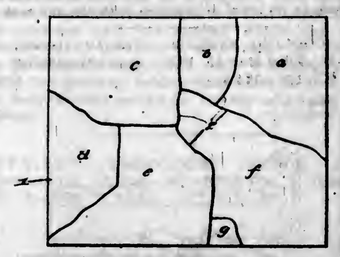
2. In a motor of the class described, a crank assembly comprising a bearing sleeve on the crank pin, and a plurality of auxiliary connecting rods spaced about said bearing and connected thereto each by a joint consisting of a pair of longitudinally disposed end bearings, a bearing rib, and a tubular pin passing through said end bearings, and the interposed end of a connecting rod, said connecting rod being slotted to permit the bearing rib to contact with the lower face of the hollow pin.

1,398,195. EXCAVATING-MACHINE. WILLIAM K. LIGGETT, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Feb. 3, 1920. Serial No. 356,100. 24 Claims. (Cl. 37—24.)

1. In a machine of the class described, the combination with a main frame supported upon laterally disposed traction wheels in the rear of its center of gravity and a centrally disposed steering wheel in advance of said center of gravity, means to actuate said traction wheels to propel the machine, self-locking means to control said steering wheel to guide the machine and a longitudinally extending conveyer supported upon said frame and adapted to gather material from points in advance of said steering wheel and convey it rearwardly to elevated discharge points as and for the purpose set forth.

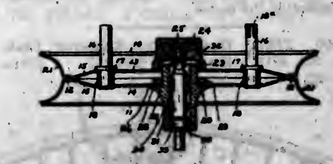


1,398,196. METHOD OF MAKING A DIE. ALBERT A. MCINTYRE, Bonners Ferry, Idaho. Filed Apr. 29, 1919. Serial No. 293,527. Renewed Oct. 11, 1921. Serial No. 507,158. 2 Claims. (Cl. 76—107.)



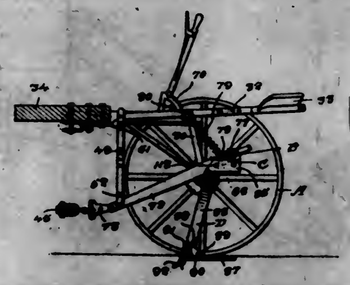
1. The herein-described method of making a die for the subdivision of integers of an entity, which consists, in making on a die stock or block an impression from the engraved or other printing plate in exact facsimile of the configuration of the entity and its integers to be printed, in subdividing the block on the lines of such configuration, and in interposing cutting rules in such lines of division of the block with the cutting edges of said rules in relief from the cutting or impression side of the block.

1,398,197. FISHING-REEL. ROBERT S. MOSES, Kendallville, Ind. Filed Aug. 3, 1920. Serial No. 401,047. 2 Claims. (Cl. 242—84.1.)



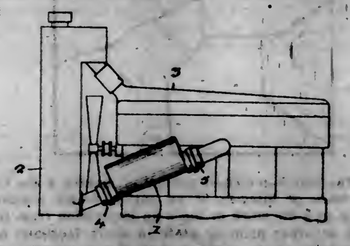
2. In a reel of the class described, a reel hub including a sleeve having a flange thereon, one end of the sleeve being threaded, a reel body including a pair of similar annular disks having their central portions spaced and fitted on the threaded end of the sleeve, a lock nut threaded on the sleeve between said disks and screwed toward said flange to clamp one of the disks against the flange, and a hub cap screwed on the end of the sleeve and bearing against the other disk.

1,398,198. AGRICULTURAL MACHINE. JOHN G. NORTHCUTT and MINER CRAWFORD, Silverton, Tex. Filed July 2, 1920. Serial No. 396,894. 1 Claim. (Cl. 97—34.)



In a machine of the class described, a wheel carrying frame including an arch axle having wheel carrying spindles and a sub-arch connected with the spindles of the axle for swinging movement about the axis of the spindles, an implement beam having a bearing at its rear end pivotally engaging the sub-arch, an adjustable connection between the front end of said beam and a part of the frame, means for adjusting the sub-arch and for securing it in adjusted position and a weeder attachment connected with said implement beam at its point of junction with the sub-arch.

1,398,199. COOLING SYSTEM. WILLIAM OATES, Jr., Lead, S. D. Filed May 17, 1920. Serial No. 382,167. 1 Claim. (Cl. 123—174.)



In combination with a water system of an internal combustion engine, a cylindrical drum, an inlet nipple and an outlet nipple projecting from the end, said nipple being arranged adjacent one side of the drum, an upper baffle plate arranged in said drum so as to give the water a zig zag path as it passes therethrough, lower plates having openings formed in their lower edges for permitting the water to drain from the drum when the cooling system is drained, said drum being connected with the pipe line leading from the bottom of the radiator to the inlet of the water jacket of the motor.

1,398,200. TIRE. HARRY OWEN, Roosevelt, Utah. Filed Mar. 22, 1919. Serial No. 284,257. 1 Claim. (Cl. 152—22.)

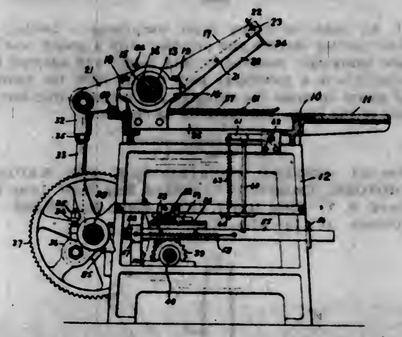


In combination with a tire casing, of a plurality of permanently inflated independently removable spherical air cells adapted to be positioned in said casing in a circumferentially compressed condition and a plurality of flexible annular separators provided with inwardly beveled ends adapted to be positioned in said casing between each of said cells.

1,398,201. BITUMINOUS EMULSION. CHARLES S. REEVE, Grantwood, N. J., assignor to The Barrett Company, a Corporation of New Jersey. Filed Feb. 10, 1921. Serial No. 443,863. 5 Claims. (Cl. 134—1.)

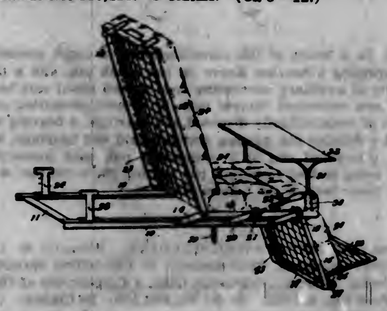
1. The process of producing an emulsion which comprises adding a bitumen in a fluid state to a mixture of clay and water while agitating said mixture and maintaining its temperature at such a point that the bitumen will be dispersed without a substantial amount of coalescence of the same.

1,398,202. SLOTTING-MACHINE. JOHN H. SCARBOROUGH, Philadelphia, Pa., assignor to David Weber, Philadelphia, Pa. Filed Apr. 29, 1920. Serial No. 377,630. 47 Claims. (Cl. 164—41.)



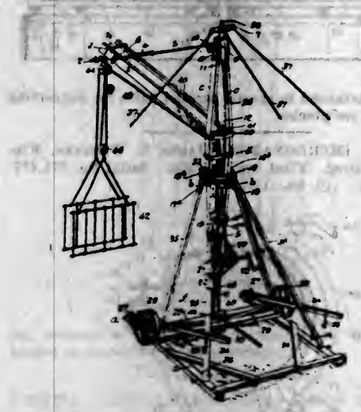
1. Shears normally open for the introduction of a blank, operating means to close and open the shears, means constrained in position to prevent the closing of the shears, means in position to be actuated by the blank to release the constrained means, said operating means adapted at the opening of the shears to force the released means into its constrained position.

1,398,203. CONVERTIBLE BED-SPRING. HENRY A. SCHMIDT, Long Island City, N. Y. Filed Feb. 19, 1921. Serial No. 446,423. 3 Claims. (Cl. 5—12.)



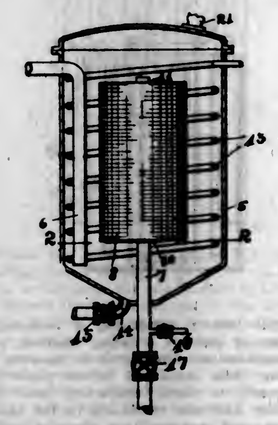
1. A convertible bed spring including a main frame, an auxiliary frame having angular offset terminals pivoted to the main frame, a second auxiliary frame having offset angular terminals also pivoted to the main frame, and a third auxiliary frame pivotally supported upon and between the first and second frames.

1,398,204. HEADED-GRAIN STACKER. JACOB A. SCHOWALTER, near Newton, Kans. Filed Oct. 20, 1920. Serial No. 418,148. 17 Claims. (Cl. 212—59.)



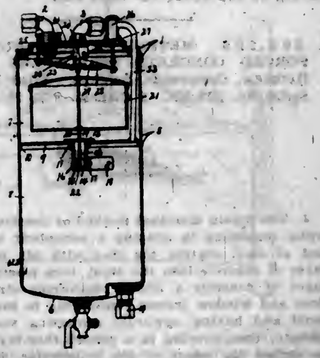
1. A hoist of the character described comprising a base, a mast mounted on the base frame for rotation about its longitudinal axis, and a supporting member mounted on the frame for laterally supporting the mast, said mast being pivotal on said lateral supporting member whereby the mast may be moved to a horizontal position.

1,398,205. FILTER. CHARLES W. SIRCH, Los Angeles, Calif. Filed May 16, 1919. Serial No. 297,577. 2 Claims. (Cl. 210—169.)



1. In a filter in combination with a casing, an inlet pipe and a perforated outlet pipe provided on the casing; a filtering medium comprising layers of fabric and spacing means disposed between the layers of fabric, the spacing means forming the supporting member of the medium and having means for attaching the whole width of the medium at one edge to one side of the outlet pipe of the casing so as to allow a winding of the medium for several times around the pipe.

1,398,206. FUEL-FEEDING DEVICE. WILLIAM SPARKS, Jackson, Mich., assignor to The Sparks-Withington Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 28, 1921. Serial No. 447,196. 16 Claims. (Cl. 158—36.)



1. In a fuel feeding device, an elevated tank comprising an upper chamber, and a lower chamber, an exhaust connection and an atmosphere inlet to the upper chamber, float-actuated means for alternately connecting said chamber with the exhaust means and with the atmosphere, a slide valve controlling the communication between the upper and lower chambers, a counterweight for normally holding said valve in open position, and float-actuated means for moving said valve to closed position.

1,398,207. EMBROIDERY-NEEDLE. JAMES C. THRAILKILL, Chicago, Ill. Filed Oct. 4, 1920. Serial No. 414,498. 1 Claim. (Cl. 112—80.)



The combination of a handle having a side recess, an embroidery needle seating slidably in the handle and projecting therefrom, and a resilient shank carried by the handle and having a latch pin passing through the side recess to engage the needle for locking the same, said needle having keeper apertures for the latch pin.

1,398,208. PORTABLE SHOWER-BATH APPARATUS. LEILA A. TRIAL, Los Angeles, Calif. Filed Sept. 19, 1918, Serial No. 254,855. Renewed Oct. 24, 1921. Serial No. 510,103. 4 Claims. (Cl. 4—26.)



1. In a portable shower bath apparatus, a bag having a seamless bottom; a valve casing inserted upwardly

through the bottom; a nut screwed downwardly upon the valve casing against the bottom, there being perforations in the upper end of the casing; a valve seat at the upper end of the casing above the perforations; and a valve stem screwed upwardly into the valve casing and having an end fitting the valve seat.

1,398,209. METHOD OF CONSTRUCTING REINFORCED CONCRETE STRUCTURES. EDGAR VAN BAVEGEM, Oosterzeele, Belgium. Filed May 21, 1919. Serial No. 298,606. 2 Claims. (Cl. 25—155.)



1. The herein described method of constructing concrete walls consisting in shaping a recumbent mold having a bed of clay, coating the clay with oil, pouring a thin layer of concrete into the mold, then placing on the first layer of concrete a ribbed reinforcing structure having door and window frames conforming to the shape of the mold and having upwardly projecting staples attached thereto, then pouring in a second thin layer of concrete to embed the edges of the reinforcing structure, then placing a layer of sand upon the concrete, leaving only the edges of the reinforcing structure and the staples exposed, then pouring in another layer of concrete and leaving openings in this last mentioned layer to expose the staples, then raising the wall and removing the sand.

1,398,210. WHISK-BROOM. GEORGE K. VAN VOAST, Amsterdam, N. Y., assignor to Amsterdam Broom Company, Amsterdam, N. Y., a Corporation of New York. Filed May 10, 1921. Serial No. 468,265. 3 Claims. (Cl. 15—19.)



1. In a broom, in combination, a body portion and a covering for the rear end of the same comprising a sheath of fibers secured thereto the individual fibers being doubled upon themselves and both ends of each fiber being rearwardly directed.

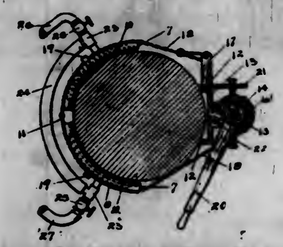
1,398,211. DEVICE FOR DRAINING-RECEPTACLES. HARVEY RAY WALLACE, Brooklyn, N. Y., assignor to Loft Incorporated, New York, N. Y. Filed Mar. 18, 1921. Serial No. 453,525. 4 Claims. (Cl. 221—69.)

1. A device of the class described, including a receptacle, a standard arranged centrally within said receptacle, an annular track arranged above the receptacle and concentric with the standard, a turn table mounted for rotation upon said track, rollers supported by said turn



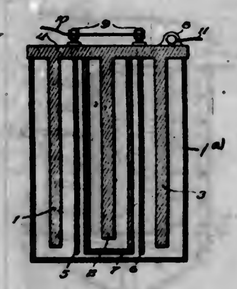
table and arranged in spaced parallel pairs for supporting individual receptacles.

1,398,212. IMPREGNATOR. JAMES R. WEBBLES, Winchester, Oreg. Filed Apr. 5, 1920. Serial No. 371,477. 6 Claims. (Cl. 99—12.)



1. An impregnator comprising an impregnating member of box like construction applicable to the peripheral surface of a post; a packing medium upon the edges of said member; a winch; flexible tension members connecting said impregnating member with said winch; and means to supply a liquid preservative under pressure to said impregnating member.

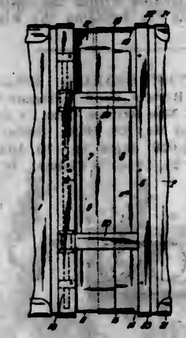
1,398,213. BATTERY. DAVID H. WILSON, Philadelphia, Pa. Filed May 2, 1919. Serial No. 294,255. 5 Claims. (Cl. 204—38.)



1. An electric battery comprising a receptacle containing the battery solution, a carbon electrode separate from said receptacle and adapted to be inserted therein and comprising three separated carbon plates located in said receptacle, a carbon connecting piece integral with said plates and zinc electrodes in the spaces between the separated carbon plates, whereby there is a simultaneous action on both the inner and outer surfaces of the zinc electrodes and a porous cup surrounding the central carbon plate.

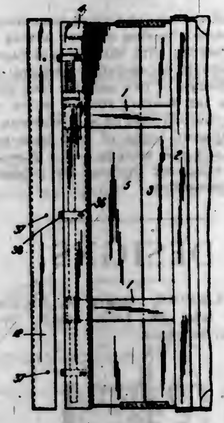
1,398,214. LOOSE-LEAF BINDER. SYDNEY R. WYCHERLEY, Bromley, England, assignor to Spicer Brothers, Limited, London, England. Filed Mar. 10, 1921. Serial No. 451,243. 4 Claims. (Cl. 129—41.)

1. A loose leaf binder comprising clamping bars, one of said bars comprising detachably associated housing sections, leaf-engaging means connecting one of the hous-



ing sections with the other clamping bar, and a cover hinged to the other housing section.

1,398,215. LOOSE-LEAF BINDER. SYDNEY R. WYCHERLEY, Bromley, England, assignor to Spicer Brothers, Limited, London, England. Filed Mar. 10, 1921. Serial No. 451,244. 5 Claims. (Cl. 129—41.)

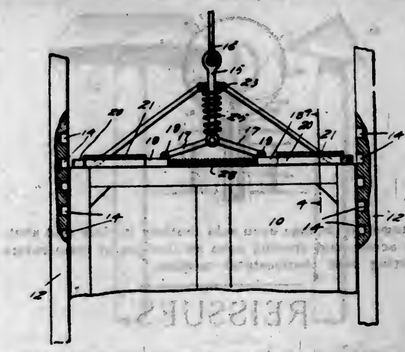


1. A loose leaf binder, comprising leaf clamping bars, leaf holding thongs connected to one of the bars, a shaft journaled on the other bar and adapted to have the thongs wound thereon, means at one end of the shaft by which it may be rotated, and means at the other end of the shaft for holding it against rotation in one direction.

5. A loose leaf binder comprising leaf-clamping bars, a roller shaft journaled on one of the bars and having longitudinal grooves, thongs secured to the other bar and adapted to wrap upon the roller shaft, and spring clips embracing the shaft and having portions that press the thongs into the grooves thereof.

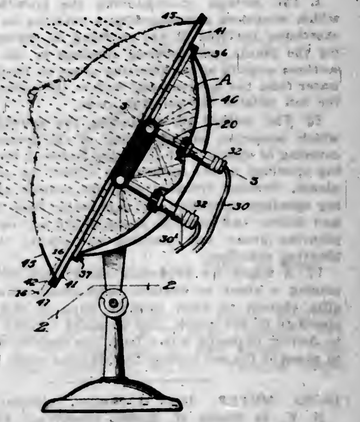
1,398,216. SAFETY DEVICE FOR MINE-ELEVATORS. JOHN S. BARNETTE, Jr., Broughton, Pa. Filed Mar. 16, 1920. Serial No. 366,318. 1 Claim. (Cl. 187—84.)

A safety device for a movable body consisting of a plurality of dogs, keepers engageable by the dogs, a bracket having a portion raised above the dogs, an expansive spring engaging the inner end portions of both dogs, a bar slidable in said bracket portion, a cable operatively associated with said bar above said portion, links pivoted to said dogs disposed above said spring and normally



maintained at an angle to each other by said cable, said links being pivoted to said bar, and an expansive spring on said bar below said bracket portion engageable with said links at their highest portions.

1,398,217. ELECTRIC HEATER. EDMUND N. BROWN and MILTON H. SHOMBERG, San Francisco, Calif., assignors to Majestic Electric Development Company, San Francisco, Calif., a Corporation of California. Filed Oct. 2, 1919, Serial No. 327,880. Renewed Oct. 18, 1921. Serial No. 508,611. 8 Claims. (Cl. 219—34.)



1. A heater, comprising a reflector of concave form, the central portion being a surface of revolution of one curvature and the outer surrounding portion being a surface of revolution of a different curvature, and a heating element substantially centered about the focus of said outer portion.

1,398,218. TEMPERATURE-INDICATOR FOR RADIATORS. ABY A. BENSON and HORACE BARNES, Seattle, Wash., assignors, by direct and mesne assignments, to Auto Radio Meter Company, Seattle, Wash., a Corporation of Washington. Filed Nov. 1, 1919. Serial No. 335,204. 8 Claims. (Cl. 116—114.)

1. In an instrument of the class described, a casing provided with a sight opening in its rear wall and a lens

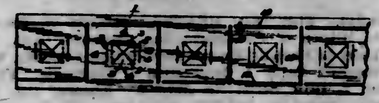
in its front wall, a pair of shutters pivotally mounted to vibrate across said opening, and a thermostatic member



arranged to impinge upon said shutters to close said shutters across said opening upon an increase of temperature affecting said thermostatic member.

REISSUES.

15,221. METHOD AND MEANS FOR ENHANCING THE GROWTH OF PLANTS. CHARLES F. ECKHART, Honolulu, Hawaii. Filed Oct. 15, 1921. Serial No. 508,080. Original No. 1,372,998, dated Mar. 29, 1921, Serial No. 413,173, filed Sept. 27, 1920. 17 Claims. (Cl. 47—36.)



1. The method of enhancing the growth of plants, which comprises superimposing a covering on the ground, exercising portions of the covering to expose soil areas for the plants, and forming openings in the covering at sections outside of the planting areas to receive drainage water from the covering and deliver the water to zones of the soil outside the planting areas.

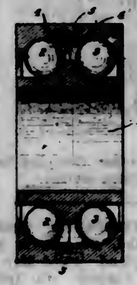
13. The method of enhancing the growth of plants which comprises superimposing on the ground a flexible covering of opaque heat-absorbing material, forming planting openings in the covering to expose soil areas for the plants, forming drainage openings outside of the planting openings to receive drainage water from the covering and deliver the water to areas of the soil outside of the planting areas, and planting the plants through said planting openings.

17. A mulch for enhancing the growth of plants comprising a sheet of flexible water-proof material having slits therein to form foldable flaps to define planting openings in the mulch, and openings outside of the flaps to deliver drainage water from the surface of the mulch to zones of the soil outside the planting areas.

15,232. METER. JOHN H. NORRIS, deceased, New York, N. Y., by EMMA M. NORRIS, executrix. Filed Oct. 8, 1921. Serial No. 506,812. Original No. 1,388,835, dated Aug. 23, 1921, Serial No. 147,536, filed Feb. 9, 1917. 4 Claims. (Cl. 73—[illegible].)

printing a member contacting with the inner surface of said glass and two arms connected with the ends of said member and pivotally mounted within the casing, and manually operable means for swinging the wiper about its pivots.

15,233. ANTIFRICTION BEARING. ROLAND WINCHESTER SELLEW, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a Corporation of Connecticut. Filed May 28, 1921. Serial No. 473,336. Original No. 1,375,019, dated Apr. 19, 1921, Serial No. 383,523, filed May 22, 1920. 8 Claims. (Cl. 64—36.)



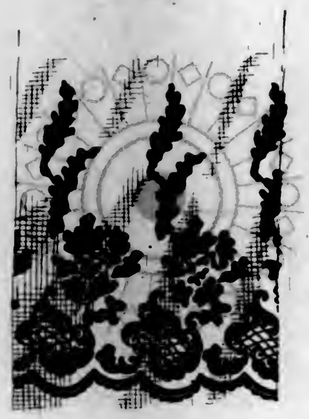
8. A bearing of the type described comprising, an inner and an outer annular bearing element having complementary ball races therein, with balls in said races operating to hold said elements in operative position, one of said elements being formed of two annular ring sections, each section having a ball bearing surface which surfaces cooperate to form the ball race of said element, and means bridging the adjacent edges of said ring sections and overlapping at least one section, and a fused connection between said overlapping surfaces for holding the same against lateral separation.

DESIGNS.

59,699. VEHICLE-TIRE. DANIEL L. BECKER, Oakland, Calif. Filed May 25, 1921. Serial No. 472,603. Term of patent 14 years.

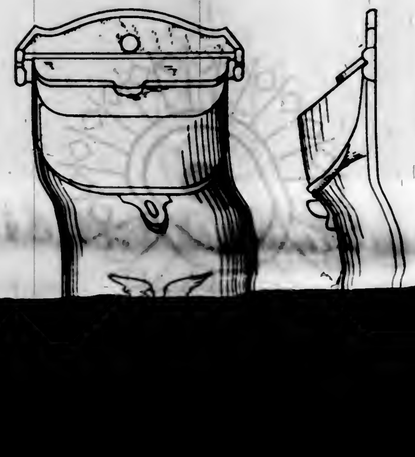


59,700. LACE. CECILIA BERNARD, New York, N. Y., assignor to Blanck & Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 26, 1921. Serial No. 503,388. Term of patent 3½ years.

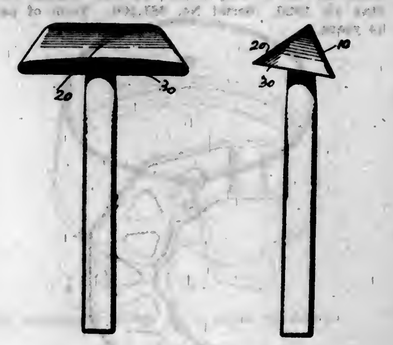


The ornamental design for lace as herein shown and described.

59,701. TOY BANK. JAMES H. BIGALOW, Ravenna, Ohio, assignor to The A. C. Williams Company, Ravenna, Ohio, a Corporation of Ohio. Filed Aug. 16, 1921. Serial No. 492,841. Term of patent 14 years.

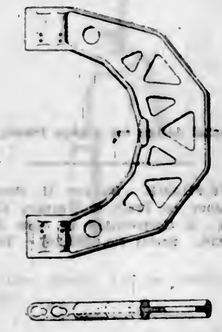


59,702. MIXER. HARRY M. BIGELOW, Milwaukee, Wis. Filed Jan. 10, 1921. Serial No. 436,373. Term of patent 7 years.



The ornamental design for a mixer, as shown.

59,703. GAGE-FRAME. BRYANT H. BLOOD, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed May 13, 1920. Serial No. 381,204. Term of patent 14 years.

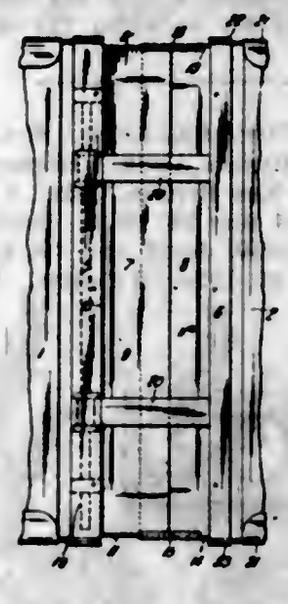


The ornamental design for a gage frame, as shown.

59,704. GAGE-FRAME. BRYANT H. BLOOD, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed May 13, 1920. Serial No. 381,205. Term of patent 14 years.

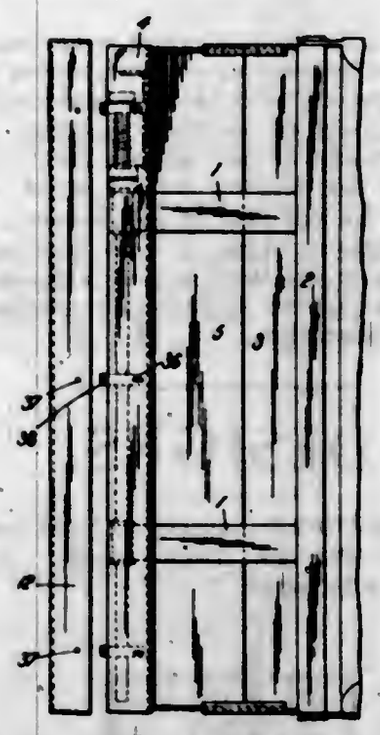


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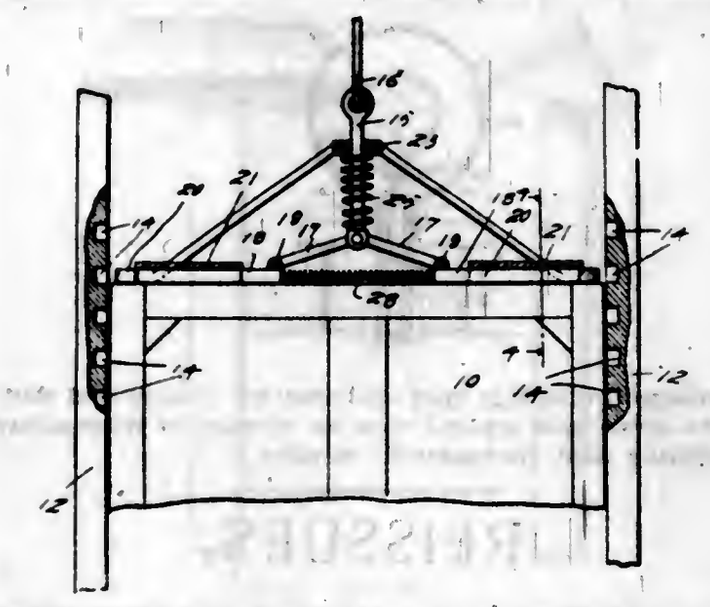


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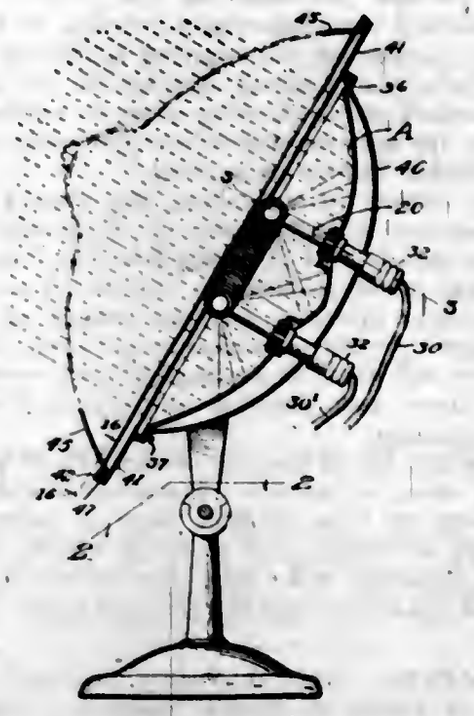
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1. In an instrument of the class described, a casing provided with a sight opening in its rear wall and a lens

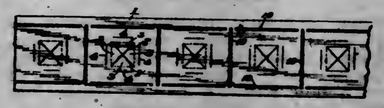
in its front wall, a pair of shutters pivotally mounted to vibrate across said opening, and a thermostatic member



arranged to impinge upon said shutters to close said shutters across said opening upon an increase of temperature affecting said thermostatic member.

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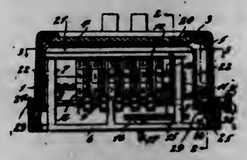


1. The method of enhancing the growth of plants, which comprises superimposing a covering on the ground, exercising portions of the covering to expose soil areas for the plants, and forming openings in the covering at sections outside of the planting areas to receive drainage water from the covering and deliver the water to zones of the soil outside the planting areas.

13. The method of enhancing the growth of plants which comprises superimposing on the ground a flexible covering of opaque heat-absorbing material, forming planting openings in the covering to expose soil areas for the plants, forming drainage openings outside of the planting openings to receive drainage water from the covering and deliver the water to areas of the soil outside of the planting areas, and planting the plants through said planting openings.

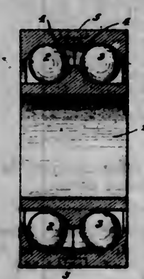
17. A mulch for enhancing the growth of plants comprising a sheet of flexible water-proof material having slits therein to form foldable flaps to define planting openings in the mulch, and openings outside of the flaps to deliver drainage water from the surface of the mulch to zones of the soil outside the planting areas.

15,232. METER. JOHN H. NORRIS, deceased, New York, N. Y., by Emma M. Norris, executrix. Filed Oct. 8, 1921. Serial No. 506,812. Original No. 1,388,835, dated Aug. 23, 1921, Serial No. 147,536, filed Feb. 9, 1917. 4 Claims. (Cl. 235—1.)



1. In a meter, a casing provided with a glass through which parts within the casing are visible, a wiper comprising a member contacting with the inner surface of said glass and two arms connected with the ends of said member and pivotally mounted within the casing, and manually operable means for swinging the wiper about its pivots.

15,233. ANTIFRICTION BEARING. ROLAND WINCHESTER SELLEW, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a Corporation of Connecticut. Filed May 28, 1921. Serial No. 473,386. Original No. 1,375,019, dated Apr. 19, 1921, Serial No. 383,523, filed May 22, 1920. 8 Claims. (Cl. 64—36.)



8. A bearing of the type described comprising, an inner and an outer annular bearing element having complementary ball races therein, with balls in said races operating to hold said elements in operative position, one of said elements being formed of two annular ring sections, each section having a ball bearing surface which surfaces cooperate to form the ball race of said element, and means bridging the adjacent edges of said ring sections and overlapping at least one section, and a fused connection between said overlapping surfaces for holding the same against lateral separation.

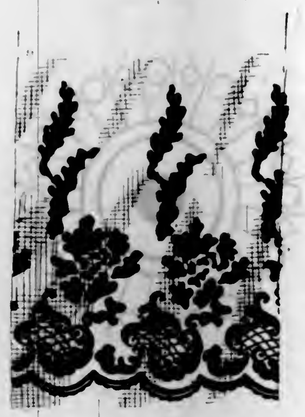
DESIGNS.

59,699. VEHICLE-TIRE. DANIEL L. BECKER, Oakland, Calif. Filed May 25, 1921. Serial No. 472,603. Term of patent 14 years.



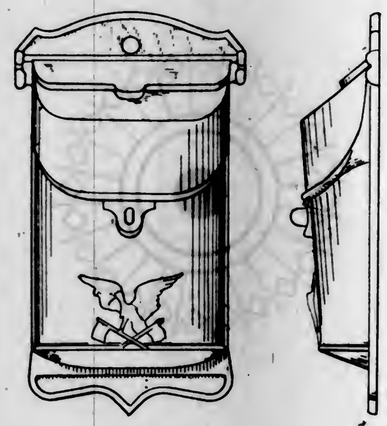
The ornamental design for a vehicle tire substantially as shown and described.

59,700. LACE. CECILIA BERNARD, New York, N. Y., assignor to Blanck & Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 26, 1921. Serial No. 503,388. Term of patent 3½ years.



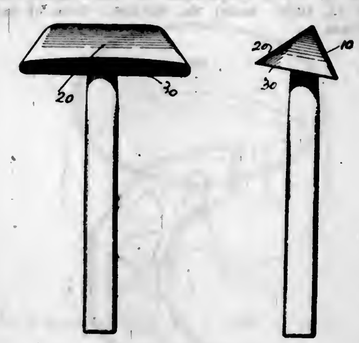
The ornamental design for lace as herein shown and described.

59,701. TOY BANK. JAMES H. BIGALOW, Ravenna, Ohio, assignor to The A. C. Williams Company, Ravenna, Ohio, a Corporation of Ohio. Filed Aug. 16, 1921. Serial No. 492,841. Term of patent 14 years.



The ornamental design for a toy bank as shown.

59,702. MIXER. HARRY M. BIGELOW, Milwaukee, Wis. Filed Jan. 10, 1921. Serial No. 436,373. Term of patent 7 years.



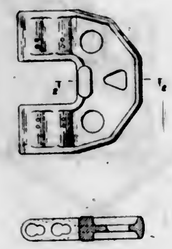
The ornamental design for a mixer, as shown.

59,703. GAGE-FRAME. BRYANT H. BLOOD, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed May 13, 1920. Serial No. 381,204. Term of patent 14 years.



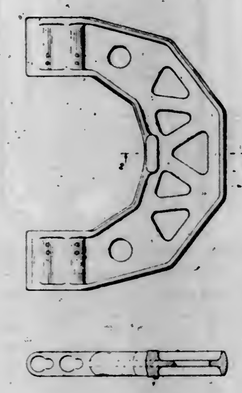
The ornamental design for a gage frame, as shown.

59,704. GAGE-FRAME. BRYANT H. BLOOD, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed May 13, 1920. Serial No. 381,205. Term of patent 14 years.



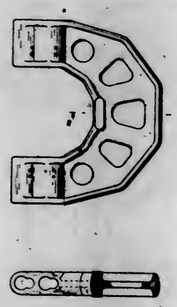
The ornamental design for a gage frame, as shown.

59,705. GAGE-FRAME. BRYANT H. BLOOD, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed May 13, 1920. Serial No. 381,206. Term of patent 14 years.



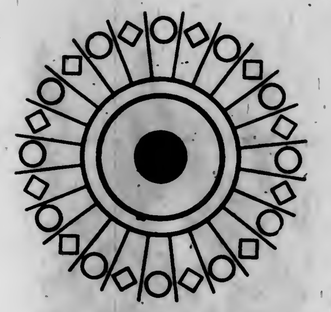
The ornamental design for a gage frame, as shown.

59,706. GAGE-FRAME. BRYANT H. BLOOD, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed May 13, 1920. Serial No. 381,207. Term of patent 14 years.



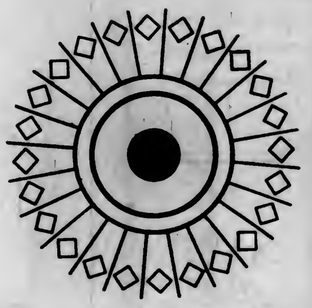
The ornamental design for a gage frame, as shown.

59,707. GAME-DIAL OR SIMILAR ARTICLE. EDMUND BAUDER, Chicago, Ill. Filed June 18, 1921. Serial No. 478,751. Term of patent 7 years.



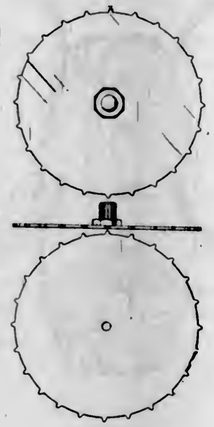
The ornamental design for a game dial or similar article as shown.

59,708. GAME-DIAL OR SIMILAR ARTICLE. EDMUND BAUDER, Chicago, Ill. Filed June 18, 1921. Serial No. 478,752. Term of patent 7 years.



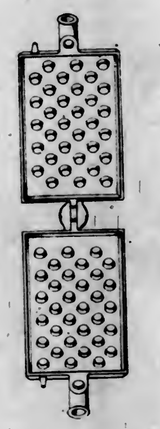
The ornamental design for a game dial or similar article as shown.

59,709. DISK OR ELEMENT FOR A GAME APPARATUS. EDMUND BAUDER, Chicago, Ill. Filed Aug. 29, 1921. Serial No. 496,720. Term of patent 7 years.



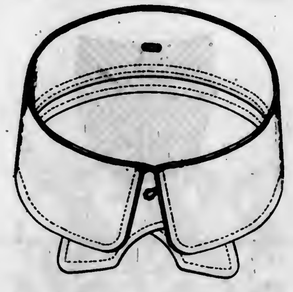
The ornamental design for a disk or element for a game apparatus as shown.

59,710. WAFFLE-IRON. CLARA M. BURBANK, Los Angeles, Calif. Filed Apr. 26, 1921. Serial No. 464,705. Term of patent 14 years.



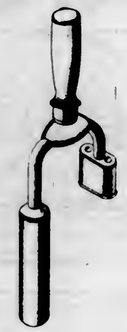
The ornamental design for a waffle iron, substantially as shown.

59,711. COLLAR. CARL CHARLES, Rosedale, Kans. Filed Jan. 10, 1921. Serial No. 436,376. Term of patent 3½ years.



The ornamental design for a collar as shown.

59,712. ELECTRIC IMMERSION-HEATER. DAVID H. CLARK, Orangeburg, N. Y. Filed July 2, 1921. Serial No. 482,228. Term of patent 14 years.



The ornamental design for an electric immersion-heater, as shown.

59,713. STAND FOR A DISPENSING APPARATUS. DAVID H. CLARK, Orangeburg, N. Y. Filed July 2, 1921. Serial No. 482,229. Term of patent 14 years.



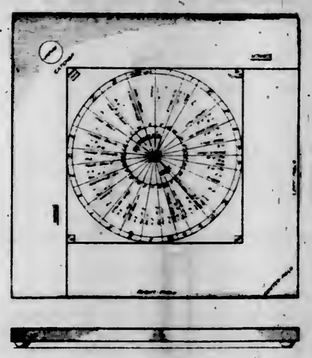
The ornamental design for a stand for a dispensing apparatus, as shown.

59,714. RUBBER HEEL. WALTER HENRY CLARKE, Toronto, Ontario, Canada. Filed June 1, 1921. Serial No. 474,259. Term of patent 14 years.



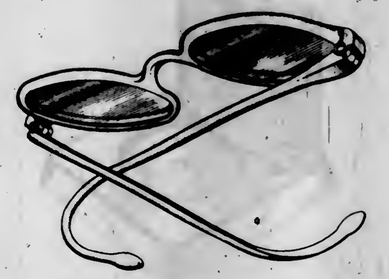
The ornamental design for a rubber heel as shown.

59,715. GAME-BOARD. HARRY T. CLAYTON, Philadelphia, Pa. Filed Sept. 3, 1921. Serial No. 498,560. Term of patent 14 years.



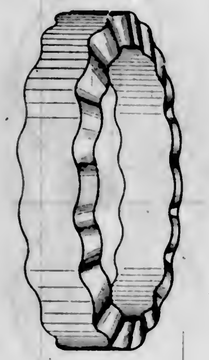
The ornamental design for a game board as shown.

59,716. SPECTACLES. STEPHEN J. CLULEE, Attleboro, Mass., assignor to Bay State Optical Company, a Corporation of Maine. Filed Mar. 23, 1921. Serial No. 454,916. Term of patent 7 years.



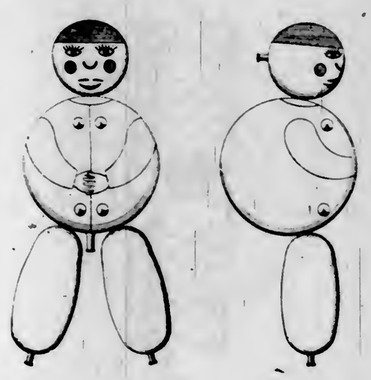
The ornamental design for spectacles, as shown.

59,717. SOLID RUBBER TIRE FOR MOTOR-TRUCKS AND THE LIKE. HENRY B. COATS, Veedersburg, Ind. Filed Feb. 14, 1921. Serial No. 445,008. Term of patent 14 years.



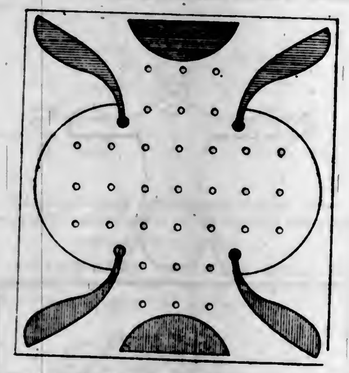
The ornamental design for a solid rubber tire for motor-trucks and the like, as shown.

59,718. TOY BALLOON-DOLL. WALTER M. COLVIN, Washington, D. C., assignor of one-fifth to Richard B. Owen, Washington, D. C. Filed June 9, 1921. Serial No. 476,356. Term of patent 14 years.



The ornamental design for a toy balloon doll as shown.

59,719. GAME-BOARD. RICHARD J. DAHIR, Omaha, Nebr. Filed June 23, 1921. Serial No. 479,935. Term of patent 3½ years.



The ornamental design for a game board, as shown.

59,720. LENS-PLATE. HARRY DALITZ, Cleveland, Ohio, assignor to The Reliable Manufacturing Company, Cleveland, Ohio. Filed June 29, 1921. Serial No. 481,400. Term of patent 7 years.



The ornamental design for a lens plate for signal lamps, as shown.

59,721. LACE. ELIZABETH ANDERSON DAVIS, New York, N. Y., assignor to Blanck & Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 26, 1921. Serial No. 503,391. Term of patent 3½ years.



The ornamental design for lace as herein shown and described.

59,722. LACE. ELIZABETH ANDERSON DAVIS, New York, N. Y., assignor to Blanck & Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 26, 1921. Serial No. 503,392. Term of patent 3½ years.



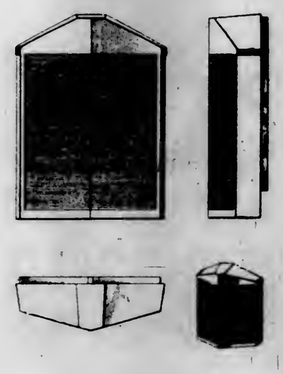
The ornamental design for lace as herein shown and described.

59,723. LACE. ELIZABETH ANDERSON DAVIS, New York, N. Y., assignor to Blanck & Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 26, 1921. Serial No. 503,393. Term of patent 3½ years.



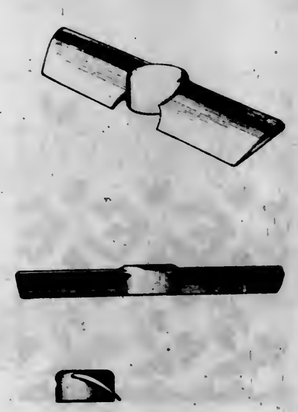
The ornamental design for lace as herein shown and described.

59,724. RADIATOR-SHELL. GEORGE S. DUARTE, New York, N. Y. Filed June 18, 1920. Serial No. 390,043. Term of patent 14 years.



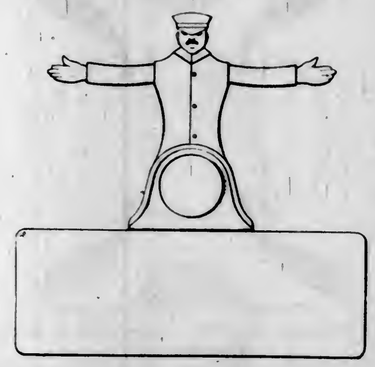
An ornamental design for a radiator shell as shown.

59,725. RADIATOR ORNAMENT. CLARENCE E. ELLIOTT and ORVILLE L. NICHOLS, Kansas City, Mo. Filed July 20, 1921. Serial No. 486,272. Term of patent 7 years.



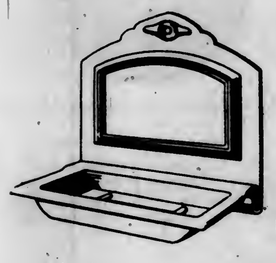
The ornamental design for a radiator ornament, as shown.

59,726. TRAFFIC-SIGNAL. FREDERICK FREMONT ELLIS, Los Angeles, Calif. Filed May 16, 1921. Serial No. 470,019. Term of patent 14 years.



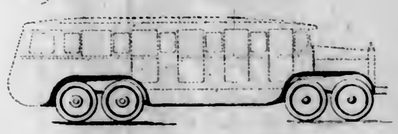
The ornamental design for a traffic signal, as described and shown.

59,727. SOAP-HOLDER. CLAUS E. ERICKSON, Des Moines, Iowa. Filed Apr. 11, 1921. Serial No. 460,494. Term of patent 7 years.



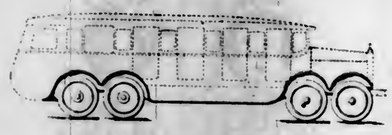
The ornamental design for a soap holder, as shown.

59,728. MOTOR-VEHICLE WHEEL AND FENDER ASSEMBLY. ROLLIN B. FAGEOL, Oakland, Calif. Filed May 26, 1921. Serial No. 472,901. Term of patent 14 years.



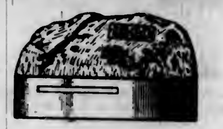
The ornamental design for a motor vehicle wheel and fender assembly substantially as shown and described.

59,729. MOTOR-VEHICLE WHEEL AND FENDER ASSEMBLY. ROLLIN B. FAGEOL, Oakland, Calif. Filed May 26, 1921. Serial No. 472,902. Term of patent 14 years.



The ornamental design for a motor vehicle wheel and fender assembly substantially as shown and described.

59,730. SAVINGS-BANK. WILLIAM S. FINLEY, Cleveland Heights, Ohio. Filed Aug. 29, 1921. Serial No. 496,721. Term of patent 14 years.





The ornamental design for a savings bank, as shown.

59,731. PENCIL. HOWARD L. FISCHER, St. Paul, Minn. Filed May 13, 1921. Serial No. 469,889. Term of patent 14 years.



The ornamental design for a pencil as shown.

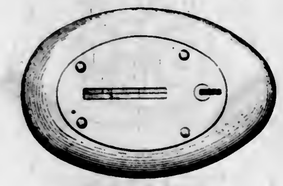
59,732. LAPEL-BUTTON ANCHOR. WILLIAM FISCHER, New York, N. Y. Filed Nov. 19, 1920. Serial No. 425,280. Term of patent 7 years.





The ornamental design for a lapel button anchor as shown.

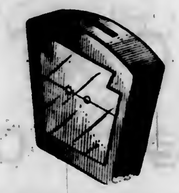
59,733. SAVINGS-BANK. CHARLES FISHER, Chicago, Ill., assignor to The Automatic Recording Safe Company, Chicago, Ill., a Corporation of Illinois. Filed July 18, 1921. Serial No. 485,749. Term of patent 14 years.





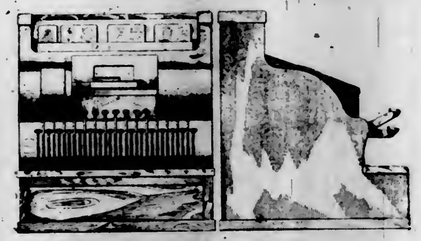
The ornamental design for a savings bank, as shown.

59,734. SAVINGS-BANK. CHARLES FISHER, Chicago, Ill., assignor to The Automatic Recording Safe Company, a Corporation of Illinois. Filed June 18, 1921. Serial No. 478,750. Term of patent 14 years.



The ornamental design for a savings bank, as shown.

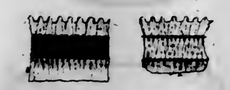
59,735. CASH-REGISTER. FREDERICK L. FULLER, Ilion, N. Y., assignor to Remington Arms Company, Inc., a Corporation of Delaware. Filed June 11, 1921. Serial No. 476,940. Term of patent 14 years.



The ornamental design for a cash register, as shown.

59,736. GARMENT-PROTECTOR. MAUDE SINCLAIR GEORGE, St. Louis, Mo. Filed May 23, 1921. Serial No. 471,976. Term of patent 14 years.





The ornamental design for a garment protector, as shown in the drawing.

59,737. WHISTLE. JOHN W. GLENN, Buffalo, N. Y. Filed July 22, 1921. Serial No. 486,896. Term of patent 14 years.







The ornamental design for a whistle, as shown.

59,738. TOY DOLL. GLADYS GOSS, Nevada, Mo. Filed Oct. 23, 1920. Serial No. 419,100. Term of patent 7 years.



The ornamental design for a toy doll, as shown.

59,739. WRIST-WATCH. FREDERICK G. GRUEN, Cincinnati, Ohio, assignor to The D. Gruen Sons & Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 26, 1920. Serial No. 392,101. Term of patent 14 years.



The ornamental design for a wrist-watch as shown.

59,740. WRIST-WATCH. FREDERICK G. GRUEN, Cincinnati, Ohio, assignor to The D. Gruen Sons & Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 26, 1920. Serial No. 392,102. Term of patent 14 years.



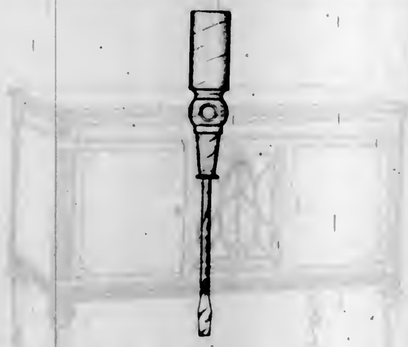
The ornamental design for a wrist-watch as shown.

59,741. WATCH-BOW. FREDERICK G. GRUEN, Cincinnati, Ohio, assignor to The D. Gruen Sons & Company, Cincinnati, Ohio, a Corporation of Ohio. Filed May 25, 1921. Serial No. 472,598. Term of patent 14 years.



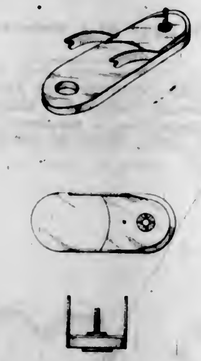
The ornamental design for a watch bow as shown.

59,742. SCREWDRIVER. GEORGE L. HALL, Newark, N. J. Filed June 23, 1921. Serial No. 479,931. Term of patent 14 years.



The ornamental design for a screwdriver, as shown.

59,743. SPARK-INTENSIFIER. GEORGE L. HALL, Newark, N. J. Filed June 24, 1921. Serial No. 480,243. Term of patent 14 years.



The ornamental design for a spark intensifier as shown.

59,744. EMBLEM, PIN, BUTTON, OR SIMILAR ARTICLE. EDWIN C. HEATHCOTE, Brooklyn, N. Y. Filed June 3, 1919. Serial No. 301,576. Term of patent 14 years.



The ornamental design for an emblem, pin, button, or similar article, as shown.

59,745. EMBLEM, PIN, BUTTON, OR SIMILAR ARTICLE. EDWIN C. HEATHCOTE, Brooklyn, N. Y. Filed June 3, 1919. Serial No. 301,578. Term of patent 14 years.



The ornamental design for an emblem, pin, button, or similar article, as shown.

59,746. CASTER-WHEEL. WALTER F. HEROLD, Newark, N. J., assignor to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed May 17, 1921. Serial No. 470,479. Term of patent 7 years.



The ornamental design for a caster wheel as shown.

59,747. BLANK FOR AN OPHTHALMIC LENS. HARRY W. HILL, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Nov. 27, 1920. Serial No. 426,816. Term of patent 14 years.



The ornamental design for a blank for an ophthalmic lens substantially as shown and described.

59,748. WASHING-MACHINE. HERMAN C. HIRSCHY, Duluth, Minn. Filed Apr. 22, 1921. Serial No. 463,680. Term of patent 14 years.



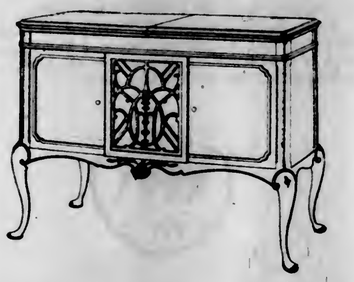
The ornamental design for a washing machine, as shown.

59,749. PHONOGRAPH-CABINET. EDMOND C. HOWARD, Norfolk, Va., assignor to Granby Phonograph Corporation, a Corporation of Virginia. Filed July 15, 1921. Serial No. 485,110. Term of patent 14 years.



The ornamental design for a phonograph cabinet as shown.

59,750. PHONOGRAPH-CABINET. EDMOND C. HOWARD, Norfolk, Va., assignor to Granby Phonograph Corporation, a Corporation of Virginia. Filed July 15, 1921. Serial No. 485,111. Term of patent 14 years.



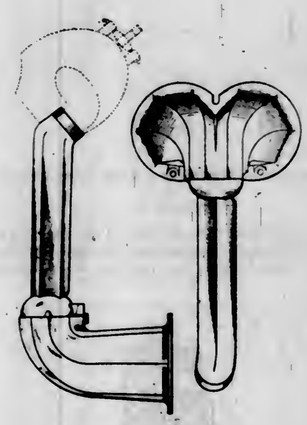
The ornamental design for a phonograph cabinet as shown.

59,751. PHONOGRAPH-CABINET. EDMOND C. HOWARD, Norfolk, Va., assignor to Granby Phonograph Corporation, a Corporation of Virginia. Filed July 15, 1921. Serial No. 485,112. Term of patent 14 years.



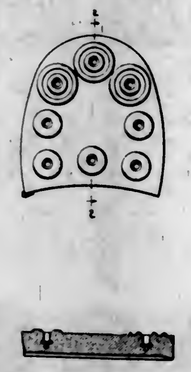
The ornamental design for a phonograph cabinet as shown.

59,752. SOUND-CONDUIT FOR PHONOGRAPHS. EDMOND C. HOWARD, Norfolk, Va., assignor to Granby Phonograph Corporation, a Corporation of Virginia. Filed July 15, 1921. Serial No. 485,113. Term of patent 14 years.



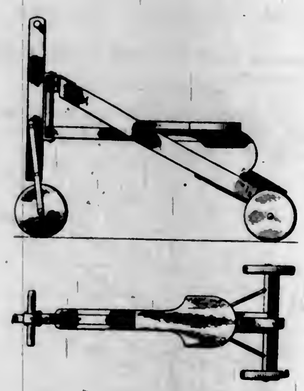
The ornamental design for a sound conduit for phonographs, as shown.

59,753. SHOE-HEEL. ROBERT IRMSLL, Akron, Ohio, assignor to The General Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 27, 1921. Serial No. 496,181. Term of patent 14 years.



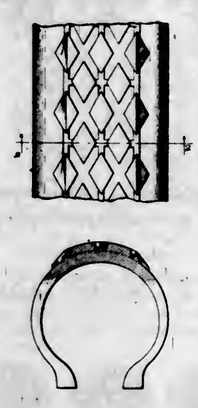
The ornamental design for a shoe heel as rhown.

59,754. CHILD'S VEHICLE. AUGUST C. KLENKE, Berkeley, Calif. Filed Dec. 22, 1919. Serial No. 346,801. Term of patent 3½ years.



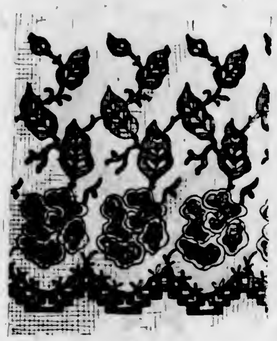
The ornamental design for a child's vehicle, as shown.

59,755. TIRE. KARL B. KILBORN and WILLIAM S. WOLFE, Akron, Ohio, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed July 5, 1921. Serial No. 482,611. Term of patent 14 years.



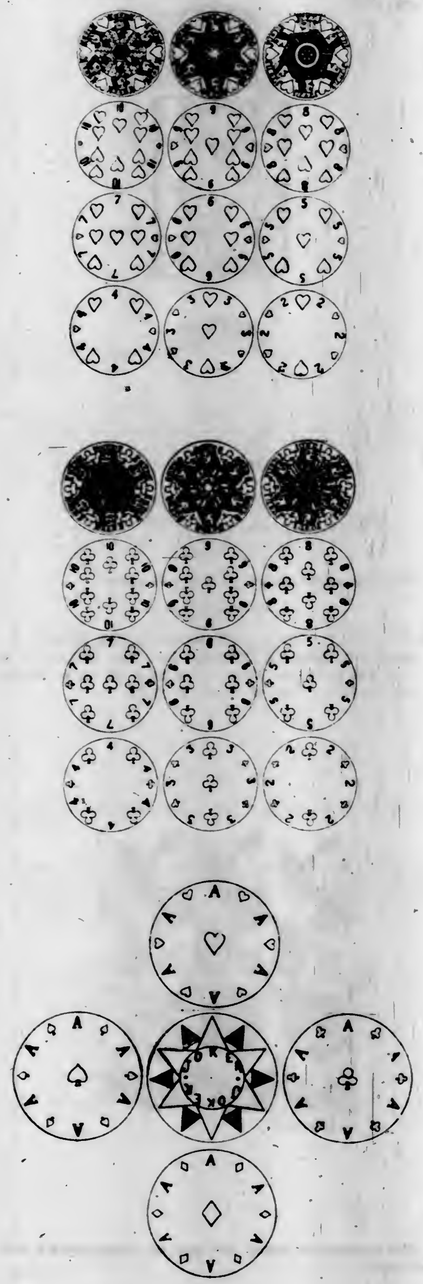
The ornamental design for a tire as shown.

59,756. LACE. THYRA O. KUMALEHTO, New York, N. Y., assignor to Blanck & Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 26, 1921. Serial No. 503,387. Term of patent 3½ years.

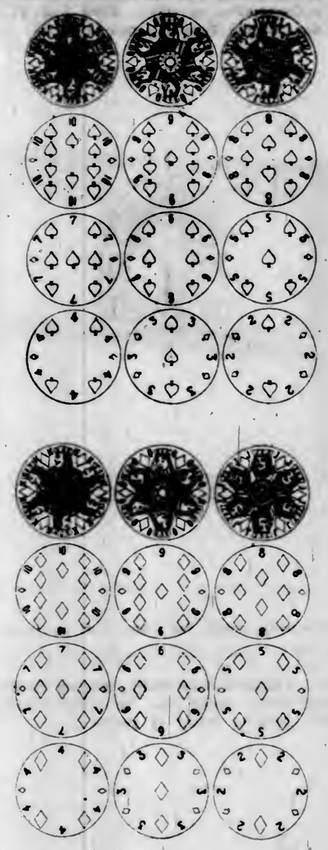


The ornamental design for lace as herein shown and described.

59,757. PACK OF PLAYING-CARDS. JOHN J. LAVER, Chicago, Ill. Filed June 23, 1921. Serial No. 479,937. Term of patent 14 years.

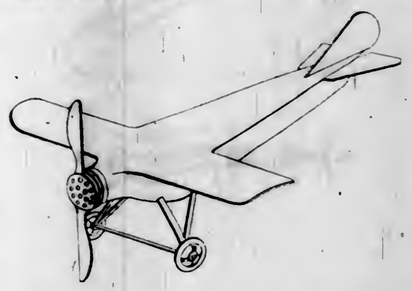


59,757.



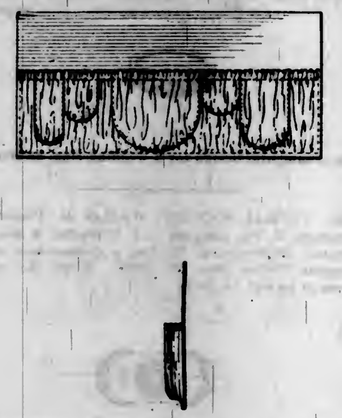
The ornamenal design for a pack of playing cards, substantially as shown.

59,758. CONDIMENT-HOLDER. LELAND LAYNE, Whittier, Calif. Filed June 7, 1921. Serial No. 475,726. Term of patent 7 years.



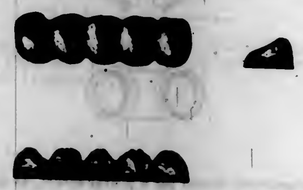
The ornamental design for a condiment holder, as shown.

59,759. POCKET MEMBER. ESTHER LEVY, New York, N. Y. Filed Jan. 12, 1921. Serial No. 436,834. Term of patent 14 years.



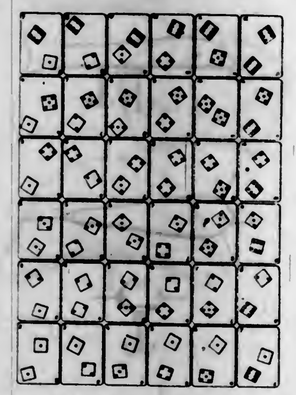
The ornamental design for a pocket member as shown.

59,760. CANDY OR SIMILAR ARTICLE OF MANUFACTURE. CELESTINA MASCONI, Brooklyn, N. Y., assignor to E. Greenfield's Sons, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 31, 1921. Serial No. 457,525. Term of patent 14 years.



The ornamental design for a candy or similar article of manufacture substantially as shown.

59,761. PACK OF PLAYING-CARDS. GEORGE L. MCCARTHY, Rye, N. Y. Filed Sept. 1, 1921. Serial No. 497,715. Term of patent 14 years.



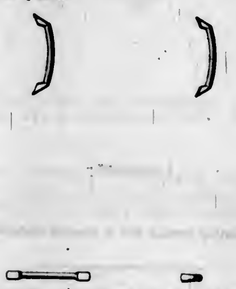
The ornamental design for a pack of playing cards, as shown.

59,762. RIBBON LOOP FOR WATCHCASES. JEREMIAH MCGRATH, Brooklyn, N. Y., assignor to Solidarity Watch Case Company, Brooklyn, N. Y., a Corporation of New York. Filed June 2, 1921. Serial No. 474,575. Term of patent 14 years.



The ornamental design for a ribbon loop for watchcases, as shown.

59,763. RIBBON LOOP FOR WATCHCASES. JEREMIAH MCGRATH, Brooklyn, N. Y., assignor to Solidarity Watch Case Company, Brooklyn, N. Y., a Corporation of New York. Filed June 2, 1921. Serial No. 474,576. Term of patent 14 years.



The ornamental design for a ribbon loop for watchcases, as shown.

59,764. BRACELET. JOSEPH MEGAR, New York, N. Y. Filed Nov. 1, 1920. Serial No. 421,185. Term of patent 3½ years.



The ornamental design for a bracelet as shown and described.

59,765. HOLDER FOR TOWELS AND OTHER ARTICLES. CHAUNCEY A. MICHAELS, New York (Jamaica), N. Y. Filed June 21, 1921. Serial No. 479,385. Term of patent 7 years.



The ornamental design for a holder for towels and other articles as herein shown.

59,766. DUPLEX BUCKLE. JAMES MILLER, Waterbury, Conn. Filed Oct. 30, 1920. Serial No. 420,817. Term of patent 7 years.



The ornamental design for a duplex buckle substantially as shown.

59,767. BOTTLE. LOUIS B. NEWELL, Baltimore, Md., assignor to Carr-Lowrey Glass Company, Baltimore, Md. Filed Apr. 9, 1921. Serial No. 460,060. Term of patent 14 years.



The ornamental design for a bottle, as shown.

59,768. WEDDING-RING. JOHN CORNELIUS O'BRIEN, St. Louis, Mo. Filed Sept. 20, 1921. Serial No. 502,074. Term of patent 14 years.



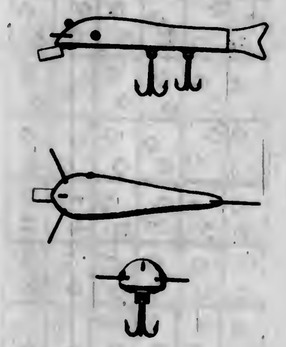
The ornamental design for a wedding ring, as shown.

59,769. PLURAL SOCKET. WILLIAM M. PARKER, Parkersburg, W. Va., assignor to J. H. Parker & Son, Incorporated, Parkersburg, W. Va., a Corporation of West Virginia. Filed May 23, 1921. Serial No. 471,993. Term of patent 14 years.



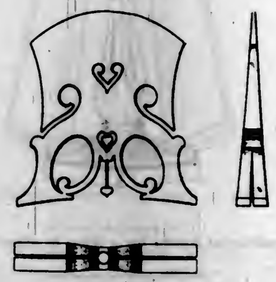
The ornamental design for a plural socket, as shown.

59,770. FISH-BAIT. JAMES N. PIGGOTT, Parkersburg, W. Va. Filed June 30, 1921. Serial No. 481,660. Term of patent 7 years.



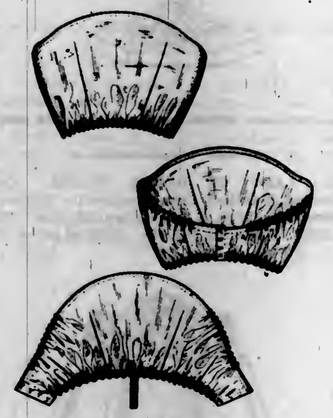
The ornamental design for a fish bait, as shown.

59,771. BRIDGE FOR STRING MUSICAL INSTRUMENTS. ERNST WALTER PLATE, Philadelphia, Pa. Filed July 1, 1921. Serial No. 481,962. Term of patent 14 years.



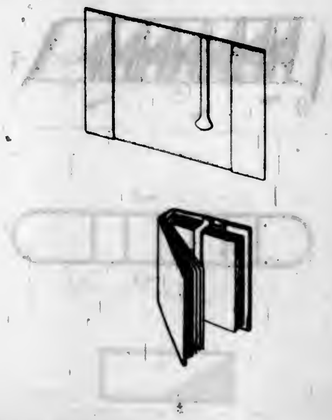
The ornamental design for a bridge for string musical instruments, as shown.

59,772. BRASSIÈRE. WALTER E. PRUZAN, New York, N. Y. Filed May 5, 1921. Serial No. 467,222. Term of patent 14 years.



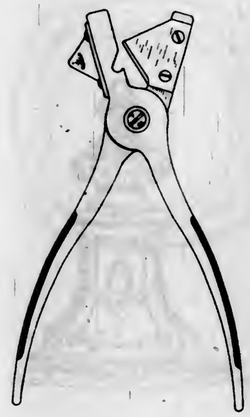
The ornamental design for a brassière, substantially as shown.

59,773. COMBINATION BOOKCOVER AND BOOKMARK OR ARTICLE OF SIMILAR NATURE. BERTRAM RAFF, New York, N. Y. Filed July 21, 1921. Serial No. 486,614. Term of patent 7 years.



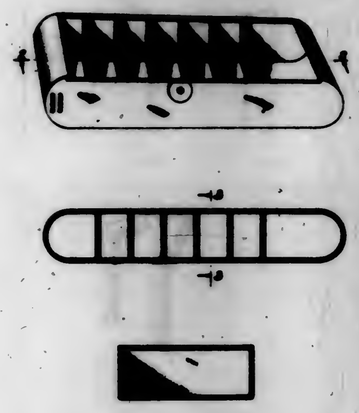
The ornamental design for a combination bookcover and bookmark or an article of similar nature, as shown.

59,774. FUSE CUTTER AND SPLITTER. RICHARD RICE, Virden, Ill., assignor of one-half to Harry Vivian, Virden, Ill. Filed June 6, 1921. Serial No. 475,455. Term of patent 3½ years.



The ornamental design for a fuse cutter and splitter, or the like as shown.

59,775. TACKLE-BOX. WILLIAM SCHEEL, Manitowoc, Wis. Filed June 24, 1921. Serial No. 480,240. Term of patent 14 years.



The ornamental design for a tackle box, as shown.

59,776. LAMP OR OTHER PEDESTAL. FREDERICK ROSTTORNE, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Oct. 21, 1921. Serial No. 509,422. Term of patent 3½ years.



The ornamental design for a lamp or other pedestal, as shown.

59,777. LAMP OR OTHER PEDESTAL. FREDERICK ROSTTORNE, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Oct. 21, 1921. Serial No. 509,423. Term of patent 3½ years.



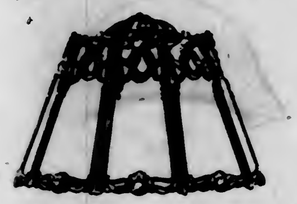
The ornamental design for a lamp or other pedestal, as shown.

59,778. LAMP OR OTHER PEDESTAL. FREDERICK ROSTTORNE, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Oct. 21, 1921. Serial No. 509,424. Term of patent 3½ years.



The ornamental design for a lamp or other pedestal, as shown.

59,779. LAMP OR OTHER SHADE. FREDERICK ROSTTORNE, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Oct. 21, 1921. Serial No. 509,425. Term of patent 3½ years.



The ornamental design for a lamp or other shade, as shown.

59,780. LAMP OR OTHER SHADE. FREDERICK ROSTTORNE, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Oct. 21, 1921. Serial No. 509,426. Term of patent 3½ years.



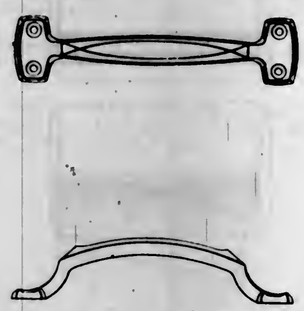
The ornamental design for a lamp or other shade, as shown.

59,781. LAMP OR OTHER SHADE. FREDERICK ROSTTORNE, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Oct. 21, 1921. Serial No. 509,427. Term of patent 3½ years.



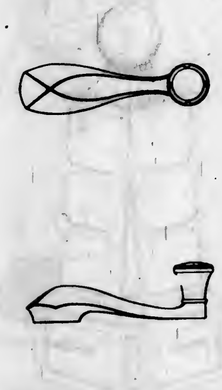
The ornamental design for a lamp or other shade, as shown.

59,782. HANDLE OR SIMILAR ARTICLE OF MANUFACTURE. AUGUST J. ROTH, Mount Vernon, N. Y., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y., a Corporation of New York. Filed Apr. 19, 1921. Serial No. 462,706. Term of patent 3½ years.



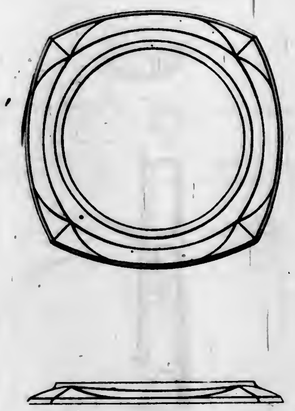
The ornamental design for a handle or similar article of manufacture, substantially as shown.

59,783. HANDLE CONSTRUCTION FOR AN AUTOMOBILE-WINDOW REGULATOR OR SIMILAR ARTICLE OF MANUFACTURE. AUGUST J. ROTH, Mount Vernon, N. Y., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y., a Corporation of New York. Filed Apr. 19, 1921. Serial No. 462,707. Term of patent 3½ years.



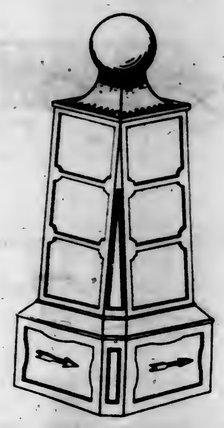
The ornamental design for a handle construction for an automobile window regulator or similar article of manufacture substantially as shown.

59,784. TRIMMING FOR AN AUTOMOBILE-DOME-LIGHT OR SIMILAR ARTICLE OF MANUFACTURE. AUGUST J. ROTH, Mount Vernon, N. Y., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y., a Corporation of New York. Filed Apr. 19, 1921. Serial No. 462,708. Term of patent 3½ years.



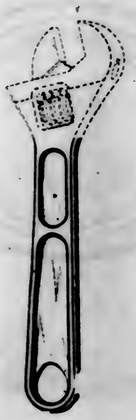
The ornamental design for a trimming for an automobile domelight or similar article of manufacture substantially as shown.

59,785. TRAFFIC-SIGNAL. GEORGE M. RUSSEL, Lawrence, Kans., and OSCAR W. RUSSEL, Kansas City, Mo. Filed July 5, 1921. Serial No. 482,899. Term of patent 7 years.



The ornamental design for a traffic signal, as shown.

59,786. HANDLE FOR WRENCHES OR SIMILAR HAND-TOOLS. LEWIS A. SAFFORD, Buffalo, N. Y., assignor to Barcalo Manufacturing Company, Buffalo, N. Y. Filed Oct. 17, 1919. Serial No. 331,485. Term of patent 14 years.



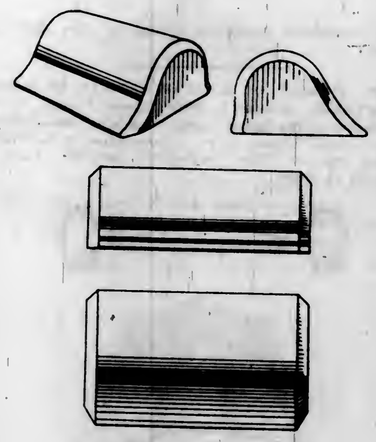
The ornamental design for a handle for a wrench or similar hand tools, substantially as shown and described.

59,787. DOLL. EVALYN R. SCATTERDAY, Columbus, Ohio. Filed July 27, 1921. Serial No. 488,029. Term of patent 7 years.



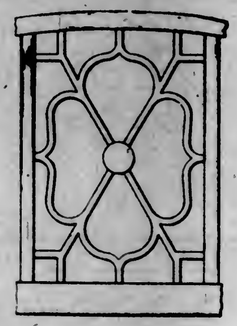
The ornamental design for a doll, as shown.

59,788. LAMP-SHADE. SAMUEL ROBERT SCHWARTZ and AUGUST BOSTROEM, New York, N. Y., assignors to said Schwartz. Filed Feb. 11, 1921. Serial No. 444,303. Term of patent 14 years.



The ornamental design for a lamp shade, substantially as shown.

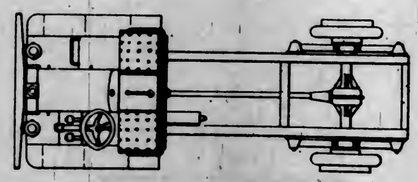
59,789. GRILLE FOR BEDSTEAD END FRAMES. CHARLES A. STUART, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Mar. 28, 1921. Serial No. 456,890. Term of patent 14 years.



The ornamental design for a grille for bedstead end frames, as shown.

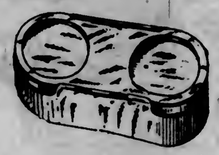
59,790. MOTOR-DRIVEN FARM-TRUCK. ALFRED T. STUBT, New York, N. Y., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Mar. 13, 1920. Serial No. 365,667. Term of patent 14 years.





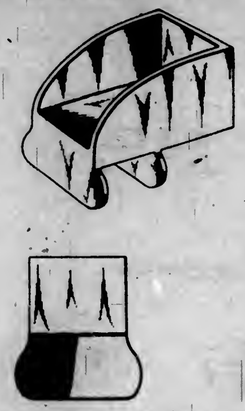
The ornamental design for a motor driven farm truck as shown.

59,791. COIN AND FARE HOLDER. JOSEPH J. SZEPE, Pittsburgh, Pa. Filed July 12, 1921. Serial No. 484,206. Term of patent 7 years.



The ornamental design for a coin and fare holder, as shown.

59,792. SPRING-HANGER BRACKET. ROBERT S. TAYLOR, Seattle, Wash. Filed June 6, 1921. Serial No. 475,443. Term of patent 7 years.



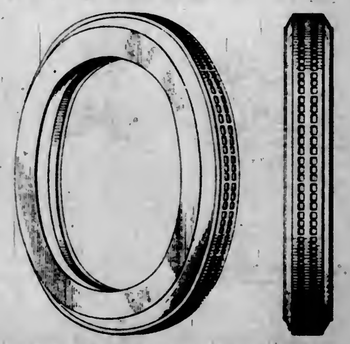
The ornamental design for a spring hanger bracket as shown.

59,793. VANITY-CASE, BROOCH, PIN, OR SIMILAR ARTICLE OF JEWELRY. PETER J. THOMPSON, Belleville, N. J. Filed Apr. 5, 1921. Serial No. 458,767. Term of patent 7 years.



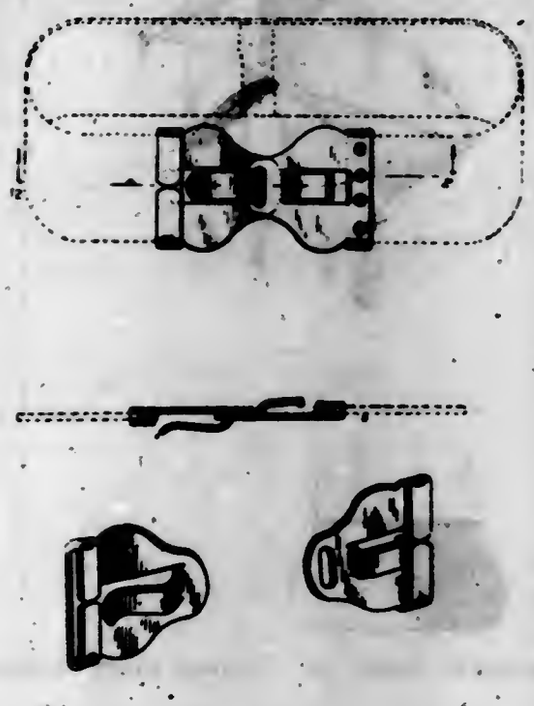
The ornamental design for a vanity case, brooch, pin, or similar article of jewelry, as shown.

59,794. VEHICLE-TIRE. WILLIAM F. TROAST, Lancaster, Pa. Filed Dec. 14, 1920. Serial No. 430,758. Term of patent 7 years.



The ornamental design for a vehicle tire as shown.

59,795. CLASP OR HOOK FOR A WAIST-BELT. Anna L. Vilandrie, New York, N. Y. Filed Feb. 1, 1921. Serial No. 441,681. Term of patent 14 years.



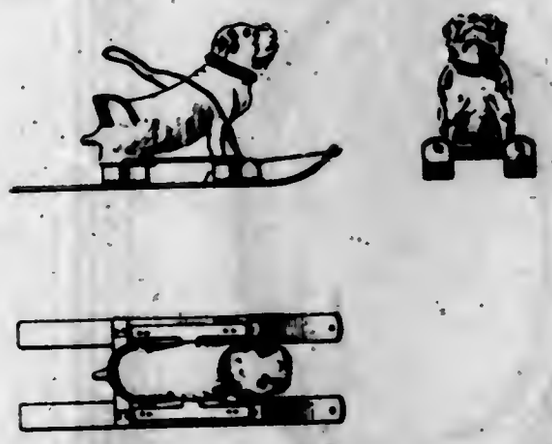
The ornamental design for a clasp or hook for a waist belt, substantially as shown.

59,796. EMBLEMATIC BADGE, PIN, OR BUTTON. Arthur G. Warren, Worcester, Mass. Filed Dec. 23, 1920. Serial No. 432,877. Term of patent 14 years.



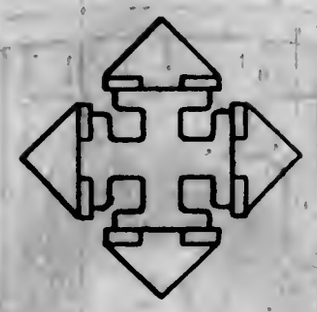
The ornamental design for an emblematic badge, pin, or button, or article of a similar nature, as shown.

59,797. SLED. Gertrude Wakeham, Marshall, Wis. Filed Aug. 12, 1921. Serial No. 491,868. Term of patent 14 years.



The ornamental design for a sled as shown and described.

59,798. CHARM. Edward L. Wiemo, Providence, R. I., assignor to Potter & Buffington Company, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 15, 1921. Serial No. 461,703. Term of patent 7 years.



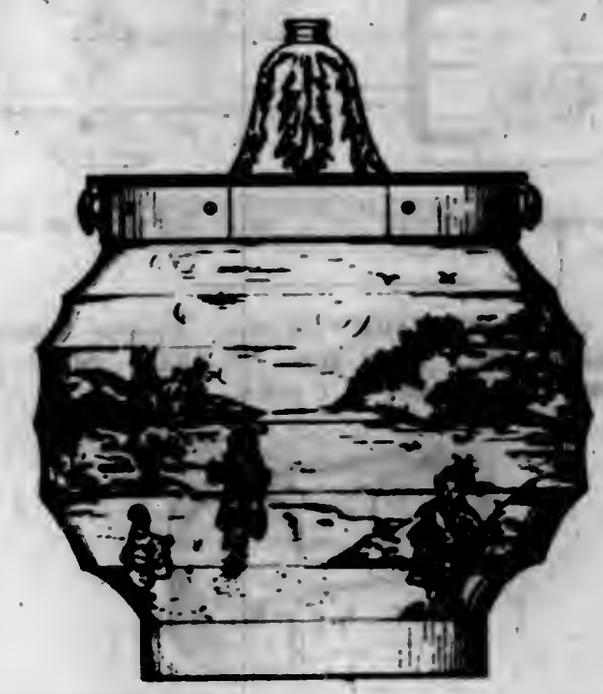
The ornamental design for a charm, as shown.

59,799. BROOCH. Bina M. West, Port Huron, Mich. Filed Mar. 28, 1921. Serial No. 456,497. Term of patent 7 years.



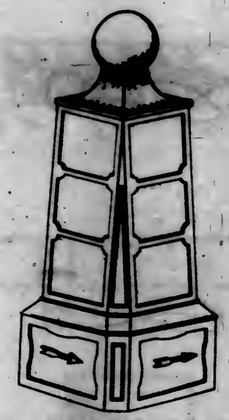
The ornamental design for a brooch, as shown.

59,800. LAMP-SHADE. Mary F. F. Wilson, New Rochelle, N. Y. Filed Mar. 31, 1920. Serial No. 457,524. Term of patent 14 years.



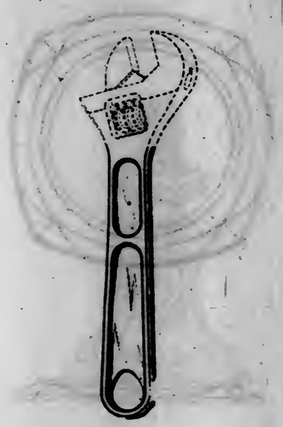
The ornamental design for a lamp shade, as shown.

59,785. TRAFFIC-SIGNAL. George H. Benson, Lawrence, Kans., and Grace W. Benson, Kansas City, Mo. Filed July 6, 1921. Serial No. 482,618. Term of patent 7 years.



The ornamental design for a traffic signal, as shown.

59,786. HANDLE FOR WRENCHES OR SIMILAR HAND-TOOLS. Lewis A. Sapphon, Buffalo, N. Y., assignor to Barcalo Manufacturing Company, Buffalo, N. Y. Filed Oct. 17, 1919. Serial No. 331,485. Term of patent 14 years.



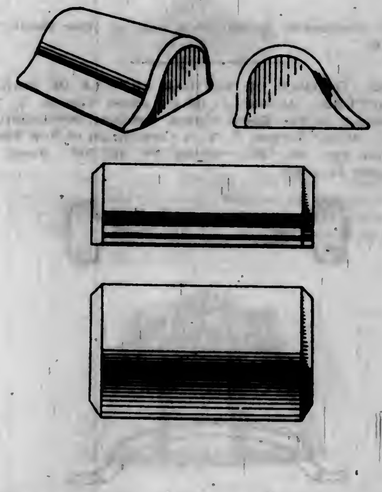
The ornamental design for a handle for a wrench or similar hand tools, substantially as shown and described.

59,787. DOLL. Evalen B. Scattergay, Columbus, Ohio. Filed July 27, 1921. Serial No. 483,619. Term of patent 7 years.



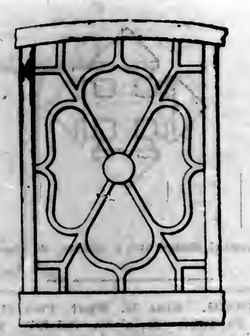
The ornamental design for a doll, as shown.

59,788. LAMP-SHADE. Samuel Robert Schwartz and August Bostrom, New York, N. Y., assignors to said Schwartz. Filed Feb. 11, 1921. Serial No. 444,303. Term of patent 14 years.



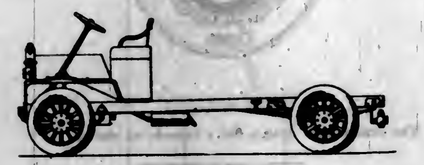
The ornamental design for a lamp shade, substantially as shown.

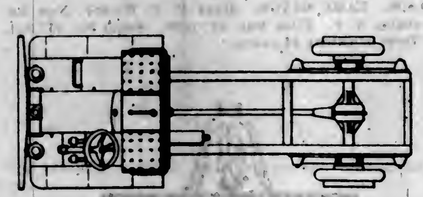
59,789. GRILLE FOR BEDSTEAD END FRAMES. Charles A. Bunge, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Mar. 26, 1921. Serial No. 456,390. Term of patent 14 years.



The ornamental design for a grille for bedstead end frames, as shown.

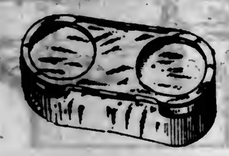
59,790. MOTOR-DRIVEN FARM-TRUCK. Alfred T. Stuht, New York, N. Y., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Mar. 13, 1920. Serial No. 365,667. Term of patent 14 years.





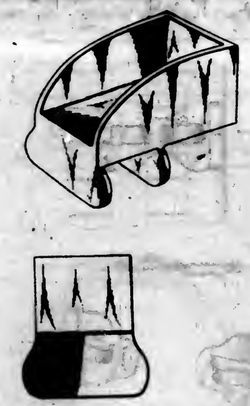
The ornamental design for a motor driven farm truck as shown.

59,791. COIN AND FARE HOLDER. Joseph J. Szepe, Pittsburgh, Pa. Filed July 12, 1921. Serial No. 484,206. Term of patent 7 years.



The ornamental design for a coin and fare holder, as shown.

59,792. SPRING-HANGER BRACKET. Robert S. Taylor, Seattle, Wash. Filed June 6, 1921. Serial No. 475,448. Term of patent 7 years.



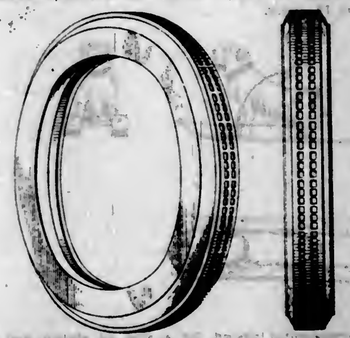
The ornamental design for a spring hanger bracket as shown.

59,793. VANITY-CASE, BROOCH, PIN, OR SIMILAR ARTICLE OF JEWELRY. Peter J. Thompson, Belleville, N. J. Filed Apr. 5, 1921. Serial No. 458,767. Term of patent 7 years.



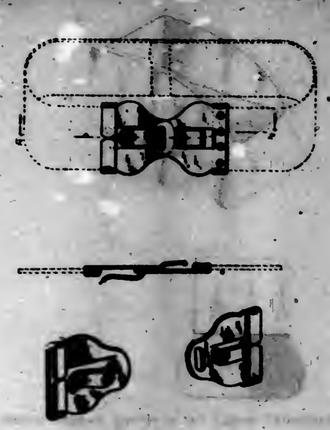
The ornamental design for a vanity case, brooch, pin, or similar article of jewelry, as shown.

59,794. VEHICLE-TIRE. William F. Troast, Lancaster, Pa. Filed Dec. 14, 1920. Serial No. 430,758. Term of patent 7 years.



The ornamental design for a vehicle tire as shown.

59,795. CLASP OR HOOK FOR A WAIST-BELT. Anita L. Vreeland, New York, N. Y. Filed Feb. 1, 1921. Serial No. 441,051. Term of patent 14 years.



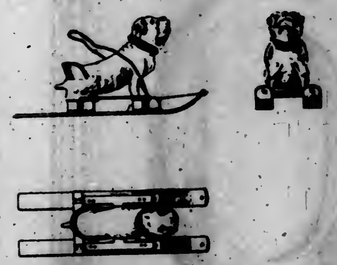
The ornamental design for a clasp or hook for a waist belt, substantially as shown.

59,796. EMBLEMATIC BADGE, PIN, OR BUTTON. Arthur G. Warren, Worcester, Mass. Filed Dec. 23, 1920. Serial No. 432,877. Term of patent 14 years.



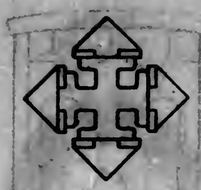
The ornamental design for an emblematic badge, pin, or button, or article of a similar nature, as shown.

59,797. SLED. Gertrude Wakeham, Marshall, Wis. Filed Aug. 12, 1921. Serial No. 491,868. Term of patent 14 years.



The ornamental design for a sled as shown and described.

59,798. CHARM. Edward L. Weiss, Providence, R. I., assignor to Potter & Robinson Company, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 15, 1921. Serial No. 461,766. Term of patent 7 years.



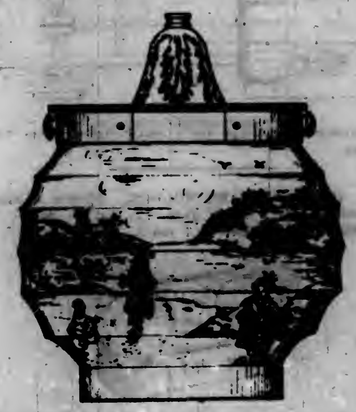
The ornamental design for a charm, as shown.

59,799. BROOCH. Rena M. West, Port Huron, Mich. Filed Mar. 28, 1921. Serial No. 456,497. Term of patent 7 years.



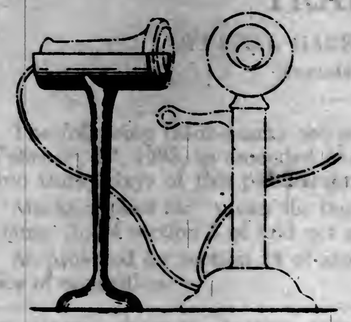
The ornamental design for a brooch, as shown.

59,800. LAMP-SHADE. Mary F. F. Wilson, New Rochelle, N. Y. Filed Mar. 31, 1920. Serial No. 457,524. Term of patent 14 years.



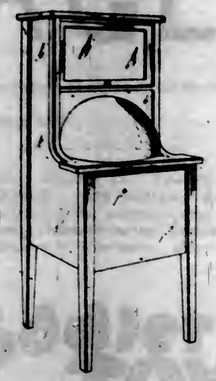
The ornamental design for a lamp shade, as shown.

59,801. TELEPHONE-RECEIVER HOLDER. Benjamin Wien, New York, N. Y. Filed Apr. 9, 1921. Serial No. 460,063. Term of patent 7 years.



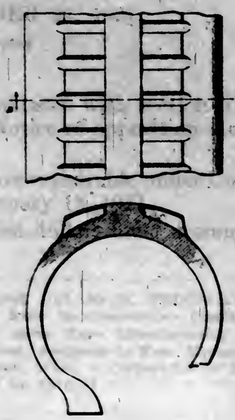
The original design for a telephone receiver holder, as shown.

59,802. PHONOGRAPH-CABINET. Charles T. Wittstein, Newark, N. J. Filed June 15, 1921. Serial No. 477,528. Term of patent 14 years.



The ornamental design for a phonograph cabinet, as shown.

59,803. TIRE. William S. Wolfe, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed July 5, 1921. Serial No. 482,607. Term of patent 14 years.



The ornamental design for a tire, as shown.

59,804. SHEET-METAL STOCK FOR MAKING CELLS OR CONTAINERS FOR ELECTRICAL ACCUMULATORS. Charles Henry Worsnop, Halifax, England. Filed Feb. 28, 1921. Serial No. 448,611. Term of patent 14 years.



The ornamental design for sheet metal stock for making cells or containers for electrical accumulators, as shown and described.

[PUBLISHED NOVEMBER 22, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 117,760. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) JOHN WRIGHT & EAGLE RANGE, LTD., Birmingham, England. Filed Apr. 22, 1919.

EAGLE

Particular description of goods.—Gas-Heated Metallurgical Furnaces.
Claims use since 1879.

Ser. No. 119,369. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE RICHARDS MANUFACTURING COMPANY, Marietta, Ohio, assignors, by mesne assignments, to Gould Manufacturing Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed June 9, 1919.

Toddlet Toys

No claim is made to the word "Toys" apart from the mark shown in the drawing.
Particular description of goods.—Wheeled Riding Toys.
Claims use since Sept. 1, 1917.

Ser. No. 119,498. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) L. S. BRACH MFG. CO., INC., Newark, N. J. Filed June 12, 1919.

AMERICAN ACE

Particular description of goods.—Electric Heating-Irons, Electric Soldering-Irons, and Lightning-Arresters.
Claims use since May 1, 1919.

Ser. No. 119,906. (CLASS 38. PRINTS AND PUBLICATIONS.) KAPO MANUFACTURING COMPANY, (now by change of name Kapo Manufacturing Corporation,) Boston, Mass., assignors to Kapo Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed June 24, 1919.

A REGULAR HOLD UP

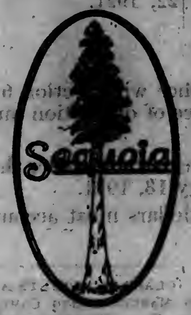
Particular description of goods.—Annual Catalogues.
Claims use since on or about Mar. 25, 1919.

Ser. No. 120,318. (CLASS 39. CLOTHING.) ROSENTHAL, FLEISCHER & CIE., Göppingen, Germany. Filed July 7, 1919.



Particular description of goods.—Corsets, Corset-Covers, Bodices, Bust-Supporters, Breast-Forms, and Brassières.
Claims use since July 8, 1887.

Ser. No. 120,430. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) KAPO MANUFACTURING COMPANY, (now by change of name Kapo Manufacturing Corporation,) Boston, Mass., [illegible] Manufacturing Company, Boston, Mass., a corporation of Massachusetts. Filed July 12, 1919.



Particular description of goods.—Knitted Piece Goods of Wool, Worsted, and Cotton.
Claims use since on or about May 15, 1913.

Ser. No. 125,089. (CLASS 39. CLOTHING.) MAX A. R. KING, INC., Philadelphia, Pa. Filed Nov. 10, 1919.



Wherein the panel across the word "King" is red as illustrated by the cross-lines. No claim is made to the word "Shoes" apart from the mark as shown on the drawing.
Particular description of goods.—Leather, Rubber, and Canvas Shoes.
Claims use since about Nov. 1, 1919.

Ser. No. 125,919. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) TIMES SQUARE AUTO SUPPLY CO., INC., New York, N. Y. Filed Dec. 12, 1919.



Particular description of goods.—Automobile Tires of Rubber and of Combinations of Rubber and Fabric, Inner Tubes for Tires, Rubber Reliners, and Rubber Blow-Out Patches.
Claims use since Sept. 16, 1919.

Ser. No. 122,718. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ARTHUR C. BRUBE, Virginia, Minn. Filed May 21, 1920.



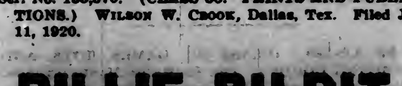
Particular description of goods.—A Game in Which Cards or Blocks may be Arranged in Different Manners to Form Various Designs.
Claims use since May 15, 1920.

Ser. No. 122,576. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGIA CHEMICAL BOLOGY, San Francisco, Calif. Filed June 7, 1920.



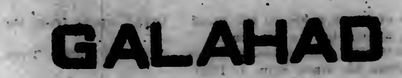
Particular description of goods.—A Non-Massage Liquid Mask.
Claims use since Aug. 20, 1918.

Ser. No. 122,570. (CLASS 38. PRINTS AND PUBLICATIONS.) WILSON W. CROOK, Dallas, Tex. Filed June 11, 1920.



Particular description of goods.—A Publication Published Periodically, But at No Definite Date.
Claims use since the latter part of May, 1920.

Ser. No. 123,176. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HADFIELDS LTD., Sheffield, England. Filed June 16, 1920.



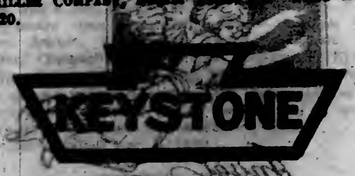
Particular description of goods.—Table, Kitchen, Pocket, and Butchers' Knives and other Knives Used by Hand; Razors, Scissors, Files and Rasps, Handsaws, Hacksaw-Blades, Machine-Saws, Milling-Cutters, Shear-Blades, Reamers, Twist-Drills, Miners' and Rock Drills, Lathes, Hatchets, Axes, Plane-Irons, Shears, Hammers, Hoes, Spades, Shovels, Picks, Rakes, Spanner-Wrenches, Fire-Colters, Magnifying Glasses and Engineers' Dies, Pliers, Pincers, Tobacco-Knives, Paper-Knives Used in Machines, Wood-Planing Irons for Molding and Grooving, Wheels and Axles Being Parts of Machines, Stone-Breaking Machinery, Ore-Breaking Machinery, Pistons, Hydraulic and Pneumatic Rams, Hydraulic and Pneumatic Pumps, Internal-Combustion Engines and Valves and other Parts Thereof.
Claims use since Feb. 22, 1916.

Ser. No. 125,426. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) GEAR WHEELS REMOVAL COMPANY, Philadelphia, Pa. Filed July 27, 1920.



Particular description of goods.—Automobiles.
Claims use since June 15, 1920.

Ser. No. 125,656. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KEYSTONE DRILLER COMPANY, Beaver Falls, Pa. Filed Aug. 6, 1920.



Particular description of goods.—Power Percussion Well-Drilling Machines and Cable Well-Drilling Machines, Steam-Engines, Sand-Pumps, Bailers, Wrench-Bars, Floor-Jacks, Well-Driving, Fishing-Tools, Rock-Drilling Tools, Pipe-Pulling Rings, Pipe-Pulling Jars, Internal-Combustion Engines, Core-Drills, Steam and Power Shovels; Excavators, Ditchers, and Trenching-Machines; Back-Fillers, Portable Cranes.
The trade-mark has been continuously used in the business of said corporation on power percussion well-drilling machines and cable well-drilling machines, steam-engines, sand-pumps, bailers, wrench-bars, floor-jacks, well-driving fishing-tools, and well-drilling tools since 1878; on pipe-pulling rings and pipe-pulling jars since 1895; on internal-combustion engines since 1900; on core-drills since 1910, and on steam and power shovels, excavators, ditchers and trenching-machines, back-fillers, portable cranes, since 1913.

Ser. No. 126,057. (CLASS 32. GLASSWARE.) AMERICAN WHOLESALE CORPORATION (BALTIMORE BARGAIN HOUSE,) Baltimore, Md. Filed Aug. 13, 1920.



Particular description of goods.—Cut Glass of All Kinds, Sheet-Glass, Glass Tableware, Ornamental Glassware, Glass Bottles, Glass Jars.
Claims use since June 27, 1919.

Ser. No. 127,328. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES ARTHUR BEECH-FIELD, New York, N. Y. Filed Sept. 16, 1920.



Particular description of goods.—Candy.
Claims use since July 2, 1919.

Ser. No. 127,353. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) LEOPOLD ASCHER, New York, N. Y. Filed Sept. 20, 1920.



Particular description of goods.—Lather and Hair Brushes.
Claims use since July 1, 1919.

Ser. No. 127,689. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) UNION EXPLOSIVES CO., Clarksburg, W. Va. Filed Sept. 27, 1920.



Particular description of goods.—Dynamite and Permissible Explosives—to wit, Ammonium Nitrate, Nitroglycerin, and Nitrostarch Explosives.
Claims use since May 15, 1920.

Ser. No. 137,709. (CLASS 18. PAINTS AND PAINTERS' MATERIALS.) Textone Lac Company, New York, N. Y. Filed Sept. 30, 1920.



No claim being made to the words "Polish" or "Lac" apart from the mark shown in the drawing.

Particular description of goods.—Polish for Furniture, Automobiles, and the Like.

Claims use since May 1, 1920.

Ser. No. 138,322. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) Annie Lichtenstein, New York, N. Y. Filed Oct. 15, 1920. (Under ten-year proviso.)

Samson

Particular description of goods.—Hair-Combs other Than of Precious Metals.

Claims use since Aug. 1, 1880.

Ser. No. 138,966. (CLASS 39. CLOTHING.) Florence Weinberg, New York, N. Y. Filed Oct. 29, 1920.

THE 2 IN 1

Particular description of goods.—Ladies' Brassières.

Claims use since Sept. 15, 1920.

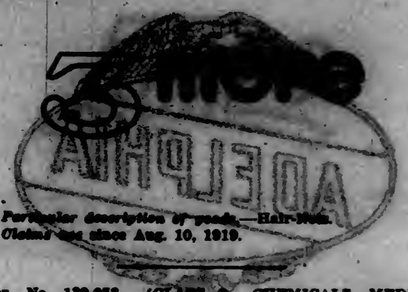
Ser. No. 138,991. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) The Wm. Meyer Company, Chicago, Ill. Filed Oct. 30, 1920.

DENTOSCOPE

Particular description of goods.—X-Ray Tables and Stands.

Claims use since May 14, 1919.

Ser. No. 139,395. (CLASS 42. KNITTED, NETTED, AND WOVEN FABRICS.) Fiber River Corporation, Philadelphia, Pa. Filed Nov. 12, 1920.



Particular description of goods.—Hair-Nets.

Claims use since Aug. 10, 1919.

Ser. No. 139,653. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Angel Dainty Dye Co., Chicago, Ill. Filed Nov. 15, 1920.



No claim being made to the words "Dainty Dyes" and "Trade Mark" apart from the mark shown.

Particular description of goods.—Cloth-Dyes in Powder Form.

Claims use since Apr. 13, 1920.

Ser. No. 139,660. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) John R. Wood, Irvington, N. J., assignor to New Process Multi-Castings Company, Newark, N. J., a Corporation of New Jersey. Filed Nov. 15, 1920.

MULTI-CAST

Particular description of goods.—Molds for Shaping Molten Metal.

Claims use since Jan. 15, 1920.

Ser. No. 139,792. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Bayan Perfumery Co., Inc., New York, N. Y. Filed Nov. 18, 1920.

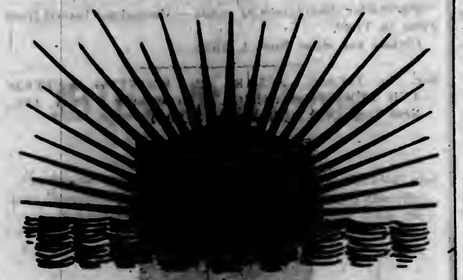


Consisting of the representation of a butterfly in reddish brown and green hues, a rose of red color, green leaves, and a [illegible] field.

Particular description of goods.—Perfume, Toilet Water, Sachet, Cold-Cream, Vanishing Cream, Face-Powder, Compact-Powder, Rouge, Lip-Sticks, Eyebrow-Pencils, Talcum Powder, and Liquid Dressing for the Hair of the Brilliantine Type, the above articles being packed either separately or in combination in what is known as vanity-cases or combination-cases.

Claims use since Apr. 8, 1920.

Ser. No. 139,903. (CLASS 18. PAINTS AND PAINTERS' MATERIALS.) Thomas J. Nevins, St. Louis, Mo. Filed Nov. 19, 1920.



WILL SHINE

No claim is made for the use of the words "Will Shine" apart from the mark as shown on the drawing.

Particular description of goods.—A Liquid Polish for Automobiles.

Claims use since Aug. 26, 1920.

Ser. No. 140,033. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) Eastern Tube & Tool Company, Inc., Brooklyn, N. Y. Filed Nov. 23, 1920.



The word "Loom" being disclaimed apart from the mark as shown.

Particular description of goods.—Flexible Woven Tubing Used for Conduits for Electrical Wires.

Claims use since Nov. 8, 1920.

Ser. No. 140,890. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) The Harbaugh Company, Belleville, N. J. Filed Dec. 10, 1920.



Particular description of goods.—Lather-Brushes.

Claims use since June 4, 1920.

Ser. No. 141,090. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) Floyd G. Withrow, Grand Rapids, Mich. Filed Dec. 14, 1920.

HANDY

Particular description of goods.—Automobile Parts and Accessories—Namely, Tie-Rod Antirattlers, Brake-Rod Antirattlers, Steering-Arm Shock-Absorber, Big Brake Antirattlers, Steering-Wheel Clutch-Lock, Throttle and Gas Rod Antirattlers, Gear-Shift Antirattlers, Grease-Retainer for Rear Axles of Ford Cars, Shift-Rod Antirattler, and Gas and Spark Rod Antirattler.

Claims use since spring 1915.

Ser. No. 141,412. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) ROSENTHAL MESSLLWARENFABRIK ARTHUR KRAUS A. G., Bernkastel, Lower Austria. Filed Dec. 22, 1920.



Particular description of goods.—Reduced Nickel-Silver Articles Electroplated with Gold and Silver—viz., Absinthe-Cups, Absinthe-Spoons, Ash-Trays, Asparagus-Servers, Asparagus-Services, Baskets, Beer-Jugs, Beer-Mugs, Biscuit-Boxes, Biscuit-Stands, Bonbon-Dishes, Bonbon-Boxes, Bottle-Holders, Bottle-Stands, Bottle-Trays, Bowls, Bowl-Ladles, Breakfast-Services, Bread-Baskets, Bread-Forks, Bread-Trays, Butter-Coolers, Butter-Knives, Butter-Plates, Butter-Dishes, Cafetieres, Cake-Stands, Cake-Baskets, Cake-Trays, Cake-Trowels, Candelabras, Candlesticks, Card-Trays, Carver-Rests, Caviar-Dishes, Centerpieces, Celery-Stands, Chafing-Dishes, Champagne-Jugs, Champagne-Services, Cheese-Covers, Cheese-Dishes, Cheese-Grates, Cheese-Trays, Cheese-Scoops, Child's Mugs, Chocolate-Pots, Cigar-Baskets, Cigar-Boxes, Cigar-Stands, Cigarette-Boxes, Cigarette-Cases, Café-au-Lait Services, Claret-Jugs, Claret-Jug Trays, Cloth-Brushes, Coffee-Cups, Coffee-Machines, Coffee-Pots, Coffee-Services, Combs, Comb-Boxes, Complete Services; Corks, Fancy; Cocktail-Mixers, Cork-Holders, Corkscrews, Cream-Bowls, Cream-Jugs, Cream-Stands, Cruet-Frames, Cruet-Trays, Crumb-Brushes, Crumb-Scoops, Cups, Dishes, Dish-Covers, Dinner-Cruets, Dinner-Plates, Divisions for Dishes, Egg-Cups, Egg-Dishes, Egg-Spoons, Entrée-Dishes, Finger-Bowls, Fish-Dishes, Fish-Carvers, Fish-Plates, Flower-Baskets, Flower-Dishes, Flower-Holders, Flower-Pots, Flower-Vases, Forks, Fruit-Baskets, Fruit-Bowls, Fruit-Coolers, Fruit-Dishes, Fruit-Knife Stands, Fruit-Stands, Goblets, Glove-Boxes, Grape-Washing Bowls, Grape-Dishes, Grape-Scissors, Grape-Stands, Gravy-Ladles, Gravy-Spoons, Hair-Brushes, Hand-Mirrors, Hat-Brushes, Honey-Dishes, Honey-Pots, Hors-D'Oeuvre Dishes, Hot-Water Jugs, Ice-Cups, Ice-Caddies, Ice-Pails, Ice-Scoops, Ice-Plates, Ice-Services, Ice-Cream Dishes, Ice-Cream Knives, Ice-Cream Plates, Ice-Cream Spades, Ice-Cream Spoons, Inkstands, Jam-Dishes, Jam-Spoons, Jam-Stands, Jardinières, Jelly-Stands, Jelly-Dishes, Jewel-Boxes, Jugs, Knife-Rests, Knife-Trays, Lemon-Extractors, Lemon-Squash Spoons, Lemon-Squeezers, Lemonade-Jugs, Letter-Seals, Letter-Weights, Liqueur-Bottles, Liqueur-Cups, Lobster-Picks, Luncheon-Cruets, Marrow-Scoops, Marmalade-Dishes, Marmalade-Spades, Marmalade-Spoons, Matches-Boxes, Match-Stands, Meat-Carver Rests, Meat-Dishes, Meat-Skewers, Meat-Plates, Menu-Holders, Milk-Jugs, Mirror-Mountings, Muffineers, Mustard-Pots, Napkin-Rings, Nut-Crackers, Nut-Dishes, Oil and Vinegar Cruets, Olive-Dishes, Oyster-Forks, Oyster-Stands, Pastry-Stands, Pepper-Dredgers, Pepper-Mills, Pepper and Salt Stands, Pepper-Pots, Perfume-Bottles, Photo-Frames, Pickle-Casters, Pickle-Forks, Pickle-Jars, Plates, Plate-Covers, Tomado-Boxes, Powder-Boxes, Powder-Brushes, Preserve-Dishes, Preserve-Stands, Price-Cups, Punch-Glass Holders, Punch-Bowls, Punch-Ladles, Salad-Bowls, Salad-Servers, Salt-Cellars, Salt-Dredgers, Salt-Spoons, Sardine-Boxes, Sauce-Boats, Sauce-Spoons, Savings-Banks, Scent-Bottles, Serviette-Rings, Skewers, Smoking Sets, Soap-Boxes, Soup-Tureens, Spoon-Trays, Spoon-Vases, Spice-Stands, Sponge-Boxes, Sponge-Baskets, Spoon-Baskets, Spoon-Cups, Spoons and Forks, Stockpots, Sugar-Holders, Soup-Dishes, Strainers, Sugar-Basins, Sugar-Baskets, Sugar-Bowls, Sugar-Crushers, Sugar and Cream Stands, Sugar-Sifters, Sweets-Boxes, Sweets-Dishes, Syrup-Jugs, Table-Bells, Table-Cutlery, Table-Forks, Table-Knives, Tablespoons, Tankards, Teaspoons, Tea-Cups, Tea-Kettles, Tea-Caddies, Tea-Glasses with Holders, Tea-Machines, Tea-Infusers, Teakettles, Teapots, Tea-Services, Tea-Strainers, Tea-Strainer Bowls, Tea-Trays, Tea- and Coffee-Sets, Toast-Racks, Toddy-Spoons, Table and Dessert-Knives, Toothpick-Stands, Tooth-Powder Boxes, Trivets, Turkish Coffee Pots, Vegetable-Dishes, Vinaigrettes, Water-Dishes, Waiters, Wall-Sconces, Wash-Hand-Basins, Wash Hand-Basins, Watch-Holders, Whisk-Services, Water-Jugs, Wine-Carriages, Wine-Coolers, Wine-Cooler Stands, Wine-Corks, Wine-Label Stamps, Wine-Cups, Wine-Services, Wine-Jugs, Wine-Glass Stands, Writing Sets with Electroplated Mountings.

Claims use since Sept. 11, 1915.

Ser. No. 141,638. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHR. HANSEN'S LABORATORY, Inc., Little Falls, N. Y. Filed Dec. 23, 1920.

JUNKET

Particular description of goods.—Food-Colors for Deserts, Candies, Ice-Cream, Cakes, Gelatin, Jellies, Icings, and Goods of a Similar Nature.

Claims use since 1908.

Ser. No. 141,640. (CLASS 38. PRINTS AND PUBLICATIONS.) YELLOW DUCK PUB. CO., New York, N. Y. Filed Dec. 29, 1920.

THE YELLOW DUCK

Particular description of goods.—Magazines Issued from Time to Time.

Claims use since Nov. 1, 1920.

Ser. No. 141,669. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ALEXANDER & CLAY, Inc., New York, N. Y. [illegible]



Which is designed to show a self-stripe having the appearance of satin arbitrarily displayed upon and extending longitudinally along the edge of the goods. The representation of the fabric on which the trade-mark is shown in the drawing is disclaimed.

Particular description of goods.—Silk Fabrics Known as Crepe de Chine in the Piece.

Claims use since Apr. 1, 1919.

Ser. No. 141,963. (CLASS 32. FURNITURE AND UPHOLSTERY.) I. X. L. FURNITURE COMPANY, Goshen, Ind. Filed Jan. 3, 1921.



Particular description of goods.—Kitchen Cabinets and Tables.

Claims use since Oct. 26, 1920.

Ser. No. 142,278. (CLASS 23. OILS AND GREASES.) SUN COMPANY, Philadelphia, Pa. Filed Jan. 14, 1921.

SUNOCO

Particular description of goods.—Gasolene, Diesel Distillate, Fuel and Gas Oils, Cutting-Oils, Kerosene, Crude Scale Wax, Refined Wax, and Oil for Lubricating Cordage.

Claims use since about 1909.

Ser. No. 142,635. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE MILLER RUBBER COMPANY, Akron, Ohio. Filed Jan. 22, 1921.

Blue Ribbon

Particular description of goods.—Water Bottles and Bags Designed for Warming or Cooling Parts of the Body, Fountain-Syringes, Combination-Syringes, and Fever Bottles and Bags.

Claims use since Jan. 6, 1921.

Ser. No. 142,906. (CLASS 17. TOBACCO PRODUCTS.) CONGRESS CIGAR CO., Philadelphia, Pa. Filed Feb. 5, 1921.

LA PALINA

Particular description of goods.—Cigars.

Claims use since Dec. 26, 1900.

Ser. No. 143,014. (CLASS 38. PRINTS AND PUBLICATIONS.) BARBER EXTRACT COMPANY, Springfield, Illinois. Filed Feb. 8, 1921.



Particular description of goods.—Printed Booklet of Recipes.

Claims use since on or about Jan. 1, 1921.

Ser. No. 143,404. (CLASS 39. CLOTHING.) REINS & MEYER, Cincinnati, Ohio. Filed Feb. 10, 1921.

AMERICAN BEAUTY ROSE

Particular description of goods.—Hosiery for Men, Women, and Children.

Claims use since Jan. 2, 1906.

Ser. No. 143,842. (CLASS 38. PRINTS AND PUBLICATIONS.) ARTHUR W. STEDMAN, Inc., New York, N. Y. Filed Feb. 19, 1921.

RUBBERGRAM

Particular description of goods.—A Post-Card Bearing Printed Matter and a Message and Issued Every Tuesday and Friday.

Claims use since Nov. 27, 1920.

Ser. No. 144,109. (CLASS 39. CLOTHING.) SOHON SYSTEM, New York, N. Y. Filed Feb. 26, 1921.

HOP-SCOTCH

Consists of the words "Hop Scotch."

Particular description of goods.—Children's Play-Dresses.

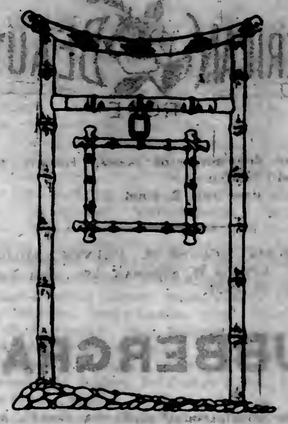
Claims use since Dec. 1, 1920.

Ser. No. 144,666. (CLASS 12. CONSTRUCTION MATERIALS.) WM. CAMERON & Co. Inc., Waco, Tex. Filed Mar. 9, 1921.

IDEAL

Particular description of goods.—Sash, Doors, Blinds, Moldings, Columns, Flooring, Newels, Balusters, Spindles, Stair-Rails, Interior and Exterior Wood Trim, Wainscoting, Screen Doors and Windows, Wooden Picket Fence, All of the Foregoing Being Wood Products; Building-Papers, Insulating-Papers, Waterproof Papers; Roofing Materials of Felt, Metal, Wood, Asphalt, or Composition; Roofing Artificial Pitch; Roofing-Cement, Being Asphalt or Tar Products Used in Preserving, Cementing, Applying, or Repairing of Felt; Interlocking Metal or Composition Roofing Used in Building Construction, Stucco, Plaster-Board, Wall-Board, Building-Brick, Building-Tile, Fire Brick and Weather-Strips, Metal Strips, Metal Reinforcement, Metal Sheathing, Metal Roofing, Metal Ceiling, Door and Window Frames, Stair-Treads, and Stair-Risers.
Claims use since Oct. 1, 1920.

Ser. No. 145,017. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) HALL MANUFACTURING CO., Chicago, Ill. Filed Mar. 21, 1921.



Particular description of goods.—Fiber Needles for Phonographs.
Claims use since Jan. 1, 1921.

Ser. No. 145,161. (CLASS 39. CLOTHING.) GLORIANNA SILK MILLS, INC., Jersey City, N. J. Filed Mar. 24, 1921.

GLORIANNA

Particular description of goods.—Hosiery, Knitted and Textile Fabric Underwear for Men, Women, and Children, and Fabric Gloves.
Claims use since Sept. 16, 1920.

Ser. No. 145,577. (CLASS 39. CLOTHING.) LOUIS F. MERCALF, Greenville, Ala. Filed Apr. 1, 1921.

DOUBLALLS

Particular description of goods.—Union Working-Garments.
Claims use since Feb. 1, 1921.

Ser. No. 145,745. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) FINNISH CELLULOSE UNION, Helsingfors, Finland. Filed Apr. 5, 1921.

FINLAND SUOMI

No claim being made to the exclusive use of the words "Finland Suomi" apart from the mark as shown in the drawing.
Particular description of goods.—Wood-Pulp.
Claims use since Nov. 17, 1919.

Ser. No. 146,204. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) ANGELO COLLETTI, Chicago, Ill. Filed Apr. 15, 1921.



Particular description of goods.—Non-Alcoholic, Non-Cereal Maltless Beverage Sold as a Soft Drink.
Claims use since Apr. 1, 1921.

Ser. No. 146,312. (CLASS 12. CONSTRUCTION MATERIALS.) GOSHEN SASH AND DOOR COMPANY, Goshen, Ind. Filed Apr. 18, 1921.

DEPENDABLE GOSHEN MILLWORK

No claim is made to the words "Goshen," "Dependable," and "Mill Work" apart from the mark shown on the drawing.
Particular description of goods.—Sash, Doors; Millwork—Namely, Door and Window Frames, Interior Finish, Casing, Base, Window Stool and Apron, Door and Window Stops, Fillet and Shoe; Cabinet-Work—Namely, Panelwork, Wainscoting.
Claims use since 1917.

Ser. No. 146,473. (CLASS 39. CLOTHING.) WINSHIP, BOIT & Co., Wakefield, Mass., and New York, N. Y. Filed Apr. 20, 1921. Under ten-year proviso.

Harvard Mills

Particular description of goods.—Underwear—Namely, Union-Suits and Two-Piece Suits; One and Two Piece Bathing Suits, Shawls, Scarfs, Athletic Suits, Jackets, Mufflers, Reefers, Belts, Hats, Neckties, Caps and Coats, of Textile and Knitted Fabric for Men, Women, and Children; Bloomers, Petticoats, Tights, Pantalets, Brassières, Camisoles, Corsets, Corset-Covers, Bandeaux, Negligée, Sleeping-Jackets, Kimonos, Dressing-Gowns, Sacks, Blouses, Capes, Wraps, Vests, and Sport-Shirts of Knitted and Textile Fabrics for Women and Children; Mittens, Tams, Hoods, Booties, Shirts, and Bands of Knitted and Textile Fabrics for Infants; Hose-Supporters, Pajamas, Nightgowns, Bath-Robes, and Chemise of Textile Fabrics for Women and Children; Knitted Sweaters and Hose and Half-Hose of All Textures for Women and Children; Leggins and Gloves of Fabric, Leather, and Combinations Thereof, and Combinations of Rubber and Fabric for Women and Children; Slippers and Shoes of Knitted and Textile Fabrics and Combinations of Same and Leather or Rubber for Men, Women, and Children.
Claims use since 1888.

Ser. No. 146,684. (CLASS 39. CLOTHING.) LESTER BINO, Philadelphia, Pa. Filed Apr. 25, 1921.

Florine

Particular description of goods.—Knitted and Woven Bloomers, Knitted and Woven Vests, and Knitted and Woven Union-Suits.
Claims use since on or about Nov. 15, 1920.

Ser. No. 146,722. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAXALL CHEMICAL COMPANY, Dallas, Tex. Filed Apr. 25, 1921.

MAXALL

Particular description of goods.—Hair Tonics and Dressings, Toilet Water, and Bay-Rum.
Claims use since about Mar. 1, 1921.

Ser. No. 146,792. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARY BURNHAM, Chicago, Ill. Filed Apr. 27, 1921.

ROYAL

Particular description of goods.—Hair-Restorer.
Claims use since 1895.

Ser. No. 146,819. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) EQUIPMENT CORPORATION OF AMERICA, Wilmington, Del., and Chicago, Ill. Filed Apr. 27, 1921.



Particular description of goods.—Motor-Drawn Tractor-Trucks.
Claims use since Mar. 16, 1921.

Ser. No. 146,830. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KENTUCKY TIRE PUMP CO., Madisonville, Ky. Filed Apr. 27, 1921.



Particular description of goods.—Tire-Pumps, Grease-Guns, Automobile-Fans, Tool Kits, and Automobile-Jacks.
Claims use since May 1, 1920.

Ser. No. 146,894. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Apr. 28, 1921.

FEDERAL

Particular description of goods.—Vehicle-Tires, Reliners, Outside Tire-Sleeves, Repair-Patches, Packing, Rim-Filler Strips, Inner Tubes, Inside Tire-Sleeves, Repair Fabrics, Hose and Tubing, Belts and Belting, Brake-Lining, Valve-Bases, Flaps, and Transmission-Disks, All Made Wholly or Partly of Rubber.
Claims use since Jan. 1, 1920.

Ser. No. 146,921. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Apr. 28, 1921.

FEDERAL

Particular description of goods.—Vehicle-Tires, Reliners, Outside Tire-Sleeves, Repair-Patches, Packing, Rim-Filler Strips, Inner Tubes, Inside Tire-Sleeves, Repair Fabrics, Hose and Tubing, Belts and Belting, Brake-Lining, Valve-Bases, Flaps, and Transmission-Disks, All Made Wholly or Partly of Rubber.
Claims use since Jan. 1, 1920.

Ser. No. 146,896. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Apr. 28, 1921.

FEDERAL

Particular description of goods.—Vehicle-Tires, Reliners, Outside Tire-Sleeves, Repair-Patches, Packing, Rim-Filler Strips, Inner Tubes, Inside Tire-Sleeves, Repair Fabrics, Hose and Tubing, Belts and Belting, Brake-Lining, Valve-Bases, Flaps, and Transmission-Disks, All Made Wholly or Partly of Rubber.
Claims use since Jan. 1, 1920.

Ser. No. 146,921. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE MENSON MANUFACTURING COMPANY, Chicago, Ill. Filed Apr. 28, 1921.

SIPS

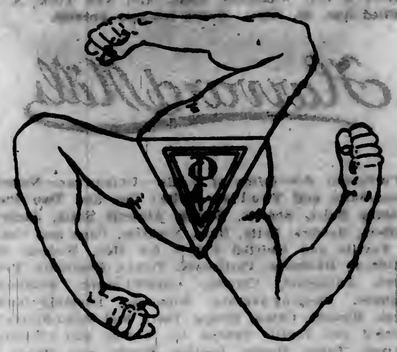
Particular description of goods.—Paper Straws.
Claims use since about Apr. 20, 1920.

Ser. No. 147,295. (CLASS 32. FURNITURE AND UPHOLSTERY.) JAMESTOWN METAL DESK COMPANY, Jamestown, N. Y. Filed May 4, 1921.



No claim being made to the words "Jamestown, New York," and "Firm as Gibraltar" apart from the mark as shown in the drawing, and the representation of the desk is also disclaimed.
Particular description of goods.—Sheet-Metal Desks and Office-Tables.
Claims use since Mar. 9, 1921, upon desks, and Mar. 7, 1921, upon office-tables.

Ser. No. 147,256. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PRESTON CHEMICAL CO. INC., Brooklyn, N. Y. Filed May 5, 1921.



Particular description of goods.—A Pharmaceutical Preparation Known as Muscletone, Which Preparation is Used for Allaying Pain and Inflammation Arising from Swollen Glands and Joints, Rheumatism, Sprains, Bruises, Tired, Sore, and Painful Feet, Nerves, and Muscles; Also Used as a Medicated Bath for Convalescents; Also Used as a Dentifrice, Mouth-Wash, and Gargle.
Claims use since 1916.

Ser. No. 147,458. (CLASS 39. CLOTHING.) PARAMOUNT KNITTING COMPANY, Chicago, Ill. Filed May 9, 1921.

PARAQUEENS

Consisting of the word "Paraqueens."
Particular description of goods.—Hosiery.
Claims use since Feb. 25, 1919.

Ser. No. 147,461. (CLASS 39. CLOTHING.) PARAMOUNT KNITTING COMPANY, Chicago, Ill. Filed May 9, 1921.

ENSIGN

Particular description of goods.—Hosiery.
Claims use since Dec. 28, 1919.

Ser. No. 147,473. (CLASS 39. CLOTHING.) S. SCHILLER, New York, N. Y. Filed May 9, 1921.

Symphony

Particular description of goods.—Women's Hats, Men's Hats, and Children's Hats.
Claims use since May 1, 1921.

Ser. No. 147,607. (CLASS 15. OILS AND GREASES.) EDCO OIL CO., REGISTERED, Philadelphia, Pa. Filed May 12, 1921.

EDCO LUBRICANTS OF QUALITY OILS

No claim is made to the words "Lubricants of Quality" and "Oils" apart from the mark shown on the drawing.
Particular description of goods.—Lubricating Oils and Greases.
Claims use since May 1, 1921.

Ser. No. 147,609. (CLASS 23. CONSTRUCTION MATERIALS.) FEDERAL CEDAR MILL CO. LTD., Vancouver, British Columbia, Canada. Filed May 12, 1921.



Disclaimer is hereby made to the words "Brand" and "Vancouver, B. C."
Particular description of goods.—Lumber and Shingles.
Claims use since Nov. 2, 1920.

Ser. No. 147,626. (CLASS 39. CLOTHING.) LANSDALE KNITTING COMPANY, Lansdale, Pa. Filed May 22, 1921.

BAIRNIE



HOSIERY

No claim being made to the word "Hosiery" apart from the mark shown.
Particular description of goods.—Hosiery.
Claims use since Mar. 26, 1921.

Ser. No. 147,683. (CLASS 39. CLOTHING.) QUINTO, COHEN & LEVIN, INC., New York, N. Y. Filed May 13, 1921.

Stylish Clothes
"Man's Best Friend"



No claim being made to the word "Clothes" apart from the mark shown in the drawing.
Particular description of goods.—Men's and Boys' Outer Clothing—Namely, Men's and Boys' Overcoats, Raincoats, Suits, Vests, Trousers, and Coats.
Claims use since May 9, 1921.

Ser. No. 147,688. (CLASS 39. CLOTHING.) SAMUELS & HILDER BROS., New York, N. Y. Filed May 13, 1921.

PEGGY

Particular description of goods.—Women's and Children's Elastic Garters.
Claims use since Mar. 1, 1921.

Ser. No. 147,702. (CLASS 39. CLOTHING.) BROCKTON RAND COMPANY, Montello, Brockton, Mass. Filed May 14, 1921.

SNOWFLAKE

Particular description of goods.—Welting.
Claims use since Mar. 15, 1921.

Ser. No. 147,738. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIÉTÉ CHIMIQUE DES USINES DU RHONE, Paris, France. Filed May 14, 1921.

RHODOL

Particular description of goods.—Photographic Developers.
Claims use since 1909.

Ser. No. 147,742. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETEIT VOOR CHEMISCHE INDUSTRIE "KATWIJK," Katwijk aan Zee, Netherlands. Filed May 14, 1921.

DIUGRANDINE

Particular description of goods.—Theobromin Sodium Acetate.
Claims use since July, 1920.

Ser. No. 147,791. (CLASS 38. PRINTS AND PUBLICATIONS.) METROPOLITAN CHURCH ASSOCIATION, Chicago, Ill. Filed May 16, 1921.

Burning Bush

Particular description of goods.—Weekly Publications.
Claims use since May 29, 1902.

Ser. No. 147,816. (CLASS 39. CLOTHING.) BROWN SHOE COMPANY, INC., St. Louis, Mo. Filed May 17, 1921.



The picture in the drawing being fanciful.
Particular description of goods.—Shoes for Women, Made of Leather.
Claims use since Feb. 25, 1921.

Ser. No. 148,004. (CLASS 47. WINES.) WERLE ET COMPAGNIE, Reims, France. Filed May 20, 1921. Under ten-year proviso.



Particular description of goods.—Champagne-Wines.
Claims use since 1850.

Ser. No. 148,006. (CLASS 47. WINES.) WERLE ET COMPAGNIE, Reims, France. Filed May 20, 1921. Under ten-year proviso.



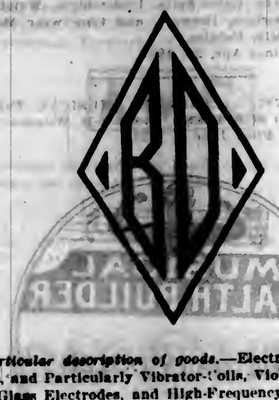
No claim being made to the representation of a comet and tail apart from the mark as shown.
Particular description of goods.—Champagne-Wines.
Claims use since 1850.

Ser. No. 148,011. (CLASS 39. CLOTHING.) ALLANDALE KNITTING MILLS, INC., New York, N. Y. Filed May 21, 1921.

"Wind-on"

Particular description of goods.—Knitted Sweaters and Scarfs.
Claims use since on or about Jan. 4, 1921.

Ser. No. 148,056. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) BLEADON-DUN COMPANY, Chicago, Ill. Filed May 23, 1921.



Particular description of goods.—Electromedical Apparatus, and Particularly Vibrator-Coils, Violet-Ray Apparatus, Glass Electrodes, and High-Frequency Apparatus.
Claims use since July 1, 1915.

Ser. No. 148,091. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALICE E. RENAUD, New York, N. Y. Filed May 23, 1921.



No claim being made to the words "Hair Grower" apart from the mark as shown.
Particular description of goods.—Hair-tonic.
Claims use since Nov. 1, 1920.

Ser. No. 148,228. (CLASS 12. CONSTRUCTION MATERIALS.) IRWIN PAPER COMPANY, Quincy, Ill. Filed May 25, 1921.

SCOUTCRAFT

Particular description of goods.—Asphalt Roofing, Sheathing-Paper, Felt for Deadening and Insulating, and Asphalt Shingles.
Claims use since Jan. 1, 1921.

Ser. No. 148,284. (CLASS 39. CLOTHING.) KOPS BROS., New York, N. Y. Filed May 26, 1921.

Sling

Particular description of goods.—Corsets, Brassières, Corset-Covers, and Waists.
Claims use since May 1, 1921.

Ser. No. 148,324. (CLASS 39. CLOTHING.) ARMIN A. FRANKEL, Philadelphia, Pa. Filed May 27, 1921.

FRANKLYNETTE

Particular description of goods.—Ladies' Three-Piece Suits, Consisting of a Skirt, Coat, and Breeches.
Claims use since Apr. 22, 1921.

Ser. No. 148,350. (CLASS 39. CLOTHING.) ROSENBERG & CHATILLON, New York, N. Y. Filed May 27, 1921.

Orange Blossom

Particular description of goods.—Ladies' Silk Underwear Made of Knitted and Textile Fabrics.
Claims use since February, 1921.

Ser. No. 148,200. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAX KERBEL, Brooklyn, N. Y. Filed May 28, 1921.

MAXAY

Particular description of goods.—Tooth-Paste.
Claims use since Jan. 2, 1921.

Ser. No. 148,446. (CLASS 39. CLOTHING.) LYNN SHOE AND SLIPPER CO., Worcester, Mass. Filed May 31, 1921.

LINSURE

Particular description of goods.—Felt Shoes and Slippers.
Claims use since May 5, 1921.

Ser. No. 148,524. (CLASS 28. MEASURING AND SCIENTIFIC APPLIANCES.) AFFILIATED DISTRIBUTORS INC., New York, N. Y. Filed June 2, 1921.

AFFILIATED DISTRIBUTORS

Particular description of goods.—Motion-Picture Films, and Films Used for Stereopticon Projections.
Claims use since May 21, 1921.

Ser. No. 148,537. (CLASS 39. CLOTHING.) JOSEPH ECKSTEIN, INC., New York, N. Y. Filed June 2, 1921.

The House True-blue

Consisting of the words "The House True-blue."
Particular description of goods.—Ladies', Misses', and Children's Suits Consisting of Skirts and Jackets, Coats, Waists, Dresses, and Skirts.
Claims use since Apr. 1, 1921.

Ser. No. 148,585. (CLASS 39. CLOTHING.) Daniels & Bruce, Chicago, Ill. Filed June 3, 1921.

Particular description of goods.—Men's Hosiery, Dress and Work Shirts, Union-Suits, Undershirts, Waist-Belts, and Hose-Supporters, Drawers, and Underwear Made of Knitted or Textile Fabrics.
Claims use since Apr. 25, 1918.

Ser. No. 148,781. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) ROBERT B. WHEELAN, New York, N. Y. Filed June 6, 1921.

MUSICAL HEALTH BUILDER
THE "DAILY DOZEN"

Particular description of goods.—Phonograph-Record Disks.
Claims use since about Apr. 5, 1921.

Ser. No. 148,906. (CLASS 12. VEHICLES, NOT INCLUDING ENGINES.) BADGER MANUFACTURING CORPORATION, Milwaukee, Wis. Filed June 11, 1921.

BADGER NECESSORIES

Consists of the words "Badger Necessories."
Particular description of goods.—Bumpers, Tire-Carriers, Creepers, Steering-Wheels, Foot and Robe Rails, and Luggage-Carriers.
Claims use since about July, 1919.

Ser. No. 148,931. (CLASS 21. HOROLOGICAL INSTRUMENTS.) JOSEPH DAVIES, New York, N. Y. Filed June 11, 1921.

Particular description of goods.—Watches.
Claims use since Sept. 10, 1917.

Ser. No. 149,180. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) FORSBACKA JERNVERKS AKTIEBOLAG, Forsbacka, Sweden. Filed June 15, 1921.

A.M.C.

Particular description of goods.—Iron and Steel.
Claims use since Apr. 12, 1915.

Ser. No. 149,197. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CARROLL H. MONTAGUE, Richmond, Va. Filed June 15, 1921.

SAFCRITE

Particular description of goods.—Automobile Electric Lamps.
Claims use since June 14, 1921.

Ser. No. 149,211. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) J. HARVE BAKER, Portales, N. Mex. Filed June 16, 1921.

BAKER'S LEATHER OIL

The words "Leather Oil" appearing in the drawing are disclaimed apart from the mark shown.
Particular description of goods.—Oils for Softening and Preserving All Kinds of Leather.
Claims use since Nov. 6, 1919.

Ser. No. 149,251. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT V. TURNER, Montgomery, Ala. Filed June 16, 1921.

R.V. TURNER'S

Particular description of goods.—Salve for Colds, Catarrh, Croup, Rheumatism, Tonsilitis, Pleurisy, Sore Throat, Piles, Eczema, Tetter, Cuts, Sores, Sprains, Burns, Headache, Earache, Toothache, Corns, and Relief of Pain.
Claims use since July 1, 1920.

Ser. No. 149,252. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TRAGUE AND FILMER, Portland, Oreg. Filed June 16, 1921.

TEAG-MOU

Particular description of goods.—Hair-Tonics.
Claims use since May 14, 1920.

Ser. No. 149,299. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARVIN S. SMALL, Brooklyn, N. Y. Filed June 17, 1921.

Jesjen

Particular description of goods.—An Indigestion-Corrective.
Claims use since May 18, 1921.

Ser. No. 149,320. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CELITE PRODUCTS COMPANY, Los Angeles, Calif., and New York, N. Y. Filed June 18, 1921.

FILTRITE

Particular description of goods.—A Material for Bleaching and Decolorizing.
Claims use since May 6, 1921.

Ser. No. 149,403. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WALTER M. INGRAM, Baltimore, Md. Filed June 20, 1921.

"RELIANCE"

Particular description of goods.—Air-Pumps.
Claims use since Dec. 10, 1919.

Ser. No. 149,426. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AMERICAN SAFETY RAZOR CORPORATION, New York and Brooklyn, N. Y. Filed June 21, 1921.



No claim being made to the word "Eversharp" apart from the mark shown in the drawing.

Particular description of goods.—Razors, Razor-Blades, Safety-Razors, and Safety-Razor Blades.

Claims use since June 2, 1920.

Ser. No. 149,465. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MCDOUGALL & YALDING LTD., Yalding, Kent, England. Filed June 21, 1921.

DERRAX

Particular description of goods.—Fungicides, Insecticides, Vermicides, and Similar Compositions for Destroying Life Deleterious to Plants, Trees, Fruits, &c.

Claims use since May 11, 1921.

Ser. No. 149,467. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MCDOUGALL & YALDING LTD., Yalding, Kent, England. Filed June 21, 1921.

DERRI

Particular description of goods.—Fungicides, Insecticides, Vermicides, and Similar Compositions for Destroying Life Deleterious to Plants, Trees, Fruits, &c.

Claims use since May 11, 1921.

Ser. No. 149,540. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CLAUSEN ZOLLER COMPANY, St. Louis, Mo. Filed June 23, 1921.

KOLOIDAL IRON KI

No claim is made to the exclusive use of the word "Iron" apart from the mark shown.

Particular description of goods.—A Blood and Nerve Tonic in Tablet Form.

Claims use since about Jan. 1, 1921.

Ser. No. 149,574. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ALBERT N. ANTHES, Fort Madison, Iowa. Filed June 24, 1921.



Particular description of goods.—Shock-Absorbers for Vehicles.

Claims use since about April, 1921.

Ser. No. 149,661. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) S. YOUEL SONS, Hartford, Conn. Filed June 25, 1921.

ELIZABETH PARK

Particular description of goods.—All Kinds of Canned Fruits and Vegetables, Canned Fish, and Shell-Fish.

Claims use since on or about Mar. 6, 1916.

Ser. No. 149,693. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE EMBALMERS' SUPPLY CO., West Port, Conn. Filed June 27, 1921.

DASHOUT

Particular description of goods.—Hand Fire-Extinguisher.

Claims use since May 28, 1921.

Ser. No. 149,886. (CLASS 12. CONSTRUCTION MATERIALS.) BROOKLYN FIRE BRICK WORKS, INC., Brooklyn, N. Y. Filed July 1, 1921.

FIRESEAL

Particular description of goods.—Building-Cement.

Claims use since Jan. 1, 1921.

Ser. No. 149,891. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLIMAX MOLYBDENUM COMPANY, Wilmington, Del., and New York, N. Y. Filed July 1, 1921.



No claim is made to the word "Molybdenum" or the words "The Commercial Alloy" apart from the mark shown in the drawing.

Particular description of goods.—Calcium Molybdate.

Claims use since Jan. 15, 1920.

Ser. No. 150,013. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE INDIANA PISTON RING COMPANY, Hagerstown, Ind. Filed July 5, 1921.



Particular description of goods.—Engine Piston-Rings.

Claims use since Mar. 29, 1918.

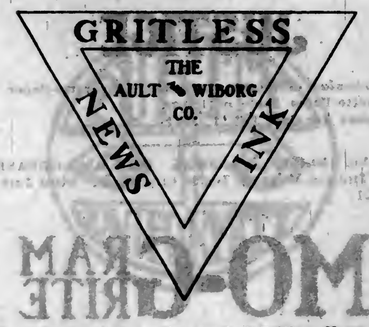
Ser. No. 150,114. (CLASS 38. PRINTS AND PUBLICATIONS.) JAMES H. RHODES & COMPANY, Chicago, Ill. Filed July 7, 1921.

RHODES' COLOSSUS

Particular description of goods.—House Organ Published Every Two Months.

Claims use since September, 1912.

Ser. No. 150,123. (CLASS 11. INKS AND INKING MATERIALS.) THE AULT & WIBORG COMPANY OF N. Y., New York, N. Y. Filed July 8, 1921.



No claim is made to the words "Gritless News Ink" apart from the mark shown in the drawing.

Particular description of goods.—A Gritless News-Ink.

Claims use since July 1, 1921.

Ser. No. 150,259. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) N. R. ALLEN'S SONS COMPANY, Kenosha, Wis. Filed July 12, 1921.

SUPERBA

Particular description of goods.—Leather.

Claims use since November, 1918.

Ser. No. 150,301. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) AMERICAN STEEL EXPORT COMPANY, New York, N. Y. Filed July 13, 1921.



Particular description of goods.—Electric Batteries.

Claims use since Feb. 15, 1920.

Ser. No. 150,419. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) WILKINSON BROS. & CO. INC., New York, N. Y. Filed July 15, 1921.

KOSAK

Particular description of goods.—Cigarette-Papers and Cigarette-Tubes Made of Paper.

Claims use since Feb. 1, 1921.

Ser. No. 150,455. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE KNAPP BROS. & CO. INC., New York, N. Y. Filed July 15, 1921.

JUSTICE

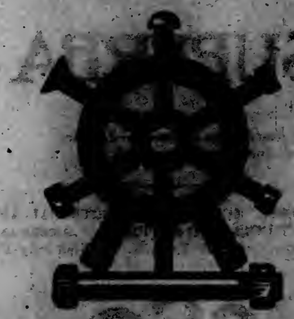
Particular description of goods.—Cigarette Paper and Cigarette Tubes Made of Paper.
Claims use since Feb. 1, 1921.

Ser. No. 150,457. (CLASS 13. OILS AND GREASES.) J. THOMAS MONROW, Dodge City, Kans. Filed July 16, 1921.

MO-GRAM

Particular description of goods.—Gasoline, Kerosene, and Distillates, Lubricating Oils and Greases.
Claims use since June 1, 1921.

Ser. No. 150,492. (CLASS 13. HARDWARE AND PLUMBERS' AND STEAM-FITTERS' SUPPLIES.) WHEELING MACHINE PRODUCTS COMPANY, Wheeling, W. Va. Filed July 16, 1921.



Particular description of goods.—Screws and Bolts.
Claims use since Feb. 18, 1921.

Ser. No. 150,498. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) AJAX ELECTRIC SPECIALTY COMPANY, St. Louis, Mo. Filed July 18, 1921.



Particular description of goods.—Electrical Plugs, Receptacles, and Sockets.
Claims use since August, 1918.

Ser. No. 150,507. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE ADAMS Bro. COMPANY, New York, N. Y. Filed July 18, 1921.

THE [illegible]AGE

Particular description of goods.—[illegible] Christmas Trees.
Claims use since May 27, 1921.

Ser. No. 150,561. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MA-DA-HO Sales Co., Cincinnati, Ohio. Filed July 18, 1921.

Ma-Da-Ho

Particular description of goods.—Vanishing Creams.
Claims use since Feb. 26, 1921.

Ser. No. 150,570. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RAY-DI-CO., Chicago, Ill. Filed July 18, 1921.

RAY-DI-CO.

Particular description of goods.—Electric Motors, Generators, and Motor-Generator Units.
Claims use since Oct. 20, 1920.

Ser. No. 150,576. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) WILLIAM G. WILLIAMS, Elgin, Ill. Filed July 19, 1921.

ZENITH

Particular description of goods.—Adjustable Tables for Use by Doctors, Surgeons, Chiropractics, and Osteopaths and Parts of Such Tables.
Claims use since May, 1916.

Ser. No. 150,645. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) JOHN WRIGHT & EAGLE RANGE, LTD., Birmingham, England. Filed July 19, 1921.

THERMO-X

Particular description of goods.—Radiants or Refractory Heating Elements for Gas-Fires in Which Fire-Clay is the Predominating Material.
Claims use since 1915.

Ser. No. 150,646. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) JOHN WRIGHT & EAGLE RANGE, LTD., Birmingham, England. Filed July 19, 1921.

THERMO-XX

Particular description of goods.—Radiants or Refractory Heating Elements for Gas-Fires in Which Fire-Clay is the Predominating Material.
Claims use since 1919.

Ser. No. 150,649. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AUSTILANE COMPANY, Philadelphia, Pa. Filed July 20, 1921.



No claim is made to the words "Foot Comfort" apart from the mark as shown.
Particular description of goods.—A Medicinal Foot-Powder.
Claims use since on or about July 8, 1921.

Ser. No. 150,662. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CATHLEEN DEVLIN, Providence, R. I. Filed July 20, 1921.



The representation of the stove and the words "Stove Polish" not being claimed apart from the mark shown.
Particular description of goods.—Stove-Polish.
Claims use since June 16, 1921.

Ser. No. 150,720. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BLANDING & BLANDING, INC., Providence, R. I. Filed July 21, 1921.



No claim being made to the exclusive use of the words "Purity" and "Uniformity" apart from the mark shown in the drawing.
Particular description of goods.—A Remedy Valuable in the Treatment of Chlorosis, Anemia, Scrofula, and All Impoverished Conditions of the Blood and a Tonic and Restorative in General Debility and Convalescence from Wasting Diseases; a Liquid Petrolatum Combined with Antiseptic and Germicidal Ingredients for Use in Cases of Constipation, a Remedy Indicated in Pulmonary; an Alkaline Antiseptic Powder Useful for Conditions of the Mucous Membrane, Canker, Tonsilitis, Nasal Catarrh, Rhinitis, and Other Ailments of a Like Nature; a Compound for the Treatment of Dyspepsia, Intestinal Indigestion, and Cholera Morbus.
Claims use since Jan. 1, 1914.

Ser. No. 150,766. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE PORCELAIN INSULATOR CORPORATION, Lima, N. Y. Filed July 21, 1921.

"PINCO"

Particular description of goods.—Electric Insulators Made of Porcelain.
Claims use since about June 21, 1921.

Ser. No. 150,769. (CLASS 12. CONSTRUCTION MATERIALS.) RUTLAND FIRE CLAY CO., Rutland, Vt. Filed July 21, 1921. Under ten-year proviso.

RUTLAND

Particular description of goods.—Plastic Stove-Lining.
Claims use since about Apr. 1, 1883.

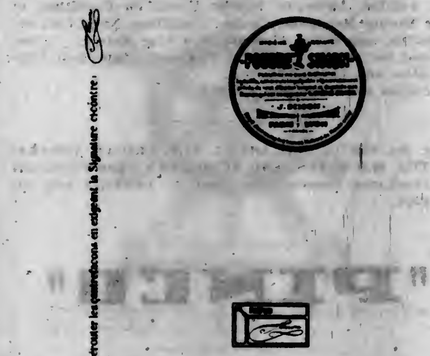
Ser. No. 150,771. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. SIMON & CIE., Paris and Lyon, France. Filed July 21, 1921.



All the wording except the several occurrences of the word "Simon" being disclaimed apart from the mark shown.

Particular description of goods.—Face-Cream.
Claims use since 1876.

Ser. No. 150,773. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. SIMON & CIE., Paris and Lyon, France. Filed July 21, 1921.



All the wording except the several occurrences of the word "Simon" being disclaimed apart from the mark shown.

Particular description of goods.—Perfumes, Face-Powders, and Toilet Powders.
Claims use since 1876.

Ser. No. 150,784. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE SANIKLENE CHEMICAL CO., Akron, Ohio. Filed July 21, 1921.

SANIKLENE

Particular description of goods.—Cleaning Preparation with Incidental Water-Softening Properties.
Claims use since Apr. 17, 1921.

Ser. No. 150,793. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES. O. W. WUERTZ CO., New York, N. Y. Filed July 21, 1921. Under ten-year proviso.

Wuertz, New York.

Particular description of goods.—Grand and Upright Pianos, Player-Pianos, and Electrically-Operated Pianos.
Claims use since 1881.

Ser. No. 150,794. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) O. W. WUERTZ CO., New York, N. Y. Filed July 21, 1921. Under ten-year proviso.

O. W. Wuertz, New York.

Particular description of goods.—Grand and Upright Pianos, Player-Pianos, and Electrically-Operated Pianos.
Claims use since 1893.

Ser. No. 150,879. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE M. PROPP CO., New York, N. Y. Filed July 28, 1921.



No claim is made to the exclusive use of the words "Unit of Nine," "Decorative Electrical Sets," "Lamp Tester," and "Socket Plug" apart from the mark as shown on the drawing.

Particular description of goods.—Christmas-Tree Outfits Consisting of Electrically-Lighted Ornaments and Electrical Lighting Sets for Decorative Purposes.
Claims use since about January, 1920.

Ser. No. 151,052. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LAM-TE MANUFACTURING CO., Oklahoma, Okla. Filed July 28, 1921.

Lam-Te'

Particular description of goods.—Liquid Face-Powder.
Claims use since May 2, 1921.

Ser. No. 151,053. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE LIQUID CARBONIC COMPANY, Chicago, Ill. Filed July 28, 1921.

Liquid

Exclusive use of the word "Liquid" apart from the mark as shown being disclaimed.

Particular description of goods.—Carbonic-Acid Gas.
Claims use since June 25, 1916.

Ser. No. 151,061. (CLASS 12. CONSTRUCTION MATERIALS.) OETTINGER LUMBER COMPANY, Greensboro, N. C. Filed July 28, 1921.

Olumco

Particular description of goods.—Dressed Lumber, Shingles, Wall-Board, Mantels, Sash, Doors, Window-Blinds, and Moldings.
Claims use since April, 1917.

Ser. No. 151,140. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) C. BRUNO & SON, INC., New York, N. Y. Filed July 30, 1921.

STRADTONE

Particular description of goods.—Violin-Strings.
Claims use since July 6, 1921.

Ser. No. 151,226. (CLASS 32. FURNITURE AND UPHOLSTERY.) GEORGE M. SCHWARTZ, Columbus, Ohio. Filed Aug. 1, 1921.

SHOWELL

Particular description of goods.—Showcases and Store Furniture.
Claims use since about May, 1911.

Ser. No. 151,242. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) UNITED STATES RUBBER COMPANY, New York, N. Y. Filed Aug. 1, 1921.

'Royal Cord'

No claim is made to the exclusive use of the word "Cord" apart from the mark as shown.

Particular description of goods.—Insulated Wire Cable.
Claims use since May 23, 1921.

Ser. No. 151,271. (CLASS 12. CONSTRUCTION MATERIALS.) INSULITE CHEMICAL COMPANY, Aurora, Ill. Filed Aug. 2, 1921.

INSULITE

Particular description of goods.—Plastic Mastic Material Produced from Natural Asphaltic Material for Use in the Production of Flooring and Deck-Coverings.
Claims use since Dec. 31, 1909.

Ser. No. 151,327. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) JOHN MACAULAY, Detroit, Mich. Filed Aug. 3, 1921.

PERFECTION

No claim being made to the word "Perfection" apart from the mark as shown.

Particular description of goods.—Hop Barley Malt Sugar Syrup for the Manufacture of a Beverage.
Claims use since Jan. 15, 1919.

Ser. No. 151,408. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921.

GIBRALTAR

Particular description of goods.—Cotton-Batting.
Claims use since Feb. 25, 1902.

Ser. No. 151,410. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921.

CARDINAL

Particular description of goods.—Cotton-Batting.
Claims use since May 20, 1901.

Ser. No. 151,413. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921.

WIZARD

Particular description of goods.—Cotton-Batting.
Claims use since Feb. 27, 1911.

Ser. No. 151,414. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921.

WHITE OWL

Particular description of goods.—Cotton-Batting.
Claims use since Nov. 21, 1910.

Ser. No. 151,415. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921.

GREAT OWL

Particular description of goods.—Cotton-Batting.
Claims use since Nov. 21, 1910.

Ser. No. 151,420. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921.

OWL

Particular description of goods.—Cotton-Batting.
Claims use since Jan. 5, 1900.

Ser. No. 151,424. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921.

BIG OWL

Particular description of goods.—Cotton-Batting.
Claims use since June 7, 1909.

Ser. No. 151,425. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921.

SNOWY OWL

Particular description of goods.—Cotton-Batting.
Claims use since Dec. 6, 1909.

Ser. No. 151,466. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEW YORK CANNERS, INC., Rochester, N. Y. Filed Aug. 5, 1921.

EMPIRE

Particular description of goods.—Canned Fruits, Canned Vegetables, Fruit Jams, Fruit Preserves.
Claims use since 1879.

Ser. No. 151,467. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEW YORK CANNERS, INC., Rochester, N. Y. Filed Aug. 5, 1921.

REVERE

Particular description of goods.—Canned Fruits and Canned Vegetables, Fruit Jams.
Claims use since 1886.

Ser. No. 151,468. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEW YORK CANNERS, INC., Rochester, N. Y. Filed Aug. 5, 1921.

BLUE STAR

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since 1891.

Ser. No. 151,470. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEW YORK CANNERS, INC., Rochester, N. Y. Filed Aug. 5, 1921.

LILY of the VALLEY

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since 1891.

Ser. No. 151,474. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PACKARD CONFECTIONERY COMPANY, Boston, Mass. Filed Aug. 5, 1921.

BUCK-SHOT

Particular description of goods.—Candy.
Claims use since 1900.

Ser. No. 151,476. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) B. F. PERKINS & SON, INC., Holyoke, Mass. Filed Aug. 5, 1921.

MAN-COOLER

Particular description of goods.—Electric Motor-Driven Fans.
Claims use since July, 1918.

Ser. No. 151,482. (CLASS 12. CONSTRUCTION MATERIALS.) THE A. O. SMITH INTERNATIONAL WORKS, Chelsea, Mass. Filed Aug. 5, 1921.

SMITHCRETE COLUMN

No rights are claimed for the word "Column" apart from the mark shown in the drawing.
Particular description of goods.—Columns Consisting of a Shell of Metal or other Suitable Material Filled with Concrete or the Like.
Claims use since May 1, 1921.

Ser. No. 151,492. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SUNBEAM ELECTRIC MANUFACTURING CO., Evansville, Ind. Filed Aug. 5, 1921.

SUNBEAM

Particular description of goods.—Electric Batteries.
Claims use since Jan. 20, 1921.

Ser. No. 151,514. (CLASS 38. PRINTS AND PUBLICATIONS.) KNIGHTS OF COLUMBUS, New Haven, Conn. Filed Aug. 6, 1921.

COLUMBIA

Particular description of goods.—Monthly Magazines.
Claims use since July, 1921.

Ser. No. 151,560. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J. Filed Aug. 6, 1921.

ENCORE

Particular description of goods.—Olive-Oil.
Claims use since about Apr. 21, 1921.

Ser. No. 151,579. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J. Filed Aug. 9, 1921.

ALI BABA

Particular description of goods.—Dried Dates and Figs.
Claims use since about Apr. 21, 1921.

Ser. No. 151,580. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) INTERNATIONAL SALT CO. OF NEW YORK, New York, N. Y. Filed Aug. 9, 1921.

OK

Particular description of goods.—Salt.
Claims use since 1909.

Ser. No. 151,592. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PERFECTION PRODUCTS CO., New York, N. Y. Filed Aug. 9, 1921.

PERCO

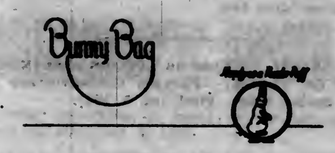
Particular description of goods.—Malt-Syrup for Food Purposes.
Claims use since June 1, 1921.

Ser. No. 151,621. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) HARRY PERUVIAN ARIZONA SEED GROWERS ASSOCIATION, Yuma, Ariz. Filed Aug. 10, 1921.



The vertical lining on the drawing denotes a red color.
Particular description of goods.—Alfalfa-Seed.
Claims use since on or about July 1, 1921.

Ser. No. 151,655. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BUNNY PRODUCTS COMPANY, Port Huron, Mich. Filed Aug. 11, 1921.



No claim is made to the use of the words "Bug" and "Handy as a Pocket Pal," except when considered with the other features of the mark.
Particular description of goods.—A Cleaning Composition for Cleaning Shoes, Gloves, or other Articles of Skin, Leather, or Textile Fabric, Liquid or Paste.
Claims use since Apr. 15, 1921.

Ser. No. 151,694. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) VERNA O. WATKINS, Atlanta, Ga. Filed Aug. 11, 1921.



The letters and characters are yellow, while the background is black.
Particular description of goods.—Educational-Game Board.
Claims use since April, 1920.

Ser. No. 151,752. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CRYSTAL SOAP & CHEMICAL CO., Philadelphia, Pa. Filed Aug. 13, 1921.



No claim being made to the words "Fish Oil Soap" apart from the mark shown in the drawing.
Particular description of goods.—Liquid Soap, Powdered Soap, Soapstone Soap, Soap Cakes, and Soap Flakes.
Claims use since June 9, 1921.

Ser. No. 151,824. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VAL. BLAIS JR. CANDY CO., Milwaukee, Wis. Filed Aug. 15, 1921.

Dreamy Dawn

Particular description of goods.—Candy.
Claims use since July, 1920.

Ser. No. 151,861. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARRY HOSKINS CANDY CO., San Francisco, Calif. Filed Aug. 16, 1921.

Calchu

Particular description of goods.—Candy.
Claims use since Aug. 1, 1921.

Ser. No. 151,836. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SIDNEY S. MARKS, Brooklyn, N. Y. Filed Aug. 16, 1921.

"DANDROX"

Particular description of goods.—A Remedy for Dandruff, in Unguent Form.
Claims use since January, 1920.

Ser. No. 151,847. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CARL V. POHLSON, Pawtucket, R. I. Filed Aug. 16, 1921.

Dairy Fuel

Particular description of goods.—Chemical Compounds for Coloring Flames.
Claims use since 1914.

Ser. No. 151,859. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ABERDEEN CANDIES, Boston, Mass. Filed Aug. 17, 1921.



Particular description of goods.—Candy.
Claims use since November, 1919.

Ser. No. 151,900. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) ABDOMINAL COUCH COMPANY, St. Louis, Mo. Filed Aug. 18, 1921.

Abdomno

Particular description of goods.—Exercises for Health Purposes.
Claims use since on or about July 11, 1921.

Ser. No. 151,910. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) DUPLEX TRANSMISSION BANDS, INC., San Francisco, Calif. Filed Aug. 18, 1921.

DUPLEX

Particular description of goods.—Automobile Transmission-Bands.
Claims use since 1919.

Ser. No. 151,959. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE LUTHER CHEMICAL COMPANY, Dayton, Ohio. Filed Aug. 19, 1921.

Spunoint

Particular description of goods.—An Ointment for Aches, Pains, Bruises, Boils, Chapped Skin, Cuts, Colds, Earache, Frost-Bites, Insect-Bites, Piles, Eruptions, Old Sores, Ivy Poisoning, Sprains, Sore Throat, and Sunburn.
Claims use since June 26, 1921.

Ser. No. 151,960. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROHM & HAAS COMPANY, Philadelphia, Pa. Filed Aug. 19, 1921.

INDOPON

Particular description of goods.—Chemicals Used as Discharge-Assistants in Printing on Indigo and Vat Dyes.
Claims use since on or about Jan. 27, 1921.

Ser. No. 151,990. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STEP-ON-IT MANUFACTURING COMPANY, Leicester, Mass. Filed Aug. 19, 1921.

STEP-ON-IT

Particular description of goods.—Composition Used to Remove Carbon from Cylinders and Gas-Passages of Internal-Combustion Engines.
Claims use since Aug. 6, 1921.

Ser. No. 151,962. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) O. BOTO SCHELLBERG, New York, N. Y. Filed Aug. 19, 1921.

"RHU-PHOS"

Combining of the word "Rhu-phos."
Particular description of goods.—Laxatives.
Claims use since February, 1921.

Ser. No. 151,963. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT DOLAN, Milwaukee, Wis. Filed Aug. 20, 1921.

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Particular description of goods.—Leak-Stopping Compound for Automobile Radiators.
Claims use since Apr. 1, 1921.

Ser. No. 151,966. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GROOVER-STEWART DRUG COMPANY, Jacksonville, Fla. Filed Aug. 20, 1921.

INSURANCE SLEEP

Particular description of goods.—Insecticides for Flies, Mosquitoes, and other Insect Pests.
Claims use since Jan. 1, 1916.

Ser. No. 151,994. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JORDAN MARSH COMPANY, Boston, Mass. Filed Aug. 20, 1921.

"Avoset"

Particular description of goods.—Ink-Eradicator.
Claims use since June 20, 1920.

Ser. No. 152,020. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HENRY J. MCELROY, Los Angeles, Calif. Filed Aug. 22, 1921.

MEPHISTO

Particular description of goods.—Powder for Cleaning Drain-Pipes.
Claims use since Aug. 1, 1918.

Ser. No. 152,025. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) P. H. MURPHY COMPANY, New Kensington, Pa. Filed Aug. 22, 1921.

STANRACO

Particular description of goods.—Railroad-Car Metal Roofs and Parts of Such Roofs—Namely, Fabricated Roof-Sheets, Anchors, Flashings, Seam-Caps, Ridge-Caps, Center Caps, Roof-Castings, and Running-Board Saddles.
Claims use since July 25, 1921.

Ser. No. 152,026. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) P. H. MURPHY COMPANY, New Kensington, Pa. Filed Aug. 22, 1921.

CUPIFER

Particular description of goods.—Railroad-Car Metal Roofs and Parts of Such Roofs—Namely, Fabricated Roof-Sheets, Anchors, Flashings, Seam-Caps, Ridge-Caps, Center Caps, Roof-Castings, and Running-Board Saddles.
Claims use since July 25, 1921.

Ser. No. 152,030. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VAWTER AND VAWTER, Los Angeles, Calif. Filed Aug. 22, 1921.

Seboron

Particular description of goods.—A Pharmaceutical Preparation Used in the Treatment of Rheumatism, Acute and Chronic; Lumbago, Sciatica, Neuritis, Gout, Kidney and Bladder Troubles, and Uric-Acid Conditions.
Claims use since May 1, 1921.

Ser. No. 152,031. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BENZOLE ALIZARINE COMPANY LIMITED, London, England. Filed Aug. 23, 1921. Under ten-year proviso.

FLOREANT

Particular description of goods.—Artificial Alizarin Used in the Dyeing and Printing of Textile Fabrics.
Claims use since February, 1886.

Ser. No. 152,090. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN POLITIS, Chicago, Ill. Filed Aug. 26, 1921.

NO-INJO

Particular description of goods.—A Preparation for the Alleviation of Skin-Poisoning, Inflamed and Putrefied Flesh, Open Wounds and Sores of All Description.
Claims use since Aug. 5, 1920.

Ser. No. 152,113. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ACE MANUFACTURING COMPANY Portland, Me. Filed Aug. 24, 1921.

ACE

Particular description of goods.—A Porcelain-Cleaning Compound.
Claims use since June 1, 1921.

Ser. No. 152,114. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE AMERICAN OIL COMPANY, Providence, R. I. Filed Aug. 24, 1921.



Particular description of goods.—Oil Used in the Treatment of Woolen Fabrics.
Claims use since Dec. 15, 1868.

Ser. No. 152,115. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AGOL CHEMICAL COMPANY, Washington, D. C. Filed Aug. 24, 1921.

CHLOR-AGOL

Particular description of goods.—Mouth-Wash, Gargle, or Nasal and Throat Spray.
Claims use since May 7, 1921.

Ser. No. 152,116. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AGOL CHEMICAL COMPANY, Washington, D. C. Filed Aug. 24, 1921.

ANTOL

Particular description of goods.—A Headache and Neuralgia Remedy.
Claims use since July 11, 1921.

Ser. No. 152,121. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) R. R. KINSEY, Atlanta, Ga. Filed Aug. 24, 1921.

KANSO-REX

Particular description of goods.—Antiseptic Healing-Powder.
Claims use since Mar. 2, 1921.

Ser. No. 152,122. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD J. MOORE SONS, INC., Long Island City, N. Y. Filed Aug. 24, 1921.

Sorbivol

Particular description of goods.—Antiseptic Ointment for Itching and Inflamed Piles, Scalds, Chafing, and Irritations of the Skin.
Claims use since Aug. 1, 1921.

Ser. No. 152,123. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) MANHATTAN BRIAR PIPE COMPANY, New York and Brooklyn, N. Y. Filed Aug. 24, 1921.



Particular description of goods.—Pipes for Smoking.
Claims use since Aug. 22, 1921.

Ser. No. 152,124. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAVEM ECONOMY PRODUCTS CO., Boston and East Boston, Mass. Filed Aug. 24, 1921.

SAVEM

Particular description of goods.—Compound for the Treatment of Fabrics After Washing.
Claims use since July 15, 1921.

Ser. No. 152,145. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLARK W. UPP, Oberlin, Ohio. Filed Aug. 24, 1921.



Particular description of goods.—Hair-Eradicator.
Claims use since Jan. 2, 1921.

Ser. No. 152,153. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ATLAS CANDY MFG. CO. INC., Lynchburg, Va. Filed Aug. 25, 1921.

Wishmore

Particular description of goods.—Chocolates and Candies.
Claims use since July 1, 1921.

Ser. No. 152,166. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ANDREW JERGENS COMPANY, Cincinnati, Ohio. Filed Aug. 25, 1921.

BATEEK

Particular description of goods.—Face-Powder, Talcum Powder, and Perfume.
Claims use since Aug. 12, 1921.

Ser. No. 152,171. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY KAY, New York, N. Y. Filed Aug. 25, 1921.

DR. KAY'S TOP-NOTCH

Particular description of goods.—Mouth-Wash.
Claims use since June 1, 1921.

Ser. No. 152,172. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY KAY, New York, N. Y. Filed Aug. 25, 1921.

DR. KAY'S CELEBRATED

Particular description of goods.—A Mouth-Wash.
Claims use since June 1, 1921.

Ser. No. 152,175. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES LYLE, Memphis, Tenn. Filed Aug. 25, 1921.



Particular description of goods.—Kidney and Liver Medicine.
Claims use since Sept. 26, 1918.

Ser. No. 152,226. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WYE-COE CHEMICAL COMPANY, Denver, Colo. Filed Aug. 25, 1921.



Particular description of goods.—A Medicine for the Treatment of Pyorrhea.
Claims use since July 29, 1921.

Ser. No. 152,227. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LEO M. ABRAHAMS, New York, N. Y. Filed Aug. 27, 1921.



Particular description of goods.—Condensed Milk.
Claims use since June [illegible], 1920.

Ser. No. 152,253. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EARL N. GREENBERG, [illegible]. Filed Aug. 27, 1921.



Particular description of goods.—A Skin-Lotion.
Claims use since Apr. 15, 1919.

Ser. No. 152,255. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SANTA CLARA VALLEY CANNING Co., San Jose, Calif. Filed Aug. 27, 1921.

REDWOOD

Particular description of goods.—Pickles, Vinegar, Fruit Jellies, Fruit Preserves, Mustard, Catsup, Chilli Sauce, Molasses, Fruit Butter, and Fruit Jam.
Claims use since Aug. 24, 1920.

Ser. No. 152,282. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SANTA CLARA VALLEY CANNING Co., San Jose, Calif. Filed Aug. 27, 1921.

Integrity

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since Dec. 25, 1920.

Ser. No. 152,285. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) [illegible] WHOLESALE GROCERY COMPANY, Maryville, Mo. Filed Aug. 27, 1921.

NICKEL PLATE

Particular description of goods.—Coffee.
Claims use since June 29, 1921.

Ser. No. 152,287. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOS. MIDDLESEX, JR., INC., Boston, Mass. Filed Aug. 29, 1921.



Particular description of goods.—Marshmallow Topping.
Claims use since May 18, 1921.

Ser. No. 152,347. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ROSES LABORATORIES, Philadelphia, Pa. Filed Aug. 29, 1921.

CHECKERS

Particular description of goods.—A Remedy for Amenorrhea, Leucorrhea, Dysmenorrhea, Reducing Inflammation, Absorbing Discharges.
Claims use since about June 4, 1921.

Ser. No. 152,358. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALPINE CHOCOLATES COMPANY, Boston, Mass. Filed Aug. 30, 1921.

Ye Token

The words "Ye Token."
Particular description of goods.—Candy.
Claims use since about June 4, 1921.

Ser. No. 152,418. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BRADFORD R. CAMP, San Francisco, Calif. Filed Aug. 31, 1921.

Crumples

Consisting of the word "Crumples."
Particular description of goods.—Candy.
Claims use since Dec. 1, 1920.

Ser. No. 152,460. (CLASS 32. FURNITURE AND UPHOLSTERY.) McROSKEY & Co., San Francisco, Calif. Filed Aug. 31, 1921.



No claim is made to the words "Sleep on a McRoskey" or the representation of a mattress apart from the mark shown.
Particular description of goods.—Mattresses.
Claims use since 1907.

Ser. No. 152,499. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE NEW YORK RECORDING LABORATORIES, Port Washington, Wis. Filed Aug. 31, 1921.

Famous

Particular description of goods.—Phonographs and Phonograph-Records, Record-Albums, Mechanical Phonograph Motors, Reproducers, and Needles.
Claims use since Nov. 16, 1920.

Ser. No. 152,518. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) QUAKER CITY Morocco Co., Philadelphia, Pa. Filed Sept. 2, 1921. Under ten-year proviso.



Particular description of goods.—Kid and Morocco Leather.
Claims use since Aug. 15, 1891.

Ser. No. 152,764. (CLASS 39. TOILET AND LAUNDRY ARTICLES.) The Allen-Hoffman Co., Mount Vernon, N. Y. Filed Sept. 9, 1921.

The Garment Weekly

Consisting of the words "The Garment Weekly."
Particular description of goods.—A Weekly Publication.
Claims use since May 15, 1917.

Ser. No. 152,870. (CLASS 42. MALT BEVERAGES, EXTRACTS AND LIQUORS.) Warren L. Tennis, Tacoma, Wash. Filed Sept. 12, 1921.

APEX MALT SYRUP

No claim being made to the words "Malt Syrup" apart from the mark shown.
Particular description of goods.—Malt-Syrup.
Claims use since Sept. 20, 1920.

Ser. No. 152,903. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Sanstag & Hilser Bros., Inc., New York, N. Y. Filed Sept. 13, 1921.

Madame Pompadour

Particular description of goods.—Hair-Nets.
Claims use since Sept. 1, 1921.

Ser. No. [illegible] (CLASS 39. TOILET AND LAUNDRY PREPARATIONS.) [illegible], Mount Vernon, N. Y. Filed Sept. 16, 1921.

Year Round

Particular description of goods.—Motor-Trucks.
Claims use since June 7, 1921.

Ser. No. 152,956. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) Colgate & Company, Jersey City, N. J. Filed Sept. 16, 1921.

Milady's Delight

Particular description of goods.—Soap.
Claims use since Sept. 7, 1921.

Ser. No. 152,958. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) George A. Luce, Winthrop, Mass. Filed Sept. 16, 1921.

BOSTON LIGHT

Particular description of goods.—Metal-Polish.
Claims use since Sept. 1, 1921.

Ser. No. 153,118. (CLASS 28. PRINTS AND PUBLICATIONS.) Waterson, Berlin & Snyder Company, New York, N. Y. Filed Sept. 19, 1921.

Waterson Berlin & Snyder Co

Particular description of goods.—Sheet-Music and Vocal and Instrumental Musical Compositions.
Claims use since 1918.

Ser. No. 153,120. (CLASS 28. PRINTS AND PUBLICATIONS.) Corona Typewriter Company, Inc., Groton, N. Y. Filed Sept. 20, 1921.

CORONA BULLETIN

Particular description of goods.—Magazines Published Monthly.
Claims use since October, 1918.

Ser. No. 153,236. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. Gumner's Sons Co., Inc., New York, N. Y. Filed Sept. 20, 1921.

PINK LADY

Particular description of goods.—Hair-Nets.
Claims use since Apr. 1, 1921.

Ser. No. 153,311. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) Manna Products Co., Minneapolis, Minn. Filed Sept. 24, 1921.

MANNA

Particular description of goods.—Soap.
Claims use since Sept. 1, 1921.

Ser. No. 153,322. (CLASS 37. PAPER AND STATIONERY.) American Writing Paper Company, Holyoke, Mass. Filed Sept. 26, 1921.

ACCOUNT

Particular description of goods.—Writing and Printing Papers and Mailing-Envelops.
Claims use since Aug. 1, 1910.

Ser. No. 153,451. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) Sidney J. Danjean, Franklin, La. Filed Sept. 28, 1921.

TOOT-SWEET

Particular description of goods.—A Preparation for Use in Cleaning the Hands.
Claims use since about June 1, 1921.

Ser. No. 153,459. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) George F. Kearney, Detroit, Mich. Filed Sept. 28, 1921.

Kearney's MAN O' WAR

Particular description of goods.—Metal-Polish.
Claims use since on or about Oct. 15, 1920.

Ser. No. 153,462. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) Los Angeles Soap Co., Los Angeles, Calif. Filed Sept. 28, 1921.



Particular description of goods.—Washing-Machine Soap.
Claims use since Jan. 31, 1920.

Ser. No. 153,464. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) Theodore L. Lange, Chicago, Ill. Filed Sept. 28, 1921.

Cheriola

Particular description of goods.—A Non-Alcoholic, Maltless, Non-Cereal Beverage Sold as a Soft Drink and Syrup for Making the Same.
Claims use since 1902.

Ser. No. 153,468. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) Midland Polish Company, Pittsburgh, Pa. Filed Sept. 28, 1921.

MI RA ND POLISH

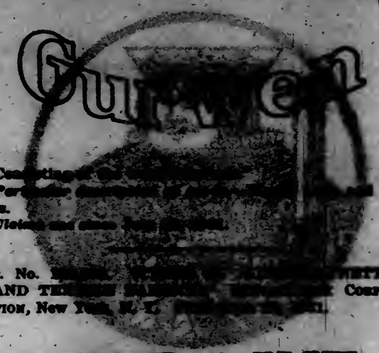
Particular description of goods.—Metal-Polish.
Claims use since Jan. 1, 1921.

Ser. No. 153,470. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) Alfred V. Oxley, Southington, Conn. Filed Sept. 28, 1921.

GASTOX

Particular description of goods.—Shoe-Dressing.
Claims use since Feb. 1, 1921.

[illegible] INCLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) [illegible], Inc., Philadelphia, Pa. Filed Sept. 30, 1921.



Consisting of the [illegible]
Particular description of goods.—[illegible] and Carpets.
Claims use since [illegible].

Ser. No. [illegible]. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) [illegible] Corporation, New York, N. Y. [illegible].

ARTLAINE

Particular description of goods.—Broad-Silk Piece Goods.
Claims use since on or about Jan. 15, 1921.

Ser. No. 153,536. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) Cheloidon Piano Company, Boston, Mass. Filed Sept. 30, 1921.



Particular description of goods.—Pianos.
Claims use since Mar. 23, 1921.

Ser. No. 153,539. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) Cheloidon Piano Company, Boston, Mass. Filed Sept. 30, 1921.



Particular description of goods.—Pianos.
Claims use since Mar. 23, 1921.

Ser. No. 153,597. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Gladly Hair Net Company, Inc., Wilmington, Del., and New York, N. Y. Filed Oct. 1, 1921.

699

Consists of the arbitrary numeral "699."
Particular description of goods.—Hair-Nets.
Claims use since Aug. 1, 1921.

Ser. No. [illegible]. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Gladly Hair Net Company, Inc., Wilmington, Del., and New York, N. Y. Filed Oct. 1, 1921.

999

Consists of the arbitrary numeral "999."
Particular description of goods.—Hair-Nets.
Claims use since Aug. 1, 1921.

Ser. No. 153,603. (CLASS 49. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) Herman Kassen, Philadelphia, Pa. Filed Oct. 1, 1921.



Particular description of goods.—Malt Extract.
Claims use since May 2, 1921.

Ser. No. 153,620. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) Price and Teeple Piano Company, Chicago, Ill. Filed Oct. 1, 1921. Under ten-year proviso.



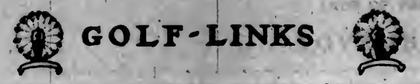
Particular description of goods.—Pianos and Player-Pianos.
Claims use since 1873.

Ser. No. 153,673. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. A. Migel, Inc., New York, N. Y. Filed Oct. 3, 1921.



Particular description of goods.—Broad Silks in the Piece.
Claims use since July 14, 1921.

Ser. No. 153,674. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. A. Migel, Inc., New York, N. Y. Filed Oct. 3, 1921.



Particular description of goods.—Broad Silks in the Piece.
Claims use since July 14, 1921.

Ser. No. 153,675. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. A. Migel, Inc., New York, N. Y. Filed Oct. 3, 1921.



Particular description of goods.—Broad Silks in the Piece.
Claims use since July 1, 1921.

Ser. No. 153,706. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) Wausau Abrasives Company, Wausau, Wis. Filed Oct. 3, 1921.

"RUFF STUFF"

Particular description of goods.—Sandpaper.
Claims use since Jan. 1, 1921.

Ser. No. 153,718. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Empire Notion Co., New York, N. Y. Filed Oct. 4, 1921.

Net-pin-pak

Consisting of the word "Net-Pin-Pak."
Particular description of goods.—Hair-Nets.
Claims use since July 15, 1921.

Ser. No. 153,751. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Clarence Whitman & Son, Inc., Katonah and New York, N. Y. Filed Oct. 4, 1921.

WHITMANCO

Particular description of goods.—Cotton Sheets and Pillow-Cases.
Claims use since Sept. 13, 1921.

Ser. No. 153,797. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) The Diamond Bottling Corporation, Waterbury, Conn. Filed Oct. 6, 1921. Under ten-year proviso.



Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.
Claims use since Jan. 30, 1893.

Ser. No. 153,821. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) Marston-Greening Co. Inc., Los Angeles, Calif. Filed Oct. 6, 1921.

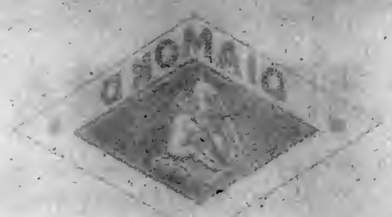


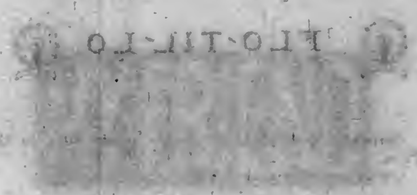
Particular description of goods.—Fountain-Syrups, Fruit Punch, Root-Beer Syrups and Extracts, and Maltless Cereal and Non-Cereal Beverages Containing Less Than One-half of One Per Cent. Alcohol.
Claims use since Nov. 6, 1918.

Ser. No. 154,009. (CLASS 41. CANES, PARASOLS, AND UMBRELLAS.) Advertising Distributors Ass'n., New York, N. Y. Filed Oct. 12, 1921.

Two-in-One

Particular description of goods.—Umbrellas.
Claims use since about Aug. 1, 1921.





TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

NOVEMBER 22, 1921.

148,630. NON-ALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. George William Anderson, Enid, Okla.
Filed March 16, 1921. Serial No. 144,797. PUBLISHED JULY 26, 1921.

148,631. GREEN COFFEE. J. Aron & Company Inc., New Orleans, La.
Filed March 28, 1921. Serial No. 145,305. PUBLISHED JULY 26, 1921.

148,632. COMPRESSED-AIR SYSTEMS OF AUTOMATIC COMBUSTION CONTROL FOR STEAM-BOILERS. Automatic Fuel Saving Co., Wilmington, Del., and Philadelphia, Pa.
Filed November 22, 1920. Serial No. 140,005. PUBLISHED JULY 19, 1921.

148,633. PIECE GOODS MANUFACTURED FROM OR CONSISTING OF LINEN, COTTONS, HEMPS, SILKS, OR WOOL. Lesum Bach, New York, N. Y.
Filed January 27, 1921. Serial No. 142,824. PUBLISHED JULY 19, 1921.

148,634. HAIR-NETS. S. Bakal & Son, New York, N. Y.
Filed December 8, 1920. Serial No. 140,774. PUBLISHED JULY 19, 1921.

148,635. CERTAIN LUBRICATING APPARATUS. The Bassick Manufacturing Co., Chicago, Ill.
Filed February 18, 1921. Serial No. 143,736. PUBLISHED AUGUST 16, 1921.

148,636. ANTIRHEUMATIC, ANALGESIC, AND ANTIPYRETIC. The Bayer Company, Inc., New York, N. Y.
Filed March 30, 1921. Serial No. 145,481. PUBLISHED JULY 19, 1921.

148,637. A MEDICINE FOR TREATMENT OF NERVOUS SYSTEM. Leo Albert Bogert, San Francisco, Calif.
Filed March 29, 1921. Serial No. 145,386. PUBLISHED JULY 19, 1921.

148,638. WHEAT-FLOUR. W. J. Cahill Company, Meriden, Conn.
Filed February 16, 1921. Serial No. 143,742. PUBLISHED JULY 19, 1921.

148,639. ANTISEPTIC MOUTH-WASHES. Frank S. Carroll, Asheville, N. C.
Filed February 26, 1921. Serial No. 144,065. PUBLISHED JULY 12, 1921.

148,640. PLASTERS FOR THE RELIEF OF ACHES AND PAINS WHEREVER A PLASTER CAN BE USED. Carter Medicine Company, New York, N. Y.
Filed January 22, 1921. Serial No. 142,590. PUBLISHED JULY 5, 1921.

148,641. CERTAIN NAMED CONSTRUCTION MATERIALS. Chicago Fire Brick Co., Chicago, Ill.
Filed February 5, 1921. Serial No. 143,205. PUBLISHED JULY 19, 1921.

148,642. MECHANICAL TRAFFIC-SIGNALS FOR VEHICLES. George F. Crism, Columbus, Ohio.
Filed February 24, 1921. Serial No. 143,982. PUBLISHED JULY 19, 1921.

148,643. POWDER-PUFFS. Columbia Powder Puff Co., New York, N. Y.
Filed November 16, 1920. Serial No. 139,706. PUBLISHED JULY 26, 1921.

148,644. WHEAT-FLOUR. Commercial Union of America, Incorporated, New York, N. Y.
Filed November 12, 1920. Serial No. 139,569. PUBLISHED JULY 19, 1921.

148,645. SULFATE OF ALUMINA. Como Chemical Co., Kokomo, Ind.
Filed February 26, 1921. Serial No. 144,067. PUBLISHED JULY 19, 1921.

148,646. HAIR-TONIC AND MEDICINAL SCALP TREATMENT. William A. Dedaick, Indianapolis, Ind.
Filed February 24, 1921. Serial No. 143,964. PUBLISHED JULY 12, 1921.

148,647. STANDS FOR TESTING STARTING-MOTORS AND ELECTRIC GENERATORS, AND GROWLERS FOR TESTING ARMATURES. The Electric Machine Company, Indianapolis, Ind.
Filed November 12, 1920. Serial No. 139,577. PUBLISHED JULY 19, 1921.

148,648. HORSE-RACING AMUSEMENT GAME APPARATUS. Louis A. Elfman, Philadelphia, Pa.
Filed February 16, 1921. Serial No. 143,638. PUBLISHED AUGUST 9, 1921.

148,649. CERTAIN NAMED ELECTRIC INSULATING COMPOUNDS. Fibroc Insulation Company, Valparaiso, Ind.
Filed March 17, 1921. Serial No. 144,856. PUBLISHED JULY 26, 1921.

148,650. FIRE-EXTINGUISHING COMPOUNDS. Foamite Firefoam Company, New York, N. Y.
Filed January 28, 1921. Serial No. 142,881. PUBLISHED JULY 19, 1921.

148,651. WRITING-PAPER. Fox River Paper Company, Appleton, Wis.
Filed April 9, 1921. Serial No. 145,943. PUBLISHED JULY 26, 1921.

148,652. A NON-ALCOHOLIC, MALTLESS BEVERAGE SOLD AS A SOFT DRINK AND SYRUP FOR MAKING THE SAME. Frank & Goldsmith, Chicago, Ill.
Filed March 28, 1921. Serial No. 145,327. PUBLISHED JULY 26, 1921.

148,653. MACHINERY CONSISTING OF HYDRAULIC PRESSES, SCREW-PRESSES, PUMPS, BALERS, COMPRESSES, AND SHOCK-ALLEVIATORS. Gaylland-Henning Mfg. Co., Milwaukee, Wis.
Filed February 18, 1921. Serial No. 143,754. PUBLISHED JULY 19, 1921.

148,654. WHEAT-FLOUR. Gallatin Valley Milling Company, Seattle, Wash., and Belgrade, Mont.
Filed January 20, 1921. Serial No. 142,489. PUBLISHED JULY 12, 1921.

148,655. CERTAIN NAMED MEDICINAL AND CHEMICAL PREPARATIONS. The Henry B. Gilpin Co., Baltimore, Md.
Filed January 18, 1921. Serial No. 142,389. PUBLISHED JUNE 28, 1921.

148,656. NATURAL AND ARTIFICIAL PEARLS. W. T. Grant Company, New York, N. Y.
Filed January 15, 1921. Serial No. 142,287. PUBLISHED JULY 5, 1921.

148,657. A CERTAIN NAMED MEDICINAL SALVE. The Great Northern Supply Company, Cleveland, Ohio.
Filed December 6, 1920. Serial No. 140,645. PUBLISHED JULY 5, 1921.

148,658. MEDICINE FOR USE IN THE TREATMENT OF THE LIVER. J. D. GRIMES, Liberty, N. C.
Filed March 14, 1921. Serial No. 144,719. PUBLISHED JUNE 28, 1921.

148,659. A CERTAIN NAMED MEDICINAL PREPARATION. JAMES W. GRIFFIN, Waterloo, Iowa.
Filed February 17, 1921. Serial No. 143,691. PUBLISHED JUNE 28, 1921.

148,660. A CERTAIN NAMED MEDICINAL PREPARATION. VICTOR HALPERN, New York, N. Y.
Filed November 6, 1920. Serial No. 139,267. PUBLISHED JULY 19, 1921.

148,661. A CERTAIN NAMED MEDICINAL PREPARATION. VICTOR HALPERN, New York, N. Y.
Filed November 6, 1920. Serial No. 139,268. PUBLISHED JULY 19, 1921.

148,662. PLURIGLANDULAR FORMULAS FOR THE TREATMENT OF VARIOUS ENDOCRINE INSUFFICIENCIES. HENRY R. HARROWER, Glendale, Calif.
Filed March 25, 1921. Serial No. 145,214. PUBLISHED JULY 26, 1921.

148,663. DENTIFRICE. HAYDAY LABORATORIES, Union Hill, N. J.
Filed February 26, 1921. Serial No. 144,085. PUBLISHED JULY 26, 1921.

148,664. SWEETENED, UNSWEETENED, FULL-CREAM EVAPORATED AND CONDENSED MILK AND UNSWEETENED WHOLE-CREAM MILK. HELVETIA MILK CONDENSING COMPANY, Highland, Ill.
Filed February 26, 1921. Serial No. 144,068. PUBLISHED JULY 19, 1921.

148,665. SWEETENED, UNSWEETENED, FULL-CREAM EVAPORATED AND CONDENSED MILK, AND UNSWEETENED WHOLE-CREAM MILK. HELVETIA MILK CONDENSING COMPANY, Highland, Ill.
Filed February 26, 1921. Serial No. 144,069. PUBLISHED JULY 19, 1921.

148,666. DRESSED POULTRY. GEORGE F. HINRICHS INC., New York, N. Y.
Filed March 23, 1921. Serial No. 145,106. PUBLISHED JULY 26, 1921.

148,667. AUTOMOBILES. THE HOLMES AUTOMOBILE COMPANY, Canton, Ohio.
Filed April 7, 1921. Serial No. 145,230. PUBLISHED JULY 26, 1921.

148,668. FACE AND TOILET POWDER. PARFUMERIE HOUBIGANT, Paris, France, assignors to Houbigant, Inc., New York, N. Y., a Corporation of New York.
Filed March 14, 1921. Serial No. 144,721. PUBLISHED JULY 12, 1921.

148,669. CORSETS. F. P. HOY INC., New York, N. Y.
Filed January 17, 1921. Serial No. 142,841. PUBLISHED JULY 19, 1921.

148,670. MEDICINE-SALVE. FRANCIS M. HUNTER, Portland, Oreg.
Filed November 20, 1920. Serial No. 139,980. PUBLISHED JUNE 28, 1921.

148,671. BOOTS AND SHOES OF LEATHER OR PARTLY OF LEATHER AND CLOTH. HUNTINGTON SHOE AND LEATHER COMPANY, Huntington, Ind.
Filed February 7, 1921. Serial No. 143,267. PUBLISHED JULY 19, 1921.

148,672. CORSETS. INTERNATIONAL CORSET COMPANY, Aurora, Ill.
Filed March 14, 1921. Serial No. 144,722. PUBLISHED JULY 19, 1921.

148,673. A REMEDY FOR WHOOPING-COUGH AND TO ALLEVIATE COLDS AND SORE THROAT. JACOB JANE, Philadelphia, Pa.
Filed March 22, 1921. Serial No. 145,067. PUBLISHED JULY 26, 1921.

148,674. PERFUME. THE ANDREW JERGENS COMPANY, Cincinnati, Ohio.
Filed February 12, 1921. Serial No. 143,470. PUBLISHED JULY 19, 1921.

148,675. A SKIN-LOTION. THE ANDREW JERGENS COMPANY, Cincinnati, Ohio.
Filed February 12, 1921. Serial No. 143,471. PUBLISHED JULY 19, 1921.

148,676. TOILET POWDER. THE ANDREW JERGENS COMPANY, Cincinnati, Ohio.
Filed February 12, 1921. Serial No. 143,472. PUBLISHED JULY 12, 1921.

148,677. CERTAIN NAMED TOILET PREPARATION. JOHNSON, COWDIN & COMPANY, INC., New York, N. Y.
Filed November 22, 1920. Serial No. 139,979. PUBLISHED JUNE 28, 1921.

148,678. CERTAIN NAMED TOILET PREPARATIONS. JOHNSON, COWDIN & COMPANY, INC., New York, N. Y.
Filed November 22, 1920. Serial No. 139,980. PUBLISHED JUNE 28, 1921.

148,679. COLLARS AND CUFFS. HYMAN M. KASS, New York, N. Y.
Filed November 6, 1920. Serial No. 139,287. PUBLISHED JULY 19, 1921.

148,680. CERTAIN NAMED CHEMICAL, MEDICINAL, AND PHARMACEUTICAL PREPARATIONS. KATZENBACH & BULLOCK CO., New York, N. Y.
Filed February 5, 1921. Serial No. 143,214. PUBLISHED JULY 19, 1921.

148,681. HOSIERY. KING & COMPANY, New York, N. Y.
Filed April 6, 1921. Serial No. 145,691. PUBLISHED JULY 26, 1921.

148,682. A CLEANING PREPARATION USED FOR CLEANING CARPETS, RUGS, AND THE LIKE. STEVE KROUSE, Cleveland, Ohio.
Filed March 15, 1921. Serial No. 144,778. PUBLISHED JULY 26, 1921.

148,683. A POWDERED COMPOSITION TO BE DISSOLVED IN WATER AND SPRINKLED OVER COAL TO FACILITATE COMBUSTION. LESS-COAL MANUFACTURING COMPANY, Boston, Mass.
Filed November 11, 1920. Serial No. 139,538. PUBLISHED JULY 19, 1921.

148,684. A CHEMICAL PREPARATION IN TABLET FORM FOR INTERMIXING GASOLENE AND REMOVING CARBON. EDWARD K. LINCOLN, New York, N. Y.
Filed March 16, 1921. Serial No. 144,818. PUBLISHED JULY 26, 1921.

148,685. SHAMPOO AND DANDRUFF-REMOVER, POWDER FORM. HENRY F. LINZ, Chicago, Ill.
Filed January 17, 1921. Serial No. 142,848. PUBLISHED JULY 19, 1921.

148,686. A CERTAIN NAMED MEDICINAL PREPARATION. OTIS E. LYONS, Kansas City, Mo.
Filed January 20, 1921. Serial No. 142,514. PUBLISHED JULY 12, 1921.

148,687. CANDIES. ALEXANDER BRUCE MCCARTNEY, Marshalltown, Iowa.
Filed March 14, 1921. Serial No. 144,734. PUBLISHED JULY 19, 1921.

148,688. NON-ALCOHOLIC, MALTLESS BEVERAGE SOLD AS A SOFT DRINK. MAGNUS FRUIT PRODUCTS CO., San Francisco, Calif.
Filed January 26, 1921. Serial No. 142,761. PUBLISHED JULY 26, 1921.

148,689. MUSLIN IN THE PIECE AND PILLOW-CASES. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,209. PUBLISHED APRIL 5, 1921.

148,690. NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGE SOLD AS A SOFT DRINK. MICHAEL MATRANGA, New York, N. Y.
Filed March 19, 1921. Serial No. 144,975. PUBLISHED JULY 26, 1921.

148,691. A HAIR-GROWER FOR SHAMPOOING, OILING, AND STRAIGHTENING THE HAIR. LAURA B. MOORE, Griffin, Ga.
Filed January 20, 1921. Serial No. 142,530. PUBLISHED JULY 5, 1921.

148,692. RAILROAD-CAR METAL ROOFS AND CERTAIN-NAMED PARTS OF SUCH ROOFS. P. H. MURPHY COMPANY, New Kensington, Pa.
Filed March 14, 1921. Serial No. 144,780. PUBLISHED JULY 19, 1921.

148,693. WOVEN COTTON PIECE GOODS. ROSEN, HESSLEIN & CO. INC., New York, N. Y.
Filed January 31, 1921. Serial No. 142,906. PUBLISHED JULY 19, 1921.

148,694. WOVEN COTTON PIECE GOODS—NAMELY, COTTON CANVAS. ROSEN, HESSLEIN & CO. Inc., New York, N. Y.
Filed February 10, 1921. Serial No. 143,096. PUBLISHED JULY 19, 1921.

148,695. A MEDICINAL PREPARATION FOR THE TREATMENT OF RHEUMATISM, LUMBAGO, AND KINDRED DISEASES. NO RUMA MEDICINE CO., Albuquerque, N. Mex.
Filed March 26, 1921. Serial No. 145,263. PUBLISHED JULY 19, 1921.

148,696. A PREPARATION TO BE USED IN THE TREATMENT OF TUBERCULOSIS. NUFORAL LABORATORIES, INC., New York, N. Y.
Filed February 23, 1921. Serial No. 143,941. PUBLISHED JUNE 28, 1921.

148,697. A PREPARATION TO BE USED IN THE TREATMENT OF TUBERCULOSIS. NUFORAL LABORATORIES, INC., New York, N. Y.
Filed February 23, 1921. Serial No. 143,942. PUBLISHED JULY 5, 1921.

148,698. A PREPARATION TO BE USED IN THE TREATMENT OF TUBERCULOSIS. NUFORAL LABORATORIES, INC., New York, N. Y.
Filed February 23, 1921. Serial No. 143,943. PUBLISHED JUNE 28, 1921.

148,699. GENERAL TONIC. NUX-I-KOLA COMPANY, Detroit, Mich.
Filed January 24, 1921. Serial No. 142,715. PUBLISHED JULY 12, 1921.

148,700. A MEDICINE FOR THE TREATMENT OF ECZEMA AND ALL DISEASES OF THE SKIN AND SCALP. B. F. OTT, Payson, Utah.
Filed March 14, 1921. Serial No. 144,736. PUBLISHED JUNE 28, 1921.

148,701. FOOT-LOTION. PA-DE-LO CHEMICAL COMPANY, Wilson, N. C.
Filed March 15, 1921. Serial No. 144,783. PUBLISHED JULY 26, 1921.

148,702. STORAGE-BATTERY ELECTROLYTE. PEP ELECTROLITE CO., Chicago, Ill.
Filed March 28, 1921. Serial No. 145,358. PUBLISHED JULY 19, 1921.

148,703. AUTOMOBILE-RADIATORS. PERFEX RADIATOR COMPANY, Racine, Wis.
Filed February 26, 1921. Serial No. 144,101. PUBLISHED JULY 19, 1921.

148,704. TALC AND FACE POWDERS, PERFUMES, HAIR-TONIC, COLOGNES, AND TOILET WATERS. PERFUMERIA FLORALIA, S. A., Madrid, Spain.
Filed March 15, 1921. Serial No. 144,784. PUBLISHED JULY 26, 1921.

148,705. BUTTER, EGGS, AND CREAM. PIONEER CREAMERY CO., Galesburg, Ill.
Filed February 18, 1921. Serial No. 143,782. PUBLISHED JULY 19, 1921.

148,706. HOSIERY. THE PITTSBURGH DRY GOODS COMPANY, Pittsburgh, Pa.
Filed April 4, 1921. Serial No. 145,710. PUBLISHED JULY 26, 1921.

148,707. MERCURY INJECTION. P. E. RINGGOLD, JR., CO. INC., New York, N. Y.
Filed March 26, 1921. Serial No. 145,290. PUBLISHED JULY 19, 1921.

148,708. PERFUMES, TOILET CREAMS, HAIR-LOTIONS, EAU DE COLOGNE, DENTIFRICES, LIPSTICKS, AND ROUGES. E. ROGER & CIE., Paris and Courbevoie, France.
Filed February 28, 1921. Serial No. 145,087. PUBLISHED JUNE 28, 1921.

148,709. MEN'S COATS, VESTS, PANTS, AND OVERCOATS. ROSENBERG BROS. & CO., Rochester, N. Y.
Filed March 26, 1921. Serial No. 145,292. PUBLISHED JULY 26, 1921.

148,710. FOUNTAIN-PENS. SIMPLO FÜLLFEDER-GESELLSCHAFT VOSS, LAUBEN & DREAMBOR, Hamburg, Germany.
Filed March 28, 1921. Serial No. 145,364. PUBLISHED JULY 26, 1921.

148,711. SHOES OF LEATHER, CANVAS AND LEATHER, CANVAS AND RUBBER, AND LEATHER AND RUBBER. J. P. SMITH SHOE CO., Chicago, Ill.
Filed March 14, 1921. Serial No. 144,746. PUBLISHED JULY 19, 1921.

148,712. SHOES OF LEATHER, CANVAS AND LEATHER, CANVAS AND RUBBER, AND LEATHER AND RUBBER. J. P. SMITH SHOE CO., Chicago, Ill.
Filed Mar. 14, 1921. Serial No. 144,747. PUBLISHED JULY 19, 1921.

148,713. SHOES OF LEATHER, CANVAS AND LEATHER, CANVAS AND RUBBER, AND LEATHER AND RUBBER. J. P. SMITH SHOE CO., Chicago, Ill.
Filed Mar. 14, 1921. Serial No. 144,748. PUBLISHED JULY 19, 1921.

148,714. SILVERWARE, AND PARTICULARLY HOLLOW WARE AND FLAT-WARE. W. D. SMITH Silver Co., Chicago, Ill.
Filed March 28, 1921. Serial No. 145,366. PUBLISHED JULY 26, 1921.

148,715. ROOT-BEER. SOUTHERN BEVERAGE COMPANY, Galveston, Tex.
Filed March 29, 1921. Serial No. 145,418. PUBLISHED JULY 26, 1921.

148,716. TALCUM POWDER. THE SYDNEY ROSS COMPANY, INC., Newark, N. J., and New York, N. Y.
Filed February 28, 1921. Serial No. 143,954. PUBLISHED JUNE 28, 1921.

148,717. WHEAT-FLOUR. TEXAS STAR FLOUR MILLS, Galveston, Tex.
Filed March 12, 1921. Serial No. 144,691. PUBLISHED JULY 19, 1921.

148,718. CERTAIN NAMED PAPERS. UNION CARD & PAPER CO., New York, N. Y.
Filed March 17, 1921. Serial No. 144,886. PUBLISHED JULY 26, 1921.

148,719. A CERTAIN NAMED MEDICINAL PREPARATION. WILLIAM R. WARNER & CO., INC., Wilmington, Del., New York, N. Y., and St. Louis, Mo.
Filed February 21, 1921. Serial No. 143,849. PUBLISHED JUNE 28, 1921.

148,720. SILK AND SILK-MIXTURE FABRICS IN THE PIECE. WECHSLER BARDEL SILK CO., INC., New York, N. Y.
Filed April 2, 1921. Serial No. 145,661. PUBLISHED JULY 26, 1921.

148,721. A CERTAIN NAMED MEDICINAL PREPARATION. WELDON DRUG CO., Weldon, N. C.
Filed March 22, 1921. Serial No. 145,094. PUBLISHED JULY 26, 1921.

148,722. SPECTACLE-FRAMES AND EYEGLASS-FRAMES. Henry Paulson, Chicago, Ill.
Filed Nov. 20, 1920. Serial No. 140,605. PUBLISHED JULY 19, 1921.

148,723. CERTAIN NAMED MEDICINAL AND TOILET PREPARATIONS. Plough Chemical Company, Memphis, Tenn.
Filed January 19, 1921. Serial No. 142,453. PUBLISHED JULY 12, 1921.

148,724. CERTAIN NAMED MEDICINAL AND TOILET PREPARATIONS. Plough Chemical Company, Memphis, Tenn.
Filed January 19, 1921. Serial No. 142,454. PUBLISHED JULY 12, 1921.

148,725. A LUBRICANT TO BE APPLIED TO THE HUMAN SKIN. Katherine R. Pond, Rutland, Vt.
Filed January 21, 1921. Serial No. 142,568. PUBLISHED JULY 5, 1921.

148,726. A PREPARATION FOR THE TREATMENT OF PILES. Pohn & Kuehnel, St. Louis, Mo.
Filed January 19, 1921. Serial No. 142,444. PUBLISHED JULY 12, 1921.

148,727. CERTAIN NAMED MEDICINAL AND PHARMACEUTICAL PREPARATIONS. The Frontic Druggists Inc., Baltimore, Md.
Filed February 10, 1921. Serial No. 143,400. PUBLISHED JULY 19, 1921.

148,728. CERTAIN NAMED GARMENT-FASTENING DEVICES. The Puritan Mfg. Co., Toledo, Ohio.
Filed March 14, 1921. Serial No. 144,737. PUBLISHED JULY 26, 1921.

148,729. CERTAIN PARTS OF MACHINERY. George W. Pyott Co., Chicago, Ill.
Filed October 29, 1920. Serial No. 138,956. PUBLISHED JULY 19, 1921.

148,730. ICE-CREAM POWDER AND MERINGUE-POWDER. Frederick E. Richardson, New York, N. Y.
Filed November 10, 1920. Serial No. 139,476. PUBLISHED JULY 19, 1921.

148,731. COTTON PIECE GOODS. A. M. Robinson Company, Atlanta, Ga.
Filed January 26, 1921. Serial No. 142,809. PUBLISHED MAY 31, 1921.

148,732. AMMONIA. David Robinson, Brooklyn, N. Y.
Filed January 27, 1921. Serial No. 142,853. PUBLISHED JULY 19, 1921.

148,733. A CERTAIN NAMED MEDICINAL PREPARATION. Edward Percy Robinson, New York, N. Y.
Filed January 17, 1921. Serial No. 142,360. PUBLISHED JULY 5, 1921.

148,734. SPECTACLE-FRAMES AND RIMS FOR SPECTACLE-FRAMES MADE WHOLLY OR IN PART OF CELLULOID. Ross & Company, Brooklyn, N. Y.
Filed December 2, 1920. Serial No. 140,547. PUBLISHED JULY 19, 1921.

148,735. PERFUMES, TOILET WATERS, FACE-LOTIONS, BEAUTY-CREAM, FACE-POWDER, BRILLIANTINE. Maurice Rousseil, Paris, France.
Filed February 16, 1921. Serial No. 143,658. PUBLISHED JULY 12, 1921.

148,736. BAKING-POWDER. Royal Baking Powder Company, Jersey City, N. J., and New York, N. Y.
Filed February 17, 1921. Serial No. 143,707. PUBLISHED JUNE 28, 1921.

148,737. GARGLE, MOUTH-WASH, AND NASAL SPRAY. San Antonio Drug Co., San Antonio, Tex.
Filed January 18, 1921. Serial No. 142,429. PUBLISHED JUNE 14, 1921.

148,738. CHAMBRAY IN THE PIECE. Shaw, Rencock and Co., Chicago, Ill.
Filed November 17, 1920. Serial No. 139,795. PUBLISHED JULY 19, 1921.

148,739. SHINGLES. Shull Lumber & Shingle Co., Seattle, Wash.
Filed March 12, 1921. Serial No. 144,632. PUBLISHED JULY 19, 1921.

148,740. CERTAIN NAMED TOILET PREPARATIONS. Alfred H. Smith Company, New York, N. Y.
Filed November 4, 1920. Serial No. 139,174. PUBLISHED JULY 12, 1921.

148,741. CERTAIN NAMED MEDICINAL PREPARATION. The Sodersbine Company of North America, Wilmington, Del., and Brooklyn, N. Y.
Filed February 12, 1921. Serial No. 143,518. PUBLISHED JULY 19, 1921.

148,742. GARMENTS FOR WOMEN AND CHILDREN—NAMELY, APRONS AND DRESSES. The Stauber Manufacturing Co., Clinton, Iowa.
Filed January 22, 1921. Serial No. 142,675. PUBLISHED JULY 19, 1921.

148,743. BABY-PANTS AND APRONS. Jacob Stein, New York, N. Y.
Filed January 29, 1921. Serial No. 142,944. PUBLISHED JULY 19, 1921.

148,744. AN ANTISEPTIC FOR USE AFTER SHAVING. Tausch Company, Chicago, Ill.
Filed February 16, 1921. Serial No. 143,674. PUBLISHED JUNE 28, 1921.

148,745. A PREPARATION FOR THE TREATMENT OF DANDRUFF AND ECZEMA. Towers, Williamson & Tollett, Guthrie, Okla.
Filed February 14, 1921. Serial No. 143,590. PUBLISHED JULY 12, 1921.

148,746. ROUGE AND FACE-POWDER IN COMPACT FORM. V. Vivaudou, Inc., New York, N. Y.
Filed January 15, 1921. Serial No. 142,311. PUBLISHED JUNE 28, 1921.

148,747. WOOD-PRESERVATIVE. G. H. Voter, Inc., Boston, Mass.
Filed February 2, 1921. Serial No. 143,110. PUBLISHED JULY 12, 1921.

148,748. TALCUM POWDER. The J. B. Williams Company, Glastonbury, Conn.
Filed February 17, 1921. Serial No. 143,730. PUBLISHED JUNE 28, 1921.

148,749. A COMPOUND MILK. The Wisconsin Butter & Cheese Co., Elkhorn, Wis.
Filed October 25, 1920. Serial No. 138,796. PUBLISHED JULY 19, 1921.

148,750. TOILET CREAMS, TOILET POWDERS, TOILET LOTIONS, AND PERFUMES. Fidelon W. Wiseman, St. Louis, Mo.
Filed January 17, 1921. Serial No. 142,371. PUBLISHED JULY 12, 1921.

148,751. CHEWING-GUM. Wm. Wrigley Jr. Company, Chicago, Ill.
Filed December 10, 1920. Serial No. 140,906. PUBLISHED JULY 19, 1921.

148,752. SUSPENDERS, GARTERS, MEN'S BELTS AND ARMBANDS. A. Zingler & Sons Company, Roxbury, Mass.
Filed January 13, 1921. Serial No. 142,241. PUBLISHED JULY 19, 1921.

148,774. GIRLS' AND MISSES' DRESSES. Schroeder & Company, Inc., New York, N. Y.
Filed March 1, 1921. Serial No. 144,495. PUBLISHED JUNE 21, 1921.

TRADE-MARK REGISTRATIONS GRANTED

(ACT OF MARCH 19, 1920; SUPL. T (61).

NOVEMBER 22, 1921.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

148,753. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) The American Scientific Laboratory, Los Angeles, Calif. Filed June 28, 1919. Serial No. 129,022.

Epsomaqua

Particular description of goods.—A Liquid Purgative.
Claims use since Apr. 1, 1919.

148,754. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) The Cruse Company, Inc., New York, N. Y. Filed Nov. 1, 1920. Serial No. 139,522.

Cruse

Particular description of goods.—Gum Cream and Dentifrice.
Claims use since Oct. 1, 1920.

148,755. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Allan J. Dash Company, Inc., Rochester, N. Y. Filed July 11, 1921. Serial No. 150,227.

EVANS TRIPLE PHOSPHATES

Particular description of goods.—A Medicine for Nervous Prostration and Exhaustion, Mental Depression, Unstrung Nerves, Anemia, Chlorosis, Nervous Dyspepsia, Tonic for Strengthening a Weakened and Exhausted Body and Brain and General Debilities.
Claims use since July 30, 1919.

148,756. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Davenport Candy Co., Davenport, Iowa. Filed July 11, 1921. Serial No. 150,225.

Cocoanut Goodies

Particular description of goods.—Candy.
Claims use since Oct. 21, 1919.

148,757. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Samuel Preston Davis, Little Rock, Ark. Filed July 2, 1921. Serial No. 149,951.

VERIBEST

Particular description of goods.—Cattle and Stock Feed.
Claims use since Jan. 1, 1911.

148,758. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) The De Leon Bandeau Co., St. Louis, Mo. Filed Sept. 3, 1921. Serial No. 152,548.

De Leon

Particular description of goods.—Hat-Bandeaux.
Claims use since Sept. 1, 1914.

148,759. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) Clarence A. Doty, Lakewood, Ohio. Filed July 15, 1921. Serial No. 150,296.

Doty-Soap
No Water is Needed

Particular description of goods.—Soap.
Claims use since June 9, 1920.

148,760. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Fialla & Eppler Inc., New York, N. Y. Filed June 1, 1921. Serial No. 148,491.

Sterling

Particular description of goods.—Crushed Fruits.
Claims use since 1918.

148,761. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JOHN W. GLENN, Buffalo, N. Y. Filed July 22, 1921. Serial No. 150,866.

GLENN'S

Particular description of goods.—Toys Made of Paraffin in the Form of Balls, Human Figures, Hats, Whistles, Smoking-Pipes, Revolvers, Chicks, and Tops.
Claims use since Feb. 6, 1903.

148,762. (CLASS 2. RECEPTACLES.) INTERNATIONAL TRAY CO., New York, N. Y. Filed Mar. 30, 1921. Serial No. 145,459.



Particular description of goods.—Wooden Trays.
Claims use since about Mar. 1, 1920.

148,763. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GERMEA PHARMACAL CO., INC., New York and Elmhurst, N. Y. Filed July 8, 1921. Serial No. 150,155.

Johnston's
Surgical
Dressings

Particular description of goods.—Antiseptic Ointment.
Claims use since Mar. 25, 1905.

148,764. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAY HOMER LOWE, Madison, N. Y. Filed Mar. 21, 1921. Serial No. 145,691.

CARTER'S
NON OIL
LINIMENT

Particular description of goods.—Liniment.
Claims use since Sept. 1, 1920.

148,765. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARSHALL OIL COMPANY OF IOWA, Marshalltown, Iowa. Filed Aug. 1, 1921. Serial No. 151,234.

STOP
-A-
BEAR

Particular description of goods.—Radiator Compounds.
Claims use since January, 1920.

148,766. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MYRIC-HOMER COMPANY, Portland, Oreg. Filed June 2, 1921. Serial No. 144,948.

TAPOL
VAPOR

Particular description of goods.—Medical Preparation for the Treatment of Tuberculosis and All Diseases of the Bronchial Passages.
Claims use since Jan. 1, 1919.

148,767. (CLASS 32. FURNITURE AND UPHOLSTERY.) NEVER-STRETCH MATTRESS COMPANY, Philadelphia, Pa. Filed July 22, 1921. Serial No. 150,876.

Never-Stretch

Particular description of goods.—Mattresses.
Claims use since November, 1911.

148,768. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ANTONIA YANES PUEBLA, Cordoba, Spain. Filed Jan. 6, 1921. Serial No. 141,992.



Particular description of goods.—Olive Oil.
Claims use since prior to July 1, 1919.

148,769. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) LEWIS RUHE, San Francisco, Calif. Filed Apr. 1, 1921. Serial No. 145,590.

Best-Ever

Particular description of goods.—Malt and Hops Syrup.
Claims use since Jan. 1, 1920.

148,770. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) LINNAEUS T. SAVAGE, New York, N. Y. Filed Dec. 8, 1920. Serial No. 140,808.

ANIMATE
TOY

Particular description of goods.—Manually and Self-Propelled Mechanical Toys.
Claims use since November, 1918.

148,771. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SOUTHWESTERN MILLING COMPANY, INC., New York, N. Y. Filed Dec. 23, 1920. Serial No. 141,460.

BRAGANÇA

Particular description of goods.—Wheat-Flour.
Claims use since Dec. 9, 1919.

148,772. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HERMAN P. WILKINS, Chicago, Ill. Filed Jan. 15, 1921. Serial No. 142,302.

DANDELION-LAX

Particular description of goods.—A Laxative Tonic Medicine.
Claims use since Sept. 1, 1920.

148,773. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OLIVER WYNNE, Norfolk, Va. Filed Dec. 13, 1920. Serial No. 141,053.

FAULTLESS

Particular description of goods.—Lard Substitutes Composed of Cotton-Seed Oil and other Ingredients.
Claims use since Nov. 2, 1920.

148,761. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) John W. Glenn, Buffalo, N. Y. Filed July 22, 1921. Serial No. 150,980.

GLENN'S

Particular description of goods.—Smoke Shade of Paraffin in the Form of Balls, Miniature Pipeful Shell Whistles, Smoking-Pipes, Revolvers, Chicks, and Tops.
Claims use since Feb. 6, 1902.

148,762. (CLASS 2. RECEPTACLES.) International Tray Co., New York, N. Y. Filed Mar. 30, 1921. Serial No. 145,459.



Particular description of goods.—Wooden Trays.
Claims use since about Mar. 1, 1920.

148,763. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Gomess Pharmacal Co., Inc., New York and Elmhurst, N. Y. Filed July 8, 1921. Serial No. 150,155.

Johnston's
Surgical
Dressing

Particular description of goods.—Antiseptic Ointment.
Claims use since Mar. 25, 1905.

148,764. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Jay Hoxsie Lowe, Hudson, N. Y. Filed Mar. 21, 1922. Serial No. 146,870.

CARTER'S
NON-Poison
OIL
LINIMENT

Particular description of goods.—Liniment.
Claims use since Sept. 1, 1920.

148,765. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Marshall Oil Company of Iowa, Marshalltown, Iowa. Filed Aug. 1, 1921. Serial No. 151,224.

STOP
-A-
BEAR

Particular description of goods.—Radiator Compounds.
Claims use since January, 1920.

148,766. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Myrtle-Harbour Company, Portland, Oreg. Filed June 2, 1921. Serial No. 148,948.

TAROL
VAPOR

Particular description of goods.—Medical Preparation for the Treatment of Tuberculosis and All Diseases of the Bronchial Passages.
Claims use since Jan. 1, 1919.

148,767. (CLASS 32. FURNITURE AND UPHOLSTERY.) Never-Stretch Mattress Company, Philadelphia, Pa. Filed July 20, 1921. Serial No. 150,876.

Never-Stretch

Particular description of goods.—Mattresses.
Claims use since November, 1911.

148,768. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Aniana Yanes Pueblа, Cordoba, Spain. Filed Jan. 8, 1921. Serial No. 141,992.



Particular description of goods.—Olive Oil.
Claims use since prior to July 1, 1919.

148,769. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) Lewis Rehm, San Francisco, Calif. Filed Apr. 1, 1921. Serial No. 145,590.

Best-Ever

Particular description of goods.—Malt and Hops Syrup.
Claims use since Jan. 1, 1920.

148,770. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) Linnaeus T. Savage, New York, N. Y. Filed Dec. 2, 1920. Serial No. 140,898.

ANIMATE
TOY

Particular description of goods.—Manually and Self-Propelled Mechanical Toys.
Claims use since November, 1918.

148,771. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) The Southwestern Milling Company, Inc., New York, N. Y. Filed Dec. 23, 1920. Serial No. 141,469.

BRAGANÇA

Particular description of goods.—Wheat-Flour.
Claims use since Dec. 9, 1919.

148,772. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Horace P. Wilkins, Chicago, Ill. Filed Jan. 15, 1921. Serial No. 142,902.

DANDELION-LAX

Particular description of goods.—A Laxative Tonic Medicine.
Claims use since Sept. 1, 1920.

148,773. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Oliver Wynne, Norfolk, Va. Filed Dec. 18, 1920. Serial No. 141,653.

FAULTLESS

Particular description of goods.—Lard Substitutes Composed of Cotton-Seed Oil and other Ingredients.
Claims use since Nov. 2, 1920.

LABELS

REGISTERED NOVEMBER 22, 1921.

23,652.—*Title:* "[illegible]." (For a Medicine, Veterinary Preparation.) W. D. P. Allen, [illegible], Pa. Filed August 18, 1921.

23,653.—*Title:* "ALAMO BRAND." (For Cantaloupe.) Alamo Packing Company, Los Angeles, Calif. Filed October 3, 1921.

23,654.—*Title:* "A. B. C." (For Packages and Cartons Containing Marshmallow Creme.) American Marshmallow and Candy Company, Chicago, Ill. Filed May 18, 1920.

23,655.—*Title:* "OKAY." (For Calf-Leather.) Barnet Leather Co. Inc., New York, N. Y. Filed July 2, 1921.

23,656.—*Title:* "MELAN." (For Calf-Leather.) Barnet Leather Co. Inc., New York, N. Y. Filed July 2, 1921.

23,657.—*Title:* "CHIC." (For Calf-Leather.) Barnet Leather Co. Inc., New York, N. Y. Filed July 2, 1921.

23,658.—*Title:* "INSECT GAS." (For [illegible].) Davis Bowen, Cairo, Ga. Filed June 20, 1921.

23,659.—*Title:* "BEER RABBIT KISSES." (For Candy Wrappers, Boxes, and Containers as are Used in Marketing the Candy Sold by This Company.) Beer Rabbit Candy Company, Detroit, Mich. Filed May 2, 1921.

23,660.—*Title:* "NU-LIFE SILVER PLATE AND POLISH." (For Bottled Silver Plate and Polish.) Mrs. Kathryn Camp, Indianapolis, Ind. Filed August 20, 1921.

23,661.—*Title:* "BE-AR-Ō-LA." (For a Non-Alcoholic Beverage Sold as a Soft Drink and Containing Sugar and Chocolate Flavoring.) Choc-Ō-La Co., San Francisco, Calif. Filed April 6, 1921.

23,662.—*Title:* "LAWRENCE BRAND X X X MALT." (For Beverages (Malt).) Eagle Beverage Co., Rochester, N. Y. Filed October 15, 1921.

23,663.—*Title:* "EQUITY." (For Apples.) Equity Growers & Shippers Association, Hamilton, Mont. Filed October 6, 1921.

23,664.—*Title:* "FRANCES FOX OLIVE OIL SOAP FOR HAIR & SKIN." (For Soap.) Frances Fox Laboratories, Incorporated, New York, N. Y. Filed July 25, 1921.

23,665.—*Title:* "SISTER SUSIE." (For Boxes, Packages, or Envelops Containing Hair-Nets.) Theo. B. Frankel Co. Inc., New York, N. Y. Filed July 5, 1921.

23,666.—*Title:* "UNICRIM REAL HUMAN HAIR NET." (For Hair-Nets.) Theo. H. Gary Co., New York, N. Y. Filed October 11, 1921.

23,667.—*Title:* "HARRY'S CHOCOLATES." (For Packages, Containers, or Boxes for Containing the Confection.) Harry Howard Candy Company, San Francisco, Calif. Filed July 25, 1921.

23,668.—*Title:* "BONNIE SCOTCH TOFFEE." (For Scotch Toffee.) Imperial Candy Co., Seattle, Wash. Filed July 16, 1921.

23,669.—*Title:* "PEWAUKEE LAKE." (For Canned Peas.) Independent Canning Co., Chicago, Ill. Filed October 6, 1921.

23,670.—*Title:* "MENU." (For Canned Peas.) Independent Canning Co., Chicago, Ill. Filed October 6, 1921.

23,671.—*Title:* "HIGH-LIFE." (For Canned Peas.) Independent Canning Co., Chicago, Ill. Filed October 6, 1921.

23,672.—*Title:* "WISHLESS." (For Canned Peas.) Independent Canning Co., Chicago, Ill. Filed October 6, 1921.

23,673.—*Title:* "TOKALON LIP ROUGE." (For Receptacles and Packages Containing Deep and Light-Colored Lip-Rouges Known in the Trade as Fonce and Clair, Respectively.) International Consolidated Chemical Corporation, Inc., New York, N. Y. Filed May 24, 1921.

23,674.—*Title:* "ROYAL." (For Tin Cans Containing Malt Extract.) Max Ernest Krauss, Cincinnati, Ohio. Filed April 30, 1921.

23,675.—*Title:* "GOLDEN EAGLE." (For Coffee.) Malone & Hyde, Inc., Memphis, Tenn. Filed July 30, 1921.

23,676.—*Title:* "E-Z BLUE." (For Bluing for Laundry or Washing Purposes.) W. B. Mansir, Chicago, Ill. Filed July 27, 1921.

23,677.—*Title:* "CREAMERY BUTTER." (For Cartons Containing Butter.) Menasha Printing and Carton Company, Menasha, Wis. Filed January 14, 1921.

23,678.—*Title:* "TOLOMA." (For Cartons Containing Butter.) Menasha Printing and Carton Company, Menasha, Wis., assignor to Toloma Creamery, Los Angeles, Calif. Filed September 15, 1921.

23,679.—*Title:* "BUSHWAY'S." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company, Menasha, Wis., assignor to Bushway Ice Cream Company, Somerville, Mass. Filed September 15, 1921.

23,680.—*Title:* "CLOVER DEW." (For Cartons Containing Butter.) Menasha Printing and Carton Company, Menasha, Wis., assignor to Sterling Dairy Products Company, Twin Falls, Idaho. Filed September 15, 1921.

23,681.—*Title:* "VITA-GOLD." (For Cartons Containing Butter.) Menasha Printing and Carton Company, Menasha, Wis., assignor to Stephenson County Co-operative Marketing Company, Freeport, Ill. Filed September 15, 1921.

23,682.—*Title:* "FROZNPURE." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company, Menasha, Wis., assignor to Frozpure Ice Cream Company, Incorporated, Louisville, Ky. Filed September 15, 1921.

23,683.—*Title:* "BILLET DEAUX." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company, Milwaukee, Wis. Filed October 3, 1921.

23,684.—*Title:* "MEL-O-DEL." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company, Milwaukee, Wis. Filed October 3, 1921.

23,685.—*Title:* "DON JUAN." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company, Milwaukee, Wis. Filed October 3, 1921.

23,686.—*Title:* "ASSORTED CHOCOLATES." (For Boxes Containing Assorted Chocolates.) Milwaukee Paper Box Company, Milwaukee, Wis. Filed October 17, 1921.

23,687.—*Title:* "CHERRIESWEETS." (For Boxes Containing Cherries in Candy.) Milwaukee Paper Box Company, Milwaukee, Wis. Filed October 17, 1921.

23,688.—*Title:* "MILK MINTS." (For Boxes Containing Milk Mints.) Milwaukee Paper Box Company, Milwaukee, Wis. Filed October 17, 1921.

23,689.—*Title:* "HEATH QUALITY FRUIT CAKE." (For Boxes Containing Fruit Cake.) Milwaukee Paper Box Company, Milwaukee, Wis. Filed October 17, 1921.

23,690.—*Title:* "RED LION." (For Laundry Soap.) Wm. N. Minish & Son, Elkin, N. C. Filed October 8, 1921.

23,691.—*Title:* "DREADNOUGHT." (For Work-Shirts.) Walton N. Moore Dry Goods Co., San Francisco, Calif. Filed October 10, 1921.

23,692.—*Title:* "MACBETH'S OX GALL TABLETS COMPOUND." (For Cartons or Boxes Inclosing or Containing a Pharmaceutical Preparation or Compound Containing Ox-Gall.) John F. Murray, New York, N. Y. Filed July 28, 1921.

23,693.—*Title:* "MACBETH'S OX GALL TABLETS COMPOUND." (For Cartons or Boxes Inclosing or Containing a Pharmaceutical Preparation or Compound Containing Ox-Gall.) John F. Murray, New York, N. Y. Filed July 28, 1921.

23,694.—*Title:* "NICOMORS THE SUPER-GUM." (For Chewing-Gum.) The Nicomors Products Company, Cleveland, Ohio. Filed April 18, 1921.

23,695.—*Title:* "ROYAL ARCH." (For Grapes.) Owens & Collins Co., Lodi, Calif. Filed August 29, 1921.

23,696.—*Title:* "KNAPP'S OUTER INVESTMENT." (For Dental Investment Material.) M. F. Patterson Dental Supply Company, St. Paul, Minn. Filed August 12, 1921.

23,697.—*Title:* "KNAPP'S INNER INVESTMENT." (For Dental Investment Material.) M. F. Patterson Dental Supply Company, St. Paul, Minn. Filed August 12, 1921.

23,698.—*Title:* "INSTANT PILSENER BRAND." (For Malt and Hop Syrup.) Popel-Giller Co., Warsaw, Ill. Filed October 6, 1921.

23,699.—*Title:* "RIDERNET." (For Hair-Nets.) S. A. Rider Company, Chicago, Ill. Filed August 29, 1921.

23,700.—*Title:* "U S BRAND." (For Gravenstein Apples.) George A. Ross, Forestville, Calif. Filed August 29, 1921.

23,701.—*Title:* "OLD FASHIONED." (For Bread.) Saniwax Paper Co., Kalamazoo, Mich. Filed October 10, 1921.

23,702.—*Title:* "MOTHER'S." (For Bread.) Saniwax Paper Co., Kalamazoo, Mich. Filed October 10, 1921.

23,703.—*Title:* "SCHWAB'S NATURE SOAP." (For Toilet Soap.) Abraham Schwab, Memphis, Tenn. Filed August 31, 1921.

23,704.—*Title:* "SIMMONS MATTRESS." (For Mattresses.) Simmons Company, Kenosha, Wis. Filed October 10, 1921.

23,705.—*Title:* "ACEITE CALIENTE." (HOT OIL.) (For a Liniment Called Aceite Caliente.) Spanish Chemical Co., Springer, N. Mex. Filed May 31, 1921.

23,706.—*Title:* "LASHER'S GIRAFFE ELASTIC." (For All Kinds of Elastics and Elastic Braids.) Star Merchandise Company, New York, N. Y. Filed August 12, 1921.

23,707.—*Title:* "KENILWORTH." (For Tuna.) Stehli Packing Company, San Diego, Calif. Filed October 6, 1921.

23,708.—*Title:* "THE HOUSE THAT JACK BUILT." (For Doll-House.) Stoll & Edwards Co. Inc., New York, N. Y. Filed October 15, 1921.

23,709.—*Title:* "GAME OF MOTHER GOOSE." (For Game.) Stoll & Edwards Co. Inc., New York, N. Y. Filed October 15, 1921.

23,710.—*Title:* "GAME OF BLACK BEAUTY." (For Game.) Stoll & Edwards Co. Inc., New York, N. Y. Filed October 15, 1921.

23,711.—*Title:* "POLLY TECH." (For Ice-Cream.) Tech Food Products Co., Pittsburgh, Pa. Filed July 13, 1921.

23,712.—*Title:* "AMBROSIA." (For Wheat-Flour.) Texas Star Flour Mills, Galveston, Tex. Filed October 10, 1921.

23,718.—*Title:* "NICKEL PLATE." (For Coffee.) Townsend Wholesale Grocery Company, Maryville, Mo. Filed August 29, 1921.

23,714.—*Title:* "CALIFORNIA DATES." (For Dates.) Tropical Date Company, Incorporated, Thermal, Calif. Filed October 6, 1921.

23,715.—*Title:* "WELCH'S APPLE BUTTER." (For Apple-Butter.) The Welch Grape Juice Company, Westfield, N. Y. Filed August 27, 1921.

23,716.—*Title:* "FLEXO HARNESS.) (For Toy Harnesses.) Woodward & Cochey, Inc., Lynn, Mass. Filed October 6, 1921.

PRINTS

REGISTERED NOVEMBER 22, 1921.

5,831.—*Title:* "BIS-MAC." (For Advertising Purposes for a Non-Intoxicating Beverage.) THE BIS-MAC CO., Baltimore, Md. Filed June 14, 1921.

5,832.—*Title:* "CAPITOL FUEL." (For Advertising Purposes for Coal.) THE CAPITOL FUEL COMPANY, Cleveland, Ohio. Filed July 25, 1921.

5,833.—*Title:* "BOND BREAD." (For Advertising Purposes for Bond Bread.) GENERAL BAKING COMPANY, New York, N. Y. Filed August 3, 1921.

5,834.—*Title:* "TELLING MAMMA ABOUT JELL-O." (For Advertising Purposes for Jell-O, a Dessert Preparation.) THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Filed September 17, 1921.

5,835.—*Title:* "COLUMBIA DRY BATTERIES." (For Advertising Purposes for Columbia Dry Batteries.) NATIONAL CARBON COMPANY, INC., Cleveland, Ohio. Filed July 8, 1921.

5,836.—*Title:* "COLUMBIA STORAGE BATTERIES." (For Advertising Purposes for Columbia Storage Batteries.) NATIONAL CARBON COMPANY, INC., Cleveland, Ohio. Filed July 8, 1921.

5,837.—*Title:* "COLUMBIA STORAGE BATTERIES." (For Advertising Purposes for Columbia Storage Batteries.) NATIONAL CARBON COMPANY, INC., Cleveland, Ohio. Filed July 8, 1921.

5,838.—*Title:* "—like oranges? drink Orange-CrusH." (For Advertising Purposes for Orange Crush.) ORANGE CRUSH COMPANY, Chicago, Ill. Filed August 4, 1921.

5,839.—*Title:* "—like lemons? drink Lemon-CrusH." (For Advertising Purposes for Lemon Crush.) ORANGE CRUSH COMPANY, Chicago, Ill. Filed August 4, 1921.

5,840.—*Title:* "SCHRADER UNIVERSAL TIRE-PRESSURE-GAUGE SCHRADER UNIVERSAL INFLATING VAVLE." (For Advertising Purposes for Tire Pressure-Gages, and Inflating-Valves.) A. SCHRADER'S SON, INCORPORATED, Brooklyn, N. Y. Filed August 16, 1921.

5,841.—*Title:* "SINCLAIR MOTOR OIL IN ONE QUART CANS." (For Advertising Purposes for Sinclair Oils.) SINCLAIR REFINING COMPANY, Chicago, Ill. Filed August 4, 1921.

5,842.—*Title:* "BE FAIR TO YOUR CAR!" (For Advertising Purposes for Sinclair Oils.) SINCLAIR REFINING COMPANY, Chicago, Ill. Filed August 4, 1921.

5,843.—*Title:* "V. G. BAKING CO. PRETZELS CONES." (For Advertising Purposes for Pretzels and Cones.) V. G. BAKING COMPANY, Allentown, Pa. Filed August 19, 1921.

5,844.—*Title:* "HANDY GREASE RETAINERS." (For Advertising Purposes for Grease-Retainers.) FLOYD G. WITHROW, Grand Rapids, Mich. Filed July 20, 1921.

DECISIONS
OF THE
COMMISSIONER OF PATENTS
AND OF
UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

U. S. Circuit Court of Appeals—Sixth Circuit.

CLEMENTS v. KIRBY.

Decided June 7, 1921.

[274 Fed. Rep., 575.]

1. PATENTS—SUIT TO OBTAIN PATENT HELD NOT BARRED BY ABANDONMENT.

A suit under Revised Statutes section 4915, (Comp. St. sec. 9460) to obtain a patent, not commenced until more than a year after a decision of the Court of Appeals of the District of Columbia in interference proceedings, *Held* not barred because of abandonment of the application, under Revised Statutes, section 4894, (Comp. St. sec. 9433,) by "failure to prosecute the same within one year after any action therein," where complainant thereafter diligently prosecuted his application in the Patent Office, though that Office decided that it was concluded from further action therein by the decision of the court.

2. SAME—DECISION OF COURT OF APPEALS IN INTERFERENCE NOT CONCLUSIVE OF RIGHT TO FILE NARROWER CLAIMS, AND REFUSAL OF PATENT OFFICE TO HEAR NEW CLAIMS GROUND FOR SUIT IN EQUITY.

A decision of the court of appeals in an interference proceeding is not necessarily conclusive as to claims of the respective parties which were not put in issue, and the refusal of the Patent Office to consider narrower claims subsequently presented by the defeated applicant, on the ground that it was concluded by the court's decision, *Held* to justify a suit under Revised Statutes, section 4915, (Comp. St. sec. 9460.)

3. SAME—DECISION OF PATENT OFFICE HELD NOT APPEALABLE.

A decision of the Commissioner of Patents that he was concluded by the judgment of the court of appeals in interference proceedings and was without jurisdiction to consider further claims presented by the defeated applicant, *Held* not appealable, under Revised Statutes, section 4909, (Comp. St. sec. 9454.)

4. SAME—SUIT TO OBTAIN PATENT HELD MAINTAINABLE.

Where the Commissioner has refused to act on new claims presented by an applicant defeated in interference proceedings, on the ground of want of jurisdiction, the applicant is not required to resort to mandamus to compel his action as a condition precedent to the bringing of suit under Revised Statutes, section 4915, (Comp. St. sec. 9460.)

5. SAME—DECISION OF COURT OF APPEALS REVIEWABLE IN EQUITY SUIT.

The Court of Appeals of the District of Columbia, in respect to its action in patent cases, is one of the tribunals of the Patent Office, and its decision is in no sense a final decree which cannot be collaterally attacked, but is subject to review as to all matters decided in a suit in equity under Revised Statutes, section 4915, (Comp. St. sec. 9460,) though it will be followed unless the contrary is established by convincing testimony.

6. SAME—COMPLAINANT IN EQUITY SUIT HELD ENTITLED TO PATENT.

Complainant in equity to obtain a patent *Held*, under the evidence, entitled to patent for the invention covered by patent for a vacuum-cleaner issued to another.

7. SAME—DEFEATED PARTY LIABLE FOR COSTS IN EQUITY SUIT TO OBTAIN PATENT.

The provision of Revised Statutes, section 4915, (Comp. St. sec. 9460,) authorizing suits in equity to obtain a patent, that "all the expenses of the proceeding shall be paid by the applicant, whether the final decision is in his favor or not," applies only to those cases just previously mentioned therein, where there is no opposing party and the bill is served on the Commissioner only.

APPEAL from the District Court of the United States for the Eastern Division of the Northern District of Ohio; D. C. Westenhaver, judge.

Suit in equity by George Clements against James B. Kirby. Decree for defendant, and complainant appeals. Reversed, and decree directed for complainant.

Mr. Peter S. Grosscup (*Messrs. Parker & Carter* and *Mr. Francis W. Parker* on the brief) for the appellant.

Mr. Charles Neave (*Mr. H. E. Smith* and *Mr. Merrell E. Clark* on the brief) for the appellee.

Before KNAPPEN, DENISON, and DONAHUE, Circuit Judges.

DENISON, *Cir. J.*:

Bill filed under Revised Statutes, section 4915, (Comp. St. sec. 9460,) to procure for Clements the patent issued to Kirby May 23, 1916, No. 1,184,469. Clements and Kirby were contesting applicants in the Patent Office with reference to an improvement in vacuum-cleaners, whereby the suction-intake could be diverted from the regular nozzle to a more distant hose-connected nozzle. The primary elements of such a structure are the pump or fan chamber and the suction-chamber. The two are divided by a partition having an opening. The suction-chamber is provided with a suitable intake-nozzle, and the pump-chamber has a tangential outlet to the dust-receptacle. By the suction effect of the pump, the dust is pulled through the intake-nozzle suction-chamber and the partition-opening into the pump-chamber, and is therefrom blown out to the dust-receptacle. Each of the contesting applicants improved this old structure by making an opening in the outer shell of the suction-chamber, directly opposite and registering with the partition-opening, and inserting through the outer shell-opening and tightly into the partition-opening an open-ended tube for a hose connection, whereby the suction pull was cut off entirely from the normal suction-chamber, and this function transferred to the suction nozzle at the outer end of the hose. This improvement has demonstrated its utility and has been largely adopted.

It is quite obvious that the possible presence of the inserted tube is an essential part of this inven-

tion; for, without it, the invention did not exist. How this conception should be formulated is a matter of arbitrary rule; and while such rules are convenient or even necessary in the Patent Office practice, their application ought not to go to such an extent as to divert the patent from the true inventor to another. When the matter of formulation is considered in connection with the structure here described, it appears that the Patent Office procedure forbade uniting in the same claim two elements which do not simultaneously coöperate, but which have alternative and successive use. Accordingly, it was required that the inserted hose-tube should not be named as a positive element of the claims, but that the inventive thought should be expressed in terms of the basic structure adapted to receive the inserted tube. Whatever language is selected for this purpose, confusion at once arises. If it has the broadest meaning, referring to any construction having oppositely-disposed openings into which such a tube might have been inserted, without regard to whether the desired transfer of function was accomplished, it at once is apparent that there can be no valid patent to either contestant, because so broad a construction would cover earlier structures. If it is confined to a precise adaptability—which may be called the moderately broad construction—to receive such a particular tube in such a manner as to operate successfully for the purpose now desired, there might or might not be patentability, depending (perhaps) on whether any earlier such precise adaptability was analogously purposeful or merely accidental. If it is given the narrow meaning, implying that a suitable tube is present ready for use and that provision for changing is the essence of the invention, patentability is not challenged upon this record—though it is difficult to comprehend how there is substantial distinction between the optional insertion of the tube thereby implied and the actual presence of the tube as a named element in the combination. It is not easy to see why a claim should not have been permitted including both an element like this removable tube, which has an active function when it is in place, and an element like the suction-chamber which coöperates with the tube to furnish its setting, although the chief function of the suction-chamber is temporarily dormant. However that might be (a subject later mentioned), it is this confusion—which later became worse confounded—which has caused the trouble in this case.

Clements was the senior applicant. His attorneys conceived that the inserted tube was an element of his invention, and drew claims upon this theory. They were rejected, and the Examiner said:

> Applicant can only cover, in this application, such a construction, complete in itself without any additions to or subtractions from it, as adapts it to any desired class of work or to such classes of work as may be done by it by the mere changes of adjustment of the parts, without removing any of the parts or adding other parts or substituting one part for another.

The applicant amended the claim without prejudice, insisting that the objections went only to the form, and not to the substance, of the invention. Eventually, the applicant and the Examiner agreed upon the proper *form*, as expressed in claims 1 and 2 quoted in the margin,[1] and they became the only claims remaining in the application.

[1] 1. A vacuum cleaner consisting of a casing provided with a pump chamber and a suction chamber separated therefrom by a dividing wall provided with an opening, the walls of the suction chamber terminating in a suction nozzle and the suction chamber provided with an opening registering with the opening in the dividing wall and adapted to receive a cap closing it or a hose tube extending into the inner opening, substantially as set forth.

2. A vacuum cleaner comprising a pump chamber, a suction chamber having an outlet opening to the pump chamber, a suction nozzle and an inlet opening, and a removable closure for said inlet opening, said openings adapted to receive a connecting inlet tube.

In the meantime, Kirby had come into the Office, the structure of one of his drawings being substantially identical with Clements in the respects now involved. His claim which called for the suction-chamber with its nozzle and the hose with its connection, was rejected as an aggregation. He then adopted, at the suggestion of the Office, Clements's claims 1 and 2, and an interference was declared with these two claims as the two counts of the issue. The parties both regarded the use of the substitutable hose connection, passing through the suction-chamber and cutting it off, as the invention in controversy. Kirby's preliminary statement (his pleading on the interference issues) claimed conception in May, 1911, followed by reduction to practice and filing of application on August 19, 1911. Clements claimed conception in October, 1910, reduction to practice in January, 1911, followed by application filed June 14, 1911. The proofs seem to show without question that Clements had an operative, experimental device in February, ordered castings in April, and made his first commercial machines as early as May, 1911. These embodied the alternative hose connection. Kirby testified that in September, 1910, he was manufacturing a vacuum-cleaner which had the customary opening in the dividing-wall between the suction-chamber and pump-chamber, and which had in the outer wall of the suction-chamber and directly in line with the partition-opening, a removable cap; this removable cap being for the purpose of permitting access to the interior for cleaning purposes. Later and about December, 1910, he made a hole in the cap and fastened therein a tube or suction-hose and closed his suction-chamber nozzle by a separate plug. He says:

> Then, later on, by extending this cap in far enough to reach the dividing wall, it automatically shut off the suction nozzle and connected the hose with the fan chamber. This idea of extending the cap in deeper was the thought that I had about the 1st of May, 1911.

Obviously, upon the preliminary statements and this testimony and the conception of the meaning of the issue held by both parties, there was no escape from a decision in favor of Clements. Some testimony taken was said to have suggested to Kirby the question whether the issue ought not to be interpreted broadly enough to reach the construction made by him in September, 1910. Accordingly, he proved this construction more fully in rebuttal, and on October 1, 1913, applied to the Examiner of Interferences to transmit the file to the Primary Examiner in order that he might amend the declaration of interference so as to remove the existing indefiniteness. The Examiner of Interferences reviewed the evidence and held that the Primary Examiner, in formulating the claims to be allowed and the issue, had considered the invention as that construction which included "provision for changing from one kind of cleaner to another;" that the claims of the issue were neither indefinite nor alternative; and that Kirby's motion was unduly delayed. He therefore denied Kirby's application; and the Commissioner, on appeal, affirmed the action of the Examiner of Interferences, referring to the obvious fact that if the issue should be amended, and Kirby's statement dated back, Clements would have the right to take further testimony, since there would then be an issue upon which he had never been heard.

The interference itself then came on for hearing before the Examiner. He first considered Kirby's motion to amend and date back his preliminary statement, and denied it, both on account of the delay and because the evidence which Kirby had taken was not sufficient to sustain his case, even upon the broad interpretation of the issue which he wished to have adopted. In substance, the Examiner gave to the claim what we have called the moderately broad

construction, and held that Kirby's request to amend his statement was immaterial, since even with this relatively broader construction, Kirby must fail on the proofs—Kirby announcing that he did not care to take further proofs. Proceeding to the merits upon this moderately broad issue, the Examiner awarded priority to Clements, upon proofs which seem to be too clear for controversy. On appeal, the Board took the third or narrowest view of the meaning of the issue, and observed that with the broadest view, which called merely for the existence of the two openings in general alinement, a patent must be refused, as the Primary Examiner had also held, because of earlier patents showing that general construction. The Board recommended that, after priority was determined, the successful applicant should be required to use a formulation including the removal tube as a positive element, in order that there might be no misunderstanding as to the scope of the invention. Proceeding to the subject of priority, and with this view of the issue, the Board also affirmed the award of priority to Clements—as, indeed, it must.

Thereupon Kirby, insisting that the broadest construction was the proper one and that the Board had held it unpatentable, asked that the matter be remanded to the Primary Examiner in order to redraft the issue so as to confine it to what was patentable. The Commissioner denied this application, for the reason that, when one construction of claims would make them unpatentable and another would make them valid, the latter construction is the one that should be adopted. Upon Kirby's appeal from the decision of the Board denying the motion to amend and awarding priority to Clements, the Commissioner affirmed the Board. He held that the narrower construction confining the invention to a structure fitted for and intended for receiving the removable hose-tube was the right construction; that the broadest one (and probably he means the moderately broad one) would make the invention unpatentable; and that, with this view, there was no occasion for Kirby to amend his primary statement, and the case against him on priority was clear. There was then an appeal to the court of appeals of the District. Error was assigned because Kirby should have been allowed to amend his preliminary statement and because priority should have been allowed to him. The court of appeals, on May 28, 1915, filed its opinion in which it gave its attention mainly to the distinction between the broad and narrow constructions of the issue, and held that it should have, for interference purposes, the broader construction, and concludes:

> It is apparent that appellant's motion to amend his preliminary statement would have been granted, but for the interpretation placed upon the claim, and we are of the opinion that it should have been. His evidence very clearly establishes the fact that, several months prior to the earliest date which may be given the appellee, he manufactured and sold cleaners answering the requirements of the counts as we have construed them. The decision is therefore reversed and the case returned to the Patent Office for appropriate action.

Thereupon the various tribunals of the Patent Office took the view that the interference had been finally decided by the court of appeals, and that an award of priority to Kirby had been made by that court, and that a patent must issue to him, and not to Clements, containing the claims which formed the issues in the interference. Clements moved that the claims be amended, so as to specify the narrow construction, and that priority be thereupon awarded to him. The Commissioner denied this motion upon the ground that the court of appeals decision was conclusive, both as to what was decided and as to what might have been decided. Clements then moved to dissolve the interference upon the ground that under the broad construction the issue was unpatentable. The Commissioner refused to accept this view, holding again that the Patent Office had no further authority to consider the question of priority, and that there was no longer any existing interference. Clements then amended his application, inserting claims positively including the hose connection as an element. These claims were rejected on the interference record. Clements appealed to the Board, and the Board affirmed. Clements appealed to the Commissioner, and the Commissioner affirmed. In the meantime, and while this last appeal was pending before the Board, and on the 22d day of May, 1916, the patent issued to Kirby, containing the claims which had been in interference and five others, which included the removable tube as a positive element; and Clements, on June 16, 1916, filed this bill in the court below, under Revised Statutes, section 4915, (U. S. C. S. sec. 9460.)

The parties made a stipulation that a copy of the interference record should be received in evidence, and, together with copies of patents and other proceedings, should constitute the entire record in the case. It being thus ready for final hearing, Kirby made a motion to dismiss, upon two grounds: first, that such a bill was maintainable only after the refusal of the patent by the court of appeals, which refusal the bill did not allege; and, second, that, if there had been such refusal, Clements's proceeding in the Patent Office was abandoned under Revised Statutes, section 4894, (U. S. C. S. sec. 9438,) by failure to prosecute within a year after the last action. The bill was permitted to be amended to allege, in terms, a refusal by the court of appeals through the proceedings which had been recited, and the court postponed the motion for argument until the final hearing. Upon such hearing, the bill was dismissed, because not filed within a year after the action of the court of appeals, and with an opinion which did not indicate that the trial court had considered any other question.

The result reached by the Patent Office tribunals has worked a plain miscarriage of justice. It is beyond reasonable doubt that Clements, and not Kirby, was the first to use the inserted tube to shift the intake-nozzle to the distant position, or to think of using it, or to make a device which accomplished this result. It had been held by the Primary Examiner, by the Examiner of Interferences, by the Board, and by the Commissioner that this was the only patentable invention involved, and this conclusion was not criticised by the court of appeals; yet the patent therefor has been issued to Kirby and refused to Clements.

The question chiefly considered by the court below, and to which the arguments of counsel are largely directed, is whether an applicant, who is refused a patent by the Commissioner, must exhaust any existing remedy by appeal to the court of appeals, before he may resort to his remedy under section 4915. It is claimed for Clements that a resort to appeal is optional by the very words of the statute, "refused, either by the Commissioner *or* by the * * * court," that the legislative history of the law confirms this view, and that the decisions to the contrary are *obiter* or ill-considered; while it is contended for Kirby that we should apply what is called the distributive theory, and hold that, in those cases where there is no appeal from the action of the Commissioner to the court of appeals, his final action should be treated as the refusal contemplated by section 4915, while, in those cases which may be appealed, this remedy must be followed before the other remedy can be invoked. See *Smith* v. *Muller*, (C. C.,) (75 Fed., 612;) *McKnight* v. *Metal Co.*, (C. C.,) (128 Fed., 51). We do not find it necessary to decide this question, and for the purposes of this opinion only we accept the distributive theory; and we come to consider the character of the action which the court of appeals took in this case.

It is not clear, on this fact [illegible] whether the court of appeals intended to [illegible] what we have called the [illegible] of the [illegible] We have concluded that the latter was the true intent. It seems quite obvious that there was nothing patentable in merely [illegible] and [illegible] claims which, under the construction given to the [illegible] by the Patent Office tribunals had all held that this was not new with [illegible] party, and that to give the term this broadest construction would [illegible] and the Commissioner and apparently [illegible] broad construction of an interference issue would make it unpatentable and the narrow one would make it patentable, the narrow should be taken as the true meaning. The court of appeals did not criticise any of these conclusions. The cases upon which it relied, (*Miet* v. *Young*, 29 App. D. C., 251; *Lindmark* v. *Hodgkinson*, 31 App. D. C., 612,) to the effect that the broader construction should be adopted, did not disclose any such situation as here existed, but pertained to situations where there was a possible choice between broad and narrow without destroying the whole subject-matter.

A claim to that precise adaptability, which would permit the insertion of the tube so as to make a fairly close joint at each opening, and thereby, of itself, cut off the suction from one nozzle and transfer it to the other, was not anticipated upon this record, and that limitation is fairly called for by the language of the issue. The two openings do not "register," nor is the inner opening "adapted to receive * * * a hose tube extending into the inner opening," nor are the two "openings adapted to receive an inlet tube" in the sense which the context fairly requires, unless the inner opening is not only in suitable alinement with, but is at least no larger than, the outer one; for, if it is larger, no tube which can pass through the outer opening can be received in or extended into the inner opening in such manner as to cut off the suction and accomplish the sole object of the invention. True, the fan suction might have been powerful enough, so that a leak around the outside of the tube when it entered the inner opening would have only weakened and not destroyed the suction pull at the distant nozzle; but substantially to cut off the primary nozzle was the whole object of the invention, and this required the close adaptation and registration. A consideration of all the circumstances, aided by the strong presumption that the court of appeals did not intend to do a vain thing, requires that this meaning should be given to its reference to "the broadest interpretation which they will reasonably support" and to the structure which "would readily permit the change from one kind of cleaner to another."

(1) We must have grave doubt whether the action of the court of appeals was intended to be an award of priority to Kirby upon an issue as to which Clements could persuasively claim he had never been heard, or to be anything more than a remand to permit an amendment of the pleadings and further proceedings thereon; but we pass that question and assume that, as Kirby contends, the action of the court is rightly to be constructed as an award of priority upon the two claims involved, and as final, in the sense that the Patent Office could only execute and not review. Was, then, the filing of this bill barred by the delay of more than one year between May 28, 1915, and June 16, 1916? There is no limitation statute which provides that a bill, under section 4915, based upon a refusal by the Commissioner or the court of appeals, must be filed within one year after such refusal—as counsel in argument seem more or less to assume. The only limitation of this character results from the [illegible] [illegible] [illegible]

lost, was error. The court below did not consider the merits, but that does not affect our duty to do so. The record was complete and there was a final hearing. The settled policy of the law is against piecemeal appeals, and they are approved only in special cases. We see no reason why the case should go back for further hearing. It is true that the physical exhibits used in the interference were not shown to the court below, and those for Kirby have not been sent to this court; but the interference record makes it clear that they are cumulative and of no controlling importance.

(5) It is well established that the court appealed to under section 4915 has full jurisdiction to re-examine all matters determined by the court of appeals. The latter becomes, for this purpose, one of the tribunals of the Patent Office, and its decision is in no sense a final decree, which cannot be thus collaterally attacked, though it will be followed unless the contrary is established by convincing testimony. (*Morgan* v. *Daniels*, 153 U. S., 120; 14 Sup. Ct., 772; 38 L. Ed., 657; *Coursen* v. *O'Connor*, (C. C. A., 7,) 227 Fed., 390, 394; 142 C. C. A., 414; and see *Baldwin Co.* v. *Howard Co.*, (Apr. 11, 1921,) 254 U. S. ——; 41 Sup. Ct., 405; 65 L. Ed. ——.)

(6) It is clear to us that, upon the moderately broad issue as we have defined it, priority should have been awarded to Clements, and that the record permits no other result. Kirby himself testifies that in his structure of September, 1910, the inner opening was so much larger than the outer one (five-sixteenth of an inch in diameter) that any tube which could have been inserted through the latter into the former would not have cut off the suction-chamber, and that, about the 1st of May, 1911, he first thought of accomplishing the object of the invention in controversy, and he did so by extending the tube across the suction-chamber and by enlarging the outer opening so as to make it the same size as the inner one, so that the tube would fit both. Thus he, for the first time, conceived and reduced to practice the "registering" and the "adaptability" which are called for by the claims, even with the moderately broad construction which we think the court of appeals gave to them. Clements's priority in this respect was found by all the Patent Office tribunals and is hardly in dispute. It seems that the court of appeals overlooked the insufficiency of Kirby's construction of September, 1910, in the respect to which we have referred; and counsel for Clements say, in effect, that they did not call the court's attention to it because not believing that it could become material.

If the patent had not issued to Kirby, there might be embarrassment about granting relief to Clements as to his narrower claims, because they would not have been subjected to that revision and modification which ought to precede the action of the court, and mandamus might be necessary; but Clements is asking precisely and only the claims which the Patent Office has found properly formulated and allowable, as against all prior rights, and has included in the patent issued to Kirby. They are seven in number. The first two are those which were in interference. The remaining five are different formulations of the narrower conception, which include the hose connection or tube as a positive element. The formal objections of the Patent Office on the ground of aggregation have been overcome, either by a change of opinion on its part or by some particular wording which avoids the objections—it is not material to determine which.

(7) The decree should be reversed, and the record remanded, with instructions to enter a decree in favor of Clements pursuant to this opinion. The costs of this court and of the court below should go against Kirby. We think that the provision of section 4915, that—

all the expenses of the proceeding shall be paid by the applicant whether the final decision is in his favor or not,

applies only to those cases which had just been mentioned, viz., "where there is no opposing party" and the papers are served on the Commissioner only.

ADJUDICATED PATENTS.

(U. S. C. C. A. N. Y.) The Munger patent, No. 888,568, for demountable rim for automobile-tires, *Held* valid and infringed. *Munger* v. *Perlman Rim Corporation*, 275 Fed. Rep., 21.

(U. S. D. C. R. I.) The Sampson design patent, No. 55,428, for design for collar-holder, *Held* valid and infringed. *Sampson* v. *Silverman*, 275 Fed. Rep., 123.

Patents Nos. 1,306,219 to 1,306,953.

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Interference Notices.

Department of the Interior,
United States Patent Office,
Washington, D. C., November 9, 1921.

Adolph Fuchs, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Joseph R. Pellegrino, Massena, N. Y., for patent and patent granted December 16, 1919, No. 1,325,193, to Adolph Fuchs, 238 Holbrook avenue, Detroit, Mich., and a notice of such declaration sent by registered mail to Fuchs at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Adolph Fuchs, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the Official Gazette for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

Department of the Interior,
United States Patent Office,
Washington, D. C., November 9, 1921.

Russel & Miller Milling Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Edgar O. Challenger, of Produce Exchange, New York, N. Y., for registration of a trade-mark and trade-mark registered December 24 1895, No. 27,508, to Russel & Miller Milling Co., of Valley City, N. D., and West Superior, Wis., and a notice of such declaration sent by registered mail to said Russel & Miller Milling Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Russel & Miller Milling Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the Official Gazette for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

Department of the Interior,
United States Patent Office,
Washington, D. C., November 21, 1921.

Julius Medvecsky, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the patent of Francis W. Borkes, 1006 East 27th street, Cleveland, Ohio, granted Nov. 4, 1919, No. 1,320,528, and application for patent of Julius Medvecsky, 95 Wilbur avenue, Long Island City, N. Y., and a notice of such declaration sent by registered mail to Medvecsky at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Medvecsky, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the Official Gazette for three consecutive weeks.

KARL FENNING,
Assistant Commissioner.

Department of the Interior,
United States Patent Office,
Washington, D. C., November 23, 1921.

Travers Bros. Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Columbian Rope Company, Auburn, N. Y., for registration of a trade-mark and trade-mark registered Mar. 12, 1901, No. 36,034 to Travers Bros. Co., 107 Duane street, New York, N. Y., and a notice of such declaration sent by registered mail to Travers Bros. Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Travers Bros. Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
First Asst. Commissioner.

NOTICE—DESIGN PATENTS.

When an application for a design patent is found allowable, the patent will be granted for the term asked in the application papers unless specific request has been made for notice prior to allowance so that the term may be extended. Hereafter the Office will delay allowance and notify the applicant ONLY in cases where a specific request is filed.

Condition of Applications Under Examination at Close of Business November 19, 1921.

Room No.	Divisions, Examiners, and subjects of inventions. (Oldest new case, Nov. 5; oldest amended, Dec 24.)	Oldest new application and oldest action by Assistant Commissioner since remand. New.	Amended.	No. of pending cases in division.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders	June 18	June 10	819
136	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Jan. 17	Apr. 8	1,719
176	3. RICH, WM. J., Electric Heating and Electrolytic; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Mar. 2	Dec. 24	904
284	4. MERRITT, A. D., Conveyors; Conveyors, Fluid Current; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Nov. 29	June 1	1,712
167	5. MAGNAN, J. P., Book-Making; Bands, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Feb. 1	Feb. 25	963
318	6. LEWERS, A. W., Bleaching and Dyeing; Chemically Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Apr. 18	June 17	994
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes.	Apr. 11	June 20	2,220
133	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Stove Furniture; Supports.	Aug. 13	Oct. 14	622
321	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Jan. 8	Aug. 8	1,068
296	10. MITCHELL, T. H., Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	May 10	Sept. 6	1,109
154	11. ARMSTRONG, E. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Hosiery; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	July 23	July 27	468
322	12. PIERCE, P. F., Machine Elements.	May 2	Aug. 15	1,091
239	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Dec. 15	Sept. 20	1,765
223	14. BRUMBAUGH, N. J., Compressed Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Feb. 10	Aug. 11	994
208	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Nov. 5	Mar. 10	1,783
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony.	Dec. 2	Mar. 1	1,765
207	17. RAFTER, G. S., Casting, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Mar. 14	June 17	1,108
220	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Jan. 15	Feb. 16	1,895
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Jan. 10	May 2	1,028
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure-Fasteners; Cutlery; Dentistry; Lasts and Lasting; Sewing; Undertaking.	May 18	July 6	1,508
212	21. THURBER, W. L., Brakes and Gear; Cordage; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Mar. 20	July 1	707
240	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making.	June 13	Sept. 8	836
317	23. GROESBECK, W. D., Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Jan. 17	July 8	844
144	24. DARBY, J. J., Apparel; Apparel Appendages; Garment Supporters; Sewing-Machines.	Feb. 19	June 13	1,094
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Aug. 22	Aug. 30	319
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime Mover Dynamo Plants.	Apr. 25	June 9	794
214	27. ANDERSON, L. S., Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus.	Apr 18	July 12	1,003
235	28. BENSON, A. B., Internal-Combustion Engines.	Feb. 7	May 13	1,561
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Checks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Feb. 26	Aug. 15	797
182	30. SULLIVAN, M. R., Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines.	Apr. 23	Sept. 20	1,263
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Dec. 6	Feb. 4	2,607
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange.	Feb. 1	Aug. 18	977
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	May 10	June 8	742
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service, Track-Sanders; Vehicle-Fenders.	Aug. 18	Sept. 23	315
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	Sept. 3	Sept. 12	711
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	June 20	June 2	1,836
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers.	Mar. 5	Mar. 10	1,606
278	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	May 26	May 31	1,219
230	39. COWLES, A. W., Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Nov. 18	Feb. 23	2,022
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Jan. 10	Apr. 4	2,406
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels.	May 27	July 9	856
114	42. CUTTING, H. G., Electrical Conduits and Housings; Electric Signaling; Electric Lamps.	Dec. 15	Jan. 13	1,899
262	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Jan. 12	Feb. 10	1,665
253	44. SHAFFER, C. H., Air-Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration Ships.	Feb. 5	Sept. 28	807
279	45. GILES, A. H., Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring-Devices.	Apr. 20	July 18	1,202
223	46. WOLCOTT, C. L., Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Apr. 7	June 20	1,197
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid Pressure Brake and Analogous Systems.	Mar. 18	July 1	1,162
118	48. ROEPKE, C. B., Electricity Conductors; Electricity, General Applications.	Jan. 4	Feb. 1	1,809
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, JR.			
	Trade-Marks	Dec. 10	Aug. 1	4,188
	Designs	Mar. 21	Apr. 1	2,261
	Labels and Prints	Oct. 26	Nov. 1	262

Total number of applications awaiting action, excluding Trade-Mark division, 48,676; Trade-Mark division, 6,771.

PATENTS

GRANTED NOVEMBER 29, 1921.

1,398,219. BEARING. EDWARD GOODRICH ACHESON, Jr., Niagara Falls, N. Y. Filed Jan. 31, 1921. Serial No. 441,165. 8 Claims. (Cl. 64—10.)



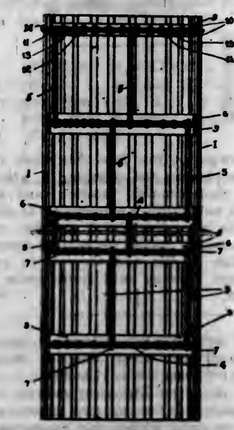
1. A method of forming bearings of the self-lubricating type, which consists in casting the bearing about an inlay of vulcanized fiber impregnated with graphite.

1,398,220. BEARING. EDWARD GOODRICH ACHESON, Jr., Niagara Falls, N. Y. Filed Jan. 31, 1921. Serial No. 441,164. 8 Claims. (Cl. 64—10.)



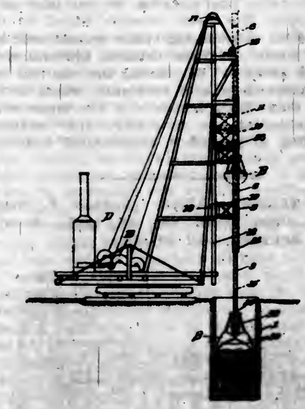
1. A bearing of the character specified, having recesses in the inner face thereof, and filling members of vulcanized fiber impregnated with graphite held in the recesses.

1,398,221. CONSTRUCTION OF CAISSONS, COFFERDAMS, AND THE LIKE. CHARLES S. BOARDMAN, Buffalo, N. Y., assignor to Lackawanna Steel Company, Lackawanna, N. Y., a Corporation of New York. Filed Dec. 18, 1919. Serial No. 345,726. 8 Claims. (Cl. 61—34.)



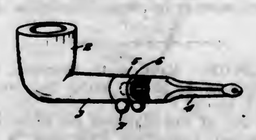
1. A structure of the character described comprising an inclosing wall of steel sheet piling sections and bracing members therefor and means to detachably secure the piling sections to the bracing members to permit of the assembling and handling thereof as a unitary structure and to thereafter permit of driving the piling sections independently, substantially as described.

1,398,222. EXCAVATING-BUCKET AND OPERATING MEANS THEREFOR. FREDERICK WILLIAM BOND, Ransomville, N. Y. Filed Jan. 19, 1920. Serial No. 352,369. 5 Claims. (Cl. 37—30.)



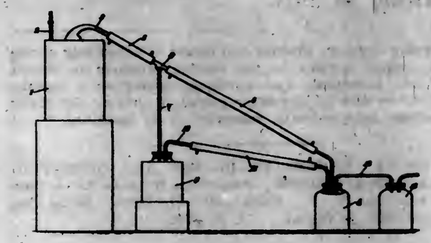
1. An excavating bucket comprising a plurality of movable segments or blades suitably fulcrumed, a supporting cylinder member centrally arranged with relation thereto, inwardly directed operating levers rigidly secured to the respective bucket blades adjacent their upper marginal edges, a centrally arranged operating cylinder fitted to move vertically within the supporting cylinder, connections between the operating cylinder and the bucket levers and supporting links pivotally connected to the supporting cylinder and to the operating levers and operating sheaves supported respectively by the supporting cylinder and operating cylinder and centrally arranged there within, substantially as described.

1,398,223. PIPE-REST. FREDERICK E. CHAPMAN, Middletown, Conn. Filed Dec. 26, 1919. Serial No. 347,307. 1 Claim. (Cl. 131—12.)



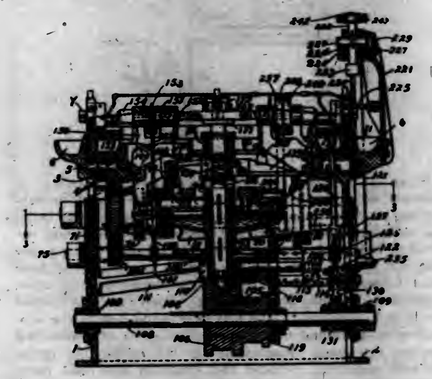
A pipe including a ferrule having two rests of substantially spherical form and comprising substantially an integral part of said ferrule, the curves of said rests merging directly with the curve of the ferrule, thereby forming an acute angle at the meeting points of the two surfaces.

1,398,224. PROCESS FOR PRODUCING HIGHLY-CONCENTRATED HYDROCHLORIC ACID. JOHN FABIAISSON, Elizabeth, N. J., assignor to The Kalbfleisch Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 9, 1918. Serial No. 261,784. 8 Claims. (Cl. 23—1.)



1. The process of producing highly concentrated hydrochloric acid which comprises distilling hydrochloric acid of a strength above 14° Bé., cooling the resulting vapors to form a hydrochloric acid condensate whose HCl content is less than the HCl content of the vapor mixture, and then subjecting the remaining vapor mixture to further cooling to produce a concentrated hydrochloric acid.

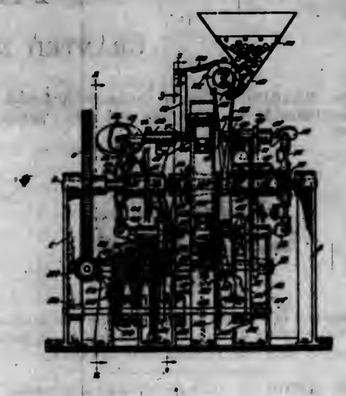
1,398,225. TURRET-LATHE. NATHAN F. FRETTER, Cleveland, Ohio. Filed Aug. 18, 1917. Serial No. 186,859. 29 Claims. (Cl. 29—38.)



1. In a machine of the character set forth, the combination of a tool, mechanism for operating the tool, a work holder, an actuating member which, when moved in one direction and in a given plane will create relative movement between the tool and work holder, and means for moving said member in reverse directions in different planes.

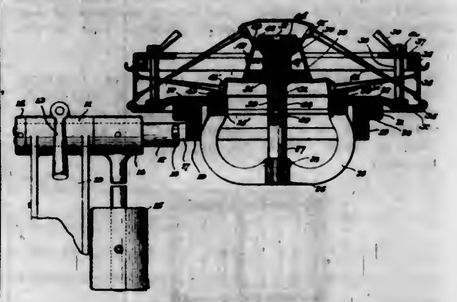
1,398,226. LATHE. NATHAN F. FRETTER, Cleveland, Ohio. Filed Dec. 5, 1917. Serial No. 205,485. 18 Claims. (Cl. 29—38.)

1. In apparatus of the character set forth, the combination of opposed supporting structures, a series of spindles rotatably and reciprocably sustained by each structure, the spindles of each series being disposed about a circle, means for driving the spindles, a cam for moving each spindle longitudinally, a shaft carrying each cam and radially disposed with respect to the circular disposition of the spindles, a shaft parallel to the spindles and situated centrally thereof, gearing through which the latter shaft drives each of the former shafts,



and a tool carried by each spindle and opposed to the tool of the other and between and in operative relation to which tools a piece of work is adapted to be supported.

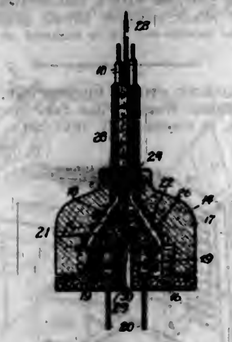
1,398,227. APPARATUS FOR ASSEMBLING WIRE WHEELS. LEWIS FINN, Philadelphia, Pa., assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 18, 1919. Serial No. 324,527. 18 Claims. (Cl. 29—87.)



1. In an apparatus of the class described, the combination of a table, means for clamping a wheel rim on said table in a predetermined position, and means for clamping a wheel hub, having a plurality of spoke seats formed therein, in a predetermined position relative to said rim, said clamping means permitting access to the inside of said hub at the end thereof, to permit the insertion of spokes through said spoke seats from the inside of said hub.

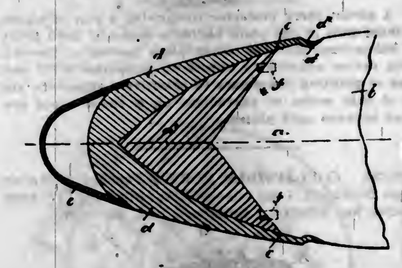
1,398,228. ATTACHMENT-PLUG. BERTRAM J. GRIGSBY, Chicago, Ill. Filed Jan. 12, 1918. Serial No. 211,530. 11 Claims. (Cl. 173—322.)

1. Attachment plugs for electrical devices comprising a terminal receptacle embracing two members of insulating material between which the conductors of the cord are adapted to be confined, said members being provided with opposing gripping salients spaced longitudinally of said cord, and the salients of the two members being formed on respective external and internal



tapered portions thereof, with means to force said members toward each other and against said conductors.

1,398,229. ARMOR-PIERCING PROJECTILE. ROBERT ABBOTT HADFIELD, Westminster, and ALEXANDER GEORGE MCKENZIE JACK, Sheffield, England. Filed Dec. 17, 1918. Serial No. 267,202. 10 Claims. (Cl. 102—28.)



1. An armor piercing projectile having a pointed ogival shaped head made in separate parts fitted together one in front of another, the rear part being formed in one piece with the body of the projectile and having its peripheral surface of ogival shape flush with and forming a continuation of the ogival surface of the remaining front portion of the head of the projectile.

1,398,230. MILKING MACHINERY. SELDEN H. HALL, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 3, 1920. Serial No. 356,000. 4 Claims. (Cl. 31—73.)



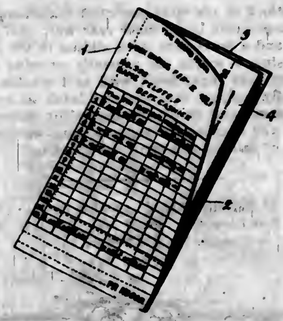
1. A vacuum pipe line for a milking system comprising an air pipe adapted for connection at one end to a vacuum pump and at the other end to a milking machine unit, of a coupling interposed in said air pipe and adapted to prevent the passage of contaminating liquids or solids to the vacuum pump, said coupling comprising means to deflect the flow of air, a receptacle at the air deflecting point wherein said contaminating liquids or solids are trapped, and means to reduce the speed of the air outgoing from the receptacle below the speed of the incoming air.

2. A vacuum pump line for a milking machine system comprising an air pipe line composed of an air pipe section adapted for connection with the milking machine unit and an air pipe section adapted for connection with a vacuum pump, of a coupling having an inwardly and downwardly extending inlet connected with the first air pipe section and an upwardly and outwardly extending outlet of larger capacity than said inlet connected with the second air pipe section, and a receptacle suspended from said coupling wherein the flow of air is deflected and which functions as a trap to prevent the passage of contaminating liquids or solids from the first air pipe section to the second air pipe section.

3. The combination with a vacuum pipe line for a milking system, having a vacuum pump and a milking machine connection, of an air deflector in said pipe line between the pump and said milking machine connection, comprising a coupling having an inwardly and downwardly extending inlet and an upwardly and outwardly extending outlet of larger capacity than said inlet, means for connecting the vacuum pipe to said inlet and outlet to form air-tight joints, a removable receptacle suspended from said coupling having a receiving chamber communicating with the lower ends of the inlet and outlet, and means for forming an air-tight joint between the receptacle and coupling.

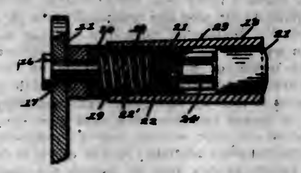
4. The combination with a vacuum pipe line for a milking system, having a vacuum pump and a milking machine connection, of an air deflector in said pipe line between the pump and said milking machine connection, comprising a coupling having an inwardly and downwardly extending inlet and an upwardly and outwardly extending outlet, means for connecting the vacuum pipe to said inlet and outlet to form air-tight joints, a removable receptacle suspended from said coupling having a receiving chamber communicating with the lower ends of the inlet and outlet, the cross-section of said outlet being of gradual decreasing area in the direction of the flow of air whereby the velocity of the outgoing air from the chamber is reduced below the speed of the incoming air to prevent sucking foreign matter from the chamber, and means for forming an air-tight joint between the receptacle and coupling.

1,398,231. TIME-RECORD FOLDER. CHRISTIAN H. HANSEN, Norfolk, Va. Filed Dec. 6, 1920. Serial No. 428,655. 2 Claims. (Cl. 285—1.)



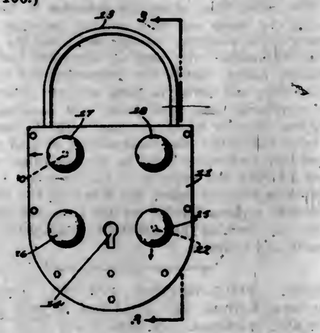
1. The combination with a folder bearing an appropriate imprint adapted to receive a time card record thereon, of a pay envelop adapted to be inserted in said folder, said envelop having an independent differently printed time record thereon covering a period of time similar to the record on said folder whereby to balance the record on said folder, and bearing data to identify it with said folder.

1,398,282. LOCKING DEVICE FOR OPERATING-HANDLES. MAXIM JACOBSKY, New York, N. Y. Filed Mar. 23, 1921. Serial No. 454,694. 3 Claims. (Cl. 70—128.)



1. A lock of the character described comprising a stationary fork, a controller lever, a hollow handle having a reduced end, a bolt passed into said handle and secured to said lever, a sleeve within said handle connected therewith, means for normally holding said handle on said bolt in its forward position with its reduced end between the prongs of said fork, means for locking the handle in this position, and means for permitting a withdrawal of said handle and of its reduced end from between the prongs of said fork, for allowing an operation of the controller by said bolt and handle.

1,398,233. PADLOCK. ANDY KULIKOFF, Pittsburgh, Pa. Filed May 3, 1921. Serial No. 466,452. 4 Claims. (Cl. 70—106.)



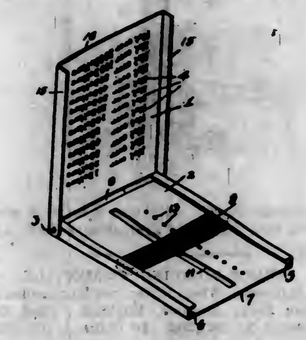
2. A padlock of the class described comprising a casing having a depression in its inner rear wall, and a shackle, a vertical and a horizontal latch sliding in the depression of said casing, a spring for normally pressing said horizontal latch into engagement with said shackle, a spring for normally holding said vertical latch in engagement with said horizontal latch, and means for successively interrupting the engagement between both latches and between one of said latches with the shackle.

1,398,234. COMBINATION ANGLE-TOOL. HARRY A. LANDIS, Red Lion, Pa. Filed Mar. 2, 1921. Serial No. 449,039. 4 Claims. (Cl. 145—67.)



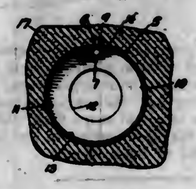
1. A tool of the class described comprising a handle or manipulating section, and a universal joint member including a jointed incasement and joined shank members loosely journaled in said incasement and adapted to flex to any angle within substantially 90°, one of said shank members being provided with a tool-receiving socket, the other of said shank members having projecting means with which the handle section is adapted to interlock.

1,398,235. POCKET CHECK-PROTECTOR. OTIS KARL LINSCOTT, Tekoa, Wash. Filed June 27, 1921. Serial No. 480,646. 6 Claims. (Cl. 101—297.)



1. A pocket check protector comprising a pair of plates, the inner face of one plate having a series of fixed printing characters, and the other plate having a movable inking device adapted to selectively coöperate with said series of printing characters to selectively reproduce any one of said series of characters on a check when presented between said plates.

1,398,236. COLLAPSIBLE CORE. FREDERICK MEYER, East Northport, Long Island, N. Y. Filed Feb. 17, 1920. Serial No. 359,219. 4 Claims. (Cl. 25—128.)

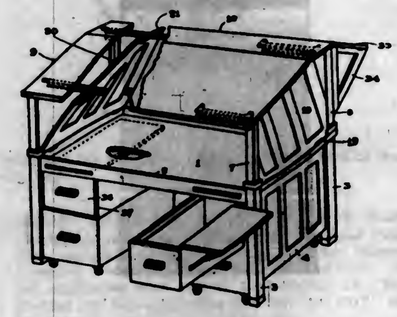


1. A collapsible core for use in constructing concrete bodies and the like, said core comprising an open tube composed of spring material, one of the free side edge portions of said core being provided with an inwardly directed bead, a shoulder in connection with which the other side edge portion of the core operates to form a continuous core which is normally closed by the spring qualities thereof, and ring members adapted to operate within the core at the end portions thereof, said ring members being cut out to receive said bead and serving to lock the side portions of the core against inward movement.

1,398,237. DESK. JOHN MICHAELS, Westmount, Quebec, Canada. Filed Dec. 27, 1920. Serial No. 433,406. 7 Claims. (Cl. 45—6.)

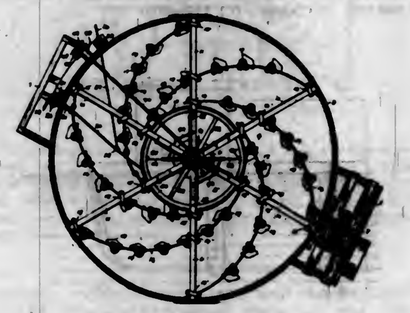
1. A desk comprising a frame supported from the floor at each corner, a table top having a writing section and a ledge section hinged together and having supports from writing section and ledge projecting downwardly into and vertically slidable in said frame adjacent to the ends, a plurality of cables engaging said table top supports at

the lower portions thereof and passing over pulleys for lifting said writing and said ledge sections of the top, weights attached to said cables and approximating the



weight of the table and its supports and panels at the ends forming rigid supports for the writing top and ledge in the extreme high position of said table top.

1,398,238. MIXING-MACHINE. HUGH MISCAMPBELL, Duluth, Minn. Filed Mar. 26, 1921. Serial No. 455,876. 3 Claims. (Cl. 259—34.)

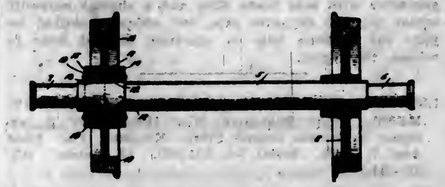


1. The combination with a rotative mixer of the class described comprising a rotative receptacle having a centrally disposed concentric drum therein, of a plurality of radially disposed arms extending outwardly from the axis of said drum, spirally disposed plow supporting beams carried by said radially disposed arms, spaced plow stanchions fixed to said beams and depending therefrom, and plows fixed to the lower ends of said stanchions, those upon the stanchions supported by one beam being set to act in the opposite direction to those carried by the next adjacent beams, substantially as and for the purpose described.

1,398,239. SOLVENT FOR PYROXYLIN BODIES. ROWLAND BRITTAIN MITCHELL, Athol, Mass., assignor to Athol Manufacturing Company, Athol, Mass., a Corporation of Massachusetts. Filed Sept. 22, 1920. Serial No. 411,960. 6 Claims. (Cl. 134—79.)

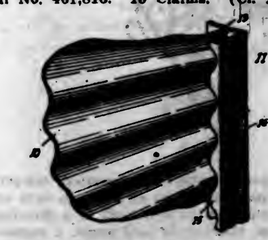
6. A pyroxylin solvent mixture containing acetone, an aliphatic alcohol, a lower member of the benzene series of hydrocarbons and acetanilid.

1,398,240. AXLE. GEORGE F. MORGAN, New York, N. Y. Filed July 14, 1921. Serial No. 484,591. 2 Claims. (Cl. 295—35.)



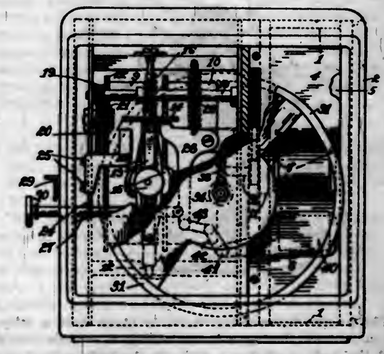
1. An axle for railway cars and the like having journal bearings and comprising a fixed wheel mounted at one end of the axle, a loose wheel mounted at the other end of the axle, and a collar for supporting the loose wheel consisting of two sections fixed on the axle and having their line of division substantially half way of the length of the bearing surface of the loose wheel.

1,398,241. CORRUGATED METAL END FOR RAILWAY-CARS. CARL THEODOR OSTERBERG, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Apr. 16, 1921. Serial No. 461,816. 15 Claims. (Cl. 105—410.)



1. In a railway car construction, a corrugated metallic end plate, in combination with a pair of angular corner posts each having an end flange or web for attachment of the end plate, means for damming the outer valleys of the corrugated end plate at the vertical edge of the end flange or web, and means for securing the corrugated end plate to the corner posts at points between the dams and the angle of the post.

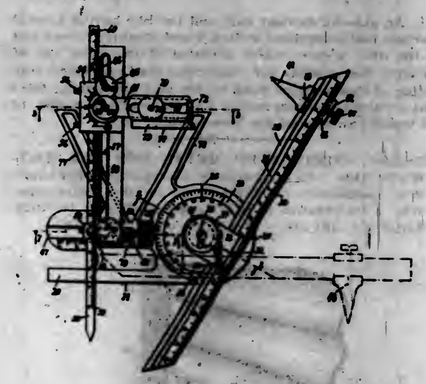
1,398,242. SHUTTER FOR MOTION-PICTURE APPARATUS. REINHART W. PITTMAN, New York, N. Y. Filed Sept. 3, 1920. Serial No. 407,891. 5 Claims. (Cl. 88—19.4.)



1. In a camera, the combination of film feeding means to intermittently advance the film, a motor arranged to

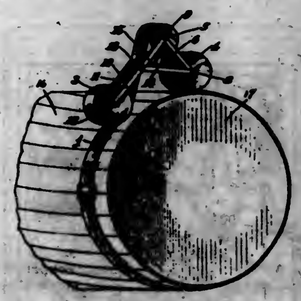
actuate the feeding means, a speed governor for the motor including a disk and a stationary arm, a control lever arranged to stop the feed mechanism and motor by engagement with said brake disk, and a shutter normally across the film exposure axis, but which is shifted beyond the exposure axis on operation of said lever to release the motor.

1,398,243. MEASURING AND PLOTTING INSTRUMENT. FRITZ ROSSKOPF, West Hoboken, N. J., assignor to Martin Joseph Prisio, Kingston, Pa. Filed Aug. 7, 1920. Serial No. 401,930. 13 Claims. (Cl. 33—94.)



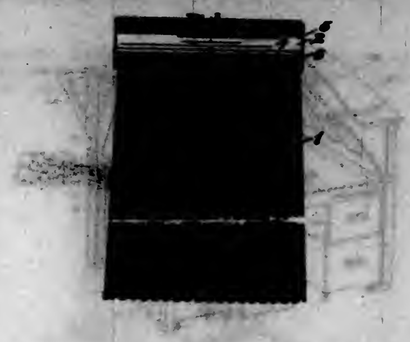
1. An instrument of the class described, comprising a body having arms arranged at an angle to each other, a slide movable relatively to said body in a direction perpendicular to the bisectrix of said angle, a member connected to move in unison with said slide and having an edge parallel to said bisectrix, and an arm pivoted to said member.

1,398,244. PROCESS OF PRODUCING LAMINATED CONSTRUCTIONS AND APPARATUS FOR USE IN CONNECTION THEREWITH. STEPHEN THOMAS, Long Island City, N. Y., assignor, by mesne assignments, to L-W-F Engineering Company, Inc., College Point, Long Island, N. Y., a Corporation of New York. Filed Mar. 21, 1917. Serial No. 156,485. 11 Claims. (Cl. 154—2.)



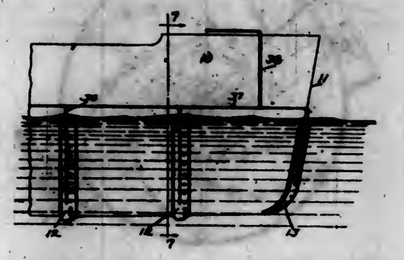
2. The process of securing strips in place upon a body, which comprises placing a band having a shiftable arch around the body, applying a strip to the body within the arch, and shifting the arch to place the pressure of the band on the strip.

1,398,245. MOP. SAMSON L. TOVLETS, New York, N. Y. Filed Jan. 28, 1921. Serial No. 439,784. 1 Claim. (Cl. 15—54.)



A mop comprising a bundle of mop material, a continuous reinforcing strip extending completely around the mop material and secured thereto, the mop material and strip being doubled over with the meeting edges of said strip secured together to form a loop at the upper end of the mop, with an aperture extending through said strip on the line of the fold to the interior of said loop.

1,398,246. APPARATUS FOR SUPPLYING AIR TO THE EXTERIOR OF HULLS OF SHIPS. F. G. TRASK, Ross, N. D. Filed May 27, 1919. Serial No. 300,108. 4 Claims. (Cl. 114—67.)



1. In apparatus of the character described, an inner plate curved longitudinally to conform to the curvature of the hull of the ship and secured thereto, an outer shell arranged near the plate and extending in proximity thereto throughout substantially its entire length, said outer shell having one edge thereof spaced from the plate to provide an air discharge slot, said outer shell having a top, a strip of elastic material carried by the top and adapted to engage with the inner plate, a set of pins connected with the outer shell and having screw-threaded engagement with the inner plate, and compressible coil springs surrounding the pins and arranged between the outer shell and the inner plate, and means to supply compressed air into the outer shell.

1,398,247. APPLIANCE FOR HOLDING FILMS FOR DENTAL RADIOGRAPHS. THOMAS B. S. WALLACE, Chicago, Ill. Filed Feb. 24, 1920. Serial No. 360,891. 10 Claims. (Cl. 250—94.)

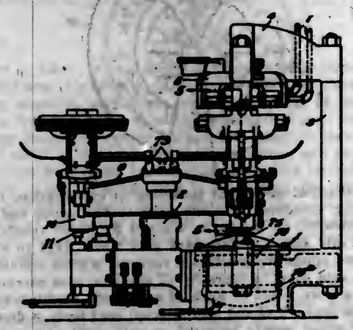
1. A holder for film packs for dental X-ray photography comprising separable coöperating members provided with

spring elements adapted to engage a film pack and having elements for positioning the holder with reference to the



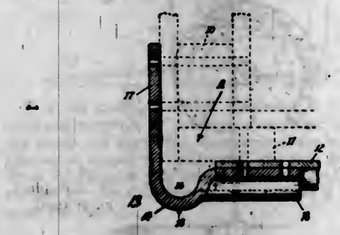
teeth and for manually holding said structure in desired positions.

1,398,248. IRONING-MACHINE. CHARLES E. WARNAM, Cincinnati, and DANA H. BENJAMIN, Cleveland Heights, Ohio, assignors to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Original application filed July 2, 1917, Serial No. 178,286. Divided and this application filed Nov. 13, 1917. Serial No. 201,786. 17 Claims. (Cl. 68—9.)



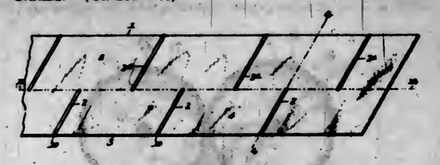
2. An ironing machine, comprising a bed, a coöperating chest, said bed and chest being relatively movable, a neckband former, a back corner ironer movable into coöperating relation with the neckband former, an automatic means actuated by operation of the machine for producing said ironer movement.

1,398,249. CORRUGATED-METAL END FOR RAILWAY-CARS. WILLIAM F. WOODLAND, Wauwatosa, Wis. Filed Apr. 16, 1921. Serial No. 461,766. 13 Claims. (Cl. 105—410.)



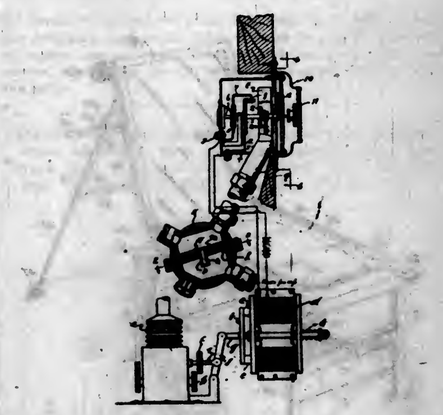
9. In a railway car end construction, a pressed-steel corner post having a corrugated end flange and a side attaching flange angularly disposed with relation thereto, the corrugations of the end flange extending from the edge of the post toward the angle formed by the flanges and being gradually merged therein.

1,398,250. SHEET-ROOFING. EDWARD J. YETTER, Denver, Colo. Filed May 9, 1921. Serial No. 468,097. 7 Claims. (Cl. 108—7.)



1. A shingle representing strip of roofing material made of the width of the length of shingles and provided with raised rib members on its weather exposed side positioned in offset centrally spaced order in two rows along the length of said strip and arranged to define the outlines of separately laid shingles having an exposed surface of standard width.

1,398,251. AIR-COMPRESSING APPARATUS. HENRY J. APPLETON, Detroit, Mich. Filed Mar. 24, 1920. Serial No. 368,280. 6 Claims. (Cl. 200—81.)

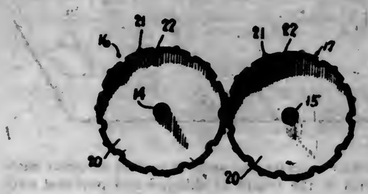


1. In an automatic switch for controlling the connection or disconnection with driving means, the combination of a rotating switch element provided with a metal portion and a fiber portion, a magnet that can be set at a determined position in the path of rotation of the rotating switch element and pushed into contact with the metal portions to establish a circuit until the rotation of the switch element brings the fiber portion around and breaks the circuit, and means for driving the rotating switch element in rotation in accordance with the increase in pressure in a container.

1,398,252. CIDER-PRESS. ARLIE BARTLEMAY, Bluffton, Ind., assignor to Red Cross Manufacturing Company, Bluffton, Ind. Filed Oct. 16, 1919. Serial No. 331,227. 1 Claim. (Cl. 100—47.)

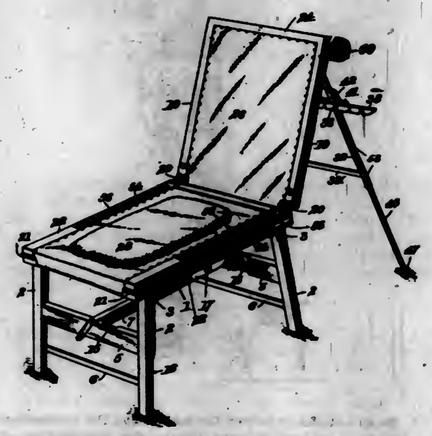
In apparatus of the character described, a crushing and pressing element comprising a body mounted for rotation, said body being of general cylindrical configuration and having longitudinally disposed ribs standing out radially beyond its general periphery and having longitudinally disposed grooves located in its peripheral portion, the ribs being spaced at equal distances apart, the grooves being spaced at equal distances apart, the spaces between the ribs being equal in transverse dimension to the corresponding dimension of the spaces between the grooves, the transverse dimensions of the ribs being less than the transverse

dimensions of the grooves, the ribs being located midway between the grooves and spaced from the adjacent edges



thereof whereby arcuate sections of the peripheral portion of the body are interposed between the adjacent edges of the ribs and grooves.

1,398,253. FOLDING CHAIR AND BED. FRANK BLANDO, New York, N. Y. Filed Feb. 23, 1921. Serial No. 447,130. 10 Claims. (Cl. 155—49.)



1. In a folding chair, the combination with hinged legs, of cross pieces connecting said legs together in pairs, a brace having notches to engage certain of said cross pieces for retaining the legs in extended position, an arm hinged to the chair and to said brace for supporting the latter and permitting it to be folded flat upon the chair when disengaged from said cross pieces, said legs being adapted to fold upon one another over said brace, and a latch mounted on said arm to engage over a cross piece extending between the folded outer pair of legs for retaining both pairs in folded position.

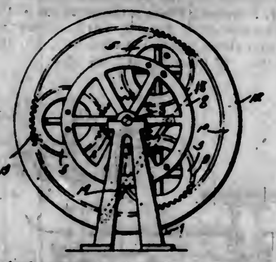
1,398,254. OIL-BURNER. CARL E. BROWN, Columbus, Ohio, assignor to Parker Manufacturing Company, Dayton, Ohio. Filed July 9, 1919. Serial No. 309,694. Renewed Oct. 3, 1921. Serial No. 505,113. 1 Claim. (Cl. 158—64.)

A burner comprising a casing having a flue provided with openings; a support on the casing; and a U-shaped generator embodying an upper arm slidably mounted on the support, and a lower arm slidably mounted in the openings, the lower arm having a combustion orifice normally located within the flue and adapted to be disposed outside of the flue when the generator is slid endwise, the openings in the flue being elongated transversely of the casing, whereby the generator may be slid transversely from a



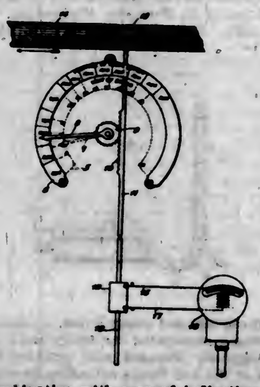
point relatively close to one side of the casing, to a point relatively close to the opposite side of the casing.

1,398,255. GEARING. WILLIAM BRUBAKER, Tolna, N. D. Filed Jan. 13, 1919. Serial No. 270,968. 1 Claim. (Cl. 74—34.)



A mechanical movement including in combination, two supporting standards, a shaft fixed to the upper end of said standards, an internally toothed fly wheel revolubly held on said shaft, a stationary gear wheel fixed to said shaft, two oppositely positioned carrying wheels revolubly held on said shaft, a plurality of studs on said carrying-wheels, a gear wheel on each of said studs meshing with said fixed gear wheel and said internal gear teeth, a driven sprocket wheel loosely mounted on said shaft adjacent to said flywheel, and a pitman connecting said driven sprocket wheel to one of said stud-wheels, whereby on rotating said fly wheel, said connected sprocket wheel is rotated, as and in the manner set forth.

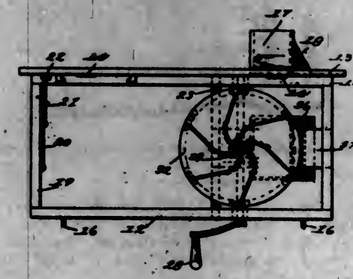
1,398,256. VALVE-CUT-OFF-CORRECTION INSTRUMENT FOR LOCOMOTIVES. VIRGINIUS Z. CARACRISTI, Bronxville, N. Y. Filed May 28, 1920. Serial No. 384,854. 9 Claims. (Cl. 234—1.)



1. The combination with a speed indicating instrument for locomotives, of an indicating device associated with

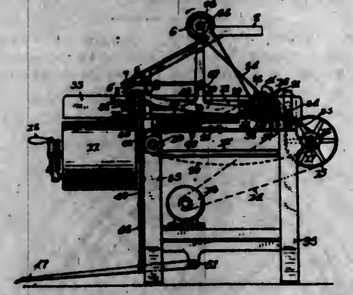
the speed indicator, and to be read in conjunction with the latter, said device having means operatively connected with the valve operating means whereby the correct position of the cylinder valve cut-off can be maintained in accordance with the driving speed, as indicated by said indicating instrument.

1,398,257. CABBAGE-SLICER. MIKE CHERASTEK, Passaic, N. J. Filed Apr. 7, 1920. Serial No. 371,844. 1 Claim. (Cl. 146—11.)



In a slicer of the character described, a cutter disk, comprising a plurality of wings, beveled and curved cutting edges on said wings, the cutting edge of one wing in a different plane than the edge of the next adjoining wing, bands to connect the meeting edges of two adjoining wings at the periphery of said cutter, and means for securing said bands to said wings, a spider having a plurality of curved wings with beveled edges, the inner ends of said first named wings adapted to be secured to the wings of said spider by rivets passed from above into said spider wings, substantially as described and for the purpose set forth.

1,398,258. NAILING AND TACKING MACHINE. HERBERT E. COOLEY, West Bend, Wis. Filed June 22, 1918. Serial No. 241,827. 8 Claims. (Cl. 144—2.)



1. A box nailing machine comprising a frame, a drum rotatably mounted at one end, a clamping bar pivoted to the frame and extending lengthwise above the drum, foot-controlled means for depressing the bar down onto the drum to clamp a box forming sheet thereto and means carried by the clamping bar for nailing a sheet wound upon the drum.

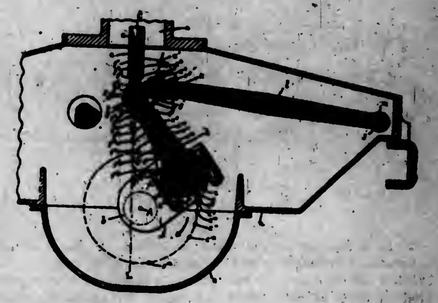
1,398,259. TIRE-COVER. HARRY S. DUBB, New York, N. Y. Filed Oct. 16, 1920. Serial No. 417,400. 1 Claim. (Cl. 150—54.)

A tire cover consisting of a pair of spaced apart circular side walls, a permanent peripheral strip secured along the outer edges of said side walls for approximately one half the circumference thereof, stringers secured along the remaining portions of the peripheral edges of said side walls between the ends of said permanent strip, and having series of interlockingly engageable fingers, a slide



for interlocking and releasing said fingers, movable along the stringers, and cover strips secured to overlie the said stringers, one of which has an inwardly projecting flap normally covering the series of interlocking fingers and the slide.

1,398,260. ENGINE-DRIVE. EUGENE A. FORD, Newton, Mass., assignor to R. E. D. Engine Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 14, 1921. Serial No. 452,362. 7 Claims. (Cl. 74—14.)



3. In an engine, a cylinder, a crank-shaft, piston rod, connecting rod and guide link, said guide link being mounted on a fixed pivot at one side of the center line of the cylinder and the connecting rod having a laterally projecting arm beside the wrist connection which is pivoted to said link, and the crank being set at one side of the cylinder center line toward the pivot of the link.

1,398,261. METAL CONTAINER. HUGO P. GRIESER, New York, N. Y. Filed Sept. 23, 1920. Serial No. 412,273. 11 Claims. (Cl. 220—67.)

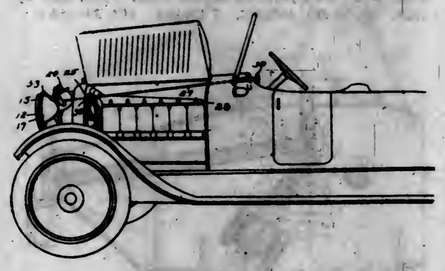
1. A sheet metal container adapted to receive contents liable to fermentation, said container provided with sheet metal ends, the ends and body of the container being connected by an air-tight seal, said ends provided with a plurality of outwardly projecting corrugated ribs, the corrugations being so spaced as to prevent the flexing of the metal between corrugations, the corrugations through-

out their length rising to the level of the edge of the rim of the container, so that adjacent containers when stacked one on top of the other will have the corrugations of their adjacent tops and bottoms in contact with each other, the



distance between the ends of adjacent containers being filled with the metal corrugations, whereby the adjacent ends as well as the rims support each other against the shock of their contents.

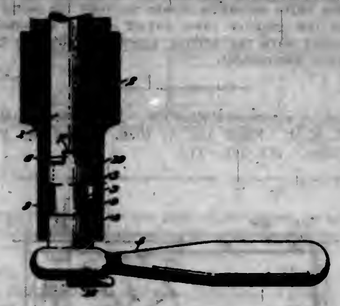
1,398,262. CONTROLLING DEVICE FOR AUTOMOBILE-HEADLIGHTS. JAMES E. GRAY, Newton, Iowa. Filed Oct. 18, 1920. Serial No. 416,709. 3 Claims. (Cl. 240—61.)



2. In a device of the class described, a plurality of supports, a horizontal shaft pivoted in said supports, a bracket on each end of said shaft, a lamp vertically pivoted in each of said brackets, means for operating said lamps in unison comprising a rod parallel to said shaft and attached to the body portion of each of said lamps by a universal pivot substantially midway between the vertical axis and a horizontal central line through said lamps perpendicular to said vertical axis, means for imparting longitudinal and lateral movement to said rod comprising a rod arranged transversely with the said first rod having one end adjacent and provided with a right angular extension, a sleeve slidably mounted on said extension and pivotally connected to the first said rod, means for rotating, or moving said second rod longitudinally, means for locking said second rod.

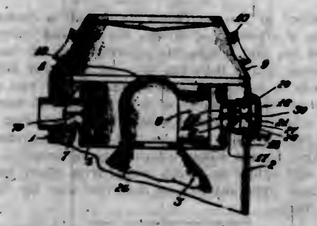
1,398,263. DETACHABLE VALVE-HANDLE. FREDERICK F. HALS, Medford, Mass. Filed July 7, 1920. Serial No. 394,514. 3 Claims. (Cl. 74—33.)

1. In a device for dispensing gasolene or the like having a valve, the combination of a valve stem, a sleeve guard surrounding the stem in spaced relation thereto and extending beyond the free end thereof, a tubular element having a sliding fit in the space between the guard and the stem and means on the tubular element and on the



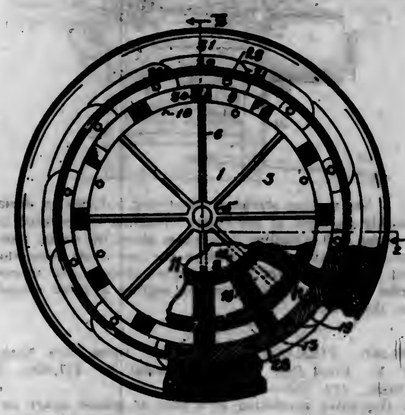
stem remote from its end defining an interlocking engagement.

1,398,264. HOT-AIR FURNACE. AUGUSTUS F. HARTER, Oak Park, Ill., assignor to Cribben & Sexton Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 15, 1921. Serial No. 461,465. 8 Claims. (Cl. 126—102.)



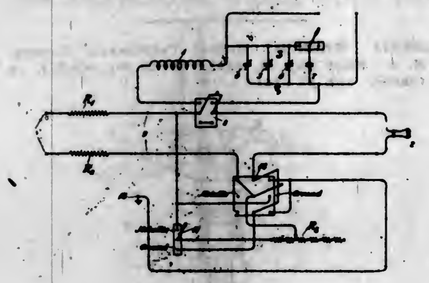
1. A hot-air furnace having angularly disposed clean-out openings in its outer wall, a radiator, a clean-out pipe for the radiator adjustable to extend through either opening to discharge outside the furnace, and a closure-cap set into said pipe independently of the outer wall.

1,398,265. VEHICLE-WHEEL. WARREN H. HINES, Flint, Mich., assignor of forty-nine one-hundredths to Ellen V. Hines, Flint, Mich. Filed Mar. 24, 1919. Serial No. 284,826. 2 Claims. (Cl. 152—30.)



1. A vehicle wheel comprising a pair of circular disk-like plates arranged in spaced relation, said plates provided with hubs to receive an axle, a ring arranged at the periphery of said plates, a second ring positioned between said plates, and separated from said first ring, each ring provided with a series of separated radially-extending apertures each aperture in one ring being in radial alinement with an aperture in the other ring, a radially-shiftable spoke having an enlarged outer end mounted in each pair of openings, an abutment on each spoke arranged inwardly of the outer ring, a tubular rubber block surrounding each spoke and positioned between said abutment and the outer face of the inner ring, a rim spaced from and encircling the outer ring, said rim provided in its inner face with a series of recesses to receive the outer ends of said spokes, a tubular block of rubber around each spoke extending between the rim and the outer ring, and an elastic tire mounted on said rim.

1,398,266. ELECTRICAL INDICATING AND MEASURING DEVICE. HARRY W. HITCHCOCK, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Apr. 7, 1920. Serial No. 371,954. 5 Claims. (Cl. 175—183.)



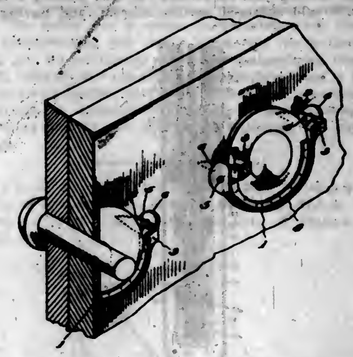
2. In an electrical measuring instrument the combination of a circuit having induced therein a voltage wave, the form of which it is desired to investigate, a circuit comprising inductance, capacity and an indicating device adapted to be brought into resonance for component frequencies of the voltage wave induced in the said first circuit, and means associated with the said second circuit whereby it may be shunted so that part of the current set up by the said voltage wave may be diverted therefrom.

1,398,267. PREPARATION OF LEAD ARSENATE. JOHN KIRBY, MATHEW S. HOPKINS, and CHARLES BAKER BERNHART, Reading, Pa. Filed July 28, 1921. Serial No. 488,156. 12 Claims. (Cl. 23—13.)

1. The method of making lead arsenate, which consists in treating an insoluble compound of lead with a solution containing arsenic in the presence of a sulfonated compound of an aromatic hydrocarbon.

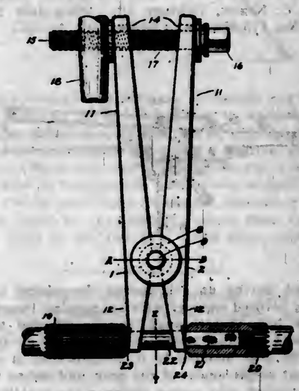
1,398,268. DEVICE FOR SUPPORTING WASHERS WHILE UPSETTING THE COÖPERATING BOLTS OR RIVETS. CHARLES MAUNDERS, Chilco, British Columbia, Canada. Filed Jan. 29, 1920. Serial No. 355,003. 6 Claims. (Cl. 78—46.)

1. A device for holding a washer on a bolt and close against the timbers which are to be secured by the bolt, while the bolt is being headed, comprising a substantially semi-circular band, means for securing said band



in position to support a washer, and means for withdrawing the band from the washer.

1,398,269. ROLL-SPREADER. ALBIN W. NELSON, Whitinsville, Mass., assignor to Whitin Machine Works, Whitinsville, Mass., a Corporation of Massachusetts. Filed Nov. 10, 1920. Serial No. 425,201. 1 Claim. (Cl. 29—85.)



An instrument of the character described comprising a pair of levers, circular grooves formed on both sides of each lever concentric with the fulcrum center, a disk formed to loosely fit in the groove on one side of the pair of levers, a ring loosely fitting the groove on the opposite side of the pair of levers, a retaining washer for said ring and means connecting the washer and disk comprising a centrally located stud the portion between the washer and disk serving as a fulcrum for the levers.

1,398,270. ELECTRODE FOR ELECTRICAL WATER-LEVEL-INDICATING APPARATUS AND OTHER ELECTRICAL APPARATUS. WALTER D. NICKUM, Glendale, Calif. Original application filed Sept. 16, 1918, Serial No. 254,345. Divided and this application filed Oct. 13, 1919, Serial No. 330,392. Renewed Oct. 29, 1920. Serial No. 420,580. 6 Claims. (Cl. 200—82.)

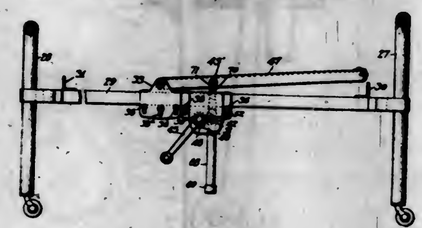
1. An electrode means for low water indicators, consisting of a rod of insulating material having an enlarged

portion and having an extension beyond said enlarged portion, electrodes mounted on said extension, a metal tube surrounding said insulating rod and making a tight joint with said enlarged portion thereof, and having an



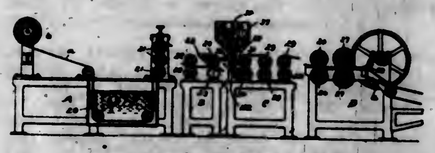
elongated screw threaded shank and an annular shoulder, and an outer tube screwing on said shank and making a tight joint with said shoulder and provided with external means for attachment to a support.

1,398,271. BED OR ATTACHMENT THEREFOR. MOSES C. NIXON, Chicago, Ill. Filed July 11, 1917. Serial No. 179,986. 12 Claims. (Cl. 5—12.)



1. A bed having an attachment comprising a pivoted member, a pivoted support with an opening therein and a transverse hole therethrough, a gear adapted to be rotated in said opening, means connecting the pivoted member and the gear adapted to be reciprocated in said hole and prevent displacement of the gear, and means to rotate the gear around said means whereby the position of the pivoted member may be adjusted.

1,398,272. PROCESS OF PRODUCING ORNAMENTAL ROOFING. FREDERICK C. OVERBURY, Hillsdale, N. J., assignor, by mesne assignments, to The Flintkote Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 6, 1917. Serial No. 152,492. 1 Claim. (Cl. 91—67.9.)



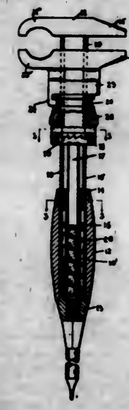
The herein described process of making mineral surfaced ornamental roofing elements, which consists in passing a sheet of adhesive-coated fibrous material under a mass of crushed mineral material, consisting of alternating strata of differently colored material, each stratum consisting of alternating bodies of differently colored material, and causing said differently colored mineral materials to adhere in irregular areas of different colors with intervening areas having a mixture of colors thereon, and then partially embedding said mineral materials by pressure into the adhesive coating of said sheet.

1,398,273. MIRROR AND COMB HOLDER FOR HATS. GUSTAV PESETERNAK, Trenton, N. J. Filed May 4, 1921. Serial No. 466,773. 2 Claims. (Cl. 2—108.)



1. In a holder of the type described, means providing a pocket adapted to hold a comb, and a slidable catch in said holder adapted to engage the end tooth of the comb to hold the same against displacement from said pocket.

1,398,274. WRENCH. GUSTAV PESETERNAK, Trenton, N. J. Filed May 11, 1921. Serial No. 468,651. 4 Claims. (Cl. 81—161.)



1. A wrench comprising a shank presenting arcuate screw threads, a jaw slidable thereon, a nut on said shank having a swivel engagement with said jaw, said nut having arcuate threads adapted to engage with and disengage from the screw threads on the shank by partial rotation of the nut, said nut having serrations formed on its rear face, and a spring-pressed disk slidable and non-rotatable on said shank having on its front face serrations similar to and adapted to engage the serrations on the nut.

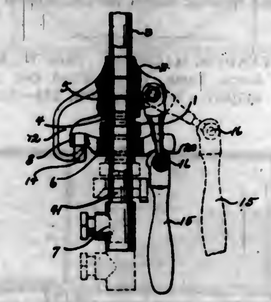
1,398,275. GRAIN CLEANER, SEPARATOR, AND DRIER. WILLARD A. PETTYS, Wilcox, Nebr. Filed June 4, 1918. Serial No. 238,155. 3 Claims. (Cl. 130—15.)

1. In a grain separating structure comprising a trough shaped rectangular chute, upper and lower spaced series of screening members, each of said screening members having upper and lower parallel inclined guides secured to the inner sides of the chute, screening frames of different mesh supported by the said guides, an upper and lower independent series of hinged shutters constituting



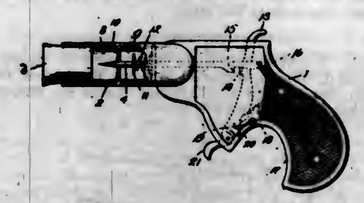
a flooring for the chute and baffle plates for the upper and lower series of screening members, and independent means to selectively open either series of shuttters to regulate the air draft within the chute.

1,398,276. COUPLING. HARRY E. PHELPS, Brooklyn, N. Y., assignor to C. Kenyon Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Dec. 13, 1919. Serial No. 344,588. 10 Claims. (Cl. 285—172.)



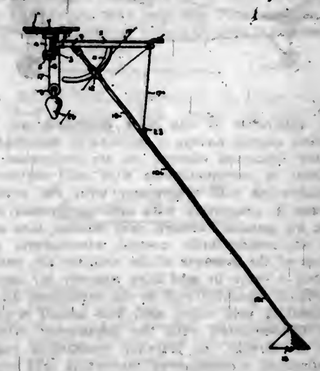
1. A coupling for the air bags used in the vulcanization of the casings of pneumatic tires, comprising an entered member and an entering member having co-acting seat portions of substantially unalterable form and fastening means for said members including co-acting parts capable of movement with said members, and constituting the sole means for enabling said members to be forcibly drawn together and held in locked position.

1,398,277. TOY PISTOL. MICHAEL PILNACEK, New York, N. Y. Filed Jan. 17, 1919. Serial No. 271,579. 1 Claim. (Cl. 42—54.)



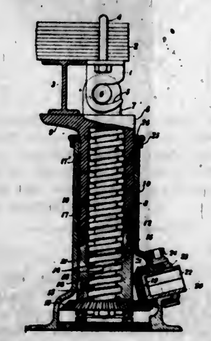
A toy pistol embodying a barrel provided with an open forward end adapted to receive a pellet embodying an explosive charge, a partition extending across the barrel intermediate its ends and provided with an aperture, said partition dividing the barrel into a forward firing chamber and a rear operating chamber, a firing pin extending through the operating chamber and projecting through the aperture in the partition, a spring seated within the rear end of the barrel and exerting a forward pressure on the firing pin, a lever coöperating with the firing pin, a spring coöperating with the lever for manipulating the lever forwardly to actuate the firing pin, an additional spring for maintaining the firing pin in coöperative relation with said lever and a trigger for normally holding said lever in restraint, whereby when the trigger is actuated the lever is released and operates the firing pin for the purpose of exploding the explosive charge.

1,398,278. LIGHTING-FITTING. WILLIAM JOHN PULLOCK, Germiston, Transvaal, South Africa. Filed Dec. 30, 1919. Serial No. 348,421. 3 Claims. (Cl. 240—69.)



1. A lamp fitting comprising an extensible rod adapted to carry a lamp at its end, a support to which said rod is pivoted to swing in a vertical plane, frictional means for adjustably positioning the rod, a flexible cord suspended from a fixed part and providing a bight, a weighted pulley adapted to compensate part of the weight of said extensible rod in said bight, said cord thereafter extending from a point on the support remote from the pivot and being fixed to the rod at a point also remote from the pivot.

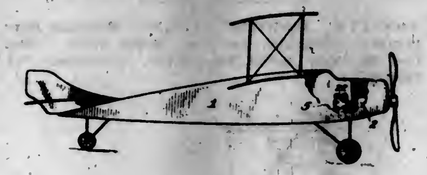
1,398,279. LIFTING-JACK FOR MOTOR AND OTHER VEHICLES. FREDERICK LIONEL RAPSON, Liverpool, England. Filed Apr. 12, 1918. Serial No. 228,100. 5 Claims. (Cl. 254—86.)



1. A lifting jack for use on motor and other vehicles, and means including a pintle and an open hook for de-

tachably hinging the lifting jack to the vehicle in position to swing automatically by gravity beneath the axle of the vehicle, whereby the jack may be applied to either end of either axle for elevating the wheel and may be removed and carried in the vehicle after use.

1,398,280. DEVICE FOR ENABLING AN AIRPLANE-MOTOR TO DEVELOP ITS FULL POWER AT HIGH ALTITUDES. FRED I. RAYMOND, Two Buttes, Colo. Filed June 5, 1918. Serial No. 238,405. 10 Claims. (Cl. 244—80.)



1. In apparatus of the class described, an internal combustion engine having a carbureter manifold and a carbureter connected thereto, an air compressor having its exhaust in communication with said carbureter, an inlet connecting said compressor with the outside air, and means in connection with said compressor to maintain the air passing through said exhaust into said carbureter at substantially normal atmospheric pressure regardless of the pressure of the exterior air, said means comprising a valve in said inlet whereby air may be fed at a variable regulable rate to the carbureter and means for controlling said valve, said last named means being entirely disassociated with the compressor exhaust.

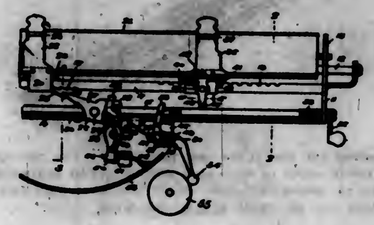
8. In an airship, an internal combustion engine, an air compressor, a passageway connecting said compressor with the engine cylinders, aneroid means to control the admission of air to said compressor to maintain the air delivered by it to said cylinders at a substantially constant predetermined pressure regardless of the altitude of said airship, and an aviator's compartment containing the air compressor and the aneroid means.

1,398,281. ELECTRIC THERMO-REGULATOR. ERNEST H. RUDDIGER, Bismarck, N. D. Filed Apr. 28, 1920. Serial No. 377,313. 2 Claims. (Cl. 200—140.)



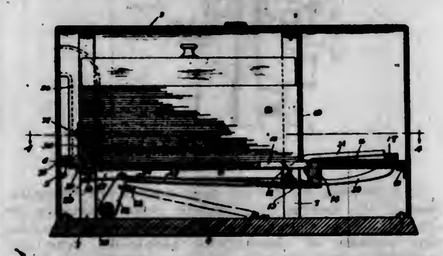
1. In a device of the class described, the combination of a shell having an expansible liquid therein, an insulating plug carried by said shell and having a longitudinal bore extending therethrough, a standard rising from said plug, a switch lever fulcrumed on said standard, a float movable in said bore on the surface of said liquid, a shank connecting said float with said lever, and a binding post carried by said plug in the path of movement of said lever, whereby when the float is lowered the lever will engage the post to close a circuit and the rising of the float will disengage said lever and break the circuit.

1,398,282. MARGIN-GAGE DEVICE. CHARLES SPIRO, New York, N. Y. Filed Apr. 28, 1919. Serial No. 293,070. 22 Claims. (Cl. 197—63.)



1. In a typewriter, a carriage provided with a platen, a gage bar mounted upon said carriage, a margin gage freely slidable on said bar, means to secure said gage upon the bar, and means upon a relatively fixed part to control said securing means for retaining or releasing said gage.

1,398,283. VENDING-MACHINE. FRED W. STICE and JESSE H. STICE, Tama, Iowa. Filed Oct. 18, 1920. Serial No. 417,537. 3 Claims. (Cl. 211—8.)



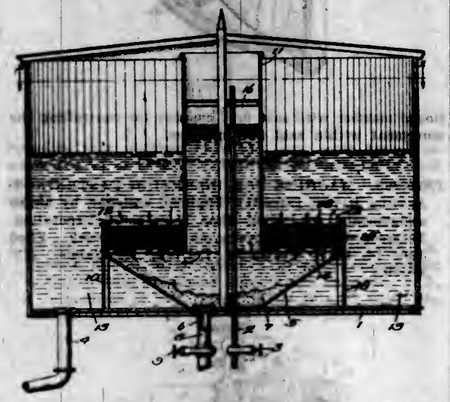
1. In a vending machine, the combination of a delivery slide, a stop thereon, actuating mechanism yieldably connected with the slide, and a detent pivotally mounted between its ends adjacent the slide and provided at one end with an upper member normally in the path of the stop and with a lower member extending under the stop, the opposite end of the detent being disposed in the path of a coin whereby an inserted coin will rock the detent and release the stop.

1,398,284. WEATHER-STRIP. FREDERICK A. STICKLE, Cincinnati, Ohio, assignor to Edmund H. Lunken, Cincinnati, Ohio. Filed Nov. 3, 1919. Serial No. 335,413. 3 Claims. (Cl. 20—69.)



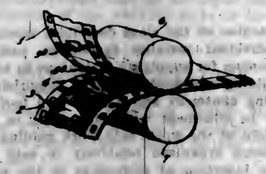
1. A weather strip comprising a longitudinally extending metallic strip formed up centrally to act as a wiping strip, means for mounting the strip so that it can spread transversely thereby lowering the central formed up portion, and a non-yielding abutment mounted under the strip, spaced therefrom to allow yielding thereof, and formed up centrally to act as a stop upon undue depression of the formed up portion of the strip to prevent caving of the metallic strip.

1,398,285. FILTERING APPARATUS. INOS B. TANNER, Chicago, Ill., assignor to Joseph E. Nelson & Sons, a Firm composed of Joseph E. Nelson, John E. Nelson, and William H. Nelson, Chicago, Ill. Filed Apr. 9, 1919. Serial No. 288,770. 6 Claims. (Cl. 210—140.)



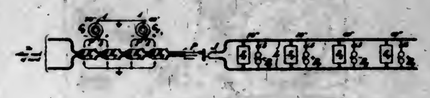
1. Filtering apparatus including a stand pipe that is rectangular in cross section; a basin whose bottom is below and spaced apart from the lower end of the stand pipe, said basin having a rectangular rim; rectangular frames coupling the sides of the stand pipe with the sides of the basin rim; and filtering material at said frames.

1,398,286. METHOD OF COLORING MOTION-PICTURE FILMS. GOTTLIEB TAUSSIG, New York, N. Y. Filed Mar. 19, 1921. Serial No. 453,560. 2 Claims. (Cl. 101—149.)



1. The method of coloring films which consists in printing and developing a positive film from a negative, then printing a reverse positive film from the same negative, thereafter coating the emulsion surface of the reverse positive with a gun cotton solution which covers all portions of the emulsion side of the reverse positive, except those portions corresponding to the portions of the positive which it is desired to color, then applying color to the coated side of the reverse positive, thereafter removing the color from all parts of the reverse positive except from the uncoated portions thereof, and finally bringing the emulsion side of the reverse positive into contact with the emulsion side of the positive, while maintaining the characters of the reverse positive and of the positive in registration, whereby the color carrying reverse positive serves to print or color the positive.

1,398,287. SELECTIVE SIGNALING SYSTEM. GEORGE K. THOMPSON, Maplewood, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Jan. 15, 1920. Serial No. 351,604. 4 Claims. (Cl. 179—86.)



1. In a selective signaling system, line conductors, biased frequency selective signaling devices associated therewith, condensers in series with said devices, and means for associating with said line current of one frequency or another, having a larger ordinate in one direction than in the other.

1,398,288. FASTENER. EDMOND M. WATKINS, Trenton, N. J. Filed Nov. 21, 1919. Serial No. 339,596. 4 Claims. (Cl. 24—251.)



1. A fastener comprising jaws hingedly connected, one of said jaws having a stud and the other of said jaws being provided with a socket member, said socket member comprising a housing, pivoted stud retaining arms in said housing, a pintle in the housing serving as a common fulcrum for said arms, and stud releasers extending from said housing.

1,398,289. INDICATING ATTACHMENT FOR SOUND-RECORDS. ROBERT B. WHEELAN, New York, N. Y. Filed Mar. 4, 1920. Serial No. 363,208. 18 Claims. (Cl. 274—42.)



1. In combination with a sound record disk, a plurality of independently movable illustrations mounted upon the disk, means to automatically actuate said illustrations to cause them to disappear from view one by one after that portion of the record relating to the illustration in view has been reproduced.

1,398,290. AERIAL TORPEDO OR MINE. MEADE WILDRICK, U. S. Army, assignor of one-half to Oscar I. Straub, Fort Howard, Md. Filed Jan. 27, 1917. Serial No. 144,969. 9 Claims. (Cl. 102—2.)

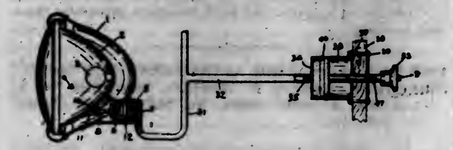
9. The combination of an explosive shell which automatically sinks when dropped in the water, a buoy, a flexible connection from the buoy to the shell, a reel with which the flexible connection cooperates and which is ro-

tated by the flexible connection as the shell sinks in the water, and automatic firing mechanism for the shell



whose operation is controlled by the reel, substantially as described.

1,396,291. FLUID-CONTROLLED ACTUATING MEANS. SAMUEL F. ARBUCKLE, Indianapolis, Ind. Filed Aug. 2, 1918. Serial No. 248,078. 11 Claims. (Cl. 230—35.)

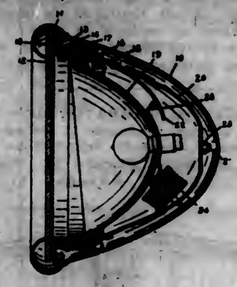


1. A fluid actuating means including expansible and contractible mechanism connected with the means to be actuated, means for creating a partial vacuum to operate said mechanism, and manually operated means in connection with said vacuum creating means to regulate the degree of vacuum created.

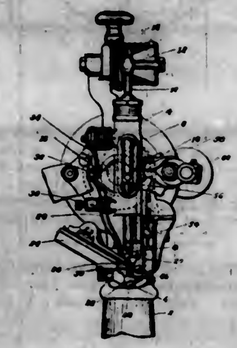
8. A fluid actuating means including means for incasing a column of fluid, means at one end of said column to be actuated by the fluid for moving a movable object, a piston at the other end of said column, of fluid for actuating the fluid, a hollow piston rod, a hollow head on the outer end of said piston rod so that there is a passageway to the open air from the column of fluid, a normally operated valve in said head for opening said passageway, and a spring in said head for holding said valve closed.

1,396,292. TWO-WAY-TILTING REFLECTOR FOR LAMPS. SAMUEL F. ARBUCKLE, Indianapolis, Ind., assignor to United States Automotive Corporation, Connersville, Ind., a Corporation of Delaware. Filed Sept. 20, 1919. Serial No. 325,230. 3 Claims. (Cl. 240—41.)

1. A lamp having a movable reflector therein, a member removably mounted in said lamp on which said reflector is pivotally mounted for permitting the vertical tilting thereof, a second member in which said first mentioned member is pivotally mounted for permitting the lateral turning of said member and reflector therein, an actuating means mounted between said first member and reflector for tilting the latter, and a second independently mounted actuating means connecting said second mentioned member with said first member for controlling the movement within said first member.



1,396,293. MACHINE FOR INSERTING FASTENINGS. ARTHUR BATES, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 14, 1917. Serial No. 174,742. 27 Claims. (Cl. 1—19.)

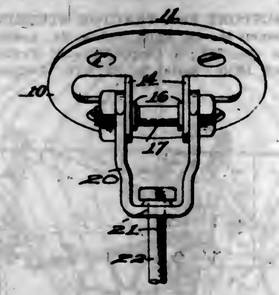


1. In a machine of the class described, mechanism for inserting individual metallic fastenings comprising a throat, mechanism for supplying fastenings to said throat, and work guiding and feeding means comprising a shoe upper engaging abutment and a shoe feed foot arranged substantially in alinement with each other in the direction of the feed of the work, said work guiding and feeding means being organized relatively to said throat to facilitate the insertion of fastenings in the upper of a boot or shoe in position to secure the upper to the shoe sole, and said feed foot operating to feed the work between successive fastening insertions by engagement with the shoe upper.

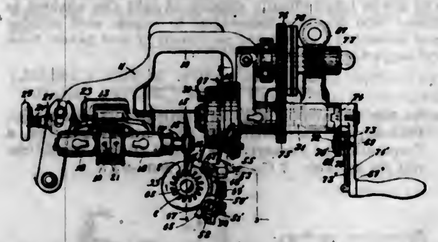
1,396,294. ADJUSTABLE PIPE-HANGER. HJALMAR G. CARLSON, Worcester, Mass., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 22, 1919. Serial No. 339,902. 1 Claim. (Cl. 248—61.)

A pipe hanger comprising a sheet metal supporting plate for attachment to a surface and having a surrounding rim adapted to engage that surface, and provided with screw holes for receiving attaching screws, the plate having two perforations therethrough, the metal cut out being bent at an angle to the plate into parallel position and perforated to form supporting lugs, a pivot bolt supported

in the last-named perforations, and a hinge member pivoted on said bolt for supporting a pipe hook, said hinge member being of U-shaped construction and engaging the outer surfaces of said supporting lugs, and the metal surrounding that punched from the lugs, being forced inwardly so as to form a circular flange surrounding each perforation on the inner side to strengthen the lug and increase the length of the bearing for the bolt.

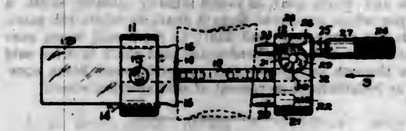


1,396,295. GRINDING APPARATUS. FREDERICK M. FURBUSH, Revere, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 30, 1917. Serial No. 183,496. 42 Claims. (Cl. 51—225.)



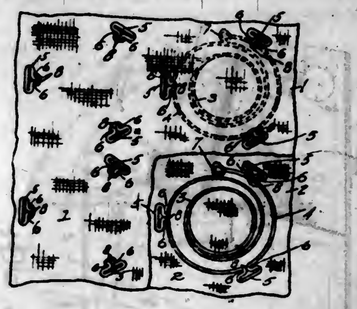
1. In combination, a grinding wheel, a cutter support, and means for rotating the wheel and support relatively to one another through varying distances depending upon the displacement of the working faces of the teeth to be ground.

1,396,296. MICROMETER TAPER-GAGE. CHARLES J. GOGUEN, Worcester, and JAMES J. PROVOST, Auburn, Mass., assignors to Brown & Sharpe Manufacturing Company, Providence, R. I., a Corporation of Rhode Island. Filed June 5, 1920. Serial No. 386,774. 6 Claims. (Cl. 33—167.)



1. In a taper gage, the combination with a supporting frame, of a rest adjustable as a whole thereon having two separated surfaces in the same transverse plane for engagement with one side of the tapered work to be measured, and two abutments located opposite, and in the same plane as said rest for engagement with the opposite side of the work, one of them being adjustable independently of the other.

1,396,297. MATTRESS OR THE LIKE. CHARLES A. HERMANN, Milwaukee, Wis. Filed Nov. 22, 1920. Serial No. 425,685. 5 Claims. (Cl. 5—13.)



1. A cushioning device comprising covers, springs interposed between said covers and comprising a main body portion provided with integral terminal convolutions bearing upon the inner sides of said covers, and means formed integral with said terminal convolutions to engage and positively retain said covers in contact with said terminal convolutions.

1,396,298. METALLIC SHIPPING-BARREL. WILLIAM C. IRVIN, San Francisco, Calif. Filed Feb. 12, 1921. Serial No. 444,522. 1 Claim. (Cl. 220—5.)

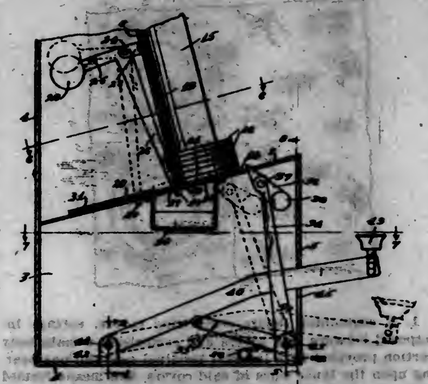


A metallic barrel for the shipment of oils or similar commodities, the same comprising an upper and lower conical section, adapted to be nested for shipment, the upper section being offset at its open end to provide an outer circumferential shoulder, a reinforcing locking hoop secured to said section to overlie the shoulder thereof, a reinforcing locking hoop secured to the open end of the lower section and offset on its inner face to provide with the face of said section an annular groove for the reception of the offset portion of the upper section on an assembling of the barrel sections, a packing ring within said annular groove, the upper face of the reinforcing hoop for upper section of the barrel and the lower face of the reinforcing hoop for the lower section of the barrel being downwardly inclined outwardly, a channeled split lock band adapted to embrace the reinforcing hoops and provided with inclined faces for engagement with the inclines of said hoops to draw together the barrel sections on circumferential pressure being applied to said lock band, and means for uniting the ends of the lock band on the barrel sections being assembled.

1,396,299. CHANGE-MAKER. GEORGE F. MCGILL, Chicago, Ill. Filed Apr. 19, 1920. Serial No. 374,855. 9 Claims. (Cl. 133—4.)

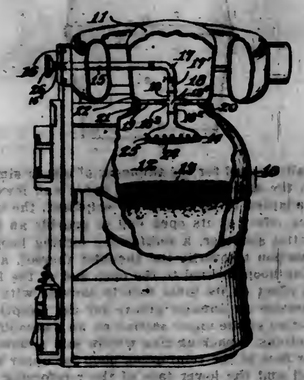
1. A change maker comprising a tube for holding a stack of coins, stationary means for supporting said coins, an

apertured slidable coin support, gravity acting slidably positioning therethrough for normally holding said slidable



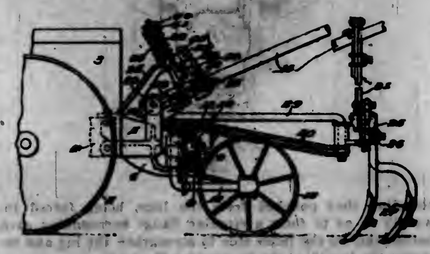
coin support in position underneath said coins, and a counterweighted ejector for discharging the lowermost coin in said stack from the tube.

1,398,300. MEANS FOR PROMOTING COMBUSTION. CHARLES MCVEETY, Cheltenham, Pa. Filed Apr. 15, 1921. Serial No. 461,479. 1 Claim. (Cl. 126—112.)



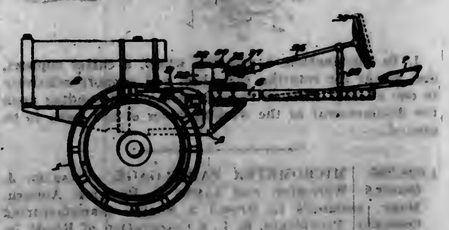
An apparatus for the promotion of combustion, comprising a furnace, a radiator secured over the upper open end thereof by means of a cup socket, an air inlet tube extending across said radiator and projecting from an opening in the side of said radiator, a four way fitting, connections between said inlet tube and the upper vertical arm of said fitting, an air distributor secured to the opposite arm of said fitting, extendible arms on the horizontal arms of said fitting and means to position said arms on ledges formed by said cup socket whereby said distributor is secured centrally within the combustion chamber of said furnace, above the fire bed, at a point where the combustion is most intense, so as to be surrounded on all sides by the gases ascending from said fire bed whereby said gases may mix with the escaping air from said distributor substantially as described.

1,398,301. SUPPORT FOR TRACTOR STEERING-HANDLES. JOSEPH MASON, Philadelphia, Pa., assignor to S. L. Allen & Co., Inc., a Corporation of Pennsylvania. Filed June 2, 1920. Serial No. 387,524. 7 Claims. (Cl. 97—30.)



1. The combination with a machine of the class described having a frame and a handle vertically movable with respect thereto, of means for supporting said handle in normal position, means for supporting said handle in raised position comprising a pivoted arm having a shoulder adapted to engage a member movable with said handle, and means longitudinally slidable on said arm adapted to render said shoulder inoperative to engage said member and operable by an upward movement of said handle from its supported position.

1,398,302. TRACTOR STEERING-GEAR. JOSEPH MASON, Philadelphia, Pa., assignor to S. L. Allen & Co., Inc., a Corporation of Pennsylvania. Filed Oct. 21, 1920. Serial No. 418,409. 7 Claims. (Cl. 280—97.)

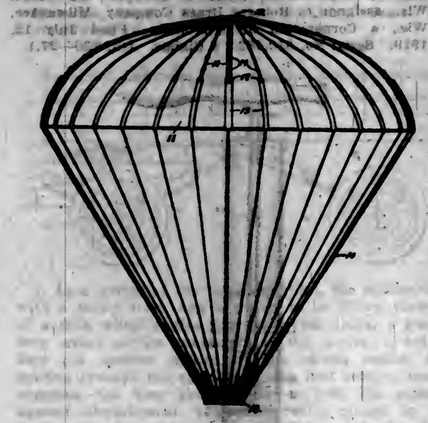


1. In tractor steering mechanism, the combination of a worm and worm gear, a longitudinally slidable shaft, a steering wheel connected to said shaft to rotate the same, means for connecting said shaft to drive said worm gear directly, and means for connecting said shaft to drive said worm through interposed gearing, said means being operable by longitudinal movement of said steering wheel.

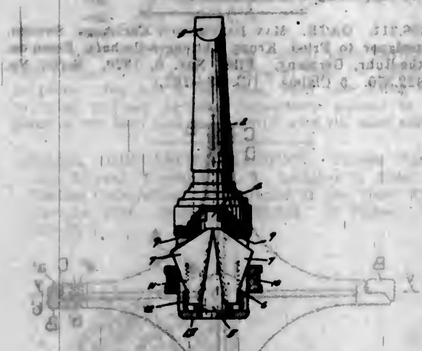
1,398,303. PARACHUTE AND PROCESS OF FOLDING THE SAME. LOUIS C. STRICKLER, Chicago, Ill. Filed Oct. 28, 1920. Serial No. 419,667. 4 Claims. (Cl. 244—32.)

1. A folded parachute comprising, the combination with the folded parachute body of cylindrical periphery radially enlarged upon the parachute body adjacent the perimeter thereof, said pocket being open at its outer end, and shroud cords each extending from the perimeter of the body in-

wardly in substantially a straight line through one of the pockets to the inner end of the pocket and thence outwardly through the pocket in a helical coil substantially filling the pocket from its inner end to its said open outer end.

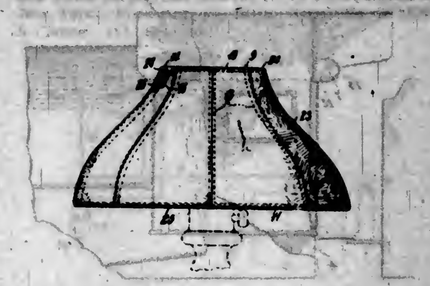


1,398,304. CHUCK FOR TAPER AND STRAIGHT-SHANK DRILLS. BRADY PARMENTER, Birmingham, Ala., assignor to A. L. Atwood, Birmingham, Ala. Filed Aug. 15, 1919. Serial No. 317,859. 3 Claims. (Cl. 279—58.)



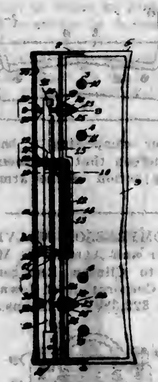
1. A drill chuck having a cylindrical externally threaded body with longitudinal slots in its forward end, jaws disposed in said slots, each having a reversely sloping back and heel, spitags mounted at the forward end of the body and each connected to a jaw so as to hold the tool engaging faces of the jaws converging inwardly and rearwardly with their heels slidably engaging the inner edge of the wall of the rear end of their respective slots, and a nut in threaded engagement with said body which is adapted to engage the backs of the jaws and throw them in to their work.

1,398,305. LAMP-SHADE. ADOLPH STEMMER, Philadelphia, Pa. Filed Mar. 15, 1920. Serial No. 366,266. 3 Claims. (Cl. 240—109.)



1. A lamp shade having a frame including upright ribs made of channel wire providing cavities between their sides; and a cover in the form of an endless band having looped portions inserted within said cavities and clamped therein due to the compression of said sides; substantially as described.

1,398,306. LOOSE-LEAF BINDER. ARTHUR B. SELDEN, Rochester, N. Y. Filed Jan. 20, 1921. Serial No. 438,575. 18 Claims. (Cl. 129—8.)

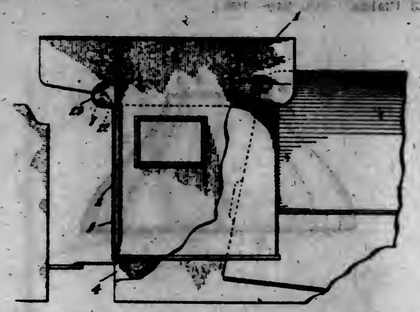


1. A loose leaf binder comprising two binder members, impaling means carried by said members, means for locking said members together comprising a wide projection on one of said parts and two clamping jaws on the other of said parts cooperating with opposite sides of the projection, one of said jaws being rigid with the part by which it is carried, the other being movable and both having arms projecting laterally therefrom in one direction, and a cam member operating in said arms to effect the movement of the movable clamping jaw.

1,398,307. CURTAIN FOR LOCOMOTIVE-CABS. HERBERT S. THOMPSON, Peekskill, N. Y. Filed Nov. 9, 1920. Serial No. 422,928. 4 Claims. (Cl. 105—358.)

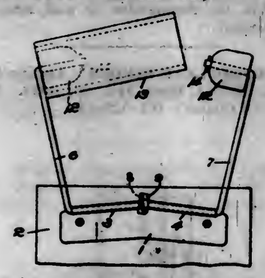
2. In a locomotive cab having an opening, a hinged

hood adjacent the top of said opening, a curtain for closing said opening and having one end supported



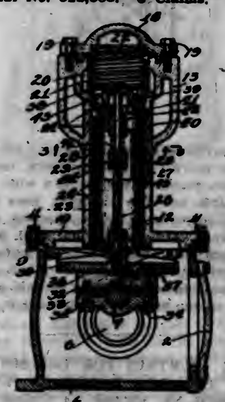
within said hood, and means for raising the curtain and storing it within said hood.

1,398,308. PAPER-HOLDER. Walter L. Weeks, Patchogue, N. Y. Filed Sept. 20, 1919. Serial No. 325,158. 9 Claims. (Cl. 211—31.)



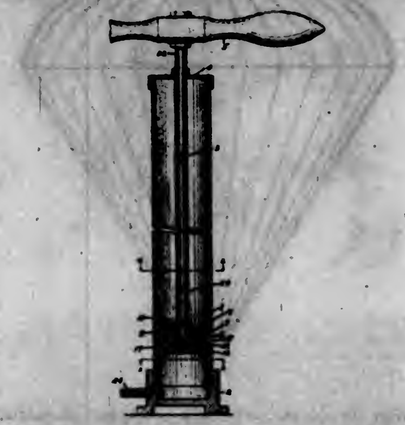
5. A paper holder comprising a back, roll holding arms so movable thereon that movement upward causes automatic spreading action of the arms to receive the paper roll.

1,398,309. COMPRESSOR VALVE MECHANISM. William Wishart and Albert H. Morrell, Clinton, Iowa, assignors to Clinton Refrigerating Company, Clinton, Iowa, a Corporation of Iowa. Filed Sept. 8, 1919. Serial No. 322,383. 5 Claims. (Cl. 230—34.)



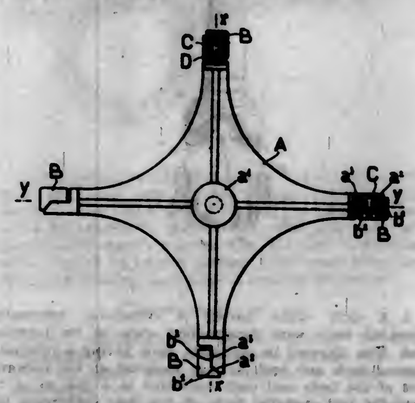
2. The combination with a crank-shaft, of a piston, a valve thereon, slidably interfitting members connecting the crank-shaft with the piston to cause the piston to reciprocate when the crank-shaft rotates, and a bearing member disposed between said interfitting members to operate the valve.

1,398,310. AIR-PUMP. Robert C. Kennoth, Milwaukee, Wis., assignor to Roberts Brass Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed July 12, 1919. Serial No. 310,462. 4 Claims. (Cl. 230—27.)



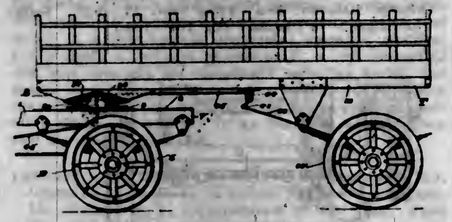
1. An air pump, having in combination a piston head provided with a depending flange, partially inclosed by a cup leather, a tubular piston rod leading through the piston head, and provided with an air inlet near its upper end, a valve disk loosely supported within the space inclosed by said depending flange, and adapted to seat upwardly against the piston head, means for supporting the valve in open position, said valve supporting means comprising a resilient member removably anchored to the depending flange, and provided with valve supporting arms.

1,398,311. GAGE. Max Bartholdy, Karlskoga, Sweden, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Nov. 6, 1920. Serial No. 422,370. 5 Claims. (Cl. 33—162.)



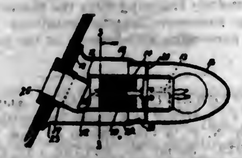
5. A gage comprising a body having four radially disposed arms, cooperating measuring members separably carried by the extremities of said arms, the ends of said arms being provided with radially disposed abutment faces and inclined abutment faces inclined to the measuring direction, said measuring members being provided with similarly-shaped cooperating faces and means for fixing said members to said arms, as and for the purpose described.

1,398,312. HITCH STRUCTURE. John Q. Black, Nashville, Tenn. Filed Sept. 13, 1920. Serial No. 409,876. 2 Claims. (Cl. 280—33.1.)



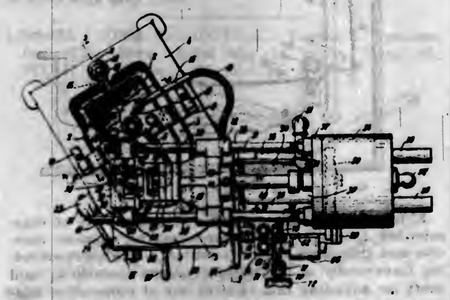
1. In a device of the class described, the combination with a motor truck and a trailer to be drawn thereby, of a fifth wheel section carried by the truck, a second fifth wheel section connected to the trailer, a hollow king pin member carried by the second section and passing through the aperture in the first section, means engaging the king pin member to lock the sections against displacement, a guiding device carried by the locking member and alined with the bore in the king pin member, and a flexible brake operating member passing over the guide and through the bore.

1,398,313. DASH-LAMP. Carl Brammimg, Chicago, Ill., assignor to Accessories Manufacturing Company, a Corporation of Illinois. Filed Jan. 3, 1921. Serial No. 434,674. 4 Claims. (Cl. 240—7.)



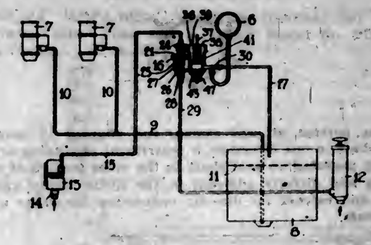
1. A dash lamp comprising a tubular shell having its base oblique to its axis, an integral tube for holding a connector plug and a bulb base, such tube being bent to bring its end portions respectively normal to the plane of the shell base and parallel with the shell axis.

1,398,314. DIE-CASTING MACHINE. George Waldemar Bungay, Brooklyn, N. Y., assignor to Acme Die Casting Corporation, a Corporation of New York. Filed Apr. 14, 1919. Serial No. 289,849. 15 Claims. (Cl. 22—69.)



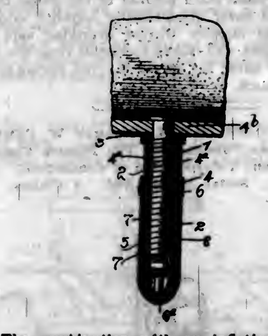
11. A casting machine having, in combination, a receptacle for the material to be cast, a nozzle above the surface of the material to be cast and adapted to communicate therewith upon moving of said receptacle.

1,398,315. FUEL SUPPLY AND REGULATING SYSTEM FOR AIRCRAFT-ENGINES. Ernest Halsewell Cawthra, Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y., a Corporation of New York. Filed Apr. 26, 1919. Serial No. 292,695. 6 Claims. (Cl. 158—36.)



1. In a liquid fuel supply and regulating system for aircraft engines, the combination of a fuel mixing or charge forming device for the engine, a liquid fuel tank adapted to contain liquid fuel for supply to said fuel mixing device and the engine, connections interposed between said fuel tank and said fuel mixing device through which the liquid fuel is adapted to be supplied to the mixing device, means associated with said tank and connections for creating a difference in pressure between the system and the surrounding atmosphere and thereby forcing fuel from the tank and through the connections to the said fuel mixing device, and regulating means associated with said system which is adapted to maintain a predetermined differential pressure between said system and the surrounding atmospheric air in either an atmosphere of increasing pressure or an atmosphere of decreasing pressure.

1,398,316. DUST-CAP AND SLEEVE FOR INFLATING VALVE-TUBES. Elba O. Collins, Chillicothe, Ohio. Filed Sept. 16, 1919. Serial No. 324,091. 2 Claims. (Cl. 152—12.)



2. The combination with an inflating valve stem including an inflating check valve holder, of a valve stem dust cap fitting the inflating valve stem and having its bore of less diameter than the stem, whereby the wall of the closed end of the cap may bear yieldably with pressure on the check valve holder and prevent it from unscrewing, a spacing sleeve of pliable material between the open end of the cap and the rim of the wheel, serving to accommodate stems of excessive lengths and hold them in place, said sleeve also serving to preclude foreign matter entering the opening of the rim through which the stem passes.

1,398,317. DOOR-CLOSER. Thomas E. Collins, Chicago, Ill. Filed Dec. 22, 1919. Serial No. 346,725. 1 Claim. (Cl. 16—46.)

In a door closer the combination of a compact casing comprising two flat cupped shaped members, provided

with aligned bearings, a shaft rotatably mounted in said bearings and provided with a spindle on one end thereof, extending beyond the bearings sufficiently to receive a drum or the like, a spring motor having a comparatively large number of windings mounted around said shaft



in one portion of said casing, and adapted to operate said shaft in one direction, a centrifugal expanding brake loosely mounted on said shaft in the other portion of said casing and directly adjacent to the spring motor and a pawl and ratchet for directly connecting the brake with the shaft.

1,398,318. TOILET-SEAT COVER. HENRY B. COURCHENE, Ill. Filed Apr. 29, 1920. Serial No. 377,482. 1 Claim. (Cl. 4—18.)



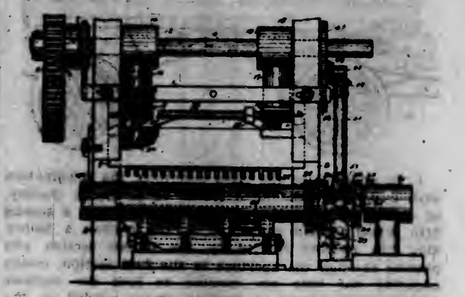
In combination, a toilet seat, a main cover hinged thereto, a hole in said cover, a supplemental cover fitting said hole, an annular plate secured to the upper side of said supplemental cover and extending beyond the edge thereof to afford a flange seating against the upper surface of the main cover, an annular plate secured to the lower surface of the main cover closely adjacent to the edge of the hole, an offset clip secured to the under face of the supplemental cover and overlying said last-named annular plate, a spring-pressed latch secured to the under face of said supplemental cover diametrically opposite said clip, the spring-pressed member thereof overlying said last-named annular plate, and means accessible from the under face only of the cover for retracting the spring-pressed member of said latch.

1,398,319. HOOD-CATCH. NORMAN W. CUMMINS, Bridgeport, Conn., assignor to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed May 11, 1921. Serial No. 468,765. 4 Claims. (Cl. 292—114.)



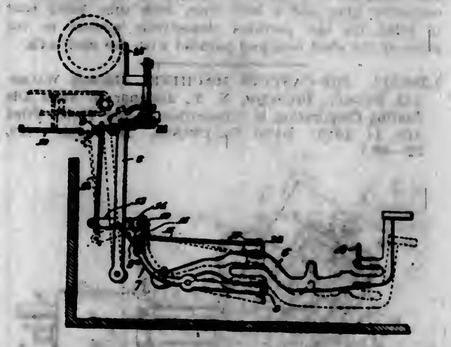
1. A hood catch comprising a buffer frame struck up from sheet metal and having medially disposed ears, a pivot pin passed through the ears to provide a rockable mounting for the frame, a buffer element carried on one end of the frame for impingement against the head of a motor vehicle, and a hood engaging hook member pivoted to the opposite end of the buffer frame for effecting a rocking of the latter to impinge the buffer element against the hood when the hook member is engaged with the hood.

1,398,320. PIPE-PERFORATOR. GEORGE W. DUNSWORTH, Houston, Tex. Filed Sept. 13, 1919. Serial No. 323,482. 6 Claims. (Cl. 164—106.)



1. A pipe perforator, including a tubular die, disposed to receive the pipe, which is fitted thereover, roller bearings wherein the pipe rests, a row of punches opposing said die, means for simultaneously reciprocating said punches into cooperation with the die, whereby a row of perforations is cut through the pipe, a jaw to which said pipe is secured, a pair of annular ratchets carried by said jaw, an oscillating yoke, dogs carried by said yoke and alternately engaging with the respective ratchets for imparting successive partial rotations to the pipe following the successive withdrawals of the punches therefrom.

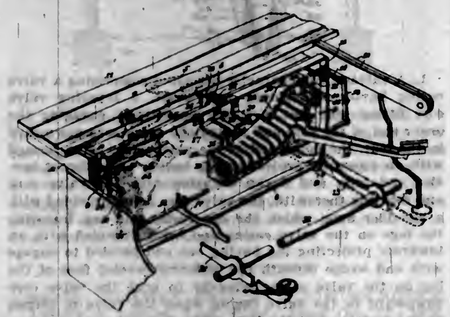
1,398,321. TYPEWRITING-MACHINE. ALONZO B. ELY, Groton, N. Y., assignor to Corona Typewriter Company, Inc., Groton, N. Y., a Corporation of New York. Filed Mar. 20, 1919. Serial No. 283,702. 12 Claims. (Cl. 197—98.)



1. In a typewriting machine, the combination of character-key levers, an escapement-operating element operable each time a key lever is actuated, a rock shaft extending transversely of the machine, means operable by said shaft for adjusting said element out of cooperative relation with the escapement, said shaft having spaced pairs of oppositely disposed flat surfaces, a rock-arm having a U-shaped head adapted to embrace the bar and pivotally engage either of said pairs of flat surfaces, and a link detachably connected with one of said key levers at one end and connected at its other end with said rock arm.

2. In a typewriting machine, the combination of character key levers, a universal bar operable directly by the key levers, a vibrating member shiftable fore and aft of the machine by the universal bar, an escapement operating device pivotally held to said member to swing vertically relatively thereto, means for normally holding said device in a substantially horizontal operative position, a rock shaft, a rock-arm on said shaft, a link connecting said rock arm and the escapement operating device, and means connecting one of said key levers with said rock shaft for rocking the shaft to swing the escapement operating device downwardly to an inactive position when said key lever is actuated.

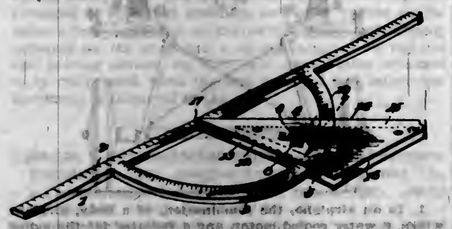
1,398,322. TYPEWRITING-MACHINE. ALONZO B. ELY, Groton, N. Y., assignor to Corona Typewriter Company, Inc., Groton, N. Y., a Corporation of New York. Filed Mar. 20, 1919. Serial No. 283,703. 20 Claims. (Cl. 197—83.)



1. In a typewriting machine, the combination of character keys, a member operable by each key for actuating an escapement and a ribbon vibrator, type bars operable by said keys, and means operable directly by one or more of the type bars for preventing operation of the escapement when said member is operated.

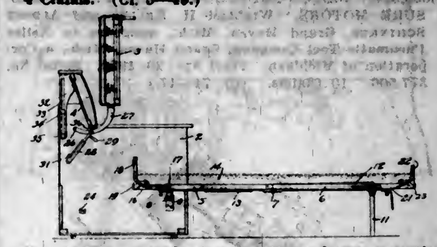
2. In a typewriting machine, the combination of case shift mechanism, character keys, a member operable by each key for actuating an escapement and a ribbon vibrator, type bars operable by said keys, and means operable by one or more of the type bars for preventing operation of the escapement when said member is operated, said case shift mechanism being operatively connected to impart a relative movement between said member and said type-bar-operated means into and out of cooperative relation with each other.

1,398,323. COMBINATION-TOOL. FRANK X. FREYDER, Iowa City, Iowa. Filed May 14, 1919. Serial No. 297,027. 6 Claims. (Cl. 33—75.)



1. A tool of the character described comprising a rigid base, an arch shaped angle gage plate consisting of a single graduated element having its two ends rigid on said base within the length thereof, an angular protractor arm movable on said plate and adapted to contact with said base at either side of said gage plate, and means for locking said protractor arm to said plate.

1,398,324. SOFA-BED. RALPH B. HOSNER, San Francisco, Calif. Filed Feb. 8, 1919. Serial No. 275,855. 4 Claims. (Cl. 5—49.)



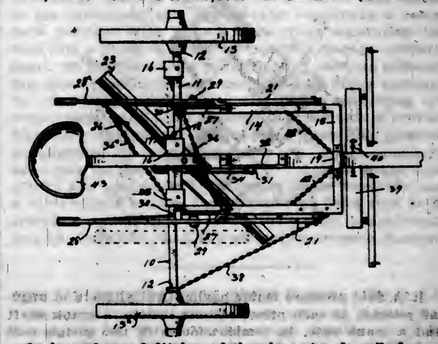
2. A bed structure having a mattress frame, a section slidably mounted on an end of the frame, and a board foldably mounted on said section to form, in one position, a foot or head board and adapted to fold over the mattress.

1,398,325. NUT LOCK OR FASTENER. JAMES W. IVORY, Philadelphia, Pa. Filed Dec. 30, 1920. Serial No. 433,985. 3 Claims. (Cl. 151—45.)



1. A nut lock consisting of a resilient washer plate of bowed form with an opening therein to be fitted over the threaded end of a bolt or the like, and a lip on the side of said plate having an inturned end, and a nut having in its side a recess in which said inturned end of said lip is seated and thereby connected.

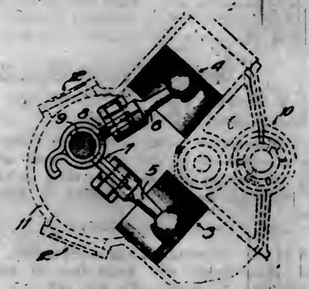
1,398,326. TWO-WHEEL ROAD-GRADER AND FIELD-DITCHER. ASA JOHNSON, Dayton, Tenn. Filed Oct. 13, 1920. Serial No. 416,676. 10 Claims. (Cl. 37—7.)



1. A grader and ditcher of the character described comprising an axle, traction wheels mounted thereon, a tongue connected to the axle, a frame attached to the axle and extending forward therefrom and connected to the tongue, downwardly extending brackets on the forward corners of the frame, scraper supporting beams operatively connected to the extremities of the brackets and extending

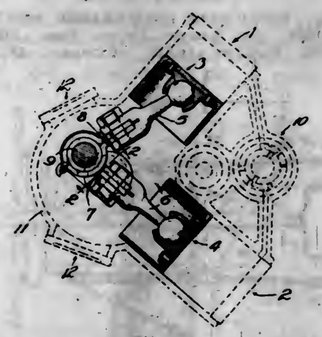
rearward therefrom, a scraper blade tiltably mounted upon the beams, oppositely disposed levers operatively connected to the beams to raise or depress them, means for holding the levers in adjusted positions, and a lever operatively mounted upon the frame and having operative connections to said blade whereby the blade may be tiltably adjusted.

1,398,327. PISTON-ROD TOGGLE FOR FLUID-PRESSURE MOTORS. WILLIAM H. KELLER and ALBERT SCHINKER, Grand Haven, Mich., assignors to Keller Pneumatic Tool Company, Grand Haven, Mich., a Corporation of Michigan. Filed Apr. 29, 1920. Serial No. 377,506. 10 Claims. (Cl. 74—17.)



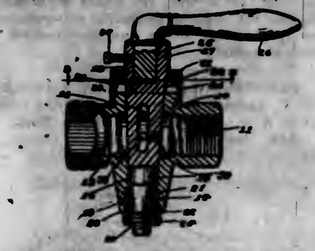
10. In a fluid pressure motor, a toggle connection comprising two complementary members having means of attachment to a piston rod and having spaced curved straps forming half of a rotatable bearing, the straps in one of said members being integrally joined by a cross element, and the straps in the other of said members being integrally joined to form a curved hook adapted to receive the said cross element and interlock therewith.

1,398,328. PISTON-ROD TOGGLE FOR FLUID-PRESSURE MOTORS. WILLIAM H. KELLER and ALBERT SCHINKER, Grand Haven, Mich., assignors to Keller Pneumatic Tool Company, Grand Haven, Mich., a Corporation of Michigan. Filed Apr. 29, 1920. Serial No. 377,507. 3 Claims. (Cl. 74—17.)



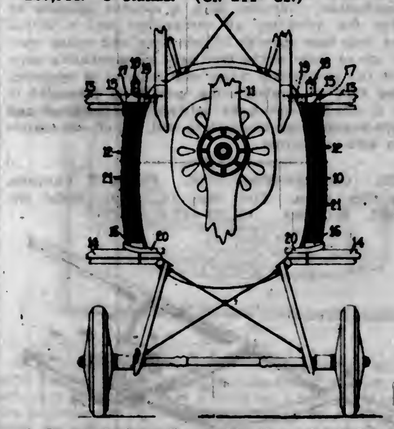
1. A fluid pressure motor having two cylinders in angular relation to each other, pistons therein, a crank shaft and a crank case, in combination with two piston rods each having an end connected with one of said pistons, the opposite end carrying clamping means, a separable part toggle connection bearing upon said crank shaft and rigidly clamped to one of said piston rods, a separable part toggle connection having spaced curved portions bearing upon the first mentioned toggle connection and rigidly clamped to the other of said piston rods, interengaging means for locking in operative position the outer ends of the separable parts of the second mentioned toggle connection, said means comprising integral bars extending across the outer ends of said curved portions, one of said bars carrying an outwardly curved hook adapted to engage the other of said bars between its said curved portions and interlock therewith, and lateral detachably covered openings through said crank case arranged to expose said toggle connections.

1,398,329. STOP OR WASTE COCK. JOHN GRANVILLE KING, Pine Bluff, Ark. Filed Sept. 27, 1920. Serial No. 413,004. 13 Claims. (Cl. 251—97.)



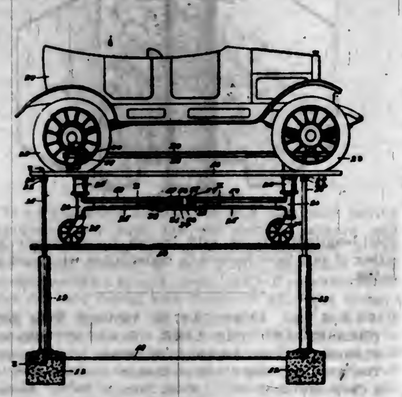
1. A valve of the character described comprising a valve casing having a tapering valve seat, a tapering valve core fitting said seat, a spring operatively engaging the lower end of the core and urging the valve core downward in the seat, the upper end of the valve casin being formed with an upwardly projecting lug having an undercut beveled end face, and a cap engaging over the valve core and rotating therewith, the valve core being provided with a shoulder upon which the cap rests, said cap inclosing the lugs on the valve casing and being provided with an inwardly projecting lug having one end beveled to engage with and wedge beneath the undercut beveled face of the lug on the valve casing whereby to urge the valve core downward in the valve casing when the valve is turned to one position and the lugs engaged.

1,398,330. RADIATOR FOR AIRPLANES. CHARLES B. KIRKHAM, Nassau Boulevard, N. Y., assignor to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y., a Corporation of New York. Filed Dec. 23, 1918. Serial No. 267,944. 8 Claims. (Cl. 244—31.)



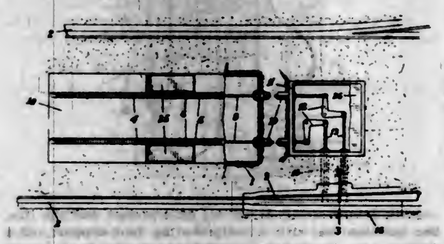
1. In an airplane, the combination, of a body, airplane wings, a water cooled motor, and a radiator for the motor including spaced headers arranged to engage with separate airplane wings.

1,398,331. HOISTING APPARATUS. ARTHUR D. LIGHTNER and EDWARD HOLMES, Toledo, Ohio, assignors to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 7, 1917. Serial No. 205,996. 10 Claims. (Cl. 254—2.)



1. A hoisting apparatus comprising the combination of a frame, adjustable in length and mounted on suitable supporting wheels; a plurality of lifting jacks carried by said frame; an upper frame carried by said lifting jacks and provided with transversely adjustable members and longitudinally adjustable means to receive and support a motor vehicle; and means for simultaneously and equally operating said jacks to lift said motor vehicle.

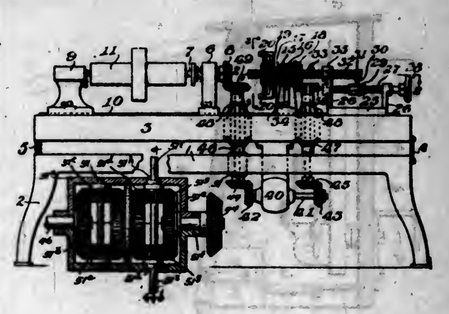
1,398,332. RAILWAY-SWITCH-THROWING DEVICE. ARCHIE J. LINLEY, Lodi, Calif. Filed Oct. 15, 1920. Serial No. 417,206. 1 Claim. (Cl. 246—340.)



In a railway switch, the combination with a movable switch point, of an arm pivoted ahead of the switch and arranged to be moved about its axis by a vehicle on the rails, a rod connected to the switch point and slidably mounted on the arm, and a spring mounted on the rod and bearing against the arm, said spring being arranged to be compressed when the arm is moved and before any movement is imparted to the rod.

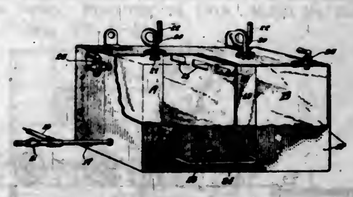
1,398,333. BALANCING-MACHINE. JACOB LUNDORFF, Philadelphia, Pa., assignor to Carlson-Wenstrom Co., a Corporation of Delaware. Filed June 4, 1918. Serial No. 238,139. 13 Claims. (Cl. 73—51.)

1. A balancing machine, comprising a support for a body to be tested, a pair of weights connected to be revolved in unison and adjustable simultaneously in the same direction along parallel paths located upon opposite sides of, and in a plane at right angles to their common



axis of rotation, and means to revolve a body upon said support and said weights in synchronism.

1,398,334. AUXILIARY FUEL-TANK FOR MOTOR-VEHICLES. HARRY LUTSKY, Stapleton, N. Y. Filed July 15, 1920. Serial No. 396,573. 2 Claims. (Cl. 158—46.5.)



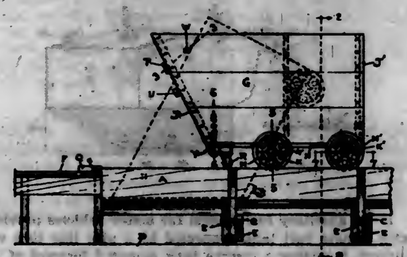
1. An auxiliary fuel system for motor vehicles provided with a main fuel tank connected by a pipe line to a carbureter, including a reserve tank mounted forward of the carbureter and connected to said pipe line to receive a fuel charge from the main tank and to deliver such charge to the carbureter, said reserve tank comprising a receptacle provided with a vertical partition separating the tank into a pressure compartment and a storage compartment, the partition being provided with passages adjacent the upper portion thereof functioning as filling openings for the storage compartment and means connecting the compartments at a point adjacent their bottoms to provide for filling the storage compartment from the pressure compartment and for discharging the storage compartment into the pressure compartment; the said means comprising a by-pass mounted externally of the receptacle and a valve in said by-pass, the arrangement being such as to provide a construction in which the storage compartment may be alternately used as a storage or pressure chamber.

1,398,335. SAFETY-FUSE SWITCH-BOX. WALTER A. HEINRICH and CLAUDE L. MATTHEWS, St. Louis, Mo., assignors to W. N. Matthews and Brother, Inc., St. Louis, Mo., a Corporation of New Mexico. Original application filed Apr. 18, 1917, Serial No. 161,721. Divided and this application filed July 8, 1918. Serial No. 243,746. 2 Claims. (Cl. 217—60.)

1. A fuse box having a door hinged at one edge, means at the free edge of the door for yieldingly latching the same in a closed position, a slotted link pivotally connect-

ed to the door, a stud or projection on the box passing through the slot in said link, and a robust portion on the end of said link for yieldingly engaging said stud or projection to hold said door in an open position.

1,398,336. ANIMAL-FEEDING DEVICE. IVAR MATTSON, Fairfield, Iowa. Filed Apr. 27, 1921. Serial No. 464,983. 12 Claims. (Cl. 104—80.)



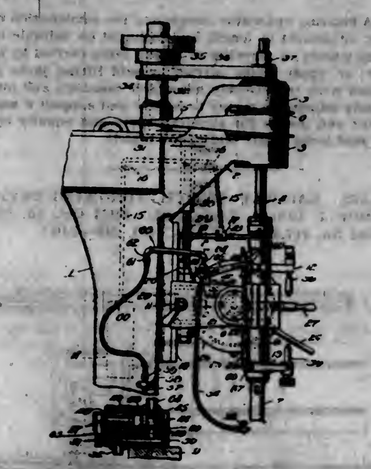
1. In animal feeding devices, the combination of an extended feed-trough having track-ways on its upper edges, a feed truck having a rectangularly shaped receptacle, and four pairs of wheels adapted to run on the track-ways journaled on lower portions of said receptacle, one pair of the wheels being journaled near the meridian line of the receptacle and the other pair of wheels being journaled near to one end of the receptacle, whereby the truck will be nearly balanced when resting on all the wheels and a slight downward pull on the extended end of the receptacle next to the control wheels will cause it to tip downward and dump the receptacle into the trough.

1,398,337. DRAIN-PAN FOR CLOTHES-WRINGERS. WILLIAM H. MEYER, St. Louis, Mo., assignor, by mesne assignments, to The Davis Sewing Machine Company, a Corporation of Delaware. Filed Feb. 7, 1920. Serial No. 357,654. 8 Claims. (Cl. 68—32.)

1. A wringer provided with pressure rolls, a trough located below said rolls to receive water passing therefrom, said trough having a water outlet, and a drain-pan below said trough, said drain-pan comprising water deflectors declined downwardly from opposite sides of the wringer and inlet pockets communicating with the respective water deflectors, each of said inlet pockets being adapted to register with said water outlet to receive the water flowing therefrom, and said drain pan being shiftable longitudinally of said trough to selectively locate either of said inlet pockets in registration with said water outlet.



1,398,338. LUBRICATING DEVICE FOR DRILL-PRESSES AND THE LIKE. JAMES F. MERRIMEE, Cincinnati, Ohio, assignor, by mesne assignments, to The Avey Drilling Machine Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 6, 1919. Serial No. 302,167. 10 Claims. (Cl. 77—55.)



1. In a lubricating device for drill presses and the like, the combination with a reciprocating tool support, of a flexible pipe for delivering lubricant to the tool, a normally stationary valve casing connected to said pipe and to a source of supply, a valve in said casing, and means automatically actuated by said reciprocating support for opening and closing said valve on the working and return strokes respectively of said support, substantially as described.

1,398,339. ART OF MAKING JAMS, JELLIES, AND MARMALADES OF FRUITS. EUDO MONTI, Turin, Italy. Filed Mar. 28, 1919. Serial No. 285,906. 4 Claims. (Cl. 99—11.)

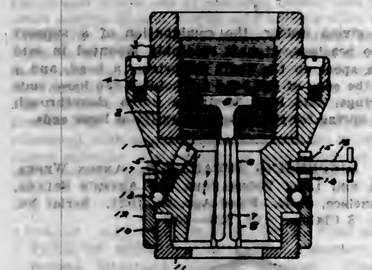
1. The process of preparing pectin which comprises exhausting fruit which contains pectin with water and concentrating the pectic solution by warming in vacuum, the temperature of the pectic solution being at all times kept below the temperature at which the flavoring and dietetic ingredients of the particular fruit treated would be altered.

1,398,340. ALARM MECHANISM. FREDERICK V. PETERS, Los Angeles, Calif. Filed Jan. 4, 1921. Serial No. 434,852. 3 Claims. (Cl. 116—91.)



1. In an alarm the combination of a base plate having an upturned arm with the end turned outward and pierced; an attaching bolt mounted in said arm; a cup shaped casing secured to said plate; an alarm clock mechanism mounted in said casing, the bell of which forms a cover for said casing and means to wind the spring; another shaft mounted in said casing, said last shaft having an operating arm that projects through a slit in the casing and a plurality of projecting pins, one of said pins being adapted to engage the oscillating member of the alarm mechanism and prevent its operation when the device is positioned and set for use, and another pin being adapted to engage the trigger lug when positioned and set for use; and a trigger adapted to hold the other parts of the device against operation as long as the door or window or transom is not moved after the device is set.

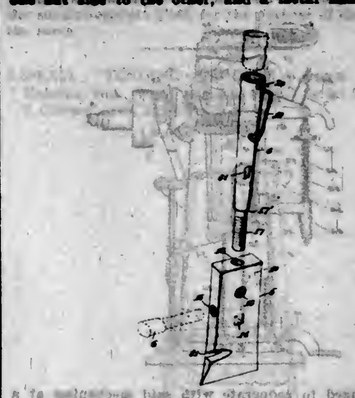
1,398,341. CHUCK. EMIL L. PFUNDER, Windsor, Conn., assignor to The J. M. Ney Company, Hartford, Conn., a Corporation of Connecticut. Filed May 19, 1919. Serial No. 298,077. 5 Claims. (Cl. 279—59.)



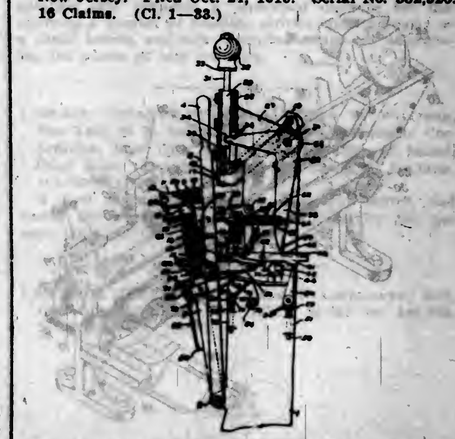
1. A chuck comprising a body having a tapering opening, a tapering spring collet located in said opening and provided with jaws, said jaws being contracted by the tapering walls of the opening when forced therein, a flanged collar movable longitudinally on the body with the flange engaging the larger end of the collet and adapted to force it into the tapering opening, a sleeve rotatably mounted on the body, means connecting the sleeve and collar so that the rotation of the sleeve will move the collar longitudinally, said sleeve and body being provided with complementary ball grooves, with an opening through the body to said grooves, balls in said grooves, and means closing said opening.

1,398,342. TRAPPER'S COMPOUND TOOL. CHESTER W. PLEASS, Sands, Mich. Filed July 16, 1920. Serial No. 396,732. 2 Claims. (Cl. 306—30.)

1. A tool of the character described, comprising a solid metal tool-head having one edge sharpened to form a cutting blade and provided with an axial threaded aperture in the butt end and a side threaded aperture adjacent the butt-end and extending through the tool-head from one flat side to the other, and a metal handle member having a threaded stem at one end to alternately engage in said axial and side apertures, and also formed with a socket in its other end to receive a wooden handle.



1,398,343. HEEL-BUILDING MACHINE. JOSEPH H. PORA, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 24, 1919. Serial No. 332,926. 16 Claims. (Cl. 1—33.)

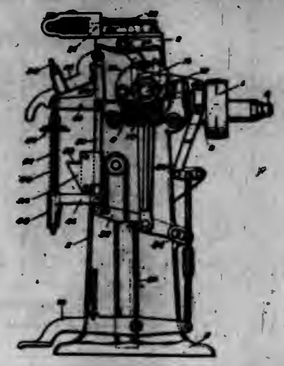


1. In a heel building machine, the combination of receiving means into which a pile of lifts may be built into the form of a heel, means for securing the pile of lifts together, and means rendered effective by movement of the pile of lifts to position for treatment by the securing means to control the latter and permit its operation only when the heel conforms to a predetermined standard.

1,398,344. LAST-PULLING MACHINE. JOHN H. RICHARDSON, Melrose Highlands, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 27, 1917. Serial No. 193,599. 28 Claims. (Cl. 12—1.)

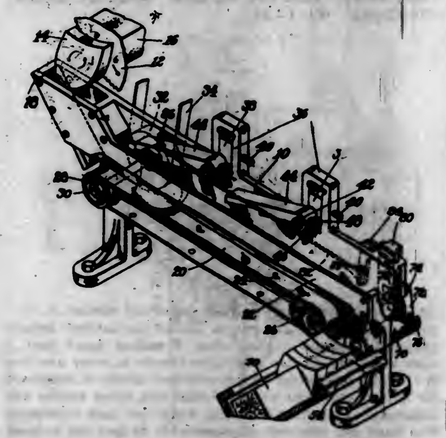
1. A machine of the class described having, in combination, shoe holding means, last holding means, mechanism

for effecting relative movement of the said holding means, including movement lengthwise of the shoe and last to separate a shoe and its last, and unyielding abutment



means arranged to coöperate with said mechanism at a determinate point in said relative separating movement to augment said relative lengthwise movement.

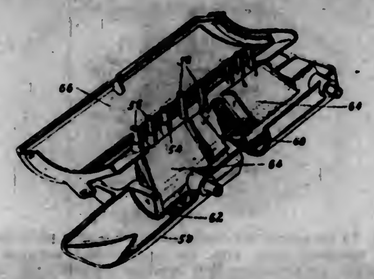
1,398,345. MACHINE FOR ARRANGING HEEL-BLANKS. RALPH C. SIMMONS, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 24, 1918. Serial No. 259,579. 15 Claims. (Cl. 12—42.)



1. The combination with a heel blank receiving trough, of means for delivering blanks in succession to the trough, a reciprocating plunger having a limited stroke arranged to engage and advance the column of blanks in the trough, and means for varying the stroke of the plunger to accommodate blanks of different thicknesses.

1,398,346. FASTENER-FEEDING MECHANISM. WILLIAM C. STEWART, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Jan. 23, 1919, Serial No. 272,683. Patent No. 1,364,215, dated Jan. 4, 1921. Divided and this application filed Mar. 3, 1920. Serial No. 362,960. 11 Claims. (Cl. 1—6.)

11. In mechanism of the class described, the combination with means for separating individual fasteners from a source of supply and for releasing said fasteners, of a fastener receiving tube extending downwardly from said separating means and displaceable from its operative position, and a member controlled by said tube to move



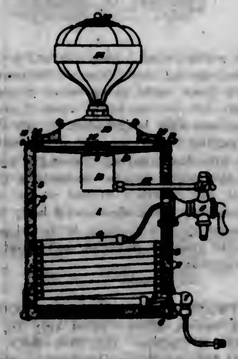
automatically in consequence of such displacement of the tube into a position beneath the point of delivery of the fasteners for intercepting fasteners released from the separating means after the tube has been displaced.

1,398,347. TWINE-HOLDER. WILLIAM J. STOTT, Worcester, Mass. Filed Oct. 22, 1920. Serial No. 418,661. 5 Claims. (Cl. 242—140.)



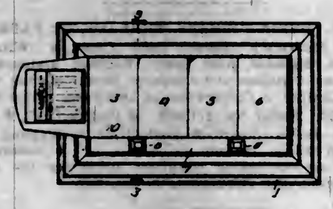
2. In a string holder, the combination of a support having two bearings, a shaft rotatably mounted in said bearings, a spool on the shaft comprising a head, and a spring on the edge of the head for holding the loose ends of the strings, said head having a notch therethrough under said spring for receiving a plurality of loose ends.

1,398,348. DISPENSING APPARATUS. ANTON WEBER, Oakland, and LEON VOORSANGER and ARTHUR SELLER, San Francisco, Calif. Filed Apr. 26, 1921. Serial No. 464,654. 8 Claims. (Cl. 225—26.)



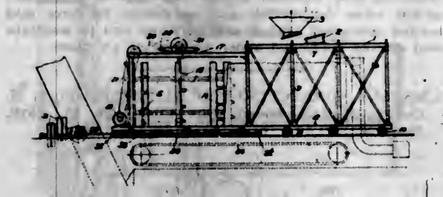
1. A beverage cooling and dispensing apparatus comprising a cooling chamber, a removable cover therefor provided with a passage therethrough, a decanter detachably carried by the cover to extend upwardly therefrom and disposed with its discharge communicating with said cover passage, said decanter and cover removable as a unit from said chamber, a valve controlled cooling pipe within the chamber and disposed with its inner end to coöperate with said cover passage and a portion of said pipe extending exteriorly of the chamber, a threaded coupling connection between the cover passage and the inlet end of said cooling pipe, whereby on the rotation of said cover the same is capable of securing to and removal from the chamber and a valve adapted for interrupting the flow of liquid from the decanter when the cover and decanter are removed as a unit from the chamber.

1,398,349. DESK-PAD. MILTON WEINMAN, Chicago, Ill. Filed Apr. 12, 1920. Serial No. 373,203. 3 Claims. (Cl. 281—38.)



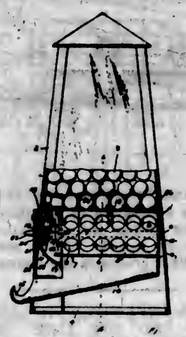
1. A desk pad comprising a base having a portion which is supported by the desk, said base being higher at one end than at the other and having an upper inclined face, a plurality of sheets of paper carried by said base and resting upon said inclined face so that one end of said sheets is lower than the other end, each sheet being divided into a series of sections upon which memoranda may be placed, a holding piece of rigid material on the top of said sheets and at one edge thereof and covering a small portion of said sheets, said holding piece removably holding the edges of said plurality of sheets of paper in position on said base, the material of the said sections being perforated substantially in alinement with the edge of said holding piece so that the sections may be separately and independently removed while the holding piece is in position, an extension connected with said base and in alinement with said sheets, said extension carrying a sectional calendar, the sections of said sheets of paper being removable independent of said calendar.

1,398,350. APPARATUS FOR USE IN THE MANUFACTURE OF SUPERPHOSPHATE. FREDERICK WILLIAM ROGERS WILLIAMS, London, England. Filed Feb. 4, 1919. Serial No. 274,924. 3 Claims. (Cl. 83—6.)



1. Apparatus for use in the manufacture and disintegration of superphosphate comprising a stationary bed for the reception of the block of superphosphate, a reservoir mounted upon a truck-like frame and adapted to reside above said stationary bed and inclose said block of superphosphate and also for movement above said block, a rotating cutter carried by said truck-like frame exterior to the reservoir whereby the movement of said frame effects removal of the reservoir from above the stationary bed and corresponding movement of the cutter toward the superphosphate block for the purpose of disintegrating the same.

1,398,351. VENDING-MACHINE. BRICE WILLIAMS, Kokomo, Ind. Filed Aug. 18, 1920. Serial No. 404,428. 2 Claims. (Cl. 211—8.)



2. In a vending machine a cylinder having series of openings therein for the reception of vendible articles, an additional cylinder having a plurality of openings arranged singly therein, independently operable means for rotating said cylinders a prescribed distance for discharging a number of vendible articles simultaneously or a single article, and coin controlled means for determining the release of said cylinders.

1,398,352. PEANUT-BUTTER. WALTER W. WILLISON, New York, N. Y., assignor to Thermokept Products Corporation, New York, N. Y., a Corporation of Maine. Filed Sept. 15, 1919. Serial No. 323,868. 1 Claim. (Cl. 99—11.)

A food compound consisting of peanut butter, and water, the water content being substantially ten per cent. (10%) of the peanut butter.

1,398,353. HYDROPLANE. MAX WINCKELMANN, Kiel, Germany. Filed Feb. 28, 1921. Serial No. 448,655. 2 Claims. (Cl. 244—2.)

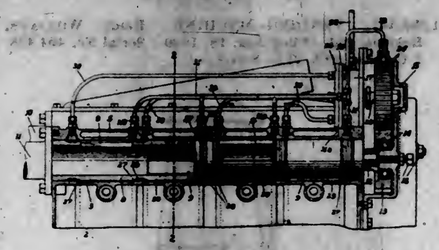


1. In a hydroplane, a decked boat-shaped buoyant body, supporting planes at the sides of the body and at (or near) the height of its deck, propellers with shafts at the sides of the said body, and members adapted to hold the said propeller shafts at the height of the deck of the body during the flight of the hydroplane and to hold the shafts in a raised position when the hydroplane alights or rises from the water.

1,398,354. INTERNAL-COMBUSTION ENGINE. HENRY WRIGHT, Fresno, Calif. Filed Oct. 28, 1919. Serial No. 332,719. 9 Claims. (Cl. 123—59.)

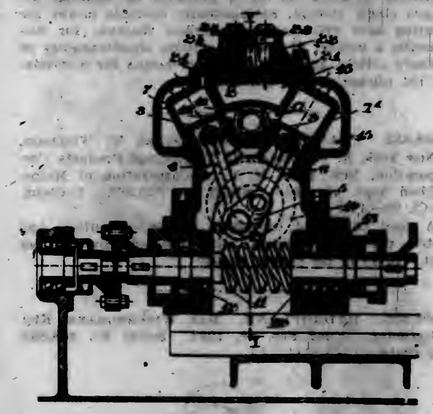
1. In an internal combustion engine, in combination with a cylinder thereof, a cylindrical casing connected

with the cylinder and opening therefrom, a valve sleeve rotatably mounted in the casing and having a port adapted to communicate with the cylinder opening at some period in its rotation, a peripheral oil groove in the sleeve beyond each end of the port, a longitudinal



groove in the casing connecting the peripheral grooves, means whereby a circulation of oil through the grooves may be had, and means for automatically cutting off the flow during the passage of the port in the sleeve over the longitudinal groove in the casing.

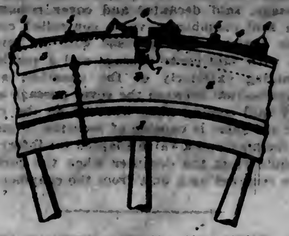
1,398,355. COMPRESSED-AIR MECHANISM FOR MOTOR-CARS AND THE LIKE. MARIUS ADNOT, Caluire, France, assignor to Société Lyonnaise d'Industrie Mecanique, a Societe anonyme of France. Filed May 2, 1921. Serial No. 466,144. 1 Claim. (Cl. 230—24.)



Air compressing mechanism for motor cars and the like comprising inclined air compressing cylinders, pistons in said cylinders, connecting rods connecting said pistons to said crank shaft, a worm wheel on said crank-shaft, a worm gearing with said worm wheel, an elastic joint coupling said worm to the motor shaft, a chamber in communication with said cylinders, a piston valve movable in said chamber, a spring acting on said piston valve which obturates the air admission ports of said cylinders when the pressure of the compressed air attains a determined value and valves regulating the delivery of the compressed air.

1,398,356. ANTISKID DEVICE. STEVEN BEKER, Unionville, Mich., assignor of one-half to Charles B. Rathbid, Unionville, Mich. Filed July 22, 1920. Serial No. 398,189. 1 Claim. (Cl. 152—16.)

A tire protecting armor comprising a series of hingedly connected links adapted to surround the tire, each link having a rectangular opening in the tread portion thereof, a central transverse rib extending between the side walls

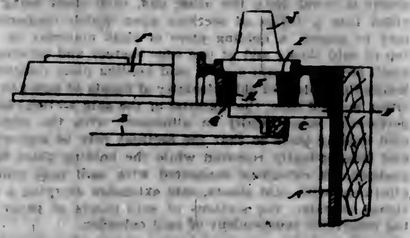


of the opening and spur blocks carried by the tread links and adjacent each end of the opening.

1,398,357. DYEING FIBERS, THREADS, OR FABRICS. JOHN FAIRWEATHER BRIGGS and CHARLES WILFRED PALMER, Spondon, near Derby, England, assignors to American Cellulose and Chemical Manufacturing Company Limited, a Corporation of Delaware. Filed Sept. 21, 1920. Serial No. 411,805. 6 Claims. (Cl. 8—5.)

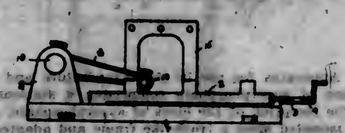
1. The herein described method of facilitating the dyeing of fibers, threads or fabrics of or containing cellulose acetate, which comprises subjecting the same to the action of a thiocyanate in solution.

1,398,358. BATTERY-COVER. GLENN J. BUNDY, Detroit, Mich., assignor to Detroit Battery Company, Detroit, Mich., a Corporation of Michigan. Filed June 29, 1918. Serial No. 242,561. 2 Claims. (Cl. 204—29.)



1. The combination with a battery plate and a terminal connection therefor, of a cover having an apertured capped portion through which said terminal passes, a resilient gasket surrounding said terminal within said cup, a sealing compound in said cup above said gasket and a petticoat above said sealing compound and surrounding said terminal within said cup, said resilient gasket being contractible and expansible to force said sealing compound against said petticoat and to maintain said sealing compound under pressure at all times.

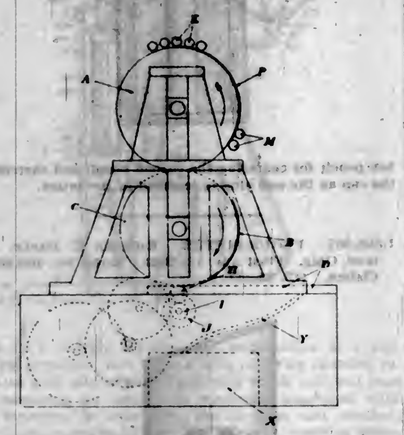
1,398,359. CONNECTING-ROD ALINER. SAMUEL M. CAMPBELL, Rock Island, Ill. Filed Apr. 21, 1919. Serial No. 291,707. 5 Claims. (Cl. 33—180.)



4. A device of the class described, comprising a plate provided on its upper face with a piston supporting

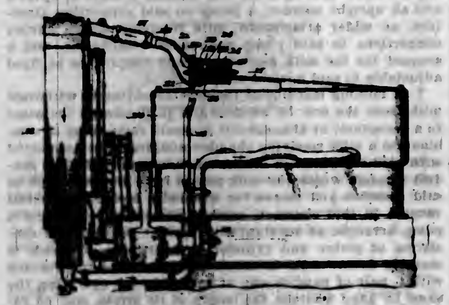
device; a piston measuring device mounted at one side of said piston supporting device; and means for supporting the connecting rod of a piston on a line parallel with the plane of said measuring device.

1,398,360. PRINTING-MACHINE. VICTOR EUGENE LOUIS CHAUVETTE, Paris, France. Filed July 1, 1920. Serial No. 393,354. 4 Claims. (Cl. 101—130.)



1. A printing machine comprising a rotary printing cylinder, a transfer cylinder, said cylinders running constantly and at the same speed, and being mounted respectively in a fixed position with regard to each other, a reciprocating bed, means for rotating the cylinders, means for reciprocating the bed, a printing surface secured on the printing cylinder and extending over one third of the circumference of the cylinder and an ink table constituted by the remaining two thirds of said circumference and adapted to engage inking rollers suitably disposed.

1,398,361. HYDROCARBON-MOTOR. HAROLD D. CHURCH, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Aug. 8, 1917. Serial No. 185,218. 3 Claims. (Cl. 123—178.)



1. A hydrocarbon motor having an aperture in its top opening from the water jacket, a housing secured over said aperture with its interior in communication with said water jacket through said aperture and having a discharge passage to the radiator and a passage leading to the return from the radiator, and a thermostatic valve within said housing controlling said passages.

1,398,362. DETONATING ALARM. WILLIAM H. COOK, Toledo, Ohio. Filed Jan. 6, 1921. Serial No. 435,362. 11 Claims. (Cl. 116—83.)



1. A detonating alarm embodying a holder for a detonator, a mounting for the holder including a flat spring, a base for the mounting including an impact receiver against which the holder may throw a detonator, and a trigger carried from the base to engage and hold the holder against spring action, said holder being carried and anchored by the flat spring against movement other than directly to strike the impact receiver when released by the trigger.

1,398,363. HAND-STAMP. WILL T. CASSELLS, Cincinnati, Ohio. Filed Sept. 19, 1921. Serial No. 501,629. 3 Claims. (Cl. 101—111.)



2. In a device of the character described, a series of rolls and means for supporting same, a tension means, a series of endless rubber bands passing over said rolls and said tension means, a handle, means connected to the supporting means for the rolls and said handle, whereby by the turning of the handle the said tension means are increased or diminished.

1,398,364. SAMPLE-DISPLAY DEVICE. JACOB DAVIDSON, New York, N. Y. Filed May 14, 1920. Serial No. 381,263. 3 Claims. (Cl. 211—34.)

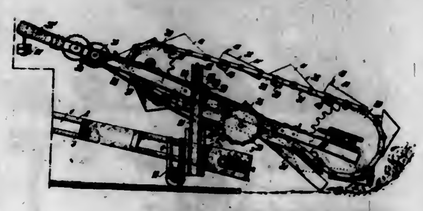
1. A display device comprising a pair of sections of stiff material made from a single length of such material and being folded over into substantially parallel relation to

receive flatly therein a portion of a merchantable article being displayed, another portion of such article adapted to



lie exteriorly of the sections and in a flat condition against the outer face of one of said sections.

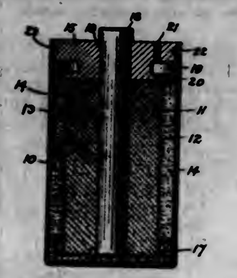
1,398,365. MATERIAL-LOADING MACHINE. ARTHUR C. DENNIS, Seattle, Wash. Filed Apr. 7, 1920. Serial No. 372,040. 21 Claims. (Cl. 37—24.)



1. In a machine of the character described, the combination with a boom suspended intermediate its ends to permit universal movement about the point of suspension, and having a traveling excavating element; of a material receiving member located beneath the boom and over which the excavating element is ascendable.

1,398,366. DRY CELL. HAROLD DE OLANETA, New Haven, Conn., assignor to Winchester Repeating Arms Company, New Haven, Conn., a Corporation of Connecticut. Filed Sept. 2, 1919. Serial No. 321,068. 31 Claims. (Cl. 204—29.)

1. A dry cell of the Leclanché type comprising a sheet metal cup, a cartridge therein of less height than the cup having an upwardly projecting carbon pencil as a part thereof, a body of paste interposed between the side surface of the cartridge and the side wall of the cup and extending approximately to the level of the upper cartridge surface, and a preformed end plug of suitable insulating material snugly fitted within the mouth portion of the cup and having an opening whereby it is fitted over the car-



bon pencil for centering the carbon pencil and cartridge in the cup as the end plug is inserted in the latter.

1,398,367. FLOUR-SIFTER. RICHARD T. EARLE, Portland, Oreg. Filed Apr. 13, 1921. Serial No. 460,867. 5 Claims. (Cl. 83—60.)



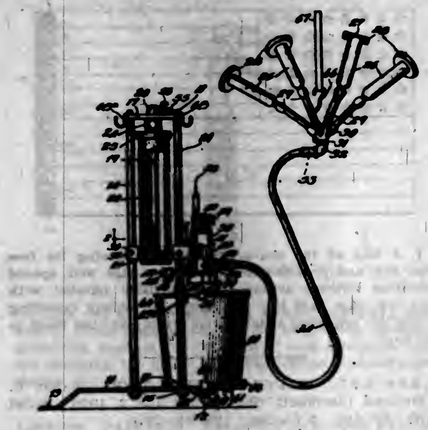
1. A flour sifter comprising a cup, a foraminous bottom in said cup, a helical coil spring extending across said bottom, and means for alternately flexing and releasing said spring.

1,398,368. MILKING-MACHINE. CHARLES ENDORF, Jr., Chicago, Ill., assignor to The Burton Page Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 14, 1918. Serial No. 249,790. 14 Claims. (Cl. 31—98.)

1. In a milking machine, the combination of a supporting structure having a base to sustain a milk receptacle and an upright member, a pump on said supporting structure, an udder attachment, milk receiving means having connections to said pump and udder attachment, and a support for the milk receiving means adapted to be fixed adjustably to said upright member.

7. A milking machine of the type operating to withdraw milk from the cow by suction and to discharge the same to a receptacle at atmospheric pressure comprising in combination a milk receiving chamber adapted to be associated with said receptacle, a cluster of teat cups, a flexible conduit through which the milk passes from the teat cups to said chamber and means for gradually creating a partial vacuum in said chamber, conduit and cups, comprising a pump arranged in substantially upright position and consisting of piston and cylinder members one of which is movable downwardly to create a suction and is provided with a pair of handles one at each side for operating the same by hand whereby the length of its stroke may be varied by the operator to vary the intensity of each suction impulse applied to the cow's udder.

9. In a milking machine, the combination of teat cups, a milk receiving chamber with which the teat cups are connected, a hand operated exhaust pump of variable stroke for exhausting the air from said chamber, and a pressure gage to indicate the condition of pressure in the milk receiving chamber while the pump is being operated.



13. In a milking machine, the combination of a supporting structure, teat cups, a milk receiving chamber associated with said structure and with which said teat cups are connected, an exhausting apparatus associated with said structure for exhausting the air from said chamber, and clamping means for clamping the milk receiving chamber to said structure so that it may be readily removed therefrom.

14. In a milking machine, the combination of an udder attachment, an exhausting apparatus adapted to produce intermittent suction impulses, a milk receiving chamber connected with said exhausting apparatus and udder attachment from which and the udder attachment substantially all of the milk is discharged automatically between each suction impulse of the exhausting apparatus, said exhausting apparatus comprising piston and cylinder elements, one of which is stationary and the other of which has a relatively long stroke and is capable of movement by the operator of the machine for variable distances and at variable speeds, for the purpose specified.

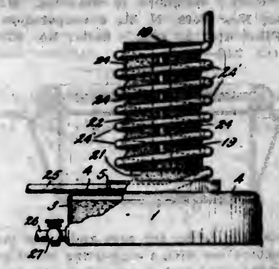
1,398,369. DOOR-LOCK. GEORGE ERNE, Kreuzlingen, Switzerland. Filed Apr. 29, 1920. Serial No. 377,651. 2 Claims. (Cl. 70—29.)



2. A door lock comprising a bolt, independently operable handles for operating said bolts, separate alined spindles connected with said handles, a spur lever connected with each spindle at its inner end for independently retracting said bolt, and a key-operated blocking device for the door bolt.

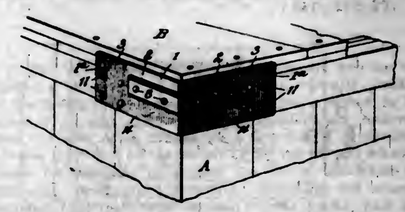
1,398,370. LIQUID-FUEL VAPORIZER. GEORGE P. EUSTIS, Washington, D. C. Filed Nov. 9, 1920. Serial No. 422,897. 14 Claims. (Cl. 158—97.)

1. A method of burning alcohol without a visible flame which consists in causing the alcohol to be absorbed by a stove comprising a porous and mineral body, supplying oxygen thereto, igniting the body and maintaining a flame until the same is at a red glow, shutting off the



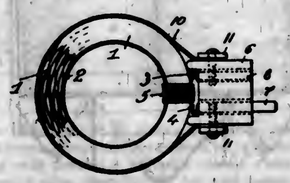
supply of oxygen until the flame is extinguished, then admitting oxygen in sufficient quantities only to maintain the stove at a red glow and without a visible flame.

1,398,371. CORNER-IRONS FOR BASKETS, BOXES, &c. FREDERICK W. GOEDEKE, Evansville, Ind. Filed Mar. 31, 1921. Serial No. 457,401. 4 Claims. (Cl. 217—69.)



1. A corner iron for boxes, baskets or the like, comprising a right-angle bracket adapted to fit against and be secured to the outside of the corner of the box and having longitudinally-disposed channels on the inner faces of the arms of the angle-bracket formed by pressing out the metal thereof, said channels joining at the angle of the bracket, and forming an embossed housing, and a horizontally-disposed plate adapted to bridge across the space between the arms of the bracket at the inside thereof, said plate being adapted to bear against the top or the bottom edge of the corner of the box or basket, and having at its outer edges perpendicular flanges adapted to fit and be secured within the channels and to be housed therein to permit the arms of the bracket to be flat against the box.

1,398,372. COIL-MOUNTING. ROBERT F. GOWEN, New York, N. Y., assignor to De Forest Radio Telephone and Telegraph Company, New York, N. Y., a Corporation of Delaware. Filed July 23, 1920. Serial No. 398,521. 13 Claims. (Cl. 175—362.)



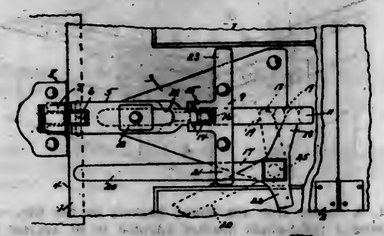
1. The combination with a wire coil having wire terminals, of a block of insulating material having electrical terminals therein connected to said wire terminals, and a strap extending around the outer surface of said coil, and secured at its ends to said block.

1,398,373. RETAINING DEVICE FOR GAGE-CASES. Carl E. Chaseman, Fairfield, and Herbert B. Chesman, Stratford, Conn., assignors to Manning, Maxwell & Moore, Inc., New York, N. Y., a Corporation of New Jersey. Filed Apr. 2, 1920. Serial No. 370,752. 5 Claims. (Cl. 248—28.)



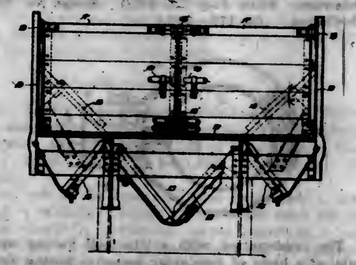
1. In a retaining device for gage and other instrument cases, the combination with a supporting board having an opening therethrough, and a case body to be inserted through said opening, of spring arms secured to that portion of said body which extends through said opening, said arms constructed to engage the inner wall or edge of the opening to retain the case body in position.

1,398,374. LATCH. John A. Gustus, Detroit, Mich. Filed Dec. 19, 1919. Serial No. 346,097. 9 Claims. (Cl. 292—143.)



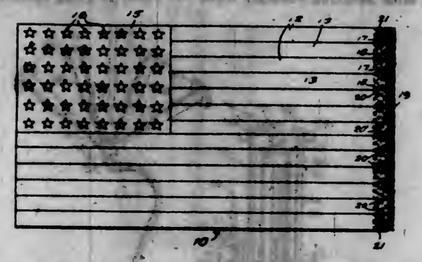
1. The combination with a hinged door, of a bolt at the swinging edge of said door and extending transversely thereof, a lever pivoted at its inner end upon said door and having an upwardly extending arm connected to said bolt to move the same longitudinally, and a handle at its outer end, said lever normally retaining said bolt in its outer position, and a guide for said bolt provided with a projection adapted to overlap said lever and to be engaged thereby when the same is actuated to move said bolt inwardly and to move said door outwardly.

1,398,375. DUMP-CAR. Harry S. Hart, Chicago, Ill., assignor to Rodger Ballast Car Company, Chicago, Ill., a Corporation of Maine. Filed Sept. 12, 1918. Serial No. 253,704. 10 Claims. (Cl. 105—243.)



6. A dump car including sides, ends and a bottom, and side swinging door pivotally connected to the sides of the car for dividing the same into compartments.

1,398,376. FLAG. John H. Simmons, Norfolk, Va. Filed Mar. 25, 1921. Serial No. 455,638. 12 Claims. (Cl. 116—173.)



1. A flag of the character described having its free edge raw and provided near such raw edge with spaced retarding stitches arranged substantially parallel with said raw edge, said flag also having stitchings extending across the retarding stitches and serving to bind them to the flag.

1,398,377. VALVE-GRINDING TOOL. Harry C. Hughes, Cincinnati, Ohio. Filed Apr. 2, 1920. Serial No. 370,849. 5 Claims. (Cl. 51—29.)



1. A valve grinding tool comprising a tapered bar, slots in the bar, pins in the slots and slidable endwise therein and adapted to be separated by the wedge action of the bar, retaining means for maintaining the pins slidably in the slots, said pins being adapted to enter the holes in a valve head for the purpose described.

1,398,378. COTTON PRODUCT AND PROCESS FOR MAKING THE SAME. Raymond W. Jacoby, Garnerville, N. Y., assignor to Rockland Finishing Co. Inc., a Corporation of New York. Filed Dec. 10, 1920. Serial No. 429,771. 8 Claims. (Cl. 8—2.)

1. As a new product, an unbleached cotton yarn formed of fibers from which a substantial amount of the natural waxes and oily substances has been removed.

1,398,379. SAFETY-RAZOR. John L. King, New York, N. Y., assignor to Rotary King Safety Razor Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 13, 1920. Serial No. 409,871. 4 Claims. (Cl. 30—12.)

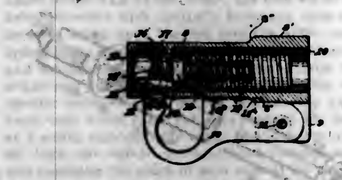
1. In a safety razor, the combination of a supporting member, a blade movably mounted thereon, a cam roller

mounted in bearings formed in said supporting member, an oscillating member pivotally secured at one end thereof to the rear edge of the supporting member, a projection on said oscillating member engaging the cam roller,



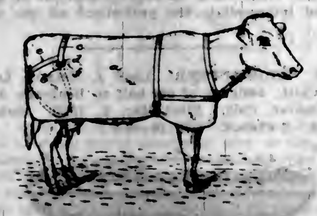
the free end of said oscillating member extending downwardly through an opening in the supporting member, a projecting head on the free end of said oscillating member engaging the blade and transmitting a reciprocating motion thereto.

1,398,380. PADLOCK. Wasyl Kuc, Winnipeg, Manitoba, Canada, assignor of one-half to Jack Sorewsky, Fisher Branch, Manitoba, Canada. Filed Jan. 19, 1920. Serial No. 352,418. 1 Claim. (Cl. 70—105.)



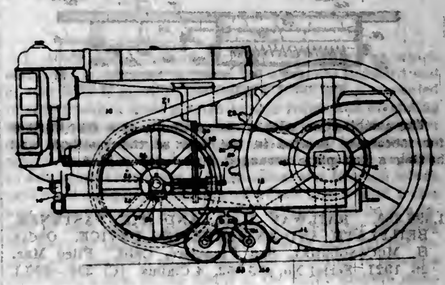
A lock of the class described comprising a circular casing having an enlarged rear end defining a beveled annular shoulder, spaced lugs formed on and extending laterally from the enlarged rear end of said casing, a shackle having one end pivoted between said lugs with an inner edge thereof offset to provide a beveled shoulder for engagement with the beveled casing shoulder, compensating for strains when the shackle is subjected to end thrusts, a keeper portion upon the offset end of said shackle projecting into the casing, and a sliding bolt within the casing adapted to engage the shackle keeper.

1,398,381. ANIMAL-COVER. Richard T. Laacke, Milwaukee, Wis. Filed June 26, 1920. Serial No. 392,468. 4 Claims. (Cl. 54—24.)



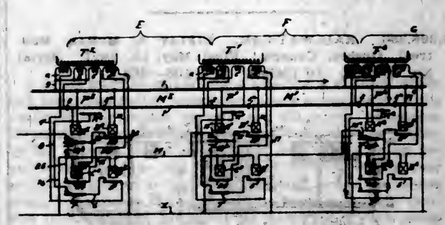
1. An animal cover comprising a blanket formed adjacent its longitudinal center and over the hips with openings, leg straps attached to the rear end of the blanket on each side of and adjacent the longitudinal center thereof and adapted to pass downwardly and forwardly inside of the hind legs of an animal and thence upwardly through said openings, and fastenings for detachably connecting the other ends of the straps with the blanket adjacent said openings.

1,398,382. CHAIN-TREAD TRACTOR. John W. Lambert and Alvin Ray Lambert, Anderson, Ind. Filed Dec. 14, 1918. Serial No. 266,760. 9 Claims. (Cl. 305—8.)



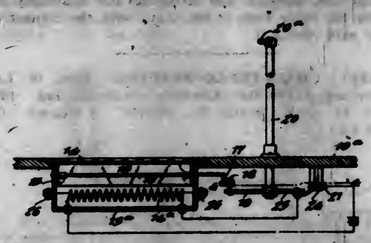
1. The combination with a conventional tractor including a body, driving wheels, an axle centrally pivoted to the body, and another pair of wheels adapted to be mounted on said axle, the latter wheels being removed from the axle, of an endless track attachment comprising a frame journaled on the mounting for the driving wheels, means for pivotally connecting the end of the frame to said axle, means for operatively mounting the wheels removed from said axle in the tractor frame, and an endless track device trained around each of the driving wheels and the corresponding other wheel, substantially as set forth.

1,398,383. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. Lloyd V. Lewis, Edgewood borough, Pa., assignor to Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Original application filed Mar. 12, 1915, Serial No. 13,853. Renewed as Serial No. 270,740, filed Jan. 11, 1919. Original application divided and this application filed Feb. 25, 1918. Serial No. 217,309. 9 Claims. (Cl. 246—38.)



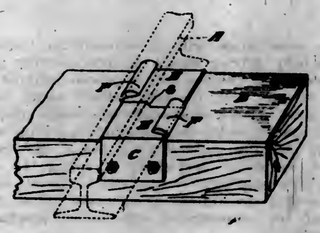
9. In combination, a block of railway track, a track-way impulse device for said block, a stick relay for controlling said device, a normally closed main circuit and a normally open stick circuit for said relay, means controlled by a train in said block for opening said main circuit, and means controlled by a train entering said block for closing said stick circuit before opening said main circuit and for keeping said stick circuit closed until the train has passed said impulse device.

1,398,384. FOOT-WARMER FOR CAR-PLATFORMS. Leo Lomma, Buffalo, N. Y. Filed Apr. 6, 1920. Serial No. 371,883. 1 Claim. (Cl. 219—34.)



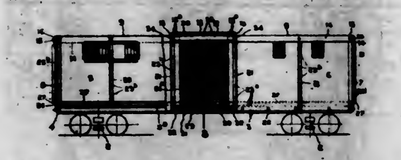
The combination with a car-vestibule, of a foot-warmer for motormen located in the floor of the vestibule and having a top plate arranged flush with said floor.

1,398,385. RAILWAY RAIL AND TIE FASTENER, BED-PLATE, AND ANTICREEPING DEVICE. Oscar H. McConoughey, San Francisco, Calif. Filed Mar. 26, 1921. Serial No. 455,952. 4 Claims. (Cl. 238—290.)



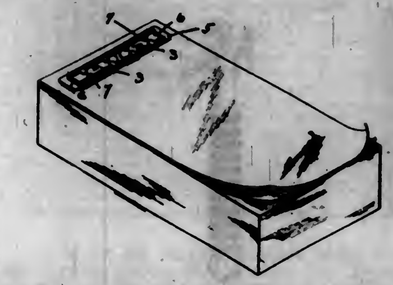
1. A combination rail and tie fastener and bed plate for railways, consisting of a pair of plates, each consisting of a single piece of metal L shaped in cross section, having one inner face adapted to be fastened to the side of a tie and the other inner face adapted to cover the top of the tie at the intersection of the rail and transversely therewith, forming one-half of a bed plate therefor and having an upwardly and inwardly bent member at one end to engage and grasp one rail base flange, said plates applied in pairs on opposite sides of a tie, substantially as described.

1,398,386. RAILWAY-CAR. Finlay A. McRae, Montreal, Quebec, Canada. Filed May 13, 1921. Serial No. 469,368. 10 Claims. (Cl. 105—363.)



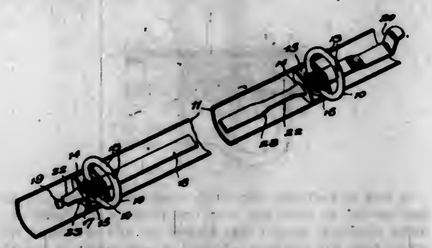
1. A railway car including a knock-down body having a door opening and roof detachably mounted thereon, said roof consisting of unitary sheet-metal end sections and an intermediate section the abutting edges of the sections being bent back in hook form and detachably interlocking, and the outer edges of the intermediate section being extended laterally to present portions overhanging the door opening.

1,398,387. BINDER FOR SHEETS, LEAVES, AND THE LIKE. Hubert M. Morris, San Francisco, Calif. Filed Apr. 26, 1920. Serial No. 376,450. 3 Claims. (Cl. 24—188.)



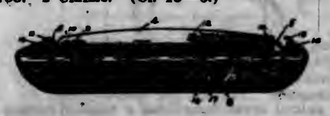
1. As an article of manufacture, a cap or locking plate for sheet binders consisting of a strip having transverse slots adjacent to its ends to receive binding tongues, and having upwardly projecting bendable lugs punched from the body of the strip and adapted to be folded down over binding tongues laid down on the strip.

1,398,388. LOOSE-LEAF BINDER. William Harold Murphy, Independence, Mo. Filed Feb. 5, 1920. Serial No. 356,365. 6 Claims. (Cl. 129—24.)



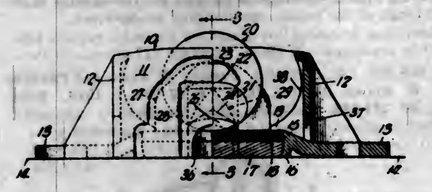
1. In a loose leaf binder, the combination with the back, of binding rings each comprising a pair of mating binding posts or prongs pivotally mounted on said back, transversely spaced projections on the binding posts, said projections being on the exterior of said posts and located below the binding surfaces of the posts, a locking bar below said posts and positioned between the projections of each of said binding rings, said bar being of reduced width adjacent each pair of binding posts to form cam surfaces on each of its sides, said cam surfaces being adapted to engage the projections on said posts to close the binding rings, and means independent of the bar for opening said rings when the reduced portions of the bar are moved intermediate the projections on the binding posts.

1,398,389. SHOE-BUFFER. Leon J. Nelson, Los Angeles, Calif., assignor of one-half to Benjamin A. Metcalf, Denver, Colo. Filed Mar. 2, 1920. Serial No. 362,733. 2 Claims. (Cl. 15—6.)



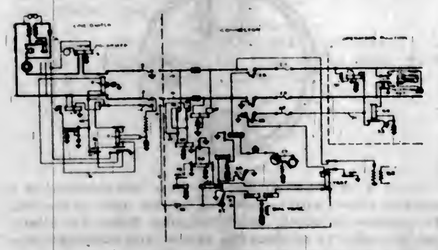
1. A shoe buffer comprising a handle-body, a hook swiveled to said body near one end thereof, a hook yieldingly connectible with said body near the other end thereof, clamp-members detachably engageable with said hooks, and facing-strips having the ends thereof held by said clamp-members and extending from end to end of the body across one face thereof.

1,398,390. ANTIFRICTION-BEARING. Hubert M. Perry, Chicago, Ill., assignor to Sophie L. Woods, Chicago, Ill. Filed June 3, 1920, Serial No. 386,184. Renewed Oct. 8, 1921. Serial No. 506,488. 3 Claims. (Cl. 64—64.)



3. In a side bearing, the combination of an open top casing having side and end walls, means providing a bearing plate at the bottom of said casing, a roller in said casing capable of a limited rolling movement on said bearing plate from the center toward either end of the casing, said roller having overbalance extensions at its ends on one peripheral side of the roller, lugs projecting outwardly from the ends of said overbalance extensions near the periphery thereof, said lugs being of flat, elliptical cross section arranged with the greatest diameter at a right angle to the axis of the roller, the side walls of the casing being provided with centrally arranged, larger and smaller recesses which open the one into the other, said larger recesses being adapted to receive the overbalance extensions and the smaller recesses being substantially triangular in shape and adapted to receive said lugs, the sides of said smaller recesses being curved downwardly and outwardly from each other from the apex toward the base, which is of a width substantially equal to the width of said elliptical lugs, the curved sides of said recesses coacting with and engaging the sides of said lugs at all times to prevent longitudinal displacement of said roller in any of its positions on said wear plate.

1,398,391. AUTOMATIC TELEPHONE SYSTEM. Winfred T. Powell, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed July 28, 1919. Serial No. 313,878. 11 Claims. (Cl. 179—9.)



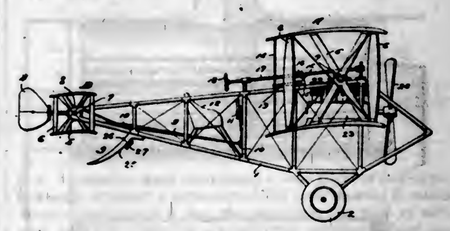
1. In a telephone system, a plurality of telephone lines, a service charging device associated with certain of said lines, means for extending any one of said lines to any other line, means operative during the extension of a call from a telephone line provided with a service charging device to certain lines for operating said service charging device, and means including an electromagnetic device having elements operating in different time intervals to disable said last mentioned means when no charge is to be made.

1,398,392. TOY VEHICLE. Frederick J. Reuter, Oakland, Calif. Filed Jan. 25, 1921. Serial No. 439,898. 2 Claims. (Cl. 208—37.)



1. A toy vehicle including a body, rear wheels on which said body is mounted, a frame on which the forward end of said body is pivotally mounted, a front wheel journaled in said frame, a lever pivoted to said frame and extending upwardly through the forward end of said body, a ratchet on said wheel, a frame including two arcuate members concentric to said lever pivot and an arm extending radially to said pivot and having a longitudinal slot through which said pivot extends, a link pivoted at one end to said frame and at its other end to said lever, ratchet teeth on the inside of each of said arcuate frame members for engaging the teeth at the upper and lower side of said ratchet respectively, the teeth on said members extending in opposite directions, a cam on the inside of the upper arcuate member rearwardly of the teeth on said member for engaging said ratchet and lifting the teeth of the upper arcuate member out of engagement with the teeth of said ratchet and the teeth on the lower arcuate member into engagement with the ratchet teeth, and a cam on the inside of the lower arcuate frame member forwardly of the teeth on said member for engaging said ratchet and drawing said teeth out of engagement with the ratchet teeth and drawing the teeth on the upper arcuate member into engagement with the ratchet teeth.

1,398,393. FLYING-MACHINE. Georgs W. Riley, Fouke, Ark., assignor of one-fifth to J. J. Shipp, Fouke, Ark. Filed Apr. 21, 1919. Serial No. 291,440. 1 Claim. (Cl. 244—29.)

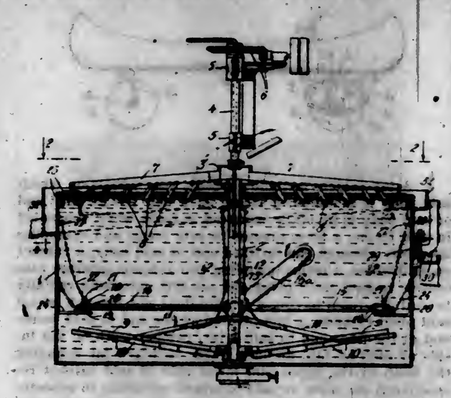


A flying machine comprising a fuselage, a group of upper and lower horizontal sustaining planes at each end of the fuselage, said groups mounted to tilt about transverse horizontal axes relatively offset in a vertical plane whereby the upper surfaces of the front group swing in an arc above the fuselage and the lower surfaces of the rear group swing in an arc below the fuselage, propelling means supported between the planes of the front group and movable therewith, and tilting means connected to each group and operable for effecting a change in the longitudinal inclination of the sustaining surfaces and a corresponding change in the inclination of the propeller, whereby the latter exerts a direct pulling force in the desired direction of movement.

1,398,394. METHOD OF CONCENTRATION OF ORES. Hallet Rich Robbins, Manchester, N. H. Filed Oct. 21, 1919. Serial No. 332,345. 13 Claims. (Cl. 83—85.)

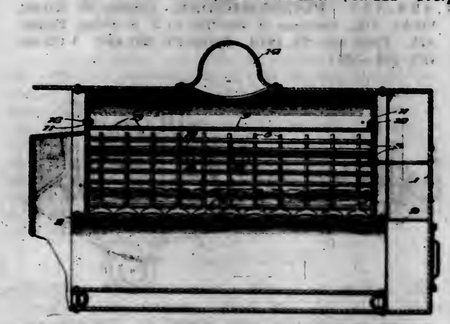
1. In a flotation process the operations of maintaining throughout the entire horizontal cross-sectional area of a

body of freely-flowing ore pulp a substantially uniform ascending column of minute gaseous bubbles, maintaining throughout said area a substantially homogeneous descending column of pulp, elevating pulp from the lower part



of said body of pulp and discharging it substantially uniformly throughout the horizontal cross-sectional area of the upper part of said body of pulp thereby causing circulation of said pulp in a homogeneous column, and separating the floated mineral from the remainder of the pulp.

1,398,395. STEAM-BOILER AND STEAM-POWER GENERATION. George S. Roberts, Bend, Oreg. Filed Apr. 21, 1921. Serial No. 463,212. 5 Claims. (Cl. 122—408.)



1. In combination with a fire tube boiler having its normal water level at a point below a portion of the fire-tubes thereof, percolating means in the boiler for circulating the water, spaced superposed internal baffles extending throughout the boiler, one of said baffles being arranged to have jets of water from said percolating means impinged thereupon and distributed over the uppermost of said fire-tubes, and the other of said baffles having means for receiving the unconverted water from said jets and distributing the same by gravity over the remainder of the fire-tubes.

1,398,396. CLOTH-CUTTING AND PATTERN-MARKING MACHINE. Joseph A. Rosenfeld and Harry Rosenfeld, Cleveland, Ohio. Filed Mar. 29, 1921. Serial No. 456,291. 6 Claims. (Cl. 101—26.)

1. In a pattern marking machine, the combination of a needle for making perforations to mark a design, means for reciprocating the needle, a reservoir for a marking fluid, a tube leading from the reservoir, and the tube



having alining openings in its wall for the passage therethrough of the needle, substantially as described.

1,398,397. OIL-BURNER. Parmly H. Ryder and Charles W. Moore, Bucyrus, Ohio. Filed Feb. 1, 1919. Serial No. 274,472. 1 Claim. (Cl. 158—76.)



An oil burner including a cylindrical chamber, one end of which is of a truncated cone shape, and the opposite end equipped with a screw threaded neck, a nozzle threaded in said neck, and provided with a reduced smooth body which extends concentrically through said chamber from one end to the other and terminating in the truncated end of said chamber, an air inlet elbow communicating with said chamber adjacent the outlet terminus of the nozzle, said air inlet supplying the air for atomizing the oil and the air necessary for combustion of the oil as the latter is dispensed through said nozzle.

1,398,398. CYLINDER-LAPPING TOOL. William A. Salter, Kansas City, Mo. Filed Nov. 2, 1920. Serial No. 421,355. 9 Claims. (Cl. 51—205.)



1. In a cylinder lapping tool, the combination of a metallic collar, with compression tension, split on one side throughout its length, internal flexible means for attaching the collar to an operative handle, and adjustable non-yielding means for expanding the collar.

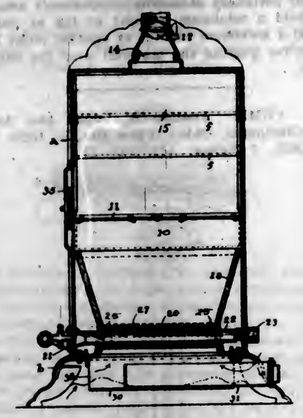
1,398,399. BUMPER-ACTUATED VEHICLE-CONTROL MECHANISM. Karl Ottmy Schafnar, San Francisco, Calif. Filed Apr. 5, 1920. Serial No. 371,894. 7 Claims. (Cl. 188—82.)

1. In combination with a motor driven vehicle provided with a brake for retarding the movement thereof, a brake lever associated therewith, a bumper carried by the vehicle, electrically controlled means connected therewith and with said brake lever and thrown into operation on



said bumper engaging an object for operating said brake lever to actuate the brake to retard the movement of the vehicle.

1,398,400. COMBINED COAL AND GAS STOVE. Nikolaus Schebesch and Stefan Schebesch, Cleveland, Ohio. Filed Oct. 17, 1919. Serial No. 331,227. 2 Claims. (Cl. 126—88.)



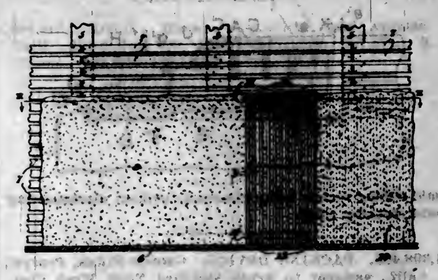
2. A combination stove for gas and solid fuel, comprising a chamber having fixed grate members in its bottom and sides for solid fuel and a middle tubular grate member having perforations to emit gas, and a rotatable gas supply pipe on which said tubular grate member is fixedly mounted and provided with perforations to emit gas into said tubular member.

1,398,401. AUTOMOBILE-LICENSE FASTENER. Ryland B. Shaw, Decatur, Ill. Filed Apr. 14, 1920. Serial No. 373,762. 4 Claims. (Cl. 40—125.)



1. In a device of the class described, a clamping bar, means for securing a display member to said bar, a second complementary clamping bar, a lug on and extending at an angle from said first mentioned clamping bar and having a plurality of spaced notches therein, said second mentioned clamping bar being adapted to be supported in any selected notch of said lug so as to vary the amplitude of the clamping movement of said bar and means for drawing together said bars to clamp a support.

1,398,402. WALL CONSTRUCTION. Frank Semante, Grand Haven, Mich. Filed May 5, 1921. Serial No. 467,152. 5 Claims. (Cl. 72—16.)



1. In a wall construction, the combination with upright studding members having laths connecting the same, and a primary layer of plaster applied to said laths, of a sound deadening fabric applied to the outer surface of said primary layer of plaster, and a second layer of plaster applied to the primary layer of plaster and said sound deadening fabric whereby the latter is completely covered.

1,398,403. PAINT-PACKAGE AND METHOD OF MAKING IT. George W. Stahl, Chicago, Ill. Filed Nov. 3, 1920. Serial No. 421,481. 5 Claims. (Cl. 41—4.)



1. A paint package comprising a base adapted to receive a deposit of paint, a celluloid or like cover having a raised center portion and a flat rim overlying the face of said base, said rim extending a substantial distance beyond the edges of said base, a back member of fibrous material underlying said base and having its edges coextensive with the edges of said cover, a plurality of fasteners each securing together the edges of said cover and base along one side of the package, and a continuous rim of an impervious sealing compound or wax embracing the said edges of the cover and base.

1,398,404. DISK-SHAPED COMMUTATOR FOR GYROSCOPE-MOTORS. Hermann Sundhaussen, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Jan. 15, 1921. Serial No. 437,604. 5 Claims. (Cl. 171—220.)

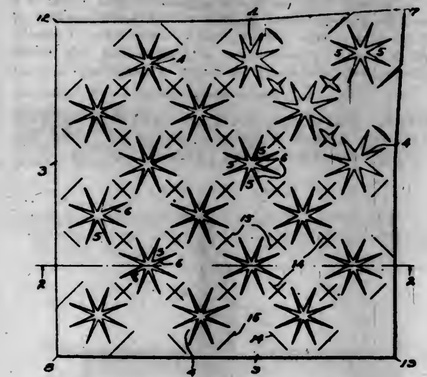
2. A disk-shaped commutator for motors of the class described comprising a supporting disk-shaped element provided with a hub portion, supporting sectors mounted upon said supporting element, each of said supporting sectors being provided with a ledge portion disposed adjacent the hub of said supporting element, sliding sectors secured to said supporting sector, a ring screwed upon

said hub and abutting said supporting sectors on said ledges, securing rings for retaining said sectors in place.



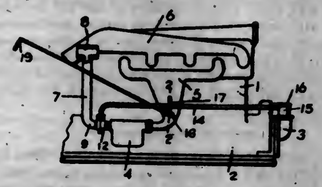
said sliding sectors being removable without disconnecting said securing rings.

1,398,405. PACKING DEVICE. GEORGE SYKES, Penryn, Calif., assignor to Sykes Standard Fruit Wrap Company, Penryn, Calif., a Corporation of California. Filed Apr. 22, 1919. Serial No. 291,996. 7 Claims. (Cl. 217—27.)



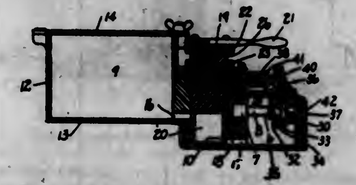
1. A separator for use in packing fruit comprising a sheet of conformable material having a series of slits therein whereby the sheet is deformable in any direction.

1,398,406. ATTACHMENT FOR HYDROCARBON-ENGINES. THOMAS ROBERT TURNER, Toronto, and JAMES ALEXANDER NESBITT, London, Ontario, Canada. Filed May 6, 1921. Serial No. 467,418. 4 Claims. (Cl. 123—119.)



1. In a hydro-carbon engine, the combination with the crank case having a breather port, inlet manifold, and carbureter, of an air supply tube leading to the carbureter, a pipe connected at one end of the air supply tube and to the breather port at the opposite end, a suction valve for controlling the passage of air through the pipe, a tube connecting the pipe with the inlet manifold, and manual means for controlling the passage of air from the pipe through the tube into the inlet manifold.

1,398,407. INKING-MACHINE. LOUIS J. VAN GUELPEN, Cincinnati, Ohio. Filed Mar. 17, 1919. Serial No. 283,224. 9 Claims. (Cl. 91—51.)



1. In an inking machine of the character described, an ink reservoir, a revolving wheel therein, means for revolving the same, and automatic spacing means for guiding the material as it is passed forward and backward over the surface of said wheel to ink the edge thereof.

6. In an inking machine of the character described, an ink reservoir, a revolving wheel therein, said wheel having an irregular periphery extending continuously around the same to hold a minimum amount of ink at one point thereof and a maximum amount at another point thereof, and means for guiding the material over the surface of said wheel.

1,398,408. PUMP. AUGUST B. VOGES and ANTHONY VOGES, Cincinnati, Ohio. Filed Dec. 9, 1920. Serial No. 429,396. 7 Claims. (Cl. 230—27.)



1. In a pump, a cylinder having an inlet opening in one end, a plunger in said cylinder, means for actuating said plunger, an inlet valve at the other end of said cylinder, a rigid inlet-valve element at said one end, having fixed thereon a gasket face with an opening, means supporting said rigid element to move toward said one end to bear thereon with said gasket face across said inlet opening, or to move away from said end, and to move on said end to present its gasket face with the opening of said gasket face out of register or in register with said inlet opening, alternatively, and outlet valves at opposite ends of the cylinder.

1,398,409. SHEET-METAL BOX. FREDERICK WESTERBECK, St. Louis, Mo. Filed June 27, 1919. Serial No. 307,166. 1 Claim. (Cl. 220—73.)

A sheet metal box body comprising a plurality of sheets of metal bent to form seamless corners, said sheets of metal being joined by seams located between the corners of the box body, and reinforcing means for the upper end

of said box body comprising a web extending inwardly from the upper marginal edge of each sheet, said web having a depending curl extending downwardly from the inner edge of the web and thence upwardly and outwardly so as to provide a stiffener-rod-receiving tubular



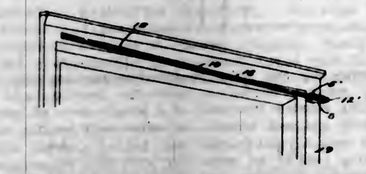
portion interiorly of the web, an open space being left between said depending curl and said upper marginal edge so as to permit flexure of said upper marginal edge, and a continuous stiffener rod in said tubular portion and spanning said seams.

1,398,410. EMBEDDING PROCESS. EDWIN L. WIEGAND, Pittsburgh, Pa. Filed June 21, 1920. Serial No. 390,892. 9 Claims. (Cl. 219—25.)



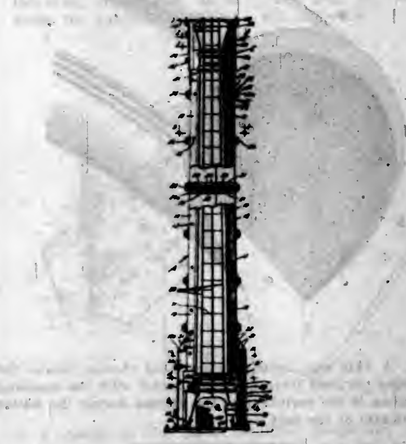
1. The process of producing an electrical heating element which contains the steps of first, introducing into a suitable receiver a uniformly impressionable mass of non-fluid embedding material, second, introducing into said mass a previously formed resistance element and simultaneously subjecting the mass to high pressure so as to compact the same and hold said resistance element in place, third introducing additional embedding material to cover said resistance element, next drying the mass, and finally bringing the same to a stable condition by the application of heat.

1,398,411. CURTAIN-ROD. JOSEPH BRADLEY AKERS, New York, N. Y. Filed July 17, 1920. Serial No. 396,997. 5 Claims. (Cl. 156—22.)



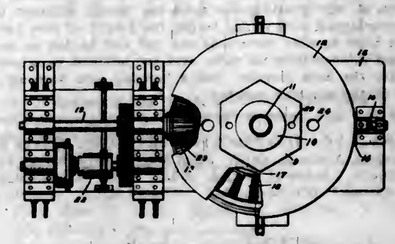
1. A curtain rod comprising an arm having a flattened side, an attaching bracket having a base portion and a vertical plate portion extending outwardly at right angles thereto, the free end of said plate portion being bifurcated and having said arm pivoted vertically for horisontal swinging movement therein near one end to provide a short projecting portion at the adjacent end of the arm, and a spring strip secured to the outside of the vertical plate portion and curved laterally and away from the same, then parallel thereto and having its free end bent inwardly substantially at right angles to form a stop to engage the short projecting end of the arm and hold the same at right angles to the plate limited against further movement in that direction but adapted to extend outwardly in alinement with the plate and held by the spring adjacent to the curved portion thereof.

1,398,412. MOLD. HENRY BARKSCHAT, Los Angeles, Calif. Filed June 30, 1919. Serial No. 307,571. 9 Claims. (Cl. 25—118.)



1. A mold comprising a plurality of separable sections, each including longitudinally extending wooden members and segmental metal members extending transversely of and secured to the wooden members, the ends of the metal members on adjacent sections being in alinement when the sections are assembled to form the mold, and means for retaining the sections in assembled relation including draw bars each pivotally connected at one end to one of the metal members and having its other end overlapping and detachably connected to the alined metal member of the adjacent section.

1,398,413. WELL-BORING APPARATUS. BURWELL BOYKIN, Jr., Beaumont, Tex. Filed Apr. 29, 1921. Serial No. 465,475. 3 Claims. (Cl. 255—23.)



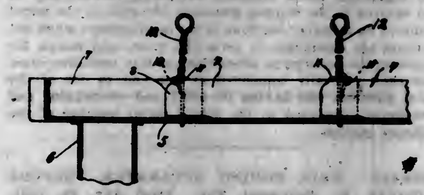
1. In a device of the character described, a main bearing, a table keyed to the main bearing, means operating above the main bearing for imparting rotary movement to a boring pipe, gearing for imparting rotary movement to the table, teeth carried by the table and coöperating with the gearing, said gearing operating above the teeth, and means for locking the bearing and table against rotary movement.

1,398,414. HALF-SOLE FOR PNEUMATIC TIRES. Ferdinand Francis Beecher, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 30, 1920. Serial No. 369,964. 6 Claims. (Cl. 152—17.)



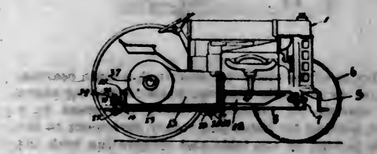
1. A half sole having incorporated therein means for holding portions thereof out of contact with the opposing portions of the periphery of the carcass during the initial applicatin of the half sole.

1,398,415. EAVES-TROUGH. Turner Byrd, Lansing, Mich. Filed Sept. 27, 1920. Serial No. 412,927. 1 Claim. (Cl. 108—28.)



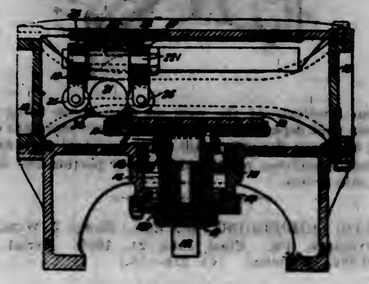
In an eaves trough, strips of waterproofed material positioned within the trough, said strips having their adjacent ends overlapping, a securing member including a length of wire positioned around the trough adjacent to the overlapped ends of the strips, the length of wire having a hook member formed at one end and having an eye formed intermediate its ends, said eye adapted to accommodate the hook member, and a hanging arm forming a part of the securing member.

1,398,416. DRAWBAR FOR TRACTORS. Henry E. Carnes, Anaheim, Calif. Filed Mar. 3, 1919, Serial No. 280,459. Renewed Oct. 6, 1921. Serial No. 505,925. 7 Claims. (Cl. 213—67.)



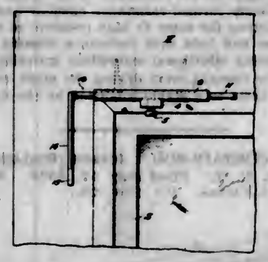
4. A draw bar construction for tractors comprising means for supporting a stud beneath the forward end of the tractor frame, a bar pivotally connected to the stud and extending backwardly beyond the rear axle.

1,398,417. VARIABLE-SPEED GEARING. Christopher Brunswick Chicken and George Scott, Newcastle-upon-Tyne, England, assignors to Sir W. G. Armstrong, Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Filed Sept. 15, 1919. Serial No. 323,890. 7 Claims. (Cl. 74—28.)



1. In variable speed gearing, a disk, a carriage, a ball in the carriage and in contact with the disk, a roller in contact with the ball, a second roller in the carriage in contact with the ball opposite to the disk, a third roller in the carriage in contact with the ball opposite to the first roller, and means for traversing the carriage along the first roller.

1,398,418. COMBINED SHADE-BRACKET AND POLE-SUPPORT. Herbert E. Church, Oneonta, N. Y. Filed Jan. 20, 1921. Serial No. 438,719. 1 Claim. (Cl. 156—24.)

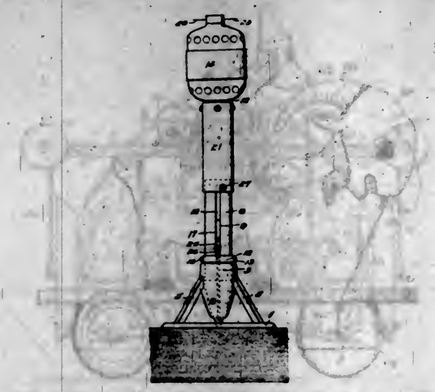


A device of the class described comprising an attaching member having a sleeve-like bearing, and a supporting member composed of a single piece of heavy wire with one end adapted to enter said bearing and bent to form a right-angular arm having a shade roller supporting loop at its outer end, said wire being folded down against the outer end of said loop and extended to form an oblique bracing arm having an upstanding member at its lower end for engaging a window frame, the said wire being extended above the said first mentioned arm and bowed outwardly and equipped at its upper end with a forwardly extending right angular arm having a pole receiving seat at its terminal.

1,398,419. PORTABLE PIERCING DEVICE. Grosen E. Conner, St. Louis, Mo. Filed Dec. 6, 1918. Serial No. 265,621. 11 Claims. (Cl. 77—6.)

1. In a device of the class described, an electric motor including an armature shaft, piercing means revolubly

with the armature shaft, a support having a slight opening, and extensible means interposed between the motor



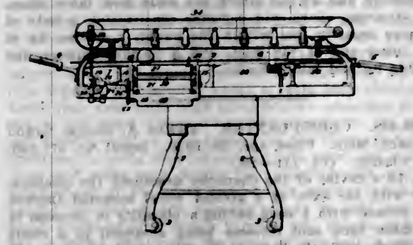
and said support, all of said elements being arranged in axial alignment, and said extensible means adapted to act as a handle for positioning the device.

1,398,420. RAILROAD-FROG. Nicola A. Cottese, Bovey, Minn. Filed May 31, 1921. Serial No. 474,024. 1 Claim. (Cl. 246—463.)



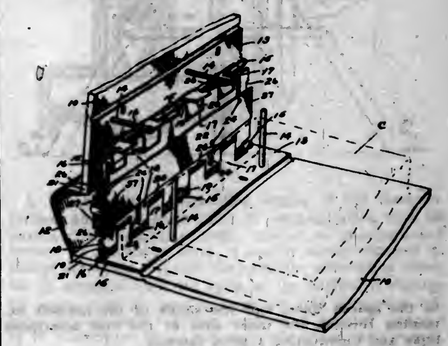
A separable frog of the character described comprising in combination a base portion having a Y-shaped upwardly extending central portion for coöperative engagement with the wing rails and point of a track frog, short pieces of rail like sections formed integral with said Y-shaped portion which form continuations of the wing rails, and means for firmly uniting the separable parts of the frog, substantially as described.

1,398,421. LABELING-MACHINE. Haywood Guion Dewey and Fundenick H. Knapp, Westminster, Md., assignors to Fred H. Knapp Company, Westminster, Md., a Corporation of Maryland. Filed Mar. 28, 1917. Serial No. 157,902. 18 Claims. (Cl. 216—44.)



4. In a labeling machine, the combination of a runway for cans having slip covers, a label support intermediate the ends of the runway, tap end paste applying means, and means for applying a limited circumferential strip of paste between the label and can at the extreme edges of the label, the body portion of the label between said strips and at the joint between the cover and body of the cans being substantially free from paste.

1,398,422. LOOSE-LEAF BINDER. William Fred Dunning, Washington, D. C. Filed Aug. 24, 1920. Serial No. 405,649. 7 Claims. (Cl. 129—8.)



1. A device of the class described comprising side members, a back comprising relatively movable plates for opening and closing said device, post-carrying members hinged to said plates, and straight binding posts carried by said members, said post-carrying members and plates being adapted to coöperate to position said posts in spaced parallel relation when the device is in closed position.

1,398,423. FILM-CLIP AND ORDER TAB-HOLDER. Glen M. Dye, Minneapolis, Minn. Filed May 5, 1919. Serial No. 294,673. 5 Claims. (Cl. 95—100.)

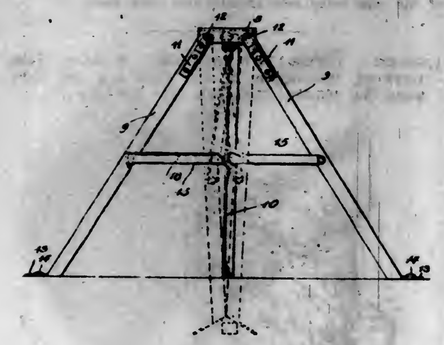


1. A device of the kind described comprising a supporting bar and a plurality of combined film and order tab holders spaced thereon.

1,398,424. VISE-STAND. Morgan Evans, Pittston, Pa. Filed June 7, 1921. Serial No. 475,752. 1 Claim. (Cl. 218—41.)

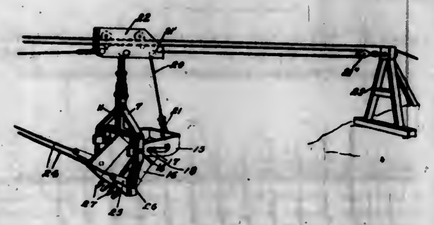
A stand comprising a platform, a downwardly and forwardly disposed flange carried thereby, a second flange carried by the stand and extending at right angles to the first mentioned flange, a plurality of legs having their upper ends positioned against one face of the flanges, an off-set bearing carried by each of the links at its upper end and positioned against the opposite face of the flanges, pivots extending through the flanges, legs and bearings, a pair of links having their outer ends pivoted to one pair of the legs, a pair of spaced links

having their outer ends pivoted to the other leg, an eye-bolt having pivotal connection with the inner ends



of the spaced links, and the shank of the eye-bolt extending through the inner ends of the first mentioned links and constituting a pivot therefor.

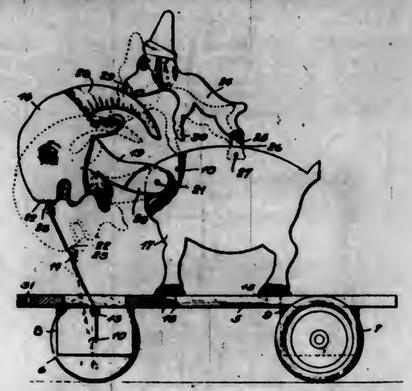
1,398,425. CABLEWAY EXCAVATING-BUCKET. ERNEST H. FALLENSTEIN, Mankato, Minn., assignor of one-half to Vergil E. Gill, Boulder, Colo. Filed Mar. 2, 1921. Serial No. 449,177. 2 Claims. (Cl. 37—54.)



1. An excavating bucket including a support, a bucket section pivotally mounted within the support, rollers carried by the bucket section, a locking bail associated with the bucket section, said locking bail having slotted trackways to accommodate the rollers, said trackways having right angle portions to accommodate the rollers for holding the bucket section in a locked position.

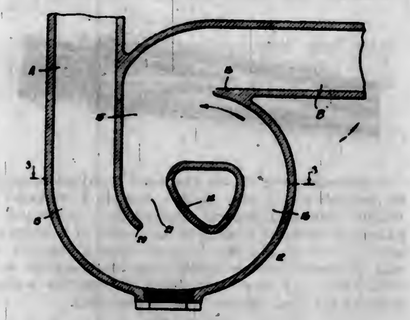
1,398,426. FIGURE WHEELED TOY. KATHERINE B. FULD, Baltimore, Md., assignor to William Fuld, Baltimore, Md. Filed Jan. 11, 1921. Serial No. 436,419. 2 Claims. (Cl. 46—45.)

1. A toy comprising, in combination, a wheel-equipped platform, a figure having a body portion, an oscillating member pivotally connected to said body portion and having a cam surface thereon, means connecting the wheel members and said oscillating member to actuate the latter in the movement of the former, and a second figure pivoted to the body portion of said first figure and



having its free forward end resting on the cam surface of said oscillating member to be rocked by the movements thereof.

1,398,427. NON-SIPHONABLE TRAP. DANIEL A. GILLEN, Flushing, N. Y. Filed Jan. 25, 1921. Serial No. 439,756. 1 Claim. (Cl. 182—12.)

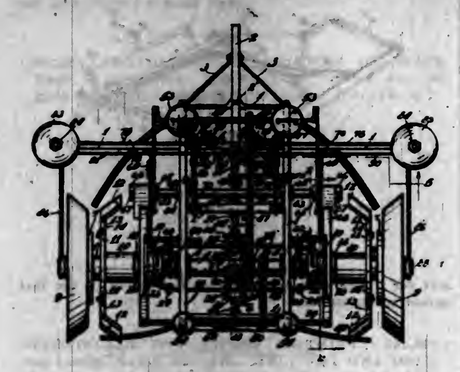


The herein described non-siphonable trap comprising a vertical inlet, a horisontal outlet, and a vertically arranged curved passageway communicating directly with the inlet and indirectly with the outlet and all in the same vertical plane, the width and capacity of the main curved passageway being less than that of the inlet or the outlet, a hollow transversely tubular deflector within the curved strocture and around which the main flow takes place, the structure above said deflector constituting a body of a large capacity just within the outlet, a sealing lip at the lower end of the inlet, and a by-pass between the sealing lip and said deflector.

1,398,428. CORN-PLANTER. EDWIN A. GOLLE, Grand Beach, Mich. Filed Apr. 29, 1920. Serial No. 377,595. 2 Claims. (Cl. 111—28.)

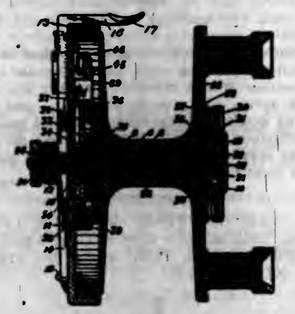
1. In a device of the character described, the combination with the axle, of a ground wheel mounted thereon and formed with a nave having a plurality of recesses in its inner face, said recesses being arranged in a circle concentric with the bore of the nave, a sleeve rotatably and slidably disposed on the axle adjacent to the inner face of the nave, and a disk rigidly mounted on the sleeve

at its outer end and formed with radially extending laterally inclined segmental rim portions, said disk having a diameter substantially equal to that of the ground wheel



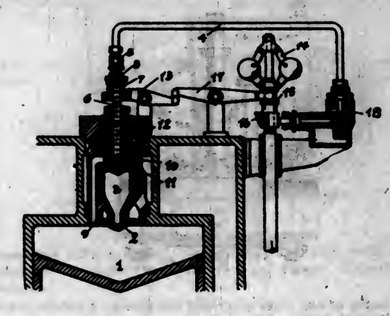
and being provided with a plurality of pins projecting laterally of the outer face of the disk in position to enter said recesses when the disk is moved contiguous to the wheel.

1,398,429. FISHING-REEL. ROBERT WILLIAM HARRADINE, Bondi, New South Wales, Australia. Filed Nov. 17, 1920. Serial No. 424,756. 2 Claims. (Cl. 242—84.5.)



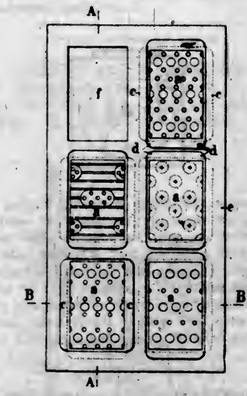
1. In a fishing reel, in combination, a cheek plate having an annular flange, a spider to which said plate is attached, a rod rest on one arm of said spider, a tubular spindle screwed into said cheek plate and spider, a cap-nut on the end of said spindle, a collar on said spindle bearing against the opposite face of said plate to said cap nut, a winding drum and a bushing therein rotating on said spindle, an extension of said bushing beyond the end of the drum toward said cheek plate, fixed on said extension a ratchet wheel having an annular boss, a brake ring rotating on said boss, said brake ring being between said ratchet wheel and drum, a spring controlled pawl on said ring engaging said ratchet wheel, a brake band about said brake ring, said brake band being flexibly connected at one end to the cheek plate, a tensioning screw at the other end of said band, a cam pivoted in the cheek plate and operating to press said brake band into frictional contact with said brake ring, means for actuating said cam, an enlargement of the other end of said bushing extending beyond the end of the spindle, a bore in said enlargement, a bolt passing axially through said spindle and cap nut, a spring underlying the head of said bolt, a nut on the other end of said bolt, and a crank handle on said enlargement for rotating the drum.

1,398,430. INTERNAL-COMBUSTION ENGINE. PAUL HENTSCHEL, Los Angeles, Calif. Filed Jan. 23, 1920. Serial No. 353,558. 3 Claims. (Cl. 123—33.)



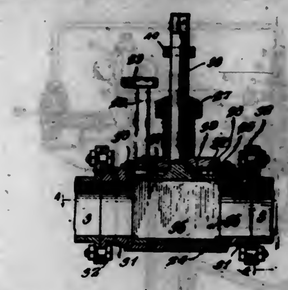
1. In an internal combustion engine of the class described, an expansion cylinder in communication with an auxiliary combustion cylinder through a predetermined number of restricted holes; a supply means adapted to charge the liquid fuel into the auxiliary combustion chamber in sequence with the cycle of the engine; a passage for compressed air leading from the said expansion cylinder into the said auxiliary combustion chamber, adapted to be intercepted by an automatically timed valve means, a mechanical means, adapted to vary the resistance through the said passage to the flow of compressed air from the expansion cylinder into the auxiliary combustion chamber in reversed order to the amount of liquid fuel charged into the auxiliary combustion chamber for variable loads on the engine.

1,398,431. SAMPLE-CARD. EDWIN HIRTZ, Paris, France. Filed May 26, 1920. Serial No. 384,272. 1 Claim. (Cl. 211—34.)



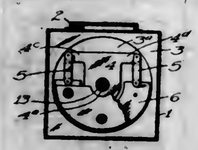
A sample card, comprising a sheet provided with a plurality of rectangular openings, and a plurality of rectangular supports upon which samples are secured, said supports being provided with a tongue at each edge and of the same length as the edge, the tongues of two opposing edges lying on the inner face of the sheet and the tongues of the other two opposing edges lying on the outer face of the sheet.

1,398,432. VALVE. Wilfred Jaax, Lowell, Mass. Original application filed July 23, 1920, Serial No. 398,190. Divided and this application filed Apr. 23, 1920. Serial No. 376,113. 1 Claim. (Cl. 251—109.)



A valve of the class described comprising a substantially cylindrical vertical casing having a plug valve socket in its upper side, an inlet into said socket, and an outlet from said socket, a valve plug having a passage for controlling communication between said inlet and said outlet, a removable cover plate for said plug socket secured to the upper side of said casing, a stem rising from said plug to a point above said cover plate, a pair of posts rising from said cover plate at points spaced outwardly from said stem, an arcuate segment supported horizontally by said posts in concentric relation with said stem, the upper side of said segment being provided with spaced teeth, a handle extending laterally from said stem over said segment and a spring-depressed pin slidably carried by the outer end of said handle and engaging the teeth of said segment to hold the stem and plug in adjusted position, the upper end of said pin having a knob adapted to be raised to release the pin and to then serve as means to swing said handle to operate the valve stem.

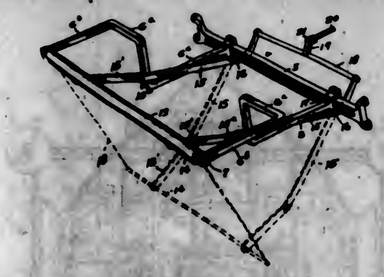
1,398,433. GRADOMETER. Clyde A. Johnson, San Diego, Calif. Filed Mar. 23, 1920. Serial No. 368,140. 4 Claims. (Cl. 33—220.)



1. A gradometer, including a casing having a circular recess, a support pivotally mounted in said recess, a weight suspended on said support in said recess on a parallel axis with said support whereby said weight is adapted for both revoluble and swinging movement in opposite directions against the curved wall of said circular recess in the plane of its normal rotation and gear, means in connection with said weight support for indicating the relative position of said weight support with said casing.

1,398,434. AUTOMATIC LIFE-SAVING FENDER FOR AUTOMOBILES. Edward S. Jones, Mobile, Ala., assignor of one-tenth to Fred A. Hixon, one-tenth to George Kilborn, and one-tenth to George S. Bowsmore, Mobile, Ala. Filed June 7, 1921. Serial No. 475,606. 6 Claims. (Cl. 293—41.)

1. The combination with a vehicle, of rigid supports carried thereby, a spring actuated roller carried by said supports, a web connected with said roller to be wound thereon, swinging arms engaged with the lower edge of said web, spring means normally tending to force said arms downwardly and means controllable from the driver's



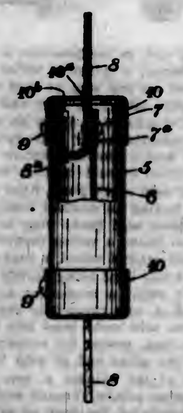
seat for lifting said arms against the action of the last named spring means.

1,398,435. PRINTING DEVICE FOR REGISTERING CASH AND THE LIKE. Werner Kolbe, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Feb. 9, 1921. Serial No. 443,647. 5 Claims. (Cl. 101—19.)



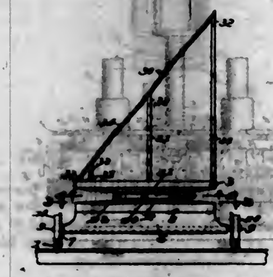
1. A printing device of the class described comprising a multiplicity of printing types, points disposed along the printing contour of said types for piercing the object to be printed during the printing operation, said printing points being arranged in parallel rows, said points being arranged differently for each type, a counter die provided with spaced parallel grooves coöperating with said points during the printing operation.

1,398,436. ELECTRIC FUSE. William B. La Pointe, Columbus, Ohio, assignor to Herman E. Vance, Powell, Ohio. Filed Aug. 12, 1919. Serial No. 317,088. 1 Claim. (Cl. 200—132.)



A safety fuse comprising, in combination, a shell, a fusible member and terminals, each terminal consisting of an integral strip of metal of U-form at one end, one leg of said end secured to the shell and the other leg receiving the fusible member and extending externally of the shell and constituting a knife blade.

1,398,437. REVOLVING HAY STOWER OR SLIDE. Fred W. Leighton, Rockwood, Me. Filed Aug. 28, 1920. Serial No. 406,644. 5 Claims. (Cl. 214—5.)

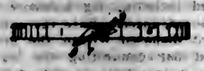


1. In a hay stower or guide for hay mows, a pair of track rails, a stower or hay guide operable thereon, said hay stower or guide comprising a base section having supporting wheels engaging the track rails, and an upper revoluble section mounted upon the base section to rotate in either direction, and an inclined hay guide mounted upon the revoluble section for guiding or chuting the hay into the sides and corners of the hay mow.

1,398,438. PROCESS FOR TREATING AND RECOVERY FOR REFUSE OILS, RESINS, GUMS, &c., WHICH HAVE BEEN HARDENED. Clay Littleton, Hopewell, Va. Filed Jan. 27, 1921. Serial No. 440,532. 4 Claims. (Cl. 134—26.)

1. The process of recovering, a hardened coating material for re-use, which comprises dispersing it in an alkaline solution, treating the solution with active chlorin, removing the coating material body from the solution and drying and air treating the precipitate.

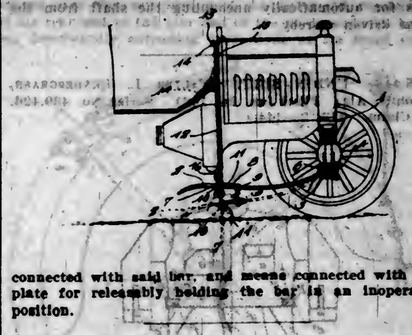
1,398,439. PISTON-RING. Frederick Keith McMaster, Birriwa, near Mudgee, New South Wales, Australia. Filed Jan. 18, 1921. Serial No. 438,153. 4 Claims. (Cl. 74—109.)



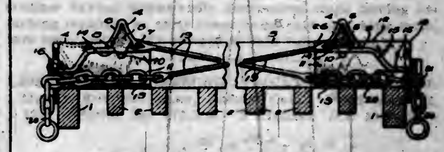
1. Improvement in piston rings comprising a joint wherein one of the ring ends is a beveled V-point and the other end a complementary beveled V-recess substantially as herein described and explained.

1,398,440. AUTOMOBILE-CHECK. William McNamer, Aberdeen, S. D. Filed Dec. 16, 1920. Serial No. 431,208. 2 Claims. (Cl. 188—6.)

1. A vehicle check comprising a bar having one end sharpened, a pivot head at the second end of said bar, means for loosely supporting the head of said bar in contacting relation with the inner face of an axle, a plate having an opening receiving said bar, in its movement by said plate and resting upon said bar and having ears and connected with said bar, and means connected with said plate for releasably holding the bar in an inoperative position.

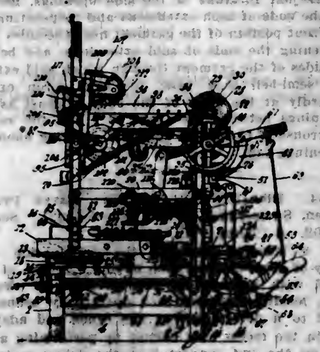


1,398,441. STAKE FOR FLAT-CARS. Matt Markkula, Fort Bragg, Calif. Filed July 1, 1921. Serial No. 481,983. 4 Claims. (Cl. 105—385.)



1. The combination with a flat car, of a guide arranged below the surface of the car, said guide comprising a substantially horisontal portion, a sloping portion connected thereto, and an offset end substantially parallel to said horisontal portion, a stake slidably mounted on said guide whereby the stake is retained in operative position when in engagement with a horisontal portion of the guide, and in inoperative position when in engagement with the offset end thereof, and means for retaining said stake in operative position.

1,398,442. CEMENT-BLOCK MACHINE. James H. Pearson, Bloomfield, Ind., assignor to Concrete Silo Company, Bloomfield, Ind. Filed Nov. 22, 1920. Serial No. 425,806. 12 Claims. (Cl. 25—41.)



1. In a cement block machine the combination with a mold having a removable pallet and separable walls, of

1,[illegible]. [illegible]. [illegible], Pa. [illegible]. Serial No. 499,[illegible]. 1 Claim. (Cl. 24—144.)



A union bathing garment, comprising a skirt and bathing panty, and a waist-band at the upper thereof, such waist-band adapted to encircle the body, the skirt opening at the front and being provided at the rear with an apron extending downwardly from the rear part of said waist-band, the portion of said waist-band above said apron carrying buttons, the trousers being split at the sides from the waist-band downwardly to provide a drop seat which is adapted to cover the said apron, the said drop-seat being provided with a semi-belt which has button-holes at the back thereof for engaging the buttons above mentioned, said semi-belt having elongated projecting beyond the edges of the drop-seat, said extending to points just in front of the side openings, means adjacent the ends of each extensions and cooperating means on the front portion of the garment near the sides thereof, for fastening the ends of said extensions, and belt loops at the sides of the garment through which said extensions of the semi-belt may pass, the said apron extending downwardly at the sides of the body at least as far as the openings between the front part and the rear part of the trousers, to furnish complete covering should such side openings sag.

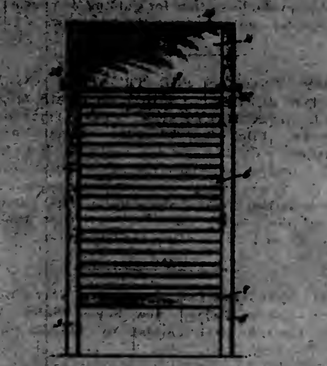
1,[illegible]. BRAIDING-MACHINE. [illegible] Frauenknecht, Wehlen, Switzerland. Filed June 3, 1921. Serial No. 474,[illegible]. 9 Claims. (Cl. 87—4.)

1. In a braiding machine, the combination with a plurality of spool-holders each having a rocker, of drivers provided with notches for the movement of the spool-carriers, locking members each operatively connected at one end to a driver and at the other end adapted to engage in the recess of a carrier by pendulating a tilting motion on the end connected to the driver resting on a fulcrum, the locking member of one driver engaging with the locking member of the adjacent driver independent of the direction of rotation of a driver, the pendulating



preventing a turning motion of the carriers during the transfer of the latter from one driver to another.

1,[illegible]. WASHBOARD. [illegible] H. Rossnock, South Amboy, N. J. Filed June 27, 1921. Serial No. 4[illegible]. 1 Claim. (Cl. 68—33.)



A wash board including leg members, said leg members having grooves, intermediate the side edges thereof, a rubbing board disposed within the grooves, a transversely disposed bar connecting the leg members and having a groove to receive one end of the rubbing surface, pins extending through the leg members and contacting with the upper edge of the rubbing surface for preventing movement of the rubbing surface with respect to the leg members.

1,[illegible]. NUT-LOCK. [illegible] A. Sayre, Munson, Pa. Filed June 4, 1921. Serial No. 474,[illegible]. 2 Claims. (Cl. 151—16.)

1. A nut lock of the character described comprising a bolt having an undercut slot of circular, a channel provided between the threads of the bolt, having a series of laterally spaced notches, a portion of said channel on one side of the notches being lower than the portion of the channel on the opposite side of the notches, a nut arranged

for engagement with the bolt, said nut having a conical opening extending through one face thereof, a conical pawl movable in said opening and arranged to project beyond the inner wall of the nut, a spring urging said



pawl toward the bolt and retaining means carried by the nut and adapted to extend over the outer end of the opening to prevent disengagement of the spring and pawl from said opening.

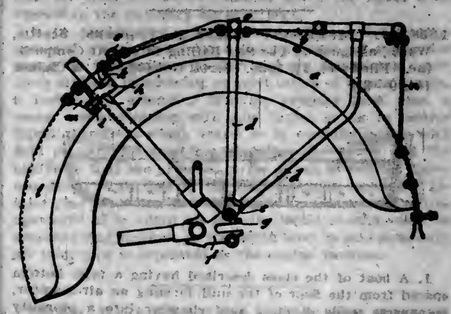
1,[illegible]. ANTIVIBRATION HANDLE-BAR FOR MOTORCYCLES, CYCLES, AND THE LIKE. [illegible] Walker Smith, Redditch, England. Filed June 30, 1920. Serial No. [illegible]. 2 Claims. (Cl. 280—125.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. An anti-vibration handlebar for motor cycles, cycles and the like, having the handle bar proper mounted to rotate in a hollow boss secured to and disposed in front of the upper part of the handlebar stem, the handlebar being furnished with a rearwardly projecting arm or member which extends into the interior of the handlebar stem and cooperates with a spring disposed below such arm and a rubber buffer disposed above the arm, and in which the hollow boss aforesaid is formed in two halves, one half being permanently combined with the handlebar stem and having a semi-circular bearing for the handlebar proper, and the other half being a separable member having a semi-circular bearing and being adapted to be secured in appropriate relationship to the first half by bolts or other suitable means, substantially as set forth and illustrated.

1,[illegible]. COMBINED MUDGUARD AND CARRIER MEMBER FOR USE ON MOTOR AND OTHER CYCLES. [illegible] Walker Smith, Redditch, England, assignor of one-half to The Enfield Cycle Company, Limited, Redditch, Worcester, England. Filed June 30, 1920. Serial No. [illegible]. 1 Claim. (Cl. 280—140.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

In combination with a cycle frame having oblique stays and bearing members for a rear wheel, a mudguard, supporting members attached to said stays and having forwardly and rearwardly extending lugs, said last named lugs having sockets, and to the forwardly extending lugs of which the mudguard is attached, a carrier member arranged over the rear portion of the mudguard, connected at its rear end to the rear end of the mudguard and having downwardly extending projections at its front end,



arranged in the sockets of said socketed lugs, attached at its front end to said supporting members, said carrier member having downwardly converging stays having attaching members at their lower ends, said attaching members being detachably secured to said bearing members.

1,[illegible]. TIRE-PRESSURE INDICATOR AND ALARM. [illegible] Roy Spangler, Pueblo, Colo. Filed May 23, 1921. Serial No. 471,[illegible]. 3 Claims. (Cl. 116—34.)



1. A tire pressure indicator and alarm comprising a base plate, a cartridge carrier carried by the base plate, a hammer pivotally connected with the base plate, a spring for swinging the hammer into operative engagement with a cartridge carried by the cartridge carrier, a resilient strip adapted to be acted upon by an inflated tire, a gage pin carried by the resilient strip for extending through the felly of a wheel and through the base plate into position to releasably hold the hammer in a set position, and a guard carried by the base plate for engaging the hammer and holding the hammer against movement out of engagement with the pin while engaged by the pin.

1,[illegible]. PUMP. [illegible] Robert Tinney, Phoenix, Ariz. Filed June 24, 1920. Serial No. [illegible]. 5 Claims. (Cl. 253—179.)



1. In a device of the character described, the combination with a well casing, of a shell arranged in said well

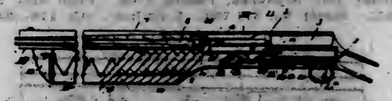
ending, means for supporting said shaft including a hanger rod adjusted to be caused to screw the shaft in the casing, a shaft in said wall casing extending through said shaft, a bearing for said shaft carried by said shaft and a propeller mounted upon said shaft within the shell.

1,396,451. LIFEBOAT. Elmer B. Toomsen, Seattle, Wash., assignor of The Self Bailing Life Boat Company, Inc. Filed Dec. 21, 1920. Serial No. 432,269. 2 Claims. (Cl. 9—8.)



1. A boat of the class described having a false bottom spaced from the floor of the hull forming an air-chamber, transverse walls dividing said chamber into a plurality of individual air-tight compartments, and a partition wall above said false bottom dividing the boat longitudinally.

1,396,452. AUTOMATIC RIFLE. Ira W. Wagner, Casa Grande, Ariz., assignor of one-half to John P. Brown, Casa Grande, Ariz. Filed Sept. 30, 1919. Serial No. 327,494. 2 Claims. (Cl. 42—8.)



1. In combination, in an automatic rifle, a barrel having a compression chamber in alinement therewith, a bolt having a plunger working in the compression chamber and a portion extending into the barrel when in operative position and sealing the same, means controlled by the movement of the bolt for feeding cartridges in succession to the barrel, said bolt having a firing pin rigid therewith, and a spring held cartridge guard, extending beyond the firing pin for insuring the insertion of a cartridge before the firing pin engages the same.

1,396,453. PROCESS FOR PRODUCING FERROCYANIDS. Frank S. Washburn, Rye, N. Y., assignor to American Cyanamid Company, New York, N. Y., a Corporation of Maine. Filed Feb. 7, 1920. Serial No. 357,041. 6 Claims. (Cl. 23—12.)

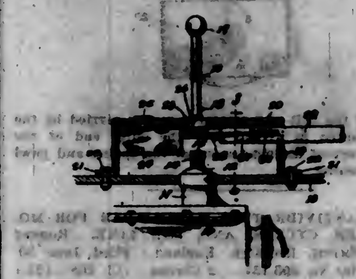
1. The process of producing ferrocyanid from a cyanid compound containing a substantial percentage of impurities which consists in reacting on said impure cyanid with a ferrous salt; removing any insoluble matter present; concentrating the solution thus obtained; and separating the ferrocyanid formed from the other constituents, substantially as described.

1,396,454. SNOW-REMOVER. Felix Fred Daniels, Jersey City, N. J. Filed June 10, 1920. Serial No. 387,840. 2 Claims. (Cl. 37—61.)



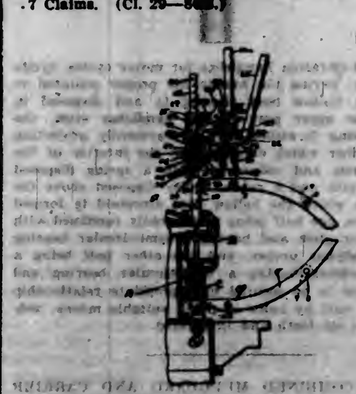
1. In a snow remover, the combination with a motor truck having a gasoline tank at its rear, and a driver's cab disposed at one side of the frame work; of a platform at the front end of the truck, a scoop hinged thereon, means for pivotally adjusting the scoop from the cab, an inclined loading from the rear end of the scoop upward alongside the cab, an upright hopper carried by the frame in rear of the cab, a chute leading from the upper end of the carrier into the hopper, and means for imparting heat to said hopper to melt the snow therein and for delivering the melted snow onto the road.

1,396,455. TRANSMISSION-LOCK FOR MOTOR-VEHICLES. Adolfo De Clairmont, Toledo, Ohio. Filed Sept. 21, 1920. Serial No. 411,600. 5 Claims. (Cl. 70—128.)



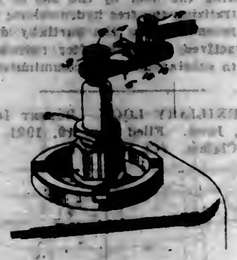
1. The combination with a gear set, and a casing therefor, of a control lever for the gear set, a ball joint supporting the lever upon the casing, the lever being provided above the joint with a detachable shank, a casing overlying the joint and having a door opening through which said shank may be inserted to coact with the joint, and a door upon the casing for closing said opening.

1,396,456. VALVE-GRINDER. William E. Dunstan, Modesto, Calif. Filed Nov. 10, 1920. Serial No. 423,114. 7 Claims. (Cl. 29—89.)



1. A device of the character described comprising a body member, a rod slidable in said body member, means engaged with the rod for moving said body member in one direction on the rod, means engaged with the rod for preventing accidental movement of the rod in the same direction through the body member, and means for disengaging the first mentioned and second mentioned means from the rod, to permit movement of the body member in either direction on the rod.

1,396,457. SPARK-GAP ATTACHMENT FOR SPARK-PLUGS. James S. Faulkner, Petersburg, Va. Filed Nov. 16, 1920. Serial No. 423,987. 2 Claims. (Cl. 175—183.)



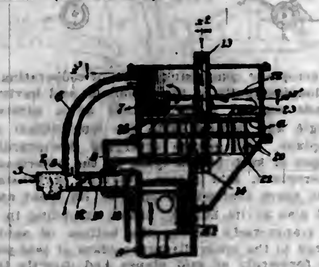
1. A spark gap attachment for spark plugs comprising an insulating base having a perforation at one end to snugly receive a spark plug electrode and having at its other end a slot extending in the direction of the perforation, a terminal plate disposed upon the base and having at one end a finger slidably engaged with the slot and having its opposite end offset from the base and directed toward said perforation, and means engaged through the slot and the plate for clamping the plate to the base.

1,396,458. FILM-HOLDING DEVICE. Joseph F. Greyer, New York, and Thomas S. Fox, Brooklyn, N. Y. Filed Nov. 22, 1920. Serial No. 425,932. 3 Claims. (Cl. 41—4.5.)



1. In a device of the character described, a bearing housing, and means in combination therewith for securing the same upon a support, a slide bearing therein, and means for taking up the wear thereof, a transverse bar secured upon said slide bearing, a screw for shifting said slide bearing longitudinally and a resilient member for opposing the action of said screw.

1,396,459. CARBURETER. Walter G. Hemenway, Los Angeles, Calif. Filed Mar. 13, 1918. Serial No. 222,216. 8 Claims. (Cl. 123—26.)



1. In combination, a carbureting chamber having main and auxiliary air inlet ports and an outlet, a fuel nozzle terminating in the carbureting chamber, a chamber independent of the fuel nozzle adapted to hold a liquid body, means to admit air to the second chamber at different levels below the liquid level, a throttle valve between the auxiliary air inlet port and the outlet, and means to conduct air from the second chamber above the liquid level thereof to the auxiliary air inlet port.

8. In combination with an internal explosion engine, provided with a jacket for a cooling liquid, of means for supplying the engine with fuel and air, comprising a primary air inlet pipe having an inlet orifice of constant area, a fuel nozzle extending into the primary inlet pipe, a vessel communicating with said jacket so as to receive liquid therefrom which vessel is in communication with said primary air inlet pipe between the nozzle and the engine so that the pressure in the vessel is reduced correspondingly with that of the engine, and a secondary air inlet pipe extending into the liquid in said vessel and so apertured as to admit air into the liquid in said vessel in amounts that increase as the liquid level in said secondary air inlet pipe is depressed by the engine vacuum.

1,396,460. HAYRACK-LIFTER. Robert Kahn, Humboldt, Ill. Filed Mar. 5, 1921. Serial No. 449,663. 1 Claim. (Cl. 254—45.)



The combination of parallel supporting structures between which a vehicle may be driven, horizontal rails on said supporting structures, inclined rails leading downwardly from the horizontal rails and aligned therewith, rollers upon the outer sides of the rails at the junctions of the horizontal and inclined members thereof, rollers mounted upon a wagon body to run upon the said rails, and tracks secured longitudinally upon the outer sides of the wagon body laterally beyond the rollers thereon and arranged to ride upon the first-mentioned rollers.

1,396,461. STEAM-TURBINE. Charles V. Kerr, Aurora, Ill., assignor to The American Well Works, Aurora, Ill., a Corporation of Illinois. Original application filed Sept. 1, 1917, Serial No. 189,820. Divided and this application filed Nov. 5, 1919. Serial No. 335,988. 4 Claims. (Cl. 253—77.)



1. A turbine bucket adapted for stamping from flat sheet metal having a central concave portion, thin lateral edges on said central portion, rounded ends on said central portion, and rectangular projections beyond said rounded ends, said thin edges and said rectangular projections lying in the same plane.

1,396,462. FORTUNE-TELLING DEVICE. Frank Knowles, West Englewood, N. J., assignor to William Fuld, Baltimore, Md. Filed Sept. 1, 1920. Serial No. 407,230. 5 Claims. (Cl. 46—41.)

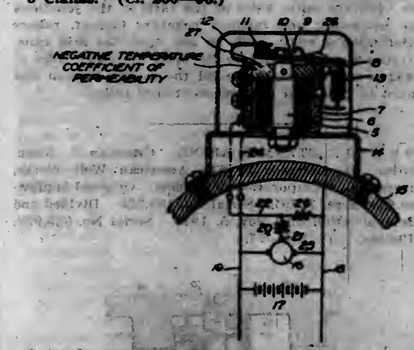
2. In a fortune telling device, the combination, of a back plate, a rotatable wheel thereon, said wheel having

characters on its face, a sprocket wheel integrally formed with said rotatable wheel, an apertured pendulum pivotally mounted on said back plate, and means to rotate



said rotatable wheel, upon the swinging of said pendulum, whereby to bring a character thereon opposite the aperture in the pendulum when the latter comes to rest.

1,398,463. ELECTROMAGNETIC INSTRUMENT. THOMAS L. LEE, Rochester, N. Y., assignor to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed Nov. 5, 1920. Serial No. 422,069. 3 Claims. (Cl. 200—96.)



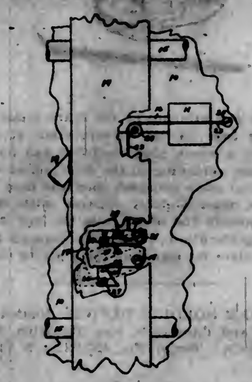
1. An electromagnetic instrument comprising: an electromagnet; an armature coöperating with the magnet; contacts controlled by the armature; a spring controlling the armature and adjustable to yield to a definite magnetic force; and a magnetic shunt arranged in parallel with the armature and diverting a part of the magnetic flux from the armature, said shunt consisting of a material having a negative temperature coefficient of magnetic permeability such as to compensate substantially for the temperature coefficient of resistance of the magnet-winding.

1,398,464. POWDERED MEAT PRODUCT. JOHN C. MACLACHLAN, St. Paul, Minn., assignor to Standard Food Products Company, St. Paul, Minn., a Corporation of Delaware. Filed Oct. 4, 1919. Serial No. 328,494. 6 Claims. (Cl. 99—5.)

2. A dry powdered meat product containing the original fiber and extractives, the fiber thereof being partially predigested but the extractives therein being in natural condition and having their natural flavor.

6. The process of producing a meat product containing the original fiber and extractives, which consists first in reducing the meat to a finely divided form, then temporarily separating the fiber from the extractives, then partially predigesting the fiber by the use of hydro-chloric acid, then neutralizing the free hydro-chloric acid to form a salt, then recombining the partially digested fiber with the extractives, and thereafter reducing the commingled mass to substantially dry comminuted form.

1,398,465. AUXILIARY LOCK. ROBERT D. PATTERSON, Fort Dodge, Iowa. Filed Jan. 19, 1921. Serial No. 438,242. 7 Claims. (Cl. 109—8.)



1. An auxiliary locking mechanism for doors having laterally movable boltwork, comprising a locking bar pivotally mounted on said door, a leg secured to said boltwork and adapted to be engaged at times by the free end of said locking bar, a supporting bar pivotally mounted on said door independently of said locking bar and normally engaging and supporting said locking bar in inoperative position, and frangible means for holding said supporting bar in supporting position.

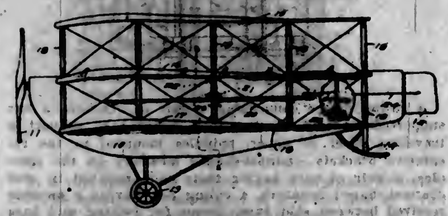
1,398,466. AEROPLANE. JONATHAN H. RHA, Omaha, Nebr. Filed Jan. 17, 1921. Serial No. 438,042. 2 Claims. (Cl. 244—15.)



1. An aeroplane comprising a pair of coöperating planes running longitudinally of the aeroplane and having their upper ends secured close together at a substantially acute angle and parallel with the longitudinal axis of the aeroplane, said planes diverging downwardly, the lower edges of such planes lying at the outermost sides of the aeroplane, said planes providing a substantially triangular space therewithin open at its front and rear ends and also at its bottom, braces extending in spaced relation transversely across the bottom of said space and secured to the lower divergent edges of said planes, a propeller forwardly of said planes and directly in front of the space between said planes, steering mechanism opposite of the space between said planes and directly in rear of such space to receive air currents passing

therethrough, and a horizontally turning helicopter propeller lying above the central portions of the planes and adapted to direct streams of air downwardly on the opposite divergent surfaces of the planes.

1,398,467. FLYING-BOAT. LUKE D. REED, Burnham, Ill. Filed Oct. 4, 1920. Serial No. 328,446. 4 Claims. (Cl. 244—14.)

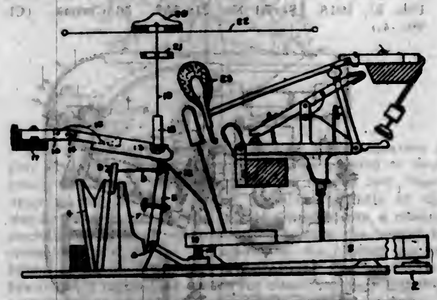


1. A flying machine comprising a body having a propeller at one end, a balance plane disposed above the body and operatively connected thereto and extending approximately the full length of the body, a plurality of planes disposed below the balance plane and extending laterally from the body, all of said planes having a length parallel to the axis of the body greater than the width of the planes transverse to the axis, and elevating planes extending longitudinally parallel to the axis of the body and disposed between a pair of main planes and having a length greater than the distance between the adjacent planes but less in length than the length of said planes, and means for controlling the position of said elevating planes.

1,398,468. PROCESS OF MANUFACTURE OF HYDROGEN PEROXID. ALBERT J. SCHUMACHER, San Francisco, Calif. Filed Nov. 9, 1920. Serial No. 422,942. 2 Claims. (Cl. 23—10.)

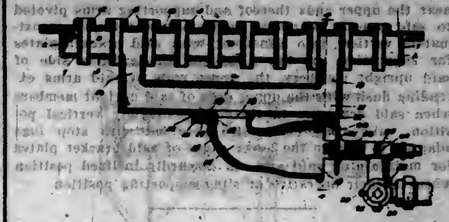
2. The step in the process of manufacturing hydrogen peroxid of continuously cooling sulfuric acid during hydration and admitting said cooled hydrated sulfuric acid to the process through cooled conduits as and for the purposes described.

1,398,469. PNEUMATIC ACTION. JUSTIN O. SCHWARZ, New York, N. Y., and GUSTAV BJORKLUND, West New York, N. J. Filed Oct. 6, 1917. Serial No. 195,193. 2 Claims. (Cl. 84—26.)



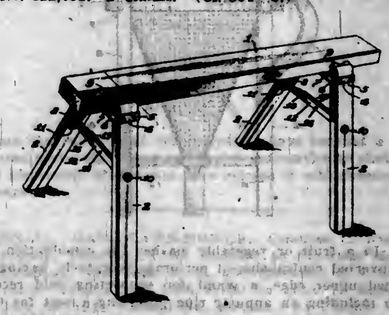
2. In a piano and player action of the class described, an actuating pneumatic and key in front of the same, a bell crank pivoted between said pneumatic and said key whereby said action may be operated by said key or by said pneumatic through said bell crank and said key, one leg of said bell crank substantially immediately under the inner end of said key, said pneumatic, key and bell-crank substantially in horizontal alinement.

1,398,470. GAS-BURNER. GEORGE E. SHARER, Steubenville, Ohio. Filed Oct. 18, 1920. Serial No. 417,668. 8 Claims. (Cl. 158—110.)



2. The combination in a gas burner, of a longitudinal head having burner openings, auxiliary air supply means centrally of these openings, means for distributing a combustible mixture uniformly to such openings and including a riser approximate each end of the head, and gas mixing means associated with said distributing means.

1,398,471. COLLAPSIBLE BENCH-LEG. JOSEPH S. SMART, Detroit, Mich. Filed Sept. 22, 1920. Serial No. 412,092. 2 Claims. (Cl. 304—5.)



1. Supporting means adapted to be clamped in engagement with a plank or the like, comprising wooden legs, metallic straps embracing said wooden legs adjacent the upper ends thereof, metallic connecting members having the ends thereof pivotally connected to said straps at the sides of said legs, combined reinforcing and gripping members on the inner walls of said legs of less length than said legs and having plank engaging teeth above the upper ends of said legs, apertured lugs at the lower ends of said combined reinforcing and gripping members, means extending through the upper ends of said legs connecting said straps and combined reinforcing and gripping members to said legs, and toggle arms connecting the lugs of said gripping members.

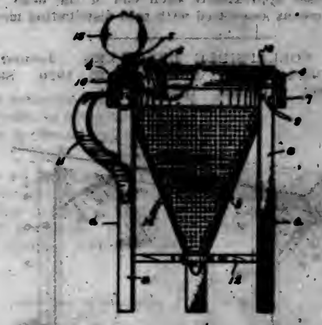
1,398,472. SUPPORTING MEANS FOR HAY-SLINGS. GEORGE S. SOWERS, Spring Hill, Kans. Filed Jan. 28, 1919. Serial No. 273,668. 1 Claim. (Cl. 296—9.)



Means for carrying hay slings on the outside of hay racks comprising, in combination, a rack bed having

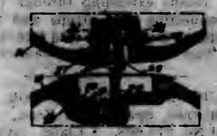
spring spotlights at one end of the bar, and pulling the sling supporting threads district of said upright members, said supporting members comprising bracket plates secured in inclined position to said upright members near the upper ends thereof and supporting arms pivoted to said bracket plates to swing substantially vertical into abutment with said bracket plates for supporting the bar clamps on the external side of said upright members, the upper ends of said arms extending flush with the upper ends of said upright members when said arms are in their approximately vertical position, said arms being also provided with stop lugs adapted to engage the lower edges of said bracket plates for maintaining said arms in upwardly inclined position when in their operative or sling-supporting position.

1,398,473. FRUIT OR VEGETABLE MASHER. ALEXANDER T. STEWART, Philadelphia, Pa., assignor to The Scientific Specialty Company, Pittsburgh, Pa. Filed July 30, 1921. Serial No. 488,621. 4 Claims. (Cl. 146—9.)



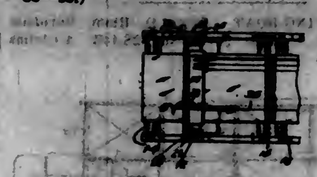
1. In a fruit or vegetable masher the combination of an inverted conical-shaped perforate receptacle having a molded upper edge, a stand for supporting said receptacle including an annular ring providing a seat for the aforesaid molded upper edge, spring gripe on said stand for clamping the perforate receptacle in position, and a conical crusher adapted for rolling movement therein.

1,398,474. PAPER-CUTTING DEVICE. ERVIN E. STRAWN, Des Moines, Iowa, assignor to The Omnigraph Company, Des Moines, Iowa, a Corporation. Filed Sept. 30, 1919. Serial No. 327,569. 2 Claims. (Cl. 164—86.)



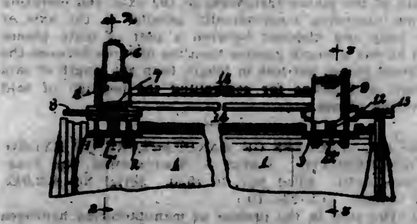
1. In a device of the class described, a pair of members mounted adjacent to each other for rotation, blade holding devices on said members, a blade mounted in one of said blade holding devices, having its cutting edge inclined radially and circumferentially from parallel with the axis of rotation of its holder, a blade mounted in the other of said blade holding devices, having one end fixed and the other end mounted for yielding movement, one of said blades having a beveled corner at its point of first engagement with the other of said blades, whereby in the rotation of the blade holding members, the blades will be brought to sliding shearing engagement beginning at the end of the blade having the beveled corner.

1,398,475. PRINTING AND RULING MACHINE. DAVID M. SAMUEL, Des Moines, Iowa, assignor to The Omnigraph Company, Des Moines, Iowa, a Corporation. Filed Oct. 23, 1918. Serial No. 258,679. 2 Claims. (Cl. 33—45.)



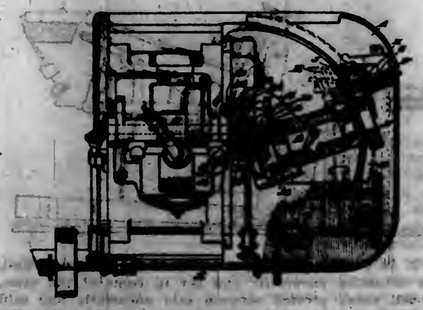
A ruling device comprising a pair of brackets, a bar supported by said brackets and adapted to support a traveling sheet of paper, spindles mounted in the respective brackets, channel-shaped members on the spindles, a pair of bars having their ends received in said channel-shaped members, a ruling pen having a member received between said bars, means for locking said bars together, and means for supplying ink to said pen.

1,398,476. PRESSURE-COOKER. ALBERT R. THOMPSON, San Jose, Calif., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif., a Corporation of California. Filed Dec. 6, 1920. Serial No. 428,666. 4 Claims. (Cl. 219—17.)



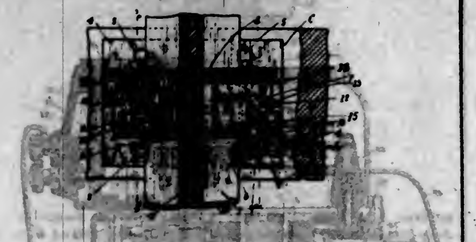
1. In a cooker, and in combination with its heating box, a can-feed valve and a can-discharge valve associated with said box, and means for conveying fluid heating-medium withdrawn from the box by the can-feed valve, into the can-discharge valve to be returned to the box by said last named valve.

1,398,477. GEAR-CUTTING MACHINE. MILTON TIBBETTS, Detroit, Mich., assignor, by mesne assignments, to James E. Gleason, trustee, Rochester, N. Y. Filed Feb. 21, 1918. Serial No. 218,557. 36 Claims. (Cl. 90—4.)



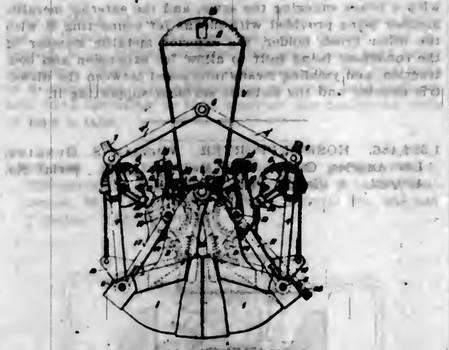
1. In a machine of the class described, in combination, a tool having a part formed with a roughing cutting edge and a part formed with a finishing cutting edge, one of said parts being mounted for movement to and from cutting position and means for effecting said movement.

1,398,478. TIE-PLATE RAIL-ANCHOR. ELMER T. VAN DUSEN, St. Paul, Minn. Filed July 27, 1921. Serial No. 487,879. 3 Claims. (Cl. 238—201.)



1. A rail anchor for railway rails, comprising relatively movable members each adapted to grip one side of a rail base and having a part extending underneath the rail base to abut beyond the other side thereof, the extending part of one member having positive slidable connection with the extending part of the other member beyond the rail, said sliding connection being disposed at an angle relative to the longitudinal axis of the rail, and openings in the anchor members adapted to receive, so that they will slide vertically therein, the shanks of spikes provided for holding the rail to the tie.

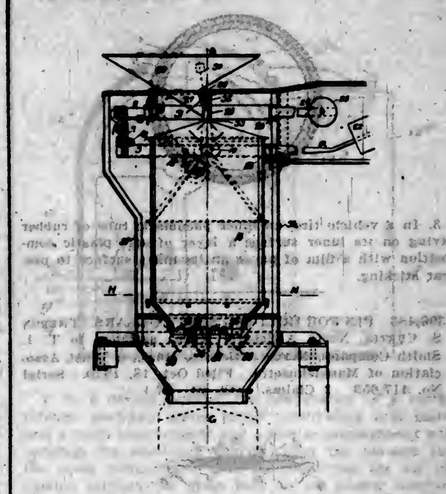
1,398,479. EXCAVATING-BUCKET. WILLIAM MARO VENABLE, Pittsburgh, Pa., assignor to Blaw-Knox Company, a Corporation of New Jersey. Filed June 23, 1920. Serial No. 391,147. 11 Claims. (Cl. 37—30.)



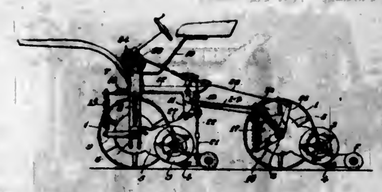
1. An excavating bucket comprising in combination a pair of scoops pivoted together, a frame pivoted to each scoop, the bucket being adapted to be opened and closed upon movement of the scoop pivot downwardly or upwardly to swing the scoops on said frame pivots, a closing mechanism for each scoop adapted to lock the bucket in closed position, means for operating the closing mechanisms acting to draw each scoop around its frame pivot toward said frame, and means for simultaneously tripping said closing mechanisms to permit the bucket to open.

1,398,480. WEIGHING-SCALE. RODOLPHE WOLTER, Buenos Aires, Argentinia. Filed Jan. 20, 1920. Serial No. 352,914. 5 Claims. (Cl. 249—52.)

1. A weighing apparatus, comprising, in combination, a balancing beam, a receptacle movable vertically relative to said beam, means for supplying material to be weighed to said receptacle, means for temporarily suspending said receptacle from the beam and automatically releasable when the contents of the receptacle have reached a predetermined weight, said means for automatically shutting off the supply of material upon release of said suspending means.



1,398,481. GANG LAWN-MOWER. CHARLES C. WORTHINGTON, Dunfield, N. J., assignor to Shawnee Mower Company, New York, N. Y., a Corporation of Pennsylvania. Filed Aug. 4, 1916, Serial No. 113,037. Renewed July 30, 1921. Serial No. 488,681. 31 Claims. (Cl. 56—7.)



1. A gang lawn mower comprising front and rear transverse rows respectively containing a plurality of lawn mower units, each unit having a cutter-driving rolling element or ground wheel, means for uniting and spacing said units comprising a main frame and unit-connecting members in non-supporting and relatively movable relation to said main frame serving to hold the units of the front row parallel to the transverse axis of the main frame and other unit connecting members serving to connect the units of the rear row to said frame, and all of said members being organized to permit the tilting of the units in the vertical planes of their respective wheel-axes.

1,398,482. PNEUMATIC TIRE. HARRISON H. ALLEN, Houston, Tex., assignor to Standard Rubber Company, Houston, Tex., a Corporation of Delaware. Filed July 15, 1921. Serial No. 485,072. 3 Claims. (Cl. 152—12.)



3. In a vehicle tire, an inner pneumatic tube of rubber having on its inner surface a layer of soft plastic composition with a film of paper on its inner surface to prevent sticking.

1,398,483. PIN FOR HOLDING SOFT COLLARS. THERON S. CURTIS, North Attleboro, Mass., assignor to T. I. Smith Company, North Attleboro, Mass., a Trust Association of Massachusetts. Filed Oct. 18, 1920. Serial No. 417,653. 3 Claims. (Cl. 24—67.)



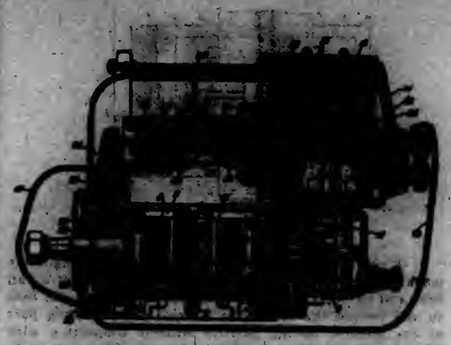
1. A soft collar holder embracing in its construction a pair of telescopic longitudinal members, one arranged to slide inside the other, each being provided with an outwardly projecting lip adapted to be pinched between the fingers, a reversely bent pointed hook secured to the outer end of each member, and an interior tension spring connected to each member and acting to draw the hooks toward each other while permitting them to move farther apart when said lips are pinched together, substantially as described.

1,398,484. HOG-HOLDING DEVICE. CHESTER HOLDING, New Richmond, Wis. Filed Jan. 22, 1920, Serial No. 353,257. Renewed Apr. 15, 1921. Serial No. 461,652. 2 Claims. (Cl. 119—98.)



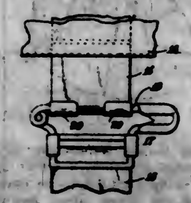
1. A device for holding hogs for the purposes stated, in the form of a tubular shell closed at one end and having a rounded rim at its other end, said shell being made up of telescoped sections making the same longitudinally adjustable.

1,398,485. MAGNETO. Stephen A. Sims, East Orange, N. J., assignor to The Simms Magneto Company, East Orange, N. J., a Corporation of New Jersey. Filed Apr. 26, 1920. Serial No. 377,169. 6 Claims. (Cl. 123—148.)



6. In a high tension magneto electric machine for multi spark ignition purposes, provided with an ungrounded secondary winding, each end of which is connected with the distributer by means of a slip ring, and separate brushes, a condenser for the secondary winding comprising a cup shaped metallic member supported by one of the brush holders, and electrically connected with the brush thereof, a cylindrical dielectric member surrounding said metallic member, and an exterior cylindrical metallic member surrounding said dielectric member, the rotary portion of the distributer being provided with a high tension conductor extending into said cup shaped member and provided with a brush engaging the same, and the exterior metallic member being provided with means for connecting it with the other brush holder, the exterior metallic member of the condenser being split to allow for expansion and contraction, and yielding means interposed between the dielectric member and the metallic surfaces supporting it.

1,398,486. HOSE-SUPPORTER. WILLIAM S. HUNKINS, Los Angeles, Calif. Filed Dec. 14, 1920. Serial No. 430,621. 4 Claims. (Cl. 24—76.)

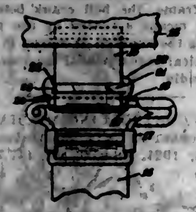


2. In a hose supporter construction, a bushing, a tape embracing said bushing, and end members connected to said bushing and embracing the outside of said tape.

1,398,487. HOSE-SUPPORTER. WILLIAM S. HUNKINS, Los Angeles, Calif. Filed Dec. 14, 1920. Serial No. 430,622. 4 Claims. (Cl. 24—76.)

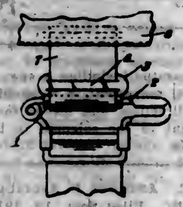
3. In a hose supporter, a bushing constituting a pin tube, a bar connected to only the opposite ends thereof

and forming a slot between the wall of said bushing and said bar of a size sufficient to receive only one



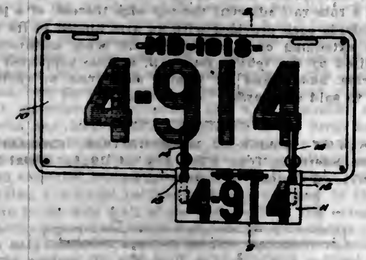
thickness of tape, and a tape embracing said bushing and having one fold thereof extending through said slot.

1,398,488. HOSE-SUPPORTER. WILLIAM S. HUNKINS, Los Angeles, Calif. Continuation of application Serial No. 430,622, filed Dec. 14, 1920. This application filed July 16, 1921. Serial No. 485,380. 1 Claim. (Cl. 24—76.)



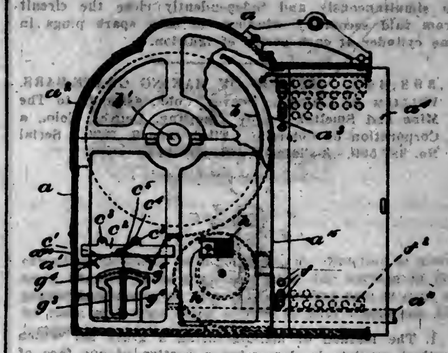
In a device of the character described, a tubular bushing, a lateral extension from one side thereof, said extension being slitted to form two bars, said bars being oppositely offset to provide a passage for the two ends of a supporting tape arranged to surround said bushing, said bars operating to hold together the projecting ends of such a tape.

1,398,489. AUXILIARY AUTOMOBILE LICENSE-TAG. FREDERICK D. JOHNSON and HENRIETTA CULLENY, Baltimore, Md. Filed May 10, 1921. Serial No. 468,405. 1 Claim. (Cl. 40—128.)



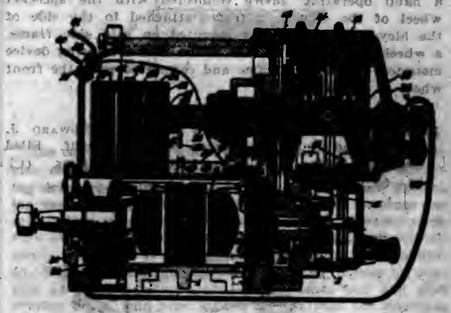
The combination with an automobile license plate, of elements secured to said plate, hook-like elements supported to said elements, a comparatively small auxiliary license tag supported by said hook-like members to project below said plate in parallel relation thereto, and sleeves of relatively soft material carried by said elements and against which the auxiliary tag rests for the purpose specified.

1,398,490. LAUNDRY-DRIER. ARTHUR KENNEDY, Newton, Mass., assignor to International Equipment Company, Boston, Mass., a Trust Association of Massachusetts. Filed May 10, 1920. Serial No. 380,888. 12 Claims. (Cl. 34—8.)



1. In a drying tumbler the combination of a casing, interior partition plates partly subdividing said casing into a drum compartment and a blower compartment with openings for admitting the air from the blowers into the drum compartment and for admitting the air circulated through the drum back to the blower compartment, an adjustable shutter arranged to partly or wholly close the opening from the drum compartment into the blower compartment, a discharge conduit leading from said drum compartment to a discharge port whereby the disharge of the air from the drum compartment into the blower compartment and the discharge passage may be controlled at will, substantially as described.

1,398,491. IGNITION APPARATUS FOR INTERNAL-COMBUSTION ENGINES. VICTOR W. KLIESRATH and FREDERICK A. HOTT, East Orange, N. J., assignors to The Simms Magneto Company, East Orange, N. J., a Corporation of New Jersey. Filed July 15, 1921. Serial No. 484,876. 13 Claims. (Cl. 123—148.)



1. The combination with an internal combustion engine, provided with two spark plugs in each cylinder thereof, a magneto having a main primary winding, a main secondary winding electrically connected thereto, a periodic interrupter in circuit with said main primary winding, and a distributer connected to the main secondary winding, and to one of the plugs in each cylinder, of a stationary magnet comprising a core, an auxiliary primary winding connected in series with the main primary winding, and an auxiliary secondary wind-

ing connected with the auxiliary primary winding, and a second distributer connected with the auxiliary secondary winding and with the other spark plugs of said cylinders, said distributers each comprising stationary contacts, and a rotary contact, said rotary contacts being insulated from each other and rotating in unison to simultaneously and independently close the circuit from said secondary windings to both spark plugs in one cylinder at each period of ignition.

1,398,492. METHOD OF MAKING GRATE-BARS. WILLIAM A. LEBOUIT, Denver, Colo., assignor to The Mine and Smelter Supply Company, Denver, Colo., a Corporation of Colorado. Filed June 9, 1920. Serial No. 387,599. 3 Claims. (Cl. 29—148.)



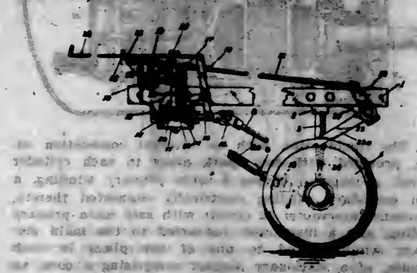
1. The method of manufacturing a grate bar which method consists in depressing a portion of one face of a blank out of the plane of that face to form a projection or pad on the opposite face.

1,398,493. CYCLE-CAR. LUTHER M. PAYNE, Bethany, Okla., and LEE A. MILLER, Greenville, and JOHN J. DOUGLAS, Dallas, Tex. Filed June 15, 1921. Serial No. 477,271. 6 Claims. (Cl. 206—45.)



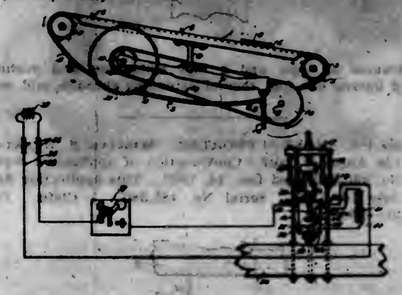
1. In a cycle car, the combination with a bicycle, of a hand operating device connected with the sprocket wheel of the bicycle, a frame attached to the side of the bicycle frame, a seat mounted on said side frame, a wheel supporting the side frame, and a steering device mounted on the side frame and connected with the front wheel of the bicycle.

1,398,494. POWER-LIFT FOR PLOWS. EDWARD J. KRAUSE and JOHN W. HOWARD, San Jose, Calif. Filed Sept. 23, 1920. Serial No. 412,479. 10 Claims. (Cl. 97—54.)



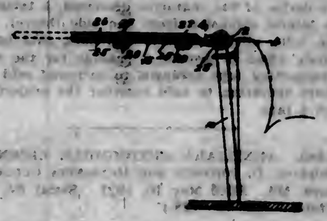
1. A power lift for wheeled plows comprising a frame, a shaft mounted thereon, an arm fixed on said shaft, a link pivotally mounted on the frame adjacent to the shaft and adapted to be connected to the plow, a vertical spindle supporting said wheel and arranged for vertical movement relative to the frame, the bell crank being connected to the spindle, and means actuated by the rotation of said wheel for causing the shaft to be moved in either direction to impart a vertical translational movement in a vertical plane to the spindle.

1,398,495. SAW-CONTROLLING MECHANISM. GUY L. ROGERS and ROBERT E. GRAY, Snoqualamie Falls, Wash. Filed Feb. 28, 1921. Serial No. 447,791. 5 Claims. (Cl. 143—41.)



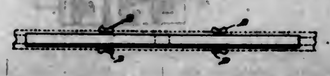
1. A sawing apparatus including a saw carrying frame mounted for pivotal movement, a solenoid for operating the frame in one direction, and means for automatically reducing the current to the solenoid to hold the frame in operated position.

1,398,496. TABLE. ANTHONY P. SALTALAMACHIA, Huntington Park, Calif. Filed Sept. 10, 1919. Serial No. 322,936. 2 Claims. (Cl. 45—51.)



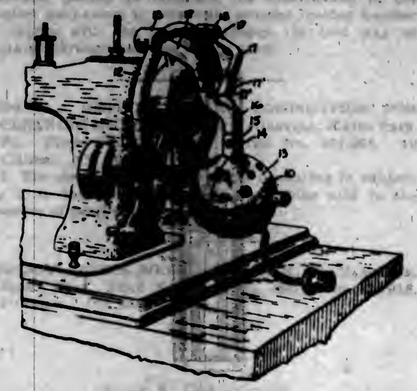
1. In combination with the back of a motor vehicle seat having a robe rail adjacent the top edge thereof, of a pair of standards each provided with an arm hinged to its upwardly extending end, said standards being maintained in position by the vehicle robe rail, a table supported on said arms, and means for locking said arms at various angles to said standards.

1,398,497. CAR-RAIL HOSE-BRIDGE. CHARLEY P. TYLER, Sherman, Tex. Filed Jan. 24, 1921. Serial No. 439,671. 2 Claims. (Cl. 104—275.)



1. A hose-bridge for car-rails, comprising a body portion, an opening within said body portion, inclined ways or tracks over said body portion above said opening, a groove on one side of said inclined ways or tracks, flanges on each side of the body portion extending down on each side of the head of railway rail, and set screws fitting in the flanges of the hose-bridge having the screw end adapted to engage with the web of the railway rail.

1,398,498. SUSPENSION-DRIVE FOR SEWING-MACHINES. WILLIAM J. BROWN, Newark, N. J. Filed Jan. 29, 1920. Serial No. 355,449. 6 Claims. (Cl. 74—26.)



1. The combination with an axially supported rotatable machine element, of means for imparting rotary movement to said element by frictional contact therewith applied therebeneath, and means for supporting the first named means from said rotatable machine element.

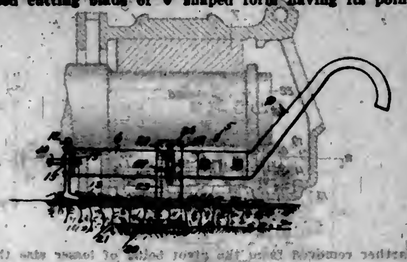
1,398,499. COVER-LOCK. GEORGE A. BURNHAM, Saugus, Mass., assignor to Sears B. Condit, Jr., Brookline, Mass. Filed Mar. 31, 1919. Serial No. 286,352. 1 Claim. (Cl. 292—194.)



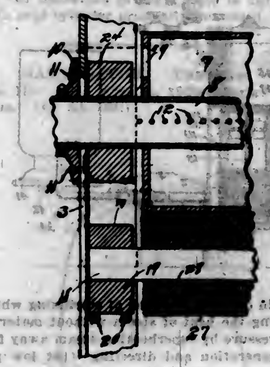
A receptacle having a body portion and a cover having a side-wall depending down over a side-wall of the body-portion, the cover side-wall having a circular lock-member receiving aperture therethrough and a slot having a width less than the diameter of said aperture extended from the lower edge of the side-wall to said aperture arranged to admit a lock-member within said aperture, the side-wall of said body-portion having a smaller aperture alined with the aperture in said cover, and a lock-member for said cover and body-portion comprising a flat strip having a width approximately equal to the diameter of the circular aperture and a thickness less than the width of said slot and extended beyond the side-wall of the cover, said strip having a reduced portion rotatably received in the aperture in the side wall of the body-portion and extended inwardly beyond said side-wall, and a spring-plate received on said extended reduced portion arranged to press said strip against the side wall, said extended reduced portion formed with an enlarged inner end-portion arranged to retain said spring-plate in place.

1,398,500. WEEDER. GEORGE M. CARKEY, Bloomington, Calif. Filed Nov. 18, 1919. Serial No. 338,850. 1 Claim. (Cl. 55—60.)

A weed cutting machine, comprising a substantially rectangular strap iron frame having handle bars secured to two oppositely disposed sides of said frame, a ground contact shoe adjustable in a vertical direction secured to the front end of said frame, and a flat horizontally disposed cutting blade of V shaped form having its point extending forwardly with respect to the direction of movement adapted to be projected under the surface of the ground and having an upwardly extending arm at each of its ends, said arms being pivoted to said frame and adjustable in a vertical direction.



1,398,501. DETACHABLE MANGLE. HARRY L. CARSON and ROSSIE A. HUNTER, Fort Worth, Tex. Filed Sept. 13, 1920. Serial No. 409,784. 1 Claim. (Cl. 68—9.)

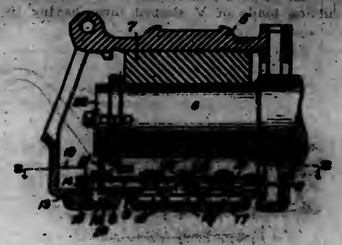


The combination of a driving head and a mangle detachably connected to said head, said mangle having a revolving drum pad driven by said head, a hollow pipe extending through said mangle, vertically movable bearings for said hollow pipe, means for adjusting and applying pressure to said bearings to hold said pipe at different adjustments relative to said drum, a hollow ironing drum mounted loosely on said pipe and adapted to be driven by friction of goods passing between said drum pad and said ironing drum, said pipe having perforations for directing gas jets within said drum, and means for supplying gas and air through said hollow pipe for heating said drum.

1,398,502. JOURNAL-LUBRICATING DEVICE. IRA S. DEWEESE and EDWIN S. PEARCE, Indianapolis, Ind. Filed Nov. 10, 1914. Serial No. 871,602. 7 Claims. (Cl. 64—24.)

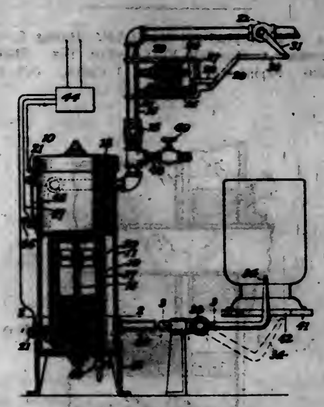
1. The combination with a journal box and its journal, of a plurality of oil pockets below the journal, an oil gap-

jecting device the cock pocket, and a pivoted support for the projecting device, the pockets and the rail fastener



farther removed from the pivot being of lesser size than those which are closer.

1,396,502. APPARATUS FOR AND METHOD OF STERILISING MILK-CANS AND OTHER CONTAINERS. ARTHUR L. DUNHAM, New York, N. Y. Filed Oct. 12, 1916. Serial No. 125,167. 7 Claims. (Cl. 167—8.)

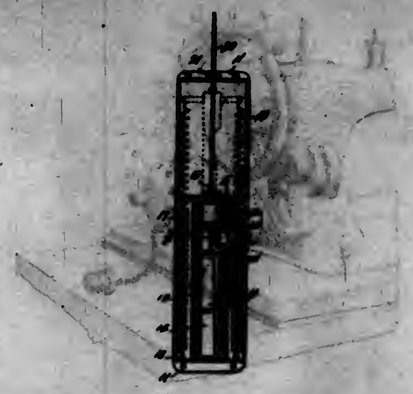


1. The herein described method of sterilising which comprises increasing the heat of steam without materially increasing its pressure by superheating steam away from the point of its generation and directing it at low pressure onto the article to be sterilised.

2. An apparatus for sterilising comprising a closed superheating chamber having a steam inlet and a steam outlet, means associated with said chamber for superheating steam delivered thereto without materially increasing its pressure, and means connected with said outlet for directing the superheated steam onto the surface of the article to be sterilised.

1,396,504. DOOR CLOSER AND CHECK. COCIU ENACHE, Dallas, Tex. Filed Apr. 11, 1921. Serial No. 460,303. 2 Claims. (Cl. 16—49.)

2. In a device of the character described, an elongated casing, partitions at the lower end of the casing arranged transversely and spaced to form a guideway therebetween, one of said partitions having a slot, a plunger arranged in the guideway between the partitions and having an inclined face terminating in a notch, a resilient detent extending through the slot of said partitions and normally projecting into the notch of the plunger and disposed in the path of the inclined face thereof, a cross bar in the upper end of the plunger normally resting on the upper ends of the partitions, coiled springs having their upper end attached to the plunger and extending down on each side of the partitions, the lower ends of the springs being



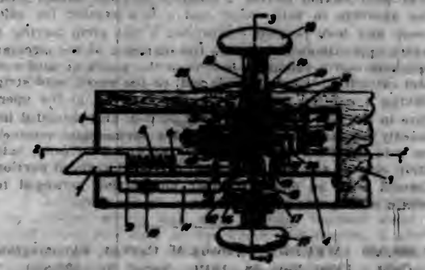
attached to the lower portion of the casing, and a flexible connection attached to the upper end of the plunger and extending to the upper end of the casing.

1,396,505. TREE-SPRAY. BAYLESS W. GERHART, San Bernardino, Calif., assignor to United States Spray Company, San Bernardino, Calif., a Corporation of California. Filed Jan. 12, 1920. Serial No. 351,077. 3 Claims. (Cl. 167—6.)



1. composition of matter comprising a major proportion of water, and a minor proportion of an oily saponaceous matter, crude carbolic acid emulsified, and sodium fluorid in substantially the proportions as specified.

1,396,506. COMBINATION-LOCK. CLARENCE H. GOUDLAY and WALTER B. GOUDLAY, Jamaica, N. Y. Filed Mar. 4, 1920. Serial No. 363,150. 12 Claims. (Cl. 70—53.)

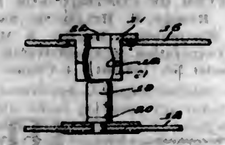


1. A combination lock embodying a bolt, a knob, an annular toothed member fixed for rotation with the knob and adapted to engage with the bolt, tumbler mechanism operable through rotation of the knob for normally maintaining the annular toothed member out of engagement with the bolt, and a dial associated with the knob and rotatable thereby to facilitate the conditioning of the tumbler mechanism to permit the annular toothed member to engage with the bolt, whereupon the bolt may be operated through rotation of the knob.

1,396,507. METHOD OF AND COMPOSITION FOR CLEANING METALS. JAMES H. GRAVELL, Elkins Park, Pa. Filed Feb. 27, 1920. Serial No. 361,606. 10 Claims. (Cl. 106—8.)

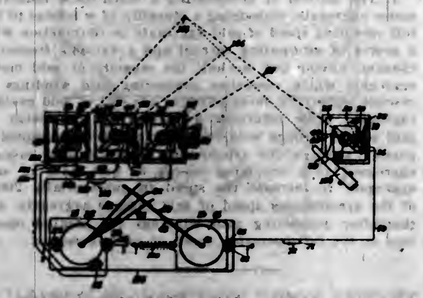
1. The method of cleaning metal consisting in subjecting it to the solvent action of an etching acid in the presence of fusel oil.

1,396,508. CHECK-BOOK. WILLIAM H. W. HAMILTON, Baker, Oreg. Filed Nov. 15, 1920. Serial No. 424,018. 7 Claims. (Cl. 281—29.)



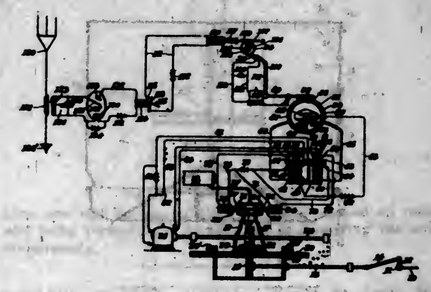
1. A check book comprising in combination a cover, a flap attached to one cover-member, and check punching means, said means consisting of a snap fastener having one element secured to said flap and the coöperating element thereof secured to the other cover member.

1,396,509. RANGE-FINDER. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed July 27, 1917, Serial No. 183,118. Renewed Dec. 20, 1920. Serial No. 432,138. 12 Claims. (Cl. 33—66.)



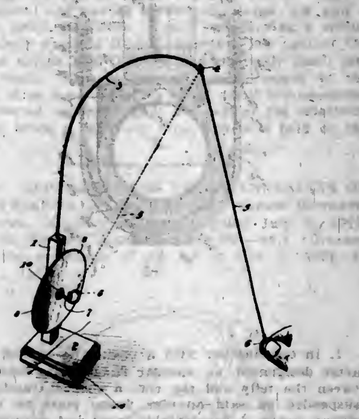
1. In a range finder, the combination with a main sighting unit, of a secondary sighting unit, an auxiliary sighting unit, a main indicating element controlled by said main sighting unit, and a plurality of separately movable secondary indicating elements separately controlled by said secondary sighting unit and said auxiliary sighting unit respectively, said secondary indicating elements being arranged to coöperate with said main indicating element to indicate a plurality of distances.

1,396,510. STEERING CONTROL. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Mar. 30, 1916, Serial No. 226,534. Renewed Apr. 15, 1921. Serial No. 461,679. 13 Claims. (Cl. 114—21.)



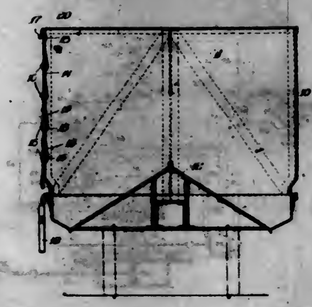
11. In a steering mechanism, a cylinder provided with an inlet port and an exhaust port, a piston mounted in said cylinder for reciprocating movement, a rudder operatively connected to said piston, said ports being on the same side of said piston, controlled means for admitting pressure through said inlet port to shift said piston, and means to gradually close said exhaust port, whereby the escape of the operating pressure fluid is cut off and the pressure in said cylinder gradually increased.

1,396,511. GAME DEVICE. THEODORE W. HANRATH, Chicago, Ill. Filed Nov. 24, 1920. Serial No. 426,139. 2 Claims. (Cl. 64—24.)



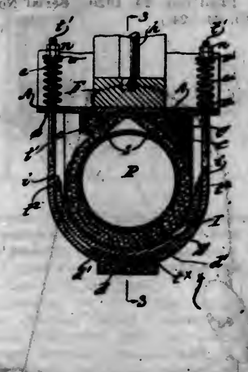
1. A game device having a platform, a post rising from it, a hook supported by the post and mounted a slight distance above the platform, a one piece metallic rod extending upward and forward from the hook, and a ring suspended from the upper end of the rod for swinging movement toward the hook and possible engagement therewith, the rod being freely resilient, whereby flexure and release of the same will cause the ring to travel in an irregular course during its swinging movement toward the hook.

1,398,512. RAILWAY-CAR CONSTRUCTION. Hagop S. Hann, Chicago, Ill. Filed Sept. 20, 1919. Serial No. 324,163. 5 Claims. (Cl. 105—368.)



3. A railway car having a body portion including a side with corrugations formed therein, and ladder rungs secured to said car side adjacent the deepest portion of said corrugations.

1,398,513. PNEUMATIC-TIRE TREAD. James A. Healy, Brooklyn, N. Y. Filed Apr. 14, 1921. Serial No. 461,253. 4 Claims. (Cl. 152—16.)



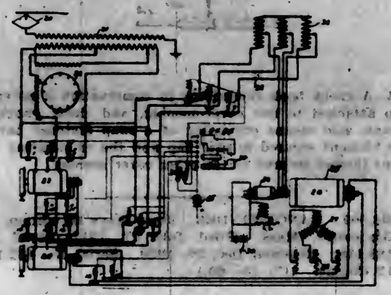
1. In combination with a pneumatic tire of the character designated, an annular flange plate interposed between the felly and the rim, a shaped traction stirrup suspended on said annular flange plate by elastic resilient means, a demountable tread pad mounted on said stirrup, and an intermediate metallic bearing plate interposed between said tread pad and the shoe of the tire, for the purpose described.

1,398,514. AMUSEMENT APPARATUS. James A. Healy, Brooklyn, N. Y. Filed May 6, 1921. Serial No. 467,794. 3 Claims. (Cl. 104—65.)

1. In amusement apparatus of the character designated, the combination of an endless channel runway comprising semi-circular curves and loops connected by straight stretches of channel the floors of which are reversely inclined, an endless string of cars spaced apart to said endless channel runway and coupled together by flexible connections, and means of propelling said cars around said endless channel runway, for the purpose described.



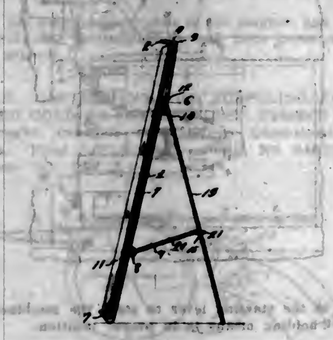
1,398,515. SYSTEM OF CONTROL FOR INDUCTION-MACHINES. Rudolf E. Hellmund, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 15, 1917. Serial No. 168,664. 4 Claims. (Cl. 174—274.)



1. The method of accelerating a multi-speed induction motor aggregate, embodying a plurality of windings to the full operating speed of said aggregate in conjunction with a source of alternating current and a variable frequency changer, having but one-half the capacity of said motor aggregate which comprises connecting said windings in cascade, supplying energy first to one end of said cascade aggregate while returning a portion of the energy to said source through said frequency changer, subsequently passing through the synchronous speed of said cascade aggregate, then supplying energy to both ends of said aggregate to increase the speed to substantially 200% of the synchronous speed of said cascade aggregate, and thereafter connecting said windings for parallel operation at the full operating speed of said aggregate.

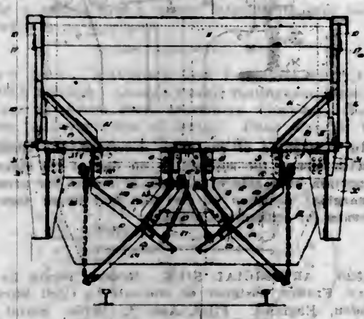
1,398,516. HASEL. Aaron Hermanson, Rockford, Ill. Filed Dec. 16, 1919. Serial No. 345,249. 1 Claim. (Cl. 40—151.)

A wire easel formed from three substantially U-shaped members, one of said members having its central horizontal portions provided with a hook adapted to hook over the upper end of an article, said hook being formed by bending the wire forming the member so as to form vertically disposed adjacent parallel portions, said vertically disposed parallel portions adjacent the horizontal portions being provided with outwardly extending bends, a loop extending around the vertically disposed portions between the outwardly extending bends and the horizontally disposed portions for holding said vertically disposed portions against spreading, said bent out portions forming means for preventing longitudinal movement of the loop on the vertically disposed portions, the lower end of the arms of said U-shaped member being provided with hooks for hooking under the lower end of an article, one of said U-shaped wire members forming a supporting leg and having the ends of its arms pivotally connected



to the first mentioned U-shaped member, said arms being provided with offset portions, the other U-shaped wire member having its arms slidably mounted and connected to the arms of the supporting U-shaped member and at points above its offset portions which form limiting stops, said last named U-shaped member being pivotally connected to the downwardly extending arms of the first mentioned article receiving U-shaped member and forming means for bracing and holding the supporting member.

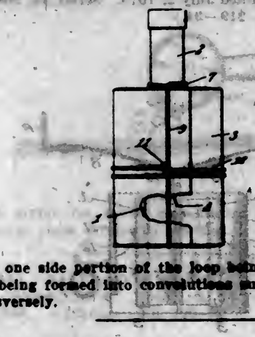
1,398,517. DUMP-CAR. David Hindahl, Chicago, Ill., assignor to Rodger Ballast Car Company, Chicago, Ill., a Corporation of Maine. Filed Dec. 11, 1920. Serial No. 430,074. 24 Claims. (Cl. 105—243.)



1. A car of the class described having a bottom comprising a longitudinally extending hopper, said hopper having an inclined stationary side and an inclined movable side, said movable side including means for directing the load discharged from the hopper to one side or to the other side of a rail.

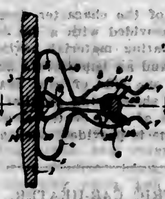
1,398,518. FLASHLIGHT-BATTERY. Harry H. Hipwell, Pittsburgh, Pa. Filed Nov. 16, 1920. Serial No. 424,525. 1 Claim. (Cl. 206—38.)

In a device of the class described, a flash light battery core including a stem; a cover surrounding the core; a rubber band formed into a plurality of convolutions surrounding the stem, the said convolutions being extended to fashion a loop disposed longitudinally of the



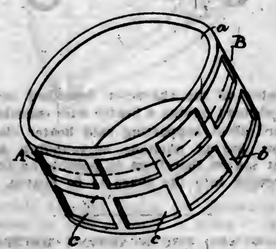
core, one side portion of the loop being crossed on itself and being formed into convolutions surrounding the core transversely.

1,398,519. HANGER. Greene C. Hosch, St. Louis, Mo. Filed Mar. 14, 1921. Serial No. 452,156. 5 Claims. (Cl. 24—259.)



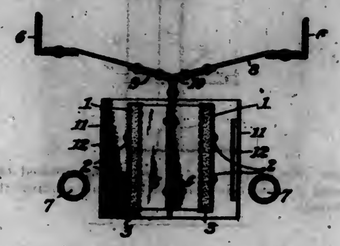
1. A hanger for holding a relatively small object or a relatively large object, comprising a base to be attached to a support, and having a relatively large jaw and a relatively small jaw, each of said jaws having a spring for yieldingly pressing its corresponding jaw against the side of an article held thereby, said relatively small jaw being normally disposed inwardly with respect to the relatively large jaw, the spring of the small jaw operating to be deflected outwardly past the face of the relatively large jaw, when a relatively large article is held by the large jaw.

1,398,520. APPARATUS FOR USE IN ANNEALING OR OTHERWISE TREATING METALS. Alfred Howgate, Riddlesden, Keighley, England. Filed July 8, 1919. Serial No. 309,490. 2 Claims. (Cl. 263—49.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



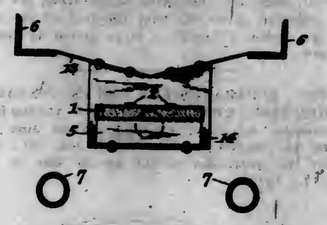
1. As a new article of manufacture an annealing pan provided with exterior projections shaped to form a dove tail or lock, and a layer of refractory material covering the surface of the annealing pan which material is held in position by said dove-tail or lock.

1,398,521. ELECTRIC CAR-HEATING SYSTEM. Lee P. Hynes, Albany, N. Y., assignor to Consolidated Car-Heating Company, Albany, N. Y., a Corporation of West Virginia. Filed July 2, 1919. Serial No. 308,150. 15 Claims. (Cl. 219—34.)



1. A car heater of the character described comprising a heater element provided with a flat body formed of a thin sheet of insulating material having a heater wire embedded therein, and an imperforate guard sheet inclosing the ends and one side of said heater element, the sides of the guard sheet being parallel with and spaced from the flat sides of said heater element, whereby an unobstructed air flue is provided, open at both ends.

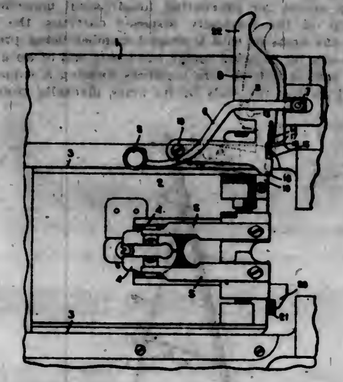
1,398,522. ELECTRIC CAR-HEATER. Lee P. Hynes, Albany, N. Y., assignor to Consolidated Car-Heating Company, Albany, N. Y., a Corporation of West Virginia. Filed July 2, 1919. Serial No. 308,151. 9 Claims. (Cl. 219—34.)



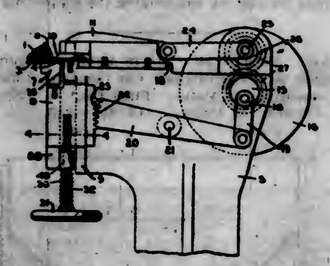
1. A heater of the character described comprising a flat heater element having a heater wire embedded therein, and a guard sheet supporting said heater element, said guard sheet having portions surrounding said heater element but spaced therefrom to provide an unobstructed air flue opening into the space to be heated.

1,398,523. GUARD FOR STARTING MECHANISM OF SEWING-MACHINES. John Kenwick, Boston, Mass., assignor to The Reece Button Hole Machine Company, Boston, Mass., a Corporation of Maine. Filed Apr. 20, 1920. Serial No. 376,590. 8 Claims. (Cl. 112—67.)

1. In a sewing machine, the combination with a base-frame, of work-holding means removable therefrom, a starting lever mounted on the base frame and by which the machine is started, and means to prevent the operation of the starting lever to start the machine until the work-holding means is in proper position.



1,398,524. MACHINE FOR ROUGH-ROUNDING AND LASTING STITCHED-DOWN SHOES. Benjamin S. La Fleur, Haverhill, Mass., assignor to The Reece Button Hole Machine Company, Boston, Mass., a Corporation of Maine. Filed Oct. 13, 1920. Serial No. 416,605. 14 Claims. (Cl. 12—2.)



1. In a machine of the class described, the combination with means for supporting on one of its sides an edge portion of a sole of a shoe, of means for pressing the marginal portions of the sole and upper together and means for trimming the sole.

1,398,525. ARTIFICIAL SILK. Robert Denis Lance, Livry, France, assignor of one-half to Cécil Shrager, London, England. Filed Apr. 1, 1918. Serial No. 758,245. 2 Claims. (Cl. 106—40.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat L., 1313.)

1. An artificial silk comprising a cellulose ester having a metallic resinate with a high fusion point, said resinate not exceeding 20%.

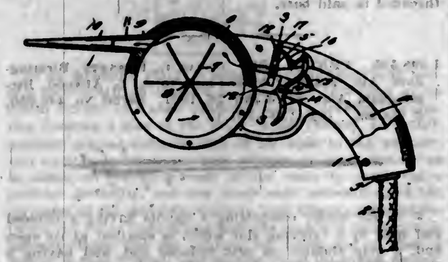
1,398,526. ELECTROMAGNETIC APPARATUS INTENDED TO MAGNETIZE PERMANENT MAGNETS. Antoine Luby, Paris, France. Filed Nov. 22, 1919. Serial No. 340,069. 6 Claims. (Cl. 175—21.)

3. In an apparatus for magnetising monobloc permanent magnets having alternating poles, a base provided with diametral grooves radiating from the center thereof, electromagnets on said base having alternating polarities, cores in said electromagnets on which are simultaneously



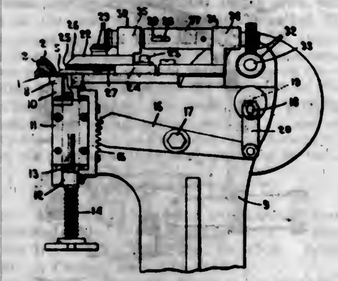
applied the corresponding ends of the magnet, and means for moving the electromagnets and their cores radially in said grooves.

1,398,527. INSTRUMENT FOR SUPPLYING COMMINUTED GOLD BY AIR-PRESSURE. Frederic James Murphatt, township of Woombye, Queensland, Australia. Filed Jan. 3, 1920. Serial No. 349,348. 4 Claims. (Cl. 32—25.)



2. In a dental surgical instrument of the class described, the combination of a handle member having an air channel therethrough, a valve chamber in the path of the air channel, a valve slidably mounted in said chamber; a bell crank attached to said valve, a trigger operatively attached to the bell crank, a spring normally holding the trigger and valve in retracted position to close the air passage, a chamber for the particles of filling metal, into which said air channel opens, a paddle wheel rotatably mounted in said chamber, the chamber having a mouth, and a nozzle attached to said mouth, substantially as described.

1,398,528. MACHINE FOR LASTING STITCHED-DOWN SHOES. Angelo Pesri, Bellingham, Mass., assignor to Reece Shoe Machinery Company, Boston, Mass., a Corporation of Maine. Filed Mar. 3, 1921. Serial No. 449,414. 7 Claims. (Cl. 12—7.)



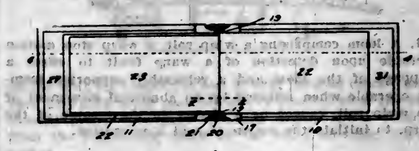
1. In a machine of the class described, the combination with a supporting member adapted to support the edge portion of the sole of a shoe, of means coöperating with said supporting member to beat together the marginal portions of the upper and sole of the shoe, and means to rotate said supporting member.

1,398,529. PHONOGRAPH-NEEDLE. Merton T. Straight, Adel, Iowa. Filed Mar. 31, 1919. Serial No. 286,584. 2 Claims. (Cl. 274—38.)



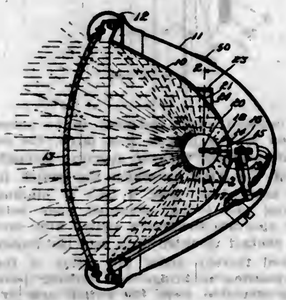
1. A stylus for sound reproducing machines, formed of natural shale artificially vitrified.

1,398,530. SALES-BOOK COVER. Ervin E. Strawn, Des Moines, Iowa. Filed Oct. 11, 1920. Serial No. 415,988. 4 Claims. (Cl. 129—38.)



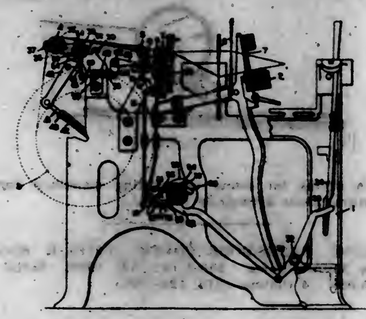
1. A sales book cover comprising cover members having a flexible connecting means, said cover members having receiving parts for a resilient band, a resilient band received in said receiving parts, and a hinge member having heads at its ends and having portions of said resilient band extended over it adjacent to its heads.

1,398,531. FOCUSING APPARATUS FOR LAMPS. Ernest F. Wackwitz, Arlington Heights, Mass., assignor to Gray & Davis Inc., Cambridge, Mass. Filed Apr. 17, 1919. Serial No. 290,803. 3 Claims. (Cl. 240—44.)



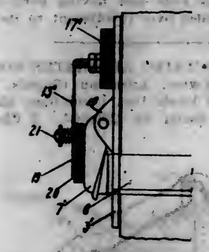
1. In a device of the character set forth, in combination, a reflector adapted to receive light rays from a focal region and to reflect said rays into a beam of light, an electric filament, means for adjustably supporting the filament in said reflector to bring it into proper position relatively to said reflector, and means comprising a perforation in said reflector, and a screen fixed on said reflector opposite said perforation and adapted to coöperate with light rays passing from said filament through said perforation to said screen to enable an operator to determine the position of said filament relatively to said reflector.

1,396,502. STOP MECHANISM FOR LOOMS. Elmer W. Youngquist, Manchester, N. H., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed July 2, 1921. Serial No. 482,086. 10 Claims. (Cl. 139—92.)



1. A loom comprising a whip roll, a warp stop motion operable upon detection of a warp fault to effect a stoppage of the loom and a releasably supported member operable when released by an abnormal movement of the whip roll, caused by a change in the tension of the warp, to initiate the action of said stop motion.

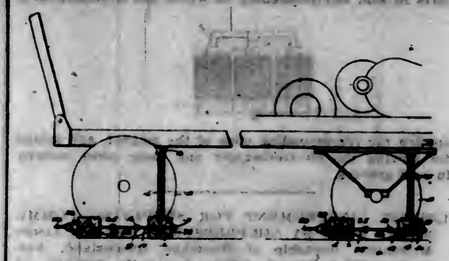
1,396,533. SWITCH. Edwin O. Anderson, Jersey City, N. J. Filed Jan. 15, 1918. Serial No. 211,914. 3 Claims. (Cl. 200—55.)



1. In an inclosed switch adapted to be actuated to closed position by the tongue of a latch, the combination of a plate provided with an aperture through which the tongue of the latch by which the switch is to be operated, is adapted to pass, a pair of binding posts insulated from each other, mounted upon said plate adjacent the aperture therein, a switch arm carried by said plate, a contact mounted upon said last-named member and moved thereby under the action of the latch tongue into position to bridge said binding posts, said contact being insulated from the switch arm by which it is sustained and from said plate, and movable automatically under the action of gravity to open position when the latch tongue is retracted.

1,396,534. WHEEL BLOCKING AND JACKING DEVICE. Alexander M. Bellony, U. S. Army. Filed Apr. 26, 1919. Serial No. 293,660. 3 Claims. (Cl. 188—32.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. A combined wheel blocking and jacking mechanism, comprising complemental, slidable wheel engaging members disposable one on each side of a wheel, means for sliding said members toward each other and against the wheel, including a detachable coupling between the members, a screw jack barrel carried by one of said members and having a threaded bore and a screw jack threaded in said bore.

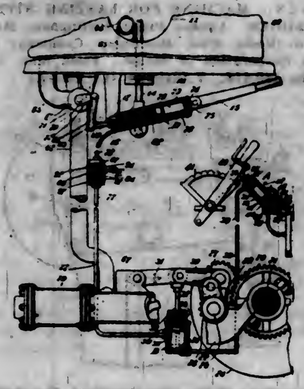


1,396,535. PENHOLDER. Oscar L. Bennett, Birmingham, Ala., assignor of one-half to A. L. Atwood, Birmingham, Ala. Filed Jan. 28, 1921. Serial No. 440,655. 2 Claims. (Cl. 120—101.)



2. A pen holder comprising a handle having a reduced end split by a tapering slot which is smallest at its open end, a grip slidable on said reduced end, and having a sleeve extension at its inner end and a cross pin at its outer end, the pin being adapted to work in the slot and expand the split handle end to clamp a pen between it and the grip, and said sleeve on the inner end of the grip being long enough to cover the reduced portion of the handle that would otherwise be exposed by the grip in its operation position.

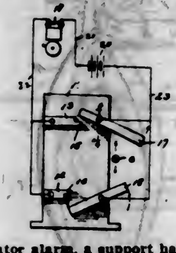
1,396,536. CONTROLLING MECHANISM FOR LOCOMOTIVE BOOSTER-MOTORS. Ray M. Brown, Yonkers, N. Y., assignor to Howard L. Ingersoll, White Plains, N. Y. Filed Apr. 28, 1920. Serial No. 377,144. 24 Claims. (Cl. 105—48.)



1. The combination with the main driving means of a locomotive and a booster motor for aiding the main driving means under predetermined operating conditions; of means for governing the application of motive power to the main driving means and booster motor comprising

one controlling member for both; and means made effective under other operating conditions of the locomotive whereby the manipulation of the controlling member affects the control only of the main driving means.

1,396,537. INCUBATOR-ALARM. William H. Clarke, Sydney, New South Wales, Australia. Filed July 3, 1919. Serial No. 308,344. 1 Claim. (Cl. 200—61.)



In an incubator alarm, a support having immovable contact-members fixed thereon to constitute terminals of an alarm circuit and each provided with a terminal projection forming a stop at the inner corner thereof, a contact-member pivoted eccentrically of its ends to the support, and adjacent each immovable contact in such manner as to admit of the outer ends of the contacts occupying a position inwardly, and the inner ends outwardly, of the fulcrums of the movable contacts, and means operating between the outer ends of the movable members and movable against either one for causing its inner end to abut a stop of a fixed contact and thereby close the alarm circuit.

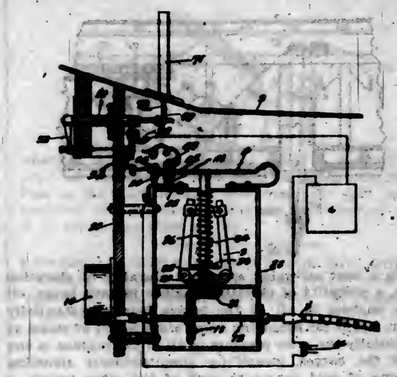
1,396,538. ANTISKID DEVICE FOR VEHICLE-WHEELS. William H. Crane, Davenport, Iowa. Filed Apr. 13, 1920. Serial No. 373,553. 7 Claims. (Cl. 152—14.)



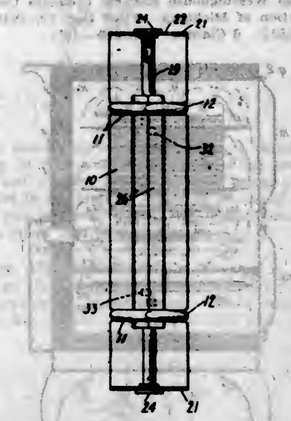
1. An anti-skid device for vehicle wheels comprising a clamp adapted to be fastened to the wheel spoke and consisting of opposing clamping jaws formed respectively with end portions bearing fixed relations to the jaws, said end portions of the jaws being pivotally connected directly together permanently in such manner that in their opening and closing movements the jaws will be confined in a common plane which extends transversely of the spoke, a clamping device acting on the opposite ends of the jaws to draw them together on the spoke, and a gripping element permanently connected at one end to one of said relatively fixed portions and adapted to be detachably connected at its opposite end to said clamping device.

1,396,539. AUTOMATIC SPEED CONTROL. Edgar J. Crawford, Seattle, Wash., assignor to J. Eugene Jordan, Seattle, Wash. Filed Aug. 26, 1919. Serial No. 319,991. 4 Claims. (Cl. 123—118.)

1. A speed control mechanism for gas engines comprising, in combination, an electric circuit adapted to produce a spark in the engine cylinders, a governor connected to the engine to be regulated by the speed thereof, a plurality of parallel circuit members, a selective switch adapted to throw any one of said parallel circuit members into the circuit and to exclude the remainder, an arm engageable by and movable by the governor, a fixed contact member, and a plurality of contact members carried by and movable with said arm out of contact with the fixed contact member, each of said movable contact members being connected with its respective one of said parallel circuit members, and each being movable out of contact with the fixed contact point at a predetermined engine speed differing from the controlling speed of the other movable contact points.



1,396,540. LOOSE-LEAF BINDER. Schuyler E. Day, New York, N. Y. Filed Aug. 30, 1917. Serial No. 188,207. 20 Claims. (Cl. 129—24.)

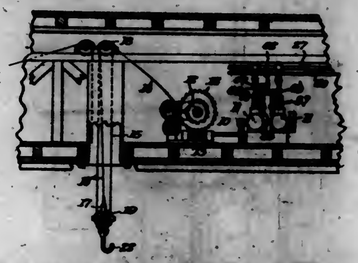


1. In a loose leaf binder, a binding element comprising arms having elastic connections, and means upon which said elastic connections are revolubly arranged, whereby said element may be moved to different operative positions.

10. In a loose leaf binder, the combination of a frame, a plurality of binding elements provided with arms having elastic connections and adapted to be opened and closed, and a support for the binding elements reciprocably mounted in said frame.

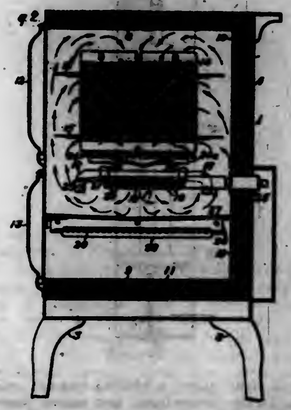
14. In a loose leaf binder, a binding element comprising in combination, a pair of ring hooks adapted to hold loose leaves, a spring member connecting said hooks and tending normally to keep said hooks in closed position, and means operating to keep said hooks in open position when said hooks have been opened to a certain predetermined degree.

1,398,541. SHIP-SALVAGING APPARATUS. Henry D. Dean, Benton Harbor, Mich., assignor of one-half to Fred J. Petrovics, Chicago, Ill. Filed Dec. 12, 1919. Serial No. 344,574. 3 Claims. (Cl. 114—51.)



1. In a boat salvaging system, a plurality of elevating barges, a plurality of elevating engines in each barge, all of the engines in all of the barges being substantially similar, means for supplying a uniform amount of steam at substantially the same pressure to all of the engines in any one of the barges, means for simultaneously signaling from one of said barges to each of the other barges, a plurality of devices adapted to be connected to a sunken vessel, an elevating drum operatively connected with each of said engines to be rotated continuously as the engine is operated, and cables respectively connecting said devices with said drum, whereby said devices when connected to a sunken vessel may be pulled upwardly continuously and with uniform forces.

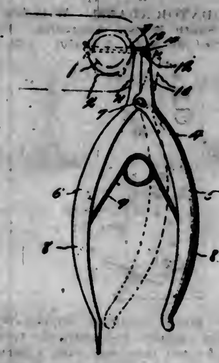
1,398,542. ARRANGEMENT OF HEATERS IN ELECTRIC OVENS. Frank F. Forshee, Flint, Mich., assignor to Westinghouse Electric Products Company, a Corporation of Michigan. Filed Dec. 13, 1919. Serial No. 344,511. 6 Claims. (Cl. 219—19.)



1. In an electric range, the combination with an oven having a chamber and means for dividing said oven into an upper and a lower compartment, of a single electric heating element mounted in the upper compartment, and means for causing said heating element to uniformly heat said upper compartment by convection.

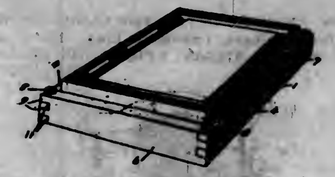
1,398,543. COTTER-PIN EXTRACTOR. Edwin Roy Galbraich, Lebanon, Pa. Filed Jan. 18, 1921. Serial No. 436,916. 2 Claims. (Cl. 29—86.2.)

1. A cotter pin extractor comprising a pair of members pivoted together intermediate their ends, the ends at one side of the pivot extending away from each other and forming handles, a spring interposed between said handles, the other ends of said pivoted members forming jaws engaging each other and held in engagement by the spring between the handles, one of said jaws having an outwardly extending arm terminating in a hook adapted to engage in the eye of a cotter pin, the other jaw being



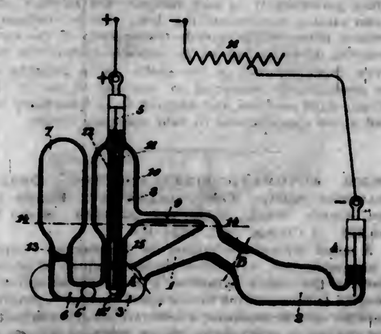
provided with a lug extending outwardly from its side and in the opposite direction to the hooked arm of the adjacent jaw, said last named lug forming a fulcruming point for the tool during a twisting operation of the tool, simultaneously with a pin extracting operation.

1,398,544. FRAME FOR PRINTERS' FORMS. Lester G. Garen, San Francisco, Calif. Filed June 30, 1921. Serial No. 481,618. 5 Claims. (Cl. 101—404.)



1. In combination with a printer's form of the character described, a rectangular frame comprising four frame members having registering tongues and grooves at either end and set screws for yieldingly joining the frame members at the corners.

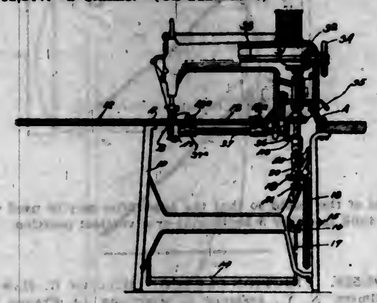
1,398,545. MERCURY-LAMP. Henri Georges, Paris, France. Filed Apr. 4, 1919. Serial No. 287,554. 7 Claims. (Cl. 171—42.)



3. A mercury vapor lamp as claimed in claim 2 wherein a small tube is joined with the top of the gas containing

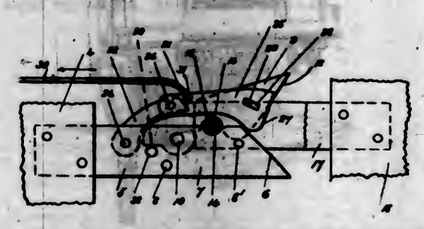
vessel and terminating short of the lower end thereof, and the lower portion of the positive terminal being in the form of a helical tungsten wire accommodated in the small tube and having the extreme lower end thereof immersed in the mercury.

1,398,546. SEWING-MACHINE. James E. Goforth, Des Moines, Iowa. Filed Jan. 31, 1921. Serial No. 441,307. 2 Claims. (Cl. 112—220.)



1. In a sewing machine, a frame, a sewing machine head having an operating shaft, a gearing device mounted on said frame, an upright shaft operatively connected with said gearing device, an upright shaft supported on said head, gearing devices for connecting said last upright shaft, and the operating shaft of the head, a rotary shuttle, a shaft for operating said rotary shuttle, gearing devices for connecting said second upright shaft and said shuttle operating shaft.

1,398,547. DRAFT ATTACHMENT. Joseph A. Graham, Alleman, Iowa. Filed Mar. 17, 1921. Serial No. 453,069. 4 Claims. (Cl. 213—67.)



2. In a draft attachment, a coupling member comprising a stationary jaw and a pivoted jaw, said jaws having beveled rear ends which form a V-shaped guide and having opposed notches, a coupling member having a coupling pin for engaging with the said guide and notches, means for locking the pivoted jaw in its closed position, and a push-plate operatively connected with the locking device and actuated by the said coupling pin before it engages with the beveled end of the said pivoted jaw.

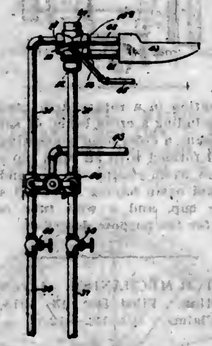
1,398,548. CHAIN TIGHTENING AND RELEASING DEVICE. Ellyson Green, Winterset, Iowa. Filed Apr. 9, 1920. Serial No. 372,734. 1 Claim. (Cl. 254—78.)

A device for attaching and releasing the link member at one end of an anti-skid tire chain from the notched hook member at the other end of an anti-skid chain, comprising a lever having on one of its sides, slightly spaced apart from its ends, a notch or recess having four sides and designed to receive in said notch or recess any one of the hooks of a notched hook member on an anti-skid chain and to hold said lever against movement laterally and longitudinally relative to said member when being used, the side of said lever opposite from the side in which the notch is formed being tapered down to a narrow edge at the end, thereby forming a wedge shaped member that may be freely inserted between a link and a hook of an anti-skid chain for removing the link from the hook, and



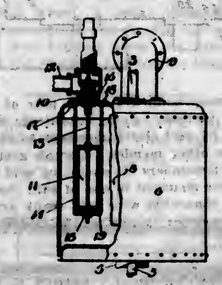
whereby the link may readily slide in position in the notch of the notched hook member, when attaching the link to the hook member and when the said recess on the other side of the lever has the hook member inserted in it, for the purposes stated.

1,398,549. AUTOMATIC VALVE FOR OIL-BURNERS. Ernest Grossenbacher, Fajardo, Porto Rico. Filed Mar. 9, 1921. Serial No. 450,847. 8 Claims. (Cl. 158—36.)



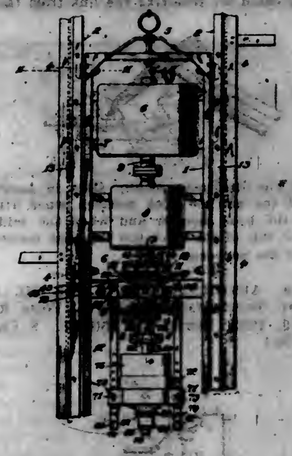
1. An automatic valve comprising a casing having a plurality of inlet and outlet passages for predetermined media, and a valve controlling said passages and itself controlled in at least one direction by one of said media, and in one position causing one of said media to pass through all of said outlet passages.

1,398,550. AIR-LIFT BOOSTER. Halbert B. Halvorsen, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Apr. 11, 1917. Serial No. 161,351. 16 Claims. (Cl. 103—84.)



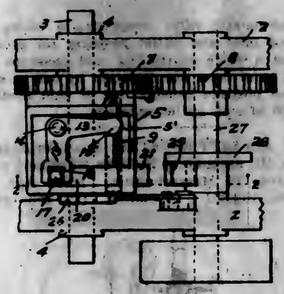
10. In an air lift booster, a booster casing having inlet and discharge pipes therein, a relief valve, a diving bell float connected to said valve, and means for preventing surging in said float.

1,398,551. BORING-DRILL. Gustav W. Harmon, Wichita, Kans. Filed Aug. 5, 1920. Serial No. 400,712. 18 Claims. (Cl. 255—19.)



1. The combination in a rotary drill head and its suspending frame including a cross beam, of supporting arms pivoted on said beam, a cross head connecting the free ends of said arms and formed with an open top cup having an outlet, an overflow basin closing the cup and communicating therewith, said basin having a central sleeve projecting through the cup, and a well tube communicating with said sleeve for the purpose described.

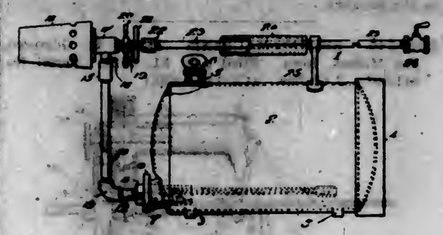
1,398,552. CLUTCH MECHANISM. Arthur W. Harris, Sleepy Eye, Minn. Filed Dec. 13, 1918. Serial No. 266,604. 10 Claims. (Cl. 192—12.)



1. A clutch comprising a shaft, a pair of clutch members mounted thereon, a reciprocating bolt member mounted in one of said clutch members to engage and interlock with the other member, a crank arm mounted in one of said clutch members for operating said bolt member, and a clutch lever mounted in one of said clutch members and operatively connected with said crank arm and rotating said clutch member to control the clutch.

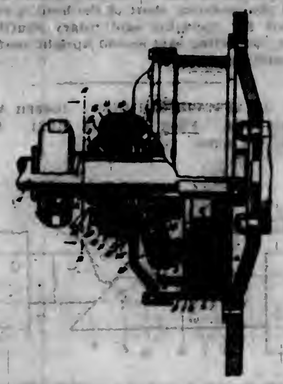
1,398,553. SUCTION-TORCH. Arthur E. Hauck, New York, N. Y.; Adolph H. Stein executor of said Arthur E. Hauck, deceased. Filed May 4, 1920. Serial No. 378,729. 5 Claims. (Cl. 158—33.)

1. In an apparatus of the class described, a suction burner, a tank and connections between the burner and tank with means therein for closing an opening above the



level of the liquid so that the apparatus may be used with the tank in either a horizontal or a vertical position.

1,398,554. FRICTION-CLUTCH. William G. Hawley, Elmira, N. Y., assignor to American La France Fire Engine Company, Inc., Elmira, N. Y., a Corporation of New York. Filed Feb. 6, 1919. Serial No. 275,427. 1 Claim. (Cl. 192—110.)

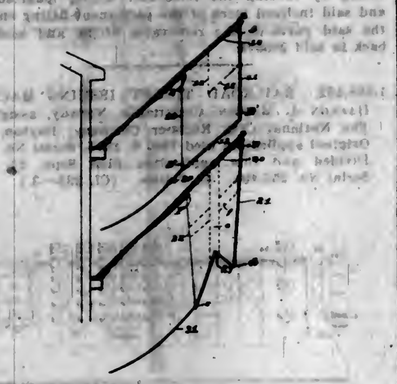


In a friction clutch, the combination of a driving member, a driven member, a clutch pack arranged between the driving and driven members, a floating abutment arranged to operate upon said clutch pack, a clutch housing carried by one of said members, said clutch housing having a cover provided with an inwardly presented threaded boss, an adjusting ring having threaded connection with said threaded boss for axial adjustment with respect to said driving and driven members, said floating abutment and adjusting ring being provided with bearing surfaces permitting angular adjustment of said floating abutment with respect to the axis of said driving and driven members, an axially movable clutch operating member, and rocker cams arranged between said clutch pack and said floating abutment and operatably connected to said clutch operating member.

1,398,555. FLAG. Gideon S. Hendrick, Hazleton, Pa. Filed May 12, 1920. Serial No. 380,650. 4 Claims. (Cl. 116—173.)

1. A flexible flag for display with its heading at an

angle between the vertical and horizontal and so constructed as to hang substantially in a plane when so displayed and having its two edges adjoining the heading making substantially the same angle with the vertical.



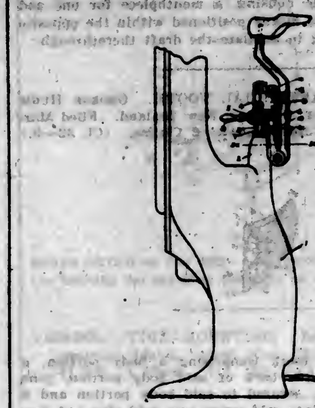
1,398,556. AUTOMATIC OPENING MECHANISM FOR CLOSET-SEAT LIDS. George Edward Kinch, Quirindi, New South Wales, Australia. Filed Apr. 13, 1917. Serial No. 161,919. 10 Claims. (Cl. 4—18.)



1. The combination with a closet seat of an automatically closing seat lid pivotally supported from said seat, said lid being so balanced that its upper side is brought forward in the open position, mechanism operable to open said lid, consisting of a press bar adjacent the front of the seat, side arms carrying said bar at their forward ends and pivoted to said seat at points intermediate their ends, and connecting members between the rear ends of said arms and said lid.

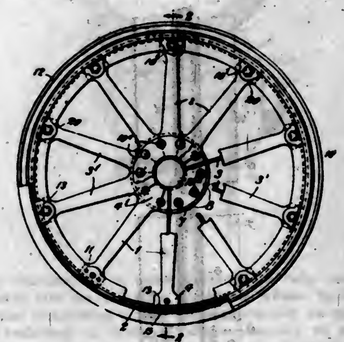
1,398,557. WORK-SUPPORT FOR SHOE-NAILING MACHINES. Robert Kontesky, Rochester, N. Y. Filed Oct. 27, 1920. Serial No. 420,040. 2 Claims. (Cl. 12—126.)

1. In a work support for nailing machines, the combination of a shank, a fork formed on the lower end of said shank, said fork having a concave back adapted to rest against a convex upright, a shaft mounted in said fork, a horn, a bearing provided in said horn adapted to have said shaft pass therethrough, said bearing having a narrow, circular throat in the middle thereof and being widened at each end, said horn being adapted to



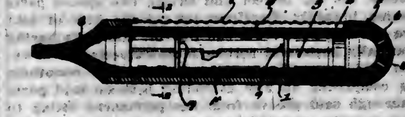
rock laterally and swing forward and backward on said shaft in said fork.

1,398,558. METAL WHEEL. Maurice Lachman and Laurence S. Lachman, New York, N. Y., assignors to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Feb. 26, 1921. Serial No. 447,967. 9 Claims. (Cl. 301—79.)



1. In a metal wheel, a spoke consisting of a bar T-shaped in cross-section and having the outer edges of the head and web tapered from the hub part toward the rim part of the spoke as and for the purpose described.

1,398,559. CIGAR AND CIGARETTE HOLDER. Gust Lampessis, Milwaukee, Wis. Filed Feb. 1, 1921. Serial No. 441,542. 5 Claims. (Cl. 131—51.)



5. A cigar or cigarette holder comprising a housing provided with an opening, a lining positioned within said

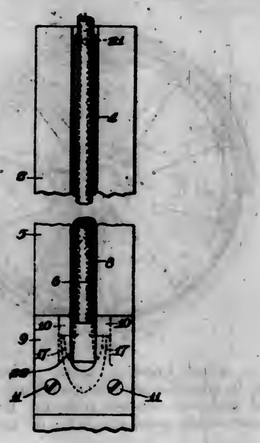
housing and provided with an opening adapted to register with the opening in said housing, means adapted to close the opening in the housing, a mouthpiece for one end of the housing, and means positioned within the opposite end of the housing to regulate the draft therethrough.

1,398,560. ARTIFICIAL TOOTH. GEORGE HUGH BEATTIE LOCKETT, Gisborne, New Zealand. Filed Mar. 5, 1921. Serial No. 449,647. 2 Claims. (Cl. 32—9.)



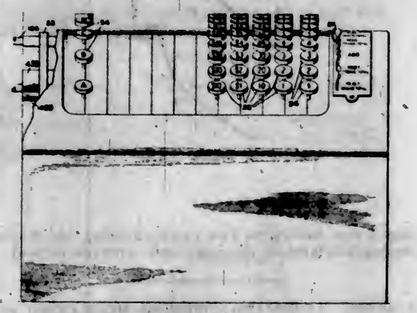
1. An artificial tooth comprising a body portion, a recess formed on the back of said body portion, pins within said recess, secured to said body portion and a cap adapted to fit into said recess over said pins and protrude from said body portion substantially as and for the purposes set forth.

1,398,561. SASH-CORD FASTENER. LOFTUS LOWNDES, Dublin, Ireland. Filed Nov. 4, 1919. Serial No. 335,734. 7 Claims. (Cl. 16—16.)



4. In a device of the character described, a window sash having a cord-receiving groove therein, a permanent fitting comprising a plate member secured to one side of the sash opposite to the base of the groove therein and below the top thereof and having two spaced parts projecting inwardly therefrom toward the base of said groove and above the lower end thereof, said parts having substantially horizontal bottom faces connected to downwardly and outwardly inclined faces, and a removable fitting comprising an arm extending between said parts and through said groove from the permanent fitting to a point near the top of the sash and two parts projecting from opposite sides of the lower portion of the arm beneath and engaging the horizontal faces of the said parts of the permanent fitting and preventing the withdrawal of the arm from the groove, said removable fitting having a cord attached to the lower portion thereof and being removable from the sash when the said parts of the removable fitting are lowered and moved from beneath the said parts of the permanent fitting by turning the removable fitting longitudinally, and said inclined faces of the permanent fitting engaging the said parts of the removable fitting and holding it back in said groove.

1,398,562. RAILROAD-TICKET-ISSUING MACHINE. HAAKON A. MARTIN, Christiania, Norway, assignor to The National Cash Register Company, Dayton, Ohio. Original application filed Feb. 6, 1915, Serial No. 6,490. Divided and this application filed Sept. 24, 1918. Serial No. 255,494. 48 Claims. (Cl. 235—3.)



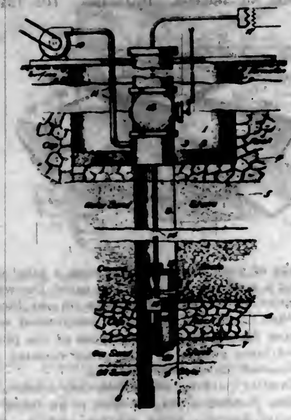
1. In a machine of the class described, the combination of an insertible destination device, adapted to print on one style of ticket and employed only when a ticket of that style is to be issued, adjustable printing means for printing on another style of ticket and a record strip and controlled by the destination device when the latter is used to print tickets of the one style, an accounting device, controlled by said destination device when the latter is employed, and manipulative means for controlling said adjustable printing means and said accounting device when said printing means is employed to print on the second mentioned style of ticket.

8. In a machine of the class described, the combination of an accounting mechanism, printing means, manipulative means, insertible destination devices, and operating means for the accounting and printing mechanisms so constructed that the manipulative means or a destination device are effective singly and each to the exclusion of the other to control the accounting and printing mechanisms upon each operation of the operating mechanism.

37. In a machine of the class described, the combination of a printing mechanism and a register, separate driving means therefor, common operating mechanism for the two driving means, comprising two normally ineffective clutch mechanisms one for each driving means, keys controlling the rendering of the clutch for the driving means of the printing mechanism effective, and means for automatically releasing the other clutch mechanism during the operation of the printing mechanism.

1,398,563. METHOD OF SEALING THE WALLS OF DEEP WELLS. WILLIAM E. NOLAN, Tulsa, Okla. Filed Apr. 28, 1920. Serial No. 377,326. 6 Claims. (Cl. 166—21.)

1. The method of lining the walls of the bores of deep wells, which walls are of crumbly nature, which consists in spreading a lining material over the walls, while such material is subjected to the action of heat,



and withdrawing the heat while the lining material hardens.

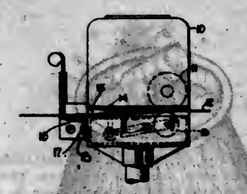
1,398,564. FRICTION-CLUTCH AND THE LIKE. PER ERIK NORDQVIST, Dufbo, Sundbyberg, Sweden. Filed Apr. 15, 1920. Serial No. 374,155. 1 Claim. (Cl. 192—75.)



In a clutch, an inner clutch element composed of a plurality of relatively movable parts, an outer clutch member engageable by the parts of the inner clutch element and constituting a dust-proof casing for the protection of said inner clutch member, pairs of links interposed between the parts of the inner clutch element and swivelly connected therewith, levers pivotally mounted between the parts of the inner clutch element and having certain extremeties thereof engaged between the links of the pairs whereby to move the latter into substantial alinement and effect separation and expansion of the inner clutch element parts, and actuating rods extending between the parts of the inner clutch element and connected with the levers for actuating the latter.

1,398,565. CLOTHOMETER-GAGE. JOHANNES TH. PEDERSEN, Flushing, N. Y., assignor, by mesne assignments, to The Measuregraph Company, a Corporation of Missouri. Filed Dec. 9, 1919. Serial No. 343,636. 5 Claims. (Cl. 33—130.)

1. A housing for a measuring machine, having a guide slot through which the cloth is pulled when measuring the same, in combination with a ledge adjacent the slot, and projecting from the rear side of the housing, and



means carried on the ledge and removed from the side of the housing for marking the edge of the fabric.

1,398,566. TIRE-MOUNTING. LOUIS JAY PERKINS, Lewiston, Idaho. Filed Nov. 28, 1919. Serial No. 341,118. 1 Claim. (Cl. 152—21.)



In combination, a wheel including a felly and a removable rim for the tires of vehicle wheels having tire casings, comprising a base section arranged on said felly and including an inclined portion adapted to seat the tire casing, and a flat portion, a tire-retaining flange integral with the inclined portion of the base section, a tire retaining ring slidably mounted on the flat portion of the base section and adapted to engage the tire casing, and means for maintaining said ring in operative position on said flat portion comprising a series of clamping plates having offset ends fulcrumed on the felly of the wheel and engaged with the retaining ring, and nuts and bolts carried by the felly and urging said clamping plates into operative engagement with said retaining rings.

1,398,567. MOP. GEORGE L. PERKINS, Chicago, Ill., assignor to O-So-Esy Products Company, a Corporation of Illinois. Filed May 16, 1918. Serial No. 234,842. Renewed Apr. 27, 1921. Serial No. 464,907. 1 Claim. (Cl. 15—13.)

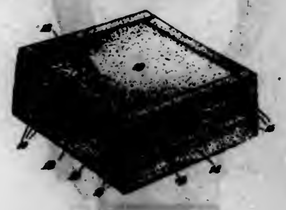
In a device of the character described, the combination of a circular mop head of sheet metal comprising a carrier plate provided with an upstanding portion extending therearound, said portion being integral with

said plate, and a depending flange integrally connected with the upper edge of said upstanding portion and a



mop extending around said portion and clamped between it and said flange.

1,398,568. METHOD OF PACKING AND PRESERVING PLUG-TOBACCO. JONATHAN PETERSON, Brooklyn, N. Y., assignor to Combination Machine Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 11, 1921. Serial No. 460,601. 17 Claims. (Cl. 131—11.)

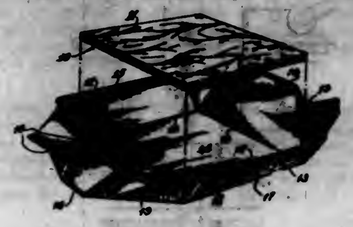


1. A package of plug tobacco comprising a plurality of layers of tobacco plugs or cakes alternating with a plurality of layers of wrappers therefor; the wrappers being provided with marginal portions forming laps overlying the sides of the plugs, the whole being compressed into a substantially solid block forming a laminated package.

9. A package of plug tobacco comprising a plurality of nested dish shaped wrappers or containers alternating with a plurality of layers of tobacco plugs or cakes, each wrapper being provided with a coating of paraffin or wax on the outer walls thereof, each wrapper adheringly inclosing a tobacco plug; a plug and its wrapper forming a detachable unit, a separating sheet between a plug of one unit and a wrapper of the next adjacent unit; said walls or laps of the wrapper being arranged in relative overlapping relationship, the joints between the overlapping wrapper walls being wax welded, the whole forming a laminated package.

16. The method of packing and preserving plug tobacco, which consists in assembling a plurality of pre-formed dish shaped wrapper sheets in nested relation and alternating with a plurality of layers of tobacco plugs or cakes, each wrapper sheet containing a plug; a plug and its wrapper forming a unit, in then folding and compacting the marginal laps of the wrapper in compacted and overlying relation on the side walls of the plugs, the marginal laps of adjacent wrappers being arranged in overlapping relationship, the joints between the laps being welded, whereby a sealed laminated plug package is provided.

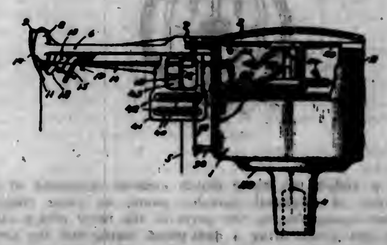
1,398,569. METHOD OF PACKING AND PRESERVING PLUG-TOBACCO. JONATHAN PETERSON, Brooklyn, N. Y., assignor to Combination Machine Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 11, 1921. Serial No. 460,602. 10 Claims. (Cl. 131—11.)



2. A package of plug tobacco comprising a plug or cake of tobacco and a wrapper inclosing the same, the wrapper having an impervious coating of paraffin on one face only and being folded about the plug and compressed so that interior wrapper faces adhere to the faces of the plug and opposed coated faces adhere to each other forming a substantially air-sealed closure for the plug.

9. The method of packing and preserving tobacco plugs which comprises packing a plug or cake in an inner wrapper having an impervious outer coating such as wax or paraffin, enveloping the said plug and wrapper in an outer wrapper having a similar impervious inner coating, the impervious wrapper coatings being face to face, in then compressing the plug and wrappers into a compacted unit in such manner that the interior faces of the inner wrapper adheringly envelop the faces of the plug, and the opposed impervious wrapper coatings cohering to provide an hermetically sealed package.

1,398,570. ATTACHMENT FOR KNITTING-MACHINES. WILBUR C. POTTER and EDWARD H. STINES, New Brunswick, N. J. Filed June 29, 1918. Serial No. 242,528. 6 Claims. (Cl. 66—7.)

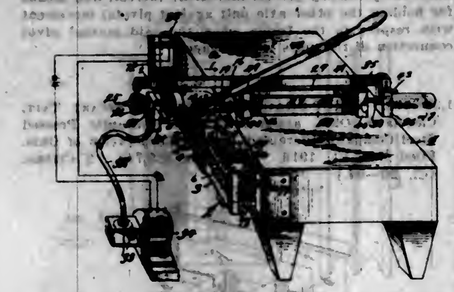


1. The combination of a casing for the step mechanism of a knitting machine, a plurality of arms mounted on the casing, a rock-shaft on each arm projecting to the inside of said casing, arms on the rock-shafts inside the casing projecting alternately in opposite directions, and tension devices for said shafts to hold them yieldably in the required position, said devices comprising a set of springs for engaging the arms on the rock-shafts extending in one direction around the casing, and a second set of springs for engaging the arms on the rock-shafts extending in the opposite direction around the casing.

1,398,571. MEAT-CUTTING MACHINE. JOHN B. REICH, Gary, Ind., assignor of one-half to John A. Baumgartner, South Bend, Ind. Filed May 28, 1921. Serial No. 473,284. 13 Claims. (Cl. 17—24.)

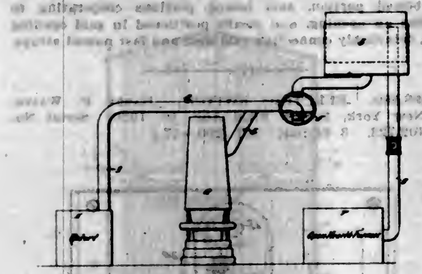
1. A meat severing machine comprising a base, a frame horizontally movable on said base, said frame having one

of its ends pivotally mounted, a reciprocating element carried by said frame, means carried by the frame for



reciprocating said reciprocating element and means for controlling the reciprocation of the reciprocating element by a movement of the frame.

1,398,572. PROCESS OF AND MATERIAL FOR REDUCING ORE AND MAKING GAS. JAMES HENRY REID, Rondebero, Vt., assignor to Thomas I. Hogan, Boston, Mass. Filed July 16, 1920. Serial No. 396,762. 10 Claims. (Cl. 75—14.)



1. The process which comprises retorting a mixture of ore with cokable carbonaceous material and material capable of acting as a fluxing agent and of activating the evolution of gas, thereby to produce a coked aggregate without material conversion or alteration of the said agent, and smelting the said aggregate.

1,398,573. SASH-FASTENER. WILLIAM REINL, Secaucus, N. J. Filed May 25, 1921. Serial No. 472,485. 7 Claims. (Cl. 292—74.)



1. A sash fastener including a rack, and a spring pressed bolt having a face to coact with the rack and provided with a runner projecting from said face to ride over the rack.

1,398,574. TIRE. GUSTAVE RICE, Omaha, Nebr. Filed Mar. 15, 1920. Serial No. 365,179. 1 Claim. (Cl. 152—4.)



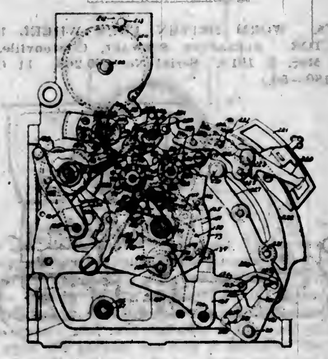
The combination with a wheel rim having spaced flanges of a tire body carried by said rim, said tire body comprising a pair of annular pliable members of equal diameter and disposed adjacent each other and between the spaced flanges of the rim, an annular pliable member surrounding the pair of pliable members and disposed equally spaced from the peripheries of the pair of pliable members, said pliable members being round in cross section, and a continuous lacing extending around the pliable members and binding them together, said lacing forming means for preventing circumferential creeping of the annular members in relation to each other.

1,398,575. TRACTOR-COUPLING FOR SUGAR-CARTS. HORACE F. RUGGLES, West Englewood, N. J. Filed Mar. 28, 1918. Serial No. 225,165. 4 Claims. (Cl. 213—67.)



1. The combination with a drawn unit having a tongue, of a drawing member, a draft coupling between said tongue and member comprising a socket piece and projection on the tongue and member respectively, said projection and socket piece being movable into and out of engaging relation and taking the draft pull between said tongue and member when in engaging relation, and a winch and cable for drawing the projection into the socket.

1,398,576. CASH-REGISTER. BERNIS M. SHIPLEY, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio. Filed Dec. 19, 1919. Serial No. 346,183. 11 Claims. (Cl. 235—2.)

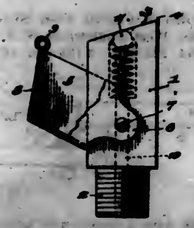


1. In a machine of the class described, the combination of three totalisers, actuating means for one totaliser,

actuating means common to the other two totalisers and operated by the first mentioned means, an auxiliary actuator for one of the last two totalisers and operated by the last mentioned means for adding upon said totaliser an amount different from the amount determined by said last mentioned means, and means for moving the other of the last two totalisers out of operative relation with any of the actuators.

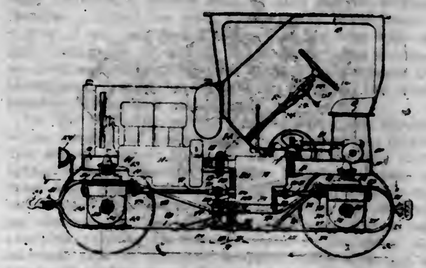
5. In a machine of the class described, the combination of two totalisers, normally positioned for simultaneous actuation, actuating means common thereto, and auxiliary actuator interposed between one of said totalisers and said actuating means for causing said totalisers to have added thereupon unlike amounts from the single amount upon said actuating means, a third totaliser, means for disabling one of the first two totalisers and engaging the third totaliser with the actuating means so that like amounts may be added upon said third totaliser and the totaliser of the first two which was not disabled.

1,398,577. DUST-CAP FOR LUBRICATING CUPS OR NIPPLES. Bernard H. Skelly, Bridgeport, Conn. Filed Sept. 24, 1920. Serial No. 412,467. 2 Claims. (Cl. 184—90.)



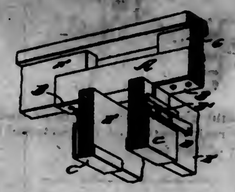
2. An oil cup of rectangular section threaded on its lower end and having its upper face upwardly and forwardly beveled with an oil duct opening therethrough, a seat in said duct slightly inset from said beveled face, a ball check valve engaged on said seat and lying substantially flush with the face, a dust cap conforming to the cup as to its back, side and top faces and open at its front whereby the cap may swing backwardly from off the cup, the sides of the cap having depending ears, means for pivotally connecting the ears to the sides of the cup, and a rolled lip depending from the front edge of the top wall of the cap for engaging over the forward, acute angular edge of the cup.

1,398,578. WORM-DRIVEN FOUR-WHEEL-DRIVE TRACTOR. Alexander Stewart, Clintonville, Wis. Filed Mar. 3, 1919. Serial No. 280,268. 11 Claims. (Cl. 180—50.)



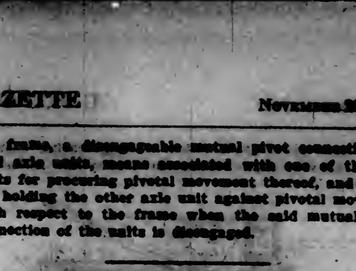
1. A vehicle of the class described including a frame, front and rear axle units each pivotally connected with the frame, a disengagable mutual pivot connection for said axle units, means associated with one of the axle units for procuring pivotal movement thereof, and means for holding the other axle unit against pivotal movement with respect to the frame when the said mutual pivot connection of the units is disengaged.

1,398,579. JOIST-BRACKET. William Stuart Tait, Cleveland, Ohio, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 21, 1919. Serial No. 339,746. 2 Claims. (Cl. 20—94.)



1. In a device of the kind described, the combination with a joist receiving member, of straps depending therefrom and having each a bowed portion, and straps adapted to engage the under side of stringers and having each a bowed portion, said bowed portions coöperating to define an opening, and means positioned in said opening for detachably connecting said first and last named straps.

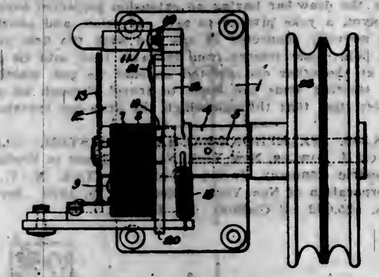
1,398,580. ELECTRIC SWITCH. Harry F. Waite, New York, N. Y. Filed Aug. 10, 1920. Serial No. 402,723. 3 Claims. (Cl. 200—17.)



1. A switch with two sets of jaws and blades and means for mounting the blades to engage either set of jaws or neither set, but not both at once, a handle by means of which said blades may be shifted and slotted, oscillating means for limiting the throw of the handle so that the blades may be made to engage one set of jaws or no jaws while the limiting means is in one position and the other set of jaws or no jaws when the limiting means is in a second position.

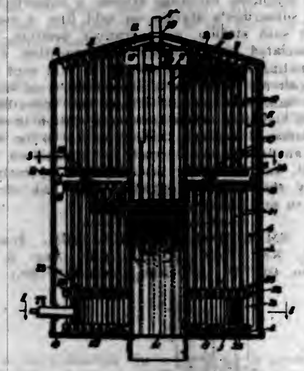
1,398,581. WEB FEEDING AND CUTTING APPARATUS. Alfred B. Walne, Whitman, Mass., assignor to Lorenz Muther, Newton, Mass. Substitute for application Serial No. 165,119, filed Apr. 28, 1917. This application filed Apr. 28, 1920. Serial No. 377,416. 23 Claims. (Cl. 164—42.)

1. In a device of the character described in combination, a support, a pair of web-grippers, one of said grippers being yieldable to permit feeding of the web, and a web-feeder having a segmental feeding surface arranged



to feed the web and to hold said yieldable gripper in an open position so long as said segmental feeding surface is in engagement with said web.

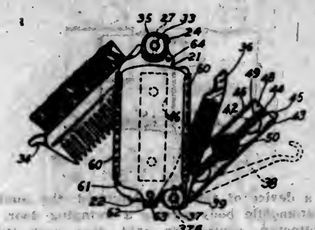
1,398,582. STEAM-GENERATOR. Joseph T. Blakeman, Richland Center, Wis. Filed Apr. 10, 1920. Serial No. 372,915. 8 Claims. (Cl. 122—323.)



1. A steam generator of the character described, comprising an outer casing, a plurality of water containing sections located therein and all subjected directly to the heat produced in the casing, two of said sections arranged one above the other and surrounding a third section, each of said sections having a steam chamber, the steam chambers of upper and lower sections opening into the steam chamber of said third section, with the steam chamber of the lower section opening into the steam chamber of the third section below the upper section, and an outlet pipe for the steam produced by the generator opening into the steam chamber of said third section.

1,398,583. FOLDING COMBINATION TOILET ARTICLE. Ransom Y. Boyer, Maywood, Ill. Filed Jan. 17, 1921. Serial No. 437,890. 10 Claims. (Cl. 132—79.)

6. A folding toilet article embodying a casing formed of sheet material shaped to form spaced side walls, a plurality of members projecting between the said walls, a pivot pin extending through the walls and through one end of each of the said members for pivotally securing the members to the casing to be folded into and out of the casing, each of the casing walls and the end of the adjacent member being provided, adjacent the pivot of the member, one with a projection and the other with a recess for receiving the said projection, and a



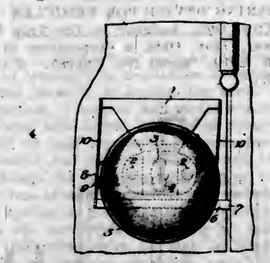
spring washer element encompassing the pivot pin and operating on the member for yieldingly holding the said projection seated in the recess.

1,398,584. BOX FOR POURING STEEL INGOTS. William D. Bradford, Sewickley, Pa. Filed Dec. 13, 1920. Serial No. 430,860. 2 Claims. (Cl. 22—79.)



1. A closed box for pouring steel into ingot molds having spaced nossles, an intermediate steel receiving fountain carried by and opening into the box, and covered means within the box for conducting molten steel from the fountain and within the box to the respective nozzles.

1,398,585. ALARM. James M. Butcher, Chicago, Ill., assignor to Sentinel Alarm Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 16, 1920. Serial No. 358,848. 4 Claims. (Cl. 116—162.)



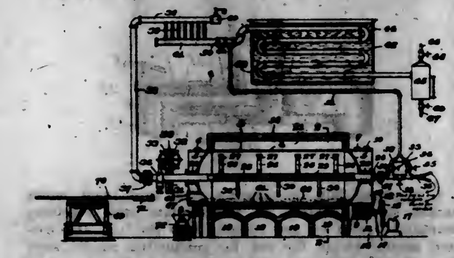
1. In an alarm device, a plunger having an alarm-arresting position and an alarm-releasing position, and a control device movable into the path of the plunger to hold the plunger in the alarm-releasing position; said plunger having a shoulder through which it engages the control device; and said shoulder being resiliently supported upon the plunger whereby it yields to the control device when the plunger is in alarm-arresting position and returns to engagement with the control device when the plunger is in alarm-releasing position.

1,398,566. COMBINED DOOR-JOINT PROTECTOR AND NAME-PLATE FOR AUTOMOBILES. PATRICK CURRY, Chicago, Ill. Filed Sept. 12, 1921. Serial No. 499,997. 4 Claims. (Cl. 296—44.)



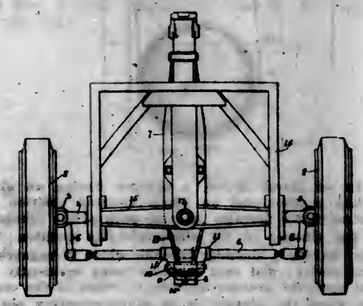
1. In a device of the class described, the combination of an automobile body having a swinging door, a door joint protector, secured to said door near its upper swinging end, and adapted when the door is closed, to bridge the joint between the door and body and overlap a substantial portion of the body near the door opening, said protector having a downwardly extending portion co-extensive therewith on the outside of the door and means for rigidly securing said protector to said swinging door, substantially as and for the purposes described.

1,398,587. OIL-DISTILLING APPARATUS. DANIEL A. DEAN, Enid, Okla. Filed Apr. 11, 1919. Serial No. 289,198. 8 Claims. (Cl. 196—3.)



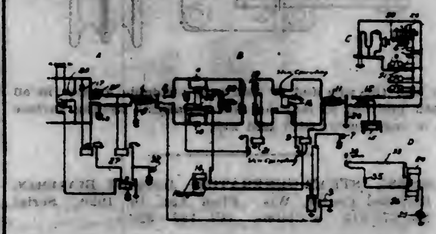
1. In an oil distilling apparatus the combination of a revoluble retort, supporting means therefor, means operative to rotate the retort, means to heat the retort, and a quantity of loose elements within the retort and having abrading edges and being free to move in all directions, whereby when the retort is rotated said elements will be actuated therein for the purpose set forth.

1,398,588. STEERING DEVICE FOR VEHICLES. JOHN F. ECCARD, Troy, Ohio, assignor to The Troy Wagon Works Company, Troy, Ohio, a Corporation of Ohio. Filed Aug. 27, 1919. Serial No. 320,087. 3 Claims. (Cl. 280—335.)



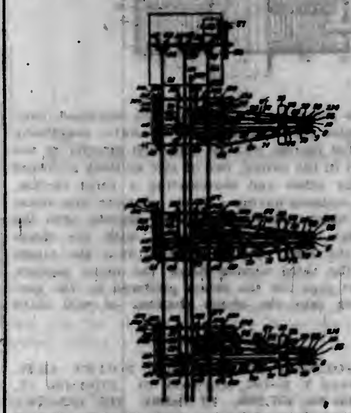
1. In a trailer, the combination, with a spring-supported frame and a draw-bar pivoted thereto, of a fixed axle, steering knuckles pivoted to said axle, wheels rotatably connected to said knuckles, steering arms connected to said knuckles and a tie rod connecting said arms, the draw-bar having an extension projected beyond its pivot, a yoke pivoted to said extension, and another yoke swivelly connected at one end with the first yoke at a point more remote from the axle than said tie rod and at the other end pivoted on said tie rod, whereby said steering arms are made to travel through an arc greater than that through which the draw-bar travels.

1,398,589. TELEPHONE-EXCHANGE SYSTEM. CLARENCE B. ROWLES, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 19, 1920. Serial No. 425,682. 3 Claims. (Cl. 179—41.)



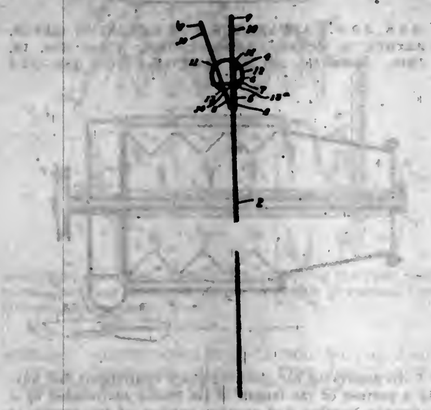
1. In a telephone exchange system, a subscriber's line circuit, a subscriber's station on said line, a source of current at said station, an operator's position, a cord circuit associated with said operator's position, a supervisory signaling device associated with said cord circuit, a link circuit for extending a connection from said cord circuit to said line circuit, means for operating said supervisory signaling device from said station in response to the source of current thereat so as to be steadily operated, an interrupter circuit for connection to the link circuit, and means for intermittently operating said supervisory signaling device when said link circuit is connected to said interrupter circuit.

1,398,590. EMBROIDERING MECHANISM. JOSEPH A. GROEBLI, New York, N. Y. Filed Aug. 6, 1920. Serial No. 401,708. 9 Claims. (Cl. 112—90.)



1. In embroidering mechanism, the combination, with a plurality of embroidering machines, each embodying fabric carrying, shifting and tensioning means, of common means for controlling the operation of the shifting and tensioning means to shift and tension the fabric on the carrying means of each and optionally of a plurality of the several embroidering machines.

1,398,591. MEMORANDUM-FILE. GEORGE H. HORNBERN, Minneapolis, Minn., assignor of three-fifths to J. D. Brown, Minneapolis, Minn. Filed Mar. 27, 1920. Serial No. 369,172. 5 Claims. (Cl. 129—35.)



1. In combination, with a memorandum-backing plate, a paper clip mounted thereon comprising jaws and a spring normally holding them together and having both jaws on the same side of said plate, one end of the clip spring engaging the face of the plate on the opposite side thereof from said jaws.

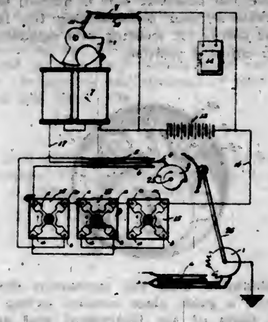
1,398,592. MEMORANDUM-FILE. GEORGE H. HORNBERN, Minneapolis, Minn., assignor of three-fifths to James D. Brown, Minneapolis, Minn. Filed Feb. 14, 1921. Serial No. 444,776. 5 Claims. (Cl. 24—66.)



1. A memorandum file comprising a plate having an opening therein to receive one end of the spring of a memorandum clip to bear on the rear side of the plate, and a jaw having an end to enter an opening in the other end of the spring and be held by the tension thereof against the front of the plate.

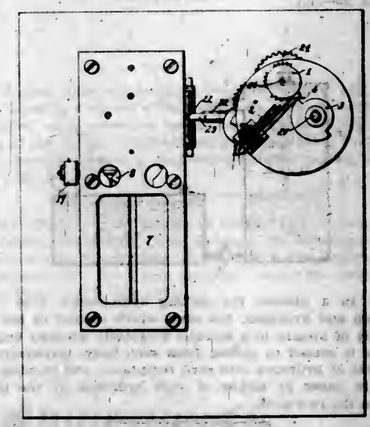
1,398,593. ALARM SYSTEM. RICHARD M. HOPKINS, Rutherford, N. J., assignor to American District Telegraph Company, Jersey City, N. J., a Corporation of New Jersey. Filed Mar. 29, 1920. Serial No. 369,584. 5 Claims. (Cl. 177—369.)

2. An alarm system comprising in combination a magnet-operated controlling means including means arranged to provide a predetermined interval of no-signal transmission following actuation of the controlling magnet in a sense to cause operation of the transmitter, a plurality of controlling switches connected in series with said magnet and so arranged that operation of one of said switches changes the magnetic condition of said magnet in a sense to initiate said predetermined interval of no-signal transmission and that operation of one of said switches during said interval of no-signal transmission changes the magnetic condition of said magnet in a sense to prevent transmission of the signal, and circuit transposing means operated by the transmitter in the event of said transmission-operation of said transmitter, and arranged by its operation to condition the transmitter



for further operation in the event of subsequent operation of one of said controlling switches.

1,398,594. TRANSMITTER. RICHARD M. HOPKINS, Rutherford, N. J., assignor to American District Telegraph Company, Jersey City, N. J., a Corporation of New Jersey. Filed Mar. 29, 1920. Serial No. 369,585. 3 Claims. (Cl. 177—369.)



3. In a transmitter such as described, the combination of transmitting mechanism comprising driving means tending normally to operate the same, a detent for said mechanism, a magnet and means controlled thereby for releasing said detent, and circuit transposing means operated by said transmitting mechanism upon its initial movement and operatively connected to said magnet to so change the magnetic condition of said magnet, upon operation of said transmitting mechanism, that the detent may operate to bring the transmitting mechanism to rest upon the conclusion of a cycle of operations, and that the transmitter may be then in condition for further operation, without resetting, upon further change of magnetic condition of said magnet.

1,398,595. MEANS FOR CALIBRATING AMMETERS. ADRIAN H. HOYT, Penacook, N. H.; Wallace C. Hoyt administrator of said Adrian H. Hoyt, deceased. Filed June 7, 1920. Serial No. 387,075. 6 Claims. (Cl. 171—95.)

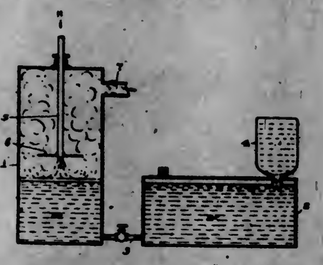
2. In an instrument of the class described, means for calibrating the instrument, comprising a pointer, a mag-

netising coil controlling the pointer, a slotted back plate, means extending through the slotted portion of said plate to which the magnetic coil is affixed, said means being adjustable without disassembling the instrument, and fastening means for securing said magnetic supporting means in adjusted position.



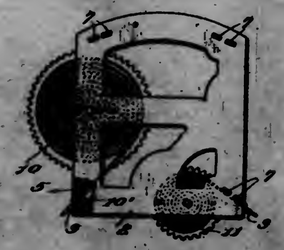
3. In combination with the mechanism described in claim 2, posts, a guide plate member having arms engaging said posts of the instrument and adapted to facilitate adjustment of the magnetized coil, substantially as described.

1,398,596. METHOD OF MAKING HYDROBROMIC ACID AND APPARATUS THEREFOR. COULTER W. JONES, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Aug. 31, 1918. Serial No. 252,191. 13 Claims. (Cl. 23—1.)



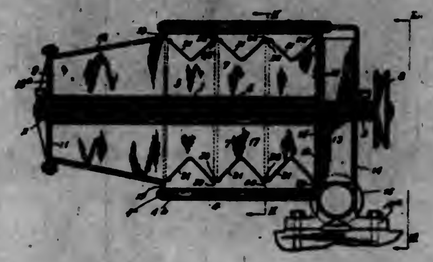
13. In a process for making hydrobromic acid from bromin and hydrogen, the steps which consist in heating a body of bromin in a suitable receptacle whereby bromin vapor is caused to ascend from such body, introducing a current of hydrogen into such receptacle, and burning the bromin vapor by means of such hydrogen at the place where the two meet.

1,398,597. CLOCK-FRAME. PAUL LUX, Waterbury, Conn., assignor to Lux Clock Manufacturing Company, Inc., Waterbury, Conn., a Corporation of Connecticut. Filed Aug. 25, 1921. Serial No. 496,284. 3 Claims. (Cl. 58—52.)



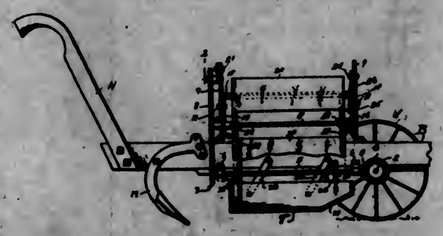
1. A clock frame formed of front and back frames, flat pillars carried by the front frame having spaced lugs at their ends, the back frame being provided with spaced openings to receive said lugs, said lugs being adapted to be spread apart for fastening the back frame thereto.

1,398,598. APPARATUS FOR CLEANING GASES. ARTHUR G. MCKEE, Cleveland, Ohio. Filed Mar. 19, 1919. Serial No. 283,547. 14 Claims. (Cl. 183—37.)



1. In apparatus for cleaning gas a centrifugal fan having a portion of the length of its blades surrounded by a stationary housing and another portion of the length of its blades provided with a serrated shell secured to the fan for rotation therewith and having openings through its serrations.

1,398,599. BOLL-WEEVIL ERADICATOR. GEORGE W. MOSLEY, Waynesboro, Ga. Filed May 20, 1921. Serial No. 471,042. 1 Claim. (Cl. 43—142.)



A machine of the class described comprising a portable body, a brushing medium carried thereby, a trough positioned below the body, flexible members connecting the trough and body, and links pivotally connecting the trough and body.

1,398,600. LEATHER-PRESERVER. HOWARD ANGELO MUTES, Mobile, Ala. Filed May 25, 1920. Serial No. 384,167. 2 Claims. (Cl. 134—9.)

1. A composition of the character described comprising a mixture of castor oil, paraffin, Venetian turpentine, and oil of cinnamon.

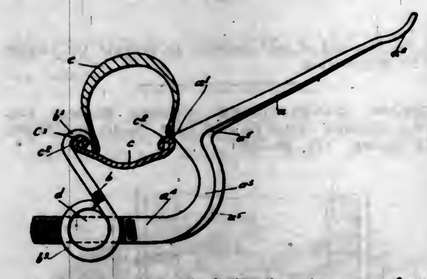
1,398,601. ADJUSTABLE READING-RACK. IVAN L. OSTERHOUT, Colfax, Wash. Filed May 28, 1920. Serial No. 385,019. 4 Claims. (Cl. 45—82.)

1. In an adjustable reading rack, the combination of a bracket releasably attached to an article of furniture, a tube mounted on the bracket, a second L-shaped tube telescopically mounted and radially swingable in the first named tube, said tubes having channels of suitable size for the threading of an electric light cord therethrough, means for securing the second tube in adjusted positions, longitudinally extensible means attached to the second tube for supporting a book rack, said means including means for extensibly supporting an electric light cord, a



book rack, and means adjustably connecting the book rack to the aforesaid extensible means to permit of vertical and tiltable adjustment.

1,398,602. ADJUSTABLE TIRE-LEVER. WILLIAM JOHN OWENS, Chippenham, England. Filed June 1, 1920. Serial No. 385,754. 2 Claims. (Cl. 157—6.)



1. Apparatus for manipulating the outer covers of pneumatic tires, comprising a manipulating lever, a projection on said lever intermediate its ends adapted to engage one edge of the tire, an externally threaded forwardly projecting portion on said lever, a link of substantially S-shape adapted to embrace the opposite edge of the wheel rim, a cylindrical member rotatably mounted in the lower end of said link and formed with a screwed hole to receive the externally screwed forwardly projecting portion of the lever, for the purposes described.

1,398,603. VEHICLE-TIRE FASTENER. WILLIAM H. PARHAM, Knoxville, Tenn., assignor to Parham Auto Patents Corporation, Knoxville, Tenn., a Corporation of Delaware. Filed July 27, 1920. Serial No. 399,382. 5 Claims. (Cl. 152—6.)



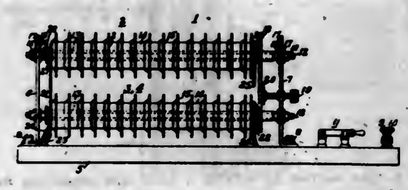
1. In a tire fastener, the combination with a channel rim provided with annular grooves in its vertical legs, one leg being provided with a series of openings and the other with a series of notches in transverse alinement with said openings, of a resilient tire arranged within said rim having transversely arranged bores in transverse alinement with said openings and notches and fastening devices slidably mounted in said bores having their ends normally held within the notches and openings of said rim by the resiliency of said tire.

1,398,604. RIM-NUT. MAXIMILIAN CHARLES SCHWEINERT, West Hoboken, N. J. Filed Oct. 31, 1919. Serial No. 334,802. 5 Claims. (Cl. 85—32.)



5. A sheet metal nut having a body portion with top and sides, forming a recess within the sides, and an outward extension, said extension being internally threaded, the metal of the top surrounding said extension being pressed partly inward to form a continuous annular bearing seat within the recess.

1,398,605. COMPRESSION-RHEOSTAT. THOMAS SPOONER, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed May 14, 1920. Serial No. 381,469. 10 Claims. (Cl. 219—51.)

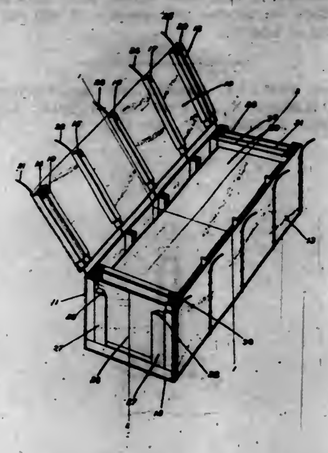


1. In a compression rheostat, the combination with a self-sustaining resistor, of a radiating plate that only partially surrounds said resistor.

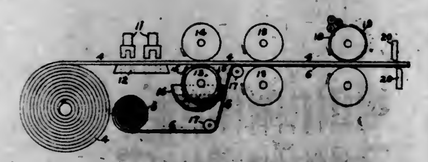
1,398,606. WIRE-BOUND BOX. EDWARD A. SKILL, Chicago, Ill. Filed Sept. 1, 1917. Serial No. 189,285. 19 Claims. (Cl. 217—12.)

1. A wirebound double-walled box comprising outer side and end walls composing the exterior of the box; inner side and end walls forming an interior inclosure;

cleat frames relatively positioning said several walls, certain of said cleat frames mutually reinforcing the outer and inner side walls; and bindings secured to and around the box.



1,398,607. COIN-CARD AND METHOD OF MAKING THE SAME. HERBERT H. STEELE, Brooklyn, N. Y., assignor, by mesne assignments, to John H. Eggers Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 12, 1916. Serial No. 90,795. 5 Claims. (Cl. 93—1.)



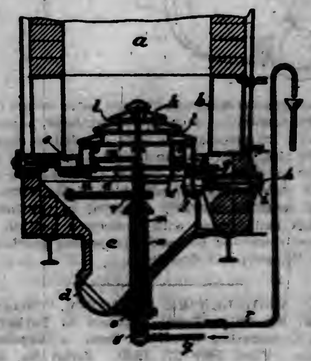
1. The method of making a coin card consisting first in forming one or more openings in the card, secondly in moistening the back of the card, and thirdly in applying to the moistened back under pressure, a strip of previously prepared dry adhesive material in such a manner as to bridge the coin opening or openings.

1,398,608. PRESSURE INDICATOR OR RECORDER. LEONARD GODFREY PINNEY THRING, Cambridge, England. Filed Mar. 28, 1921. Serial No. 456,133. 32 Claims. (Cl. 234—17.)

3. In a fluid pressure indicator, in combination, an elongated substantially straight elastic member, one end of which is supported and the other end of which is free and adapted to be subjected to pressure to strain the member in the direction of its length, and an indicating element mounted on a relatively fixed base and connected to the free end of said member, to indicate the amount of its deformation.



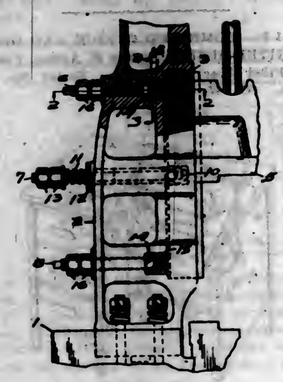
1,398,609. GAS-PRODUCER. FREDERIC THUMAN, London, England. Filed June 13, 1917. Serial No. 174,482. 2 Claims. (Cl. 48—66.)



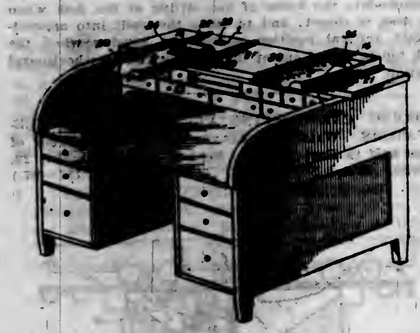
1. In a gas generator the combination of a rotary grate provided with an ash crusher and a twyer, closed water circulating passages arranged in series and provided in the grate in step wise arrangement and having a water inlet and a water outlet, water inlet and outlet mains, and water inlet and outlet pipes connected with the water inlet and outlet of the passages and carried by the grate and coupled with the mains co-axially of the grate, substantially as described.

1,398,610. GIB-ADJUSTER. MYRON E. TIBBELS, Fremont, Ohio. Filed July 12, 1920. Serial No. 395,796. 1 Claim. (Cl. 78—37.)

In a plunger machine having gibs for guiding the plunger member, a pair of bolts for pressing against the gibs to adjust the gibs relative to the plunger member, a pair of nuts coacting with the bolts, the frame having pockets in which the nuts and the inner ends of the bolts are located for ready removal of the nuts and the ends of the bolts when the same have been severed from the bolts.



1,398,611. PAPER RECEPTACLE OR TRAY. ALBERT T. VAN ALSTYN, Grand Rapids, Mich. Filed Aug. 23, 1918. Serial No. 251,048. 13 Claims. (Cl. 45—90.)

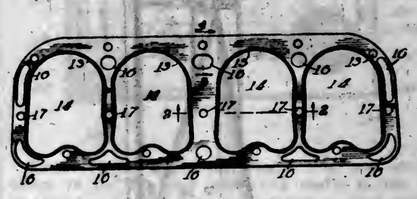


1. In a desk tray, a base portion adapted to be attached to the upper portion of a desk, a paper-receiving tray slidably mounted in said base portion, means to prevent said tray being inadvertently slid entirely out of said base portion, and said means comprising a recess in one of said parts and a finger on the other of said parts, said finger adapted to enter said recess when registering therewith.

2. In a device of the class described, a base portion adapted to be attached to the upper portion of a desk, a paper-receiving tray slidably mounted in said base portion, said base portion being adjustable whereby to accommodate desks of different dimensions.

6. In a desk tray a body portion having side walls, outwardly extending flanges on said side walls, a bottom portion having its edges bent up over said flanges, and a base portion having its longitudinal edges bent upwardly and inwardly whereby to form opposed guideways to slidably receive certain of said bent over edges of said bottom portion.

1,398,612. GASKET. JOSEPH B. VICTOR, Chicago, Ill., assignor to Victor Manufacturing & Gasket Co., Chicago, Ill., a Corporation of Illinois. Filed Apr. 15, 1918. Serial No. 228,612. 3 Claims. (Cl. 288—1.)



1. A gasket for use between the cylinder block and head of a gas engine having water spaces comprising two sheets of thin copper of relatively large area and a flat, thin filler sheet comprised of cork and a binder interposed between said copper sheets and having its edges exposed at the water openings.

1,398,613. PLASTIC COMPOSITION AND METHOD FOR MAKING THE SAME. WILLIAM V. WATSON, San Diego, Calif., assignor of one-half to San Diego Consolidated Gas and Electric Company, San Diego, Calif., a Corporation of California. Filed Sept. 9, 1920. Serial No. 409,061. 6 Claims. (Cl. 106—32.)

5. A plastic composition, comprising refuse sponge from gas purifiers, fine particles of stone, and oil and water gas tar.

1,398,614. PLATE-WEB WHEEL. WILLIAM ERASTUS WILLIAMS, Chicago, Ill. Filed Dec. 15, 1919. Serial No. 344,865. 4 Claims. (Cl. 301—63.)

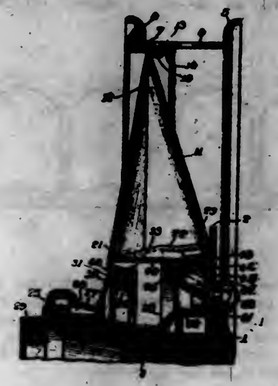


1. The combination with a cast hub, of a rolled wheel disk having a plain circumferential zone at some distance from the hub and in the medial plane of the wheel, the inner margin of said zone being braced by integral divergent ribs held in the hub metal, and a rim cast on the peripheral margin of the disk.

1,398,615. TENSION-PLATE WHEEL. WILLIAM ERASTUS WILLIAMS, Chicago, Ill. Filed Jan. 8, 1920. Serial No. 350,106. 13 Claims. (Cl. 301—63.)

1. The combination with a rim and a hub barrel of two disks secured to the rim and having their hub zones

forced laterally into and closely fitting the interior of the opposite ends of the hub, respectively, and cor-



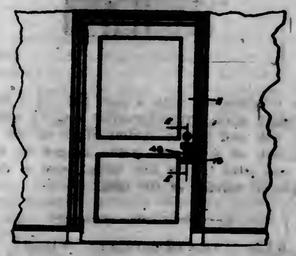
responding clamping rings pressed into and permanently fixed in the in-bent portions of the disks.

1,398,616. GAGGING APPLIANCE. WALTER REGINALD WILSON, Doncaster, England. Filed Oct. 5, 1920. Serial No. 414,850. 2 Claims. (Cl. 128—12.)



1. A device of the character referred to, comprising a member adapted to be inserted behind the upper lip, a member adapted to be inserted behind the teeth and gum of the lower jaw, a stem connecting said members so as to hold the mouth open and a laterally directed handle connected to the stem intermediate of its length so that a torque can be transmitted thereto at a point between the two members, the handle leaving the upper and lower part of the face free for the subsequent application thereto of an inhaler.

1,398,617. LOCK. JOHN L. YATES, New York, N. Y. Filed June 21, 1920. Serial No. 390,548. 7 Claims. (Cl. 70—14.)



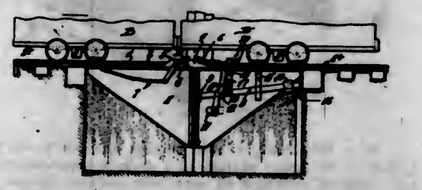
2. The herein described door lock comprising a casing, two independent slidable holding members within and projecting from the casing, a pair of coaxial finger pieces, one journaled in the casing and the other journaled within the first, and a pair of connecting members between the respective holding members and the aforesaid finger pieces.

1,398,618. COMBINED OFFICE AND DROPHEAD TYPEWRITER-DESK. GEORGE F. ALBRO, Los Angeles, Calif. Filed Mar. 18, 1920. Serial No. 366,973. 5 Claims. (Cl. 45—52.)



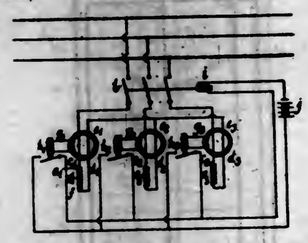
1. The combination with a housing, of a desk top and a shelf mounted and movable within the housing, and means connecting the shelf with the desk top and adapted to transmit motion from the desk top to the shelf to move the shelf into approximately horizontal position when the desk top is moved into approximately vertical position within the housing and at such a distance rearwardly from the front of the housing as to accommodate the knees of one sitting at the desk when the desk is closed; and to move the shelf into approximately vertical position within the housing when the desk top is moved out of the housing and into horizontal position.

1,398,619. CAR-STOPPING ATTACHMENT FOR ELEVATORS. WALTER S. ALLYN, Logan, Ill., assignor of one-half to Earl V. Akin, Benton, Ill. Filed Nov. 22, 1920. Serial No. 425,717. 5 Claims. (Cl. 187—97.)



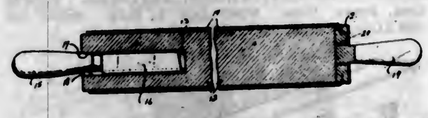
1. The combination of an elevator, a car movable on said elevator, a car btop carried by the elevator, a stop-displacing member carried by said elevator, an abutment adapted to be engaged by said stop-displacing member to cause operation thereof, trippable means whereby motion is transmitted from said stop-displacing member to said car stop so as to displace the stop from its operative position, and a car-actuated tripping member whereby said trippable means is displaced to restore said car stop, said abutment being engaged by said stop-displacing member when the elevator is positioned to receive the car, and said car-actuated tripping member being carried by the elevator so as to cooperate with said trippable means while the car is moving on the elevator.

1,398,620. PROTECTING DEVICE FOR MULTIPHASE ALTERNATING-CURRENT APPARATUS. JAMES ROBERT BEARD, Newcastle-upon-Tyne, England. Filed Oct. 9, 1917. Serial No. 195,633. 9 Claims. (Cl. 175—294.)



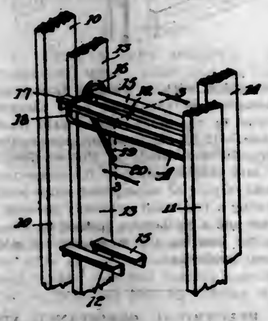
1. In a protective device for an alternating-current apparatus, the combination with an electro-responsive device, of a transformer having a secondary winding operatively connected to the electro-responsive device and two oppositely acting primary windings connected in series with the winding of the apparatus to be protected.

1,398,621. DOUGH-ROLL AND ROLLING-PIN. BERNARD L. BRADDICK, San Diego, Calif. Filed Feb. 4, 1920. Serial No. 356,165. Renewed Oct. 12, 1921. Serial No. 507,355. 2 Claims. (Cl. 107—50.)



1. A rolling pin body, a removable sheath of textile material, a handle at one end of the rolling pin and a handle at the opposite end, said handle being attached to a disk having a diameter as large as the diameter of the rolling pin, and a sleeve attached to the disk forming a cake cutter, said sheath coöperating with the body to provide a pocket, said sleeve engaging the body within the pocket.

1,398,622. EXTENSION-LADDER STOP. PETER BROMAN, Chicago, Ill., assignor to Brown Safety Ladder Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 7, 1920. Serial No. 356,965. 4 Claims. (Cl. 228—65.)



1. A hook for extension ladders comprising a member having an eyelet adapted to oscillate about a rung of one of said ladders, a hooked portion adapted to engage a rung of an adjoining ladder and a lug adapted to engage the first mentioned ladder so as to prevent relative movement of the two ladders in one direction.

1,398,623. AUTOMATIC ROAD-MAP. ELMER K. BROWN, Seattle, Wash. Filed Mar. 24, 1921. Serial No. 455,201. 1 Claim. (Cl. 40—86.)



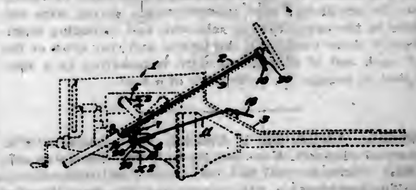
An automatic map comprising a box, web driving means in the box, web supporting shafts in the box, the sides of the box being formed with vertical parallel pairs of grooves, carriages supporting the said shafts and having laterally directed pins engageable in the vertical grooves for insertion of the carriages in the box, the sides of the box being formed with horizontal grooves communicating with the vertical grooves to receive the said pins and permit the longitudinal movement of the carriages and shafts toward and away from the driving means to contact the wound portions of the web with the driving means and cause winding and unwinding of the web.

1,398,624. UNDERGARMENT. ALGERNON E. CLARKE, Grand Rapids, Mich. Filed May 24, 1920. Serial No. 383,979. 1 Claim. (Cl. 2—144.)



A union garment having an oblong opening across the back from side to side of the garment, an elastic insert placed in said opening with the upper and lower edges of the insert and the upper and lower edges of the garment fabric abutting each other, a thin fabric belt stitched upon each side of the fabric and of the insert covering the abutting edges thereof, both above and below the opening and folds formed in the waist part of the garment at the belt line and tapered to terminate near the arm scyes of the garment.

1,398,625. HAND AND FOOT ACCELERATOR FOR CARBURETERS OF AUTOMOBILE ENGINES. WILLIAM E. CLOUGH, Redondo Beach, Calif. Filed June 21, 1919. Serial No. 307,209. 4 Claims. (Cl. 74—39.)



1. In a hand and foot accelerator, a throttle lever, a cable one end of which is attached to said throttle lever,

a foot lever for moving said cable to actuate the throttle lever, and the other end of said cable being attached to said foot lever, a lug mounted on said cable, a hand lever, and means on said hand lever to engage said lug to actuate the throttle lever.

1,398,626. NON-RESONANT PHONOGRAPH-CABINET. WILLIAM H. COLE, Newark, N. J. Filed May 6, 1920. Serial No. 379,242. 1 Claim. (Cl. 274—2.)



A phonograph cabinet composed externally of metal and internally of cement plaster upon which the metal is deposited and which is a unitary structure possessed of weight and solidity.

1,398,627. RESILIENT CUSHION FOR HEELS. JAMES M. COMBS, Akron, Ohio, assignor of one-half to V. R. Smithfield, Cleveland, Ohio. Filed Feb. 20, 1920. Serial No. 360,059. 1 Claim. (Cl. 36—36.)



A resilient cushion for shoe heels comprising a pad adapted to lie flat against the wearing face of a heel and having a relatively thin elastic wall extending upwardly from the peripheral edge thereof, and a spring wire embedded in the upper edge of said wall and extending longitudinally therethrough on the lateral and rear sides of the heel, each end of said spring wire terminating in a spur adapted to engage the breast face of a heel.

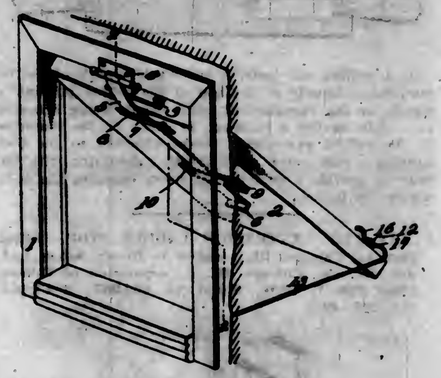
1,398,628. EMERGENCY VAULT AND SAFE LOCK. DAVID J. CONDON, Kenwood Park, Iowa. Filed Jan. 17, 1921. Serial No. 437,804. 5 Claims. (Cl. 109—8.)

1. The combination with a safe and the door therefor having locking mechanism including a combination lock and bolt work, of a pair of gravity locking arms carried by the door, a bridge member spanning said locking mechanism, a support for holding said locking arms mounted upon said bridge member and means for locking



said arms in horizontal position against the bolt-work when released by said support.

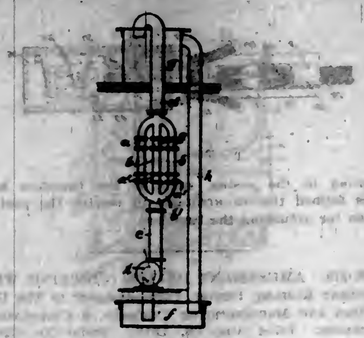
1,398,629. CASEMENT-WINDOW ADJUSTER. WALTER COX, Provo, Utah. Filed July 2, 1919. Serial No. 308,215. 1 Claim. (Cl. 292—275.)



The combination with a window frame, of a window pivotally mounted on the outer edge thereof, a hinged member carried by the inner edge of said frame having a flexible tongue, said tongue being adapted to lie on a plane parallel with the inner face of the window, a strip secured over said tongue adjacent its connection with the window frame, a pair of superposed strips secured to said window forming a frictional guideway through which said tongue passes and a projection formed on the free end of said tongue for limiting the movement of said tongue in said frictional guideway.

1,398,630. ELECTRICAL RESISTANCE APPARATUS. PHILIP HENRY DAWE, London, England. Filed Aug. 25, 1917. Serial No. 189,284. 2 Claims. (Cl. 165—416.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. An electric apparatus of the character described, comprising a plurality of tubular elements, some of insulating and some of conductive material alternatingly disposed forming a conduit for a liquid medium adapted to be acted upon by the electric current, said conductive



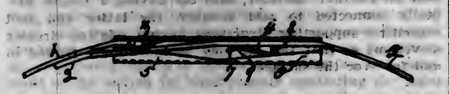
elements constituting the electrodes, and means for continuously passing the said liquid medium through said conduit.

1,398,631. RUBBER HEEL. SAMUEL DE GRAZIA, Washington, D. C. Filed Oct. 22, 1920. Serial No. 418,679. 2 Claims. (Cl. 36—35.)



1. A cushion shoe heel comprising a nail holding insert in the form of a leather plate of the thickness of a lift at its margin and having a concavity in its upper face, said plate being provided with a central opening, and a rubber body in which the insert is inclosed completely with the exception of its marginal edge, the rubber body extending through the opening of the insert and filling the concavity of the latter, the upper surface of the body being in the same plane as the highest marginal portion of the insert, whereby the insert has the appearance of an upper leather lift when the heel is in use.

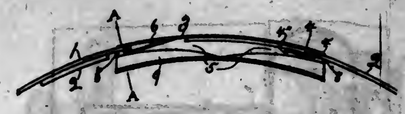
1,398,632. APPAREL-BELT BUCKLE. KENNEDY DOUGAN, Minneapolis, Minn. Filed Apr. 14, 1921. Serial No. 461,261. 4 Claims. (Cl. 24—194.)



1. A belt buckle including a front plate having parallel sides, tapering grooves formed in said sides adjacent said front plate the sides of said grooves converging toward the ends of said buckle, and belt holding means in said grooves adapted to hold the belt by forcing it against said front plate.

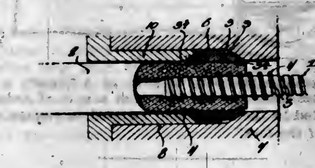
1,398,633. APPAREL-BELT BUCKLE. KENNEDY DOUGAN, Minneapolis, Minn. Filed Apr. 20, 1921. Serial No. 462,266. 3 Claims. (Cl. 24—194.)

1. A belt buckle including a front plate having parallel sides projecting from the back thereof, grooves formed between an inwardly turned portion of said sides and said front plate, said grooves tapering from the longitudinal



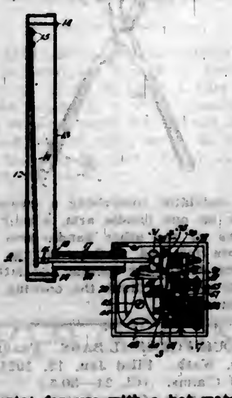
center of the buckle toward either end with a decreasing taper, and means for holding both the fixed and adjustable ends of the belt to the buckle.

1,398,634. MEANS AND METHOD FOR CONNECTING TUBING OF DISSIMILAR MATERIALS. JOSEPH PETER EASTMAN, Manitowoc, Wis., assignor to Eastman Manufacturing Company, Manitowoc, Wis., a Corporation. Filed June 20, 1919. Serial No. 305,715. 4 Claims. (Cl. 285—84.)



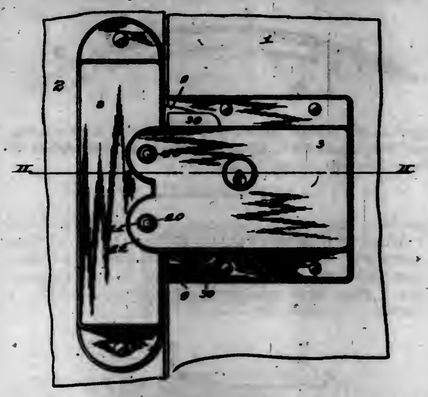
3. An article of the class described adapted to secure a relatively incompressible tube and a relatively compressible tube together comprising a non-resilient sleeve having an external, annular reinforcing band, said band being approximately twice the distance from one end than the other, whereby when the end portions of the sleeve on each side of the band are bent in a suitable tool, the bend of the wider portion will be begun before the bend of the narrow portion, but the bending will be completed substantially simultaneously.

1,398,635. THERMOSTAT. HARRISON H. FOGWELL and JOHN M. MORRIS, Los Angeles, Calif. Filed Nov. 15, 1917. Serial No. 202,238. 5 Claims. (Cl. 200—138.)



5. A thermostat for use with a hot water tank comprising a thermostat case adapted to be clamped in good thermal contact with the outside of said tank at a point intermediate of the height thereof; a thermostatic element in said case; a switch case; a switch in said switch case; and means by which said thermostatic element operates said switch.

1,398,636. LOCK. MORRIS FORLANDER, New York, N. Y. Filed Jan. 25, 1921. Serial No. 439,740. 14 Claims. (Cl. 70—46.)



1. The combination with a lock, of a keeper, a bolt operatively mounted in the lock, and a pair of swinging bolts mounted in the keeper and adapted to engage opposite edges of the lock.

1,398,637. HAIR-ONDULATOR. CAROLINA FUCHS-MAURER, Zurich, Switzerland. Filed Apr. 6, 1920, Serial No. 371,720. Renewed Apr. 9, 1921. Serial No. 460,095. 2 Claims. (Cl. 132—37.)



1. A hair ondulator comprising a two-armed handle, a fixed finger on one handle arm, a pair of separated pivoted fingers on the other handle arm, eccentrically disposed pivots for and trailers on the said pivoted fingers, resilient means for opening the latter, and stops on the handle arms to limit the opening movement of said pivoted arms.

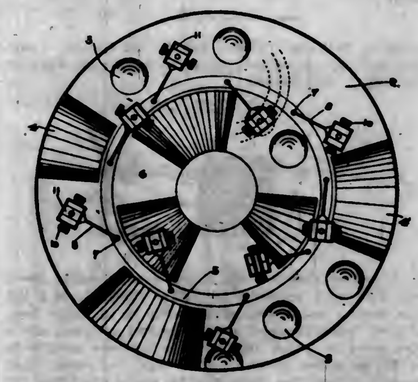
1,398,638. LOCK FOR MAIL-BAGS. FRANK L. GRAHAM, Jr., Seattle, Wash. Filed Jan. 18, 1921. Serial No. 438,137. 6 Claims. (Cl. 24—30.5.)

5. As a new article of manufacture, a detachable lock for the tie fasteners of newspaper mail sacks comprising a rectangular casing having an open end, a bolt slidably mounted in the casing through said open end, a rigid jaw carried by the bolt, a pivoted jaw carried by the bolt and arranged to extend beyond the casing when the bolt is in its extended position, spring means for normally urging the bolt outwardly of the casing, a post carried by the bolt, locking tumblers pivotally



mounted in the casing, each of the tumblers having gates formed therein arranged to receive the post, and means for actuating the tumblers.

1,398,639. AMUSEMENT DEVICE (CIRCLING WHIP.) ERNEST KOEHLER, Denver, Colo., assignor to The United Mines and Manufacturing Company, a Corporation of Arizona. Filed Aug. 28, 1919. Serial No. 320,392. 6 Claims. (Cl. 46—27.)

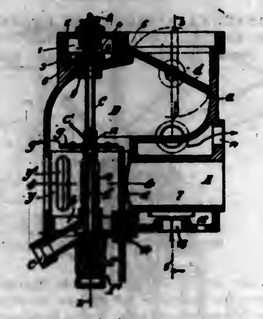


1. In an amusement apparatus of the character described, an inner and outer concentric supporting structure spaced from each other at their adjacent edges and having a generally horisontal top contour; an intermediate member arranged in and bridging said space; and a car having wheels to traverse the surface of the said inner and outer concentric supporting structures and said intermediate member, said car having a tongue pivotally connected to said member, the latter and said concentric supporting structures having relative circular movement so that the car may be indefinitely trailed to and fro over the surfaces.

1,398,640. CARBURETER. PAUL LANDIS, Zurich, Switzerland. Filed Jan. 30, 1919. Serial No. 274,074. 3 Claims. (Cl. 261—41.)

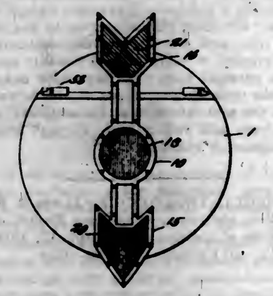
2. In a carbureter, a body having a mixing chamber and inlet ports communicating therewith, a chamber in said body, a liquid fuel jet having a discharge aperture located in the mixing chamber, a spring closed valve associated with the discharge aperture of the jet and having a longitudinal opening adapted to conduct liquid fuel from the discharge aperture of the jet to the second mentioned chamber, a throttle valve located in the body, said body having a passage terminating adjacent the

throttle valve and communicating with the second mentioned chamber, and a diaphragm located in the second



mentioned chamber connected with the valve whereby the latter is actuated by the production of a depression in the second mentioned chamber.

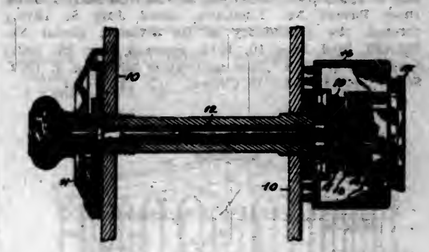
1,398,641. VEHICLE-SIGNAL. WILLIAM H. LEARMONT, Yale, Mich. Filed Dec. 5, 1918. Serial No. 265,423. 4 Claims. (Cl. 177—327.)



1. In a vehicle signal the combination with a normally stationary index having translucent faces, and a lamp housing between the ends of the index and at the axis of movement thereof, of a lamp for illuminating said housing, stationary shutters normally cutting off light rays from the housing to the translucent faces of the index, a switch adapted to be operated by the driver, an electrically operated means controlled by one movement of the switch for continuously oscillating the index relative to the shutters to intermittently illuminate said faces of the index while the switch is held at the position to which it is moved by the driver.

1,398,642. DIAL-LOCK. ROLLIN C. LEWIS, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Mar. 25, 1921. Serial No. 455,464. 8 Claims. (Cl. 70—53.)

1. In a lock, the combination of a series of tumblers, a driving cam for the same, a fence, a movable member held in locking position by the tumblers and fence and a safety latch normally held in inoperative position by its engagement with the periphery of the driving cam, and adapted to move to deadlock said movable member



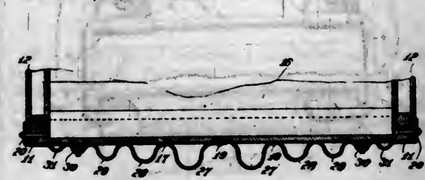
in the event the driving cam should be forced rearwardly from its normal position.

1,398,643. CORRUGATED SHEET-METAL CAR END. WALTER P. MURPHY, New York, N. Y. Original application filed Mar. 6, 1916, Serial No. 82,423. Patent No. 1,309,484, dated July 8, 1919. Divided and this application filed June 10, 1919. Serial No. 304,429. Renewed May 28, 1921. Serial No. 473,318. 23 Claims. (Cl. 105—410.)



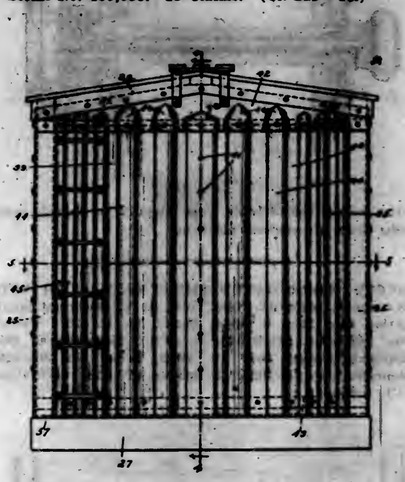
5. A sheet metal end structure for a railway car comprising a plurality of corrugated sheets overlapped on vertical lines and secured together and to the frame of the car, each corrugated sheet being formed with uniform vertical corrugations, those of the central sheets being deeper than those of the adjacent sheets.

1,398,644. CORRUGATED-SHEET-METAL CAR END. WALTER P. MURPHY, New York, N. Y. Division of application Serial No. 82,423, filed Mar. 6, 1916, (now Patent No. 1,309,484, dated July 8, 1919,) through the copendency of its division, Serial No. 304,429, filed June 10, 1919, renewed May 28, 1921, Serial No. 473,318. This application filed May 28, 1921. Serial No. 473,377. 14 Claims. (Cl. 105—410.)



1. A car end structure comprising two end sheets secured together along the vertical center line of the end and formed with corrugations which are deepest adjacent said vertical center line and are progressively shallower each with respect to the preceding one toward the sides of the car.

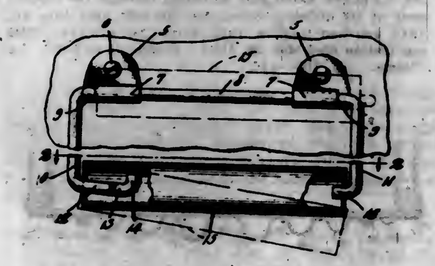
1,398,645. VERTICALLY-REINFORCED SHEET-METAL CAR END. WALTER P. MURPHY, New York, N. Y. Division of application Serial No. 82,423, filed Mar. 6, 1916, (now Patent No. 1,300,484, dated July 8, 1919,) through the copendency of its division, Serial No. 304,429, filed June 10, 1919, renewed May 28, 1921, Serial No. 473,218. This application filed Aug. 1, 1921. Serial No. 489,658. 13 Claims. (Cl. 219—40.)



1. An end structure for a railway car comprising two metal end sheets secured together along the vertical center line of the end and formed with rigidifying corrugations which are deeper near the middle of the end than at the sides thereof.

2. An end structure for a railway car comprising two metal end sheets secured together along the vertical center line of the end and formed with vertically disposed rigidifying corrugations which are deeper near the middle of the end than at the sides thereof.

1,398,646. ROLL-HOLDER. WALTER Z. MURRAY, Richmond, Va. Filed July 21, 1921. Serial No. 486,627. 2 Claims. (Cl. 211—31.)



1. A roll holder including a pair of brackets, each bracket having a gripping member and having a shoulder disposed adjacent thereto, a movable support including a rod having arms formed at its ends, one of said arms extending inwardly and having an outwardly curved portion terminating in a right angled end, a spool supported on the arms, and the opposite arm having a right angled end to be positioned in the opposite end of the spool.

1,398,647. INTERNAL-COMBUSTION ENGINE. HAROLD CORNELIUS READING, Dewsbury, England. Filed Mar. 31, 1920. Serial No. 370,182. 3 Claims. (Cl. 123—73.)



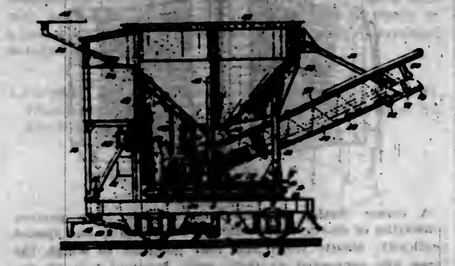
1. In an internal combustion engine having a carbureter, a cylinder having a combustion chamber and an extension and a conduit arranged for connection to the carbureter and leading from said extension to the combustion chamber of the cylinder, a valve in said conduit arranged to close against pressure from the combustion chamber, and a piston in the cylinder and having means to draw a rich mixture into the said extension at its outstroke, and at its instroke to force said rich mixture through said conduit into said combustion chamber.

1,398,648. REGULATING DEVICE. JAMES B. REPLOGLE, Detroit, Mich., assignor to The Remy Electric Company, a Corporation of Indiana. Filed Apr. 17, 1918. Serial No. 229,015. 10 Claims. (Cl. 200—90.)



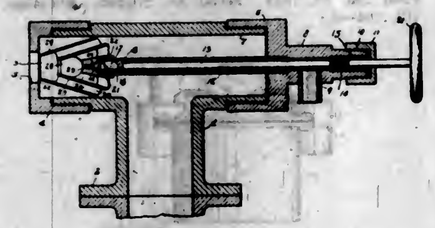
2. In a controlling device, the combination with an electromagnet including a winding and a core; an armature carrying spaced contacts; means for resiliently supporting said armature and capable of adjustment relatively to said core to cause one portion of the armature to be nearer to the core than another portion, but without changing the air gap area; spaced movable contacts supported by the armature; and stationary contacts supported by said means.

1,398,649. CHARGING DEVICE. RAY S. RICHARDS, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Dec. 18, 1917, Serial No. 207,734. Renewed Apr. 22, 1921. Serial No. 463,575. 6 Claims. (Cl. 214—83.)



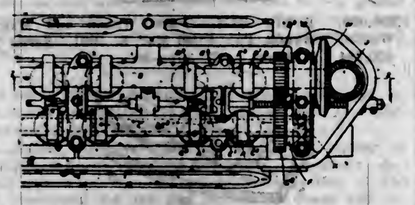
6. In a device of the class described, the combination with a source of supply, of a trough adapted to deliver material from said source, and an automatic valve adapted to close the end of the trough when the flow of material therethrough becomes less than a predetermined rate.

1,398,650. OIL-BURNER. BERTRAM S. ROTHWELL, Cleveland, Ohio. Filed Oct. 1, 1919. Serial No. 327,729. 5 Claims. (Cl. 158—76.)



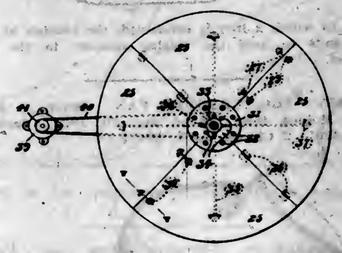
1. In an oil burner, the combination of T-joint casing, having an air inlet, a cap removably attached to said T-joint, a fuel conduit removably attached to said cap and extending forwardly of said T-joint, and a mixing member removably attached to said conduit and consisting of a series of cone shaped sleeves, spaced from each other and attached to each other by spiral blades, the blades between successive sleeves spiraling in opposite directions.

1,398,651. VALVE-GEAR FOR INTERNAL-COMBUSTION ENGINES. ARTHUR JOHN ROWLEDGE, London, England, assignor to D. Napier & Son Limited, London, England. Filed Nov. 7, 1918. Serial No. 261,520. 6 Claims. (Cl. 123—59.)



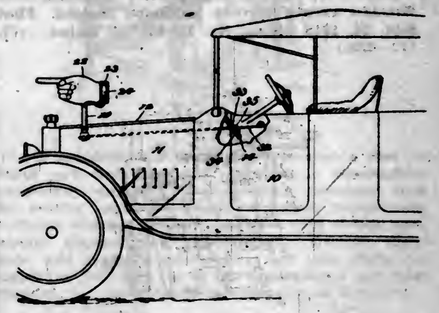
1. In a valve gear for a multicylinder engine, the combination with a series of valves having valve stems and tappet disks, of a cam shaft located above said tappet disks and having a cam operating on each tappet disk, a bearing for the cam shaft located adjacent each tappet disk and arranged to discharge oil upon the same, and means for oiling the bearings.

1,398,652. ROUNDABOUT. WALTER J. ROZANSKI, Pittsburgh, Pa. Filed May 31, 1921. Serial No. 473,617. 2 Claims. (Cl. 46—27.)



1. In a roundabout, a vertical post, a hollow shaft rotatably mounted on said post and having an enlargement at its upper end defining a horisontal annular shoulder, a platform fitted onto the upper end of said base and resting upon said shoulder, said platform being provided with a series of sockets in its under face, and upwardly projecting rigid pins extending from said shoulder and fitting into said sockets.

1,398,653. TRAFFIC-SIGNAL FOR MOTOR-VEHICLES. JAMES J. SANTIN and GEORGE M. WHITE, El Reno, Okla. Filed Jan. 17, 1921. Serial No. 437,977. 9 Claims. (Cl. 116—46.)

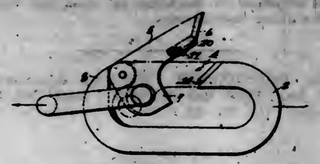


1. A traffic signal including a rotatable shaft, an indicator connected therewith, an arm extending from the shaft, and slidable means connected with said arm movable for swinging the arm and rotating the shaft, said means being formed to coact with the shaft whereby said means will be limited in its movement.

1,398,654. SAFETY-HOOK. ANDREW J. SARUP, North Vancouver, British Columbia, Canada, assignor to Annie M. Sarup, North Vancouver, Canada. Filed June 29, 1920. Serial No. 392,629. 4 Claims. (Cl. 24—242.)

1. A safety hook, the shank of which is recurved toward the point of the hook, a member pivotally mounted in the recurved end of the shank and adapted

to close against the end of the hook and alinb therewith, said member having a projection within the recurved



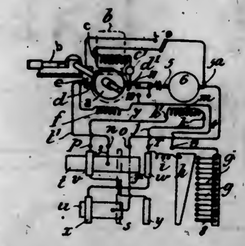
shank to which a line is connected, the tension of which line tends to hold the closing member in the closed position.

1,398,655. EGG-TURNOVER PAN. JESSE A. SMITH, Des Moines, Iowa. Filed Apr. 19, 1921. Serial No. 462,620. 2 Claims. (Cl. 53—7.)



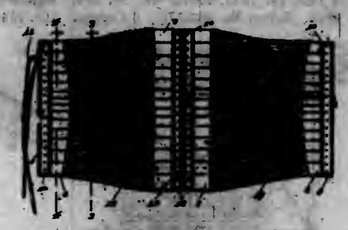
1. In a device of the class described, a frying pan having a lip thereon, said lip being curved in cross section and having its free edge arranged so that it extends over the bottom of the pan, the parts being so adapted that a sudden jerk of the pan will cause the contents thereof to be slid against the lip and to position where it will be turned over for the purposes stated.

1,398,656. POWER-TRANSMITTING MECHANISM. WILLIAM ARTHUR STEVENS, Maidstone, England. Filed Sept. 24, 1918. Serial No. 255,433. 3 Claims. (Cl. 172—239.)



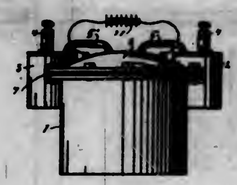
1. An electrical transmission arrangement of the kind referred to, comprising an electrical generator having shunt and series field windings, a motor having a series field winding adapted to be connected in parallel with the generator series field winding, a lead connecting one brush of the governor to one brush of the motor, a variable resistance connected to one end of the generator series field winding, a controller and leads adapted to connect the said resistance in parallel with the generator series field winding and at the same time short circuit the motor series field winding, and a pair of terminals one connected to the lead directly connecting the generator and motor and the other connected to the lead between the variable resistance and the generator series winding, from which terminals current can be supplied for purposes such as lighting with a variable compounding effect of the generator.

1,398,657. CORSET. ELLA THOMPSON, Chicago, Ill. Filed Sept. 28, 1920. Serial No. 413,264. 1 Claim. (Cl. 2—73.)



A corset section composed of a main body portion consisting of elastic tapes running horizontally and spaced vertically, elastic front and rear portions to which the tapes are connected at their ends, front and rear edge members connected to said front and rear portions respectively, and a loose lining for one side of the aforesaid tapes, said covering being composed of strips which run parallel to the tapes and are connected at their longitudinal edges and also to the tapes, and the ends of said strips being connected to the aforesaid front and rear portions at their junction with the tapes.

1,398,658. PROCESS FOR EXTRACTING GASES FROM LIQUIDS. FRANK S. VINCENT, Grand Rapids, Mich. Filed Jan. 13, 1919. Serial No. 270,967. 3 Claims. (Cl. 204—5.)



1. In the process of extracting gases from liquids by electrolysis, the use of an air tight tank divided into two chambers, said chambers electrically connected and partly filled with an electrolyte and arranged to form a vacant space in each chamber above the electrolyte, an air tight receiving chamber connected with each vacant space above the electrolyte, the electrolyte chambers and the receiving chambers relieved of all air possible, an anode plate partly immersed in the electrolyte in one chamber, a cathode plate partly immersed in the electrolyte in the other chamber, and proper electrical connections with said anode plate and cathode plate for separating the gases from the electrolyte and storing them in their respective receiving chambers.

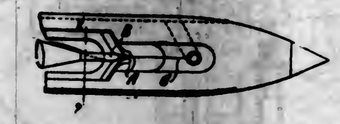
1,398,659. SPLIT RIM. FRED WELLS and MARTIN WELLS, Towanda, Pa. Filed Mar. 8, 1921. Serial No. 450,784. 2 Claims. (Cl. 301—30.)



1. The combination with adjacent abutting ends of a split rim, of means for forcing said ends into abutting

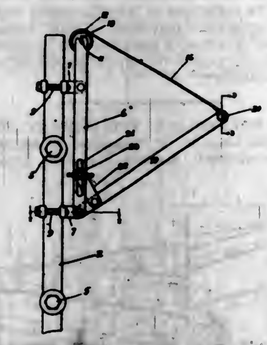
engagement from an overlapped position, said means comprising a plate carried by one of said ends and provided with oppositely arranged notches, a dog carried by a pivoted member on the other abutting end and coöperating with depressions in the plate, said dog and depressions forming means whereby the overlapped ends may be moved in opposite directions intermittently by a tool when said tool is inserted in the oppositely arranged notches of the plate.

1,398,660. LOOM-SHUTTLE. THOMAS HENRY WHALLEY, Blackburn, England. Filed June 16, 1920. Serial No. 389,392. 3 Claims. (Cl. 139—46.)



1. The combination, with a loom shuttle provided with a peg for holding a cop, of a strip of resilient material secured to the shuttle body at one end and provided at its free end portion with a smooth surface which bears forcibly against the free end portion of the said peg and operates to press the weft against the said peg as the weft passes out of the shuttle.

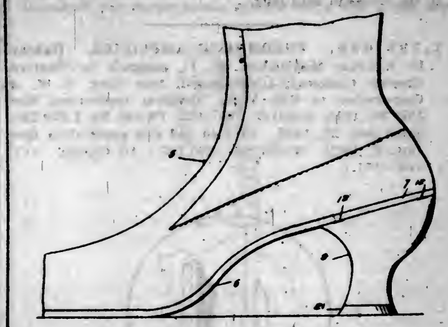
1,398,661. WINDSHIELD-SHADE. HORACE G. WHITMORE and CHARLES T. GLASSER, Minneapolis, Minn. Filed Sept. 23, 1920. Serial No. 412,202. 2 Claims. (Cl. 296—95.)



1. The combination, with a wind shield frame, of clamps secured thereto, bars mounted on said clamps in front of and adjacent to said frame, the upper ends of said bars being adjacent the top of said frame, a shade roller and shade having bearings in the upper end of said bars, arms pivoted at one end to the lower ends of said bars and having means at their outer ends for connection with the free end of said shade, and links pivoted on said arms near said bars and having sliding clamping adjustment with said bars for forcing said arms downwardly against the tension of said shade and roller.

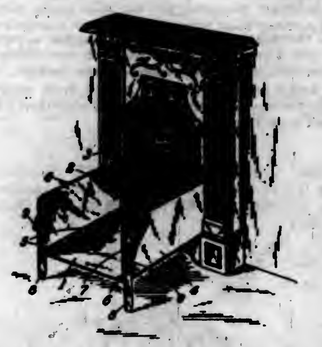
1,398,662. INTERCHANGEABLE HEEL. ERNEST A. WINDSOR, Port Huron, Mich. Filed Feb. 27, 1920. Serial No. 361,894. 1 Claim. (Cl. 36—40.)

A molded shoe heel cored in its top and bottom to provide outwardly opening chambers, oppositely disposed pins secured in the intermediate portion of the heel separating the top and bottom chambers and extending through the latter and threaded at their outer ends, plates extending over the respective chambers and having inwardly depressed centrally apertured portions to receive the outer threaded ends of the respective pins, and nuts threaded on the outer ends of the pins and



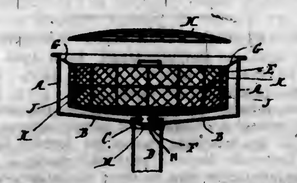
disposed in the depressed portions of the respective plates.

1,398,663. GAS FIRE, ELECTRIC RADIATOR, AND THE LIKE. CHARLES WRAY, Croydon, England, assignor to himself and Conquest John Stanley, London, England. Filed Feb. 6, 1920. Serial No. 356,769. 5 Claims. (Cl. 126—141.)



2. In combination with heating apparatus, a heat reflector and draft excluder, comprising a substantially horizontally disposed plate extending forwardly from the heating apparatus, a pair of spaced substantially vertically disposed plates at opposite sides of said horizontally disposed plate and extending upwardly therefrom, and supports mounted on said side plates for supporting the outer end of the heat reflector and draft excluder, for the purposes substantially as described.

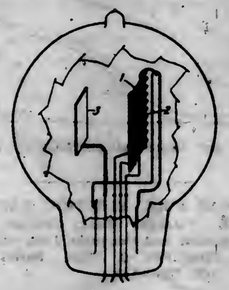
1,398,664. DISH-CLEANER. CONSTANCE DURELL ARMSTRONG, Gisborne, New Zealand. Filed June 21, 1920. Serial No. 390,460. 2 Claims. (Cl. 141—9.)



2. A sink having a closure plug detachably fitted in its waste pipe, said plug having a bearing recess in its upper

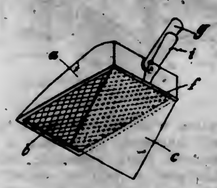
side, and a cage arranged in said sink and having a central supporting member detachably and revolubly mounted in the recess of said plug.

1,398,665. THERMIONIC AMPLIFIER. HAROLD D. ARNOLD, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Original application filed July 30, 1918, Serial No. 247,422. Patent No. 1,329,283, dated Jan. 27, 1920. Divided and this application filed Jan. 8, 1920. Serial No. 350,197. 10 Claims. (Cl. 179—171.)



1. A thermionic discharge device having a cathode, an anode and a controlling element, said controlling element being located in close proximity to the cathode, and said anode being relatively widely spaced from said cathode whereby the device operates to repeat electrical waves and impulses with amplified voltage.

1,398,666. COMBINED SIFTER AND SHOVEL. HERBERT HENRY BEACH, Balham, London, England. Filed May 27, 1919. Serial No. 300,125. 1 Claim. (Cl. 83—60.)

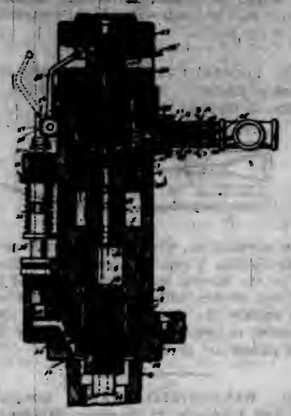


A combined sifter and shovel including a shovel body having a screened bottom permanently fitted thereto, a handle carried by the shovel body, a false bottom hinged to the rear edge of the shovel body and co-extensive with the said screened bottom portion thereof, a handle carried by said false bottom and extending to one side of the hinging axis, and a spring confined between the handle on the shovel body and the said handle on the false bottom to maintain the latter in a normally closed position.

1,398,667. INTERNAL-COMBUSTION ENGINE. EARL V. BEALS, Arlington Heights, Mass. Filed June 14, 1916, Serial No. 104,126. Renewed Nov. 20, 1918. Serial No. 263,438. 14 Claims. (Cl. 123—25.)

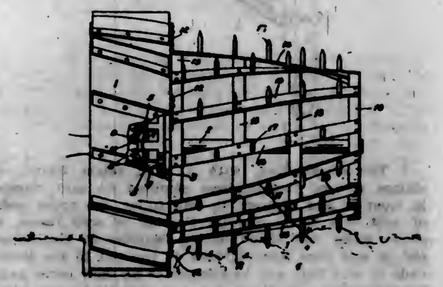
1. In an internal combustion engine, the combination with the explosion chamber; of means operated by the pressure of the exploding charge for forcing liquid into the said explosion chamber while the charge is burning; and a separate device also operated by the pressure of the exploding charge for regulating the amount of liquid forced into the cylinder.

18. In combination with a cylinder of an internal combustion engine, means for forcing liquid into the engine cylinders during the explosion period comprising a plunger subjected to the pressure within the cylinder and movable in response to an explosion pressure, and a valve carried by the plunger and opened by liquid pressure occasioned



by a movement of the plunger, and means for regulating the amount of liquid delivered, comprising means movable in response to variations in liquid pressure occasioned by a pressure responsive movement of said plunger, and a stop movable to different positions and actuated by pressure within the cylinder for regulating the delivery of liquid to the cylinders.

1,398,668. PULVERIZER ATTACHMENT FOR TRACTORS. EVANDOR K. M. BORDSEN, Wedderburn, Oreg. Filed Nov. 15, 1920. Serial No. 424,213. 5 Claims. (Cl. 55—24.)



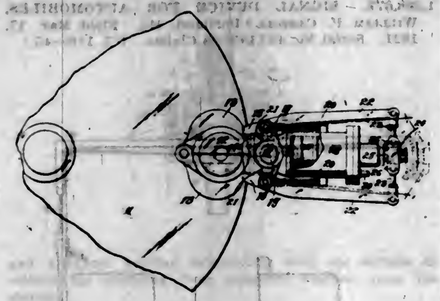
1. A pulverizer comprising a shaft, a plurality of wheels secured to said shaft, ground-breaking members carried by the peripheries of said wheels, and means at one end of said shaft for clamping it to a tractor wheel.

1,398,669. [WITHDRAWN.]

1,398,670. MOLD-CLAMP FOR GLASS-FORMING MACHINES. EDWARD G. BARNES, Anderson, Ind., assignor to Lynch Glass Machinery Company, Anderson, Ind., a Corporation of Indiana. Filed Mar. 24, 1920. Serial No. 368,208. 7 Claims. (Cl. 49—14.)

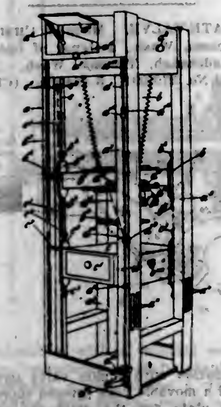
7. In a glass-molding machine, the combination of a mold carrier and molds thereon composed of hinged sec-

tions, means arranged alongside the path of movement of the molds for engaging the mold sections and clamping them together, said clamping means comprising a pair of levers pivoted near their mold engaging ends to swinging arms, an operating device located between the opposite



ends of said levers, and links connecting said operating device and the ends of said levers, said links having shoulders limiting the swinging movement of said links, whereby movement of said operating device swings said links to open and close said clamping levers and to move said arms and levers toward and from the mold sections.

1,398,671. UPRIGHT PHOTOGRAPHIC, ENLARGING, COPYING, AND REDUCING APPARATUS. JOHN GILLIS BROWN, Newport, England. Filed Aug. 9, 1919. Serial No. 316,828. 3 Claims. (Cl. 88—24.)

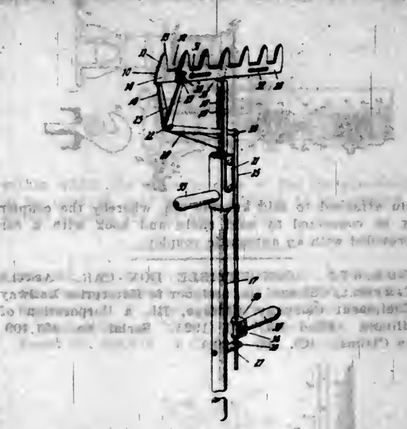


3. A photographic apparatus of the class described including a frame, a fixed negative receiving member at the top of the frame, a balanced adjustable lens box beneath the negative receiving member, a balanced work-carrying member beneath the lens box, and a vignetting support adjustably carried by the lens box at one side of the shutter position thereof.

1,398,672. HAND CLIPPER-MOWER. AMBROSE CASSAR, Mosman, near Sydney, New South Wales, Australia. Filed Sept. 17, 1920. Serial No. 410,662. 3 Claims. (Cl. 30—11.)

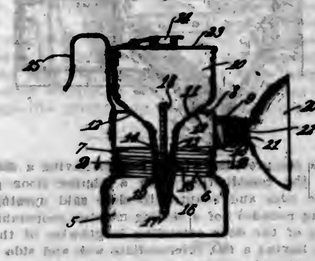
1. In a hedge clipper, a haft having a head, a comb fixed transversely on the head of the haft, a cutter coact-

ing with said comb and adapted to be reciprocated on said comb, a rod slidably carried on said haft in alinement therewith for reciprocating the cutter, a bell crank con-



necting said rod and cutter, and a hand grip on said rod immovable along said rod but rotatably mounted thereon to accommodate it to the operator's hand position irrespectively of the working position of the clipper.

1,398,673. ACETYLENE-GENERATOR. JAMES W. CAIN, Detroit, Mich. Filed June 18, 1920. Serial No. 389,983. 1 Claim. (Cl. 48—4.)

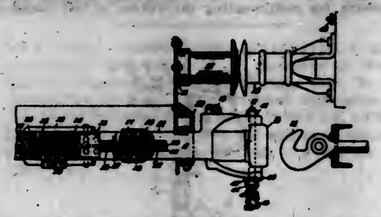


An acetylene generator comprising a carbid container, a water containing receptacle supported on the carbid container, a discharge tube secured to the base of the water containing receptacle, and communicating with the carbid container, said base of the water containing receptacle being formed into a funnel-shaped downward extension terminating within the discharge tube in a restricted mouth, a nut frictionally held within the discharge tube and in spaced relation below the restricted mouth, said nut having openings to permit fluid to pass therethrough, and a threaded valve member operating through a threaded opening in the nut for controlling the passage of fluid through the discharge tube.

1,398,674. RAILWAY DRAFT-RIGGING. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed May 24, 1920. Serial No. 383,651. 2 Claims. (Cl. 213—42.)

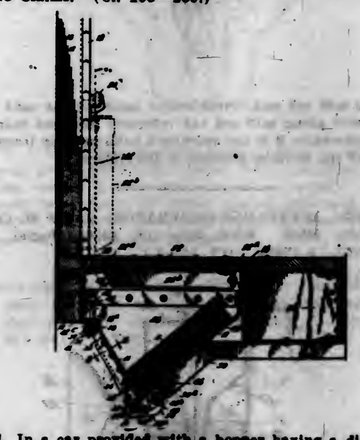
1. In a railway draft rigging interchangeably usable with automatic couplers of the Master Car Builders' type and hook and link couplings, the combination with

a coupler having an M. C. B. automatic coupler head, including a pin for the knuckle; of a hook and link



chain attached to said knuckle pin, whereby the coupler may be connected by said chain and hook with a car unprovided with an automatic coupler.

1,398,675. CONVERTIBLE BOX-CAR. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 10, 1921. Serial No. 451,409. 18 Claims. (Cl. 105—239.)



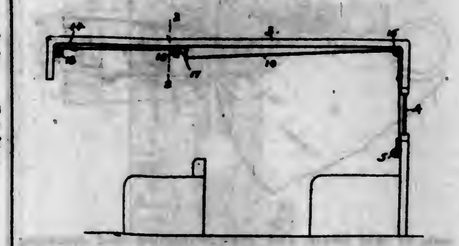
1. In a car provided with a hopper having a discharge opening, the combination with a hopper door pivoted along one edge and adapted to close said opening, said edge being rounded; of a sealing member coöperable with said edge of the door extending lengthwise of the door edge and having a flat intermediate web and side flanges extending therefrom toward the door and within which is oscillatably movable said rounded edge of the door, said rounded edge having lines of contact with the inner faces of said flanges and with said web.

1,398,676. ALCOHOL-TORCH. FRANCIS B. CARLETON, Boston, Mass. Filed June 1, 1920. Serial No. 385,419. 2 Claims. (Cl. 158—27.5.)



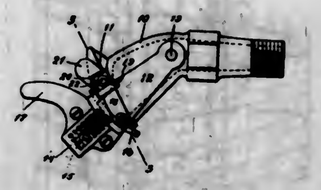
1. An alcohol torch, comprising a tank, a wick-tube detachably mounted in said tank with its upper end projecting above the tank, said tank being provided with a vertical groove in its body-portion and extending along one side thereof, a blower-tube positioned in said vertical groove, and means for retaining the blower-tube in the groove and holding it in its adjusted positions.

1,398,677. SIGNAL DEVICE FOR AUTOMOBILES. WILLIAM P. CARROLL, Portland, Me. Filed Mar. 17, 1921. Serial No. 453,143. 5 Claims. (Cl. 116—45.)



1. A signal device for automobiles, consisting of a spring roller secured to the rear of the car adjacent to the window, a strip of flexible material wound thereon having signal words visible from the rear of the car, a spring roller in the forward portion of the car having a strip of flexible material wound thereon, the said strips of flexible material being united by a cord or the like and guides for guiding said cord.

1,398,678. GATE-VALVE. MOGENS CHRISTIAN CHRISTENSEN, Tacoma, Wash., assignor of one-half to Randolph F. Radebaugh, Tacoma, Wash. Filed May 5, 1920. Serial No. 379,091. 5 Claims. (Cl. 251—19.)



1. In combination with a gate valve structure including a body and a movable yoke pivoted thereto and carrying a closure plate for the discharge end thereof, a locking device comprising a spring secured at one end upon the yoke, a guide bracket carried by the yoke and through which said spring extends, a block member carried by the projecting end of the spring and formed with a handle, and a catch projecting from said block member, the body being provided with a recess for the reception of said catch and having an inclined shoulder leading thereto.

1,398,679. TOOL-HOLDER. CHARLES JEROME CLARK, Lakewood, Ohio. Filed Jan. 25, 1921. Serial No. 439,846. 4 Claims. (Cl. 279—16.)

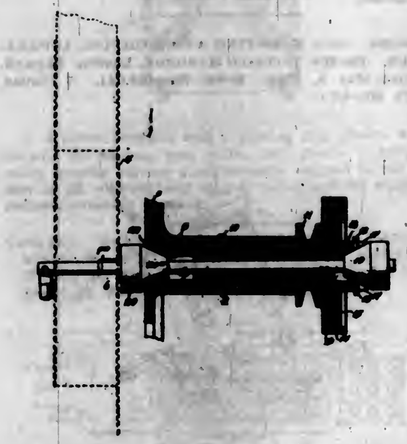
1. In a tool holder of the floating type, the combination of a spindle; a driving element therefor; an Oldham coupling interposed between the same; means acting upon

said coupling and independent of the driving connections thereof to alline the spindle and driving element;



and a thrust bearing coöperating with the spindle to relieve the coupling from pressure exerted upon the spindle.

1,398,680. TAKE-UP MECHANISM FOR WINDING DEVICES. JOSEPH CLAYTON, New York, N. Y. Filed Apr. 24, 1920. Serial No. 376,253. 10 Claims. (Cl. 242—55.)



6. The combination with a winding mechanism of a take-up device, comprising a shaft adapted to support the winding element, driving means, a clutch mechanism interposed between said driving means and said shaft, and means for permitting a longitudinal movement of said shaft as the load upon the winding element increases to function the clutch mechanism in a manner whereby the winding element will take-up the material being wound with an even tension, irrespective of the amount of material on said element.

1,398,681. NUT-LOCKING-MEANS. FRANK V. COOKE, Highland Park, Mich. Filed Nov. 19, 1920. Serial No. 425,109. 4 Claims. (Cl. 151—29.)

1. In combination with a nut and the end of a threaded member, said threaded end being provided with a transverse aperture therethrough, a pin adapted to be received in said aperture, a washer adapted to be received upon the end of said threaded member provided with a portion adapted to embrace the nut so as to prevent rotation thereof and provided with grooves



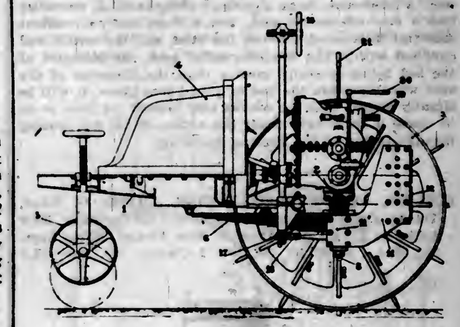
within which the opposite ends of the pin are adapted to be received, said washer adapted to be crimped inwardly between the nut and the pin.

1,398,682. BULLET-PROOF ARMOR. THEODORE DE DRAGIC and ALBERT SCHWARZ, New York, N. Y., assignors to U. S. Armor Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 26, 1920. Serial No. 368,818. 9 Claims. (Cl. 89—36.)



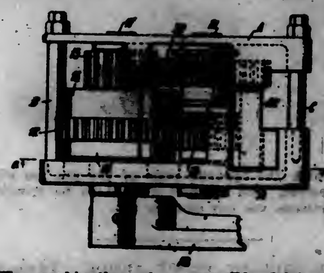
1. In a bullet proof shield, the combination of a flexible support, and bullet proof armor consisting entirely of plates of highly tempered thin sheet metal wrapped with textile fabric as the bullet resisting members, the said wrapped plates being each independently and flexibly secured to the support, and being arranged in shingle-like overlapping relation one with another.

1,398,683. TRACTOR. LOUIS LUBIN DUBOIS, Asnières, France. Filed June 29, 1920. Serial No. 392,793. 12 Claims. (Cl. 180—12.)



1. A tractor, particularly for agricultural implements, comprising a chassis, two driving wheels at the rear, a third wheel in front, means for adjusting said third wheel vertically, steering mechanism for the said driving wheels, and means for connecting the steering mechanism with the two driving wheels or to the front wheel as desired.

1,398,624. QUICK-RETURN PUMP-HEAD GEARING. BERNARD P. FALETE, Barnesville, Pa. Filed Nov. 12, 1919. Serial No. 337,511. 12 Claims. (Cl. 74—59.)



3. The combination of a reversible driving shaft, a counter shaft having two gears secured thereon, differential gears on the driving-shaft, one-way clutch devices respectively arranged to drive in opposite directions, one clutch device adapted to drive a low speed gear and the other a high speed gear of the said differential gears, means to bias both clutch devices into position to engage both said low and high speed gears, and a means, responsive to the engaging movement of the clutch device for the high speed gear, for holding the clutch device for the low speed gear in inoperative position.

1,398,685. AIR-FILTER. JOHN A. GORDON, Kansas City, Mo., assignor of one-half to Charles E. Hose, Kansas City, Mo. Filed Mar. 5, 1921. Serial No. 449,790. 2 Claims. (Cl. 183—44.)



1. A filter comprising a casing having an inlet, an outlet and a circumferential seat, and a filter bed of resilient material interposed between the inlet and the outlet and confined within the circumferential seat, the diameter of the bed being normally greater than the diameter of the seat whereby when the bed is forced into place, it will be slightly dished with the convex side toward the inlet so as to cause it to vibrate under the action of the air passing through it during the filtering operation.

1,398,656. SHIPPING-CONTAINER. HENRY G. GRAF, Toledo, Ohio, assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 30, 1915. Serial No. 53,200. 1 Claim. (Cl. 220—55.)



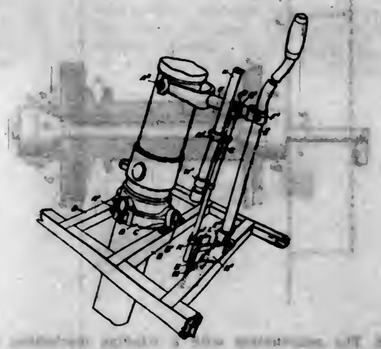
A shipping vessel comprising a body having an outwardly extending peripheral bead, a cover for said body having a downwardly extending peripheral flange fitting around said bead of the body, said flange extending below said bead and being spaced away from the wall of the body, said flange being formed with a plurality of tongues cut out from said flange along their side and bottom edges and integral with said flange along their tops, and adapted to be bent inwardly to engage beneath the bead of the body to secure the cover in place, the bottom edge of the cover flange being left continuous around the vessel, at a distance from the wall of the vessel.

1,398,687. THERMOPHONE. ROSS D. GRAY, Greenwich, Conn., assignor to American Thermophone Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 19, 1920. Serial No. 359,948. 5 Claims. (Cl. 179—101.)



1. The device above described comprising segments arranged to form a chamber and thermic units, each segment carrying one or more of said thermic units arranged parallel to each other and projecting therefrom into said chamber in a plane or planes crosswise of the length thereof, and means for connecting said units with a source of current.

1,398,688. GUN MOUNTING AND SIGHTING APPARATUS. BELTON TATTNALL HAMILTON, London, England. Filed May 9, 1921. Serial No. 468,041. 7 Claims. (Cl. 89—40.)

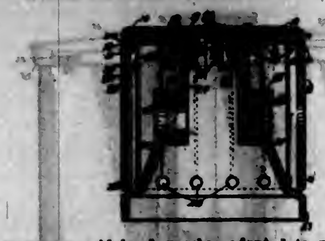


1. In a gun mounting for aircraft and aircraft defense guns, in combination, a fixed support, a gun mounted on said support for universal movement relatively thereto, a sighting device also mounted on said support for universal movement, and means connecting said gun and sighting device whereby angular movement of the gun about its axis will result in an exactly similar and equal movement of the sighting device.

1,398,689. PISTON FOR RECIPROCATORY ENGINES. STEPHEN D. HARROD, St. Louis, Mo. Filed Oct. 29, 1919. Serial No. 334,848. 5 Claims. (Cl. 74—108.)

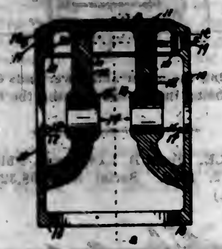
1. A piston comprising a body having integrally connected inner and outer portions, said outer portion pro-

vided with a series of ribs, a head member for said body, removably attached to said inner portion and locking



means on said head member adapted to prevent the unlocking of the holding means for the head member of said piston.

1,398,690. PISTON. STEPHEN D. HARROD, St. Louis, Mo. Filed Apr. 27, 1920. Serial No. 377,108. 7 Claims. (Cl. 74—108.)



2. A piston provided with a packing ring groove, which permits the packing ring within said groove to have its entire interior surface unobstructedly exposed to the contact of oil, whereby said ring is cooled and its tensional resistancy thereby retarded.

1,398,691. FRICTION SHOCK-ABSORBING MECHANISM. STACY B. HASELTINE, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed May 26, 1920. Serial No. 384,822. 4 Claims. (Cl. 213—64.)



1. In a friction shock absorbing mechanism, the combination with a friction shell, friction shoes coöperable therewith, and spring means to yieldingly resist relative movement between the shell and shoes; of a pressure-transmitting main wedge; a plurality of expansible auxiliary wedges interposed between said main wedge and the friction shoes and coöperable with both; and spring means coöperable directly with said auxiliary wedges and exerting radially inwardly directed pressure thereon to effect collapse of the auxiliary wedges upon removal of the actuating pressure.

1,398,692. FRICTION SHOCK-ABSORBING MECHANISM. STACY B. HASELTINE, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed May 26, 1920. Serial No. 384,826. 3 Claims. (Cl. 213—64.)

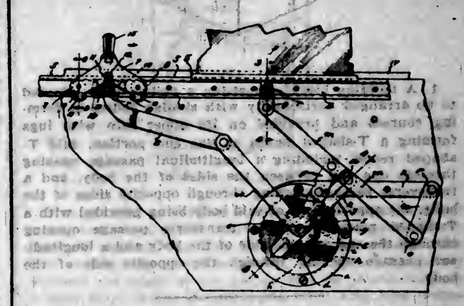
1. In a friction shock absorbing mechanism, the combination with a friction shell, spring resistance, and friction shoes coöperable with the shell; of a pressure-apply-

ing member; and oppositely extending toggle elements between said member and shoes, said toggle elements cross-



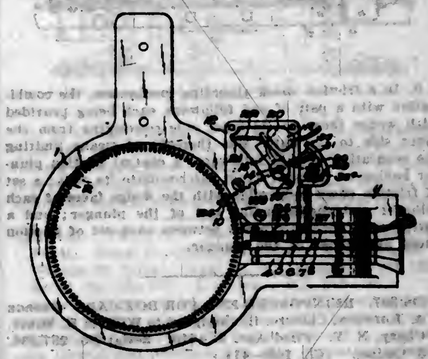
ing each other and each having bearing at one end on a shoe and at its other end on said member.

1,398,693. WINDOW-REGULATOR. HARRY E. HEINTZ, Detroit, Mich., assignor to Ternstedt Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 7, 1921. Serial No. 435,597. 21 Claims. (Cl. 261—4.)



1. In a window regulator, the combination of a frame, a window slidable vertically in the frame, a pair of toggle levers for lifting the window having a fixed pivot at one end of the toggle, a second pair of toggle arms by which the toggle levers may be straightened or broken and pivoted on the same fixed pivot, and operatively engaging the first toggle arms near their knee, and means for operating said second pair of toggle arms.

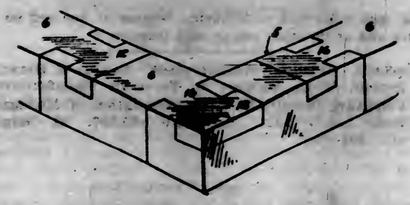
1,398,694. STOP-MOTION FOR KNITTING-MACHINES. EDSON S. HINELINE, Apponaug, R. I., assignor to Hineline Engineering Company, Providence, R. I., a Corporation of Rhode Island. Filed Mar. 15, 1920. Serial No. 365,940. 24 Claims. (Cl. 66—7.)



1. The combination with the needles of a knitting machine adapted for both rotary and reciprocating knit-

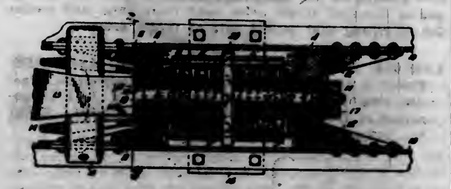
ting, and a member mounted to slide toward and from the needles, and having functioning relation with respect to the normal path of the needles during rotary knitting whereby it may cause functioning of an emergency device, but having non-functioning relation with respect thereto during reciprocating knitting.

1,398,695. WALL-BLOCK. JOHN W. HULL, San Antonio, Tex., assignor of one-fourth to Henry D. Mantin, San Antonio, Tex. Filed July 12, 1920. Serial No. 395,438. 2 Claims. (Cl. 72—33.)



1. A building block comprising a hollow body adapted to be arranged horizontally with similar bodies in forming courses and provided on its upper face with lugs forming a T-shaped recess at one end portion, said T-shaped recess including a longitudinal passage opening through one end between the sides of the body, and a transverse passage opening through opposite sides of the body, the opposite end of said body being provided with a T-shaped recess having a transverse passage opening through the end and one side of the body and a longitudinal passage opening through the opposite side of the body.

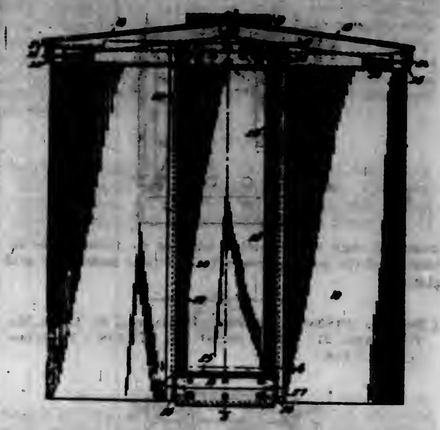
1,398,696. FRICTION SHOCK-ABSORBING MECHANISM. BRADLEY S. JOHNSON, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Dec. 18, 1920. Serial No. 431,745. 6 Claims. (Cl. 213—64.)



5. In a friction shock absorbing mechanism, the combination with a pair of end followers, each being provided with wedge faces on its inner side converging from the inner side to the outer side thereof; of means limiting the separation of said followers; a central friction plunger having an integral flange intermediate its ends; a set of friction shoes coöperable with the wedge faces of each follower and corresponding end of the plunger; and a spring resistance interposed between each set of friction shoes and flange of the plunger.

1,398,697. REINFORCED END FOR BOX-CARS. GEORGE A. JOHNSON, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Apr. 8, 1919. Serial No. 287,296. 3 Claims. (Cl. 105—411.)

1. In a box car having an end wall comprised of wood sheathing and posts, the combination with commercial shaped reinforcing beams secured to the outer side of said wall, of upper and lower tie plates rigidly secured



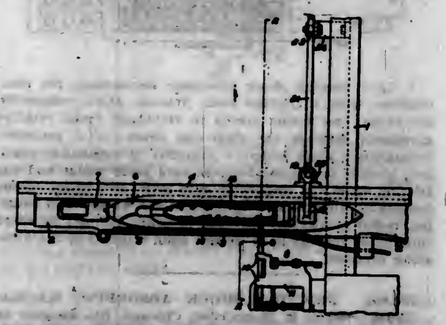
to and connecting the upper and lower ends of said beams, said tie plates being interposed between the beams and the sheathing.

1,398,698. TILE. JOHN B. LANCASTER, Philadelphia, Pa. Filed July 2, 1919. Serial No. 306,322. 1 Claim. (Cl. 72—21.)



As an improved article of manufacture, a tile having a series of tapered grooves, embedded in the back thereof, and extending longitudinally from one end to the other, said grooves being inclined in opposite directions in each half section of said tile, and said tile being thicker at its body portion than at its longitudinal outer edges.

1,398,699. SHUTTLE-POSITIONER. OVIDE LEGENDRE, Fitchburg, Mass., assignor to Thomas C. Sheldon, Fitchburg, Mass. Filed Nov. 15, 1919. Serial No. 338,204. 18 Claims. (Cl. 139—35.)



1. In a loom, the combination with a shuttle, of a shuttle box therefor, and means operable independently of the movement of said shuttle automatically to depress said shuttle to its operative position in said box.

1,398,700. NON-COLLAPSIBLE TIRE. JAMES B. LYNCH, Syracuse, N. Y. Filed June 14, 1921. Serial No. 477,875. 5 Claims. (Cl. 152—10.)



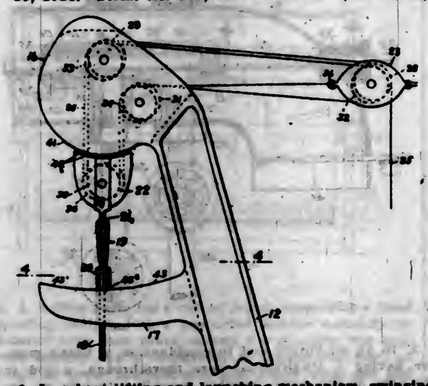
1. A non-collapsible vehicle tire including an inner tube, a shoe covering said tube and having an annular tread rib, the said rib being provided with similar integral laterally extending margins for providing similar oppositely facing annular recesses, and a spring-metal casing forming a protecting envelop for said shoe composed of similar circular sections, the peripheral margins of said sections being rolled for forming beads which are received in said recesses and which resiliently support the external lateral margins of the tread rib and prevent collapsing of the shoe.

1,398,701. ELASTIC STEP-MAT. WARREN MACPHERSON, Cambridge, Mass. Filed Sept. 4, 1920. Serial No. 408,166. 2 Claims. (Cl. 280—166.)



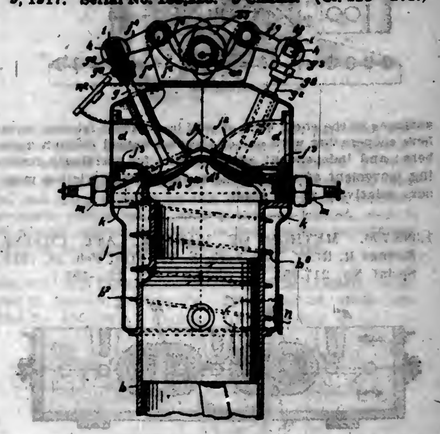
1. A step mat composed of an elastic body having a flat bottom face and spaced apart ribs integral with the body and projecting above the top face of the latter, said ribs and top face forming gutters extending from end to end of the body, and having bottoms which are inclined to permit water to flow from the mid-length to the opposite ends of the body between the ribs, the upper faces of said ribs collectively constituting an antifrictional tread above the body.

1,398,702. BOAT LIFTING AND LAUNCHING MECHANISM. DESIDERIO MAGGI, Philadelphia, Pa. Filed July 19, 1918. Serial No. 245,649. 2 Claims. (Cl. 9—22.)



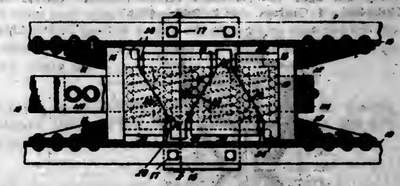
2. In a boat lifting and launching mechanism, swinging davits having curved lower surfaces at their outer ends, sheaves in the outer ends of the davits above the curved surfaces, a sheave block for each davit adapted to ride against these surfaces, friction reducing means on the blocks engaging the curved ends of the davits and ropes passing about the sheaves of the davits and of the blocks to operate them.

1,398,703. INTERNAL-COMBUSTION ENGINE. BOUDEWIJN B. NEUTEBOOM, Detroit, Mich. Filed Aug. 9, 1917. Serial No. 185,225. 5 Claims. (Cl. 123—173.)



5. A garment combining a skirt portion having opposed front panels, and a belt, a trouser section suspended from the belt beneath the skirt portion and attached to the free vertical edges of the panels, and attaching means whereby the edges of the panels may be joined to form a dress skirt in one instance, and other attaching means securing the lower portions of the panels around the limbs of the wearer below the knees with the panels coöperating, in a second instance, to form a pair of trousers, the side and back sections of the skirt portion retaining their skirt form.

1,398,704. FRICTION DRAFT-GEAR FOR RAILWAY-CARS. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed June 6, 1919. Serial No. 302,256. 11 Claims. (Cl. 213—64.)



1. In a draft rigging for railway cars, in combination, front and rear followers, a plurality of laterally-movable friction elements between said followers, a pair of lateral followers within and common to all of said friction elements and springs mounted between said lateral followers.

1,398,705. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed May 26, 1920. Serial No. 384,437. 4 Claims. (Cl. 213—64.)

1. In a friction shock absorbing mechanism, the combination with a single friction shell having interior longitudinally extending friction surfaces at the opposite ends thereof and provided also with oppositely arranged interior friction surfaces each inclined with respect to the axis of the shell; of a friction member at each end of

the shell and adapted with respect thereto and cooperating with the corresponding friction members, in addition thereto, a pair of friction members within the shell and each cooperating with one of said inclined friction



surfaces of the shell, each of said last named friction members cooperating with one of the first named friction members; and independent spring means for yieldingly resisting movement of each of the second named friction members relatively to the shell.

1,398,706. METHOD OF MAKING CAST CHAINS. ROBERT R. RUST, New York, N. Y. Filed Feb. 18, 1918. Serial No. 217,953. 3 Claims. (Cl. 22—197.)



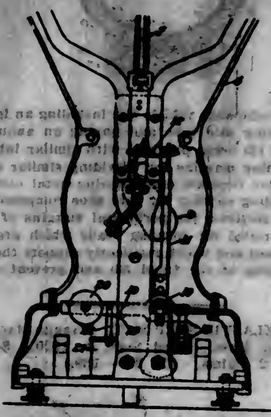
1. The herein-described process of making cast chains from a two-part sand mold, the halves of which are to be brought face to face to form the completed mold, which consists in forming the half molds with a single row with cavities in each half mold for a pair of links and a cavity between such cavities and merging therewith, in inserting in said central cavity a link already cast and a mold member having therein formed cavities corresponding to and completing the cavities for the pair of links, in bringing the halves of the mold together and in pouring the links.

1,398,707. CARBURETER. HARRY K. TARRINGTON, Chicago, Ill., assignor of one-half to Howard L. Babcock, Chicago, Ill. Filed Oct. 18, 1916. Serial No. 126,283. 4 Claims. (Cl. 261—49.)



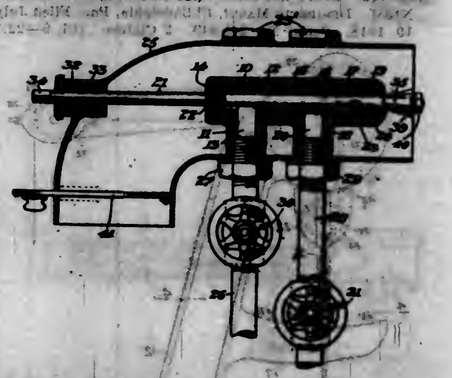
1. In a carureter, the combination of a mixing chamber, an air inlet passage and a fuel inlet passage, a throttle valve controlling the passage of mixture from the mixing chamber, a pivoted member having a passage therethrough and adapted to be moved to bring said passage into communication with the mixing chamber, a valve controlling the passage through said pivoted member, a fuel inlet passage leading to said pivoted member, a valve controlling said fuel inlet passage, a valve controlling the passage between the chamber and mixing passage, a piston slidable in said chamber to increase the velocity of discharge through said valve independently of the valve adjustment, and means responsive to differences of pressure between the inlet passage and mixing passage for operating said piston.

1,398,708. WEIGHING-SCALE. WILLIAM TIMSON, Birmingham, England, assignor to W. & T. Avery, Limited, Birmingham, England. Filed Nov. 15, 1920. Serial No. 424,269. 5 Claims. (Cl. 265—61.)



1. A pendulous weighing scale having in combination a two part compound lever, a scale pan connected to one part of said lever, a weight indicator connected to the other part of said lever, and linkage forming the aforesaid connection, the two parts of the said lever being adapted for independent cooperating motion when a load is violently applied to the scale pan.

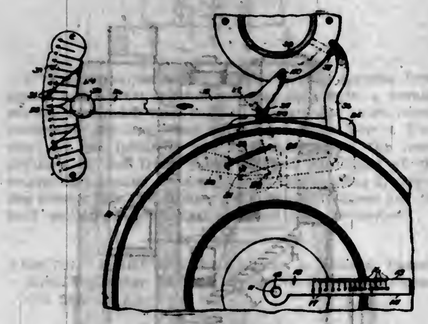
1,398,709. OIL-BURNER. JOSEPH T. WENSIULIS, New York, N. Y., assignor to Columbia Machine Works & Malleable Iron Co., Brooklyn, N. Y., a Corporation of New York. Filed Jan. 9, 1920. Serial No. 350,294. 3 Claims. (Cl. 158—78.)



2. In an oil burner and in combination, a nozzle member having a longitudinal bore therethrough, a rod in the bore of the nozzle member providing therein an annular oil discharge passage, a member connected to the said

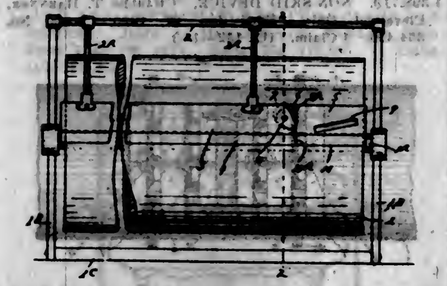
nozzle and providing therein an annular air discharge passage, the air passage being curved inwardly adjacent its orifice to cause the same to lie in substantially the same plane as the orifice of the oil passage, the said discharge passages having substantially coincident discharge orifices, and a deflector member journaled on the rod adjacent the discharge orifices of the said oil and air passages and adapted to be operated by the discharge of the oil and air therefrom.

1,398,710. INDICATOR OR MEASURING GAGE FOR DISK RECORDS. OTTO ROSENBAT, Chicago, Ill., assignor to Vitanola Talking Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 19, 1920. Serial No. 374,914. 5 Claims. (Cl. 192—116.)



1. An indicator or measuring gage for use with disk records for measuring or indicating the point of termination of the sound grooves on the record, in combination with brake or stop mechanism, and means cooperating with the said indicator or gage whereby the said mechanism may be set to correspondingly rendered active, the said means embodying a dial and pointer, said dial and indicating means having cooperating graduations thereon.

1,398,711. PAPER-CUTTER. FRANK J. ROSUKY, Detroit, Mich. Filed Sept. 27, 1920. Serial No. 413,159. 7 Claims. (Cl. 211—32.)



6. A cutting blade for a roll of paper comprising a fixed supporting section and a supported section normally in alinement with each other, means for swinging the supported section out of alinement to expose the edge of the roll of paper therebetween and means upon the end of the supporting section for maintaining alinement between the sections.

1,398,712. POWDER-PUFF. FRANK J. ROSUKY, Detroit, Mich. Filed Feb. 8, 1921. Serial No. 442,072. 6 Claims. (Cl. 132—86.)



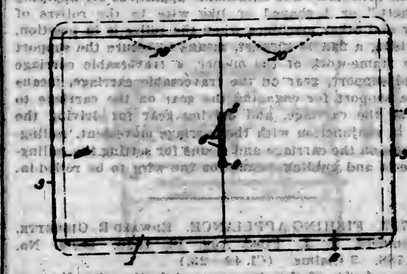
2. A powder puff having a facing of soft material, and having a fabric lining for its rear face, and a segmental pocket secured to said lining, the peripheral portion of said facing being rolled to marginally cover said rear face, and being stitched to said lining forming a circular depression within which said pocket is located, and a disk shaped mirror insertible in said pocket and fitting snugly in said depression when so inserted.

1,398,713. FILLING STOP-MOTION FOR LOOMS. HARVEY O. BROWN, Easton, Pa. Filed Aug. 24, 1920. Serial No. 405,606. 7 Claims. (Cl. 139—84.)



1. In an automatic loom stopping mechanism, a lay, feeler fingers adapted to resiliently bear against a filler as the lay beats up, a dagger carried by said lay and adapted to be elevated under the control of said feeler fingers when said fingers are released by the breaking of said filler, a breast beam, a knock-off lever attached to the upper face of the said breast beam and having connections whereby it is adapted to control the clutch of said loom, said knock-off lever being so positioned as to be interposed in the path of said dagger when the same is elevated and to clear it when the said feeler fingers are bearing on a filler, a shield lifter forwardly projecting from the lay and an inclined shield pivotally attached to said knock-off mechanism and adapted to receive the thrust of said dagger, said shield having a cam adapted to be engaged by the said shield lifter and to cause the shield to be raised as the lay beats up.

1,398,714. WINDSHIELD-COVER. ALBERT E. CANBY, Hubbard, Ohio. Filed Oct. 30, 1920. Serial No. 420,677. 3 Claims. (Cl. 296—84.)



1. A cover for automobile windshields, comprising a pair of complemental plates adapted to be mounted in hori-

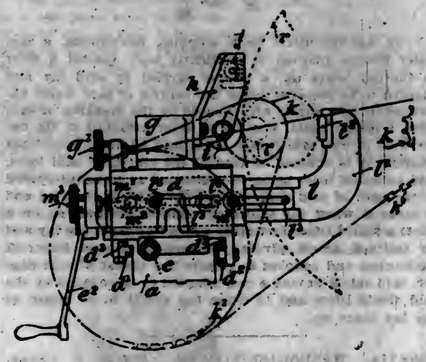
sentially-alined vision-obstructing relation to a windshield, each plate having a hook formed at its outer lateral edge for partially embracing the end portion of the frame of the windshield when the opposite edges of said plates occupy meeting relation, and means for interlocking said meeting edges.

1,398,715. DIRECTION-INDICATOR. John Cupar, Nelta, Ohio. Filed June 18, 1921. Serial No. 478,759. 1 Claim. (Cl. 116—26.)



In a device of the class described, the combination with the steering mechanism of a vehicle, of a supporting bar, opposed gear trains carried by the bar, a signaling means mounted at each end of the bar and adapted to be operated by the gear trains, and a pair of toothed segments radiating from the steering mechanism in such position as to alternately operate said gear trains when the steering mechanism is rotated.

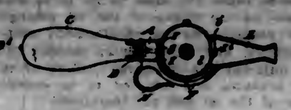
1,398,716. MEANS FOR APPLYING GARNETT OR LIKE WIRE TO ROLLERS OR CYLINDRICAL SURFACES. James Dearnaley, Oldham, England. Filed Mar. 9, 1920. Serial No. 364,558. 5 Claims. (Cl. 140—97.)



1. An attachable and detachable apparatus for applying "Garnett" or L-shaped or like wire to the rollers of opener and other machines when the roller is in position, comprising a fixable support, means to secure the support to the frame-work of the opener, a traversable carriage on said support, gear on the traversable carriage, means on the support for engaging the gear on the carriage to traverse the carriage, and driving gear for driving the roller in conjunction with the carriage movement, rolling-in wheels on the carriage and means for setting the rolling-in wheels and guiding means for the wire to be rolled-in.

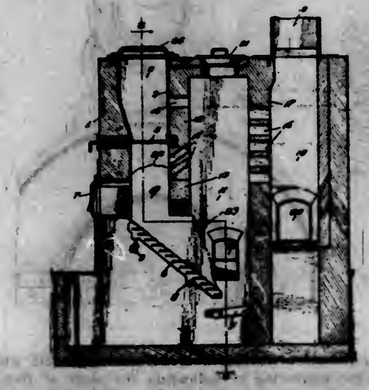
1,398,717. FISHING APPLIANCE. Edward R. Gillette, Bloomfield, N. J. Filed Aug. 16, 1920. Serial No. 403,788. 3 Claims. (Cl. 43—23.)

1. In a device of the character set forth, a handle having transverse grooves at its end, a tubular line-guide in axial alinement with said handle and having notches in its sides, a curved bar connecting said handle and guide, a reel having base pillars received in such grooves and a



pillar engaged in such notches, and a locking-plate arranged to clamp said base pillars to said handle.

1,398,718. INCINERATOR. Joseph Goess, Chicago, Ill. Filed Dec. 13, 1917. Serial No. 206,870. 9 Claims. (Cl. 110—17.)



2. In a furnace of the class described, an inclined grate, a substantially vertical distillation chamber disposed above a portion of the grate, a drying chamber disposed above the distillation chamber, and a combustion chamber disposed above another portion of the grate and separated from both of the aforesaid chambers by a partition wall terminating at a distance above the inclined grate, the said partition wall being equipped with ports leading respectively from the combustion chamber to the other two chambers.

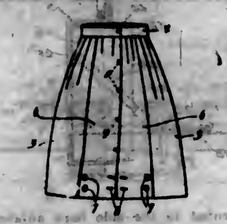
1,398,719. NON-SKID DEVICE. Charles T. Hannner, Cleveland, Ohio. Filed Jan. 27, 1920. Serial No. 354,495. 1 Claim. (Cl. 152—14.)



A non-skid device comprising a single unit consisting of four distinctively formed members, each member of said unit being a rectangular plate curved to conform to the curvature of a tire, each plate having a double row of lugs extending transversely thereof, the entire series of lugs of said unit having radial faces on one side thereof, and beveled faces upon the opposite side of said series, means flexibly connecting said members transversely and

longitudinally, and flexible elements attached to the lugs at the respective outer corners of said members for connecting the unit to the tire.

1,398,720. GARMENT. Madeline M. Hershey, Los Angeles, Calif. Filed Aug. 19, 1920. Serial No. 404,569. 5 Claims. (Cl. 2—134.)



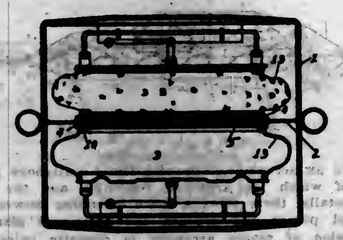
1. A garment combining a skirt having opposed front panels and a back section attached to a belt, a trouser portion suspended from the belt beneath the skirt, means connecting the free edges of the panels to form a dress skirt in one instance, and means attaching the lower portions of the front panels around the limbs of the wearer in a second instance, the panels forming fronts of the trouser legs and trouser cuffs below the knees and the back section maintaining its normal skirt formation.

1,398,721. FISHING-REEL. Glenn A. Higbee, Detroit, Mich. Filed Mar. 26, 1921. Serial No. 456,940. 5 Claims. (Cl. 242—84.5.)



2. A fishing reel comprising a frame, a drum revolubly mounted in said frame, means for rotating said drum, a fish line wound upon said drum, and a rotative member carried by the frame driven in common with the drum for tensioning the portion of the line adjacent the drum.

1,398,722. DETACHABLE DIAPHRAGM FOR GASMETERS. John A. Himmelspach, Saginaw, Mich. Filed June 20, 1921. Serial No. 479,027. 1 Claim. (Cl. 73—1.)

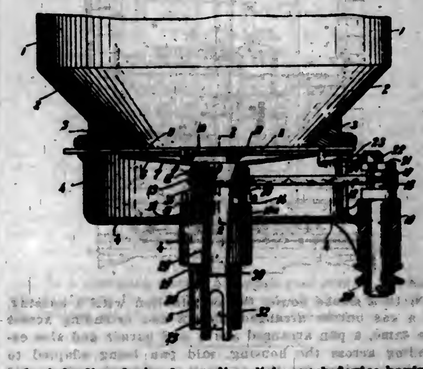


In a gas meter including a partition and flexible bellows, means removably securing said bellows to said partition, said means comprising a base ring having a channel formed therein, said base ring secured to said partition, a diaphragm ring registering with said base ring and adapted to be secured thereto, said diaphragm ring having a laterally extending flange and an axially extending bead, the edge of said bellows secured to said bead, and means for removably securing said diaphragm ring to said base ring, for the purposes set forth.

1,398,723. METHOD OF LEACHING ORES AND THE LIKE. John W. Hornsby, Summit, N. J. Filed Nov. 13, 1917. Serial No. 201,775. 9 Claims. (Cl. 25—21.)

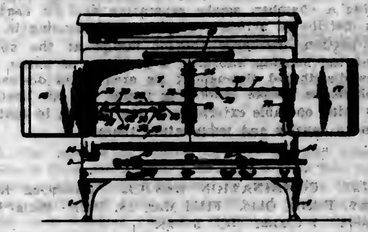
9. The method of leaching ores and the like which comprises, subjecting the material successively to the leaching action of separate bodies of liquid, maintaining suspension of the material in the separate bodies of liquid by vigorous agitation and permitting the material to settle after passing one zone of agitation and before entering the succeeding zone.

1,398,724. FEEDING DEVICE FOR SEALING-DISKS. Carl Walker Kendall, Edgewater Heights, N. J., assignor to Columbia Machine & Stopper Co. Inc., New York, N. Y., a Corporation of New York. Filed Feb. 8, 1919. Serial No. 275,765. 9 Claims. (Cl. 113—113.)



1. A feeding device for sealing disks, such device having, in combination, a hopper having a bottom provided with an outlet, and an elongated agitating member movable transversely of its length within said hopper adjacent to said outlet and spaced from said bottom a distance greater than the thickness and less than the width of a sealing disk, and means for moving said elongated agitating member transversely to its length.

1,398,725. CONVERTIBLE STOVE-OVEN. Joseph Knebel, Cleveland, Ohio, assignor to Herman J. Tronkamp, Cleveland, Ohio. Filed Aug. 9, 1919. Serial No. 316,854. 13 Claims. (Cl. 126—337.)

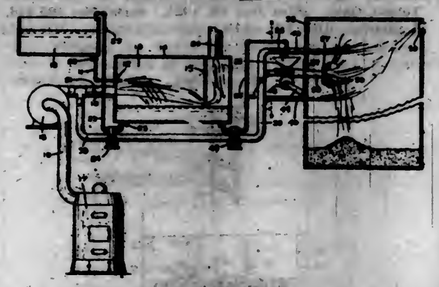


1. A device of the character described comprising a pair of shelves each provided a given distance from one end with a pair of eyes, and a bracket provided at each

[illegible] gate of the [illegible] [illegible] [illegible]

tem, and finally subjecting the remainder of the fumes to treatment at said station to further separate condensable elements from said fumes.

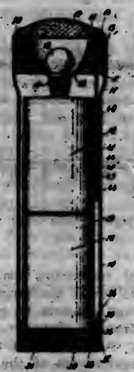
1,398,735. METHOD OF DESICCATING FLUID MIXTURES. JOHN C. MACLACHLAN, St. Paul, Minn., assignor to Standard Food Products Company, St. Paul, Minn., a Corporation of Delaware. Filed Aug. 21, 1918, Serial No. 250,997. Renewed Feb. 2, 1921. Serial No. 441,995. 9 Claims. (Cl. 99—5.)



1. The process of reducing heavy liquid or semi-liquid substances to dry finely divided form, which consists in projecting the same at high velocity within a space containing a hot gaseous drying material, and in intercepting and violently beating the same in the presence of said hot gaseous drying medium, by means of blades or striking members that are moved positively and at high velocity.

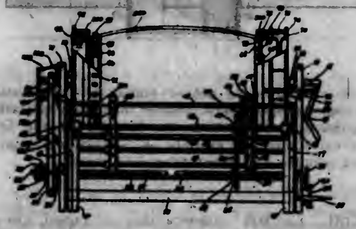
6. The process of producing from milk a dry granular divided substance which consists in delivering the milk in a spray or shower through hot air to reduce the same to a heavy viscous consistency and thereafter projecting such heavy condensed substance at high velocity within a space containing hot gaseous drying material and intercepting and violently beating the same in the presence of said hot gaseous drying medium to complete the reduction of the substance to a dry divided granular form.

1,398,736. HANDLAMP. ARTHUR P. PAINE, New Haven, Conn., assignor to Winchester Repeating Arms Company, New Haven, Conn., a Corporation of Connecticut. Filed Apr. 2, 1920. Serial No. 370,643. 11 Claims. (Cl. 240—8.5.)



1. A hand lamp comprising a casing adapted to contain a battery and provided at each end with a threaded portion of reduced diameter, a reflector mounted upon one end of the casing, a lamp carried by the reflector, a lens mounted upon the outer edge of the reflector, a ring adapted to be screwed upon the corresponding reduced portion of the casing for clamping the lens and reflector in place, and a cap adapted to be screwed upon the reduced portion at the other end of the casing to hold the battery in place therein, said ring and said cap being formed with smooth outer surfaces adapted to lie flush with the exterior of the casing when the ring and cap are in place thereon.

1,398,737. BARREL-ASSEMBLING MACHINE. FRANK PODNIAD, Wyandotte, Mich. Filed Aug. 11, 1920. Serial No. 402,781. 1 Claim. (Cl. 147—2.)



The combination in a barrel assembling machine having rotatable drums, of means for supporting hoops thereon, belt driven means for conveying staves to the drum, and means for securing staves upon the drums, said means consisting of spring controlled notched gripping dogs radially disposed within the drums, their notches engaging the ends of the staves and means for shifting each hook in succession to admit the end of a stave.

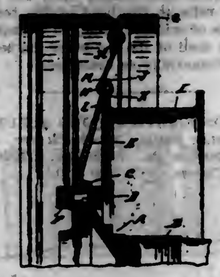
1,398,738. METALLIC VEHICLE-WHEEL. ALDEN L. PUTNAM, Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 28, 1919. Serial No. 293,195. 7 Claims. (Cl. 301—6.)



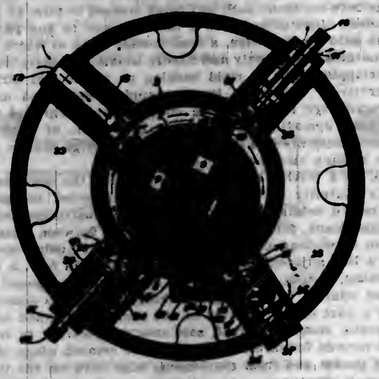
7. In a vehicle wheel, the combination with a rim and a two part hub, of a dished disk peripherally secured to said rim and clamped between the parts of said hub, in close proximity to the plane of impact established by said rim.

1,398,739. VEHICLE-WHEEL. ALDEN L. PUTNAM, Detroit, Mich., assignor to Detroit Pressed Steel Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 15, 1920. Serial No. 374,172. 8 Claims. (Cl. 301—6.)

1. The combination with a wheel of the disk type, of a brake drum for said wheel having an outwardly projecting radial flange with an annular shoulder thereon, said flange being parallel to a portion of the disk, and a corresponding shoulder on said disk for engaging the shoulder on said flange and centering the drum with the axis of the wheel.



1,398,740. POWER-TRANSMISSION DEVICE. WILLIAM L. RINEHART, St. Louis, Mo. Filed July 2, 1919. Serial No. 308,282. 4 Claims. (Cl. 192—58.)



1. A power transmission device comprising a rotary drive shaft, a rotary driven shaft, a rotary pump through which motion is transmitted from said drive shaft to said driven shaft, said rotary pump having a rotary piston fixed to said drive shaft, and a rotary cylinder fixed to said driven shaft, said rotary piston being arranged within the said rotary cylinder and spaced therefrom to provide a space wherein the fluid is compressed to yieldingly transmit movement from said drive member to said driven member, said rotary cylinder being provided with a discharge port which communicates with the fluid compression chamber and also with the atmosphere, and a speed changing valve operating in said port comprising a tapering valve seat, a ball-valve, a spring tending to keep the said ball seated, and an operating rod coöperating with said ball-valve whereby the said ball may be manipulated to vary the discharge of fluid to the atmosphere.

1,398,741. GRINDER OR SHARPENER FOR KNIVES, &c. JOHN MITCHELL ROSS, Philadelphia, Pa. Filed Sept. 28, 1920. Serial No. 412,268. 4 Claims. (Cl. 51—210.)

1. In a grinding or sharpening device of the character stated, a hollow body of grinding or sharpening material, a loose disk in the hollow of said body having its periphery



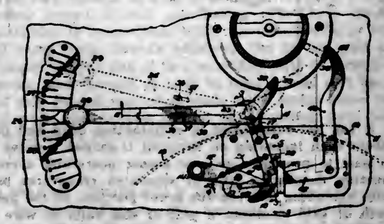
engaging frictionally the inner periphery of said body, and means for supporting said disk and consequently said body.

1,398,742. SOUND-REPRODUCING MACHINE. HENRY T. SCHIFF, Chicago, Ill., assignor to Vitanola Talking Machine Co., a Corporation of Illinois. Filed Feb. 14, 1920. Serial No. 358,702. 4 Claims. (Cl. 187—27.)



1. A device of the character described embodying a passage for sound waves, a sound modulator constructed entirely of flexible fibrous material, and having a recess in one edge, and a handle having a deflected extremity, the said deflected extremity of the handle being seated in th body of the modulator and extending substantially thereacross, the portion of the handle adjacent said deflected end being seated in the said recess.

1,398,743. BRAKE OR STOP DEVICE FOR SOUND-REPRODUCING MACHINES. SAMUEL L. SCHIFF, Chicago, Ill., assignor to Vitanola Talking Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 19, 1920. Serial No. 374,881. 21 Claims. (Cl. 192—116.)



1. In combination with a rotatable part of a phonograph or the like, a pivotally mounted brake therefor, means tending normally to render the brake effective, a latch adapted to coöperate with the brake for maintaining the brake ineffective, a tripping element for shifting the latch to release the brake to permit the latter to become effective, means operatively related to the tone arm for actuating

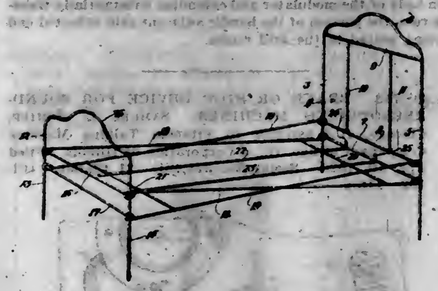
the tripping element, and the feature for putting the tripping element to vary the times of extraction of the latch by the said tripping element with respect to the degree of movement of the tone arm, the said latch being operatively connected with the said indicator through the medium of the said tripping element.

1,398,744. CABINET. JOHN F. BOWLANDER, Chicago, Ill. Filed Jan. 6, 1921. Serial No. 435,388. 7 Claims. (Cl. 211—41.)



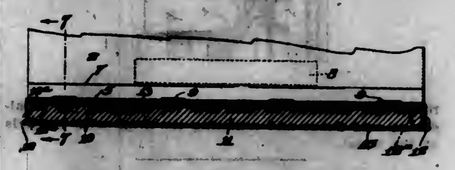
4. A cabinet comprising upright frame members at the ends and intermediate thereof, and tray-supporting members carried by said uprights, each of said tray-supporting members carried by said intermediate uprights having horizontally alined transverse arms adapted to support the opposed ends of adjacent trays, and each of the tray-supporting members carried by said end uprights having a single transverse arm cooperating with the oppositely extending transverse arm of an intermediate tray-supporting member to support a tray therebetween.

1,398,745. TOY BED. EMMETT COLEMAN SILVER, Chicago, Ill. Filed June 13, 1921. Serial No. 477,194. 3 Claims. (Cl. 5—9.)



1. A toy bed comprising in combination head and foot members each including an inverted U-shaped member of wire bent to provide a pair of corner posts and a cross connecting member, a pair of separated transverse bars of wire extending between the lower portions of the posts of each of said members, a pair of side rails of wire at each side of the bed each having one of its ends pivotally connected to the upper cross bar of one member and to the lower cross bar of the other member, whereby the side rails at each side of the bed extend in criss-cross fashion longitudinally of such side, a cross bar of wire extending between the lower end portions of the side rails adjacent to the head of the bed, a cross bar of wire extending between the lower end portions of the side rails adjacent to the foot of the bed, a pair of longitudinally extending slats of wire having their foot ends engaged to the cross bar between the side rails at the foot of the bed and their head ends resting upon the cross bar between the side rails at the head of the bed, and hooks on the head ends of said slats adapted to engage the lower cross bar of the head of the bed when the bed is in working position, substantially as described.

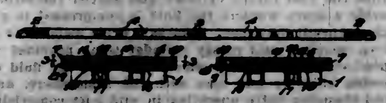
1,398,746. PHONOGRAPH-RECORD ALBUM. JACOB M. SMILEN, NATHAN SEGAL, JACOB CHAITT, and NATHAN RUDIN, Philadelphia, Pa. Filed Nov. 4, 1920. Serial No. 421,652. 7 Claims. (Cl. 369—20.)



1. In a talking machine record album, the combination with a plurality of two-leaf signatures composed of a pair of record-holding leaf pockets united to form a binding edge between them, each leaf being creased to form an independent hinge therefor on a line adjacent to and parallel with said binding edge, a semi-flexible strip to which said signatures are directly and fixedly bound, said strip having overlapping ends, a rigid backing to which said strip is operatively united by its overlapping ends, and means secured over the extending ends of said strip and rigid backing operating to reinforce the union of said last named elements and exclude dust and foreign matter from the binding elements.

5. In a talking machine record album, the combination of a plurality of pairs of leaves constructed to operate as record holding pockets, said leaves constructed from a single blank folded on a medial line between them to form a two-leaf signature, each leaf pocket being creased on a line adjacent to and parallel with said fold, a rigid backing, means to secure said signatures in spaced and fixed relation to said rigid backing, and means constituting a part of one member of the pocket leaf glued to the opposite member thereof, said means operating to retain the records forwardly away from the creased hinge of the leaf pocket and from the binding edge between the leaves of each signature.

1,398,747. WATER-HEATER. SAMUEL C. SMITH, Chicago, Ill., assignor of one-half to Loren L. Hoffmann, Chicago, Ill. Filed Jan. 30, 1920. Serial No. 352,805. 4 Claims. (Cl. 126—53.)



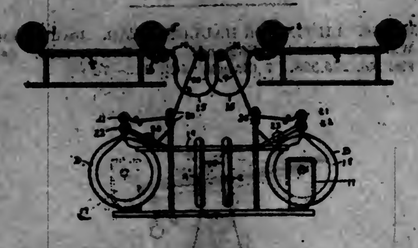
2. A water heating attachment, comprising a chamber consisting of two parts, a water inlet to said chamber and a water discharge leading therefrom, one of said parts having extensions projecting therefrom, a plurality of separated vertically disposed flues passing through said extensions and through apertures in alinement with the flues in the other part forming said chamber, the flues receiving heating gases to intensely heat water surrounding the projecting parts prior to the discharge thereof.

1,398,748. MEANS FOR SECURING RAILS OR BEAMS OR GIRDERS TO CORRUGATED SUPPORTS, WALLS OR FLOORS. DURGA DHARSEN SHARMA, Delhi, India. Filed Dec. 15, 1920. Serial No. 430,902. 4 Claims. (Cl. 238—271.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a concrete support having a hole for the reception of a plug into which a hold fast is driven, a corrugated wall of said hole presenting projections to said plug, and a reinforcement extending along the crests of the corrugations of said wall.

1,398,749. METHOD AND APPARATUS FOR MANUFACTURING TIRES. WILLIAM C. STEVENS, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 18, 1918. Serial No. 257,923. Renewed Apr. 28, 1921. Serial No. 464,894. 16 Claims. (Cl. 154—14.)



1. In the process of manufacturing tires, the steps of cutting fabric into a plurality of strips, building a continuous length from said strips, leading said length directly from said forming point to a core, and applying the fabric to the core.

1,398,750. AEROPLANE. JOHN H. STEWART, Cincinnati, Ohio. Filed Mar. 10, 1919. Serial No. 281,665. 17 Claims. (Cl. 244—15.)



1. The combination of an aeroplane comprising in part laterally extending planes with ailerons, driving motor and propeller and a separate helicopter construction rotatably mounted thereon, in fixed relation thereto, and means for converting said helicopter into a normal flying plane.

1,398,751. PROCESS FOR THE PRODUCTION OF SOOT-CARBON, RETORT-GRAPHITE, AND OTHER CARBON PRODUCTS FROM NATURAL GAS. IMRE SZARVASSY, Budapest, Hungary, and FRITZ HEINRICH RENNEL, Ratibor, Germany, assignors to Ratgerswerke Aktiengesellschaft, Berlin, Germany. Filed Feb. 14, 1921. Serial No. 444,965. 3 Claims. (Cl. 134—60.)



1. Process for the production of soot-carbon, retort graphite and other carbon products from natural gases, characterised in that the natural gas, which is continuously passed through the retorts, is decomposed by about 95%, and the natural gas which has not been completely decomposed is used in combination with the gases produced during the process of decomposition for heating the gas retorts.

1,398,752. TERRY OR LOOPED FABRIC. PERCIVAL TAYLOR, Bolton, England, assignor of one-half to James Johnson Hodgkinson and Pearson Limited, Manchester, Lancaster, England. Filed Mar. 31, 1919. Serial No. 286,314. 3 Claims. (Cl. 139—71.)

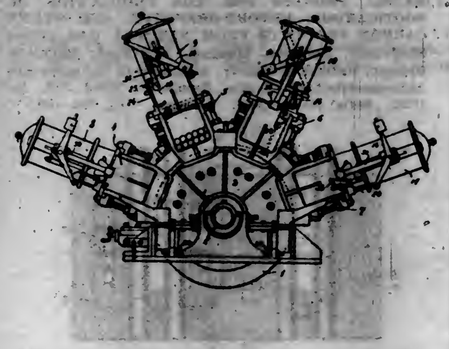


1. A terry-fabric composed of terry warp threads arranged in pairs, one thread of one pair being made to take over two threads of weft over which it forms a loop, the other thread of said pair taking over three threads of weft also to form a loop, while the two threads of the pair of terry warp threads adjoining the former pair are arranged so that one of this secondary pair of threads takes under two threads of weft to form a loop and the other of said second pair of threads takes under three threads of weft, also to form a loop, thus forming terry loops of two sizes on both sides of the fabric.

1,398,753. WOOD-PULP GRINDER. WILLIAM RUTGERS TIDMARSH, Bangor, Me., assignor of one-half to Union Iron Works, Bangor, Me., a Corporation of Maine. Filed Aug. 31, 1920. Serial No. 407,153. 6 Claims. (Cl. 83—76.)

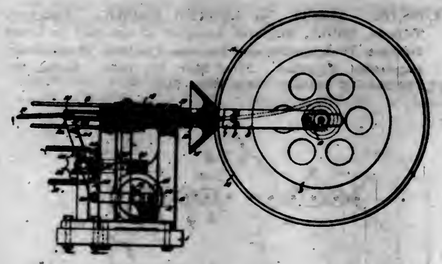
1. In a grinding machine the combination of a grinding element, a pocket adjacent the grinding element adapted to receive the material to be ground, a door on the pocket, a reciprocating pressure foot in said pocket for forcing the material to be ground against the grinding element.

means for automatically retracting the pressure foot when the pocket is ready for recharging, and means movable



with the pressure foot for opening the door as the pressure foot is retracted.

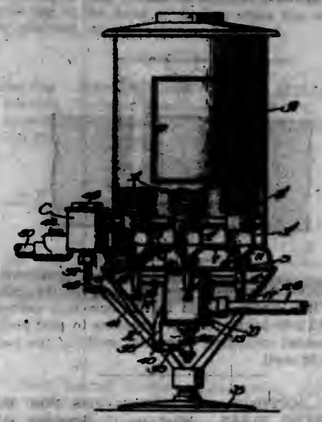
1,398,754. CHENILLE UNTWISTING AND WINDING MACHINE. GEORGE C. L. TISCH, Elizabeth, N. J. Filed June 11, 1920. Serial No. 388,103. 6 Claims. (Cl. 139—40.)



1. A chenille untwisting machine, comprising a drum for receiving chenille, a bracket carrying said drum, a tube directing the chenille to the drum, a cone carried by said tube, said tube being non-rotatable, means connected with the bracket for rotating the same, said drum being rotatably mounted in the bracket so as to rotate independently in a plane at right angles to the plane of rotation of the bracket, a beveled disk connected with said drum and engaging said cone whereby as the bracket and disk are rotated, said disk will frictionally engage the cone and be rotated in a plane at right angles to the rotation of the bracket and thereby rotate said drum, and means causing said disk to press against said cone.

1,398,755. WATER-HEATER. CLAUDE H. TOOMBS, Geneva, Ill., assignor to The Toombs Manufacturing Company, Geneva, Ill., a Corporation of Illinois. Filed May 24, 1919. Serial No. 299,645. 11 Claims. (Cl. 236—25.)

3. In a water heater, the combination of a plurality of water heating coils, burners for said coils, a gas chamber having a head provided with gas conduits leading to said burners and gas ports communicating with said conduits,



and a gas valve normally closing said ports and serving when closed to prohibit communication between the conduits.

1,398,756. LIFTING OR HAULING GEAR. JOAN HAIGH WALKER, Woolwich, England. Filed Dec. 6, 1918. Serial No. 265,528. 7 Claims. (Cl. 212—76.)

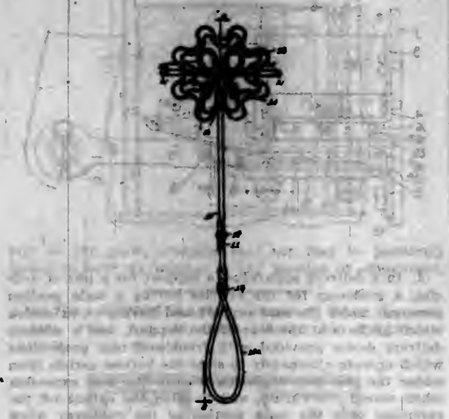


1. A load transfer apparatus including a substantially straight strut, supporting means for the strut, said strut being of such length and weight and the supporting means engaging the strut at such points that the central portion of the strut normally tends to sag downwardly under the force of gravity, a flexible member having its ends fixed to the underside of the ends of the strut, and a load supporting carriage movably mounted on said flexible member and movable along the same, whereby the weight of the load to be transported tends to buckle the strut upwardly at its central portion thereby counter-acting the force of gravity which tends to make the strut sag downwardly at the center, and enables a comparatively light weight strut to be used for transferring heavy loads over long spans.

1,398,757. COOKING DEVICE. KATE A. WHEGARDEN, Vibank, Saskatchewan, Canada. Filed Oct. 28, 1920. Serial No. 420,188. 3 Claims. (Cl. 53—5.)

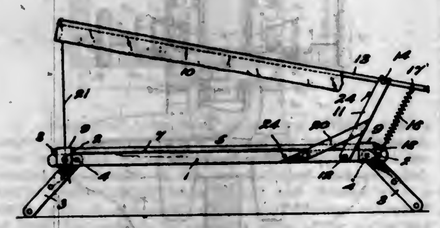
1. A cooking device of the class described including a body adapted to hold and give shape to the paste to be cooked and comprising inner and outer members in fixed

spaced relation to each other; and an ejector disposed between the inner and outer members of the body and



movable rearwardly therein to an inner inoperative position, or forward therein for ejecting the cooked article.

1,398,758. FOLDING COT. CHARLES DOUGLAS WINFIELD, Brooklyn, N. Y. Filed Sept. 18, 1920. Serial No. 411,199. 2 Claims. (Cl. 5—14.)



1. In a cot of the character described the combination with a frame of a pair of upright arms pivotally connected at their lower ends to the head portion of the frame, braces connecting said arms and frame, an adjustable canopy pivotally and detachably connected to the upper ends of said arms, resilient means located intermediate the pivotal and the end portion of the canopy and connecting said frame and canopy for yieldably holding said canopy in an adjusted position and means connecting the canopy and frame for adjusting the canopy and for preventing its accidental upward displacement.

1,398,759. LUBRICATING COMPOSITION. WILLIAM H. WOOD, Richmond, Calif. Filed Aug. 4, 1920. Serial No. 401,218. 1 Claim. (Cl. 87—9.)

A lubricating composition consisting of 16 parts of a grease or oil base and substantially one part each of carbonate of sodium and nitrate of ammonia separately occluded therein.

1,398,760. MEANS FOR CASTING POTTERY AND LIKE ARTICLES. BERNARD JAMES ALLEN, Blythe Bridge, England. Filed Aug. 25, 1919. Serial No. 319,527. 4 Claims. (Cl. 25—29.)



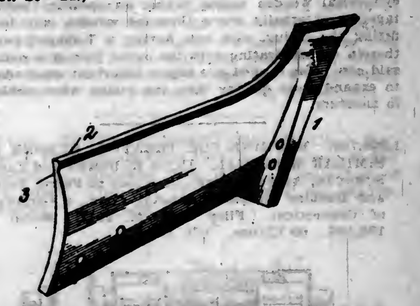
1. The combination with a vacuum chamber having internal tracks, of a porous mold located entirely within the chamber and movably mounted on said tracks.

1,398,761. ORTHODONTIC APPLIANCE. EDWARD H. ANGLE, Pasadena, Calif., and SPENCER R. ATKINSON, Atlanta, Ga. Filed June 15, 1921. Serial No. 477,824. 7 Claims. (Cl. 32—19.)



1. An orthodontic appliance comprising an anchorage device provided with an arch-bar sheath having a bore for the arch-bar and a key-way for a spline integrally carried by said arch-bar.

1,398,762. PLOW-POINT. STANLEY APGAR, High Bridge, N. J., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J., a Corporation of New Jersey. Filed June 17, 1920. Serial No. 389,670. 2 Claims. (Cl. 29—14.)

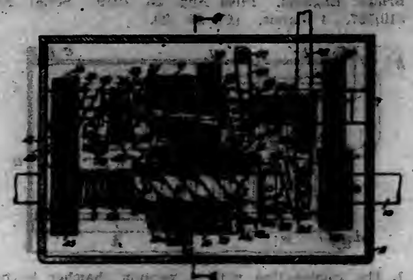


1. As an article of manufacture a blank for a plow share consisting of an alloy steel casting whereof the point has an excess of metal defined as a marginal bead or extension.

1,398,763. TRANSMISSION-GEAR. CLAUDE BEARENS, New York, N. Y. Filed Jan. 4, 1921. Serial No. 434,890. 6 Claims. (Cl. 74—59.)

1. A transmission gear including a drive shaft, a driven shaft, a shift gear assemblage adapted for direct engagement with the drive shaft for high speed drive, and yieldable to undue load resistance to disengage itself from the drive shaft, intermediate and low speed gear elements, adapted respectively to drive said shift assem-

binge, clutches to selectively bring into action said intermediate or low speed gear elements, and means responsive to a varying degree of shifting movement of said assemblage to successively bring into action the intermediate and low gear drive elements.

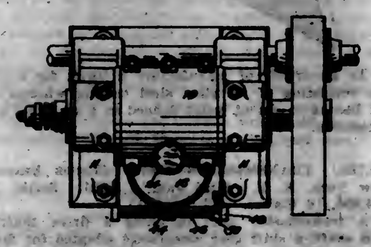


1,398,764. VALVE. Morris Blum, Los Angeles, Calif. Filed Dec. 15, 1920. Serial No. 430,846. 3 Claims. (Cl. 236—66.)



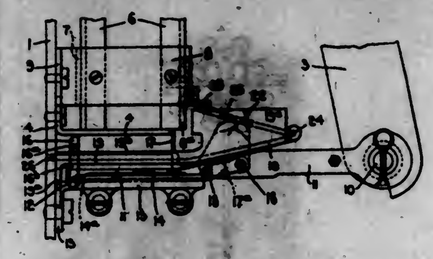
2. A valve comprising an internally screw threaded cylindrical wooden casing having an opening therein, a tapering externally screw threaded wooden core loosely fitting the casing, said core having a T-shaped passage therein communicating with the outlet pipe of a radiator, said core being formed of a highly absorbent wood adapted to expand more quickly than the casing when subjected to moisture.

1,398,765. MACHINE FOR TREATING RUBBER AND SIMILAR MATERIAL. David R. Bowen and Carl F. Schnuck, Ansonia, Conn., assignors to Farrel Foundry and Machine Company, Ansonia, Conn., a Corporation of Connecticut. Filed Sept. 25, 1917. Serial No. 193,186. 60 Claims. (Cl. 18—2.)



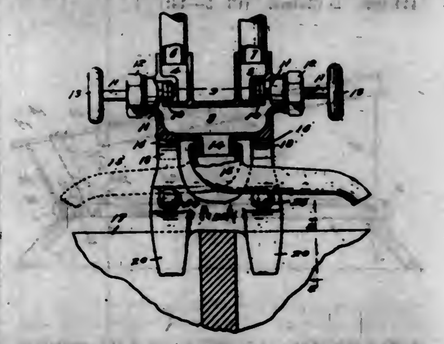
1. In a rubber mixer or like machine, a working chamber, and a plurality of auxiliary chambers or containers cooperating successively therewith.

1,398,766. COIN-FREED DELIVERY APPARATUS. Henry Brocklehurst, Goodmayes, England. Filed Dec. 27, 1920. Serial No. 433,403. 9 Claims. (Cl. 211—8.)



1. In a delivery apparatus, a support for a pile of articles, a guideway for the articles having a main portion arranged under the said support and having an extension which projects at the rear of the support, and a slidable delivery device provided with front and rear projections which operate alternately to slide the bottom article from under the pile and discharge it onto the said extension when moved rearwardly, and to slide the article off the extension onto the main portion of the guideway when moved forwardly, whereby the article thus moved forwardly is enabled to push a similar article, previously moved forwardly, from the guideway.

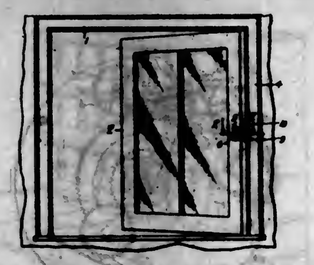
1,398,767. FAUCET AND ATTACHING BRACKET. Olof S. Burman, Minneapolis, Minn. Filed Feb. 10, 1921. Serial No. 443,882. 7 Claims. (Cl. 4—24.)



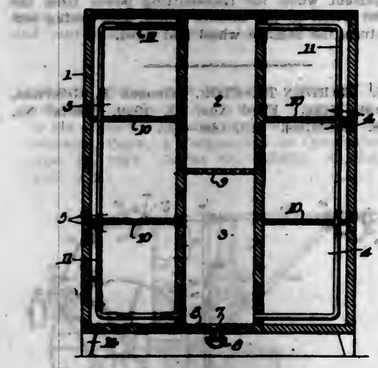
1. The combination with a faucet having a swinging nozzle, of a support, and an attaching bracket having pairs of clamping jaws engageable with the faucet on each side of the swinging nozzle and with the support.

1,398,768. CASEMENT-HOLDER. Walter L. Burtis, Tuckahoe, N. Y. Filed Sept. 13, 1919. Serial No. 324,376. 1 Claim. (Cl. 292—267.)

The combination with a frame having an opening therein and a hinged window connected to the frame, of a plate located inside the window positioned over said opening and having a slot therein registering with the opening, an arcuate bar connected to the window and movable through said slot and opening, said bar including connected upper and lower fingers, a beveled edge cam pivotally connected to and movable over the face of the plate, an operating handle on said cam for operating the cam, said cam adapted to be moved into locked engagement with one serrated face of the bar and to force the other serrated face into positive locked engagement with the wall of the slot in the plate, whereby said bar may be positively locked to hold the window in any position of adjustment.



1,398,769. REFRIGERATOR. Green O. Bush, Luverne, Ala. Filed Apr. 13, 1920. Serial No. 373,582. 1 Claim. (Cl. 62—58.)



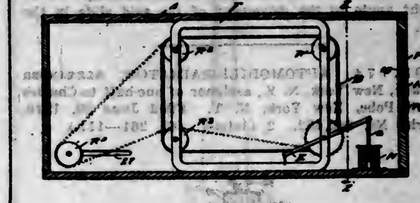
A refrigerator comprising a housing divided into a plurality of compartments, certain of which communicate with each other while others are distinct and unrelated, the bottom of the lowermost of said communicating compartments being sloped and formed with a drain, sets of horizontal alined cooling pipes connected at their free ends to the opposite sides of the upper and lower portions of the communicating compartments and being disposed adjacent the tops and bottoms of the upper and lower of said unrelated compartments, while the intermediate portions of the pipe extend through the unrelated compartments adjacent their outer walls and individual doors in one wall of the housing for each of said compartments.

1,398,770. TRANSFERRING OR EMBOSSING PAPER. Albert L. Clapp, Marblehead, Mass. Filed Nov. 15, 1919. Serial No. 338,949. 2 Claims. (Cl. 41—33.)

1. A transfer paper consisting of a paper base impregnated with a hygroscopic material and having an exterior layer or surface coating of a transfer material which may be transferred by heat and pressure to the object to be printed.

1,398,771. STREET-INDICATOR. William Lee Clarke, Jr., Tallahassee, Fla., assignor of one-half to John A. Grant, Tallahassee, Fla. Filed Jan. 31, 1920. Serial No. 355,993. 1 Claim. (Cl. 40—32.)

In a combination a street indicator comprising magnetic means for actuating the indicator, a controller including a casing and a lever, a contact on the casing disposed in the path of movement of the lever, a contact on the lever adapted to engage the casing contact and coacting therewith to form a switch, a switch on the lever,



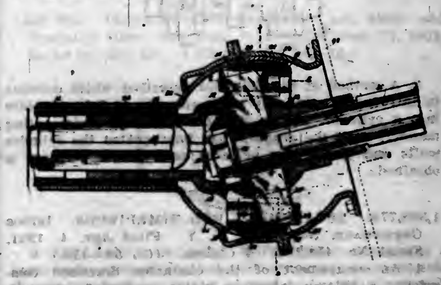
a circuit including said magnetic means and said switches, and a third switch connected in parallel in said circuit with the first two switches and in such manner that said switch can control the circuit independently of the first two switches.

1,398,772. POLISHING-BRUSH. Charles Holcomb Anderson, Oklahoma, Okla., assignor of one-third to Charles H. Anderson, one-third to James T. Hughes and one-third to Edgar L. Bosarth, Oklahoma, Okla. Filed Mar. 10, 1921. Serial No. 451,098. 1 Claim. (Cl. 15—16.)



A polishing brush including a flexible back formed of a material having sufficient resiliency to return to normal condition after flexing and provided with a section of wool bearing skin having its edge secured flatwise against the lower surface of the edge of the back, with its wool side outermost to form a polishing surface and with a fulness inside its said secured edge, and a compressible pad within said full portion of the skin as described.

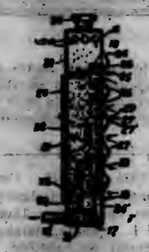
1,398,773. POWER-TRANSMITTING DEVICE. William J. Francke, Highland Park, N. J., assignor to The Francke Co., Highland Park, N. J., a Corporation of New Jersey. Filed Jan. 17, 1920. Serial No. 352,175. 6 Claims. (Cl. 64—96.)



4. A power transmitting device, comprising a universal joint having joint members movable one on the other on

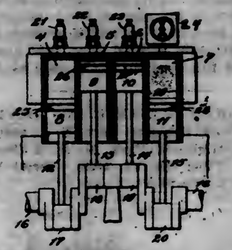
a common center, a radially disposed flexible coupling member secured at one end in one of the joint members, a slide engaged by the free end of the said coupling member, and a pivot mounted to turn in the other joint member and in which the said slide is movably mounted, the said pivot having its axis disposed radially and at a right angle to the movement of the said slide in the pivot.

1,398,774. AUTOMOBILE-RADIATOR. ALEXANDER PÜNZER, New York, N. Y., assignor of one-half to Charles Emil Pobe, New York, N. Y. Filed June 20, 1919. Serial No. 305,452. 2 Claims. (Cl. 261—111.)



1. In a device of the class set forth, a radiator having an open front for the free admission of air and having a water pan at its bottom, air and water baffles arranged in said open front, each water baffle embracing but spaced from the adjacent portions of two adjacent air baffles, and means to deliver the water in the form of a spray into the interior of the radiator in direct communication with the air admitted through the open front.

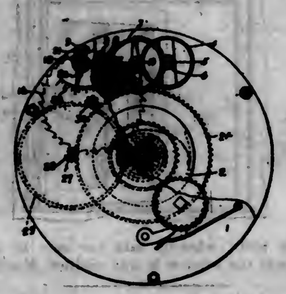
1,398,775. METHOD OF TREATING CYLINDERS AND PISTONS. OSCAR W. GERLEMAN, St. Louis, Mo. Filed Apr. 5, 1920. Serial No. 371,465. 2 Claims. (Cl. 91—68.)



1. A method of the character described which consists in introducing relatively small amounts of flake graphite into a cylinder, and moving the piston in reciprocating manner, until the graphite has impregnated the cylinder walls and piston ring surfaces until proper pressure is obtained.

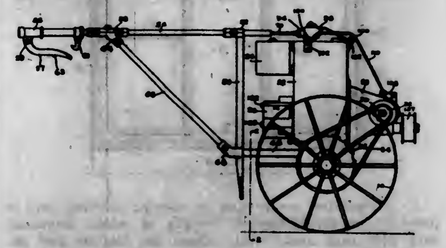
1,398,776. ESCAPEMENT FOR TIMEPIECES. ISIDOR GREENWALD, New York, N. Y. Filed Apr. 4, 1921. Serial No. 458,232. 6 Claims. (Cl. 58—116.)

1. An escapement of the character described comprising a balance wheel, a pinion connected with the balance wheel, a gear wheel meshing with said pinion, a coiled retractile spring connected with said gear wheel and positioned to normally hold said gear wheel in a given position, an escapement wheel and a pawl connected with said balance wheel, said pawl co-acting with



the escapement wheel for transmitting power from the escapement wheel to the balance wheel, said spring acting to return the balance wheel and pawl.

1,398,777. GARDEN-TRACTOR. GEORGE H. GUNTHER, St. Paul, Minn. Filed Apr. 12, 1920. Serial No. 373,138. 6 Claims. (Cl. 180—19.)

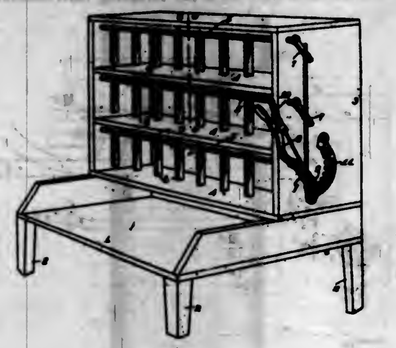


1. A garden tractor comprising a support, a motor mounted on said support, driving wheels upon which said support is mounted, driving connections between said motor and said driving wheels, a pair of rearwardly extending handle members to which said support is pivoted for horisontal oscillating movement, a hand engageable member movably mounted on one of said handle members, and a rod extending forwardly within said handle member from said hand engageable member and adapted to be slid forwardly and backwardly thereby, the forward end of said rod being attached to said support for imparting oscillating movement thereto.

1,398,778. SORTING-RACK. THOMAS HAWKINS, Derry, N. H., assignor to W. B. Severance, Manchester, N. H. Filed Mar. 18, 1921. Serial No. 453,200. 2 Claims. (Cl. 211—36.)

1. In a sorting rack, a plurality of shelves, crank shafts located above the shelves, depending crank fingers carried by the shafts and dividing the shelves into compartments, means for simultaneously swinging all of said fingers to inoperative position to facilitate the removal of the sorted matter from the shelves, said means

comprising crank arms carried by the shafts, a link compelling all of said crank arms to move together, a



lever forming a continuation of one of said crank arms and controlling the position of the link.

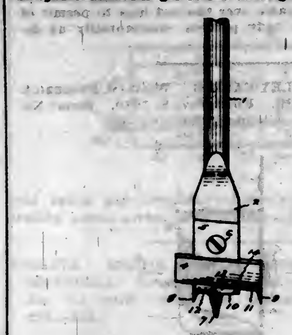
1,398,779. TOOL FOR BORING AND COUNTERBORING WOOD. LOUIS S. HAYDEN, Essex, Conn., assignor to the Connecticut Valley Manufacturing Company, Centerbrook, Conn., a Corporation of Connecticut. Filed Apr. 23, 1921. Serial No. 463,928. 5 Claims. (Cl. 145—125.)



2. A wood working tool comprising a boring bit having a spiral clearance groove, a twisted drill projected axially from the bit, a stop adjustable on the bit, said stop having a spiral slot in its wall, and a guiding and clamping screw extending through said slot in the stop into the bit whereby when said screw is loosened the stop may be rotated and adjusted longitudinally and when the screw is tightened the stop is clamped in the position to which it is adjusted with relation to the cutting ends of the bit and drill.

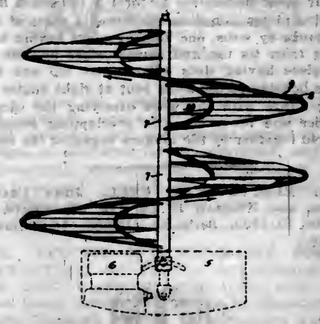
1,398,780. EXTENSION BORING-BIT. LOUIS S. HAYDEN, Essex, Conn., assignor to The Connecticut Valley Manufacturing Company, Centerbrook, Conn., a Corporation. Filed May 31, 1921. Serial No. 473,625. 3 Claims. (Cl. 145—127.)

2. A boring bit having a head with a feed screw extending from the axis of the head, a spur extending from the periphery of the head on one side with a recess between said spur and feed screw constituting an unconstricted throat between the feed screw and the spur, a cutting lip extending at substantially right angles to the axis from the feed screw to the periphery of the head on the opposite side of the axis from said spur, an oblique mortise in the head above said cutting lip, and an extension blade with a cutting lip clamped in said mortise, the angle of the land side of the cutting lip on the head being more blunt or steeper than the angle of the cutting lip of the blade above



said cutting lip on the head so as to direct chips formed by the head cutting lip over the joint between the blade cutting lip and the head cutting lip.

1,398,781. FLYING-MACHINE. CHARLES E. HICKS and WILLIAM G. HICKS, Mechanicsville, N. Y. Filed Feb. 24, 1921. Serial No. 447,460. 4 Claims. (Cl. 170—167.)



1. A helicopter including a helical-shaped body, comprising a plurality of lifting elements arranged in spaced relation to and above one another, the rear edge of one of said lifting element lying in a plane spaced from the forward edge of the next one, said lifting elements having their radial length greater than their segmental width.

1,398,782. PRICE-TICKET HOLDER. LEO HOPP and HERMANN HOPP, New York, N. Y. Filed Sept. 17, 1921. Serial No. 501,256. 1 Claim. (Cl. 40—16.)



A ticket holding device for flexible tickets comprising a main body portion provided with oppositely disposed side flanges in which a ticket is adapted to be slidably mounted, lugs formed integral with said main body portion, said lugs being formed on the ends thereof to prevent longitudinal movement of the ticket in the side flanges after the

mage has been published therein, and a cut-out portion formed in the body portion to permit of engagement of the ticket to flex the same over the end lugs to permit of its removal from the body portion, substantially as described.

1,398,783. PULLEY-CASING. WILLIAM FREDERICK KRUMMA, Chicago, Ill. Filed Nov. 8, 1919. Serial No. 336,569. 1 Claim. (Cl. 16—212.)



A sash pulley mounting formed from a single sheet of material and consisting of an attaching flange having screw openings at its ends and an elongated opening between the screw openings, said attaching flange having a flange extending around the elongated opening and having its edges bent upon themselves to form a thickened margin, and housing pieces joined to the opposite edges of the attaching flange by webs, one housing piece having tongues projecting from its top and bottom edges and the other housing piece having slots adjacent its top and bottom edges, the housing pieces being bent at right angles to the attaching flange with the webs overlying the same and their upper and lower edges in overlapping engagement and secured together by the tongues engaging the slots.

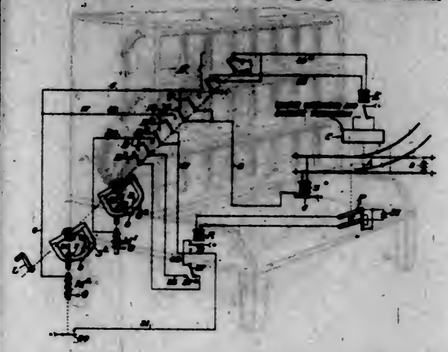
1,398,784. ELECTROLYTIC CELL. JOHN CRANSTON, Trenton, and WILLIAM D. LE BAR, Wyandotte, Mich. Filed Oct. 19, 1920. Serial No. 418,008. 15 Claims. (Cl. 204—58.)



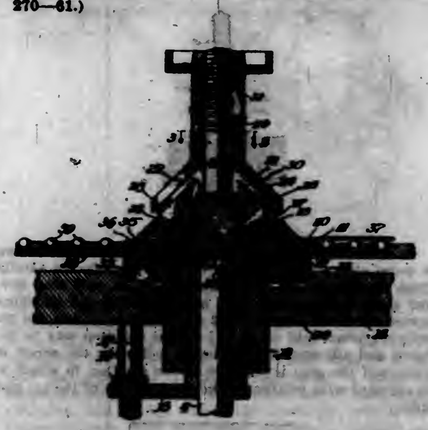
1. An electrode comprising a metallic plate, and a trough turned up on the lower end of the plate from the metal of the plate and adapted to receive liquid.

1,398,785. INTERLOCKING APPARATUS FOR THE CONTROL OF RAILWAY-SWITCHES. HAROLD S. LOOMIS, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Apr. 11, 1919. Serial No. 289,237. 15 Claims. (Cl. 246—135.)

1. In railway traffic controlling apparatus comprising a railway switch, a lever for the control thereof, electromagnetic means controlled by said switch and energized in one direction or the other according as the switch occupies one position or the other and deënergized when the switch occupies intermediate positions, and means controlled by said electromagnetic means for preventing completion of a movement of the lever until the switch has completed its movement in response to a partial movement of the lever; the combination with the foregoing instrumentalities of apparatus controlled by said electromagnetic means for preventing completion of the movement of the lever unless said electromagnetic means becomes deënergized due to movement of the switch away from its initial position.



1,398,786. EDGE-TURNING MACHINE. FRANK J. MCDONALD, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 7, 1918. Serial No. 220,929. 35 Claims. (Cl. 270—61.)



1. In a machine of the character described, a work table over which stock is freely movable and a single mechanism adapted to fold over an edge of the stock and simultaneously advance it.

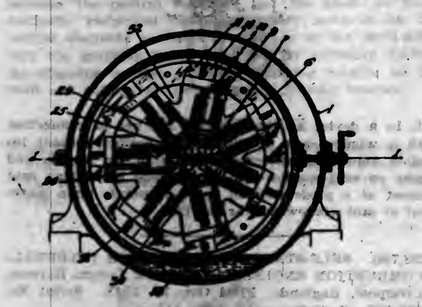
1,398,787. MILK-COOLER. CHARLES W. MCLEAN, Silvertown, N. Y. Filed Mar. 1, 1919. Serial No. 279,363. 1 Claim. (Cl. 31—14.)

The combination of a milk receptacle and a pouring spout in the nature of a funnel having a portion thereof depending into the receptacle and provided with a conduit bore and an annular series of discharge openings in its wall above the base, the depending portion being of slightly reduced diameter with respect to that of the receptacle, whereby to position its wall immediately adjacent to the



inner surface of the receptacle and thus discharge milk from its wall openings against the inner wall of the receptacle.

1,398,788. ROTARY PUMP OR MOTOR. WALDEMAR F. MAYER, Philadelphia, Pa., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J., a Corporation of New Jersey. Filed Nov. 12, 1919. Serial No. 337,420. 4 Claims. (Cl. 121—60.)



4. A fluid transmission comprising a housing, a cylinder body rotatable therein, a valve in the housing on which said body is rotatably mounted, hollow pistons operating in said cylinders, a stroke impelling ring encircling the body, disks secured in said ring to form closures for the pistons under the developed centrifugal force, an adjusting ring in which the impelling ring is rotatably mounted, means for adjusting said ring to change the rotative axis of the impelling ring relative to the body, the impelling ring permitting leakage therebeyond, and a collection reservoir in the housing for such leakage and from which fluid may be restored to the system.

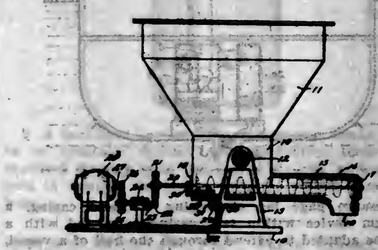
1,398,789. IGNITION CONTROL. VENCESLAUS F. MIKOLASEK, Lankin, N. D. Filed June 6, 1919. Serial No. 302,228. 4 Claims. (Cl. 175—183.)

1. A control or indicator for ignition circuits having spark gap terminals arranged in the spark plug including elements of the ignition circuit and independently movable circuit closers arranged in a grounding circuit for respective engagement with corresponding elements of



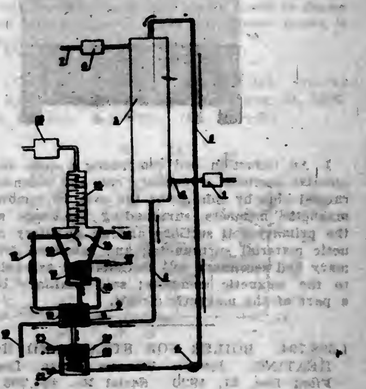
said spark gap terminals and having independent operating means arranged in juxtaposed co-axial relation.

1,398,790. METER FOR MEASURING GRANULAR MATERIAL. EUGENE OGUR, Jersey City, N. J. Filed Jan. 14, 1920. Serial No. 351,449. 6 Claims. (Cl. 221—102.)



1. In a meter for measuring material, a pivotally mounted container, means for discharging the material from said container, said means being caused to be operated upon a movement of the container, and means for automatically discontinuing the discharge of the material from said container when the material in the same is reduced to a predetermined point.

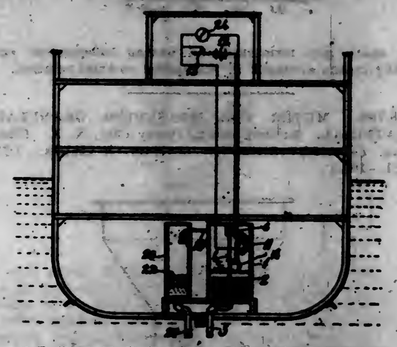
1,398,791. PROCESS AND APPARATUS FOR THE MANUFACTURE OF LIQUID SULFUROUS ACID FROM DILUTE SULFUROUS-ACID GAS. PAUL PASCAL, Paris, France, assignor to La Manufacture de Produits Chimiques du Nord, Etablissements Kuhlmann, Paris, France. Filed Jan. 9, 1920. Serial No. 350,803. 4 Claims. (Cl. 23—1.)



1. In the process for the manufacture of liquid sulfurous acid from dilute gases and more particularly

from the gas derived from pyrite furnaces, in which the gases are brought into contact at a low temperature with a solvent and the sulfur dioxid is separated from the said solvent by heating, the improvement which consists in the use as solvent of monanthracenic heavy oil.

1,398,792. PRESSURE-GAGE LOG. JOSUA GABRIEL PAULIN, Stockholm, Sweden. Filed Apr. 10, 1918. Serial No. 227,799. 5 Claims. (Cl. 177—351.)



1. Pressure gage log comprising a closed casing, a diaphragm device within said casing connected with a Pitot-tube adapted to extend through the hull of a vessel, another tube for transmitting to the interior of said casing the hydrostatic pressure existing at the mouth of the said Pitot-tube, a rheostat in said casing, controlled by said diaphragm device, an electric circuit controlled by said rheostat, and electrically operated indicating instruments in said circuit.

1,398,793. INDUCTION-COIL. GLEN PERLINSKI, Mohawk, N. Y. Filed Oct. 17, 1919. Serial No. 331,414. 2 Claims. (Cl. 175—359.)



1. An induction coil comprising a core and alternate annular sections of primary coil and secondary coil arranged side by side about the core, in combination with magnetic members surrounding the core adjacent to the primary coil sections and an auxiliary coil of magnetic material surrounding and insulated from the primary and secondary coil sections and extending adjacent to the magnetic members; said auxiliary coil forming a part of the magnetic circuit.

1,398,794. BOILER FOR STEAM AND HOT-WATER HEATING. JOSEPH WARREN FIFER, Lowell, Mass. Filed Dec. 31, 1920. Serial No. 434,208. 1 Claim. (Cl. 122—87.)

A house heating boiler having a fire chamber provided with recesses at the bottom thereof and with a transverse water containing division adapted to segregate the water therein from the circuit of the house, and comprising a series of spaced water-tubes running from the top of



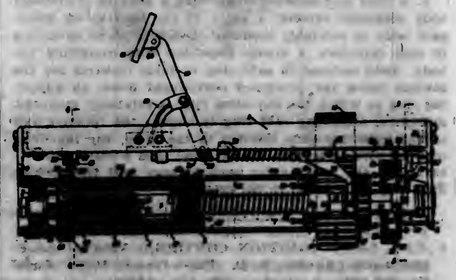
said chamber downward and connected at their lower ends to a horizontal water-tube having closed ends, said closed ends being secured in said recesses to prevent lateral displacement.

1,398,795. SASH-RETAINER. JACOB A. PITTENGER, Millburn, N. J. Filed Aug. 31, 1920. Serial No. 407,150. 5 Claims. (Cl. 292—75.)



1. In a device as characterized for use in connection with a window-sash or the like, a flexible element inflexibly supported at certain points in its length, and means on said window-sash or the like for flexing said element at a predetermined point or points upon movement of said window-sash or the like.

1,398,796. SELF-STARTING DEVICE FOR INTERNAL-COMBUSTION ENGINES. FREDERICK LIONEL RAPSON, Liverpool, England. Filed Oct. 16, 1918. Serial No. 258,426. 6 Claims. (Cl. 185—41.)



1. A mechanical engine starter comprising, a gear connected with the crank shaft of the engine, a main shaft extending parallel with the axis of the gear, a runner

block having screw threaded engagement with the shaft, spring means cooperating with the runner block to cause it to rotate the shaft, means to connect the shaft and gear, and means thrown into action by the movement of the runner block and driven by said gear to place the spring means under tension.

1,398,797. IGNITION SPARKING PLUG FOR INTERNAL-COMBUSTION ENGINES. FREDERICK LIONEL RAPSON, Liverpool, England. Filed Oct. 16, 1918. Serial No. 258,428. 5 Claims. (Cl. 123—169.)



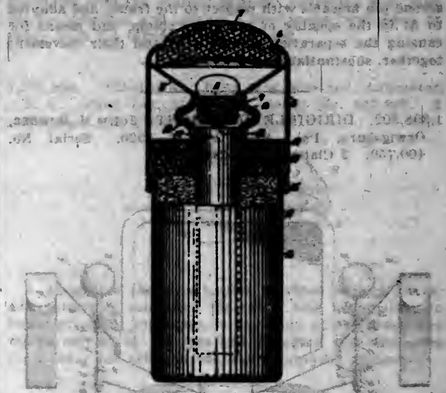
1. A spark plug comprising a shell, a central electrode having a sparking point spaced from the shell, insulation between the central electrode and the shell, an automatically reciprocal cleaning member mounted on the central electrode to clean the surface on the shell adjacent the sparking point, a spring for normally holding the cleaning member over the sparking surface on the shell and guides for the reciprocal cleaning member.

1,398,798. LIFTING-JACK. JOHN RAVEN, Deervale, via Armidale, New South Wales, Australia. Filed Apr. 12, 1920. Serial No. 373,252. 4 Claims. (Cl. 254—103.)



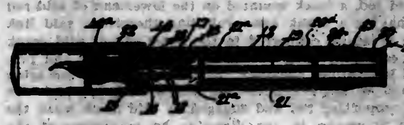
1. In a lifting screw jack, the combination with a standard, a hand lever having pawls pivotally mounted thereon, oppositely rotatable bevel wheels provided with ratchets adapted to be engaged and rotated respectively by said pawls, a non-rotatable plate, and bevel pinions carried by said plate and meshing with said bevel wheels, of a screw spindle capable of being selectively locked to one or the other of said bevel wheels and of being raised or lowered in said standard, and a table freely supported on the upper end of said spindle.

1,398,799. FLASHLIGHT. ADOLPH C. ESCHEN, Oakville, Conn., assignor to The Chase Companies Inc., Waterbury, Conn., a Corporation. Filed Feb. 28, 1921. Serial No. 448,892. 4 Claims. (Cl. 240—8.5.)



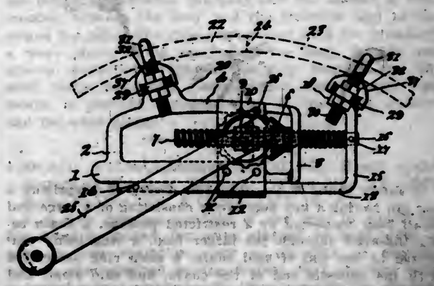
1. A flashlight having its lamp-carrying means adapted to be rotatably applied and thereafter telescopically mounted directly upon the cup of its cell, and normally held in relation thereto to open the circuit through the lamp.

1,398,800. FOUNTAIN-PEN. FRANK RIGGIO, Macon, Ga. Filed June 30, 1921. Serial No. 481,444. 3 Claims. (Cl. 120—47.)



1. In a fountain pen, the combination with an outer casing affording an ink chamber of a valve comprising two sleeves provided with openings, one of said sleeves being movable relative to the other to cause said openings to register with each other when desired, a piston sleeve slidingly mounted within said casing, and means whereby said valve will be closed when said piston sleeve is drawn outward, and will be opened when said piston sleeve is moved inward.

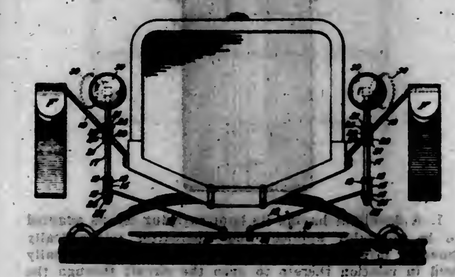
1,398,801. TOOL FOR DEMOUNTABLE RIMS. OLIVER METCALF RICE, Birmingham, Ala. Filed Aug. 21, 1920. Serial No. 405,148. 5 Claims. (Cl. 157—1.)



1. A tool of the character described comprising a pair of clamps adapted to be secured at opposite sides of the

cross-cut of a rim, and each component of clamp and plates having openings therein, locks adjustably carried by said plates and adapted to fit about the flanges of the rim, a frame adapted to rest within the rim, a pin on said frame engageable with the openings in one of said clamps, a second pin movable with respect to the frame, and adapted to fit in the opening of the other clamp, and means for causing the separation of said pins and their movement together, substantially as described.

1,398,802. DIRIGIBLE HEADLIGHT. JOHN M. ROHRER, Orwigsburg, Pa. Filed Aug. 2, 1920. Serial No. 400,750. 2 Claims. (Cl. 240—62.)



1. In dirigible headlight construction for automobiles, a link pivotally secured at one end upon the steering rod of the car, a rod vertically supported on the car to turn on its longitudinal axis, a lamp secured to the upper end of said rod, a block mounted on the lower end of said rod and having a crank arm projecting therefrom, said link being pivotally connected to the outer end of said crank arm, ears projecting outwardly from the block and provided with alined openings, the lamp-supporting rod being turnable within said alined opening, a stud connected to the lamp-supporting rod and engaged by said block when the latter is swung in one direction by movement of the steering rod, a torsional spring imparting to the rod a tendency to move in a direction opposite to that in which it is moved by the link, and stop means provided on the rod and engageable with the support thereof to prevent turning of the rod under the influence of the spring beyond a predetermined position.

1,398,803. SAFETY-CHAIN. JOHN J. SCHNEIDER, Lathrop, Mo. Filed Feb. 10, 1920. Serial No. 357,569. 1 Claim. (Cl. 24—3.)



A safety chain of the character described comprising a bar pin having a key hole eyelet consisting of a large and small loop connected by a restricted passage, a chain being threaded through the larger loop, a ring being connected to one end of said chain, a snap ring associated with the opposite end of the chain, and said small and restricted passage receiving said chain to prevent movement thereof with respect to said eyelet.

1,398,805. PROCESS FOR THE TREATMENT OF VEGETABLE FIBERS. CHARLES GEORGES VILLEDIEU, Paris, France, assignor to Société Gillet & Fils, Lyon, Rhône, France, a Corporation of France. Filed Dec. 9, 1920. Serial No. 429,978. 2 Claims. (Cl. 8—20.)

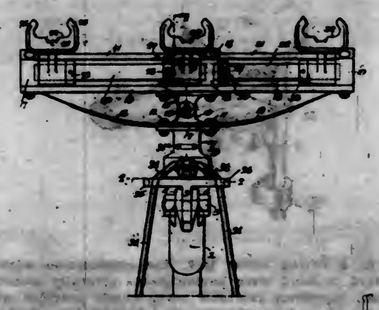
1. A process for the treatment of vegetable fibers with a view to impart to them the character of wool, both physically as to the feel, appearance and caloric quality, and chemically, as regards their affinity and absorbent capacity for dyestuffs, said process consisting in impregnating the fiber with a solution of cellulose in concentrated nitric acid, and precipitating upon the fiber a slightly nitrated cellulose by washing with water.

1,398,806. AUXILIARY-AIR INLET. CHARLES B. SHARPE, Norristown, Pa. Filed July 29, 1919. Serial No. 314,124. 2 Claims. (Cl. 48—180.)



1. An attachment of the class described comprising an elongated body member having attaching apertures in its end, and a central opening between said apertures adapted to register with the bore of an engine manifold when applied, a wire screen shielder mounted over said opening, said body having longitudinally extending air chambers formed on opposite sides thereof, said chambers being closed at one end and open at the other, a pipe connecting the open ends of said chambers, one of said chambers having a valve controlled air inlet and each having a plurality of air passages communicating with the central opening in said body.

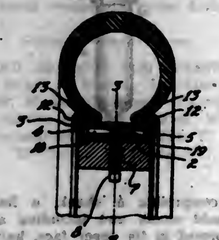
1,398,808. CURRENT-COLLECTOR. ISAAC D. SHEPPER, Philadelphia, Pa., assignor to The J. G. Brill Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 12, 1921. Serial No. 499,928. 13 Claims. (Cl. 191—59.1.)



1. The combination in a current collector for trolley cars, of a pole; a head mounted on the pole; a swivel member mounted on the head; a carrier pivoted to the swivel member, said carrier extending laterally beyond the swivel member; a spring mounted on the swivel member and tending to support the carrier in its normal position; two shoes spaced apart and pivotally mounted on the carrier, said shoes being insulated one from the other; and means for limiting the rocking movement of the shoes.

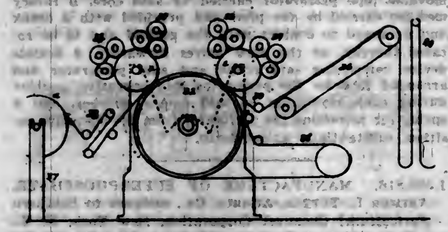
9. The combination of a head; a swivel member mounted on the head; a carrier pivoted to the swivel member; means tending to hold the carrier in a normal position; two shoes pivotally mounted on the carrier and a third shoe centrally located and also mounted on the carrier; and terminals for each of the end shoes, the central shoe being connected to one of said terminals.

1,398,807. RIM. WILLIAM C. SMITH, Robinson, Ill. Filed Jan. 29, 1921. Serial No. 440,966. 1 Claim. (Cl. 301—17.)



A wheel rim comprising a section fixed on a wheel, a tire carrying section surrounding the wheel section, contacting flanges on the opposite edges of the sections, the confronting surfaces of the sections having transverse wedge grooves, orifices intersecting the grooves, and the wheel carrying section having an elongated opening for the passage of the valve stem of the tire carried by the tire carrying section, means between the sections designed to be brought into interengaging position when one of the sections is turned circumferentially on the other sections, and the referred to grooves and orifices designed to alinse when the sections are thus related, a notched wedge key passing through the grooves, a plate having a depending finger passing through the orifices and the notch in the groove, said plate also having a spring finger designed to be received in the slot for the valve casing and to contact with said casing, and the cap of the valve casing designed to be screwed thereon and to contact with the plate, all as and for the purpose set forth.

1,398,808. METHOD OF CONTINUOUS PRINTING BY LITHOGRAPHY. CHARLES P. STIRLING, Somerville, N. J., assignor to Cott-A-Lap Co., Somerville, N. J., a Corporation of New Jersey. Filed Mar. 19, 1919. Serial No. 283,468. 1 Claim. (Cl. 101—138.)



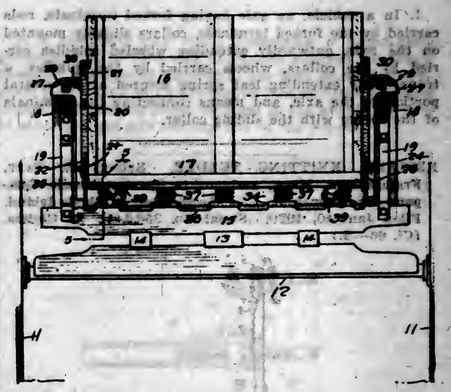
The process herein described of preparing cylinders for making continuous impressions and printing therefrom, said process consisting in preparing a cylinder of zinc or similar material, graining the entire surface of the cylinder, then preparing a design on a flat zinc plate, the design being equal to the circumference of the grained cylinder, and finally transferring the design from the flat zinc plate onto a transfer roller and from the roller onto the grained cylinder, preparing the cylinder for printing, and making a continuous impression on paper from the inked grained cylinder.

1,398,809. ICE-HOOK. JOHN ROY STOGNER, Lancaster, S. C. Filed Oct. 19, 1920. Serial No. 417,918. 2 Claims. (Cl. 294—115.)



1. In an ice tongs, a handle provided with a shank, arms pivotally connected therewith, legs terminating in hooks pivotally connected to the ends of the arms, and means carried by the legs and engaging with the arms for locking the arms on the legs at varying angles.

1,398,810. WAGON-SPRING. FRED D. STORY, Center Point, Ark. Filed Oct. 7, 1920. Serial No. 415,282. 1 Claim. (Cl. 280—143.)

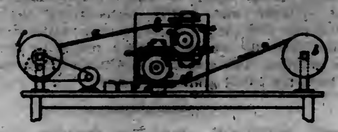


The combination with a wagon running gear comprising a bolster, standards spaced at the ends of the bolster and a body between the standards, of a cushioning member interposed between the body and the bolster, a wear member between the body and the standard and having means for removable rigid engagement with the standard, a wear plate rigidly secured to the body, tongue and groove connections between the wear member and the wear plate permitting sliding action therebetween, and means to prevent the separation of the wear member and the wear plate.

1,398,811. FILM-CLEANING MACHINE. HARRY ADOLF SÜNECKE, Hamburg, Germany. Filed Mar. 15, 1920. Serial No. 366,179. 4 Claims. (Cl. 15—8.)

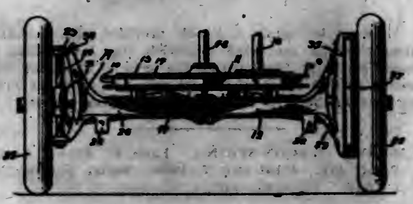
1. A film cleaning machine of the type in which the film band is guided, for being cleaned on both sides at once in one operation, over a plurality of cleaning wheels, characterized by the feature that the film band is passed across pressure pads lying opposite the cleaning wheels in such a manner that the film band moves at

all places of contact with the cleaning wheels in the same direction as the latter and that the forward feed



of the film, caused by its being carried along by the cleaning wheels, is compensated by the braking effect of the surface of the pressure pads.

1,396,812. SPRING SUSPENSION FOR AUTOMOBILES AND OTHER VEHICLES. HARRY B. SYLES, Norton, Kans. Filed June 3, 1920. Serial No. 386,831. 6 Claims. (Cl. 280—96.2.)



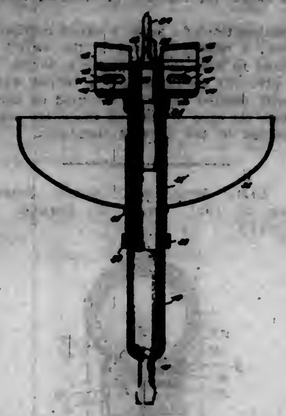
1. In a vehicle, an axle having forked terminals, rods carried by the forked terminals, collars slidably mounted on the rods, outwardly extending wheeled spindles carried by the collars, wheels carried by the spindles, a transversely extending leaf spring secured at its central portion to the axle, and means connecting the terminals of the spring with the sliding collar.

1,396,813. KNITTING-NEEDLE. SIDNEY H. TAFT, Framingham, Mass., assignor to Spartan Needle Company, Providence, R. I., a Corporation of Rhode Island. Filed Jan. 10, 1920. Serial No. 350,541. 24 Claims. (Cl. 66—5.)



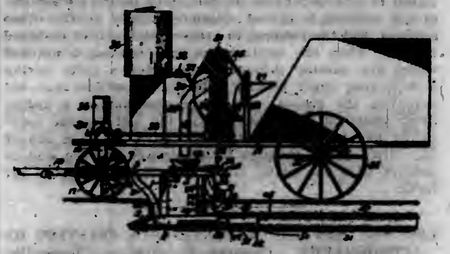
16. A knitting instrument comprising a hook and means slidably arranged at one side only of said hook to effect the opening of the loop supported by said hook for the passage therethrough of said hook and the casting off of said loop from said hook.

1,396,814. DRILL. MICHAEL TANNENBAUM, Brooklyn, N. Y. Filed July 15, 1921. Serial No. 485,662. 5 Claims. (Cl. 145—121.)



1. A drill comprising a shank, a head removably mounted on said shank and including a plurality of radial ways formed in its upper face, knives adjustable in certain of said ways, and knife carriers adjustable in other of said ways.

1,396,815. MACHINE FOR MAKING AND LAYING PIPE. JAMES F. TRUSTY and DANIEL O. DAVISON, Kansas City, Mo.; said Davison assignor to said Trusty. Filed May 24, 1918. Serial No. 236,442. 1 Claim. (Cl. 111—5.)

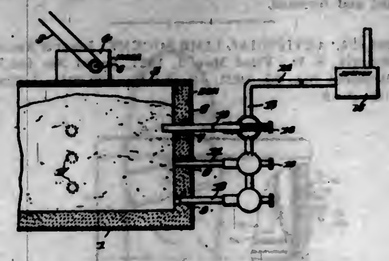


In a machine for making and laying pipe, a conduit forming plow, a core extending rearwardly therefrom, a movable pipe perforator carried by said core, a rotary member carried by the plow and provided with a crank and arranged to contact with the ground and to be rotated thereby, as the plow moves forwardly, a flexible device connecting said crank and said perforator and arranged to draw the perforator into operative position during each revolution of said rotary member, and a spring for retracting the perforator from the operative position, substantially as set forth.

1,396,816. MANUFACTURE OF SUPERPHOSPHATE. ARTHUR L. TUTTLE, Atlanta, Ga., assignor to Southern Agricultural Chemical Corporation, New York, N. Y., a Corporation of Virginia. Filed Jan. 15, 1921. Serial No. 437,466. 4 Claims. (Cl. 71—7.)

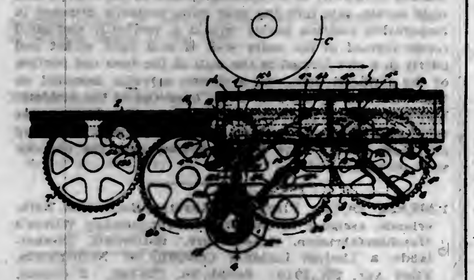
1. In the process of making acid phosphates, the herein described improvement which comprises venting a mass

of raw mixture containing phosphate and acid, at a point below its surface, and allowing the generated steam



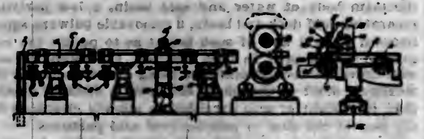
and gases to freely escape therefrom during the period of reaction.

1,396,817. BED-MOTION FOR SHEET-PRINTING PRESSES. BURT F. URMAN, Brookline, and FRANK R. BELLUCHE, Mansfield, Mass., assignors to United Printing Machinery Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 17, 1920. Serial No. 366,592. 26 Claims. (Cl. 74—98.)



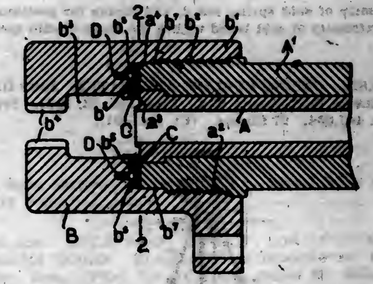
1. In combination with a reciprocable bed; a member attached thereto having two closely adjacent oppositely inclined faces arranged at an angle of less than ninety degrees to the plane of movement of said bed, said inclined faces converging toward the center of the bed and inclining downwardly and outwardly away from the center of the bed; means for driving the body uniformly during portions of its strokes; and two similar alternately operating means each adapted to engage the related inclined face of said member and reverse the body while in engagement therewith.

1,396,818. AUTOMATIC DUMP-TROUGH-OPERATING APPARATUS. EDWIN L. UPP, Lorain, Ohio, assignor to National Tube Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Dec. 16, 1920. Serial No. 431,228. 4 Claims. (Cl. 80—42.)



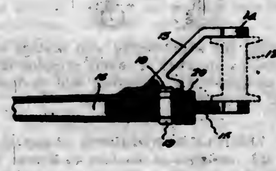
4. The combination with a pipe handling apparatus comprising an in-going trough, sizing rolls, a dump trough having a hinged cover, and a pneumatic cylinder for raising and lowering said cover, having magnetically operated inlet and outlet valves, of an electrical control apparatus adapted to control the circuit to said magnetically operated valves, said apparatus comprising a main control switch mounted over said in-going trough and having a trip lever extending into said trough into the path of travel of the pipe, and a magnetically operated contactor adapted to make the circuits to said inlet and outlet valves, said control switch being adapted to control the circuit energizing said magnetically operated contactor.

1,396,819. GUN-BARREL BUILT OF AN A-TUBE AND A BREECH-PIECE. JOHN VOLLMER, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Dec. 8, 1920. Serial No. 428,086. 4 Claims. (Cl. 89—16.)



1. A composite gun barrel comprising a breech-piece provided with a bore and an A-tube adapted for screw threaded engagement therewith, the bore of said breech-piece terminating in an arc-shaped face curved on a large radius, and packing pieces disposed in the arc-shaped face of said bore and adjacent the end of the A-tube.

1,396,820. ADJUSTABLE RADIUS-ROD. EDWARD H. WAGNER, Providence Forge, Va. Filed Apr. 5, 1921. Serial No. 458,676. 1 Claim. (Cl. 267—66.)

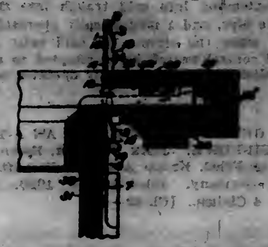


An automobile radius rod comprising a V-shaped member and forks located at the outer ends of the arms of said member for engagement with an automobile axle, said forks each including an offset arm, an eye located at the outer end of the arm, an adjustable eye bolt, an adjusting nut swiveled in the arm of the radius rod and mounted upon the eye bolt and a clamping nut also mounted upon the eye bolt and bearing against the radius rod.

1,396,821. KNITTING INSTRUMENT. J. FRANK WILCOMB, Worcester, Mass., assignor to Spartan Needle Company, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 10, 1920. Serial No. 372,946. 10 Claims. (Cl. 66—5.)

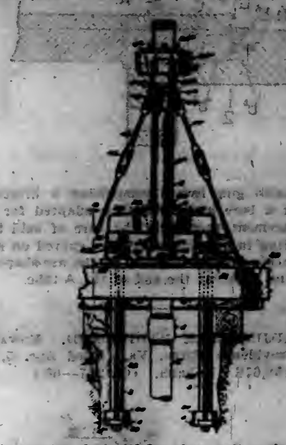
1. A loop forming instrument comprising two relatively slidable elements, one of said elements having a spring beard hook for seising the new yarn and the other of said elements including means for penetrating the old loop at the back of the first mentioned element and progressively

engaging the sides of said loop toward the front of the needle to spread said old loop for the reception of the



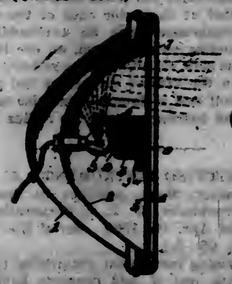
extremity of said spring board, and means for positioning the extremity of said board within the range of said spread loop.

1,398,822. CASING-PULLING APPARATUS. JOHN HART WILSON, Burkburnett, Tex. Filed Feb. 23, 1921. Serial No. 447,054. 27 Claims. (Cl. 254—81.)



1. Apparatus for withdrawing well casings comprising, in combination, a plurality of casing gripping devices, and means for independently operating said devices to effect longitudinal movement of the casing.

1,398,823. VEHICLE-HEADLIGHT. LEON G. WRIGHT, Preston, Md., assignor of one-half to Ernest N. Wright, Choptank, Md. Filed June 29, 1920. Serial No. 392,707. 2 Claims. (Cl. 245—48.4.)



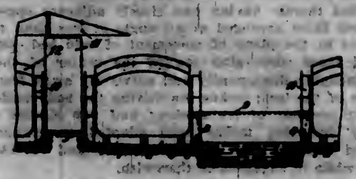
1. As an article of manufacture, a lens for a vehicle headlight lantern having its lower half curved and its upper half transparent, a center hood projecting rearward, said hood having its side edges outwardly curved downward and forward.

1,398,824. ARTIFICIAL-LIMB SOCKET. JOSEPH ABRAMS, Sturgis, S. D. Filed Mar. 1, 1921. Serial No. 448,745. Renewed Oct. 20, 1921. Serial No. 509,804. 1 Claim. (Cl. 3—9.)



The combination with the upper open end portion of an artificial limb, of a rigid socket member adapted to be supported in the open end thereof, an annular inflatable cushioning socket within said rigid socket, a valved inflating tube leading radially from said cushioning socket and extending outwardly of an opening formed in the wall of said rigid socket, said inflating tube being normally disposed in inoperative position partly within a vertically elongated recess formed in the outer wall of said rigid socket and partly in a slot formed in the wall of the open end portion of the artificial limb, and a closure movably mounted on the outer face of the wall of the open end of the artificial limb and adapted to cover the said slot, said inflating valve being adapted to spring outwardly from the said limb and slot when said closure is moved from over the slot for such purpose.

1,398,828. DOCK. PIETER VAN AFFAIRE, Rotterdam, Netherlands, assignor to Naamlooze Vennootschap Wilton's Maschinefabrieken Scheepswerf, Rotterdam, Netherlands, a Limited Liability Company of Netherlands. Filed Apr. 22, 1918. Serial No. 230,160. 2 Claims. (Cl. 61—64.)



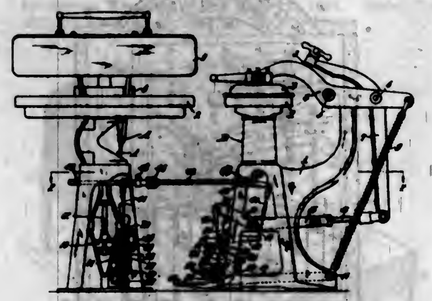
1. The combination with a dock having a floor disposed approximately at low water level, of a basin arranged alongside of and offset from said dock with its major dimension substantially parallel to the major dimension of said dock, a wall forming an exterior closure for said dock and one end of said basin, a lock gate located at the other end of said basin for controlling communication between the main body of water and said basin, a low partition separating said dock and basin, a removable bulwark superimposed on said wall of such height as to permit the lock gate to be securely in open position, the height of said wall above the floor of said dock being at least equal to the maximum draft of the empty ship plus a distance greater than the height of said partition to allow a clearance for the keel of the ship in passing over said partition.

1,398,833. COTTON-PICKER'S SACK. SMITH N. ARMS, Newbern, Tenn. Filed July 27, 1920. Serial No. 399,244. 2 Claims. (Cl. 150—2.)

1. A cotton picker's sack provided at its receiving end with flaps, a suspending means secured to the sack inwardly of the free edges of the flaps, and means by which the upper edge of either flap may be secured to the suspending means at points above the connection of the suspending means to the sack.



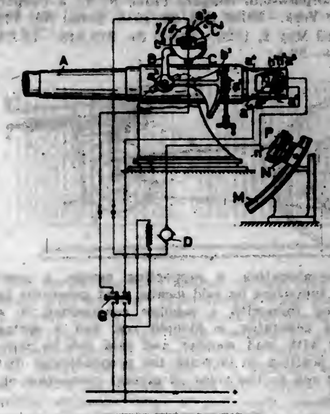
1,398,827. TANDEM ATTACHMENT FOR GARMENT-PRESSERS. WILLIAM E. ARNOLD, Chicago, Ill., assignor to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Filed Nov. 6, 1919. Serial No. 336,574. 22 Claims. (Cl. 68—9.)



1. In apparatus of the class described, the combination with a plurality of pressing machines, each including a movable pressing member and locking means therefor, of means positively connecting the locking means of the said machines.

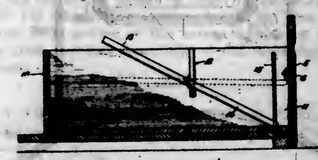
1,398,828. APPARATUS FOR INVESTIGATING AN ELECTRICAL GYROSCOPIC FIRING-GEAR. AUGUST VON APPEN, Kiel, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Dec. 6, 1920. Serial No. 428,755. 4 Claims. (Cl. 89—27.)

1. An arrangement of the class described for testing an electrical gyroscopic firing apparatus used in combination with a gun provided with a firing magnet which comprises a record indicating means positioned so as to be adjacent the breech end of the gun when the gun reaches an elevation corresponding to the range and means disposed in the breech end of the gun and operated by



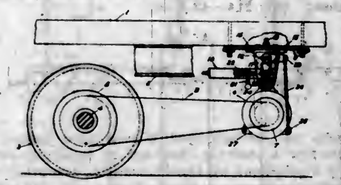
the firing magnet for initiating the record upon said record indicating means.

1,398,829. RELEASING DEVICE FOR POULTRY-HOUSE DOORS. RUSSELL LLOYD BENNINGTON, Lake City, Iowa. Filed Apr. 30, 1921. Serial No. 465,688. 3 Claims. (Cl. 119—22.)



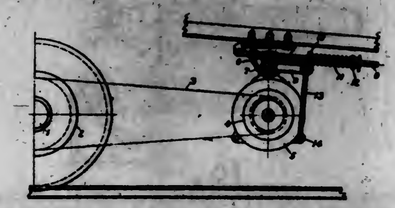
1. The combination with a poultry house having a door opening, a door for automatically opening when not fastened in closed position, a fastener on the inside of said door to hold it closed, a supporting structure adapted to be positioned adjacent said fastener, a lever fulcrumed intermediate its ends in said structure, the front portion thereof being longer than the rear portion whereby its end is normally in lowered position, said lever end being adapted to be placed below said fastener and operable when swung upwardly to engage and release the fastener the other end of the lever being normally raised in position to receive a fowl.

1,398,830. GENERATOR-MOUNTING. WILLIAM L. BLISS, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed July 10, 1916. Serial No. 108,881. 15 Claims. (Cl. 105—106.)



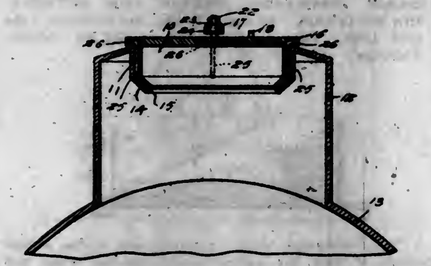
1. A generator mounting comprising, in combination, a plate, and a hanger adapted to be supported by said plate, said hanger being provided with lugs adapted to straddle said plate in pairs.

1,396,831. GENERATOR-MOUNTING. WILLIAM L. BLISS, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Dec. 23, 1916, Serial No. 138,612. Renewed May 8, 1920. Serial No. 379,945. 11 Claims. (Cl. 64—52.)



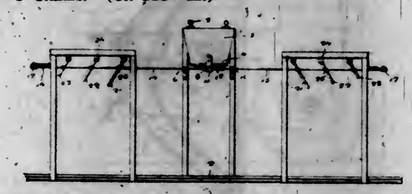
2. In combination, a supporting means, a generator pivotally supported by said means, said generator having coöperating therewith a member constrained to swing with said generator, a pivoted rod and a spring coöperating with said member and said rod to urge said rod to a position to increase the perpendicular distance from said rod to the point of pivotal connection of said generator.

1,398,832. DOME-COVER FOR OIL-CARS. WILLIAM K. BONHAM, Coffeyville, Kans. Filed Feb. 25, 1920. Serial No. 361,198. 2 Claims. (Cl. 220—39.)



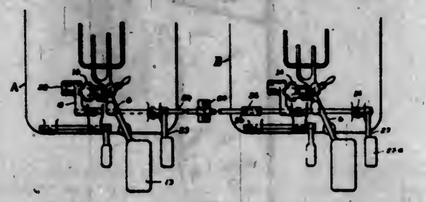
1. A tank car provided with a dome having an opening in its top, an internally threaded collar within the dome in line with the opening thereof and terminating at its lower end in a conical seat, and a plug externally threaded to match the internal threads of the collar and having its end tapered to engage the conical seat of the said collar, and having an outer rim to overlap the top of the dome, said rim having lateral openings therein, and the body of the plug having grooves in its sides in communication at their upper ends with the lateral openings and adapted to be closed at their inner ends by the said conical seat.

1,398,833. TRAIN-COALER. SAMUEL LLOYD BOULDIN, Oswego, Kans. Filed Oct. 16, 1920. Serial No. 417,354. 3 Claims. (Cl. 214—42.)



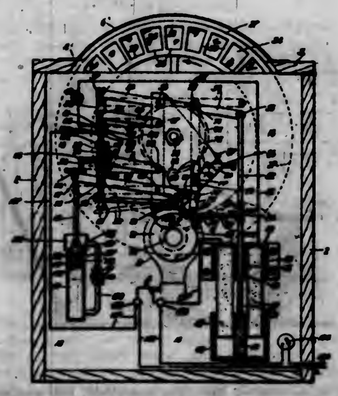
1. A coal loading device comprising a hopper arranged above the track, a bottom hinged to the hopper, means for holding the bottom in closed position, arms of different lengths pivoted above the track, a cable for tripping said means, said cable being connected with said arms, and a trip bar carried in the locomotive and adapted to be set to engage the desired arm in accordance with the travel of the train.

1,396,834. TANDEM ATTACHMENT FOR IRONING-PRESSES. CHARLES L. BRALEY, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 24, 1916. Serial No. 116,696. 11 Claims. (Cl. 68—9.)



1. Apparatus of the class described, comprising a plurality of pressing machines, each embodying relatively movable pressing members and a plurality of controlling treadles therefor, and operating connections between treadles on different machines whereby operation of a treadle of one machine produces a controlling effect upon another machine.

1,398,835. LUMINOUS DISPLAY APPARATUS. LEOPOLD B. BUCHNER, Fitzroy, Melbourne, Victoria, Australia. Filed Nov. 12, 1920. Serial No. 423,706. 14 Claims. (Cl. 88—27.)



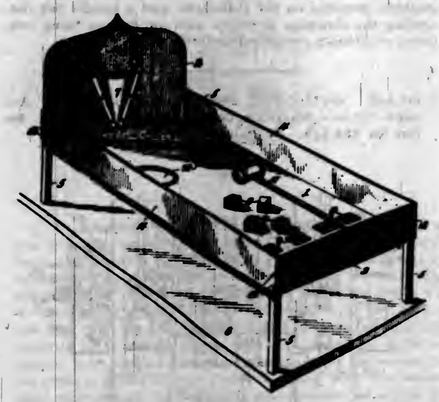
1. In a luminous display apparatus an illuminating medium, a film carrier holding a series of films or plates bearing the signs to be displayed, a solenoid, having a movable core adapted to be operated in one direction by electric energy to successively move the films or plates into position to project their sign onto the display screen, and in a reverse direction by gravity while a sign is being displayed, means for intermittently energizing the solenoid, a dashpot, a plunger within the dashpot cylinder, said plunger having therethrough an oil passage, a ball valve to normally close the oil passage, means for limiting the upward movement of the ball valve and a regulating tap whereby the escape of oil from one end of the dashpot cylinder is controlled to regulate the period occupied by the core in its return or gravity operated stroke.

1,396,836. PROCESS OF PRESERVING MEAT AND ALIMENTARY SUBSTANCES. LOUIS FREDERICK BULLOT, Sydney, New South Wales, Australia. Filed Sept. 28, 1918. Serial No. 255,300. 1 Claim. (Cl. 99—9.)



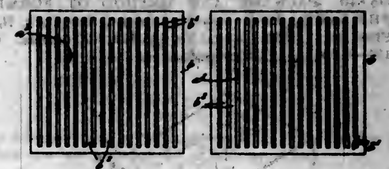
The herein described method of preserving meat and other alimentary substances, consisting in inclosing the substance in a treatment chamber, and burning a mixture of charcoal, golden wattle bark, saltpeter, sulfur and preserving and flavoring oils in a separate combustion chamber and charging the treatment chamber with fumes of the mixture to the proper density and hermetically sealing said treatment chamber and permitting the substance to remain inclosed and affected by the fumes for a predetermined time.

1,398,837. GAME. JOSEPH CARTER, Saskatoon, Saskatchewan, Canada. Filed Mar. 17, 1921. Serial No. 453,094. 3 Claims. (Cl. 46—59.)



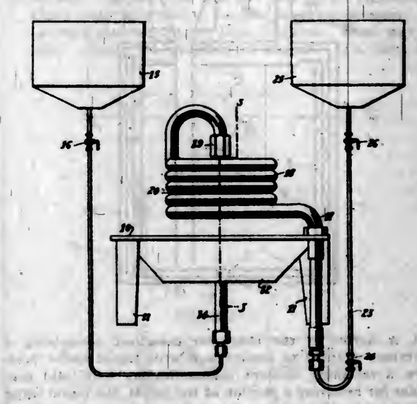
1. A game structure comprising a table with surrounding marginal portions rising above the surface of the table, with the bottom of the table of an elastic nature to rebound under blows, a playing element adapted to rest on the table, a pocket at one end of the table, and a mallet for tapping the under surface of the table adjacent to the end remote from the pocket, whereby blows delivered to the under face of and transmitted through the table will cause a playing element on the table to rise therefrom and, if the blow be properly directed, proceed to and drop into the pocket.

1,396,838. PICTURE OR DESIGN HAVING MOTION EFFECT. THOMAS A. B. CARVER, Glasgow, Scotland. Filed July 24, 1917. Serial No. 182,573. 4 Claims. (Cl. 40—137.)



1. The herein described method of endowing a picture or design with an effect of movement when seen from a point of view that is in front thereof and moves relatively to the picture or design which consists in preparing a predetermined number of copies of one and the same picture or design but each copy in a different position or phase, cutting the several copies into vertical strips and discarding alternate strips of each copy, assembling the remaining strips of the several copies on a suitable surface in such manner that the strips of each copy are laterally displaced with respect to the strips of the other copies, and interposing between the point of view and the strip carrying surface a screen comprising a number of vertically disposed obscuring bands of equal width and equal pitch alternating with clear spaces each of a width proportional to the reciprocal of the number of phases in which the picture or design is prepared, the strips assembled on the supporting surface being not less in width than the clear spaces of the screen and being assembled with a pitch not less than that of the obscuring bands of the screen.

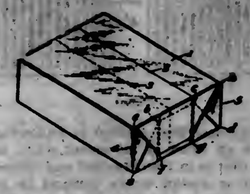
1,398,839. BURNER. JOHN CLARY, Oakland, Calif. Filed June 28, 1920. Serial No. 392,270. 1 Claim. (Cl. 158—13.)



A burner comprising a body portion, an open water chamber included in the body portion, a coil supported above the water chamber, means for supplying a hydrocarbon fluid to the coil, a nozzle communicating with and located centrally of the coil for directing the fluid toward the water chamber, a screen clamped between the convolutions of the coil located between the nozzle and the water chamber in the path of the fluid for breaking up the hydrocarbon liquid and a spreader located within the wa-

ter chamber, whereby when the burner is lighted the hydrocarbon fluid and water will be vaporized and mixed to provide a fuel for the burner.

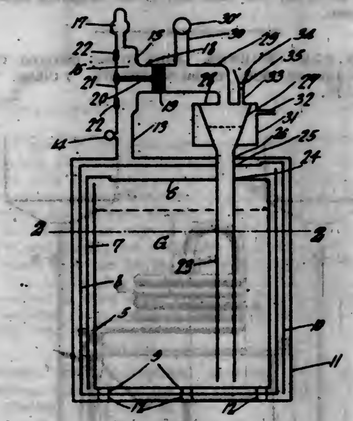
1,398,840. PACKAGE AND METHOD OF FORMING THE SAME. Edwin Jameson Cooley, New York, N. Y. Filed Jan. 7, 1921. Serial No. 436,574. 20 Claims. (Cl. 131—11.)



10. A package comprising cigarettes and an inclosure consisting of relatively thin foil having its edges overlapped in opposite directions and fused together.

20. The method of forming inclosures for packages comprising passing overlapped portions of foil between a surface heated to a fusing temperature and a relatively non-heat-conducting backing.

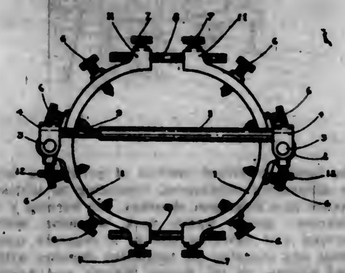
1,398,841. LIQUID-CONTAINER. Courtney Coroves, Philadelphia, Pa. Filed June 14, 1919. Serial No. 304,289. 10 Claims. (Cl. 220—9.)



1. A device of the character described comprising a container adapted to receive a volatile liquid under pressure, a retaining element communicating with said container for receiving a portion of the liquid, the liquid being forced into said retaining element by the pressure exerted upon the liquid within said container, said pressure being greater than the pressure exerted upon the liquid within the receiving element, means for applying heat to a portion of the liquid within said retaining element to increase the pressure exerted upon the liquid within said retaining element, and means for equalizing the pressures exerted respectively upon the liquid within said container and said retaining element.

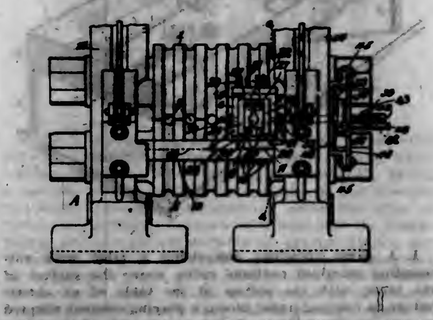
10. A device of the character described comprising a plurality of tanks arranged within each other and spaced from each other, the innermost of said tanks being adapted to receive a volatile liquid, a chamber communicating with said tanks, means for applying heat to a portion of said liquid to rapidly volatilize the same, a portion of the evolved gases being directed into said chamber, and automatically operated means for rendering the pressure within said chamber equal to the pressure above the heated portion of said liquid whereby the liquid is moved out of contact with the heating medium supplied thereto.

1,398,842. SKULLCAP FRAME AND GUIDE. George M. Cause, Stockton, Calif. Filed Feb. 9, 1920. Serial No. 357,346. 1 Claim. (Cl. 128—2.)



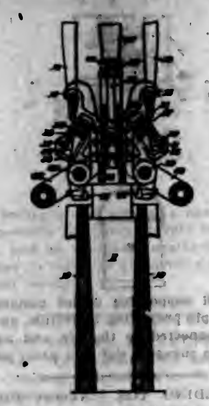
A device of the character described, comprising an annular base and guide member which is in two substantially semi-circular sections, an adjustable connection between said sections, set screws carried by the sections to project radially into the interior of the base and guide member, standards carried by the sections and positioned diametrically opposite each other, clamping members adjustably mounted on the standards, and a handle bar connecting the clamping members, said handle bar being composed of slidably connected sections.

1,398,843. GUIDE-BOX FOR ROLLING-MILLS. Andrew Cullen, Massillon, Ohio. Filed Oct. 30, 1919. Serial No. 334,845. 16 Claims. (Cl. 80—51.)



1. A guide box structure for rolling mills comprising a frame, a pair of guide holders each substantially channel shaped and located within the frame, individual guide blocks adjustable within each guide holder, set screws passing through the guide holders and holding the guide blocks in the holders, and other set screws for retaining one of the guide holders in fixed position.

1,398,844. INGOT-STRIPPING MECHANISM. Gustaf L. Dahlstrom, Jr., Chicago, Ill. Filed June 10, 1915. Serial No. 239,215. 12 Claims. (Cl. 22—66.)



1. An ingot stripping mechanism comprising in combination ingot gripping means, hoisting means secured to said ingot gripping means, and means associated with said ingot gripping means for retaining an ingot mold in position during a portion of the stripping operation.

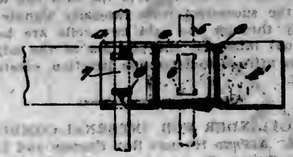
1,398,845. VALVE FOR CONTROLLING FLOW OF GASES. Robert H. Davis, London, England. Filed Aug. 11, 1920. Serial No. 402,885. 8 Claims. (Cl. 277—55.)



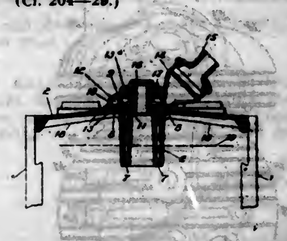
4. In a control valve fitting for controlling the flow of gas from apparatus in which the gas is stored in liquid form and which is provided with a vaporiser, an inlet pipe adapted to be connected to the vaporiser, an inlet pipe adapted to be connected to the top of the liquid container, a throttle valve with axis at right angles to the axis of the first inlet pipe, a communicating passage between said throttle valve and said first inlet pipe, a release valve arranged in a passage in communication with the second inlet pipe, a pressure gage communicating with the second inlet pipe, means for adjusting the pressure at which the release valve opens, and passages for bringing the gas passing through both valves to a common outlet.

1,398,846. RAILWAY SIGNAL-TORPEDO. Frank Dutchess, Versailles, Pa., assignor to Central Railway Signal Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Feb. 2, 1921. Serial No. 441,715. 6 Claims. (Cl. 246—467.)

1. A railway signal torpedo comprising an explosive wrapped within a plurality of folds of a sheet to form a case therefor with extended wrapped portions, the extended wrapped portions folded inward, and a rail-engaging member passing through openings intermediate and transverse the ends of one of said portions.

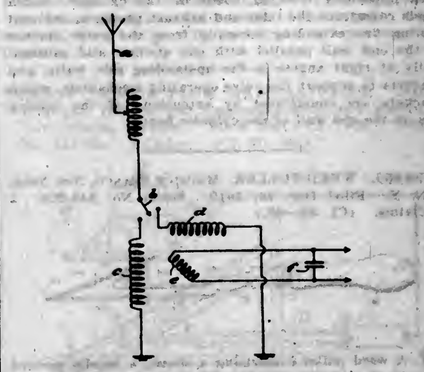


1,398,847. STORAGE-BATTERY CELL. Frank Engel, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Sept. 12, 1917. Serial No. 190,879. 8 Claims. (Cl. 204—29.)



1. A battery cell cover having exhaust means placed substantially centrally thereof, said cover being saucer-shaped and having reinforcing ribs on the underside thereof forming passage-ways converging toward said exhaust means.

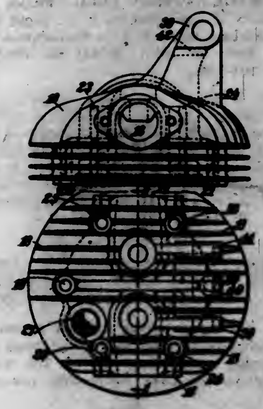
1,398,848. WIRELESS RECEIVING AND TRANSMITTING APPARATUS. James Erskine-Murray and James Robinson, Biggin Hill, England. Filed Mar. 30, 1920. Serial No. 369,892. 5 Claims. (Cl. 250—11.)



1. Wireless direction finding apparatus for use with transmitting systems in which the intensity of radiation is a maximum and minimum in directions which can be changed according to plan, comprising at the receiving station an aerial circuit, two identical coils arranged at

an angle with each other, means for including said coils alternately in the aerial circuit, a receiving circuit and an element in the said receiving circuit which can be adjusted in position with respect to the said two identical coils until the successive least intensity signals passed consecutively through the said two coils are heard as being of equal intensity, the position of the adjustable element being utilised to determine direction, substantially as described.

1,398,849. CYLINDER FOR INTERNAL-COMBUSTION ENGINES. ALFRED HUBERT ROY FEDDEN and LEONARD FREDERICK GEORGE BUTLER, Bristol, England, assignors to The Bristol Aeroplane Company Limited, Bristol, Gloucester county, England. Filed Nov. 1, 1920. Serial No. 421,134. 2 Claims. (Cl. 123—171.)



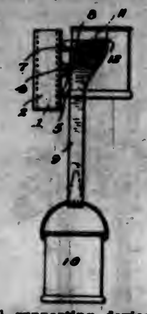
1. A working cylinder for internal combustion engine comprising in combination a cylinder head, an open-ended cylinder spigoted therein, cooling fins upon said head extending radially in planes transverse to the longitudinal axis of the cylinder, the aforesaid head formed with oppositely directed hoods of the cylinder, which hoods constitute the inlet and exhaust passages, external cooling fins extending normally from the outer surface of the end wall parallel with one another and substantially at right angles to the upstanding side walls, and brackets to support the valve operating mechanism, which brackets are constituted by extensions of the cooling fins on the end wall of the cylinder head.

1,398,850. WEED-PULLER. MAURICE FRANCO, New York, N. Y. Filed Dec. 16, 1919. Serial No. 345,225. 2 Claims. (Cl. 55—65.)



1. A weed puller comprising a shank, a handle secured to said shank, one end of said shank being reduced to form an extremely sharp point, a barb formed on the last named end of the shank and coöperating with the shank in forming a weed receiving space, gripping edges formed on the barb and shank, and cutting edges formed on the barb and shank to permit easy insertion of the tool into the ground.

1,398,851. PAINT-PAIL-SUPPORTING DEVICE. ELMER GARVER, Coulterville, Ill. Filed July 20, 1920. Serial No. 397,763. 2 Claims. (Cl. 248—24.)



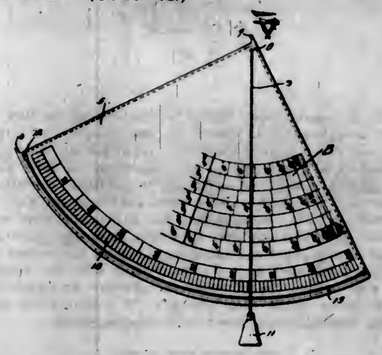
1. A paint pail supporting device comprising an adjustable clamp, a pin projecting therefrom, and a weighted hook pivotally connected to the pin and having an extension adapted to engage a slot in a paint pail.

1,398,852. BUILDING TOY. ALBERT PAUL GILBERT, Durham, N. C. Filed Feb. 4, 1920. Serial No. 356,156. 1 Claim. (Cl. 46—35.)



In the construction of toy buildings, the combination with panels which when placed edge to edge and assembled form the building, said panels being provided with a pair of rectangular recesses at either side of each corner, some of the panels having recesses intermediate the corners, and means consisting of a plurality of U-shaped clamps joined together at their closed ends, for connecting the edges of the panels together at the corners and at intermediate points, the rectangular recesses of adjacent panels coöperating to form a seat for the intermediate portion of the connecting means.

1,398,853. RANGE-FINDER. LEO GINZBOURG, Jersey City, N. J. Filed Dec. 1, 1919. Serial No. 341,588. 2 Claims. (Cl. 33—71.)



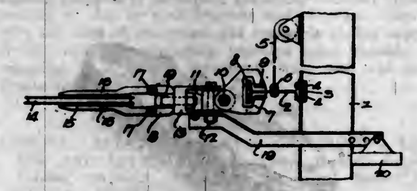
1. A device of the character described comprising a plate, a weighted member movable across the plate, and means carried by said plate and conforming to one of the edges thereof for guiding the weighted member in its movement across the plate, said guiding means being capable of movement into engagement with the weighted member to retain the same against movement relative to the plate.

1,398,854. FOLDING CHAIR. JOHN GROOMS, Atlanta, Ga. Filed Nov. 9, 1920. Serial No. 422,824. 2 Claims. (Cl. 155—39.)



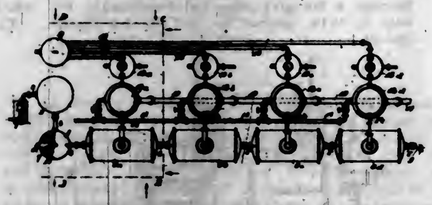
1. A chair having a seat section, a base section for the seat section movable relatively thereto for disposition in front thereof, and an elongated upstanding foot rest on the seat section to serve as a barrier to prevent a child leaving the seat section.

1,398,855. ROPE SHEAVE AND SUPPORT. WILLIAM E. HALM, Fort Washington, Pa., assignor to R. H. Beaumont Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 14, 1921. Serial No. 469,722. 3 Claims. (Cl. 254—190.)



1. The combination in a sheave carrier and support, of two posts; a beam vertically adjustable on the posts; means for securing the beam in position; a slide mounted on the beam and capable of longitudinal adjustment thereon; and a balance sheave mounted on the side.

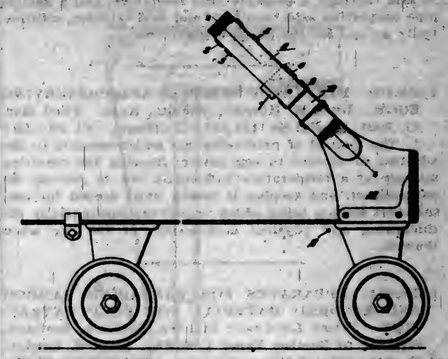
1,398,856. METHOD OF FRACTIONATE DISTILLATION. FRITZ HANSGIRG, Gratz, Austria. Filed Nov. 7, 1919. Serial No. 336,526. 6 Claims. (Cl. 204—63.)



1. A method of fractional distillation, comprising the steps of supplying an electric current to electrical resistances having large heat-transmitting surfaces, and maintaining a constant, low temperature-difference between said surfaces and the liquid undergoing distillation.

1,398,857. SKATE-FASTENER. MAURICE J. HOFFENBERG, New Haven, Conn. Filed Jan. 4, 1921. Serial No. 434,916. 6 Claims. (Cl. 46—53.)

1. A skate strap fastener comprising a plate having attaching loops at its ends and provided adjacent one end on one side edge with an inturned transversely arranged tongue overlying and spaced from one face of



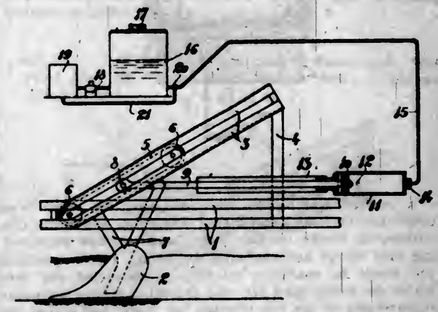
the plate, and strap engaging means adjacent the other end of said plate.

1,398,858. KALEIDOSCOPE. HERBERT E. HOUSE, Pasadena, Calif., assignor to Clarence S. Potter and Warren T. Potter, Los Angeles, Calif., Partners. Filed Apr. 13, 1920. Serial No. 373,556. 1 Claim. (Cl. 88—15.)



In a kaleidoscope, the combination of: mirrors set to form an equilateral dihedral angle; a cylindrical paper tube wound to tightly inclose said mirrors; and a tube into which said tube with its included mirrors may be forced.

1,398,859. MOTOR PLOW OR CULTIVATOR. PAUL HJALMAR HUBTIG and CHRISTIAN HJALMAR MENTON, Katrineholm, Sweden. Filed Sept. 22, 1920. Serial No. 412,024. 2 Claims. (Cl. 97—30.)



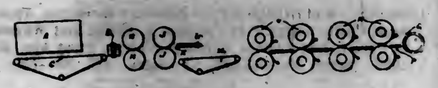
1. In a motor plow or cultivator the combination of an inclined guide way, a plow body supporting carriage

movable up and down therein, a cylinder, a piston therein, a piston rod secured to said piston and pivotally connected to said carriage, a pressure fluid receptacle, and a flexible pipe connecting said receptacle and said cylinder, substantially as and for the purpose set forth.

1,398,860. METHOD OF FREEZING AND PRESERVING EGGS. JOHN M. HUSSEY, Wichita, Kans. Filed Mar. 31, 1921. Serial No. 457,504. 2 Claims. (Cl. 99—11.)

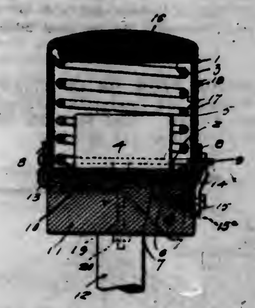
1. The method of preserving egg which consists in the addition of alcohol to egg batter, freezing the resulting mixture at a temperature sufficiently low to prevent decomposition, and keeping it frozen until needed for use, sufficient alcohol being added to prevent substantially the thickening and physical modification of the egg when thawed.

1,398,861. APPARATUS FOR PREPARING BAMBOO AND KINDRED MATERIAL FOR PULP EXTRACTION. JAMES LOCKHART JARDINE, Penicuik, Scotland, assignor to Bamboo Paper Company, Limited, London, England. Filed Aug. 15, 1921. Serial No. 492,579. 5 Claims. (Cl. 83—75.)



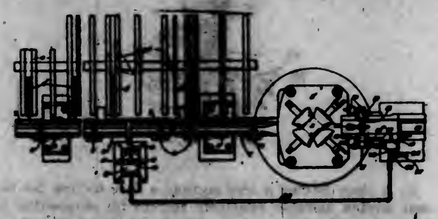
1. Apparatus for preparing bamboo and kindred material for pulp extraction comprising in combination means for feeding the stems through one or more pairs of cracking rolls, a plow device which splits the cracked stems into two portions, a series of pairs of crushing and disintegrating rolls through which the split stems pass, means for dividing the stems into portions of convenient length after they leave the last pair of crushing rolls, and means for driving the various parts of the apparatus as described.

1,398,862. CUSHION-TIRE. ADAM JOHN, Boston, Mass. Filed June 18, 1920. Serial No. 389,079. 1 Claim. (Cl. 152—8.)



A cushion tire having an outer band, an inner band concentric therewith and spaced therefrom, relatively large cushioning blocks on the inner band, springs surrounding said blocks and engaging the bands, fabric retaining the bands in operative relation, a channeled rim into which the inner band fits, and fastening means extending transversely of the rim through the fabric and across the inner band.

1,398,863. DUMPING-TROUGH-COVER-OPERATING MECHANISM., WILLIAM H. JOHNSTON, Lorain, Ohio, assignor to National Tube Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Sept. 15, 1920. Serial No. 410,549. 8 Claims. (Cl. 80—42.)



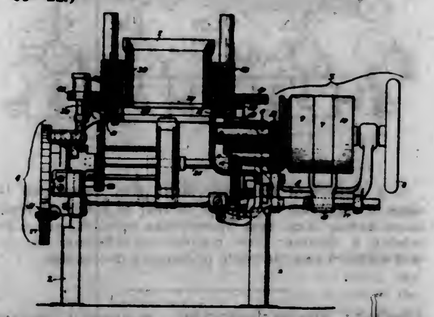
1. The combination with a pipe cooling table having a dumping trough and a hinged cover for said trough, of fluid actuated means operable by the pipes passing under said cover for automatically raising and lowering said cover.

1,398,864. SCRUB-BRUSH. MARTHA E. KELLY, Mill Hall, Pa. Filed Sept. 27, 1919, Serial No. 326,838. Renewed Aug. 2, 1921. Serial No. 489,202. 1 Claim. (Cl. 15—13.)



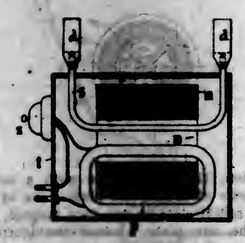
In combination with a brush, a strip having a recess in one face to receive part of the brush back and having its side edges corrugated to form finger receiving recesses separated by rounded projections and means for securing the strip to the brush back.

1,398,865. KNITTING-MACHINE CONSTRUCTION. WALTER LARKIN, Philadelphia, Pa., assignor to Fidelity Machine & Manufacturing Co., Philadelphia, Pa. Filed July 1, 1919. Serial No. 307,988. 5 Claims. (Cl. 66—21.)



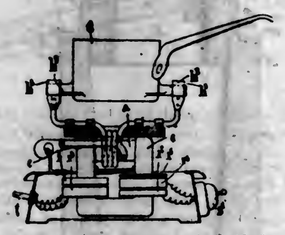
1. The combination in a circular knitting machine of a main supporting frame; a needle cylinder; an adapter ring removably connecting the frame and the cylinder; and a cam ring rotatably mounted on the adapter ring.

1,398,866. ELECTRIC COOKING OR HEATING VESSEL AND APPARATUS. CLARENCE HAROLD LAUTH, London, England. Filed Dec. 16, 1919. Serial No. 345,851. 4 Claims. (Cl. 219—37.)



1. An electric cooking and heating apparatus for use in a supply circuit of high amperage and low voltage comprising a vessel for receiving the contents to be heated, the shell of the vessel constituting the main resistance of the circuit wherein the heat necessary for heating purposes is developed, projecting contacts rigidly secured to, and in good thermal and electrical contact, with the shell of the vessel and terminals on the supply circuit, the said projecting contacts being capable of engaging in a readily detachable way with the said terminals, as set forth.

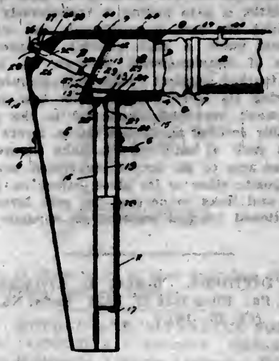
1,398,867. ELECTRIC COOKING OR HEATING VESSEL AND APPARATUS. CLARENCE HAROLD LAUTH, London, England. Filed Dec. 16, 1919. Serial No. 345,353. 10 Claims. (Cl. 219—47.)



1. In electric cooking and like heating apparatus comprising in combination a static transformer, having an open magnetic circuit, and a primary and a secondary electric circuit, and a heating device forming part of the secondary electric circuit of the transformer, a movable magnetic keeper and means by which the said keeper is attached to the stationary part of the apparatus, said means being such as to allow the keeper to be guided toward and complete the magnetic circuit when the secondary electric circuit is placed in position, without the keeper being in any way directly handled, as set forth.

1,398,868. NOZZLE. WILLIAM B. LEE, Seattle, Wash. Filed Aug. 3, 1920. Serial No. 401,039. 4 Claims. (Cl. 226—127.)

4. A nozzle comprising a body having a discharge end, a check valve in said body, a float for closing the valve, a slidably mounted needle in said body, means for positioning the needle in the path of the movement of the valve and adapted to be moved in one direction by the



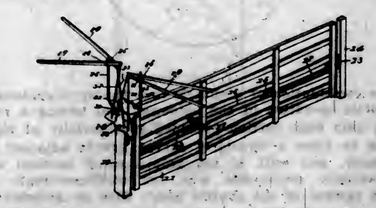
valve moving into a closed position, and means for moving the needle to force the valve into an open position.

1,398,869. SCREEN. GUSTAVE L. LE ROY, Kansas City, Mo. Filed Aug. 24, 1920. Serial No. 405,594. 2 Claims. (Cl. 156—38.)



1. A screen supporting frame of the character described comprising corner pieces of angle shape, pairs of side and end connecting bars forming the intermediate frame members, inwardly projecting flanges provided on the inner edge of said side and end bars, means for holding the frame in the window, including spring controlled dogs pivoted to the corner pieces at one end of the frame and having laterally extending points, and a spring plunger engaging the sill of the window.

1,398,870. GATE. EDWARD LIPSKA, Fennimore, Wis. Filed Jan. 13, 1921. Serial No. 437,006. 2 Claims. (Cl. 39—33.)



1. In a gate mounting and operating device, a post, a bracket thereon, a pintle having a crank arm extending

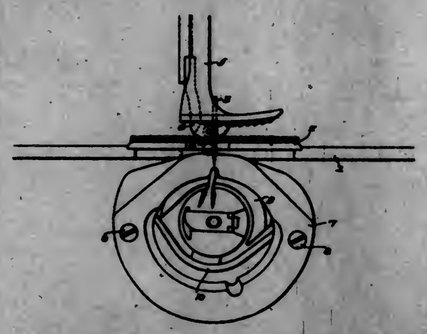
vertically through the bracket, a toothed segment on the said pintle above the bracket, an arm projecting from the pintle, a gate having a transversely disposed guide in which the arm is oscillatable and which contacts the said guide, a latch slidably mounted on the gate, means of communication between the latch and the arm, a toothed segment oscillatably mounted on the bracket having its teeth engaging the first mentioned toothed segment, standards connected to the post, collars adjustably secured on the standards, levers pivotally mounted on each of said collars, links connecting the levers on one arm to the second mentioned toothed segment at opposite sides of its pivot, levers on the opposite collar, and links connecting the said levers to the second mentioned toothed segment on opposite sides of its pivot.

1,398,871. DIVIDERS. ROBERT L. LIVINGSTON, Williamsport, Pa. Filed May 27, 1920. Serial No. 384,641. 3 Claims. (Cl. 33—191.)



1. An instrument of the class described having relatively slidable gage bars, a block provided with grooves mounting said bars and with a recess intermediate the grooves and communicating therewith, a gear member in said recess, teeth on the bars in mesh with those of the gear member, and a center point member to directly journal the gear, said center point passing through and beyond the gear and block.

1,398,872. SHUTTLE FOR SEWING-MACHINES. ALFRED F. MCCOLLUM, Bloomsburg, Pa., assignor of three-fifths to James Magee, 2d, Bloomsburg, Pa. Filed June 28, 1918. Serial No. 242,475. 1 Claim. (Cl. 112—196.)



The combination of a shuttle race having a guideway; a shuttle operative in the guideway and having a relatively thin edge portion extended substantially at right angles to form a circularly curved groove adjacent its periphery, one wall of the groove being inclined and substantially continuous with the correspondingly inclined surface of the shuttle body; with an annular retaining member having a guiding rib of angular cross section slidably fitting said groove of the shuttle.

1,398,873. EXPANDING DEVICE FOR PISTONS AND PLUNGERS. STANLEY L. MCNALLY and JOHN D. WILSON, Scranton, Pa. Filed Mar. 2, 1920. Serial No. 363,735. 8 Claims. (Cl. 74—108.)



1. In a piston, the combination with a body portion comprising a pair of cylindrical plates, one of which has a plurality of radial slots in one face thereof, and means for holding the one plate against the slotted face of the other, of a plurality of expansion members spaced around the periphery of said body portion and having arms established in the passages formed by said slots and projecting into the cavity where the said slots meet, and means established within the said cavity and operable from the exterior of the body portion for engaging the arms to force the expansion members outwardly from the body portion.

1,398,874. HOT TOP FOR INGOT-MOLDS. THOMAS MCNALLY and WILLIAM S. ORR, Massillon, Ohio, assignors to The Central Steel Company, Massillon, Ohio, a Corporation of Ohio. Filed Oct. 30, 1919. Serial No. 334,492. 4 Claims. (Cl. 22—147.)

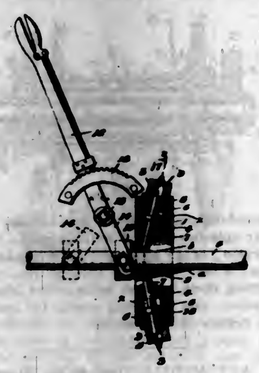


1. A hot top for ingot molds, comprising a collar of a size to rest upon and be supported by the top of the mold, said collar having a passage therethrough leading to the interior of the mold for access to said interior, and also having inner, outer, top and bottom walls defining a closed chamber, and heat insulating material located in said chamber and comprising the core material employed in the casting operation.

1,398,875. MECHANICAL BRAKE. MICHAEL D. MALONEY, Hadlock, Wash. Filed Feb. 20, 1920. Serial No. 360,124. 12 Claims. (Cl. 188—91.)

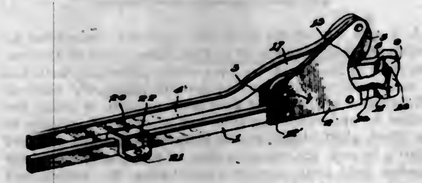
1. In combination, a shaft member, a housing member cooperating with said shaft member, a chamber provided in said housing member, a piston mounted in said chamber and having a rod extending toward said shaft member, means in said chamber for yieldingly urging said rod toward said shaft member, one of said

members being rotatable, a conical eccentric member mounted on one of said members, and means for moving



one of said members co-axially relatively to the other members whereby said rod will be brought into engagement with said eccentric member.

1,398,876. CHAIN-REPAIR TOOL. HENRY MATHIS, Virginia, Minn. Filed Dec. 18, 1920. Serial No. 431,660. 1 Claim. (Cl. 81—15.)



A tire-chain repair tool comprising a handle having one end laterally offset, a spreading point formed on and extending laterally inward at right angles to the extremity of said laterally offset end plates spaced apart and fixed to said handle and extending beyond one edge thereof, a jaw pivotally mounted between said plates and having a laterally offset end, a spreading point on and extending laterally inward at right angles to the extremity of said laterally offset end for coöperation with the spreading point on said handle; the said points having inner flat sides in closely adjacent parallel planes and also having outer sides tapered to points and the said points being reversely directed, a lever pivoted between the said plates at a point forwardly beyond and outwardly from the center of movement of the jaw and having at its forward end a rounded cam projection opposed to the outer edge of the jaw, and a spring interposed between the handle and the inner edge of the jaw and tending to force the jaw outwardly.

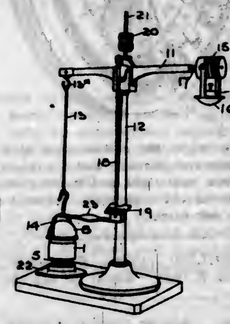
1,398,877. THREAD HOLDER AND TENSIONER. EDGAR C. MATSON, Handley, W. Va., assignor of one-half to J. A. B. Holt, Pratt, W. Va. Filed Jan. 19, 1920, Serial No. 352,374. Renewed Apr. 26, 1921. Serial No. 464,536. 6 Claims. (Cl. 242—150.)

1. In a thread tensioner for tensioning a plurality of threads, a shaft, a plurality of pairs of thread-clamping jaws mounted on said shaft and adjustable relative to one another along the shaft, means including a spring to press the pairs of jaws toward one another and thereby press the jaws of each pair toward one another, and a universal adjusting member operable to simultaneously change



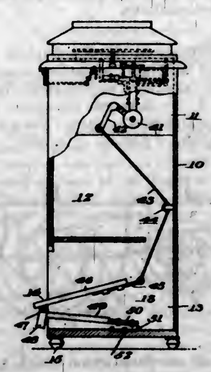
the tension of these pairs of jaws from one uniform tension to a different uniform tension.

1,398,878. METHOD AND APPARATUS FOR DETERMINING VISCOSITY. ANTHONY GEORGE MALDON MICHELL, Melbourne, Victoria, Australia. Filed Jan. 29, 1918. Serial No. 214,407. 18 Claims. (Cl. 265—11.)



1. The herein described method of determining the viscosity of a fluid which consists in measuring the period of time occupied for the complete separation, under the action of a predetermined force, of two closely adjacent surfaces having interposed between the same a film of the fluid of determinate thickness.

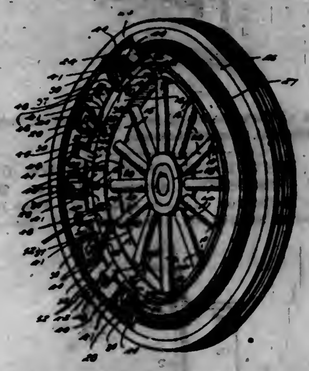
1,398,879. REWINDING MECHANISM FOR TALKING-MACHINES. NICALO MICUCCI, Philadelphia, Pa. Filed June 16, 1919. Serial No. 304,525. 1 Claim. (Cl. 185—39.)



The combination with a talking machine having a spring motor, of a rewinding mechanism comprising a compound

shaft including axially aligned sections, a slipping clutch connecting said sections, a second shaft disposed at right angles to the first mentioned shaft and geared thereto, spaced roller clutches carried by said second shaft, cranks connected to said clutches, operating pedals and flexible connections between the pedals and cranks.

1,398,880. RESILIENT WHEEL. Robert W. Millar, Wilmington, Del. Filed Oct. 2, 1919. Serial No. 327,868. 5 Claims. (Cl. 152—23.)



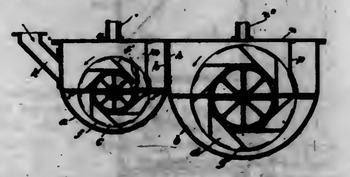
1. In a vehicle wheel the combination of a rigid wheel portion, a floating rim portion, and a sustaining medium interposed between said rigid and floating wheel portions comprising clustered and separately mounted elastic balls, substantially as set forth.

1,398,881. WIGGLER. Alpha E. Moore, Thorntown, Ind. Filed Oct. 9, 1920. Serial No. 415,922. 2 Claims. (Cl. 33—169.)



1. In a wiggler, a shank terminating in a socket, the said socket having slits forming segmental bearing members, a ball frictionally held by the said members in the socket, a shank rigid with the said ball and extending therefrom, the said shank having a longitudinally extending recess, and the said socket having a slot forming a continuation of the recess to receive the shank when the parts are in folded positions.

1,398,882. RECOVERING GASES WHICH HAVE BEEN ABSORBED BY SOLIDS. John Stanley Morgan, London, England, assignor to Thermal Industrial and Chemical (T. I. C.) Research Company, Limited, London, England, a British Company. Filed June 21, 1921. Serial No. 479,315. 3 Claims. (Cl. 252.)



1. A method of expelling gases which have been absorbed by solids, consisting in causing the solid to travel through a bath of liquid metal heated to the required temperature.

1,398,883. COASTER-BRAKE. August J. Meeman, Philadelphia, Pa., assignor to A. Mecky Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 24, 1921. Serial No. 480,145. 9 Claims. (Cl. 192—6.)



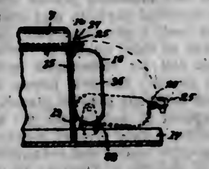
1. The combination of cranks respectively having integral tubular spindles formed with portions of other than circular section; brake shoes actuated by said portions of the spindles; a bolt extending through the crank spindles and permitting their relative rotation; a sleeve inclosing the brake shoes; and clutching means for operatively connecting the cranks and the sleeve.

1,398,884. AUTOMOBILE TOOL-BOX. Harry W. Ails, Cincinnati, Ohio. Filed Oct. 20, 1919. Serial No. 331,955. 7 Claims. (Cl. 224—29.)



1. A tool box of the character disclosed comprising an automobile body, a pair of end sections wider at the bottom than at the top facing each other and rigidly attached to said body member and projecting outwardly horizontally from a side wall of said body member, a hinge rod carried by and extending from one of said end sections to the other, a lid hinged at one edge to said hinge rod, and a latch to lock the opposite edge of said lid to said body member, said body member constituting the bottom and one side wall of said box.

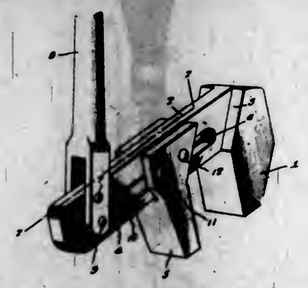
1,398,885. VEHICLE-CURTAIN CONTAINER. Harry W. Ails, Cincinnati, Ohio. Filed May 8, 1920. Serial No. 379,906. 2 Claims. (Cl. 224—29.)



1. In combination with a vehicle body seat frame, a curtain container having a curved lower portion to support the curtains, front and end sections, and a lip to engage and be latched to the seat frame, said container being pivotally attached to the vehicle body substantially coaxially with the curved lower portion, and forming with said vehicle body serving as one wall thereof, a closed container in one position and an open tray to discharge or receive the curtains in another position.

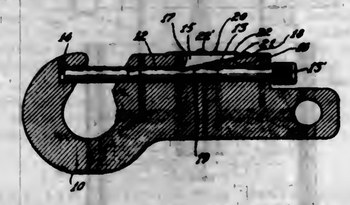
1,398,886. WRENCH. John Bancoman, Idaho Falls, Idaho. Filed April 26, 1921. Serial No. 464,733. 1 Claim. (Cl. 81—126.)

In a wrench, a stationary jaw having a longitudinally slotted shank, a movable jaw having a bifurcated end which receives the shank, an anti-frictional roller carried by the movable jaw and disposed in the slot and contacting with the opposed longitudinal walls thereof, a lever having a bifurcated end straddling and pivoted to



the shank adjacent to the outer end thereof, a link received in the slot of the shank and loosely pivoted in the bifurcated portion of the movable jaw and to the bifurcated end of the lever.

1,398,887. HOOK. Thomas J. Bond, Gadsden, Ala. Filed Apr. 8, 1921. Serial No. 459,583. 3 Claims. (Cl. 24—24.)



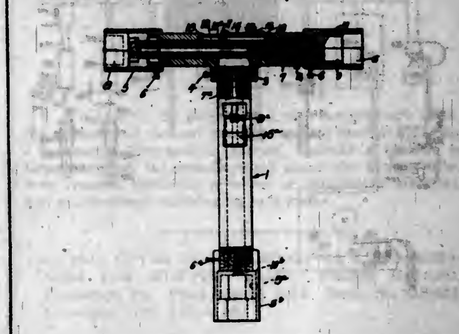
2. In combination, a hook including a shank, an enlarged portion formed on said shank and having a longitudinal bore, a locking element arranged within the bore for both sliding and rotary movement, said locking element being formed with a notch, said enlarged portion of the shank having a recess including an inclined bottom intersecting said bore, whereby said notch may be arranged within the recess by rotating the locking element, a latch reposing upon the inclined bottom of the recess and adapted to engage said notch to hold the locking element in active position, and means for limiting the movement of the latch element when retracted to open the hook.

1,398,888. SAFETY ATTACHMENT FOR GAS-STOVES. John E. Cadigan, New York, N. Y. Filed Apr. 5, 1920. Serial No. 371,334. 1 Claim. (Cl. 251—166.)



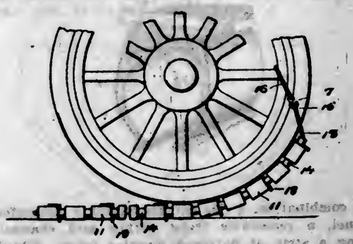
In a device of the character described, the combination of a member comprising attaching means and an upstanding flange provided with an aperture having abutment elements formed at its edge, a locking member adapted to be secured to for movement with the handle of a gas cock, said locking member being adapted to extend through said aperture and to engage with said abutment elements to prevent operation of said handle, one end of said locking member being formed into a handle for releasing said locking member from said abutment elements.

1,398,889. WRENCH. Joseph M. Clark, Apollo, Pa. Filed June 3, 1921. Serial No. 474,743. 1 Claim. (Cl. 81—121.)



In a wrench of the character described, a T-shaped body, outer socket members secured on the ends of the head of the body, an outer socket member secured on the outer end of the stem of the body, a rod slidably mounted in said head, inner socket members secured on the ends of said rod and slidable in the outer socket members of the head, means for securing said rod in adjustment, a rod slidable in said stem, an inner socket member secured on the outer end of said rod and slidable in the outer socket member of the stem, and means for securing the second mentioned rod in longitudinal adjustment.

1,398,890. TRUCK-WHEEL SHOE. William Coatsworth, Highland Park, Mich. Filed Jan. 20, 1919, Serial No. 272,131. Renewed Oct. 15, 1921. Serial No. 508,050. 3 Claims. (Cl. 180—7.)

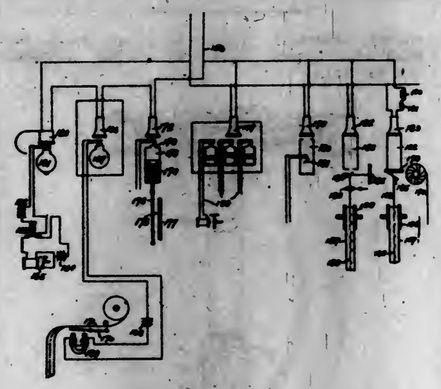


1. A tread block of substantially rectangular formation, and a bent plate carried by said block adjacent a longitudinal edge thereof, one portion of said plate projecting beyond the tread surface of the block to form a traction spur and another portion extending inwardly from the longitudinal edge and bearing on the inner surface of said block.

1,398,891. POLISH AND PROCESS OF MAKING THE SAME. William H. Damon, Chicago, Ill. Filed July 22, 1920. Serial No. 398,204. 8 Claims. (Cl. 134—24.)

8. A polish for automobiles and the like consisting of a cream-like liquid containing water and a finely powdered mild abrasive insoluble in water and in oil, the abrasive and oil of paraffin series being in a state of suspension more or less permanent.

1,398,892. TELEGRAPHY. HERBERT G. DOSSER, Granville, Ohio. Filed Oct. 6, 1916. Serial No. 124,106. 2 Claims. (Cl. 178—47.)



1. In an electric transmission system, a tunable sound resonator, an element mounted to move bodily in the direction of air currents associated with said resonator when said resonator responds to sounds, and electric contacts operated by said element.

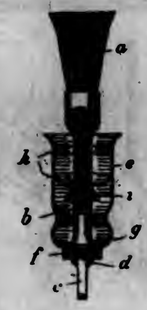
1,398,893. GROUND-GRIPPER DETACHABLE TREAD. EMIL ERIK, Ossining, N. Y., assignor, by direct and mesne assignments, of two-tenths to Elroy I. Quick, Ossining, N. Y., and three-tenths to Alden W. Harvey, New York, N. Y. Filed July 26, 1920. Serial No. 398,850. 1 Claim. (Cl. 152—17.)



In combination, a tire carcass having a circumferential channel, a removable tread within said channel comprising a strip of flattened annular fabric, folded back and forth upon itself, the folds of which are disposed laterally in relation to the tire carcass, said tread being secured to said carcass by means of circumferential tie wires penetrating each fold of the tread, and an interrupted circumferential rib arrranged centrally of said channel secured to said carcass by means of rivets, that portion of the tread member coming in contact with said interrupted rib having cut away portions adapted to receive the rib.

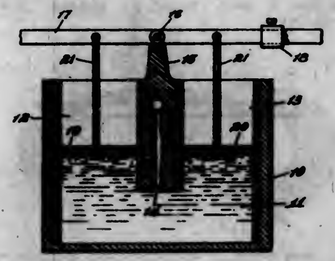
1,398,894. DRIP-GUARD FOR BRUSHES. FRANZ GAMM, Fort Wurttemberg, near Metz, Germany. Filed Mar. 5, 1915. Serial No. 12,467. 1 Claim. (Cl. 15—38.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

A drip-guard for use on shaving and other brushes, comprising in combination a receptacle in the form of a handle, having an opening in its top and deflectors inside



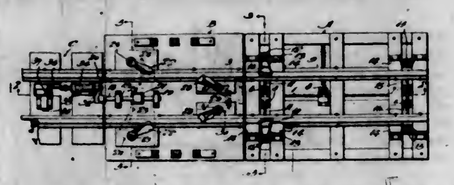
of the wall, and a deflector arranged on the shaft of the brush.

1,398,895. DAMPER-REGULATOR. FRANK GRAY, Philadelphia, Pa. Filed Oct. 11, 1919. Serial No. 329,923. 2 Claims. (Cl. 236—26.)



1. In combination with furnace and its boiler, the furnace being provided with a damper, a regulator comprising a casing containing a liquid adapted to be placed under pressure by steam generated within the boiler of the furnace, a pair of pistons disposed within said casing and arranged to be acted upon by the liquid therein under pressure, said pistons being of different diameters, and a lever connected with the damper and connected with said pistons at opposite sides of its fulcrum.

1,398,896. MINE-CAR-CONTROLLING MECHANISM. GEORGE FOSTER, Bicknell, Ind. Filed Aug. 14, 1919. Serial No. 317,491. 3 Claims. (Cl. 187—97.)



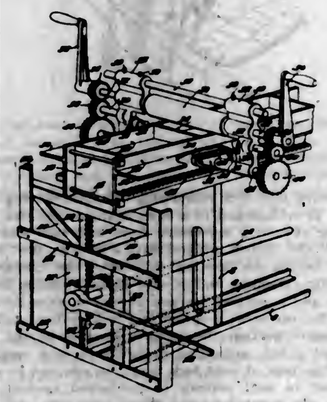
1. A car stop adapted to be pivotally mounted adjacent to a track-rail and comprising a wheel engaging portion adapted to extend over the rail's head and a rail-engaging portion adapted to extend under the rail's head, substantially as shown and for the purpose specified.

1,398,897. DRAG-SCRAPING APPARATUS. WILLIAM E. HALS, Fort Washington, Pa., assignor to R. H. Beaumont Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 11, 1920. Serial No. 357,768. 1 Claim. (Cl. 254—190.)



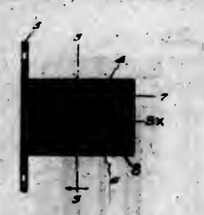
The combination in a hoisting apparatus, of a flanged post, two sets of sheaves mounted on the post, each set of sheaves having a carrier provided with extensions encircling one of the flanges of the post; a frame having trunnions mounted in each carrier, one of the trunnions being hollow for the passage of a hoisting rope, the two sets of sheaves being located close together, one sheave of each set being adjustable in respect to the other sheave; and means for retaining each adjustable sheave in the position to which it is adjusted.

1,398,898. MACHINE FOR MAKING CONCRETE BLOCKS. THEODOR E. HOHENMANN, Boston, Mass., assignor to Dura Construction Company, Boston, Mass., a Corporation of Massachusetts. Filed July 6, 1920. Serial No. 394,074. 23 Claims. (Cl. 25—21.)



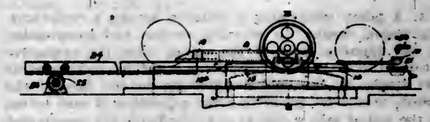
1. In a machine for making concrete blocks, the combination of an adjustable form to receive the concrete mixture and means locked to said form for exerting a rolling pressure upon the material to force it into said form.

1,398,899. FUEL-MIXER. FRANCIS F. HUGHES, Atlanta, Ga. Filed Sept. 28, 1920. Serial No. 413,331. 3 Claims. (Cl. 48—180.)



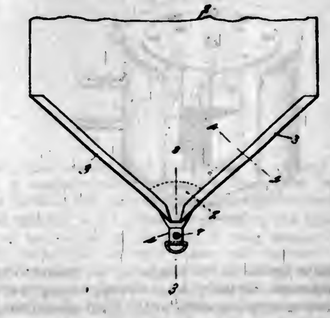
3. A device for the purpose described comprising a cylindrical shell and element arranged in said shell and having a contracted intermediate portion, whereby a passage is formed through the element of the shape of a Venturi tube, said element including a frame of reticulated material, and an absorbent covering on said frame.

1,398,900. COVER FOR SOAKING-PITS AND MECHANISM FOR SHIFTING SAME. WALTER KENNEDY, Pittsburgh, Pa. Filed Aug. 16, 1919. Serial No. 318,053. 7 Claims. (Cl. 110—176.)



1. The combination of a cover, a truck movable independent of the cover, means for raising the truck when shifted horizontally and means whereby the truck will engage and lift the cover, when the truck is raised.

1,398,901. END-BINDER FOR THE RECORD-SHEETS OF PLAYER-PIANOS. OTTO L. KOCH, Jr., Woodlynne, N. J. Filed Sept. 30, 1920. Serial No. 413,670. 1 Claim. (Cl. 84—162.)



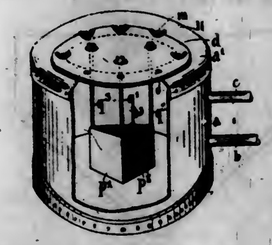
As a new article of manufacture, a one-piece record sheet binder, comprising a body, arms of comparative reduced width reaching laterally from opposite ends of the body and folded throughout their lengths transversely upon themselves and having adhesive means at their inner sides to secure them on the end portion of a record sheet, and a tab reaching from the body and arranged in lapped relation to the inner ends of the folded portions of the arms; the said tab being folded lengthwise on itself to hold a finger piece and having its opposed portions permanently connected together by an eyelet to form the tab into a loop.

1,398,902. AIR-PUMP. LEVI LEANDER LARSON, Los Angeles, Calif. Filed Dec. 22, 1920. Serial No. 432,606. 4 Claims. (Cl. 230—27.)



1. A pump comprising a cylinder having a reciprocating piston, means for creating suction and compression at the opposite faces of the piston upon the respective strokes thereof, means comprising a spring compressed at one stroke by the fluid compression at one face of the piston, means for permitting the expansion of said spring at the end of said stroke so as to discharge the compressed fluid to the cylinder at the opposite face of the piston, and means for discharging the fluid at said face of the piston upon the opposite compression stroke.

1,398,903. ELECTRICALLY-HEATED LIQUID-HEATER. CLARENCE HAROLD LAUTH, London, England. Filed June 16, 1920. Serial No. 389,470. 5 Claims. (Cl. 219—39.)



1. A liquid heater to be heated by an electric current of high amperage and low voltage flowing through the shell of the heater having a portion of the shell constituting the heating resistance through which the electric current is passed, made separate and detachable from the remainder of the shell of the vessel intended to receive the liquid to be heated, as and for the purposes set forth.

1,398,904. PLIERS. EDWARD M. LOFTUS, St. Paul, Minn. Filed Aug. 9, 1920. Serial No. 402,158. 1 Claim. (Cl. 294—41.)

The combination with a pair of pliers having a pair of jaws pivotally secured together and provided with shoulders disposed transversely of their gripping ends, of a lateral extension formed on one jaw adjacent the pivotal connection, a dog having one end pivotally secured to said



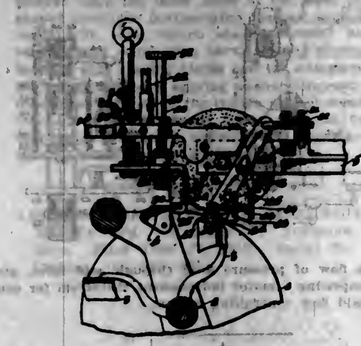
extension and its opposite end beveled for adjustable engagement with the outer end of the shoulder of the other jaw to limit the opening movement of the jaws.

1,398,905. AUTOMOBILE-LOCK. RONALD LUFLOW, Phoenix, Ariz. Filed May 20, 1920. Serial No. 382,791. 1 Claim. (Cl. 70—90.)



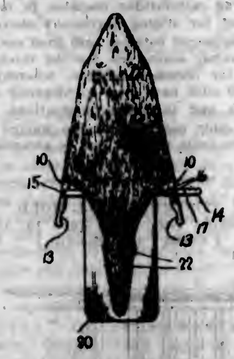
A steering post lock comprising a bracket having a back adapted to be fastened to a dash board or the like, a web extending angularly downward from said back and terminating in and formed integral with a steering post column support having an opening to receive the column; the rearwardly extending end of said support having two flat surfaces and a central concave curved surface intermediate the flat surfaces; a cylindrical lock casing received in said concave portion the concave portion having at its lower end a hole extending inwardly to said opening to receive the bolt of said lock which is adapted to engage a member in said column to be locked against movement; a clip member having flanges extending outwardly from a central concave curved portion, and means for fastening said clip to the support, said concave surfaces matching to form a cylindrical hole into which fits said lock casing, and a base in the lower portion of said hole against which abuts the end of said cylindrical lock casing.

1,398,906. LAWN-MOWER GRINDER. RAMON H. MADDEN, Los Angeles, Calif. Filed July 23, 1920. Serial No. 398,158. 6 Claims. (Cl. 51—249.)



1. In a lawn mower grinder having a supporting frame secured to a lawn mower and a grinding wheel carried thereby, a guide plate arranged to engage a blade of the lawn mower, and an operating connection for pivotally and longitudinally adjusting said guide plate.

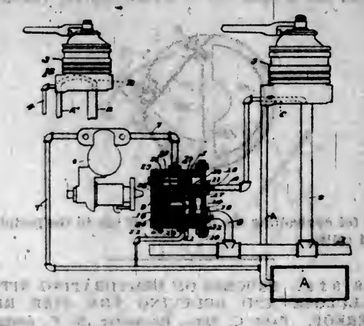
1,398,907. FUR-STRETCHER. HENRY MILTON MONTGOMERY, Cedar Vale, Kans. Filed Mar. 9, 1920. Serial No. 364,598. 1 Claim. (Cl. 149—21.)



A fur stretcher comprising a pair of members pivoted at one end for movement toward and away from each other, a bar for holding said members fixed relatively in adjusted position and an elongated member slidably mounted upon the bar, said elongated member comprising a pair of flat sections secured together, and having their opposed faces formed with transverse grooves to provide a bar receiving channel at one side of the transverse center of the elongated member and fastening devices carried by said elongated member.

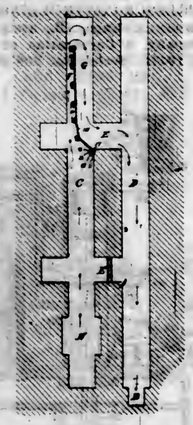
1,398,908. SAFETY ATTACHMENT FOR AIR-BRAKE SYSTEMS. WALTER M. MOORE, Portsmouth, Va. Filed Mar. 22, 1919. Serial No. 284,511. 5 Claims. (Cl. 303—14.)

1. In an air brake system of train control, the combination with a brake pipe, an engineer's brake valve connected therewith, a feed valve and a main reservoir pipe, of an attachment connected to the feed valve, the brake valve, the brake pipe and the main reservoir pipe and comprising a casing, valves operating therein, one of said valves automatically acting upon a reduction in pressure in the brake pipe to cause operation of the other valve by main



reservoir pressure to cut off connection between the feed valve and the brake valve.

1,398,909. COAL-MINE CURTAIN-ROD. JOHN M. NORTH, Sparta, Ill. Filed Oct. 10, 1918. Serial No. 257,626. 1 Claim. (Cl. 156—19.)



A coal mine curtain rod comprising a tubular lower member, a longitudinally adjustable upper rod member having a pointed end having telescopic relation with the lower rod member, a set screw for retaining the upper rod member at any adjusted elevation, a ring member longitudinally adjustable on said upper rod member, a set screw for retaining said ring member at adjusted position along said upper rod member, an upwardly extending curtain supporting lip fixed to said ring member and a screw threaded member carried in the lower end of the tubular lower member which extends below the lower edge thereof to permit locking of the curtain rod in a position between the floor of a working place in a coal mine and the roof thereof.

1,398,910. INKING-ROLLER. CLAUDE L. POST, Chicago, Ill. Filed Feb. 19, 1921. Serial No. 446,363. 12 Claims. (Cl. 101—367.)

1. In a device of the kind described, an inking roller having a reservoir therein opening on the periphery of

said roller and adapted to receive a supply of ink, a cover fitting over said reservoir at said peripheral opening, and

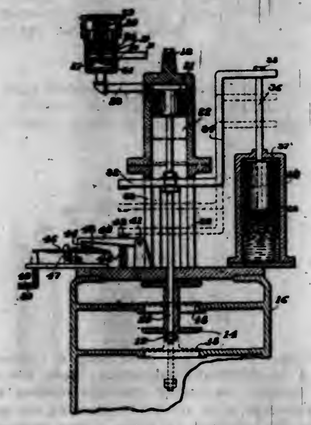


means for controlling the discharge of ink to the periphery of said roller.

1,398,911. PROCESS OF DEHYDRATING NITROCELLULOSE AND REDUCING THE FIRE RISK THEREOF. Paul C. Smel, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 9, 1920. Serial No. 402,478. 5 Claims. (Cl. 52—20.)

1. In the process of preparing nitrocellulose, the step which comprises treating nitrocellulose carrying water, with a liquid comprised chiefly of effectivly anhydrous butylic alcohol of low volatility.

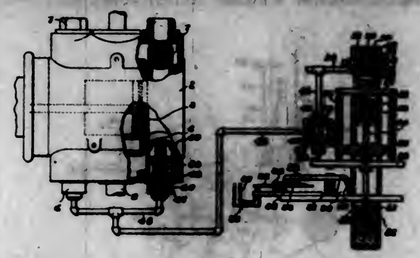
1,398,912. COMPRESSOR-CONTROLLING MECHANISM. Wade H. Wineman, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 22, 1917. Serial No. 208,432. 47 Claims. (Cl. 230—24.)



1. In a compressor controlling apparatus, a plurality of controlling mechanisms for controlling the operation of a compressor, and means for governing the operation of both said controlling mechanisms normally disengaged from one of the latter but engageable therewith to control the same.

1,398,913. COMPRESSOR-CONTROLLING MECHANISM. Wade H. Wineman, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 22, 1917. Serial No. 208,433. 27 Claims. (Cl. 230—24.)

1. In combination with a compressor having automatically acting inlet valves, an unloading mechanism, means for controlling said unloading mechanism comprising a pressure fluid inlet to said mechanism, means for controlling a flow of pressure fluid through said inlet, and means comprising a motor independent therefrom for controlling said flow controlling means.

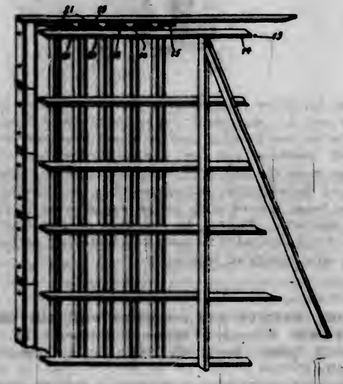


1,398,914. SLIDE-RULE. Robert A. Pierce, Los Angeles, Calif. Filed Feb. 25, 1920. Serial No. 361,331. 3 Claims. (Cl. 235—70.)



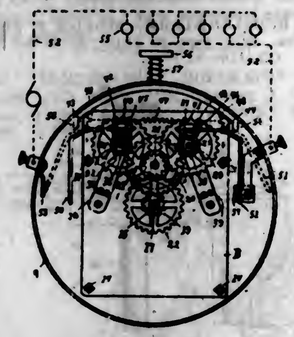
1. A slide rule having relatively fixed spaced scales for respective cubical foot and weight factors in an example, the cubic foot scale having the usual logarithmic graduations and having calibrations readable in inch terms, a runner arranged for sliding movement above said fixed scales, a slide arranged between said fixed scales and having two logarithmic scales one for the thickness dimension and one for length dimension, whereby when the runner and said slide have been coördinately arranged on breadth, length and thickness graduations of a given character the cubic content and the weight of a given material for the cubic content can be ascertained on the weight scale.

1,398,915. CONCRETE-WALL MOLD. Charles S. Porter, Houston, Tex. Filed June 11, 1920. Serial No. 388,280. 1 Claim. (Cl. 25—131.)



A cement wall mold comprising outer and inner frames, a plurality of separate vertically disposed trough shaped members disposed with their edges against the outer side of the inner frame with their bight portions in spaced relation to the inner side of the frame and having their sides arranged in spaced relation, vertically extending nailing strips disposed between and serving as spacing means for the trough shaped members, reinforcing bars secured upon the inner faces of the sides of the trough shaped members, horizontally disposed spacing blocks located with each trough shaped member and engaging against said reinforcing bars, spacing members disposed between said spacing blocks and the outermost portion of the trough members, spacing washers disposed between the outermost portions of the trough shaped members and the inner face of the outer frame, and tie bolts passing through both frames, through said spacing washer, the spacing block and the spacing member.

1,398,916. TIME-ACTUATED ELECTRICAL SWITCH MECHANISM. Millard F. Roebling, Cincinnati, Ohio. Filed June 27, 1919. Serial No. 307,201. 6 Claims. (Cl. 200—38.)



1. A time controlled switch comprising a rotatably mounted releasing member, an electrical switch arm actuated by said rotatably mounted releasing member to open or close an electrical circuit, a clock mechanism, a resiliently actuated cam member driven rotatably by said clock mechanism to release said rotatably mounted releasing member, and a setting spindle having a cam engaging and restraining head, said spindle being rotatably adjustable to predetermine the period of release of said cam and rotatably mounted releasing member.

1,398,917. HEAT-RESISTING IRON. Pierce D. Schenck, Dayton, Ohio, assignor to The Duriron Company, Inc., a Corporation of New York. Filed Apr. 12, 1920. Serial No. 373,326. 2 Claims. (Cl. 75—1.)

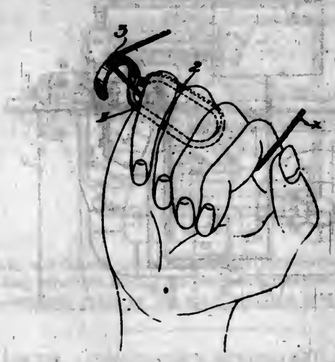
1. A heat resisting iron composition comprising approximately 10 per cent. nickel, 3 per cent. chromium and the rest substantially all iron.

1,398,918. ACID-RESISTING IRON. Pierce D. Schenck, Dayton, Ohio, assignor to The Duriron Company, a Corporation of New York. Filed Apr. 22, 1920. Serial No. 375,668. 2 Claims. (Cl. 75—1.)

1. An iron composition comprising 8 to 18 per cent. silicon, 5 to 20 per cent. copper, 5 to 20 per cent. nickel and the balance iron.

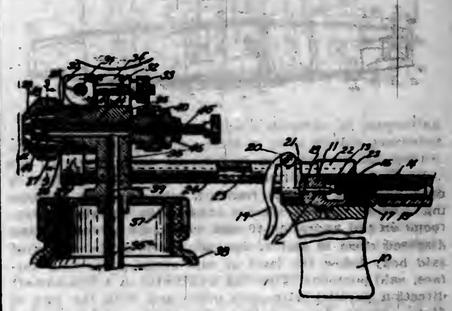
1,398,919. HAND TWINE-CUTTER. Hugo Schwartino, Green Bay, Wis. Filed Mar. 1, 1920. Serial No. 362,313. 1 Claim. (Cl. 30—14.)

As a new article of manufacture, a one-piece twine cutter comprising a loop adapted to be fitted over the little finger and one or more adjacent fingers, the palm stretch of the loop being circular in cross section, and the outer stretch thereof being flat in cross section to thereby prevent wabble of the loop, a flat hooked-blade



extending from the loop approximately parallel to the little finger and beyond the same to constitute a receiver for a cord that is passed through the closed palm, whereby said cord is severed incidental to a pull strain being put upon it.

1,398,920. AIR-BRUSH. Augustine Shelburne, South Pasadena, Calif. Filed Mar. 2, 1921. Serial No. 449,157. 7 Claims. (Cl. 91—45.)

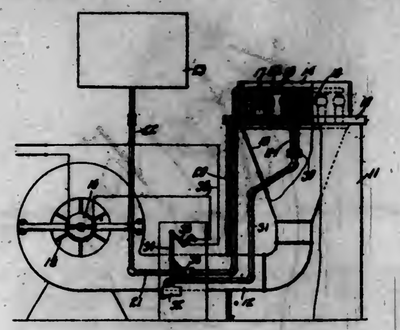


1. In an air brush, the combination with an angular fitting through which is formed a liquid passageway and one leg of said angular fitting being tapered, of a tubular member applied to the tapered leg of said fitting, a conical air nozzle carried by said tubular member and a pivotally mounted adjustable link that forms readily releasable means for securing said tubular member to said angular fitting.

1,398,921. HEATING PLANT. Fred Hubbert Short, Waterville, Me. Filed June 12, 1920. Serial No. 388,512. 17 Claims. (Cl. 158—53.)

3. A heating plant comprising, a base embodying a plate, a plurality of burner units arranged above the plate in geometrical relation and communicating with the under side of the plate, a retort in the form of a pipe bent to correspond to the geometrical arrangement of the burner units located above such units extending

through the center of the base and discharging slightly below the same, an air conduit arranged below the base



embracing the discharge from the retort and communicating with the burner units and means to supply air to the conduit.

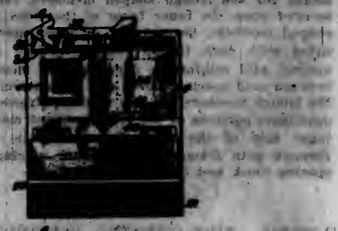
1,398,922. FLYING-MACHINE. Rexford M. Smith, Washington, D. C., assignor, by mesne assignments, to Connecticut Aircraft Company, New Haven, Conn., a Corporation. Filed Sept. 30, 1909. Serial No. 520,240. 2 Claims. (Cl. 244—2.)



1. A combined air and marine craft comprising in combination, a body or frame, a biplane aerial supporting surface carried thereby, two main sustaining pontoons on the underside of said body, said pontoons being disposed close to and at opposite sides of the center of said body below the level of said aerial supporting surface, said pontoons extending lengthwise in a fore-and-aft direction parallel with each other and with the line of flight, means for propelling the craft in the air and on the water and lifting the craft from the water into the air, adjustable controlling means for steering the craft and maintaining its longitudinal and lateral stability, and a pair of fixed centrally located parallel vertical fins in vertical alinement with the outer walls of the pontoons, said fins being arranged above the upper plane of the biplane aerial supporting surface on opposite sides of the longitudinal axis of the machine and parallel with the line of flight for maintaining the direction of travel of the craft and overcoming lateral leeway.

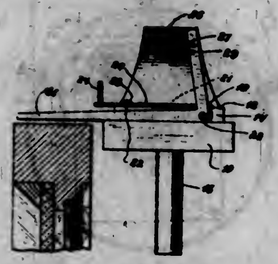
1,398,923. AUTOMOBILE-SIGNAL. Leslie W. Soules, Seattle, Wash. Filed Aug. 7, 1920. Serial No. 401,877. 1 Claim. (Cl. 116—42.)

In an automobile signal, a box having a series of orifices in parallel arrangement adjacent to the upper portion of said box, an elongated orifice formed beneath said first mentioned orifices, doors adapted to close two of said first mentioned orifices, a hinged member adapted to normally close said elongated orifice, means for moving said doors and hinged member independently through an arc of 90 degrees and an arrow attached to each of said doors,



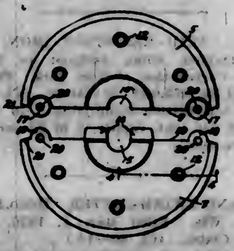
so as to point in opposite directions, the contour of said arrows being invisible when said doors are in their normal position.

1,398,924. BURGLAR-ALARM. William B. Stephens, Sunset, Tex. Filed Sept. 20, 1919. Serial No. 325,059. 1 Claim. (Cl. 116—87.)



A burglar alarm comprising a plate, a tubular member or barrel carried thereby and adapted to receive a cartridge, a pivotally mounted apertured cover plate adapted to be moved over the end of the cartridge to hold the latter in position, a stop pin extending upwardly from the first mentioned plate for engagement within a slot provided in the cover plate, whereby the aperture in the latter will be properly positioned over the cartridge, a spring having one end secured to the first mentioned plate, a firing pin carried by the opposite end of the spring and adapted to pass through the aperture in the pivoted cover plate for contact with the cartridge, a trigger engageable with the spring plate and located in the path of a window sash, whereby the latter will operate the trigger to release the firing pin.

1,398,925. FURNITURE-BUMPER. Harry F. Tyler, Redondo Beach, Calif. Filed Sept. 3, 1920. Serial No. 407,848. 3 Claims. (Cl. 45—127.)



1. A furniture bumper comprising a plate adapted to be received around the shank of a caster, said plate

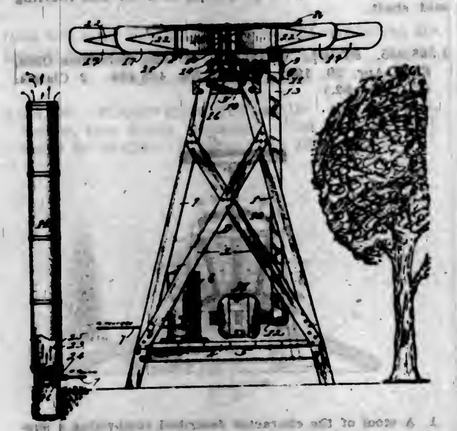
comprising separable pivotally connected sections having means for connecting the swinging ends of said pivotally connected sections, and a cooperating tongue and groove at the meeting edges of said sections between said pivotal connection and said connecting means.

1,398,926. BEARING MATERIAL. Edwin E. Waite, Framingham, Mass., assignor, by mesne assignments, of one-half to Multicolor Company, Framingham, Mass. Filed Mar. 20, 1918. Serial No. 15,944. 14 Claims. (Cl. 64—19.)



4. An article of the character described, consisting of asbestos fabric impregnated with binding and anti-friction material, baked to a hard consistency and containing lubricating material.

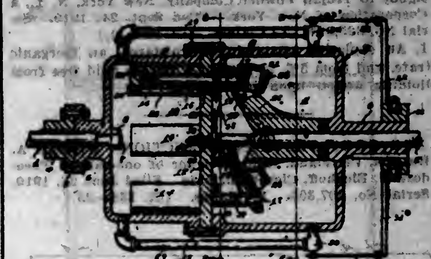
1,398,927. TEMPERATURE-MODERATOR FOR ORCHARDS AND THE LIKE. Lester J. Whitlock, Pomona, Calif. Filed Dec. 31, 1919. Serial No. 349,838. 3 Claims. (Cl. 126—59.5.)



1. A temperature moderator for orchards and the like comprising a horizontally rotatable fan disposed at a height greater than the trees, a supporting frame for said fan, a plurality of heating stacks apart from and surrounding said frame, open at their upper ends, a burner within each stack whereby heated air is delivered from the open end of said stack, and means for rotating said fan whereby air currents are set up to distribute the heated air throughout the orchard.

1,398,928. POWER-TRANSMISSION MECHANISM. Romeo L. Williamson, Mount Vernon, Ohio. Filed May 2, 1918. Serial No. 232,600. 17 Claims. (Cl. 192—59.)

1. In a transmission mechanism of the character described, the combination with a driving and a driven shaft, of means for forming a driving connection between said shafts comprising a casing member rigidly carried by one of said shafts, said casing being divided into a high and a low pressure compartment, a pump structure operatively located between said compartments, means associated with the other of said shafts for deriving its rotary motion by cooperation with said pump structure,



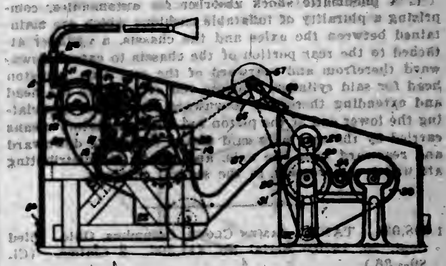
said last named shaft from active cooperation with said pump structure during the continued rotation below a predetermined speed of the shaft carrying said casing.

1,398,929. COMBINATION SPRING AND SHOCK-ABSORBER. Hugo A. Becker, Baltimore, Md., assignor of forty-five per cent. to George A. Aman, Baltimore, Md., and twenty-five per cent. to Frank Huart, Baltimore, Md. Filed Dec. 17, 1919. Serial No. 345,501. 3 Claims. (Cl. 267—20.)



3. The combination in a shock absorber, of supporting means, a body of circular form in cross section journaled and rockable about its axis in said supporting means, a gudgeon carried by said body off the center thereof, movable means carried by the supporting means and against which said gudgeon is arranged to work, and means also carried by the supporting means to yieldingly resist movement of said movable means in one direction.

1,398,930. COTTON PICKING AND CLEANING. George R. Bennett, Glen Osborne, Pa. Filed Nov. 15, 1920. Serial No. 424,115. 16 Claims. (Cl. 56—12.)



1. The method of picking and cleaning cotton herein described which consists in removing the lint from a boll by a rapidly moving stream of air, causing such portion of lint to move laterally from such stream of air,

1,398,981. MANUFACTURE OF NITROSTARCH EXPLOSIVES. Jesse B. Bronstein, Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y., a Corporation of New York. Filed Sept. 24, 1919. Serial No. 325,927. 12 Claims. (Cl. 52—11.)

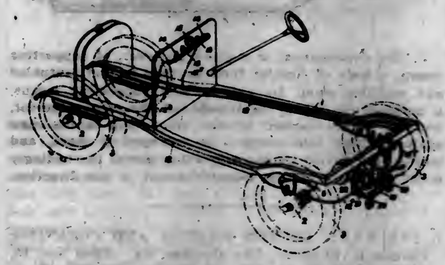
1. An explosive comprising nitro-starch, an inorganic nitrate, and from 5% to 12% of a viscous fluid free from colloiding action upon nitro-starch.

1,398,982. TRACK CONSTRUCTION. William A. Braden, Cleveland, Ohio, assignor of one-half to Theodore H. Eickhoff, Cleveland, Ohio. Filed June 28, 1919. Serial No. 307,395. 17 Claims. (Cl. 238—25.)



1. In railroad track construction, the combination of rails, means connecting with the rails and extending downwardly into the roadbed for restraining lateral movement of the rails, and means underlying said rails in extensive contact with the roadbed for supporting said rails, said last means being unattached to the rails or other supporting elements.

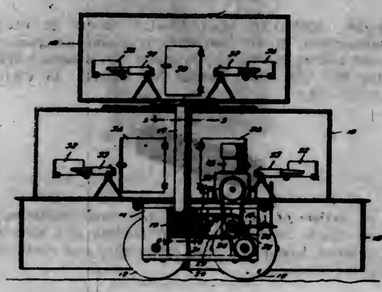
1,398,933. PNEUMATIC SHOCK-ABSORBER. John Westropp Brereton, deceased, by Robert Kean Brereton, executor, Athlone, Ireland. Filed Oct. 7, 1921. Serial No. 506,145. 5 Claims. (Cl. 267—65.)



1. A pneumatic shock absorber for automobiles, comprising a plurality of inflatable cushions which are maintained between the axles and the chassis, a cylinder attached to the rear portion of the chassis to extend downward therefrom and rearward of the rear axle, a piston head for said cylinder, a piston rod attached to the head and extending therefrom downward, means for associating the lower end of the piston rod with oscillatory means carried by the rear axle said means extending downward and rearward from the axle, and means for distributing air under compression to the several cushions.

1,398,934. TANK. James Cloud, Columbus, Ohio. Filed Sept. 20, 1920. Serial No. 411,393. 3 Claims. (Cl. 89—36.)

1. An armored motor car of the class described comprising a wheel supported frame, a substantially diamond shaped metallic shell mounted on said frame and having a plurality of openings therein, means for closing said openings, a metallic apron extending downwardly from said shell, a shaft journaled in suitable bearings on said frame and extending upwardly through said shell, means for rotating said shaft, a substantially diamond shaped



turret mounted upon the upper end of said shaft having a plurality of openings therein, means for closing said openings and means for propelling said car and rotating said shaft.

1,398,935. STOOL. Charles F. Miller, Columbus, Ohio. Filed Apr. 29, 1921. Serial No. 465,438. 2 Claims. (Cl. 155—52.)

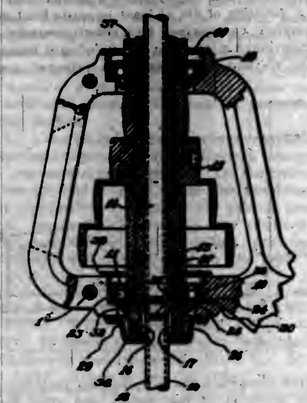


1. A stool of the character described comprising a supporting frame, a seat, a stem depending from said seat, said stem being provided with a threaded lower portion, a member threaded to the lower portion of said stem and permitting of vertical adjustment on the part of said seat, a second member loosely carried by said stem above said first named member, a rebound spring positioned between said members and serving to space the latter, and a plurality of shock absorbing springs, extending between said members and said supporting frame.

1,398,936. LUBRICATING MEANS. William J. Bayrer, Hartford, Conn.; Homer H. Bayrer, administrator of said William J. Bayrer, deceased, assignor to Robert G. Henry, West Hartford, Conn. Filed Sept. 18, 1916. Serial No. 334,631. 4 Claims. (Cl. 64—56.)

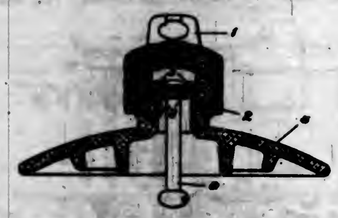
1. Lubricating means including in combination with a bearing support, a shaft or spindle extending therethrough, and an annular ball bearing interposed in substantially horizontal relation between the bearing support and the spindle, a lubricant container comprising an annularly grooved member associated with the non-rotative member of the ball bearing, and a lubricant distributer having an inclined wall depending into the groove of the container

and extending toward the ball race, the distributer being adapted to rotate with the spindle, whereby centrifugal



force will cause lubricant on the inclined wall of the distributer to be directed into the ball race.

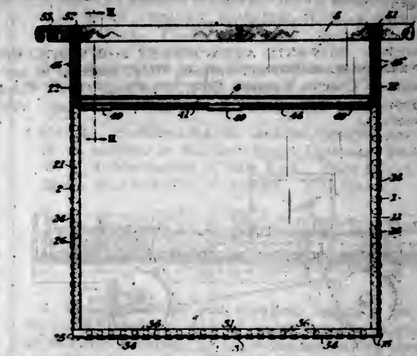
1,398,937. SUSPENSION-INSULATOR. Max Carolus, Teltow, near Berlin, Germany. Filed Sept. 29, 1921. Serial No. 504,243. 3 Claims. (Cl. 173—318.)



1. In a suspension insulator an insulating body with a head formed with a cavity therein, a supporting ledge in said cavity, a bolt, a conical head on said bolt, a malleable metal ring adapted to be slipped over said bolt and to be expanded by the conical head and pressed against said supporting ledge throughout its periphery so as to prevent said conical head from leaving said cavity, said ring being contracted at its lower edge to engage said bolt, said ring being provided with a circumferentially weakened area adjacent said contracted end, whereby during expansion said ring will bend at its predetermined line of weakness.

1,398,938. FILM-HOLDER. Albert K. Chapman, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 9, 1920. Serial No. 429,540. 8 Claims. (Cl. 95—100.)

1. A frame for holding film during fluid treatment and drying said frame comprising two spaced channel members, the flanges of each of which extend toward the other member, a transverse bar connecting the lower portions of said members, a transverse element connecting the upper portions of said members at one side of the channels thereof, the flange of each member nearest said element having



fluid-draining openings and the other flange of each member having a smooth continuous inner film-guiding face.

1,398,939. CELLULOSE-ESTER COMPOSITION. Hans T. Clarke, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 27, 1920. Serial No. 433,398. 9 Claims. (Cl. 106—37.)

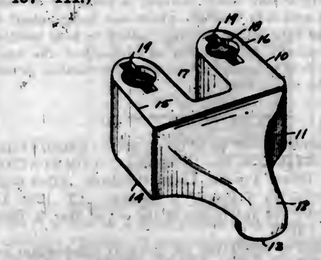
1. A composition of matter comprising a cellulose ester and a phenolic ester of phthalic acid.

1,398,940. INNER TUBE AND METHOD OF MAKING SAME. James M. Combs, Akron, Ohio, assignor of one-half to V. R. Smithfield, Cleveland, Ohio. Filed Mar. 25, 1920. Serial No. 368,664. 7 Claims. (Cl. 154—14.)



6. That method of manufacturing tubular articles comprising, coating textile fabric on both sides with unvulcanized rubber gum, then folding the fabric backward and forward upon itself so as to form a plurality of closely spaced plait-like folds, then joining the lateral edges of the fabric in the form of a tube and subjecting the same to vulcanization.

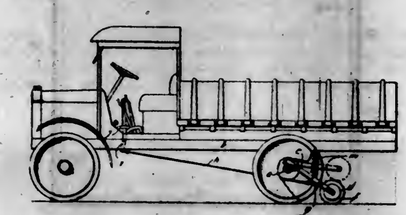
1,398,941. BATH COMBINATION AND NOZZLE. Benjamin Franklin Gable, San Francisco, Calif. Filed July 24, 1920. Serial No. 398,734. 12 Claims. (Cl. 137—111.)



7. A hollow tile block having means for attachment to water service pipes and having on its front face a dis-

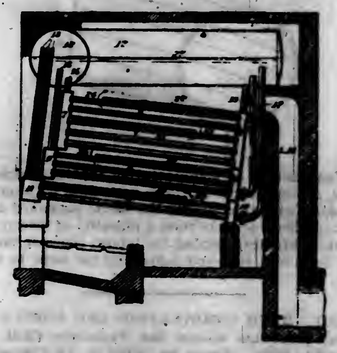
charge mouth from its chamber and means in the block for mixing streams from the pipes before discharge at the mouth.

1,398,942. NON-SKID ATTACHMENT FOR VEHICLES. NEWTON M. MCDANIEL, Carlton, Oreg., assignor of one-half to Charles Leonard Starr, Portland, Oreg. Filed Sept. 24, 1920. Serial No. 412,443. 7 Claims. (Cl. 188—5.)



1. In combination with a vehicle, a frame pivoted on an axis coincident with that of the rear axis, means for holding said frame normally off the ground, a drag-wheel journaled in said frame, means for applying the drag-wheel by causing the same to bear on the ground, and operable with variable degrees of force, and means for holding said drag-wheel against rotation, such means included in said drag-wheel applying means.

1,398,943. WATER-TUBE BOILER. JEAN VAN OOSTERWYCK, Louvain-Ans, Belgium. Filed Mar. 25, 1913. Serial No. 756,754. 12 Claims. (Cl. 122—291.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

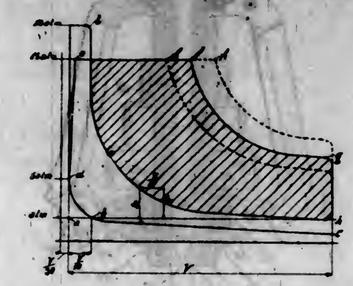


1. In a multitubular boiler, having a plurality of tube bunches, front and rear headers which are independent of each other, said tube bunches being united by said headers into elements equally independent of each other, the heating surface of said independent bunches decreasing gradually toward the fire-grate.

1,398,944. METHOD OF IGNITION AND COMBUSTION OF COMBUSTIBLES IN INTERNAL-COMBUSTION ENGINES. HENRI PIERRE, Liege, Belgium. Filed Sept. 9, 1912. Serial No. 719,443. 5 Claims. (Cl. 123—1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

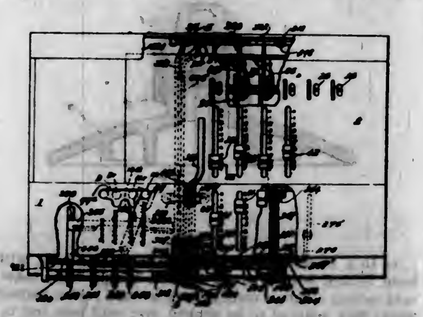
1. The method of operating an internal combustion engine, which comprises admitting into the cylinder a volume of combustible mixture or firing charge equal to a small fraction of the whole capacity of the cylinder, said charge including a quantity of air not exceeding that strictly necessary for its complete combustion, compressing said charge in a substantially undiluted condition, igniting said charge, admitting into the cylinder a combustible mixture including a quantity of air at least equal to that necessary for its complete combustion and simultaneously igniting said last mentioned mixture by means of said firing charge.

3. In the method of operating an internal combustion



engine which comprises the introduction into the cylinder of separate amounts of fuel before and after the piston has reached its dead point, the steps which consist in introducing with the first amount of fuel an amount of air not exceeding that strictly necessary for its complete combustion, limiting the introduction of said fuel and air to a small portion of the suction or intake stroke, and preventing the ingress of air and fuel during the remainder of the suction or intake stroke.

1,398,945. CALCULATING-MACHINE. ALEXANDER RECHNITZER, Berlin, Germany, assignor to Autarit-Gesellschaft m. b. H., Vienna, Austria. Filed Oct. 12, 1908. Serial No. 457,414. 10 Claims. (Cl. 235—62.)



1. In a calculating machine, the combination with recording devices, of a row of two or more slidable buttons which are set to indicate a certain figure to be recorded, a movable lever connected with the recording devices, and means to move the row of buttons indicating the figure to be printed laterally of the movable lever and to adjust the same thereby according to this figure.

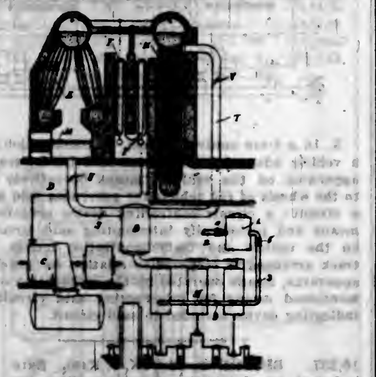
3. In a calculating machine, the combination with recording devices, of a row of two or more stepped disks set to indicate a certain figure to be recorded, a movable lever connected with the recording devices, and means to slide the lever along the row of disks indicating figures to be recorded and to oscillate the lever thereby according to those figures.

5. In a calculating machine, the combination with two or more registering devices comprising stepped disks, of slides movable against the stepped disks to different extents depending upon the position of each disk, a member movable along said slides and adapted to be thereby oscillated in a manner depending upon the possible movements of said slides, and means connected with said oscillated member to record the positions of the registering devices.

6. In a calculating machine, the combination with two or more registering devices, of means movable against the registering devices to different extents depending upon the position of each registering device, a member adapted to be oscillated in a manner depending upon the possible movements of aforesaid means, and means connected with said oscillated member to record the positions of the registering devices.

8. In a multiplying machine, the combination with a multiplicand register, product wheels, a multiplying mechanism communicating between the multiplicand register and the product wheels, means for operating said multiplying mechanism to register the partial products in the wheels, means for performing the required addition, a platen, and devices for recording the multiplier, the multiplicand and the product on the same platen.

1,398,946. POWER ENGINE PLANT. WILHELM SCHMIDT, Wilhelmshöhe, near Cassel, Germany, assignor, by mesne assignments, to Superheater Company, a Corporation of Delaware. Filed Jan. 26, 1915. Serial No. 4,458. Renewed Nov. 20, 1919. Serial No. 339,400½. 6 Claims. (Cl. 60—11.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a power plant, the combination with a combustion engine; a boiler and a furnace for the same; a pipe connecting the space below the grate of said furnace with another space, and another pipe so arranged as to be adapted to conduct the exhaust gases of said engine to said last named space; of means for feeding the said engine with compressed air, substantially as and for the purpose described.

1,398,947. MOTOR-FUEL FOR AEROPLANES. WALTER T. SCHREIBER, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed June 25, 1918. Serial No. 241,795. 1 Claim. (Cl. 44—9.)

A fuel comprising from 35% to 50% of ethyl alcohol, from 25% to 35% of benzol, and from 20% to 40% of ethyl ether.

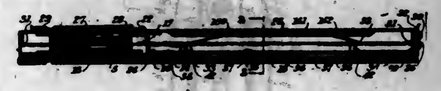
1,398,948. MOTOR-FUEL. WALTER T. SCHREIBER, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed June 25, 1918. Serial No. 241,797. 2 Claims. (Cl. 44—9.)

1. A fuel consisting of 90 to 92 parts by volume of a petroleum distillate having a density between 30° B. and 50° B., and about 10–8 parts by volume of a very volatile combustible constituent.

1,398,949. CELLULOSE-ACETATE COMPOSITION. ALBERT F. SULMA, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 6, 1921. Serial No. 435,508. 8 Claims. (Cl. 106—40.)

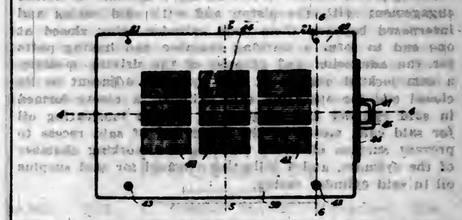
1. A composition of matter comprising acetone-soluble cellulose acetate and ethyl butyrate.

1,398,950. CAMERA-BACK. JULIEN TESSIER, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed May 3, 1920. Serial No. 378,612. 7 Claims. (Cl. 95—2.)



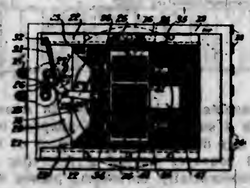
1. The combination with a camera having a rear compartment, the front wall of which contains a plurality of exposure openings, of a plateholder having therein a plurality of exposure openings, there being on the camera and the plateholder coöperating means whereby the openings in both will be exactly registered when the plateholder is positioned in the compartment.

1,398,951. PHOTOGRAPHIC-PLATE HOLDER. JULIEN TESSIER, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed May 3, 1920. Serial No. 378,613. 8 Claims. (Cl. 95—2.)



1. A photographic plate holder having a front wall with an exposure opening, a spring permanently attached to the holder, a removable back for the holder independent of the spring, the spring being inoperative when the back is removed, but operative to press an inserted plate into contact with the front wall when the back is in place on the holder.

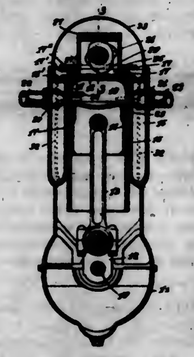
1,398,952. COLOR-SCREEN CARRIER. JULIEN TESSIER, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed May 3, 1920. Serial No. 378,614. 7 Claims. (Cl. 95—2.)



1. In combination, a casing, a hinged door adapted to carry a lens in a fixed position, said door carrying a plate slidable thereon to two determinate positions, said plate having a focusing opening which at one position is opposite said lens, and carrying a color filter which at the other of said positions is opposite said lens, an operating

handle for said plate on the front of the door, and a spring controlled by said handle and tending to hold said plate in each of its positions.

1,398,953. INTERNAL-COMBUSTION ENGINE. CHARLES BUSCHINO, Long Island City, N. Y., assignor of one-half to William Charles St. Clair, New Rochelle, N. Y. Filed Oct. 2, 1919. Serial No. 327,844. 4 Claims. (Cl. 123—75.)



1. In an engine, a stationary cylinder casing, a reciprocating piston located in said casing, a cylinder in sliding engagement with the piston and with said casing and interposed between them, said cylinder being closed at one end to form a working chamber and having ports for the admission and exhaust of the driving medium, a cam located outside of said cylinder, adjacent to its closed end for operating said cylinder, a recess formed in said cylinder and adapted to contain lubricating oil for said cam, means at the upper end of said recess to prevent surplus oil from reaching the working chamber of the cylinder, and a collecting channel for said surplus oil in said cylinder casing.

REISSUES.

15,234. LOADING-MACHINE. NEWTON L. BARGER, Braeholm, and JAMES P. DONALDSON, Morgantown, W. Va., assignors, by direct and mesne assignments, to Ford-Barger Machinery Co., Braeholm, W. Va., a Corporation of West Virginia. Filed June 24, 1921. Serial No. 480,234. Original No. 1,307,335, dated June 24, 1919, Serial No. 210,186, filed Jan. 3, 1918. 14 Claims. (Cl. 262—23.)

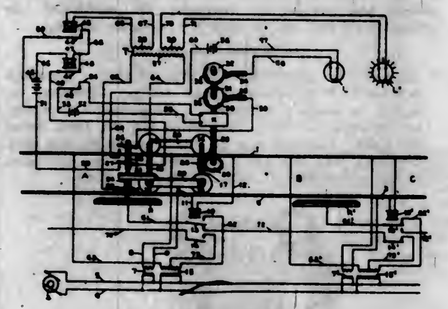


8. In a machine for loading coal in mines, the combination with a supporting frame adapted to rest upon and slide in any direction over the floor of the mine, of an elongated conveyer having a receiving portion extending in substantially horizontal planes adjacent the mine floor, devices upon the frame to actuate the several elements of the machine, an elongated gathering bar extending parallel with and adjacent the advancing side of the conveyer and adapted to revolve about its longitudinal axis, and teeth upon the gathering bar adapted to engage material at the level of the mine floor and lift it onto said conveyer.

15,235. SUBSTITUTE MATERIAL FOR MAKING BOX-TOES FOR SHOES. ANSEL C. DENNING, Johnson City, N. Y. Filed Mar. 9, 1920. Serial No. 364,517. Original No. 1,308,262, dated May 13, 1919, Serial No. 253,900, filed Sept. 13, 1918. 4 Claims. (Cl. 92—3.)

1. The felted material for making box shoe toes composed solely of cotton fabric rags, tannery hair and a thermoplastic binder.

15,236. AUTOMATIC TRAIN-CONTROL SYSTEM. WINTHROP K. HOWE, Rochester, N. Y., assignor to General Railway Signal Company, Gates, N. Y., a Corporation of New York. Filed Oct. 10, 1921. Serial No. 506,902. Original No. 1,306,380, dated June 10, 1919, Serial No. 88,362, filed Apr. 1, 1916. 18 Claims. (Cl. 246—49.)



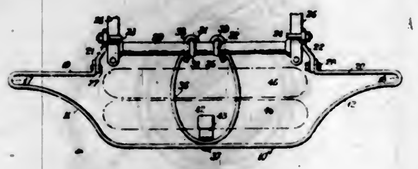
3. In a train control system, in combination; a track; a vehicle adapted to travel on said track; train control apparatus on the vehicle; means operatively connected to the wheels of the vehicle for governing said apparatus; a circuit; a circuit controlling device actuated by said means and periodically interrupting said circuit; means on the vehicle and traffic controlled means along the track arranged in coöperative relation for governing said apparatus, means operated by the coöperation of said last mentioned means for interrupting said circuit; and an indicating device included in said circuit.

15,237. BUILDING-BLOCK. KARL ERIK WILHELM JAGDMANN, Stockholm, Sweden. Filed Dec. 22, 1920. Serial No. 432,596. Original No. 1,306,962, dated June 17, 1919, Serial No. 255,712, filed Sept. 25, 1918. 4 Claims. (Cl. 72—68.)



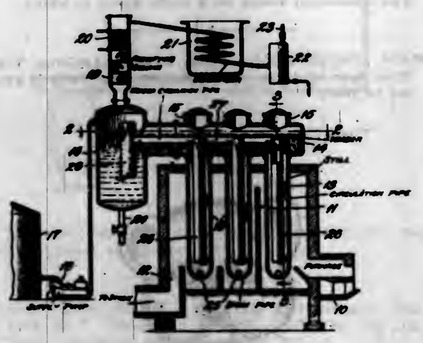
1. Method of producing floors from rows of blocks placed beside one another, consisting in providing the joint surfaces of the blocks with mortar, preferably resting the blocks of the first row on a side support, and a removable support of a width corresponding to that of one or more blocks or about to such width, passing reinforcing metal through the blocks in each row, clamping the blocks of the row or rows together by means of said reinforcing metal so as to render the row or rows self sustaining, shifting after the completion of the said row or rows before the hardening of the mortar the removable support to the side a distance corresponding to the width of one or more blocks, placing the blocks of the subsequent row or rows close to the first row or rows on the removable support, and prosecuting the process in the manner set forth.

15,238. AUTOMOBILE-BUMPER. RICHARD T. NEWTON, New York, N. Y. Filed Mar. 8, 1921. Serial No. 450,603. Original No. 1,325,868, dated Dec. 16, 1919, Serial No. 297,287, filed May 15, 1919. 21 Claims. (Cl. 293—55.)



3. An automobile bumper comprising a spring impact member, an associated spring member normally engaging the mid area of the impact member to reinforce the same, but readily disengaged therefrom, and means for so supporting one of said bumper members on the automobile as to permit the ready separation of said members when disengaged.

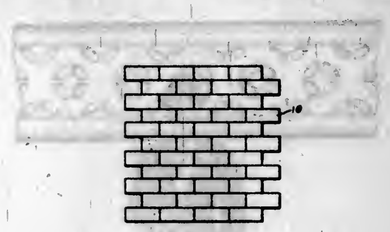
15,239. METHOD OF AND APPARATUS FOR CRACKING HYDROCARBONS. FRANK PURNING, Pittsburgh, Pa. Filed Sept. 8, 1921. Serial No. 499,352. Original No. 1,358,174, dated Nov. 9, 1920, Serial No. 138,142, filed Dec. 21, 1916. 29 Claims. (Cl. 196—25.)



1. In apparatus of the character described, the combination of a vertically disposed still and means for maintaining a body of incompletely cracked liquid at a point adjacent to such still, a conduit connecting said body of liquid to the lower end of said still, the space between the walls of the still and the exterior of such conduit being relatively small, and means for supplying a gas or vapor to the bottom of the conduit in order to accentuate circulation, or decomposition, substantially as described.

15,240. WOOD-BLOCK PAVING. GEORGE W. WARMOTH, Indianapolis, Ind. Filed June 17, 1921. Serial No. 478,397. Original No. 1,351,546, dated Aug. 31, 1920, Serial No. 256,850, filed Oct. 4, 1918. 5 Claims. (Cl. 94—11.)

1. A pavement or flooring formed of rows of blocks, each row comprising a plurality of blocks adjacent each other, each block having a plurality of transversely extending and angularly disposed kerfs cut in the under side thereof so as to join at the bottom, the kerfs in



the adjacent rows of blocks registering with each other, and strips angular in cross section inserted in said kerfs for securing the blocks together as a pavement.

15,241. CONDENSER AND METHOD OF MAKING THE SAME. ALBERT PRUESSMAN, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 14, 1920. Serial No. 388,995. Original No. 1,275,468, dated Aug. 13, 1918, Serial No. 183,131, filed July 27, 1917. 10 Claims. (Cl. 250—41.)

1. The method of treating a condenser impregnated in the presence of heat, which consists in applying pressure to the impregnated condenser as it cools and then removing the pressure and reheating the condenser to a temperature of not less than 120° F. for a period of not less than three hours without pressure applied thereto.

DESIGNS.

59,805. TOY. C. GEORGE ADAMEC, Milwaukee, Wis. Filed Apr. 14, 1921. Serial No. 461,419. Term of patent 7 years.



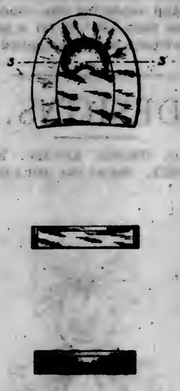
The ornamental design for a toy, as shown.

59,806. TIRE. ARCHIBALD K. ALLEN and CLARENCE A. ALLEN, Seattle, Wash. Filed Jan. 19, 1921. Serial No. 438,456. Term of patent 3½ years.



The ornamental design for a tire, as shown.

59,807. RUBBER HEEL. PASQUALE ALTRUDA, Providence, R. I. Filed Nov. 15, 1920. Serial No. 424,310. Term of patent 14 years.



The ornamental design for a rubber heel, as shown.

59,808. PRINTED FABRIC. EVA B. BATTERTON, Springfield, Ill. Filed May 24, 1921. Serial No. 472,262. Term of patent 7 years.



The ornamental design for a printed fabric as shown.

59,809. TRAFFIC-GUARD. MILTON C. BENHAM, Elkhart, Ind. Filed Apr. 30, 1921. Serial No. 465,848. Term of patent 14 years.



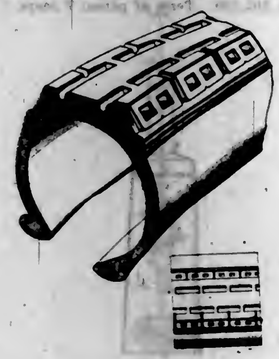
The ornamental design for a traffic guard, as shown.

59,810. PAPER DOLL. FLORA BENSON, Angleton, Tex. Filed June 30, 1920. Serial No. 393,187. Term of patent 14 years.



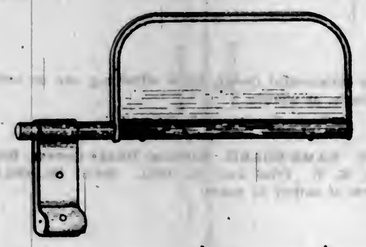
The ornamental design for a paper-doll, as shown.

59,811. AUTOMOBILE-TIRE. WALTER PHILIP BRAENDER, Montclair, N. J. Filed Jan. 31, 1921. Serial No. 441,487. Term of patent 14 years.



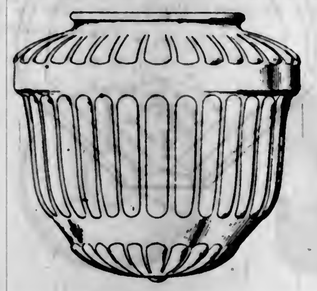
The ornamental design for an automobile tire, as shown.

59,812. DIRECTION-INDICATOR FOR MOTOR-VEHICLES. SAMUEL CARY BRENDEL, McKeesport, Pa. Filed Aug. 5, 1920. Serial No. 401,529. Term of patent 7 years.



The ornamental design for a direction indicator for motor vehicles, as shown.

59,813. LAMP-GLOBE. CHARLES A. CAMPBELL, New York, N. Y. Filed Apr. 3, 1920. Serial No. 371,162. Term of patent 7 years.



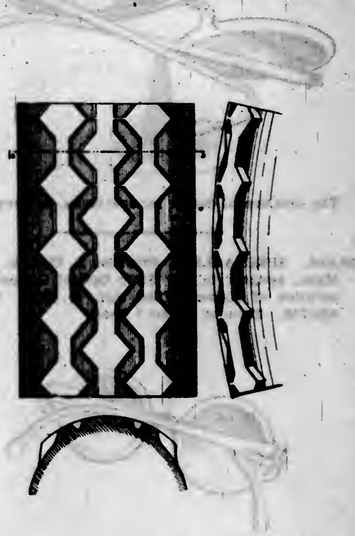
The ornamental design for a lamp globe, as shown.

59,814. DOLL. EDSON B. CARD, White Plains, N. Y. Filed Feb. 23, 1921. Serial No. 447,331. Term of patent 3½ years.



The ornamental design for a doll, as shown.

59,815. TIRE. JAMES CHRISTY, Cleveland, Ohio. Filed July 6, 1920. Serial No. 394,372. Term of patent 14 years.



The ornamental design for a tire, as shown.

59,816. WHISTLE. EDWARD H. CLARKE, Peoria, Ill. Filed Aug. 21, 1920. Serial No. 405,175. Term of patent 14 years.



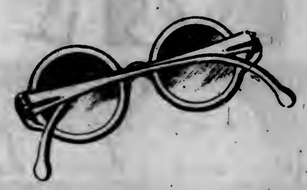
The ornamental design for a whistle, as shown.

59,817. SPECTACLES. STEPHEN J. CLULEE, Attleboro, Mass., assignor to Bay State Optical Company, a Corporation of Maine. Filed Mar. 23, 1921. Serial No. 454,917. Term of patent 7 years.



The ornamental design for spectacles, as shown.

59,818. SPECTACLES. STEPHEN J. CLULEE, Attleboro, Mass., assignor to Bay State Optical Company, a Corporation of Maine. Filed Apr. 8, 1921. Serial No 459,759. Term of patent 7 years.



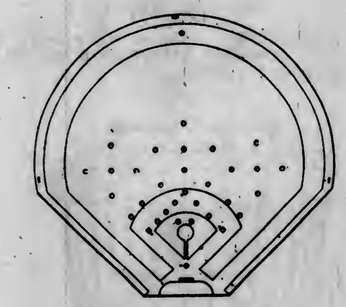
The ornamental design for spectacles, as shown.

59,819. SIFTER-TOP CAN OR SIMILAR RECEPTACLE. MARTHA HALOWELL CONNON, Baltimore, Md., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md., a Corporation of New Jersey. Filed June 7, 1919. Serial No. 302,599. Term of patent 7 years.



The ornamental design for a sifter top can or similar receptacle, as shown.

59,820. GAME-BOARD. RICHARD HENRY COTTER, Brooklyn, N. Y. Filed July 21, 1921. Serial No. 486,611. Term of patent 3½ years.



The ornamental design for a game board, as shown.

59,821. ELECTRIC-LAMP FIXTURE. JOSEPH M. CAUCHY, New York, N. Y. Filed Oct. 8, 1920. Serial No. 415,709. Term of patent 3½ years.



The ornamental design for an electric lamp fixture as shown.

59,822. ELECTRIC-LAMP FIXTURE. JOSEPH M. CAUCHY, New York, N. Y. Filed Oct. 11, 1920. Serial No. 416,880. Term of patent 3½ years.



The ornamental design for an electric lamp fixture as shown.

59,823. CAKE OF SOAP. SAMUEL CUMMINS, New York, N. Y. Filed Oct. 15, 1920. Serial No. 417,242. Term of patent 14 years.



The ornamental design for a cake of soap, as shown.

59,824. URN. GEORGE E. CURTISS, New Britain, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a Corporation of Connecticut. Filed May 19, 1921. Serial No. 470,901. Term of patent 14 years.



The ornamental design for an urn, as shown.

59,825. EMBLEM, BADGE, RING, STICKPIN, BROOCH, WATCH-CHARM, LAPEL-BUTTON, OR OTHER ARTICLE OF SIMILAR NATURE. EDWARD C. DENNIS and ROBERT M. SHIPLEY, Wichita, Kans. Filed Mar. 19, 1921. Serial No. 453,752. Term of patent 7 years.



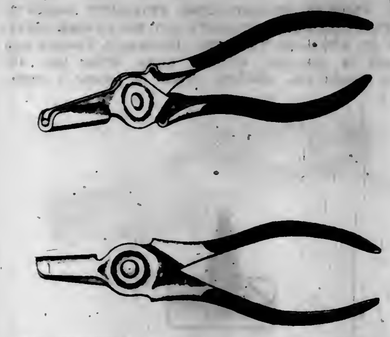
The ornamental design for an emblem, badge, ring, stickpin, brooch, watch-charm, lapel button or other article of similar nature as shown.

59,826. HORSE-COLLAR. MIKE DUNAS, Chicago, Ill. Filed May 31, 1921. Serial No. 473,917. Term of patent 7 years.



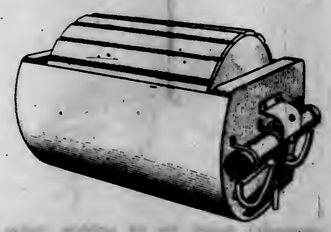
The ornamental design for a horse collar, as shown.

59,827. PINCERS. ALFRED L. EVENDEN, JAMES D. CASEY, and JOSEPH A. CASEY, Rome, N. Y. Filed July 16, 1921. Serial No. 485,306. Term of patent 14 years.



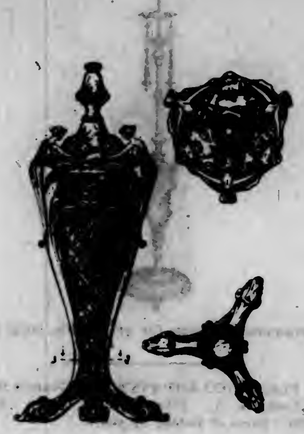
The ornamental design for pincers, as shown.

59,828. WASHING-MACHINE. JOHN J. FINUCANE, Rochester, N. Y., assignor to Washerette Corporation, Rochester, N. Y., a Corporation of New York. Filed June 30, 1921. Serial No. 481,667. Term of patent 14 years.



The ornamental design for a washing machine, as shown.

59,829. COMBINED PERFUMER AND DISINFECTOR. ALFRED J. FLAUDER, Bridgeport, Conn., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn., a Corporation of Connecticut. Filed Apr. 8, 1921. Serial No. 459,804. Term of patent 7 years.



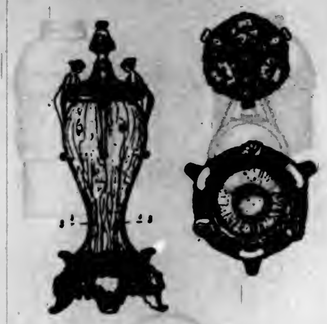
The ornamental design for a combined perfumer and disinfector or similar article as shown.

59,830. COMBINED PERFUMER AND DISINFECTOR. ALFRED J. FLAUDER, Bridgeport, Conn., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn., a Corporation of Connecticut. Filed Apr. 9, 1921. Serial No. 460,094. Term of patent 7 years.



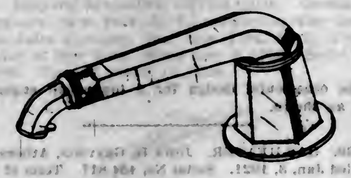
The ornamental design for a combined perfumer and disinfector or similar article as shown.

59,831. COMBINED PERFUMER AND DISINFECTOR. ALFRED J. FLAUDER, Bridgeport, Conn., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn., a Corporation of Connecticut. Filed Apr. 12, 1921. Serial No. 460,806. Term of patent 7 years.



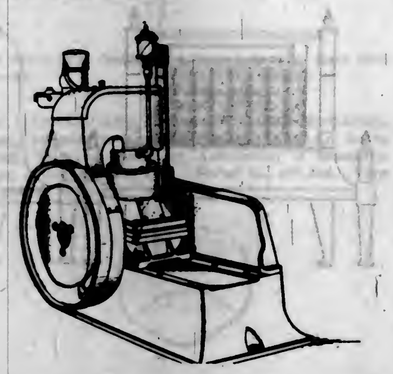
The ornamental design for a combined perfumer and disinfector or similar article as shown.

59,832. TONE-ARM FOR PHONOGRAPHS. ELMER FLETCHER, Chicago, Ill., assignor to Fletcher-Wickes Co., Chicago, Ill., a Corporation of Illinois. Filed Aug. 15, 1921. Serial No. 492,525. Term of patent 14 years.



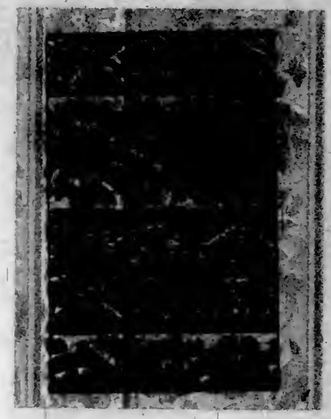
The ornamental design for a tone arm for phonographs as shown.

59,833. ENGINE-FRAME. CHARLES E. GAMBILL, Oak Park, Ill. Filed Mar. 24, 1919. Serial No. 284,871. Term of patent 7 years.



The ornamental design for an engine frame, as shown.

59,834. FABRIC. Gustav Gruenstein, Baldwin, Long Island, N. Y., assignor to Golding Bros. Company, New York, N. Y., a Corporation of New York. Filed July 16, 1921. Serial No. 485,296. Term of patent 7 years.



The ornamental design for a fabric, as shown.

59,835. FABRIC. Gustav Gruenstein, Baldwin, Long Island, N. Y., assignor to Golding Bros. Company, New York, N. Y., a Corporation of New York. Filed July 16, 1921. Serial No. 485,297. Term of patent 7 years.



The ornamental design for a fabric, as shown

59,836. FABRIC. George Greenheimer, Baldwin, Long Island, N. Y., assignor to Golding Bros. Company, New York, N. Y., a Corporation of New York. Filed July 22, 1921. Serial No. 487,189. Term of patent 7 years.



The ornamental design for a fabric, as shown.

59,837. FABRIC. George Greenheimer, Baldwin, Long Island, N. Y., assignor to Golding Bros. Company, New York, N. Y., a Corporation of New York. Filed July 22, 1921. Serial No. 487,189. Term of patent 7 years.



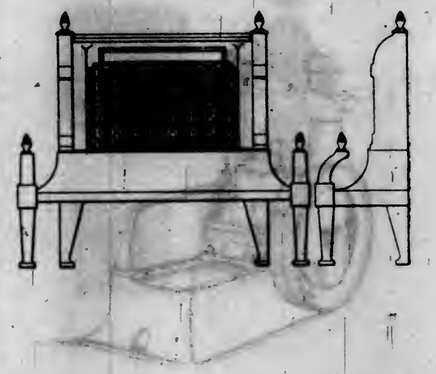
The ornamental design for a fabric, as shown.

59,838. TOWER-BELL ENGAGEMENT-RING. Johann L. Gossens, Providence, R. I. Filed Aug. 22, 1921. Serial No. 497,522. Term of patent 7 years.



The ornamental design for a tower bell engagement ring as shown.

59,839. GAS-HEATER. John H. Grayson, Athens, Ohio. Filed Jan. 3, 1921. Serial No. 434,817. Term of patent 14 years.



The ornamental design for a gas heater, as shown.

59,840. ATTACHMENT-PLUG OR CONNECTOR. William Henry Hasselwood, Hartford, Conn., assignor to The Arrow Electric Company, Hartford, Conn., a Corporation of Connecticut. Filed June 25, 1921. Serial No. 480,454. Term of patent 14 years.



The ornamental design for an attachment plug or connector, as shown.

59,841. SEWING-MACHINE COVER-CASE. Gronon G. Hammouck, New York, N. Y., assignor to The Grand Union Sales Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 7, 1920. Serial No. 372,069. Term of patent 14 years.



The ornamental design for a sewing machine cover case, as shown.

59,842. LENS-BLANK. Harry W. Hill, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Apr. 21, 1921. Serial No. 463,406. Term of patent 14 years.



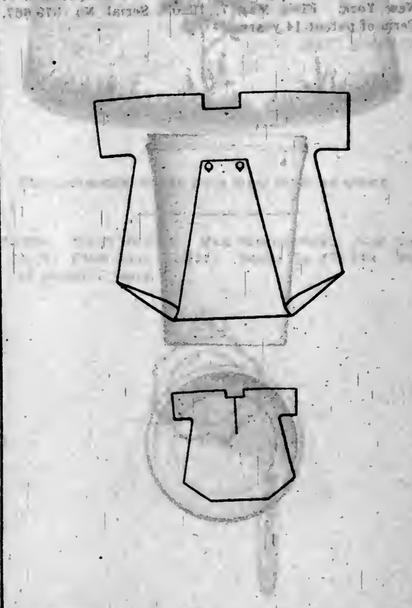
The ornamental design for a lens blank substantially as illustrated.

59,843. ENGINE-CASING. Carl C. Hinkley, Detroit, Mich. Filed Nov. 10, 1919. Serial No. 337,604. Term of patent 14 years.



The ornamental design for an engine casing, as shown.

59,844. ROMPER. Ruth F. Howes, South Pasadena, Calif. Filed Mar. 24, 1921. Serial No. 455,164. Term of patent 7 years.



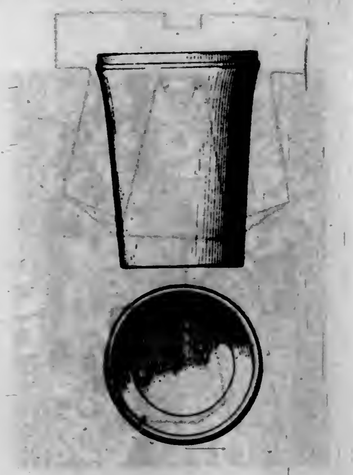
The ornamental design for a romper, substantially as described and shown.

59,845. LAMP. Joseph Hoya, Jr., Hibbing City, Minn. Filed Oct. 1, 1920. Serial No. 414,126. Term of patent 3½ years.



The ornamental design for a lamp as shown.

59,846. JAR OR SIMILAR ARTICLE. Kivend Ingram and Harry Ingram, Brooklyn, N. Y., assignors to Ingrams Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed May 7, 1920. Serial No. 379,067. Term of patent 14 years.



The ornamental design for a jar or similar article, as shown.

59,847. DOLL. Dorothy Helen Island and Lowa Bessie Island, Ogden Lake, Idaho. Filed Apr. 20, 1921. Serial No. 463,093. Term of patent 7 years.



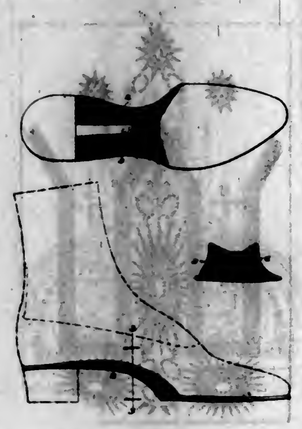
The ornamental design for a doll as herein shown and described.

59,848. TIRE SHOE-HORN. Edward F. King, Wakefield, R. I. Filed Aug. 15, 1921. Serial No. 492,520. Term of patent 3½ years.



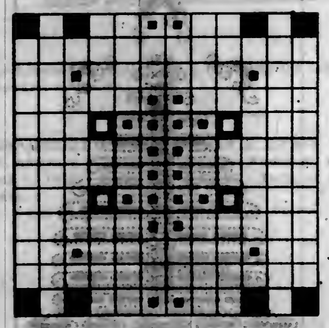
The ornamental design for a tire shoe horn, as shown.

59,849. SOLE FOR BOOTS, SHOES, OR SIMILAR ARTICLES. Thomas Clement Lloyd, Portsmouth, Ohio, assignor to The Irving Knox Company, Portsmouth, Ohio, a Corporation of Ohio. Filed Oct. 18, 1920. Serial No. 417,843. Term of patent 14 years.



The ornamental design for a sole for boots, shoes or similar articles, as shown and described.

59,850. GAME-BOARD. John F. Lyons, Seattle, Wash. Filed Aug. 15, 1921. Serial No. 492,523. Term of patent 7 years.



The ornamental design for a game board as shown.

59,851. BAG-TOP. Sabatino G. Mamelian, North Adams, Mass. Filed Jan. 6, 1921. Serial No. 435,886. Term of patent 14 years.



The ornamental design for a bag top as shown.

59,852. LAMP-SHADE. Abraham S. Meadoff, Brooklyn, N. Y. Filed Mar. 25, 1920. Serial No. 368,753. Term of patent 3½ years.



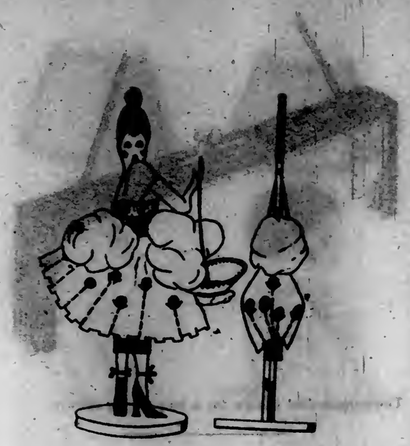
The ornamental design for a lamp shade as shown.

59,853. WATCHCASE. Max Megurowsky, New York, N. Y. Filed June 18, 1921. Serial No. 478,740. Term of patent 7 years.



The ornamental design for a watchcase as shown.

59,854. DOLL, STATUETTE, OR MINARET FIGURE. Bruno Alw Sidney Oakland, Calif. Filed Nov. 29, 1920. Serial No. 426,602. Term of patent 7 years.



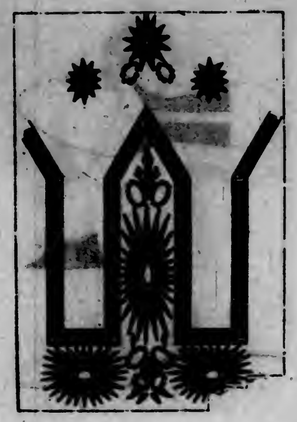
The ornamental design for a doll, statuette, or minaret figure, as shown.

59,855. TOY BROOM. Reuben Nakian, West Hoboken, N. J. Filed Aug. 17, 1921. Serial No. 492,185. Term of patent 14 years.



The ornamental design for a toy broom, as shown and described.

59,856. TRIMMING FOR LADIES' WEARING APPAREL. Samuel Nehlinger, New York, N. Y. Filed Dec. 20, 1919. Serial No. 346,384. Term of patent 3½ years.



The ornamental design for a trimming for lady's wearing apparel as shown.

59,857. TRIMMING FOR LADIES' WEARING-APPAREL. Samuel Nehlinger, New York, N. Y. Filed Dec. 20, 1919. Serial No. 346,383. Term of patent 3½ years.



The ornamental design for a trimming for lady's wearing apparel as shown.

59,858. TRIMMING FOR LADIES' WEARING-APPAREL. Samuel Nehlinger, New York, N. Y. Filed Dec. 20, 1919. Serial No. 346,384. Term of patent 3½ years.



The ornamental design for a trimming for lady's wearing apparel as shown.

59,859. TRIMMING FOR LADIES' WEARING-APPAREL. Samuel Nehlinger, New York, N. Y. Filed Dec. 20, 1919. Serial No. 346,385. Term of patent 3½ years.



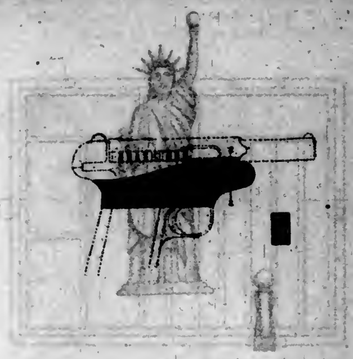
The ornamental design for a trimming for lady's wearing apparel as shown.

59,860. BELT-BUCKLE. William J. Nelson, Rockford, Ill., assignor to Joseph P. Gordon, Rockford, Ill. Filed July 1, 1921. Serial No. 481,946. Term of patent 14 years.



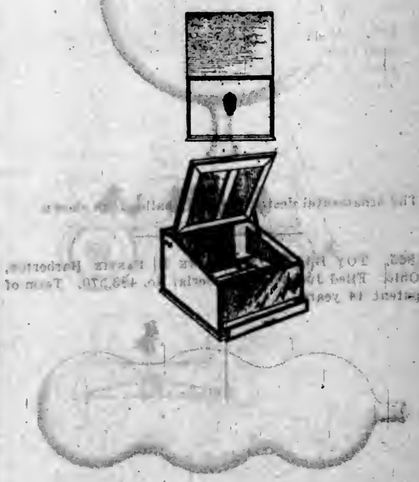
The ornamental design for a belt buckle, as shown.

59,861. PISTOL-GUIDE. Mike G. Nikis, Chicago, Ill. Filed Mar. 7, 1918. Serial No. 222,869. Term of patent 14 years.



The ornamental design for a pistol guide substantially as shown and described.

59,862. DISPENSING-CABINET. Leon S. Palefou, Orange, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Mar. 30, 1921. Serial No. 457,059. Term of patent 7 years.



The ornamental design for a dispensing cabinet, as shown.

59,863. CANDY. Gideon H. Patten, Baltimore, Md. Filed Apr. 19, 1921. Serial No. 463,720. Term of patent 14 years.



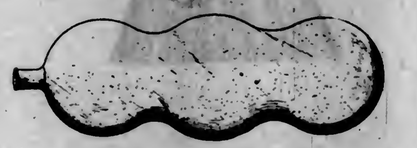
The ornamental design for candy as shown.

59,864. TOY BALLOON. Frank B. Pastis, Barberton, Ohio. Filed July 9, 1921. Serial No. 483,569. Term of patent 14 years.



The ornamental design for a toy balloon, as shown.

59,865. TOY BALLOON. Frank B. Pastis, Barberton, Ohio. Filed July 9, 1921. Serial No. 483,570. Term of patent 14 years.



The ornamental design for a toy balloon, as shown.

59,866. HEEL-BRACE FOR SHOES. Lula Bowman, Dallas, Tex. Filed Sept. 28, 1920. Serial No. 412,681. Term of patent 14 years.



The ornamental design for a heel brace for shoes as shown.

59,867. HEEL-BRACE FOR SHOES. Luca Paternostro, Dallas, Tex. Filed Aug. 25, 1920. Serial No. 406,025. Term of patent 14 years.



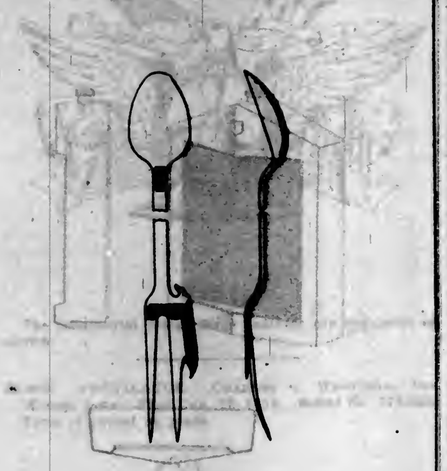
The ornamental design for a heel brace for shoes as shown.

59,868. WATCH-BOW. Elisha A. Phinney, Pawtucket, R. I. Filed Jan. 10, 1921. Serial No. 426,868. Term of patent 14 years.



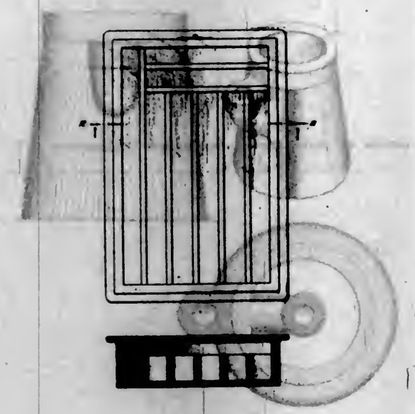
The ornamental design for a watch bow, as shown.

59,869. COMBINATION FORK AND SPOON. Alvin A. Quintard, and Erwin G. Shoemaker, Chicago, Ill. Filed Dec. 22, 1920. Serial No. 432,626. Term of patent 14 years.



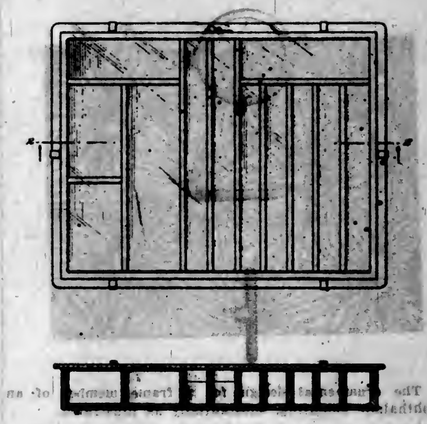
The ornamental design for a combination fork and spoon, as shown.

59,870. DISPLAY-CASE. Irving W. Rice, New York, N. Y. Filed Dec. 5, 1919. Serial No. 342,843. Term of patent 7 years.



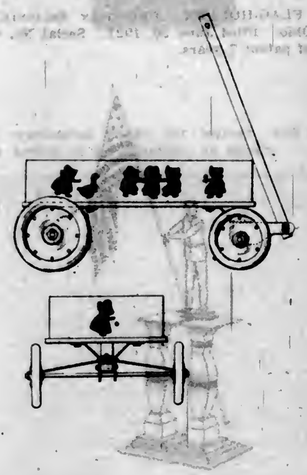
The ornamental design for a display case as shown.

59,871. DISPLAY-CASE. Irving W. Rice, New York, N. Y. Filed Dec. 8, 1919. Serial No. 345,012. Term of patent 7 years.



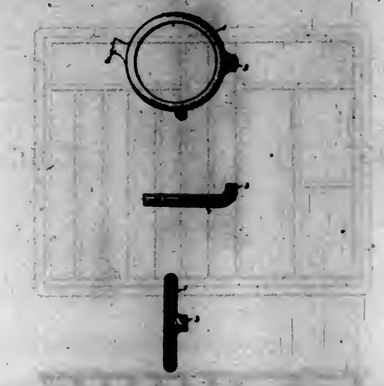
The ornamental design for a display case as shown.

59,872. TOY WAGON. Samuel I. Rose, Cleveland, Ohio, assignor to The Osborn-Crew Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 8, 1921. Serial No. 489,641. Term of patent 7 years.



The design for toy wagon substantially as shown.

59,873. FRAME MEMBER OF AN OPHTHALMIC MOUNTING. Hugo H. Schumacher and William H. Boutelle, Southbridge, Mass., assignors to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Mar. 31, 1921. Serial No. 457,526. Term of patent 14 years.



The ornamental design for a frame member of an ophthalmic mounting, substantially as illustrated.

59,874. RING OR SIMILAR ARTICLE OF MANUFACTURE. Monroe Seiger, New York, N. Y., assignor to Morris Seiger and Simon Seiger, doing business as M. Seiger & Son, New York, N. Y. Filed July 29, 1921. Serial No. 488,486. Term of patent 14 years.



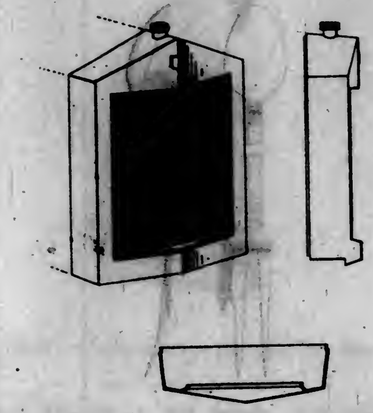
The ornamental design for a ring or similar article of manufacture substantially as shown.

59,875. FLAG-HOLDER. Christian Selisnik, Cleveland, Ohio. Filed June 20, 1921. Serial No. 479,142. Term of patent 7 years.



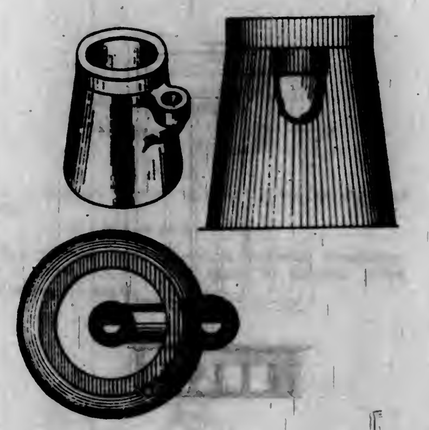
The ornamental design for a flag holder, as shown.

59,876. RADIATOR FOR AUTOMOBILES. Roscoe Stahl, Oshkosh, Mich., assignor to Benjamin Briscoe & Stahl Engineering Co., Inc., Detroit, Mich., a Corporation of Delaware. Filed Apr. 23, 1920. Serial No. 376,151. Term of patent 3½ years.



An ornamental design for a radiator for automobiles as shown.

59,877. AIR-INJECTOR FOR PUMPS. Lucius L. Taylor, Waupun, Wis. Filed Oct. 6, 1917. Serial No. 195,202. Term of patent 14 years.



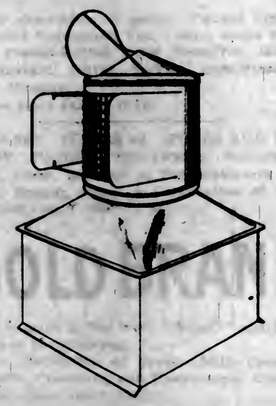
The ornamental design for an air injector for pumps, as shown.

59,878. RADIATOR-CAP ORNAMENT. Anthony Travers, Fairhaven, Mass. Filed May 17, 1921. Serial No. 470,480. Term of patent 14 years.



The ornamental design for a radiator cap ornament as shown.

59,879. VENTILATOR. Charles O. Whitnell, Des Moines, Iowa. Filed Jan. 28, 1919. Serial No. 273,656. Term of patent 3½ years.



The ornamental design for a ventilator, as shown.

59,880. LEATHER, WALL-PAPER, OR SIMILAR ARTICLE OF MANUFACTURE. Henry G. Wurm, Yonkers, N. Y. Filed Aug. 2, 1921. Serial No. 489,393. Term of patent 7 years.



The ornamental design for leather, wall paper or similar article of manufacture, as shown.

59,881. LEATHER, WALL-PAPER, OR SIMILAR ARTICLE OF MANUFACTURE. Henry G. Wurm, Yonkers, N. Y. Filed Aug. 2, 1921. Serial No. 489,394. Term of patent 7 years.



The ornamental design for leather, wall paper or similar article of manufacture, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, NOVEMBER 29, 1921.

(PUBLISHED DECEMBER 2, 1921.)

The following trade-marks are published in compliance with section 9 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (f) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 88,376. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TORRISTON & WARFIELD CO., Sioux City, Iowa. Filed Aug. 2, 1915.



Particular description of goods.—Canned Fish, Canned Fruits, Canned Vegetables, Tea, Coffee, Dried Fruits, Table Sauce, Peanut-Butter, Fruit Preserves, Jellies, Marmalades, Mustard, Olives, Pickles, Corn-Starch, Table-Syrup, and Vinegar.

Claims use since Jan. 1, 1912.

Ser. No. 114,549. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STOLLWERCK BROTHERS, INC., Stamford, Conn., assignor to The Stollwerck Chocolate Company, Boston, Mass., a Corporation of Massachusetts. Filed Dec. 7, 1918.

GOLD BRAND

No claim is made to the word "Brand" apart from the mark shown in the drawing.

Particular description of goods.—Milk-Cocoa, Cocoa, Milk-Chocolate, Chocolate, and Unsweetened Chocolate.

Claims use since about 1910.

Ser. No. 117,012. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE HESS COMPANY, Chicago, Ill., and Seattle, Wash. Filed Mar. 20, 1919.

APOLLO



Particular description of goods.—Compound of Evaporated Skimmed Milk and Vegetable Fat.

Claims use since Feb. 9, 1915.

Ser. No. 120,962. (CLASS 12. CONSTRUCTION MATERIALS.) KRIEGHOFF COMPANY, Detroit, Mich. Filed July 26, 1919.

KRIEGHOFF COMPANY
RUBBEROCK
FLOORS

No claim, apart from the mark as shown, is made to the word "Floors."

Particular description of goods.—Cementitious Surfacing Material for Floors or Walks, Particularly Such as are Made of Concrete or Like Material.

Claims use since on or about Apr. 1, 1919.

Ser. No. 121,174. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. B. FLOEY, Canton, Ohio. Filed Aug. 1, 1919.

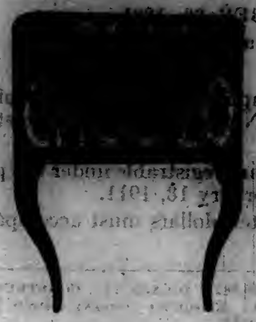
MY-T-GOOD

No claim is made to the words "Mighty Good."

Particular description of goods.—Bread, Butter, Oleomargarin, Coffee, Grape-Juice, Cereal Breakfast Foods, Candy, Canned Soups, Cream-Whip, Cocoanut, Catsup, Cocoa, Chocolate, Canned Peas, Canned Corn, Canned Tomatoes, Dried Fruits, Canned Milk, Flavoring Extracts for Food Purposes, Canned Fish, Canned Oysters, Canned Beef, Canned Tongue, Canned Honey, Spring Wheat, Patent and White Wheat, and Cake Flour; Jellies, Jams, Gelatin Compound, Lard, Molasses, Cooking Oil, Mustard; Flour Products, Such as Noodles, Macaroni, and Spaghetti; Peanut-Butter, Olives and Pickles, Rice, Table-Syrups, Spices, Teas, Vinegars, Worcester Sauce, and Yeast Cakes.

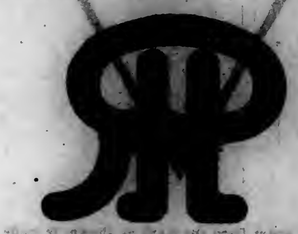
Claims use since June 1, 1919.

Ser. No. 124,233. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CROC-LO FOOD CORPORATION, Detroit Park, Mich. Filed Oct. 31, 1919.



Particular description of goods.—A Filler and Flavor for Pies, Puddings, and Cakes.
Claims use since Sept. 1, 1919.

Ser. No. 128,251. (CLASS 12. CONSTRUCTION MATERIALS.) H. H. ROBERTSON COMPANY, Pittsburgh, Pa. Filed Nov. 24, 1919.



Particular description of goods.—Protected Metal Sheets for Building Constructions, Flashings, Gutters, Skylights, Shingles, Preformed Gypsum Slabs for Roofs and Floors, Rolled Roofing, Paving-Joints, Plastic Cements, Asphalts.
Claims use since July 17, 1919.

Ser. No. 128,788. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) L. MITCHELL & Co., Chicago, Ill. Filed Feb. 24, 1920.

Magic Marvel

Particular description of goods.—Washing-Powder.
Claims use since Mar. 10, 1917.

Ser. No. 130,564. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ANAHEIM CITRUS FRUIT ASSOCIATION, Anaheim, Calif. Filed Apr. 3, 1920.

Colonial Mother

Particular description of goods.—Fresh Citrus Fruits.
Claims use since Jan. 1, 1920.

Ser. No. 131,805. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn. Filed Apr. 26, 1920.

EAGLE TWILL

No claim being made to the word "Twill" except in association with the mark as shown.
Particular description of goods.—Automobile Brake-Lining.
Claims use since on or about July 1, 1918.

Ser. No. 132,405. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) R. M. RICHARDSON & Co., San Francisco, Calif. Filed May 13, 1920.

PEP-GIVERS

Particular description of goods.—Candy.
Claims use since Apr. 24, 1920.

Ser. No. 133,063. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) A. HOLLANDER & SON, INC., Newark, N. J. Filed May 28, 1920.

BAY SEAL
AH&S

No registration rights being claimed for the word "Seal" apart from the mark shown in the drawing.
Particular description of goods.—Fur-Skins.
Claims use since August, 1919.

Ser. No. 133,220. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FELIX UHRY, Chicago, Ill. Filed June 4, 1920.

DE LUXE

Particular description of goods.—Shaving Preparation, Hand-Lotions, Face-Powder, Toilet Creams, Bleaching-Creams, Hair-Dressings, Lip-Sticks.
Claims use since on or about July 1, 1914.

Ser. No. 133,261. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LASSEN FLOUR MILLS CORPORATION, Kansas City, Mo. Filed June 7, 1920.



In which the horizontal lining on the margin represents blue and the irregular lining on the fairy's dress and turban represent orange.
Particular description of goods.—Wheat-Flour.
Claims use since July 16, 1919.

Ser. No. 133,798. (CLASS 39. CLOTHING.) FRANKLIN SIMON & Co. INC., New York, N. Y. Filed June 16, 1920.

Bramley

Particular description of goods.—Men's and Boys' Furnishings, Undergarments and Clothing—Namely, House-Coats, Waistcoats, Bath-Robes, Smoking-Robes, Smoking-Jackets, Drawers, Pajamas, Dress-Shirts, Undershirts, Night-Shirts, Union-Suits, Bathing-Suits, Swimming-Suits, Dressing-Gowns, Sweaters, Mufflers, Collars, Gloves, Hosiery, Overcoats, Raincoats, Dress-Suits, Golf-Suits, Hunting-Suits, Riding-Suits, Tuxedo Suits, Walking-Suits, Sack-Suits, Trousers, Hats, and Caps Made Out of Textile Material, and Gloves, Sweaters, Mufflers, Bathing-Suits, Swimming-Suits, Drawers, Undershirts, Hats, and Caps Made Out of Knitted Material; and for Women's, Girls', and Misses' Furnishings, Undergarments and Clothing—Namely, Dresses, Corsets, Tailored Suits, Walking-Suits, Sport-Suits, Golf-Suits, Riding-Suits, Skirts, Nightgowns, Petticoats, Bodices, Chemises, Drawers, Combinations, Bath-Robes, Shirt-Waists, Bathing-Suits, Dressing-Gowns, Sweaters, Mufflers, Hosiery, Raincoats, Sport-Coats, Hats, Caps, and Coats Made Out of Textile Material, and Dresses, Corsets, Tailored Suits, Walking-Suits, Sport-Suits, Golf-Suits, Riding-Suits, Skirts, Nightgowns, Petticoats, Bodices, Chemises, Drawers, Combinations, Bath-Robes, Shirt-Waists, Bathing-Suits, Dressing-Gowns, Sweaters, Mufflers, Hosiery, Hats, and Caps Made Out of Knitted Material; and for Men's, Women's, Boys', and Girls' Shoes, Boots, Slippers, Leggings, Puttees Made Out of Leather, Rubber, Canvas, Buckskin, or Linen or Composition of Similar Materials.
Claims use since April, 1920.

Ser. No. 134,266. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAGNESIUM PRODUCTS CO. INC., New York, N. Y. Filed June 26, 1920.

JAQUELIN'S

Particular description of goods.—Cream of Magnesia.
Claims use since June 23, 1920.

Ser. No. 134,268. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAGNESIUM PRODUCTS CO. INC., New York, N. Y. Filed June 26, 1920.

Nonok

STAR

Particular description of goods.—A Decarboniser for Internal-Combustion Engines.
Claims use since June 15, 1920.

Ser. No. 135,808. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VIOLA B. WILSON, Americus, Ga. Filed July 22, 1920.

WILSON'S HAIR GROWER



Consisting of a portrait of the applicant and the name "Wilson's." The words "Hair Grower" are hereby disclaimed apart from the mark shown.
Particular description of goods.—A Salve or Ointment for Promoting the Growth of Hair and for Treatment of Dandruff and Tetter.
Claims use since November, 1919.

Ser. No. 135,639. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) [illegible], Barcelona, Spain. Filed July 30, 1920.



Particular description of goods.—Alimentary Oils.
Claims use since June, 1919.

Ser. No. 135,646. (CLASS 7. CORDAGE.) THE HOOVEN & ALLISON COMPANY, Xenia, Ohio. Filed July 31, 1920.

STAR

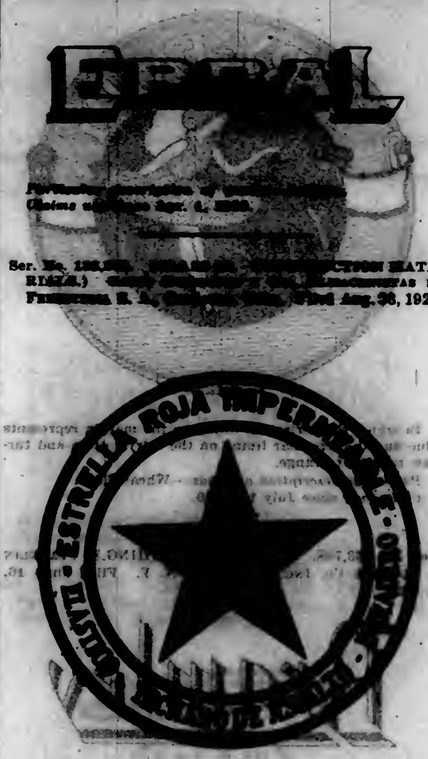
Particular description of goods.—Cordage—Namely, Manila, Sisal, and Hemp Rope and Twine.
Claims use since 1878.

Ser. No. 135,647. (CLASS 7. CORDAGE.) THE HOOVEN & ALLISON COMPANY, Xenia, Ohio. Filed July 31, 1920.



Particular description of goods.—Cordage—Namely, Manila, Sisal, and Hemp Rope and Twine.
Claims use since 1878.

Ser. No. 135,648. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE E. [illegible], Monmouth, N. Y. Filed Aug. 6, 1920.



Ser. No. 135,676. (CLASS 12. CONSTRUCTION MATERIALS.) [illegible], Nueva York, N. Y. Filed Aug. 26, 1920.

No claim being made to the exclusive use of the words "Impermeable—Elastico—Techado de Asfalto—Duradero" except in the setting and relation in which they appear in the accompanying drawing.
Particular description of goods.—Roofing-Paper.
Claims use since April, 1919.

Ser. No. 136,251. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MILLIGN MILLING COMPANY, Murphysboro, Ill. Filed Aug. 26, 1920.

PARAGON

Particular description of goods.—Self-Rising Wheat-Flour.
Claims use since Mar. 20, 1913.

Ser. No. 137,497. (CLASS 12. CONSTRUCTION MATERIALS.) CEMENT EXPORT COMPANY, INC., New York, N. Y. Filed Sept. 21, 1920.



The exclusive use of the words "American Portland Cement" and "New York, U. S. A.," is hereby disclaimed.
Particular description of goods.—Portland Cement.
Claims use since Sept. 15, 1919.

Ser. No. 137,612. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HENRY GLASS & CO., New York, N. Y. Filed Sept. 25, 1920.



Particular description of goods.—Cotton Piece Goods.
Claims use since August, 1920.

Ser. No. 137,669. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES W. GRAVES, Logansport, Ind. Filed Sept. 27, 1920.



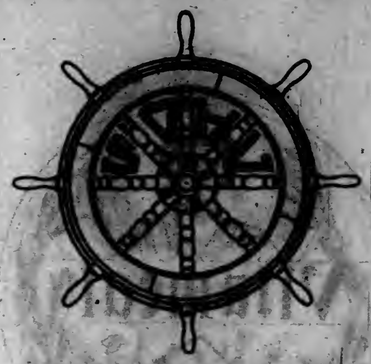
No claim is made to the phrase "Life and Vitality" apart from the mark shown in the drawing.
Particular description of goods.—Breakfast Cereals and Breads Composed of Meal, Flour, Wheat, Corn, Oats.
Claims use since on or about Jan. 10, 1920.

Ser. No. 137,800. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) HEPBURN, GALE AND ROSE, LIMITED, London, England, assignors to Barrow, Hepburn & Gale Ltd., London, England, a Corporation of Great Britain. Filed Sept. 30, 1920.



No claim being made to the exclusive use of the representation of a trunk apart from the mark as shown on the drawing.
Particular description of goods.—Trunks, Portmanteaux, Blouse and Suit Cases, Hat-Boxes, Attaché-Cases, Brief-Bags, Kit-Bags, and Fitted Dressing-Cases.
Claims use since June 21, 1919.

Ser. No. 137,909. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) Seael & Company, Seattle, Wash. Filed Oct. 5, 1920.



No claim being made to the pilot-wheel shown.

Particular description of goods.—Wood Products—Namely, Pilot-Wheels and Timber Dollies.

Claims use since June 16, 1920.

Ser. No. 138,444. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) The Kissel Motor Car Company, Hartford, Wis. Filed Oct. 18, 1920.



Particular description of goods.—Automobiles—Namely, Passenger-Cars and Automobile-Trucks.

Claims use since 1907.

Ser. No. 138,900. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) Curtiss Aeroplane and Motor Corporation, Buffalo and Garden City, N. Y. Filed Oct. 28, 1920.

ORIOLE

Particular description of goods.—Airplanes.

Claims use since January, 1919.

Ser. No. 139,510. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) American Radiator Company, East Orange, N. J., and Chicago, Ill. Filed Nov. 13, 1920.

IDEAL

Under section 5 of the act of Mar. 19, 1920.

Particular description of goods.—Expansion-Tanks and Heating Systems.

Claims use since about Aug. 16, 1902.

Ser. No. 139,287. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) K.-H. Co., Canton, Ohio. Filed Nov. 12, 1920.



Particular description of goods.—A Preparation for the Treatment of Eczema.

Claims use since Sept. 1, 1920.

Ser. No. 139,654. (CLASS 32. FURNITURE AND UPHOLSTERY.) The B. L. Marble Chair Company, Bedford, Ohio. Filed Nov. 13, 1920.



No claim is made to the words "Bedford, Ohio," apart from the mark as shown.

Particular description of goods.—Office and Household Chairs, Settees, Costumers, and Seats.

Claims use since about 1910.

Ser. No. 139,699. (CLASS 38. PRINTS AND PUBLICATIONS.) Milton Hartman, Detroit, Mich. Filed Nov. 20, 1920.



No claim is made to exclusive use of the words "Localized Advertising," "Any Town," and "Any County," except when used in connection with the mark shown. The color lines shown on the arrow of the drawing represent shading only.

Particular description of goods.—Pamphlets, Circulars, and Like Advertising Matter Sold as a Commodity.

Claims use since Nov. 6, 1919.

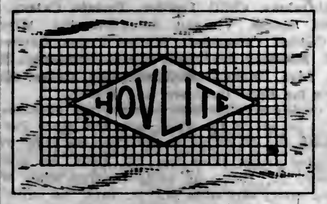
Ser. No. 139,961. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) L. Demartini Supply Co., San Francisco, Calif. Filed Nov. 22, 1920.

EASYNOUGAT

Particular description of goods.—An Egg Composition, Made of Corn-Syrup, Sugar, and Egg Albumen, for Making Cream Centers, Fondant, Chews, Caramels, and Nougat Candy, Which Composition is Inclosed in Pails, Barrels, and Half-Barrels.

Claims use since Nov. 1, 1919.

Ser. No. 141,106. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) Burton M. Hovey, New York, N. Y. Filed Dec. 15, 1920.



Particular description of goods.—Glass Substitute Made of a Flexible Transparent Sheet Material in Which is Embedded an Interticed Sheet Member of Woven Metal or Fabric Thread.

Claims use since Oct. 15, 1920.

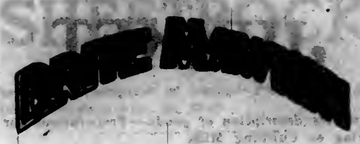
Ser. No. 141,108. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) The E. C. Harley Company, Dayton, Ohio. Filed Dec. 15, 1920.

DELECTO

Particular description of goods.—Canned Fruits, Canned Vegetables, Tea, Table-Syrup and Molasses, and Pork and Beans.

Claims use since Jan. 1, 1915.

Ser. No. 141,342. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Ambot Products Co., Chicago, Ill. Filed Dec. 21, 1920.



Particular description of goods.—Canned Beans, Canned Corn, Canned Hominy, Canned Peas, Canned Pumpkin, Canned Sauer-Kraut, Canned Sweet Potatoes, Canned Tomatoes, Canned Salmon, Cereals for Breakfast Foods, Corn Flakes, Chewing-Gum, Coffee, Pure Fruit Jellies and Preserves, Dried and Prepared Mustard, Olives, Ripe Olives, Peanut-Butter, Spices, Table-Syrup, Tea, Vinegar, Bird-Seed, and Flavoring Extracts for Food and Baking Purposes.

Claims use since Jan. 2, 1919.

Ser. No. 141,417. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) L Demartini Supply Company, San Francisco, Calif. Filed Dec. 22, 1920.

VAN-O-VAN

Particular description of goods.—Bottled and Canned Liquid Compound of Mexican Vanilla-Beans, Vanillin, and Coumarin, Uncolored.

Claims use since July 1, 1914.

Ser. No. 141,525. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Italy Commercial Co., New York, N. Y. Filed Dec. 27, 1920.

PRIMO PREMIO



No claim being made to the exclusive use of the representation of the European country, nor to the words "Primo, Premio, Venezia, Genova, Toscana, Lucca, Roma, Napoli," or "Sicilia," apart from the mark shown on the drawing.

Particular description of goods.—Pure Olive-Oil.

Claims use since Oct. 15, 1920.

Ser. No. 141,801. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Chr. Hansen's Laboratory, Inc., Little Falls, N. Y. Filed Dec. 28, 1920. Under ten-year proviso.

JUNKET

Particular description of goods.—Preparations for Coagulating or Curdling Milk.
Claims use since April, 1887.

Ser. No. 141,826. (CLASS 38. PRINTS AND PUBLICATIONS.) Colby Steel and Engineering Co., Seattle, Wash. Filed Dec. 29, 1920.

MODERN METHODS

Particular description of goods.—Catalogues and Trade Journals Published at Irregular Intervals.
Claims use since Jan. 2, 1914.

Ser. No. 141,803. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Robert B. Pollock, Los Angeles, Calif. Filed Jan. 3, 1921.

MAGIC

Particular description of goods.—Garment-Patterns—Namely, Single Pieces of Cloth in the Form of Handkerchiefs Having Cutting Indications Formed by Hemstitching, in Conformity With Which the Pieces of Cloth are Cut to Produce the Parts from Which Finished Garments are Made.
Claims use since Dec. 13, 1920.

Ser. No. 141,833. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Jacob M. Fox, Hazleton, Pa. Filed Jan. 4, 1921.

SUGAR LOAF

Particular description of goods.—Coffee, Mayonnaise, Peanut-Butter, and Horse-Radish.
Claims use since Sept. 29, 1920.

Ser. No. 142,206. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) John W. Sawyer, Afton, Okla. Filed Jan. 6, 1921.

Wild West

Particular description of goods.—A Medicine for Use in the Treatment of Mountain-Fever, Kidney Trouble, Pneumonia, La Grippe, Colds, Chills, and Malaria Fever.
Claims use since Dec. 15, 1920.

Ser. No. 142,147. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Haas, Baboch & Co., Los Angeles, Calif. Filed Jan. 12, 1921.

IRIS



Particular description of goods.—Canned Fruits, Canned Vegetables, Canned Fish, Fruit Jams, Fruit Jellies, Fruit Preserves, Pickled Fruits, Cranberry Sauce, Pepper Sauce, Cocktail-Onions, Chilli Powder, Tomato Catsup, Olives, Olive-Oil, Spices, Vinegar, Salad-Dressing, Mince-Meat, Dried Codfish, Celery-Salt, Minced Clams, Canned Crab, Canned Shrimp, Dry Split Peas, Unpopped Popcorn, Barley, Sago, Tapioca, Bird-Seed, Tea, Coffee, Flavoring Extracts for Food Purposes, and Honey.
The trade-mark has been used in the business of the applicant on all of the above products since January 1, 1898, with the following exceptions: On fruit preserves and pickled fruits since Dec. 23, 1915; on mince-meat since Nov. 22, 1917; on salad-dressing since Mar. 30, 1917; on celery-salt since July 3, 1914; on chilli powder since Dec. 5, 1914; on dry split peas since July 25, 1914; on unpopped popcorn since July 28, 1914; on pepper sauce since Dec. 18, 1914; on canned minced clams since Oct. 21, 1914; on canned crab since Nov. 9, 1914; on canned tuna fish since Oct. 12, 1914; on canned salmon since July 8, 1914; on canned shrimp since July 16, 1914; on canned oysters since Jan. 10, 1914.

Ser. No. 142,533. (CLASS 5. ADHESIVES.) Frank St. John, Minneapolis, Minn. Filed Jan. 27, 1921.

WELD-ON

Particular description of goods.—Film-Cement.
Claims use since Jan. 1, 1920.

Ser. No. 142,203. (CLASS 17. TOBACCO PRODUCTS.) Fred K. Nieuwland, Winfield, Tex. Filed Feb. 28, 1921.

Turkey Trot

Particular description of goods.—Cigars.
Claims use since on or about Jan. 1, 1921.

Ser. No. 142,063. (CLASS 17. TOBACCO PRODUCTS.) The Bloch Bros. Tobacco Co., Wheeling, W. Va. Filed Feb. 2, 1921.

ARROW



Particular description of goods.—Cigarettes.
Claims use since Dec. 16, 1920.

Ser. No. 142,067. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) Buffalo Forge Company, Buffalo, N. Y. Filed Feb. 2, 1921.

BUFFALO

Under section 9 of the act of Mar. 19, 1920.
Particular description of goods.—Hot-Blast Heating and Ventilating Systems, Air-Conditioning Apparatus and Parts thereof, Ventilators, Evaporators and Driers for Sugar Plants, Vacuum-Pans, Forges and Forging-Furnaces, Separators, Steam-Boilers, and Grain-Driers.
Claims use on hot-blast heating and ventilating systems, ventilators, and grain-driers since 1896; on evaporators and driers for sugar plants, defecators, vacuum-pans, and steam-boilers since 1888; on forges and forging-furnaces since 1888, and on air-conditioning apparatus and parts thereof since 1903.

Ser. No. 142,414. (CLASS 12. CONSTRUCTION MATERIALS.) United States Gypsum Company, Chicago, Ill. Filed Feb. 10, 1921.

SHEETROCK

Particular description of goods.—Plaster Wall-Board.
Claims use since Aug. 28, 1917.

Ser. No. 142,497. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) The Havasmile Company, Boston, Mass. Filed Feb. 12, 1921.

Osogood

Particular description of goods.—Candy.
Claims use since Nov. 21, 1920.

Ser. No. 142,498. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) The Havasmile Company, Boston, Mass. Filed Feb. 12, 1921.

Havasmile

Particular description of goods.—Candy.
Claims use since Nov. 21, 1920.

Ser. No. 142,654. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) National Vinegar Company, St. Louis, Mo. Filed Feb. 26, 1921.



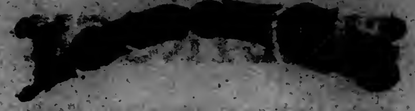
Particular description of goods.—Vinegar.
Claims use since Jan. 1, 1918.

Ser. No. 142,776. (CLASS 17. TOBACCO PRODUCTS.) Y. F. O'Halloran & Son, Tampa, Fla. Filed Feb. 18, 1921.

BONITA

Particular description of goods.—Cigars.
Claims use since May 10, 1915.

Ser. No. 143,993. (CLASS 17. TOBACCO PRODUCTS.) BERNARD M. MEYER, Louisville, Ky. Filed Feb. 21, 1921. Under ten-year proviso.



Particular description of goods.—Stogies.
Claims use since 1899.

Ser. No. 144,050. (CLASS 42. THREAD AND YARN.) F. A. TOOMBS & Co., Brooklyn, N. Y. Filed Feb. 25, 1921.



Particular description of goods.—Embroidery Cord and Thread.
Claims use since August, 1917.

Ser. No. 144,094. (CLASS 17. TOBACCO PRODUCTS.) THE MILDMAN CIGAR CO., INC., Seattle, Wash. Filed Feb. 26, 1921.

Legion

Particular description of goods.—Cigars.
Claims use since Jan. 21, 1921.

Ser. No. 144,190. (CLASS 32. FURNITURE AND UPHOLSTERY.) INTERNATIONAL BEDDING CO., Baltimore, Md. Filed Mar. 1, 1921.

REST-E-Z

Particular description of goods.—Mattresses, Pillows, and Box-Springs.
Claims use since Jan. 1, 1921.

Ser. No. 144,191. (CLASS 32. FURNITURE AND UPHOLSTERY.) INTERNATIONAL BEDDING CO., Baltimore, Md. Filed Mar. 1, 1921.

EAZY-REST

Particular description of goods.—Mattresses, Pillows, and Box-Springs.
Claims use since Jan. 1, 1921.

Ser. No. 144,[illegible]. (CLASS 6. CHEMICALS, MINERAL, AND PHARMACEUTICAL PREPARATIONS.) DOUGLAS LABORATORIES, Inc., Chicago, Ill. Filed Mar. 5, 1921.



Particular description of goods.—Laxative Pills.
Claims use since Jan. 1, 1921.

Ser. No. 144,242. (CLASS 42. THREAD AND YARN.) MAGNOLIA TEXTILE CORPORATION, New Orleans, La. Filed Mar. 5, 1921.



No claim being made to the exclusive use of the words "Oriental Yarns" and the representation of the bale and stain of wood, apart from the mark as shown on the drawing.
Particular description of goods.—Sewing-Yarn.
Claims use since Jan. 14, 1921.

Ser. No. 144,393. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNITED DAIRIES BUTTER ASSOCIATIONS, Inc., New York, N. Y. Filed Mar. 10, 1921.

★ U.D.B.A. ★

Particular description of goods.—Butter.
Claims use since Mar. 1, 1921.

Ser. No. 144,672. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FISHER FLOURING MILLS COMPANY, Seattle, Wash. Filed Mar. 12, 1921.



SICKLE BRAND

No claim being made to the word "Brand" apart from the mark shown.
Particular description of goods.—Wheat-Flour.
Claims use since Dec. 6, 1920.

Ser. No. 145,048. (CLASS 39. CLOTHING.) F. SCHWABTE AND SON, Allentown, Pa. Filed Mar. 21, 1921.



Applicant disclaims the words "Clothes for Boys" appearing in the trade-mark shown on the drawing.
Particular description of goods.—Boys' Suits, Overcoats, and Pants.
Claims use since Feb. 4, 1921.

Ser. No. 145,084. (CLASS 17. TOBACCO PRODUCTS.) MAURICE ROSENTHAL, San Francisco, Calif. Filed Mar. 22, 1921.

ROSEFIELD

Particular description of goods.—Cigars.
Claims use since Nov. 15, 1920.

Ser. No. 145,085. (CLASS 17. TOBACCO PRODUCTS.) MAURICE ROSENTHAL, San Francisco, Calif. Filed Mar. 22, 1921.

M R

Particular description of goods.—Cigars.
Claims use since Nov. 15, 1920.

Ser. No. 145,154. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) LAURA K. DAVIDSEN, Los Angeles, Calif. Filed Mar. 24, 1921.

FLORAMERICANA

Particular description of goods.—Hand-Painted China.
Claims use since Mar. 9, 1921.

Ser. No. 145,236. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARRY DILAS, Bay City, Mich. Filed Mar. 28, 1921.



No claim being made to the word "Candy" apart from the mark shown in the drawing.
Particular description of goods.—Candy.
Claims use since Oct. 11, 1911.

Ser. No. 145,352. (CLASS 17. TOBACCO PRODUCTS.) MI FAVORITA CIGAR COMPANY, INC., New York, N. Y. Filed Mar. 28, 1921.

OTELLO

Particular description of goods.—Cigars.
Claims use since November, 1887.

Ser. No. 145,539. (CLASS 17. TOBACCO PRODUCTS.) JOSEPH F. WELCH, Gardner, Mass. Filed Mar. 31, 1921.

LEGION

The letters having a golden border.
Particular description of goods.—Cigars.
Claims use since September, 1918.

Ser. No. 145,586. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PECTIN SALES CO. INC., Rochester, N. Y. Filed Apr. 1, 1921.

CERTO
(Surejell)

The word "Surejell" is disclaimed apart from the other features of the mark shown on the drawing.
Particular description of goods.—Concentrated Fruit Pectin.
Claims use since Mar. 25, 1921.

Ser. No. 145,697. (CLASS 17. TOBACCO PRODUCTS.) JOHN NORMAN MCCRARY, High Point, N. C. Filed Apr. 2, 1921.



Particular description of goods.—Cigars Made of Various Tobaccos.
Claims use since Feb. 16, 1921.

Ser. No. 145,748. (CLASS 17. TOBACCO PRODUCTS.) H. & E. CIGAR COMPANY, Lancaster, Pa. Filed Apr. 5, 1921.

H. & E.

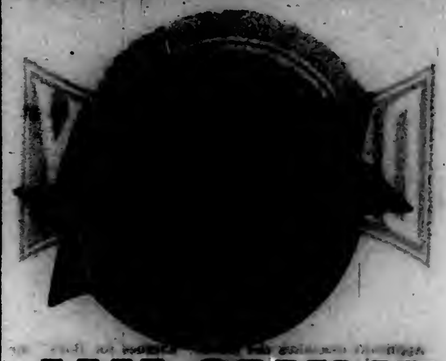
Particular description of goods.—Cigars.
Claims use since Mar. 1, 1921.

Ser. No. 145,911. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE A. B. PERKINS CORPORATION, Dallas, Tex. Filed Apr. 8, 1921.



Particular description of goods.—A Cleaner for White Canvas Shoes.
Claims use since August, 1914.

Ser. No. 145,921. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE A. B. PERKINS CORPORATION, Dallas, Tex. Filed Apr. 8, 1921.



HY-SHINE

Particular description of goods.—A Color-Restorer and Polish for Leather Shoes.
Claims use since Mar. 26, 1921.

Ser. No. 145,931. (CLASS 17. TOBACCO PRODUCTS.) ALL SAINTS CIGAR COMPANY, Tampa, Fla. Filed Apr. 11, 1921.

ALL SAINTS

Consists of the words "All Saints."
Particular description of goods.—Cigars.
Claims use since Mar. 1, 1921.

Ser. No. 145,936. (CLASS 17. TOBACCO PRODUCTS.) CONSOLIDATED COMPANIES INC., Fitzgeralds, Morgan City, St. Martinville, New Roads, and White Castle, La. Filed Apr. 11, 1921.



The drawing being lined to indicate the color red.
Particular description of goods.—Chewing and Smoking Tobacco.
Claims use since 1920.

Ser. No. 146,065. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEPH S. COSTA, New York, N. Y. Filed Apr. 12, 1921.



Particular description of goods.—Malt-Syrup for Food Purposes.
Claims use since Aug. 1, 1920.

Ser. No. 146,187. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. SCHNARR & COMPANY, Orlando, Fla. Filed Apr. 14, 1921.



Particular description of goods.—A Chemical Preparation for Spraying Vegetation.
Claims use since Feb. 1, 1921.

Ser. No. 146,386. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SMITH-KIRK CANDY CO., Toledo, Ohio. Filed Apr. 18, 1921.

PEE-WEES

Particular description of goods.—Candy.
Claims use since Mar. 1, 1921.

Ser. No. 146,511. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BETTY ALDEN FOOD SHOPPE, Newark, N. J. Filed Apr. 22, 1921.



Claim is not made to the word "Best" apart from the mark shown in the drawing.
Particular description of goods.—Candy.
Claims use since September, 1920.

Ser. No. 146,563. (CLASS 39. CLOTHING.) JULIUS KAYSER & CO., New York, N. Y. Filed Apr. 20, 1921.

Marvelfit Bandeaux

The word "Bandeaux" is disclaimed apart from the mark shown.
Particular description of goods.—Bandeaux.
Claims use since prior to Feb. 8, 1921.

Ser. No. 146,573. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) D. C. MATHENY, Chattanooga, Tenn. Filed April 22, 1921.

PIOLA

Particular description of goods.—A Healing-Salve for Hemorrhoids, Cuts, Bruises, and Skin Affections.
Claims use since Mar. 17, 1921.

Ser. No. 146,849. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) STONE-STEARNS CO., Chicago, Ill. Filed Apr. 27, 1921.

COMMUNITY

Particular description of goods.—Dress Snap-Fasteners and Press-Buttons.
Claims use since Nov. 10, 1920.

Ser. No. 147,172. (CLASS 17. TOBACCO PRODUCTS.) SILBERMAN & GAST, Chester, Pa. Filed May 3, 1921.



Particular description of goods.—Cigars.
Claims use since Nov. 1, 1919.

Ser. No. 147,268. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. AND S. WHITE, Sunbury, Pa. Filed May 5, 1921.

Stellaire

Particular description of goods.—Oleomargarin.
Claims use since Nov. 30, 1920.

Ser. No. 147,203. (CLASS 3. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) GEORGE P. RHOMM, San Francisco, Calif. Filed May 6, 1921.



Applicant disclaims the cigarette-holder representation apart from the mark shown in the drawing.

Particular description of goods.—Mouthpiece-Holders for Tobacco Products.

Claims use since Apr. 8, 1921.

Ser. No. 147,220. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SALSBURG REFINING COMPANY, LTD., Lauderdale, La. Filed May 6, 1921.

KEND

The lines in the field of the diamond as shown in the drawing indicate a blue color.

Particular description of goods.—Sugar, Table and Cooking Syrups, and Molasses.

Claims use since Jan. 3, 1921.

Ser. No. 147,299. (CLASS 15. OILS AND GREASES.) RALPH W. BENSON, New York, N. Y. Filed May 9, 1921.

"PAL"

Particular description of goods.—Machinery Packing Formed of Tallow, Oil, Animal Fats, or other Greases.

Claims use since Aug. 2, 1920.

Ser. No. 147,670. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HERMANN KUHLEEN, Brooklyn, N. Y. Filed May 13, 1921.



EAGLE

Particular description of goods.—Mayonnaise Dressing.

Claims use since about Mar. 1, 1921.

Ser. No. 147,715. (CLASS 39. CLOTHING.) JOHN C. DEVRIS & COMPANY, Inc., Oaks, Pa. Filed May 14, 1921.



Particular description of goods.—Athletic Underwear of Textile Fabric for Men, Women, and Children.

Claims use since May 1, 1920.

Ser. No. 147,762. (CLASS 32. FURNITURE AND UPHOLSTERY.) BECKWITH-O'NEILL COMPANY, Minneapolis, Minn. Filed May 16, 1921.

SELREX

Particular description of goods.—Cabinets in Which Sound-Reproducing Machines are Mounted.

Claims use since on or about Feb. 1, 1921.

Ser. No. 147,784. (CLASS 2. RECEPTACLES.) ISOLA GESELLSCHAFT FÜR WÄRME- UND KÄLTE-ISOLIERUNG, Rudolstadt, Germany. Filed May 16, 1921.

ISOLA

Particular description of goods.—Double-Walled Receptacles, Being Evacuated Between Said Double Walls and Serving for Keeping Cold or Warm Foods, Drinks, and other Substances.

Claims use since Sept. 21, 1908.

Ser. No. 147,812. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARRY S. SCHAFER, Easton, Pa. Filed May 16, 1921.

H. S. SCHAFER SUPERIOR BRAND EASTON, PA.

No claim being made to "Superior Brand" and "Easton, Pa.," apart from the mark shown.

Particular description of goods.—Frankfurter-Style Sausage, Bologna-Style Sausage, Pork Sausage, Bacon, Ham, Minced Ham, Boiled Ham, Scrapple.

Claims use since Apr. 1, 1921.

Ser. No. 147,897. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMOSET CHOCOLATES COMPANY, Boston, Mass. Filed May 18, 1921.

THE OUTING

The words "The Outing."

Particular description of goods.—Candy.

Claims use since August, 1915.

Ser. No. 148,136. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ERVIN ALZARA SPRINGSTEAD, Palmetto, Fla. Filed May 24, 1921.



Particular description of goods.—Fresh Citrus Fruits.

Claims use since Oct. 15, 1917.

Ser. No. 148,173. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE THOMSON-DIXON COMPANY, Sacramento, Calif. Filed May 24, 1921.



The lining on drawing being to indicate shading only.

Particular description of goods.—Cotton and Wool Waste.

Claims use since Jan. 1, 1918.

Ser. No. 148,297. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) CHICAGO EYE SHIELD COMPANY, Chicago, Ill. Filed May 26, 1921.

Eureka

Particular description of goods.—Eye-Shields and Eye-Protectors.

Claims use since Aug. 1, 1916.

Ser. No. 148,370. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHASE & CHASE, Jacksonville, Fla. Filed May 28, 1921.

COAT of ARMS

Particular description of goods.—Fresh Citrus Fruits.

Claims use since 1911.

Ser. No. 148,418. (CLASS 32. FURNITURE AND UPHOLSTERY.) JOHN BERNDES COMPANY, Sacramento, Calif. Filed May 31, 1921.



Applicant disclaims the imitation of rush or wicker furniture and the words "Living Room," "Dining Room,"

"Red Beans," "Fresh," and "Furniture" appearing in the drawing.

Particular description of goods.—Library-Tables, Center-Tables, Parlor-Tables, Dining-Tables, Serving-Tables, Tea-Tables, Dining-Chairs, Living-Room Chairs, and Lawn-Chairs, Rockers, Buffets, Couches, Settees, Stools, Pedestals, Taborets, Tea-Wagons, Desks, Magazine-Racks, Beds, Dressers, Dressing-Tables, Costumers, and Chiffoniers.

Claims use since Mar. 11, 1921.

Ser. No. 148,569. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed June 2, 1921.

Vitolene

Particular description of goods.—A Sugar Product Containing Water-Soluble Vitamins Obtained from Cereal Germs, [illegible] Rice-Polishings, Bran, [illegible], and Used as an Ingredient in the Manufacture of Bread, Cake, and other Bakery, Cereal, and Food Products.

Claims use since May 26, 1921.

Ser. No. 148,574. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BOOTH FISHERIES COMPANY, Chicago, Ill. Filed June 3, 1921.

SEATANG

Particular description of goods.—Canned Sardines.

Claims use since Jan. 1, 1921.

Ser. No. 148,579. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA GROWERS ASSOCIATION, INC., Los Angeles, Calif. Filed June 3, 1921.

Sunny Smile

Particular description of goods.—Canned Fruits, Canned Vegetables, Olives, and Olive-Oil.

Claims use since Apr. 1, 1921.

Ser. No. 148,588. (CLASS 39. CLOTHING.) SCHOOLFIELD BROS., Shrewsbury, New York, N. Y. Filed June 3, 1921.

Fashionette

Particular description of goods.—Scarfs, Cravats, and Neckties.

Claims use since January, 1921.

Ser. No. 148,630. (CLASS 39. CLOTHING.) WILDER & COMPANY, Chicago, Ill. Filed June 3, 1921.

"Time-Saver"

Particular description of goods.—Tape for Boots and Shoes.

Claims use since Apr. 2, 1921.

Ser. No. 148,660. (CLASS 39. CLOTHING.) L. G. & S. S. CO., Boston, Mass. Filed June 4, 1921.

GRIPPER

Particular description of goods.—Steel-Linings.

Claims use since December, 1895.

Ser. No. 148,733. (CLASS 39. CLOTHING.) CHARLES E. HERMSON, Louisville, Ky. Filed June 6, 1921.

CRANE

Particular description of goods.—Overalls.

Claims use since Mar. 21, 1921.

Ser. No. 148,764. (CLASS 39. CLOTHING.) MICHAEL FREEAK, New York, N. Y. Filed June 6, 1921.

Paradise

Particular description of goods.—Silk, Wool, and Cotton Hosiery for Men, Women, and Children.

Claims use since Apr. 5, 1921.

Ser. No. 149,270. (CLASS 39. CLOTHING.) W. B. COON COMPANY, Rochester, N. Y. Filed June 17, 1921.

AUNT POLLY'S

Particular description of goods.—Leather, Rubber and Leather, Fabric and Leather, Boots, Shoes, and Slippers.

Claims use since 1912.

Ser. No. 149,462. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES N. MILLER COMPANY, Boston, Mass. Filed June 21, 1921.

KATAHDIN

Particular description of goods.—Candies.

Claims use since Apr. 15, 1921.

Ser. No. 149,463. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLARENCE MAY, Chicago, Ill. Filed June 21, 1921.

MAYHOUSE

Particular description of goods.—Candy.

Claims use since Mar. 1, 1921.

Ser. No. 149,527. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ERNEST SIMONS MFG. CO., Port Chester, N. Y. Filed June 22, 1921.

Old Time

Consisting of the words "Old Time."

Particular description of goods.—Sheets and Pillow-Cases.

Claims use since Jan. 1, 1915.

Ser. No. 149,633. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DUBAR COMPANY, Baltimore, Md. Filed June 29, 1921.

DUBAR

Particular description of goods.—Lithographic Solution.

Claims use since Aug. 15, 1920.

Ser. No. 149,687. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DAIRYMEN'S LEAGUE CO-OPERATIVE ASSOCIATION, INC., Utica, N. Y. Filed June 27, 1921.

DAIRYMEN'S LEAGUE MILK

No claim is made to the word "Milk" apart from the mark shown in the drawing. The lining of the drawing is merely for shading.

Particular description of goods.—Butter, Condensed Milk, and Evaporated Milk.

Claims use since Apr. 15, 1921.

Ser. No. 149,738. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NICHOLAS D. COSTOGUE, New York, N. Y. Filed June 28, 1921.

SUNRAY

Particular description of goods.—Dried Fruits.

Claims use since June 17, 1921.

Ser. No. 149,762. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE EMPIRE SOUTH DAIRY COMPANY, Brooklyn, N. Y. Filed June 20, 1921.



No claim being made to the word "Brand" and the pictorial representation of a cow except as shown in the drawing. Trade-mark consists of words "Empire Brand" and the picture of the head of a cow in a circle.

Particular description of goods.—Canned Condensed Milk Sweetened and Canned Unsweetened Milk Unsweetened.

Claims use since as far as about March 1, 1921.

Ser. No. 149,764. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) LEXINGTON MOTOR COMPANY, Connersville, Ind. Filed June 20, 1921.

MINUTE MAN

Particular description of goods.—Passenger Motor-Cars and Commercial Motor-Vehicles—Namely, Trucks, Delivery-Cars, and Busses.

Claims use since 1915.

Ser. No. 149,879. (CLASS 38. PRINTS AND PUBLICATIONS.) EVA NEIMAN, Cincinnati, Ohio. Filed July 6, 1921.

DAISY

Particular description of goods.—Illustrated Mailing-Cards.

Claims use since June 1, 1921.

Ser. No. 150,124. (CLASS 2. RECEPTACLES.) COATESVILLE BOILER WORKS, Coatesville, Pa. Filed July 8, 1921. Under ten-year proviso.

COATESVILLE

Particular description of goods.—Steel Tanks, Comprising Acid, Air, Barge, Blow-Off, Brine, Car, Chlorin, Coal-Tar, Creosoting, Crystallising, Dissolving, Elevator, Expansion, Filter, Fuel-Oil, Galvanizing Gas, Gasoline, Grease, Hydropneumatic, Ice Refrigerating, Jacketed, Lime, Linseed-Oil, Mixing, Molasses, Naphtha, Oil-Refining, Oil-Storage, Pitch, Petroleum, Pickling, Pneumatic, Pressure, Rendering, Settling, Soap, Sprinkler, Steam-Jacketed, Storage, Sugar-House, Tar, Turpentine, Varnish, Water-Softener, and Water-Storage Tanks; Cement-Bins, Coal-Bins, Hoppers, Ore-Bins, Scale-Boxes, Stand-Pipes, and Troughs.

Claims use since Sept. 15, 1920.

Ser. No. 150,195. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ESTHER GROSSMAN, New York, N. Y. Filed July 9, 1921.

N'JOY
KUMFORT
EXTERMINATOR

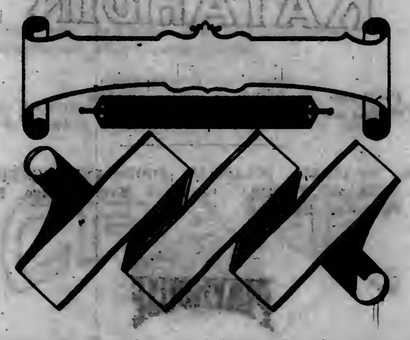


The picture being that of Esther Grossman, the mother of the applicant, no claim being made to the exclusive use of the word "Exterminator" apart from the mark as shown on the drawing.

Particular description of goods.—Insecticide and Vermicide.

Claims use since June 21, 1921.

Ser. No. 150,241. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LIBBY, MCNEILL & LIBBY, Chicago, Ill. Filed July 11, 1921.



The lines being intended for shading purposes only and not indicating color.

Particular description of goods.—Corned Beef.

Claims use since 1875.

Ser. No. 150,270. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE HENRY NEWTON COMPANY, Spokane, Wash. Filed July 12, 1921.

"The Dream Pile Remedy"

No claim being made to the words "Pile Remedy" apart from the mark shown.

Particular description of goods.—A Pile Remedy.

Claims use since Mar. 1, 1919.

Ser. No. 150,324. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES T. NULTY, Philadelphia, Pa. Filed July 13, 1921.



The figure is purely fanciful.

Particular description of goods.—A Preparation for Treatment of Eczema, Pyorrhea, Chafing, Vine-Poison, Infants' Galls, Skin Diseases, Burns, Discharges of Ears, Infections, and Soreness After Shaving.

Claims use since about May 1, 1917.

Ser. No. 150,334. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) G. ROUSIS, San Francisco, Calif. Filed July 13, 1921.



"Popcorn Crisps, Delicious National Food" is disclaimed apart from the other features of the mark shown in the drawing.

Particular description of goods.—Popcorn Crisps.

Claims use since Mar. 1, 1921.

Ser. No. 150,442. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. BERGERMAN & SONS, New York, N. Y. Filed July 16, 1921.

STRONGFAST



Particular description of goods.—Cotton Fabrics in the Form of Piece Goods.

Claims use since Mar. 1, 1921.

Ser. No. 150,506. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DORY C. BLACKER, Indianapolis, Ind. Filed July 18, 1921.



Particular description of goods.—Seasoning Preparations for Soups, Meats, Vegetables, and Fruits.

Claims use since July 7, 1921.

Ser. No. 150,560. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. PLANTEN & SON, INC., Brooklyn, N. Y. Filed July 18, 1921.

"BLAK-KAP"

Consisting of the coined word "Blak-Kap."

Particular description of goods.—Prophylactic Ointment.

Claims use since June 1, 1921.

Ser. No. 150,561. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. Plaenen & Son, Inc., Brooklyn, N. Y. Filed July 18, 1921.



Consisting of the fanciful coined word "Ritox."
Particular description of goods.—Prophylactic Ointment.
Claims use since June 1, 1921.

Ser. No. 150,680. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Henry F. Alexander, M. D., Knoxville, Tenn. Filed July 20, 1921.



Particular description of goods.—A Medicine Recommended for Acidity, Flatulency, Dyspepsia, Headaches, Biliousness, Constipation, Auto-Intoxication, Disturbances of Digestive Organs, Liver, and Kidneys.
Claims use since about July 11, 1921.

Ser. No. 150,654. (CLASS 12. VEHICLES, NOT INCLUDING ENGINES.) Barley Motor Car Company, Kalamazoo, Mich. Filed July 20, 1921.



Particular description of goods.—Automobiles.
Claims use since Sept. 14, 1915.

Ser. No. 150,682. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. A. Folger & Co., San Francisco, Calif. Filed July 20, 1921.



Particular description of goods.—Coffee, Tea, Spices, Mustard, and Food-Flavoring Extracts.
Claims use since 1871.

Ser. No. 150,700. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Adolf Matthes, New York, N. Y. Filed July 20, 1921.

APRICOATING

Particular description of goods.—Apricot Marmalade, a Coating for Pastries, Fruit Tarts, Cakes, Meringues.
Claims use since June 5, 1921.

Ser. No. 150,810. (CLASS 31. FILTERS AND REFRIGERATORS.) Harry L. Hussmann Refrigerator & Supply Company, St. Louis, Mo. Filed July 22, 1921.



The color lining in the drawing indicating that the inner portion of the circular figure surrounding the figure of the cross is blue. We disclaim the exclusive use of the words "Pat'd Freezer Display Counter" except in association with the mark as shown.
Particular description of goods.—Freezer Display-Counter.
Claims use since 1905.

Ser. No. 150,915. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) Mowery Rubber Co., Inc., Oklahoma, Okla. Filed July 25, 1921.



No claim being made to the representation of the goods except in the connection shown.
Particular description of goods.—Rubber Patches for Mending Rubber Tubes.
Claims use since about December, 1911.

Ser. No. 150,939. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Jesse G. Seckary, Scranton, Pa. Filed July 25, 1921.



No claim being made to the words "Made by Chef J. G. Seckary, Scranton, Pa." apart from the mark as shown in the drawing.
Particular description of goods.—Salad-Dressing.
Claims use since Jan. 1, 1921.

Ser. No. 151,030. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) The Blue Cross Chemical Co., Inc., Newark, N. J. Filed July 28, 1921.



The color lining shown on the drawing represents the color blue.
Particular description of goods.—Preparations or Medicines for Whooping-Cough, Catarrh, Bronchitis, Inflamma-

tion of the Lungs, Colds, Whooping-Cough Special for Babies, Rheumatism, Epilepsy and Hysteric Fits, Barber's Itch; Eye-Trachoma, Cataract, and Leucoma; Red, Deformed, or Swollen Nose; Pains in the Stomach and Vomiting, Dyspepsia, Gonorrhea, Asthma and Weak Lungs, Goitre, Scalds and Burns, and Pyorrhea; Eczema and Skin Diseases, Psoriasis and Scurf, Piles and Hematoma, Hydrophobia or Rabies, and a Special Remedy as Blood-Purifier for Weak People.
Claims use since Dec. 14, 1920.

Ser. No. 151,060. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Ohio Dairy Company, Connellsville, Pa. Filed July 28, 1921.



Particular description of goods.—Oleomargarin.
Claims use since July 19, 1921.

Ser. No. 151,065. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Henriette Gabilla, Paris, France. Filed July 29, 1921.



Consisting of the word "Longchamp," beneath which in different type appear the words "Gabilla, Paris." No claim is made to the word "Paris" apart from the mark shown in the drawing.
Particular description of goods.—Toilet Preparations—Namely, Perfumery Extract, Toilet Water, Face-Powder, Sachet-Powder; Skin-Lotion, Vegetable; Eau De Cologne, Hair-Dressing, Talcum Powder, Eau De Dentifrice, and Rouge.
Claims use since May 1, 1921.

Ser. No. 151,095. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) Matson Lace & Braid Company, Boston, Mass. Filed July 29, 1921.

Evron

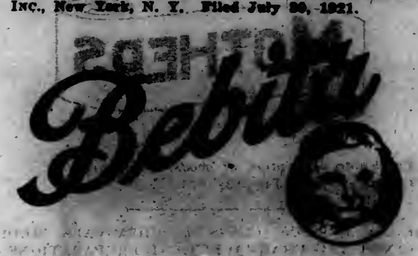
Particular description of goods.—Garment-Lacings.
Claims use since June 4, 1921.

Ser. No. 151,105. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TAYLOR'S, Santa Ana, Calif. Filed July 29, 1921.

Heart o' Gold

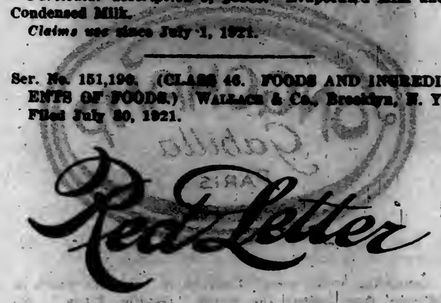
Particular description of goods.—Candies and Chocolates.
Claims use since Apr. 29, 1921.

Ser. No. 151,188. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SHEFFIELD CONDENSED MILK CO. INC., New York, N. Y. Filed July 30, 1921.



The picture of a child shown on the drawing being fanciful.
Particular description of goods.—Evaporated Milk and Condensed Milk.
Claims use since July 1, 1921.

Ser. No. 151,190. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALLACH & CO., Brooklyn, N. Y. Filed July 30, 1921.



The words "Red Letter" being shown in red.
Particular description of goods.—Candies and Chocolates.
Claims use since 1891.

Ser. No. 151,191. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WIRGAN BROS., INC., New York, N. Y. Filed July 30, 1921.



Particular description of goods.—Cake.
Claims use since May 1, 1921.

Ser. No. 151,201. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GRANT BROS., Detroit, Mich. Filed Aug. 1, 1921.



Particular description of goods.—Virginia Compound for General Tonic Use.
Claims use since Feb. 6, 1921.

Ser. No. 151,230. (CLASS 38. PRINTS AND PUBLICATIONS.) SCHAFER BROTHERS COMPANY, Chicago, Ill. Filed Aug. 2, 1921.

The MOTORGRAM

Particular description of goods.—A Monthly Publication.
Claims use since February, 1919.

Ser. No. 151,235. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ECONOMIC MATERIALS CO., Chicago, Ill. Filed Aug. 2, 1921.



Particular description of goods.—Filling for Use in Making Cream Puffs, Eclairs, Cream Slices, Cream Rolls, Othellos, Charlotte Russe, Fruit Tarts, Commercial Squares, Cream Pies, Custard Tartlets, Strawberry Shortcake, Fruit Patties, Cream Layer, Russian Cream Loaf, Almond Cream Tourten, Apple Tourten, Polish Squares, Nougat Tartlets, Bavarian Cream Slices, Pineapple Dainties, Marquise Tarts, Japonais, Grape Tarts.
Claims use since Feb. 1, 1921.

Ser. No. 151,270. (CLASS 5. ADHESIVES.) HARRIS & COX, Lamar, Colo. Filed Aug. 2, 1921.

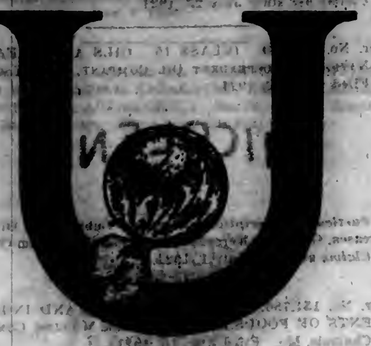
ORNABACK



Particular description of goods.—Padding-Cement to be Used for Gluing Scratch-Pads, Tablets, &c., by Applying with a Brush to the Edge of the Paper to be Formed into Pads for a Filler Having Adhesive Characteristics and Commercially Denominated a Process Fluid, Its Purpose Being to Fill in the Low Places of Electrotypes for the Performance of the Initial Printing Operation.
Claims use since Apr. 1, 1921.

Ser. No. 151,283. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OLD RALSTON CITRUS ASSOCIATION, Upland, Calif. Filed Aug. 3, 1921.

BIG-U



The pictorial representation of an orange does not form a part of the registration sought apart from the mark shown in the drawing.
Particular description of goods.—Fresh Citrus Fruits.
Claims use since March, 1921.

Ser. No. 151,290. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PHILLIPS-TRAWICK COMPANY, Nashville, Tenn. Filed Aug. 2, 1921.

PRINCE ALBERT

Particular description of goods.—Coffee.
Claims use since 1910.

Ser. No. 151,319. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MARTHA A. HELM, New York, N. Y. Filed Aug. 3, 1921.

CAMBRO

Particular description of goods.—A Cleaning and Polishing Compound for Automobile-Bodies, Furniture, Pianos, and Varnished and Painted Surfaces Generally.
Claims use since July 28, 1921.

Ser. No. 151,345. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MORRIS H. WILDSTEIN, New York, N. Y. Filed Aug. 3, 1921.



The trade-mark as used has been printed in red.
Particular description of goods.—Rye Bread.
Claims use since 1906.

Ser. No. 151,502. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE ALUMINUM FLAKE COMPANY, Akron, Ohio. Filed Aug. 6, 1921.

ALUMINUM FLAKE

Particular description of goods.—A Finely-Divided or Pulverized Clay Product for Use as a Raw Material in the Preparation of Rubber Compounds.
Claims use since June, 1905.

Ser. No. 151,529. (CLASS 32. GLASSWARE.) THE BECKLEY-RALSTON CO., Chicago, Ill. Filed Aug. 8, 1921.

GREEN MOON

Particular description of goods.—Headlight-Lenses.
Claims use since July 14, 1921.

Ser. No. 151,552. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BHUTIA & PRATT, Mountain View, N. J. Filed Aug. 8, 1921.

GUI-GE-DIJ



The portrait being that of one of the members of the partnership—Namely, Bhutia—in national Hindu dress.

Particular description of goods.—A Certain Medicinal and Pharmaceutical Preparation for Use as a Treatment in the Diseases of the Blood, Stomach, Liver, Kidney, and Rheumatism.

Claims use since on or about Jan. 1, 1919.

Ser. No. 151,563. (CLASS 43. THREAD AND YARN.) RICHARDSON SILK COMPANY, Chicago, Ill., and New York, N. Y. Filed Aug. 8, 1921.

R·M·C

Particular description of goods.—Sewing Threads and Yarns Used for Crochet, Embroidery, Sewing, Darning, and other Needlework.

Claims use since Jan. 1, 1912.

Ser. No. 151,579. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANCIS P. FOLEY, Philadelphia, Pa. Filed Aug. 9, 1921.

FOLEY'S



The surname is disclaimed apart from the mark as shown, and the picture is fanciful.

Particular description of goods.—Solutions for Intoxicating or Sterilizing Baths.

Claims use since 1912.

Ser. No. 151,606. (CLASS 12. CONSTRUCTION MATERIALS.) ASBESTOS LTD., New York, N. Y. Filed Aug. 10, 1921.

ASBESTO-MAT

Particular description of goods.—Mat-Resisting Packings Made of Fine Asbestos.

Claims use since July 23, 1921.

Ser. No. [illegible]9. (CLASS 15. OILS AND GREASES.) NATIONAL INDEPENDENT OIL COMPANY, [illegible] York, Pa. Filed [illegible], 1921.

NICOLENE

Particular description of goods.—Lubricating Oils and Greases, Gasoline, Kerosene, and Crude Petroleum-Oils.

Claims use since July 1, 1921.

Ser. No. 151,786. [illegible] AND INGREDIENTS OF FOODS.) [illegible] MILLING COMPANY, Chamois, Mo. Filed Aug. 15, 1921.

RED [illegible]

Particular description of goods.—Self-Rising Flour.

Claims use since about March, 1921.

Ser. No. 151,806. (CLASS 12. CONSTRUCTION MATERIALS.) THE NATIONAL DRY KILN CO., Indianapolis, Ind. Filed Aug. 15, 1921.

BURLASBESTOS

Particular description of goods.—Flexible Sheet Material Made of Woven Fabric and Asbestos Especially Useful for Lining Dry-Kiln Doors, Though Also Capable of other Uses.

Claims use since July 30, 1921.

Ser. No. 151,829. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ABE L. GOODMAN, Chicago, Ill. Filed Aug. 16, 1921.

Hy-Drop

Particular description of goods.—Ice.

Claims use since July 1, 1921.

Ser. No. 151,494. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) "VITA PRODUCTS," INC., Baltimore, Md. Filed Aug. 17, 1921.

VITA-GLANDETTES

Particular description of goods.—A General Tonic.

Claims use since Dec. 1, 1920.

Ser. No. 151,946. (CLASS 24. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) HEINE SAFETY BOILER Co., St. Louis, Mo. Filed Aug. 18, 1921.



No claim is made to the exclusive right to the words "Water Tube Boiler Manufactured By, St. Louis, Missouri, Shops, St. Louis, Mo. & Phoenixville, Pa." apart from the mark shown in the drawing.

Particular description of goods.—Water-Tube Boilers.

Claims use since Sept. 29, 1905.

Ser. No. 151,971. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) YELLOW CAB MANUFACTURING Co., Chicago, Ill. Filed Aug. 19, 1921.

AMBASSADOR

Particular description of goods.—Motor-Driven Passenger-Vehicles—Namely, Passenger-Automobiles.

Claims use since Dec. 23, 1920.

Ser. No. 152,008. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE GEM RUBBER MANUFACTURING Co., East Hampton, Conn. Filed Aug. 22, 1921.



Particular description of goods.—Toys—Namely, Toy Graphophones and Toy Telephones.

Claims use since January, 1921.

Ser. No. 152,017. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE W. KIRK, Jeffersonville, Ind. Filed Aug. 22, 1921.

KIRK'S
WHITE



CLOVER

Particular description of goods.—Pile Preparation.

Claims use since May 1, 1920.

Ser. No. 152,047. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) WILLIAM B. THOMPSON, Los Angeles, Calif. Filed Aug. 22, 1921.

ZONERY

Particular description of goods.—Surgical Appliances Consisting of Dental-Nerve-Testers and Tongue-Depressors.

Claims use since Aug. 1, 1920.

Ser. No. 152,098. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHERAMY, INCORPORATED, New York, N. Y. Filed Aug. 23, 1921.

CASTALY

Particular description of goods.—Brilliantine, Face-Cream, Toilet Water, Perfume.
Claims use since July 15, 1921.

Ser. No. 152,109. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) CHARLES G. WRIGHT, Philadelphia, Pa. Filed Aug. 23, 1921.

RITETITE PATCH



The word "Patch" is not claimed apart from the remainder of the mark.
Particular description of goods.—Repair-Patches for Fractured Rubber Goods.
Claims use since Feb. 23, 1921.

Ser. No. 152,179. (CLASS 38. PRINTS AND PUBLICATIONS.) MERCHANTS TRADE JOURNAL, INC., Des Moines, Iowa. Filed Aug. 25, 1921.

Betty Blair

Which mark is a *nom de plume*.
Particular description of goods.—A Section of the *Dry Goods Merchants Trade Journal*, Said Section Being Entitled "Fashions in Ready to Wear," Which Section Appears in Each Month's Issue of the Above-Mentioned Periodical.
Claims use since Jan. 1, 1920.

Ser. No. 152,183. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE RAYBESTOS COMPANY, Bridgeport, Conn. Filed Aug. 25, 1921.

RAYCO

Particular description of goods.—Brake-lining.
Claims use since Aug. 20, 1917.

Ser. No. 152,202. (CLASS 32. FURNITURE AND UPHOLSTERY.) AMERICAN SEATING COMPANY, Chicago, Ill. Filed Aug. 27, 1921.

1880 AMERICAN SEATING COMPANY 1920

Particular description of goods.—Church Furniture and Equipment—Namely, Pews, Chairs, and Seats of Plain and Upholstered Construction, Pulpits, Sanctuary Furniture, and Altars, and Parts Thereof;
School and Class-Room Furniture of Wood, Steel, and Iron Construction or a Combination Thereof—Namely, Desks, Tables, Chairs, Seats, Stools, Benches, Collapsible Chairs, Arm-Chairs, Combination Adjustable Chair and Desk, and Parts Thereof;
Theater Furniture Consisting of Seats and Chairs and Parts Thereof of Wood, Iron, and Cane, or Combination Thereof, of Plain and Upholstered Construction.
Office Furniture—Namely, Roll-Top Desks, Flat Desks, Typewriter and Calculating-Machine Cabinet-Desks with Seats and Revolving Chairs, and Parts Thereof.
Claims use since 1917.

Ser. No. 152,257. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) INLAND RUBBER COMPANY, Chicago, Ill. Filed Aug. 27, 1921.

INLAND

Particular description of goods.—Automobile Rubber Tires.
Claims use since Dec. 16, 1918.

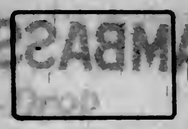
Ser. No. 152,260. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LOS ANGELES SOAP CO., Los Angeles, Calif. Filed Aug. 27, 1921.

ELYSIAN VIOLET

The word "Violet" does not form a part of registration sought apart from the mark shown in the drawing.
Particular description of goods.—Toilet Soap.
Claims use since 1900.

Ser. No. 152,268. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE R. M. HOLLINGSHEAD CO., Camden, N. J. Filed Aug. 30, 1921.

Whiz



Particular description of goods.—All-Rubber Patch Adhesive Outfit.
Claims use since about Apr. 1, 1920.

Ser. No. 152,469. (CLASS 38. PRINTS AND PUBLICATIONS.) LESTER K. HOUSER, New York, N. Y. Filed Sept. 1, 1921.

The SPECULATOR



Particular description of goods.—Daily Publications Relating to Horse-Racing and Similar Sports.
Claims use since Aug. 1, 1921.

Ser. No. 152,482. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE RELIANCE COAL AND COKE CO., Cincinnati, Ohio. Filed Sept. 1, 1921.

BLUE JACKET

Particular description of goods.—Coal.
Claims use since January, 1915.

Ser. No. 152,492. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) WHEELING CORRUGATING COMPANY, Wheeling, W. Va. Filed Sept. 1, 1921.

CRESCENT LOCK

No claim is made to the word "Lock" apart from the mark shown.
Particular description of goods.—Stovepipe.
Claims use since about Jan. 1, 1900.

Ser. No. 152,580. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) AMERICAN HARD RUBBER COMPANY, New York, N. Y. Filed Sept. 3, 1921.

Vanity

Particular description of goods.—Combs for Dressing, Ornamenting, and Cleaning the Hair, Not Made of Precious Metal or in Imitation of Precious Metal.
Claims use since Aug. 15, 1921.

Ser. No. 152,568. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) KIRK PARTNERS & FORBESBROOK LTD., Belfast, Ireland. Filed Sept. 3, 1921.

KIRKLIN

Particular description of goods.—Linen and Hemp Piece Goods and Union Piece Goods in Which Linen Predominates.
Claims use since Apr. 27, 1921.

Ser. No. 152,657. (CLASS 43. THREAD AND YARN.) STEINBRENNER BROS. INC., New York, N. Y. Filed Sept. 6, 1921.

MOR-MA

Particular description of goods.—Silk, Wool, Cotton, and Linen Yarns and Mixtures Thereof.
Claims use since Aug. 15, 1921.

Ser. No. 152,677. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GILBERT BROS. & CO. INC., Baltimore, Md. Filed Sept. 7, 1921.

YAGER'S



LINIMENT

No claim being made to the exclusive right to the use of the word "Liniment" apart from the mark shown in the drawing.
Particular description of goods.—A Liniment for the Treatment of Nerve, Muscular, and Like Troubles, Cuts, Stings, &c., and of Miscellaneous Diseases and Injuries of Horses and Cattle.
Claims use since about Mar. 1, 1894.

Ser. No. 152,687. (CLASS 38. PRINTS AND PUBLICATIONS.) NEW YORK TRIBUNE INC., New York, N. Y. Filed Sept. 7, 1921.

IN ALL FAIRNESS

Particular description of goods.—The Title for a Newspaper-Column.
Claims use since July 10, 1916.

Ser. No. 152,707. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) Gude Bros. Co., Washington, D. C. Filed Sept. 8, 1921. Under ten-year proviso.

Gudes

Particular description of goods.—Natural Flowers and Plants and Floral Decorations Made of Natural Flowers.
Claims use since August, 1889.

Ser. No. 152,712. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEONA LIEBER INC., New York, N. Y. Filed Sept. 8, 1921.

Radiant

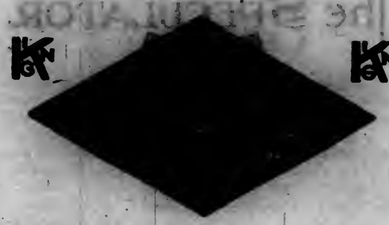
Particular description of goods.—A Lotion to be Applied to the Face to Stimulate Blood Circulation.
Claims use since June 10, 1921.

Ser. No. 152,[illegible]. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE STANDARD ULTRAMARINE CO., Huntington, W. Va. Filed Sept. 8, 1921.



Particular description of goods.—Laundry Blue.
Claims use since Jan. 1, 1919.

Ser. No. 152,742. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAKOTA COMPOUND COMPANY, Pierre, S. D. Filed Sept. 9, 1921.



No claim being made to the words "Boiler Compound" apart from the mark shown.
Particular description of goods.—A Compound for Removing and Preventing Scale and Rust in Boilers, Radiators, Kettles, and other Vessels.
Claims use since Mar. 20, 1921.

Ser. No. 152,811. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) HELEN STUART SPENCER, Denver, Colo. Filed Sept. 10, 1921.



Particular description of goods.—Fabrics, Garments, Robes, Blankets, Pads, and Electric Appliances Having Magnet-Wire Interwoven within or Sewed upon the Fabric in Such a Manner as Will Create a Magnetic Field for Imparting Magnetic Waves, Electric Heat, and Radiation to the Human Body.
Claims use since Mar. 1, 1921.

Ser. No. 152,947. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ERNEST W. BULLOCK, Grand Rapids, Mich. Filed Sept. 15, 1921.

H-U-S-K

Particular description of goods.—Healing-Lotion.
Claims use since Apr. 1, 1911.

Ser. No. 152,963. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EUGENE H. MARCUS, Los Angeles, Calif. Filed Sept. 15, 1921.

GLANDOGEN

Particular description of goods.—A Glandular Preparation in the Form of a Powder to be Used as a General Tonic for the Glands of the Human Body.
Claims use since Aug. 15, 1921.

Ser. No. 152,985. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) COLGATE & COMPANY, Jersey City, N. J. Filed Sept. 16, 1921.

Clair de Lune

Particular description of goods.—Soaps.
Claims use since Sept. 7, 1921.

Ser. No. 152,998. (CLASS 15. OILS AND GREASES.) THE GRAFF-O-PRODUCTS CO., Cleveland, Ohio. Filed Sept. 16, 1921.

GRAFF-O-OIL



Particular description of goods.—Penetrating Graphite Oil.
Claims use since 1911.

Ser. No. 153,009. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MERCK & CO., New York, N. Y. Filed Sept. 16, 1921.

QUINARPHIN

Particular description of goods.—A Preparation Used in Medicine in the Form of Solution for the Production of Complete or Partial Narcosis.
Claims use since Aug. 5, 1921.

Ser. No. 153,343. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GOODMAN-MCCABE PRODUCTS CO., Detroit, Mich. Filed Sept. 26, 1921.

KEN-NITE

Particular description of goods.—Automobile and Furniture Polish.
Claims use since Aug. 10, 1921.

Ser. No. 153,371. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) JOHN A. STEEN VARNISH COMPANY, Chicago, Ill. Filed Sept. 26, 1921.

SERVICESEAL

Particular description of goods.—A Rapid-Drying Varnish-Binder and a Rapid-Drying Varnish.
Claims use since Apr. 4, 1921.

Ser. No. 153,828. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) JOHN SEXTON AND COMPANY, Chicago, Ill. Filed Oct. 6, 1921.

EDELWEISS

Particular description of goods.—Matches.
Claims use since Apr. 1, 1920.

Ser. No. 153,894. (CLASS 2. RECEPTACLES.) The American Plastic Products, Corp., New York, N. Y. Filed Oct. 7, 1921.

PLASTO

Particular description of goods.—Containers—viz., Candy-Boxes.
Claims use since June 8, 1921.

Ser. No. 153,931. (CLASS 43. THREAD AND YARN.) Louis Hirsch, Brooklyn, N. Y. Filed Oct. 10, 1921.

Particular description of goods.—Wool and Silk Knitting-Yarn.
Claims use since Sept. 27, 1921.

Ser. No. 153,991. (CLASS 43. THREAD AND YARN.) Max Pollack & Co., Inc., New York, N. Y. Filed Oct. 11, 1921.

EMPECO

Particular description of goods.—Sewing-Threads.
Claims use since about May 1, 1921.

Ser. No. 154,676. (CLASS 31. FILTERS AND REFRIGERATORS.) The Brunswick-Balke-Collender Company, Wilmington, Del., and Chicago, Ill. Filed Oct. 28, 1921. Under ten-year proviso.

Brunswick

Particular description of goods.—Refrigerators.
Claims use since on or before Jan. 1, 1892.

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TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

NOVEMBER 29, 1921.

148,775. NATURAL THERMAL WATER FOR TABLE AND HYGIENIC USE. Aachener Thermalwasser "Kaiserbrunnen" Aktiengesellschaft, Aachen, Germany.
Filed September 11, 1920. Serial No. 137,060. PUBLISHED AUGUST 2, 1921.

148,776. [WITHDRAWN.]

148,777. RHINE WINE. Alsace Lorraine Development & Trading Company Limited, London, England.
Filed November 27, 1920. Serial No. 140,241. PUBLISHED AUGUST 2, 1921.

148,778. PORTABLE REPAIR-KITS. The American Automobile Accessories Company, Cincinnati, Ohio.
Filed July 5, 1919. Serial No. 120,272. PUBLISHED AUGUST 9, 1921.

148,779. GASOLENE, LUBRICATING-OILS, ENGINE DISTILLATE, LUBRICATING-GREASES, KEROSENE. American Pacific Company, Inc., San Francisco, Calif.
Filed March 16, 1920. Serial No. 129,771. PUBLISHED AUGUST 9, 1921.

148,780. CERTAIN NAMED TOYS STAMPED FROM SHEET METAL. American Stamping Company, Elizabeth, N. J.
Filed September 10, 1919. Serial No. 122,505. PUBLISHED JANUARY 6, 1920.

148,781. BROOMS SPECIFICALLY ADAPTED FOR APPLYING STUCCO. Marcus Peyton Andrews, Richmond, Va.
Filed June 28, 1920. Serial No. 134,291. PUBLISHED AUGUST 2, 1921.

148,782. A MEDICATED SALVE FOR THE TREATMENT OF CUTS OR BRUISES. Satda Asfour, Brooklyn, N. Y.
Filed June 4, 1920. Serial No. 133,343. PUBLISHED JULY 26, 1921.

148,783. DENTAL RUBBER, DENTAL DAM, BULBS FOR DENTAL USE, AND PLASTER-BOWLS. Atlantic Rubber Mfg. Corporation, New York, N. Y.
Filed April 20, 1920. Serial No. 131,372. PUBLISHED AUGUST 2, 1920.

148,784. INFANTS' CLOTHING—NAMELY, BABY FLANNEL GOWNS, BATH-ROBES, BUNTINGS, ROMPERS—AND CHILDREN'S DRESSES. Attias Brothers, New York, N. Y.
Filed July 3, 1920. Serial No. 134,533. PUBLISHED DECEMBER 14, 1920.

148,785. AUTOMOBILE TIRES AND TUBES OF RUBBER. Automobile Owners' Tire Corporation, St. Paul, Minn.
Filed December 16, 1920. Serial No. 141,150. PUBLISHED AUGUST 9, 1921.

148,786. AN OIL COMPOUND USED IN THE BAKING OF FOOD PRODUCTS AS A PAN, TROUGH, AND DIVIDER GREASE. The Bakers Products Company, Cleveland, Ohio.
Filed May 15, 1919. Serial No. 118,505. PUBLISHED AUGUST 9, 1921.

148,787. GAS WATER-HEATERS. Bastian-Morley Co., La Porte, Ind.
Filed July 13, 1920. Serial No. 134,876. PUBLISHED AUGUST 2, 1921.

148,788. A STABLE MOBILE FUEL COMPRISING AN ADMIXTURE OF LIQUID HYDROCARBON AND PULVERIZED SOLID CARBONACEOUS SUBSTANCES. Lindon W. Bates, Mount Lebanon, N. Y.
Filed June 16, 1920. Serial No. 133,759. PUBLISHED AUGUST 2, 1921.

148,789. CERTAIN OPTICAL PRODUCTS, ENGINEERING AND OTHER INSTRUMENTS OF PRECISION, PHOTOGRAPHIC, SCIENTIFIC, AND LABORATORY APPARATUS. Bausch & Lomb Optical Co., Rochester, N. Y.
Filed April 17, 1920. Serial No. 131,252. PUBLISHED AUGUST 2, 1921.

148,790. PIECE GOODS OF SILK, WOOL, LINEN, COTTON, AND CHINA-GRASS. Bianchini, Frères, Lyon, France.
Filed March 25, 1921. Serial No. 145,207. PUBLISHED AUGUST 2, 1921.

148,791. PREPARED BISCUIT-FLOUR, PIE-DOUGH FLOUR, CAKE-FLOUR, AND PANCAKE-FLOUR. C. F. Blanke Sales Company, St. Louis, Mo.
Filed October 30, 1920. Serial No. 138,976. PUBLISHED AUGUST 9, 1921.

148,792. DOLLS. George Borgfeldt & Co., New York, N. Y.
Filed January 6, 1921. Serial No. 141,896. PUBLISHED AUGUST 2, 1921.

148,793. CANNED FRUITS, EXCEPT OLIVES, CANNED VEGETABLES. California Growers Association, Inc., Los Angeles, Calif.
Filed September 15, 1920. Serial No. 137,206. PUBLISHED DECEMBER 7, 1920.

148,794. A CERTAIN NAMED MEDICINAL MINERAL WATER. Donald S. Campbell, Salt Lake City, Utah.
Filed June 7, 1920. Serial No. 133,349. PUBLISHED AUGUST 9, 1921.

148,795. A DEODORANT COMPOUND. Thomas Arthur Carney, Butte, Mont.
Filed February 17, 1921. Serial No. 143,687. PUBLISHED JULY 26, 1921.

148,796. MANUFACTURED LEATHER. Edward B. Casgatt, Cleveland, Ohio.
Filed April 22, 1920. Serial No. 131,465. PUBLISHED AUGUST 9, 1921.

148,797. KANSAS HARD-WHEAT PATENT FLOUR. Edgar O. Challenger, New York, N. Y.
Filed May 9, 1919. Serial No. 118,294. PUBLISHED SEPTEMBER 14, 1920.

148,798. CREAM-SEPARATORS. The Charles William Stoerer, Inc., Brooklyn, N. Y.
Filed March 8, 1921. Serial No. 144,490. PUBLISHED AUGUST 2, 1921.

148,799. LEATHERS. Chicago Tanning Co., Chicago, Ill.
Filed June 13, 1921. Serial No. 149,056. PUBLISHED JULY 26, 1921.

148,800. SOAPS. Colgate & Company, Jersey City, N. J.
Filed June 13, 1921. Serial No. 149,061. PUBLISHED JULY 26, 1921.

148,801. SOAPS. COLGATE & COMPANY, Jersey City, N. J.
Filed June 13, 1921. Serial No. 149,063. PUBLISHED JULY 26, 1921.

148,802. SOAPS. COLGATE & COMPANY, Jersey City, N. J.
Filed June 13, 1921. Serial No. 149,065. PUBLISHED JULY 26, 1921.

148,803. SOAPS. COLGATE & COMPANY, Jersey City, N. J.
Filed June 13, 1921. Serial No. 149,066. PUBLISHED JULY 26, 1921.

148,804. CHAINS. THE COLUMBUS McKINNON CHAIN COMPANY, Columbus, Ohio.
Filed March 14, 1921. Serial No. 144,708. PUBLISHED AUGUST 2, 1921.

148,805. HAMMERS, HATCHETS, FILES, HAND-SAWS, ICE-PICKS, CAN-OPENERS, WRENCHES, AND CERTAIN OTHER TOOLS. CONSOLIDATED TOOL WORKS, INC., New York, N. Y.
Filed July 14, 1920. Serial No. 134,933. PUBLISHED AUGUST 9, 1921.

148,806. LUBRICATING OILS AND GREASES. CORNING INTERNATIONAL CORPORATION, New York, N. Y.
Filed September 7, 1920. Serial No. 136,273. PUBLISHED AUGUST 9, 1921.

148,807. AUTOMOBILE-TIRE CASING AND TIRE-TUBES COMPOSED OF RUBBER. CORONA CORD TIRE COMPANY, East Butler, Pa.
Filed November 4, 1920. Serial No. 139,148. PUBLISHED AUGUST 9, 1921.

148,808. CANNED FRUITS, CANNED VEGETABLES, AND FRUIT PRESERVES. CROSSE PACKING CO., San Francisco, Calif.
Filed June 9, 1920. Serial No. 133,448. PUBLISHED AUGUST 9, 1921.

148,809. TALKING-MACHINES. CUNNINGHAM PIANO COMPANY, Philadelphia, Pa.
Filed March 11, 1921. Serial No. 144,605. PUBLISHED JULY 26, 1921.

148,810. RUBBER TIRES AND TUBES. CUPPLES COMPANY MANUFACTURERS, St. Louis, Mo.
Filed April 30, 1920. Serial No. 131,880. PUBLISHED AUGUST 2, 1921.

148,811. HAIR-RESTORATIVES. CARL DANSCHINSKY, New York, N. Y.
Filed March 19, 1921. Serial No. 144,966. PUBLISHED AUGUST 9, 1921.

148,812. PASTRY-FLOUR MADE FROM WHEAT. DAYTON MILLING COMPANY, Dayton, Tenn.
Filed February 14, 1921. Serial No. 143,549. PUBLISHED AUGUST 9, 1921.

148,813. TOY AUTO DUMP-TRUCK. DEAN & WILLIAMS CO., Chicago, Ill., and Harbor Springs, Mich.
Filed April 27, 1920. Serial No. 131,701. PUBLISHED JULY 26, 1921.

148,814. BONBONS AND CHOCOLATES. GEORGE S. DILLS & COMPANY, Bay City, Mich.
Filed May 26, 1919. Serial No. 118,966. PUBLISHED MAY 4, 1920.

148,815. SOAP IN PASTE FORM. JOHN F. DOBBS, Salem, Oreg.
Filed February 7, 1921. Serial No. 143,262. PUBLISHED AUGUST 9, 1921.

148,816. CUT-OUT DOLLS. WILLIAM DONAHEY, Chicago, Ill.
Filed March 3, 1921. Serial No. 144,279. PUBLISHED AUGUST 2, 1921.

148,817. AROMATIC ALKALINE POWDER FOR MOUTH AND TOOTH WASHES. LEO DREYFUS, New York, N. Y.
Filed August 30, 1920. Serial No. 136,620. PUBLISHED JULY 26, 1921.

148,818. CERTAIN NAMED CHEMICAL AND MEDICINAL PREPARATIONS. DRUG PRODUCTS CO., INC., New York, N. Y.
Filed February 2, 1920. Serial No. 127,854. PUBLISHED AUGUST 2, 1921.

148,819. DYESTUFFS. E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del.
Filed September 2, 1920. Serial No. 136,747. PUBLISHED JULY 19, 1921.

148,820. LEAD-PENCILS. EAGLE PENCIL COMPANY, New York, N. Y.
Filed March 1, 1921. Serial No. 144,182. PUBLISHED JULY 26, 1921.

148,821. CERTAIN METAL-WORKING TOOLS, VISES, SAWS, SPANNERS AND WRENCHES, RATCHET-BRACES, AND OTHER TOOLS. EASTERBROOK ALLCARD & CO. LIMITED, Sheffield, England.
Filed August 23, 1920. Serial No. 136,366. PUBLISHED AUGUST 2, 1921.

148,822. SILK PIECE GOODS. EASTERN DISTRICT PIECE DYE WORKS INC., Brooklyn, N. Y.
Filed June 22, 1920. Serial No. 134,014. PUBLISHED AUGUST 9, 1921.

148,823. FELT POLISHING-WHEELS AND FELTS THEREFOR. EASTERN FELT COMPANY, Winchester, Mass.
Filed January 26, 1921. Serial No. 142,784. PUBLISHED AUGUST 9, 1921.

148,824. ARMORED CONDUCTORS AND FLEXIBLE STEEL CONDUITS. EASTERN TUBE & TOOL COMPANY, INC., Brooklyn, N. Y.
Filed November 24, 1920. Serial No. 140,103. PUBLISHED JULY 26, 1921.

148,825. FOOD-FLAVORING EXTRACTS. ELK MANUFACTURING COMPANY, Jellico, Tenn.
Filed June 10, 1920. Serial No. 133,500. PUBLISHED AUGUST 9, 1921.

148,826. HOUSE-DRESSES AND APRONS. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo.
Filed March 7, 1921. Serial No. 144,388. PUBLISHED JUNE 21, 1921.

148,827. PARLOR BASEBALL GAMES. W. JAY EMMISON, New York, N. Y.
Filed December 30, 1920. Serial No. 141,675. PUBLISHED AUGUST 2, 1921.

148,828. ARTIFICIAL FISHING-BAITS. LOU J. EPPINGER, Detroit, Mich.
Filed December 6, 1920. Serial No. 140,638. PUBLISHED JULY 26, 1921.

148,829. DENIMS IN THE PIECE. THE ERWIN COTTON MILLS CO., West Durham, N. C.
Filed September 22, 1920. Serial No. 137,455. PUBLISHED JULY 26, 1921.

148,830. RUBBER AND COMPOSITION SOLES AND HEELS. ESSEX RUBBER COMPANY, Trenton, N. J.
Filed April 23, 1920. Serial No. 131,520. PUBLISHED JULY 26, 1921.

148,831. CERTAIN NAMED MEDICINAL PREPARATIONS. CARLO O. FARINA, San Francisco, Calif.
Filed August 25, 1920. Serial No. 136,469. PUBLISHED AUGUST 2, 1921.

148,832. DRIERS AND SPRAY-NOZZLES USED IN THE DRYING OF VARIOUS MATERIALS. W. L. FLEISCHER & CO. INC., New York, N. Y.
Filed September 18, 1920. Serial No. 137,316. PUBLISHED AUGUST 9, 1921.

148,833. PEANUTS IN THE SHELL. FRANKLIN PEANUT COMPANY, Franklin, Va.
Filed March 16, 1921. Serial No. 144,806. PUBLISHED AUGUST 2, 1921.

148,834. SHOES OF LEATHER AND OF LEATHER AND FABRIC. FRENCH AMERICAN IMPORT CO., Boston, Mass.
Filed November 18, 1920. Serial No. 139,795. PUBLISHED APRIL 5, 1921.

148,835. A CLEANER FOR CLEANING METAL BEFORE ELECTROPLATING THE SAME. FRONTIER CHEMICAL CO., Buffalo, N. Y.
Filed June 13, 1921. Serial No. 149,077. PUBLISHED JULY 26, 1921.

148,836. CHEMICAL SOLUTION FOR THE REMOVAL OF OBSTRUCTIONS IN DRAIN-PIPES. GEORGE W. GALLAWAY, New York, N. Y.
Filed February 16, 1921. Serial No. 143,639. PUBLISHED JULY 26, 1921.

148,837. BANK DEPOSIT-BOOKS. GEORGE P. GARIS, Chicago, Ill.
Filed March 10, 1921. Serial No. 144,570. PUBLISHED JULY 26, 1921.

148,838. CERTAIN NAMED GLASSWARE. GENERAL ELECTRIC COMPANY, Schenectady, N. Y.
Filed June 11, 1921. Serial No. 148,999. PUBLISHED JULY 19, 1921.

148,839. CERTAIN NAMED GLASSWARE. GENERAL ELECTRIC COMPANY, Schenectady, N. Y.
Filed June 11, 1921. Serial No. 149,000. PUBLISHED JULY 19, 1921.

148,840. MEN'S AND YOUNG MEN'S SUITS AND OVERCOATS. GOLDSMITH, NEUMANN & CO., (now by change of name The Neumann Company, Inc.,) Chicago, Ill.
Filed June 30, 1919. Serial No. 119,900. PUBLISHED JULY 12, 1921.

148,841. A MOUTH-WASH. SAMUEL H. GOODWILLIE, Chicago, Ill.
Filed February 28, 1921. Serial No. 143,921. PUBLISHED JULY 26, 1921.

148,842. ELECTRIC ENGINE-STARTING SYSTEMS, IGNITION AND GENERATING SYSTEMS, SWITCHES, AND ELECTRIC LAMPS. GRAY & DAVIS INC., Cambridge, Mass.
Filed June 8, 1920. Serial No. 133,207. PUBLISHED JULY 26, 1921.

148,843. PERFUMES, TOILET WATERS, FACE-POWDER, FACE-LOTION, AND BRILLIANTINE. MARIE MARTHE RICHARD VVE. GRENOVILLE, Asnières, France.
Filed March 24, 1921. Serial No. 145,184. PUBLISHED AUGUST 9, 1921.

148,844. PERFUMES, TOILET WATERS, FACE-LOTION, FACE-POWDER, AND BRILLIANTINE. MARIE MARTHE RICHARD VVE. GRENOVILLE, Asnières, France.
Filed March 24, 1921. Serial No. 145,185. PUBLISHED AUGUST 9, 1921.

148,845. PERFUMES, TOILET WATERS, FACE-POWDER, FACE-LOTION, AND BRILLIANTINE. MARIE MARTHE RICHARD VVE. GRENOVILLE, Asnières, France.
Filed March 24, 1921. Serial No. 145,186. PUBLISHED AUGUST 9, 1921.

148,846. SHAVING-SOAPS. MARIE MARTHE RICHARD VVE. GRENOVILLE, Asnières, France.
Filed March 24, 1921. Serial No. 145,187. PUBLISHED AUGUST 9, 1921.

148,847. PERFUMES, TOILET WATERS, FACE-POWDER, FACE-LOTION, AND BRILLIANTINE. MARIE MARTHE RICHARD VVE. GRENOVILLE, Asnières, France.
Filed March 24, 1921. Serial No. 145,188. PUBLISHED AUGUST 9, 1921.

148,848. EAU DE COLOGNE. MARIE MARTHE RICHARD VVE. GRENOVILLE, Asnières, France.
Filed March 24, 1921. Serial No. 146,191. PUBLISHED AUGUST 9, 1921.

148,849. PERFUMES, TOILET WATERS, BRILLIANTINE, FACE-LOTIONS, AND FACE-POWDERS. MARIE MARTHE RICHARD VVE. GRENOVILLE, Asnières, France.
Filed March 24, 1921. Serial No. 145,192. PUBLISHED AUGUST 9, 1921.

148,850. RUBBER CEMENT. HADLEY BROS.-UHL COMPANY, St. Louis, Mo.
Filed December 2, 1920. Serial No. 140,530. PUBLISHED JUNE 28, 1921.

148,851. FERROUS-ALLOY STEELS. HALCOMB STEEL COMPANY, Syracuse, N. Y.
Filed March 1, 1921. Serial No. 144,185. PUBLISHED AUGUST 2, 1921.

148,852. FERROUS-ALLOY STEELS. HALCOMB STEEL COMPANY, Syracuse, N. Y.
Filed March 1, 1921. Serial No. 144,186. PUBLISHED AUGUST 2, 1921.

148,853. FERROUS-ALLOY STEELS. HALCOMB STEEL COMPANY, Syracuse, N. Y.
Filed March 1, 1921. Serial No. 144,187. PUBLISHED AUGUST 2, 1921.

148,854. FERROUS-ALLOY STEELS. HALCOMB STEEL COMPANY, Syracuse, N. Y.
Filed March 1, 1921. Serial No. 144,188. PUBLISHED AUGUST 2, 1921.

148,855. A PREPARATION FOR KILLING FLIES AND LICE. J. A. HAND SON CO., Moosic, Pa.
Filed March 22, 1921. Serial No. 145,063. PUBLISHED AUGUST 2, 1921.

148,856. TELEPHONIC APPARATUS. ERICH HAUSSNER, Charlottenburg, Germany.
Filed October 23, 1920. Serial No. 138,714. PUBLISHED JULY 26, 1921.

148,857. LEATHER BELTING. HIDE LEATHER & BELTING CO., Indianapolis, Ind.
Filed June 5, 1920. Serial No. 133,310. PUBLISHED AUGUST 9, 1921.

148,858. A PREPARATION FOR THE TREATMENT OF ASTHMA. FRANCIS L. HOLLIDAY, Westerly, R. I.
Filed October 9, 1920. Serial No. 138,125. PUBLISHED JULY 26, 1921.

148,859. SWEET CHOCOLATE. HOOTON COCOA COMPANY, Newark, N. J.
Filed January 14, 1920. Serial No. 127,123. PUBLISHED AUGUST 9, 1921.

148,860. DOLLS. E. I. HORSMAN & AETNA DOLL CO. INC., New York, N. Y.
Filed November 9, 1920. Serial No. 139,398. PUBLISHED JULY 26, 1921.

148,861. CANDY. HOWARD H. HOYT CANDY CO., Chicago, Ill.
Filed January 4, 1921. Serial No. 141,834. PUBLISHED AUGUST 9, 1921.

148,862. PLAYING-CARDS. GEORGE B. HUMD & CO., New York, N. Y.
Filed March 15, 1921. Serial No. 144,775. PUBLISHED AUGUST 9, 1921.

148,863. YARNS. ABRAHAM HYMES, New York, N. Y.
Filed November 17, 1920. Serial No. 139,777. PUBLISHED AUGUST 2, 1921.

148,864. A CLEANSING COMPOUND FOR HOUSEHOLD USE. HYSAN MANUFACTURING CO., Chicago, Ill.
Filed December 4, 1920. Serial No. 140,594. PUBLISHED AUGUST 9, 1921.

148,865. A FLAT PAINT FOR FINISHING INTERIOR WALLS, CEILINGS, AND WOODWORK. INDIANA INDESTRUCTIBLE PAINT CO., Chicago, Ill.
Filed February 27, 1920. Serial No. 128,967. PUBLISHED SEPTEMBER 14, 1920.

148,866. CERTAIN NAMED CHEMICAL AND MEDICINAL PREPARATIONS. INDUSTRIAL CHEMICAL COMPANY, New York, N. Y.
Filed May 21, 1919. Serial No. 118,757. PUBLISHED AUGUST 9, 1921.

148,867. A MEDICINE FOR THE TREATMENT OF ASTHMA. INGALLS BROTHERS, Manchester, N. H.
Filed March 26, 1921. Serial No. 145,268. PUBLISHED AUGUST 2, 1921.

148,868. CERTAIN NAMED MEDICINAL, TOILET, AND CHEMICAL PREPARATIONS. INTERNATIONAL DRUG COMPANY, Wilmington, Del.
Filed April 15, 1920. Serial No. 131,173. PUBLISHED AUGUST 9, 1921.

148,869. MEN'S, WOMEN'S, AND CHILDREN'S SHOES OF LEATHER, RUBBER, FABRIC, AND COMBINATION MATERIALS. INTERNATIONAL SHOE COMPANY, St. Louis, Mo.
Filed July 28, 1919. Serial No. 120,903. PUBLISHED JUNE 22, 1920.

148,870. CERTAIN NAMED RUBBER, COMPOSITION, TEXTILE, CELLULOID, WOOD, PAPER AND METAL TOYS. IROKESE TRADING CORPORATION, New York, N. Y.
Filed November 22, 1920. Serial No. 139,973. PUBLISHED AUGUST 2, 1921.

148,871. NON-ALCOHOLIC CEREAL BEVERAGE CONTAINING MALT, BUT LESS THAN ONE-HALF OF ONE PER CENT. OF ALCOHOL, AND SOLD AS A SOFT DRINK. IROQUOIS BEVERAGE COMPANY, INC., Buffalo, N. Y.
Filed May 6, 1921. Serial No. 147,292. PUBLISHED JULY 19, 1921.

148,872. HAIR-GROWER, PRESSING-OIL, FACE-WRINKLE CREAM, SHAMPOO, TETTER-RELIEF, SPECIAL GROWER, TEMPLE-GROWER. EMMA B. JACKSON, Helena, Ark.
Filed August 27, 1920. Serial No. 136,562. PUBLISHED AUGUST 9, 1921.

148,873. CERTAIN NAMED MEDICINAL PREPARATIONS. CUMBERLAND F. JONES, Chicago, Ill.
Filed May 17, 1920. Serial No. 132,533. PUBLISHED AUGUST 2, 1921.

148,874. LEATHER FOOT-BALLS. JORDAN MARSH, COMPANY, Boston, Mass.
Filed December 11, 1920. Serial No. 140,955. PUBLISHED JULY 26, 1921.

148,875. CHOCOLATES. JOSEPHINE CHOCOLATES, LIMITED, London, England.
Filed October 27, 1920. Serial No. 138,859. PUBLISHED MAY 24, 1921.

148,876. FLANNEL, WOOLEN CLOTHS, HAIR CLOTHS AND HAIR FABRICS, &c., IN THE PIECE. KELSALL & KEMP LIMITED, Rochdale, England.
Filed December 15, 1920. Serial No. 141,117. PUBLISHED AUGUST 2, 1921.

148,877. DENATURED ALCOHOL. KENTUCKY DISTILLERIES & WAREHOUSE CO., New York, N. Y.
Filed March 15, 1921. Serial No. 144,778. PUBLISHED AUGUST 9, 1921.

148,878. POULTICES FOR INFECTED WOUNDS. BARBARA KOCH, Grand Forks, N. D.
Filed March 14, 1921. Serial No. 144,726. PUBLISHED JULY 26, 1921.

148,879. FUEL-ECONOMIZERS—NAMELY, AIR-FEEDING DEVICES FOR COAL AND GAS STOVES AND FURNACES. HARRY A. KOENIG, Philadelphia, Pa.
Filed March 5, 1921. Serial No. 144,337. PUBLISHED AUGUST 2, 1921.

148,880. A MEDICINE FOR INFLUENZA, COLDS, CHOLERA, AND PNEUMONIA. LUDMILA KUBANEK, Lorain, Ohio.
Filed February 17, 1921. Serial No. 143,694. PUBLISHED AUGUST 9, 1921.

148,881. ELECTRIC HEADLIGHTS. JOHN H. LAIRD, Louisville, Ky., assignor to Laird Manufacturing Company, Louisville, Ky., a Corporation of Kentucky.
Filed January 20, 1921. Serial No. 142,796. PUBLISHED JULY 26, 1921.

148,882. BELTING MADE FROM CANVAS, TREATED CANVAS, OR LEATHER. LAMBORN & CO., New York, N. Y.
Filed June 17, 1920. Serial No. 133,830. PUBLISHED AUGUST 2, 1921.

148,883. LEATHER SHOES. WILLIAM LANE, INC., Brooklyn, N. Y.
Filed November 5, 1920. Serial No. 139,213. PUBLISHED MARCH 8, 1921.

148,884. DRESS-BELTING. ABRAHAM LABOMAN, Philadelphia, Pa.
Filed August 27, 1920. Serial No. 136,505. PUBLISHED JULY 20, 1921.

148,885. A PREPARATION FOR RESTORING HAIR TO ITS NATURAL COLOR AND REMOVING DANDRUFF. WALDEMAR LEDERMANN & SONS, Brooklyn, N. Y.
Filed February 24, 1921. Serial No. 144,008. PUBLISHED JULY 26, 1921.

148,886. CERTAIN NAMED PAPER AND STATIONERY. LEVARAC PAPER PRODUCTS CORPORATION, New York, N. Y.
Filed March 18, 1920. Serial No. 129,896. PUBLISHED JULY 26, 1921.

148,887. JERSEY CLOTH IN THE PIECE. WALTER M. LEVY, New York, N. Y.
Filed June 15, 1920. Serial No. 133,739. PUBLISHED AUGUST 2, 1921.

148,888. CERTAIN ARTICLES OF CLOTHING. L. H. LEWIS COMPANY, Dallas, Tex.
Filed March 2, 1921. Serial No. 144,288. PUBLISHED JULY 26, 1921.

148,889. CLEANING AND POLISHING LIQUIDS FOR VARNISHED OR ENAMELED SURFACES. LINCOLN CHEMICAL COMPANY, Minneapolis, Minn.
Filed May 12, 1921. Serial No. 147,671. PUBLISHED AUGUST 30, 1921.

148,890. TEETH-CROWNS. LINCOLN DENTAL MFG. CO., Philadelphia, Pa.
Filed October 27, 1920. Serial No. 138,862. PUBLISHED AUGUST 9, 1921.

148,891. LUBRICATING-OIL. EDWARD K. LINCOLN, New York, N. Y.
Filed March 16, 1921. Serial No. 144,817. PUBLISHED AUGUST 9, 1921.

148,892. CERTAIN NAMED WOVEN FABRICS IN THE PIECE. CHRISTIEN LONGLEE, Clifton, N. J., assignor to Monica Textile Corporation, a Corporation of New York.
Filed April 21, 1920. Serial No. 131,431. PUBLISHED AUGUST 9, 1921.

148,893. CANDY. LOOSE-WILES BISCUIT COMPANY, Kansas City, Mo.
Filed October 19, 1920. Serial No. 138,503. PUBLISHED JUNE 14, 1921.

148,894. CERTAIN VALVES, FLOOR-STANDS, PIPE-FITTINGS AND NOZZLES, AND COCKS AND PIPE-UNIONS. THE LUNKENHEIMER COMPANY, Cincinnati, Ohio.
Filed January 8, 1920. Serial No. 126,941. PUBLISHED AUGUST 2, 1921.

148,895. UPHOLSTERY AND DRAPERY TRIMMINGS—NAMELY, TASSELS, CORDS, EDGES, FRINGES, GALLOONS. EDWARD MAAG, New York, N. Y.
Filed February 7, 1921. Serial No. 143,286. PUBLISHED AUGUST 9, 1921.

148,896. CANDY. THE SOPHIE MAE CANDY CORPORATION, Atlanta, Ga.
Filed August 9, 1920. Serial No. 135,953. PUBLISHED AUGUST 9, 1921.

148,897. SILK PIECE GOODS. H. R. MALLINSON & CO., INC., New York, N. Y.
Filed March 9, 1921. Serial No. 144,534. PUBLISHED AUGUST 9, 1921.

148,898. CHOCOLATE MALTED MILK. MALT-A-MILK COMPANY OF AMERICA, Kansas City, Mo.
Filed March 11, 1921. Serial No. 144,628. PUBLISHED AUGUST 2, 1921.

148,899. A SALVE FOR TENDER, SORE, TORN, OR LACERATED BODY-TISSUES. RALPH L. MARSH, Columbus, Ohio.
Filed January 21, 1921. Serial No. 142,564. PUBLISHED JULY 26, 1921.

148,900. SCISSORS, SHEARS, POCKET-KNIVES, AND RAZORS. G. M. MAYER, New York, N. Y.
Filed December 17, 1920. Serial No. 141,238. PUBLISHED AUGUST 9, 1921.

148,901. CERTAIN NAMED STATIONERY. GREGORY MAYER & THOM CO., Detroit, Mich.
Filed March 8, 1921. Serial No. 144,485. PUBLISHED JULY 26, 1921.

148,902. PERFUMES, FACE-POWDERS, TALCUM POWDERS, TOILET WATER, SACHETS, SACHET-POWDERS, ROUGE, AND LIP-STICKS. MELBA MANUFACTURING COMPANY, Chicago, Ill.
Filed January 30, 1920. Serial No. 127,762. PUBLISHED AUGUST 2, 1921.

148,903. PUBLICATIONS ISSUED AT VARYING INTERVALS. HUGH E. MILLIKIN, Niagara Falls, N. Y.
Filed November 7, 1919. Serial No. 124,660. PUBLISHED AUGUST 9, 1921.

148,904. LICORICE CANDY. NATIONAL LICORICE COMPANY, Brooklyn, N. Y.
Filed June 22, 1920. Serial No. 134,028. PUBLISHED AUGUST 9, 1921.

148,905. A GENERAL TONIC. NEBBO LABORATORIES, INC., New York, N. Y.
Filed February 17, 1921. Serial No. 143,699. PUBLISHED JULY 26, 1921.

148,906. UNSWEETENED EVAPORATED MILK. NESTLÉ'S FOOD COMPANY, INC., New York, N. Y.
Filed February 4, 1921. Serial No. 143,183. PUBLISHED AUGUST 9, 1921.

148,907. HOSIERY AND UNDERWEAR OF KNITTED, NETTED, AND TEXTILE FABRICS FOR MEN, WOMEN, AND CHILDREN. NEVERSET HOSIERY MILLS, INC., New York, N. Y.
Filed October 11, 1920. Serial No. 138,183. PUBLISHED JULY 19, 1921.

148,908. PHONOGRAPHS AND PHONOGRAPH-RECORDS, RECORD-ALBUMS, MECHANICAL PHONOGRAPH MOTORS, REPRODUCERS, AND NEEDLES. THE NEW YORK RECORDING LABORATORIES, Port Washington, Wis.
Filed February 10, 1921. Serial No. 143,396. PUBLISHED JULY 26, 1921.

148,909. BOYS' SHIRTS AND BLOUSES. OPPENHEIM BROS. & BAUER, New York, N. Y.
Filed February 24, 1920. Serial No. 128,860. PUBLISHED MAY 17, 1921.

148,910. CERTAIN ALUMINUM COOKING UTENSILS. PACIFIC ALUMINUM COMPANY, Fresno, Calif.
Filed October 19, 1920. Serial No. 138,480. PUBLISHED AUGUST 2, 1921.

148,911. COTTON SERGE IN THE PIECE. PACIFIC MILLS, Lawrence and Boston, Mass.
Filed January 22, 1921. Serial No. 142,650. PUBLISHED AUGUST 9, 1921.

148,912. GUMMED TAPE. ROBERT G. PASSANO, New York, N. Y.
Filed March 7, 1921. Serial No. 144,418. PUBLISHED JUNE 28, 1921.

148,913. CERTAIN ARTICLES OF CLOTHING. F. A. PATRICK & Co., Duluth, Minn.
Filed January 5, 1921. Serial No. 141,875. PUBLISHED APRIL 26, 1921.

148,914. MEN'S, LADIES', AND CHILDREN'S KNITTED UNDERWEAR, HOSIERY, SWEATER AND JERSEY COATS. PENMANS LIMITED, Paris, Ontario, Canada.
Filed March 22, 1920. Serial No. 130,059. PUBLISHED AUGUST 2, 1921.

148,915. PIECE TEXTILE FABRICS MADE OF COTTON, COTTON AND WOOL, AND COTTON AND SILK. PENN TEXTILE COMPANY, New York, N. Y.
Filed September 20, 1920. Serial No. 137,386. PUBLISHED AUGUST 9, 1921.

148,916. MEDICINE FOR RHEUMATISM, GOUT, SCIATICA, LUMBAGO, AND OTHER BLOOD DISEASES. PLOUGH CHEMICAL COMPANY, Memphis, Tenn.
Filed January 19, 1921. Serial No. 142,452. PUBLISHED JULY 26, 1921.

148,917. DANCING DOLLS. WILLIAM H. PRICE, Jr., Akron, Ohio.
Filed March 11, 1921. Serial No. 144,634. PUBLISHED AUGUST 9, 1921.

148,918. PORTABLE ELECTRIC LAMPS. S. ROBERT SCHWARTZ & BRO., New York, N. Y.
Filed October 29, 1920. Serial No. 138,961. PUBLISHED JULY 26, 1921.

148,919. TOILET AND MEDICINAL PREPARATION USED AS A FACIAL AND BODY MASSAGE CREAM AND MUD AND AS A SKIN CURATIVE. SCOTT'S PREPARATIONS INC., New York, N. Y.
Filed December 29, 1920. Serial No. 141,554. PUBLISHED JULY 12, 1921.

148,920. LUBRICATING OILS AND GREASES. SHARS EQUIPMENT COMPANY, INC., Rome, N. Y.
Filed April 5, 1919. Serial No. 117,202. PUBLISHED JULY 12, 1921.

148,921. OUTER SUITS FOR MEN AND BOYS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed October 8, 1920. Serial No. 138,106. PUBLISHED JANUARY 25, 1921.

148,922. COFFEE. SEHON, STEVENSON AND COMPANY, Huntington, W. Va.
Filed May 28, 1919. Serial No. 118,861. PUBLISHED AUGUST 9, 1921.

148,923. ACETYLENE-LAMPS. SHANKLIN MANUFACTURING COMPANY, Springfield, Ill.
Filed February 26, 1921. Serial No. 144,105. PUBLISHED AUGUST 2, 1921.

148,924. PERFORATED-DISK-THROWING GAMES. THE SKY ROLL COMPANY, Fort Wayne, Ind.
Filed January 3, 1921. Serial No. 141,811. PUBLISHED AUGUST 2, 1921.

148,925. AN ELECTRIC SIGN. SMITH-HECHT CO., Indianapolis, Ind.
Filed February 5, 1921. Serial No. 143,224. PUBLISHED JULY 26, 1921.

148,926. SOLDERING PASTE IN THE NATURE OF A FLUX. THE SNAPPY SOLDERING PASTE CO. INC., Tonawanda, N. Y.
Filed March 23, 1921. Serial No. 145,132. PUBLISHED AUGUST 9, 1921.

148,927. STEAM, HOT-WATER, AND HOT-AIR HEATERS AND FURNACES USING GAS OR OIL. HARRY M. SNOW, Kalamazoo, Mich.
Filed March 2, 1921. Serial No. 144,253. PUBLISHED AUGUST 2, 1921.

148,928. CERTAIN NAMED JEWELRY AND FLAT AND HOLLOW WARE. GEORG JENSENS SØLVSMEDIE A/S., Copenhagen, Denmark.
Filed January 11, 1921. Serial No. 142,079. PUBLISHED JULY 26, 1921.

148,929. LUBRICATING MOTOR-OIL, CUP-GREASES, LUBRICATING GEAR COMPOUNDS. JESSE J. SOUTH, Memphis, Tenn.
Filed December 11, 1919. Serial No. 125,662. PUBLISHED AUGUST 9, 1921.

148,930. GOLF-CLUBS. A. G. SPALDING & BROS., New York, N. Y.
Filed November 20, 1920. Serial No. 139,915. PUBLISHED JULY 26, 1921.

148,931. SYRUPS, FLAVORS, AND FLAVORING EXTRACTS FOR SOFT DRINKS. HENRY J. STEIN, Boston, Mass.
Filed May 26, 1920. Serial No. 133,001. PUBLISHED JULY 26, 1921.

148,932. SNAP-FASTENERS FOR GARMENTS. CHAS. D. BROWN COMPANY, Chicago, Ill.
Filed July 9, 1919. Serial No. 120,886. PUBLISHED JULY 26, 1921.

148,933. UNSENSITIZED PHOTOGRAPHIC AND BLUE-PRINT PAPERS. STRATHMORE PAPER COMPANY, West Springfield, Mass.
Filed April 30, 1920. Serial No. 131,884. PUBLISHED JULY 26, 1921.

148,934. SOAP. SWIFT & COMPANY, Chicago, Ill.
Filed July 8, 1920. Serial No. 134,731. PUBLISHED AUGUST 9, 1921.

148,935. CLEANING COMPOUND FOR CARPETS, RUGS, SILKS, LACES, AND FABRICS AND CLEANABLE SURFACES IN GENERAL. ROY A. RAYMOND, Oakland, Calif.
Filed April 7, 1920. Serial No. 150,773. PUBLISHED JULY 26, 1921.

148,936. GOLF-BALLS. A. J. REACH COMPANY, Philadelphia, Pa.
Filed November 6, 1920. Serial No. 159,306. PUBLISHED JULY 26, 1921.

148,937. CERTAIN NAMED MALTLESS FRUIT BEVERAGES CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. OF ALCOHOL BY VOLUME, SOLD AS SOFT DRINKS. THE RED BALL COMPANY, Madrid, Iowa.
Filed June 30, 1920. Serial No. 134,430. PUBLISHED JULY 26, 1921.

148,938. COAL AND COKE. RED JACKET CONSOLIDATED COAL AND COKE COMPANY, Red Jacket, W. Va.
Filed June 15, 1921. Serial No. 149,203. PUBLISHED JULY 26, 1921.

148,939. A MEDICINE FOR PHTHISIS, NEURASTHENIA, CONSTIPATION, AND INTESTINAL INDIGESTION. REED & CARNRICK, Jersey City, N. J.
Filed March 11, 1921. Serial No. 144,640. PUBLISHED JULY 26, 1921.

148,940. NUTCRACKERS MADE OF METAL. REHM & TOURLEY, Lima, Ohio.
Filed March 22, 1921. Serial No. 145,061. PUBLISHED AUGUST 2, 1921.

148,941. WORK-SHIRTS. RELIANCE MANUFACTURING COMPANY, Chicago, Ill.
Filed September 7, 1920. Serial No. 136,916. PUBLISHED JANUARY 18, 1921.

148,942. COCOA SYRUP USED IN MAKING SOFT DRINKS. RICHARDSON CORPORATION, Rochester, N. Y.
Filed March 7, 1921. Serial No. 144,425. PUBLISHED JULY 26, 1921.

148,943. OVERCOATS, RAINCOATS, PANTS, AND VESTS. ROSENWALD & WEIL, INC., Chicago, Ill.
Filed February 26, 1921. Serial No. 144,103. PUBLISHED JULY 5, 1921.

148,944. MEDICAMENTAL TABLETS. HUGO ROTHSTEIN, St. Louis, Mo.
Filed March 21, 1921. Serial No. 146,042. PUBLISHED AUGUST 9, 1921.

148,945. HOSIERY FOR MEN, WOMEN, AND CHILDREN. MAX ROUNICK, Philadelphia, Pa.
Filed February 23, 1921. Serial No. 143,956. PUBLISHED JULY 26, 1921.

148,946. AN OINTMENT FOR USE IN TREATING THE SCALP. ARZIE N. TAYLOR, St. Joseph, Mo.
Filed March 23, 1921. Serial No. 146,126. PUBLISHED AUGUST 2, 1921.

148,947. PETROLEUM PRODUCTS—VIZ., LUBRICATING-OILS. THE TEXAS COMPANY, Houston, Tex., and New York, N. Y.
Filed April 12, 1920. Serial No. 131,050. PUBLISHED AUGUST 9, 1921.

148,948. CERTAIN NAMED PHARMACEUTICAL PREPARATIONS. HENRY THAYER & CO., INC., Cambridge, Mass.
Filed March 31, 1920. Serial No. 130,452. PUBLISHED MARCH 29, 1921.

148,949. GINGER-ALE, LEMON-SODA, CREAM-SODA, ROOT-BEER, BIRCH-BEER, GRAPE-SODA, RASPBERRY-SODA, AND SARSAPARILLA. TIFFIN PRODUCTS, INC., Long Island City, N. Y.
Filed October 30, 1919. Serial No. 124,968. PUBLISHED JUNE 1, 1920.

148,950. INTERNAL-COMBUSTION ENGINES. THE TORBERT MANUFACTURING CO., Port Washington, Wis.
Filed July 9, 1920. Serial No. 134,762. PUBLISHED AUGUST 2, 1921.

148,951. REMEDIES FOR DISEASES OF THE THROAT, NASAL ORGANS, AND LUNGS. ULRICI MEDICINE CO., New York, N. Y.
Filed January 20, 1921. Serial No. 142,545. PUBLISHED JULY 26, 1921.

148,952. A TONIC FOR ANEMIA AND NERVOUS DISEASES. ULRICI MEDICINE CO., New York, N. Y.
Filed January 20, 1921. Serial No. 142,546. PUBLISHED JULY 26, 1921.

148,953. LEATHER BELTING. UNITED BELT MANUFACTURING COMPANY, St. Louis, Mo.
Filed April 29, 1920. Serial No. 131,840. PUBLISHED AUGUST 2, 1921.

148,954. TOBACCO-WORKING MACHINERY. UNIVERSAL TOBACCO MACHINE CO., New York, N. Y.
Filed March 21, 1921. Serial No. 145,048. PUBLISHED AUGUST 2, 1921.

148,955. FISHING-TACKLE CASE. ALFRED F. VOY, Rockford, Ill.
Filed February 26, 1921. Serial No. 144,114. PUBLISHED AUGUST 2, 1921.

148,956. TOOL-STEEL. VULCAN CRUCIBLE STEEL CO., Aliquippa, Pa.
Filed December 20, 1919. Serial No. 126,665. PUBLISHED AUGUST 2, 1921.

148,957. WORSTED, WOOLEN, WORSTED AND COTTON, WOOLEN AND COTTON, AND WORSTED AND SILK PIECE GOODS. LOUIS WALTHER MANUFACTURING COMPANY, Philadelphia, Pa.
Filed December 2, 1920. Serial No. 140,534. PUBLISHED AUGUST 9, 1921.

148,958. LADIES' AND CHILDREN'S COTTON, WOOL, AND SILK HOSIERY. WALTON HOSIERY MILLS, Statesville, N. C.
Filed March 2, 1921. Serial No. 144,266. PUBLISHED JULY 5, 1921.

148,959. TOOTH-POWDER AND MOUTH-LOTION. PAUL M. WENNER, Philadelphia, Pa.
Filed August 12, 1919. Serial No. 121,612. PUBLISHED AUGUST 9, 1921.

148,960. HAIR-NETS. WESTERN BOBBIN MANUFACTURING COMPANY, Chicago, Ill.
Filed March 17, 1921. Serial No. 144,667. PUBLISHED AUGUST 9, 1921.

148,961. DOLLS. WERLIN, GOLDSTEIN & CO., Philadelphia, Pa.
Filed November 15, 1920. Serial No. 139,689. PUBLISHED JULY 26, 1921.

148,962. FOUR-WHEELED PLAY-WAGONS AND COASTERS FOR CHILDREN. H. C. WHITE COMPANY, North Bennington, Vt.
Filed January 22, 1921. Serial No. 142,681. PUBLISHED AUGUST 2, 1921.

148,963. ELECTRICAL HEATING AND RESISTOR ELEMENTS, PARTICULARLY ELECTRIC-SAD-IRON-HEATING UNITS. EDWIN L. WIEGAND, Pittsburgh, Pa.
Filed November 3, 1920. Serial No. 139,136. PUBLISHED JULY 26, 1921.

148,964. SUGAR-COATED CHEWING-GUM. WM. WRIGLEY JR. COMPANY, Chicago, Ill.
Filed March 5, 1921. Serial No. 144,362. PUBLISHED JUNE 14, 1921.

LABELS

REGISTERED NOVEMBER 29, 1921.

23,717.—*Title:* "BOTTLE DECORATION." (For Lime Cola.) LIME COLA COMPANY, Montgomery, Ala. Filed March 11, 1921.

23,718.—*Title:* "A CHILDS HANDKERCHIEF FOR EVERY DAY IN THE WEEK." (For Boxes for Handkerchiefs.) R. & R. HANDKERCHIEF CO., New York, N. Y. Filed March 30, 1921.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

U. S. Circuit Court of Appeals—Second Circuit.

MUNGER v. PERLMAN RIM CORPORATION.

Decided June 1, 1921.

[275 Fed. Rep., 21.]

1. PATENTS—638,588, FOR DEMOUNTABLE RIM FOR AUTOMOBILE-TIRES, HELD VALID AND INFRINGED.

The Munger patent, No. 638,588, for means of attaching automobile-tires to the rims, claim 4 *Held* valid and, given the broad construction to which it is entitled, as covering the principle of wedge action for fastening a demountable rim, infringed.

2. SAME—REASONABLE ROYALTY TO BE PAID BY INFRINGER DETERMINED.

Where it was determined that a patentee of an automobile part was entitled to damages for infringement, measured by a reasonable royalty, such royalty *Held* properly based on a percentage of the sale price of the infringing part in conformity with the custom of so fixing royalties for similar patented parts.

APPEAL from the District Court of the United States for the Southern District of New York.

Suit in equity by Louis De F. Munger against the Perlman Rim Corporation. Decree for complainant, and defendant appeals. Modified and affirmed.

See also (D. C.) 244 Fed., 730.

STATEMENT OF THE CASE.

Suit is upon Patent 638,588, for which application was filed April 25, 1899, patent issued December 5, 1899, to National Wheel & Traction Company as assignee of the inventor, who is the plaintiff herein.

The disclosure of the specification is for an improvement in "cushion-tires" for vehicle-wheels, the object being—

to provide an improved means of attachment of the tire to the wheel rim or felly, and specially designed for the driving wheels of automobiles.

It is admitted that the specification reveals two entirely distinct thoughts—one for securing the pneumatic tire to its base by vulcanization, the other for the means of attaching said tire base to the wheel proper.

The only claim in suit is No. 4, which deals with the last alleged inventive thought, and reads as follows:

In combination with a tapered felly, a tire, an annular rigid base to which said tire is secured, said base having a tapered under-surface and fitted on said felly, substantially as described.

The description referred to is of a—

felly slightly inclined or at an angle with the axle, the outer diameter of the wheel being the smaller to form a tapering fit for the tire base.

As shown, the tapered felly fits within a similarly tapered tire base, to the end that—

the larger circumference of the base can be easily slipped over the small outer circumference of the felly.

It is then stated that—

when in place these wedge-shaped surfaces form a close fit and also resist any tendency of further inward movement of the band on the felly due to strain on the tire in turning corners.

The tapered or frusto-conical tire-base when placed over the similarly-shaped felly, is not only locked in position but pressed into further wedge-like relation to the felly by bolts passing through said felly substantially at right angles to a spoke and with an extension or lug (integral or detachable) bearing upon the outer surface of the tire-base; the entire bolt and lug being tightened with a nut so as to press (if necessary) the tapered tire-base farther on the similarly-tapered felly.

Of this construction it is said that when the securing bolts are loosened it is only necessary in removing the tire base—

to back off the base slightly from the felly, when it can be easily slipped down off the inclined surface.

Under the assignment above referred to, National Wheel & Traction Corporation remained the owner of record of this and other patents of Munger's until September 5, 1916, when it assigned said patents to the plaintiff herein by a transfer duly recorded. It is upon this title that plaintiff brought suit.

In July, 1902, however, an assignment of the patent in suit (and others) was drawn and executed by the National, etc., Company to a New Jersey corporation known as "Munger Automobile Tire Company." This assignment was delivered to the attorney for the men who had agreed to finance the then newly-created Munger, etc., Company, and who caused the incorporation of that company.

This corporation commercially manufactured under Munger's tire patent; but the business lasted only a few months. It is evident that there were disagreements, if not quarrels, between this plaintiff and the men who were to furnish capital for the new corporation bearing plaintiff's name. Such disagreements quickly produced insolvency proceedings in the chancery of New Jersey (in October, 1902).

The receiver sold out the effects of the Munger, etc., Company, but never specifically sold the patent or patents covered by the assignment of July, 1902, until September, 1917, about a year after the beginning of this suit. Between 1902 and 1917 the assignment from National, etc., Company to Munger, etc., Company remained in the possession of the attorney for the financial backers of Munger, etc., Company, who (as found below) never fulfilled the promises of financial aid or working capital made

by them to National, etc., Company and Munger when the project was formed that took shape in the incorporation of Munger Automobile Tire Company, the concern which they themselves promptly put into insolvency.

In 1917 defendant herein in effect acquired by formal conveyances from the receiver and purchasers at the receiver's final sale of 1908 (who apparently had never seen or heard of the patent) whatever paper rights to the patent in suit were or had been of the Munger Automobile Tire Company of New Jersey, whereupon by leave of the district court the defence was presented that plaintiff had no title to the patent in suit.

The alleged infringing article is a now familiar form of demountable motor-rim, and may be described in language taken from the decision of Hunt, C. J., in *Perlman* v. *Standard Welding Co.* (D. C., 231 Fed., 453; affirmed 231 Fed., 734; 146 C. C. A., 18.)

Defendant's demountable rim is of the clincher type, and is in effect provided with a block, or stop, so that it will not creep. Each of the locking devices consists of a bolt and a metal wedge. The wedges go between the demountable rim and the fixed rim (or felly), and exert an inclined pressure upon the demountable rim radially away from the wheel-body, spacing it from the fixed rim, and also press it laterally against the flange at the other end of the fixed rim; the wedges used by defendant are propelled by means of threaded bolts. (D. C., 231 Fed., at p. 455.)

The court below found that defendant's alleged infringing article was manufactured under a patent owned by it, No. 1,052,270, being the same patent which was considered and interpreted in this circuit in the cases above referred to. It was further held that the patent in suit should not be "restricted to the precise relation of the wedge elements shown" therein, but should be so construed as to "include within its scope the obvious equivalents." It then declared that defendant's structure "performs its function in practically the same way as the patented" one, and therefore decreed infringement.

Pending trial, however, plaintiff's patent had expired, whereupon (no injunction issuing) it was decreed that plaintiff

> recover from * * * defendant, a reasonable royalty on all demountable rims manufactured, sold, or otherwise disposed of by said * * * defendant in this cause in infringement of (said claim 4 of the patent in suit), as damages for such infringement.

The ascertainment of these damages was sent to a master, who under the form of decree quoted from had no power to do more than ascertain damages by ascertaining the proper royalty upon Munger's invention. No exception has been taken to this limitation upon the master's power. That official reported: (1) That defendant corporation was liable only for such infringements as it had committed from the date of its incorporation April 6, 1916, to the date of the expiration of the patent in suit—*i. e.*, December 5, 1916—(2) that during that time defendant had either manufactured or sold, or both, 348,568 infringing rims or tire-bases; (3) that a reasonable rate of royalty for the use of the invention of the claim in suit is $.2006 per rim; (4) wherefore, after making certain deductions, plaintiff should recover as the reasonable royalty aforesaid $73,070.06—for which amount, with interest from the date of the master's report and costs, final decree was entered, and defendant took this appeal.

Mr. Melville Church and *Mr. John Thomas Smith* for the defendant-appellant.

Mr. William B. Gresley and *Mr. Ambrose L. O'Shea* for the plaintiff-appellee.

Before WARD, ROGERS, and HOUGH, Circuit Judges.

HOUGH, Cir. J., (after stating the facts as above:)

This appeal presents three questions: (1) Has the plaintiff title to the patent in suit? (2) Is claim 4 valid and infringed? (3) Have the damages been properly adjusted?

The question of title depends solely on whether the delivery of the written assignment of the patent in suit to the attorney for the promoters of Munger Automobile Tire Company was absolute or in escrow. Plaintiff contended that it was merely deposited with the attorney in question until such time as his clients produced the money they had promised to provide for the new corporation. It is plain that they never provided the money.

It is not doubted that an escrow is a written instrument, which by its terms imports a legal obligation, and which is deposited by the grantor with a third party to be kept by the depository until the performance of a condition or the happening of a certain event, and then to be delivered over to the grantee (10 R. C. L., 621.)

Undoubtedly there was much to be said in favor of interpreting a deposit with the promoters' attorney as a delivery to the promoters, yet it was and remained wholly a question of fact whether there ever was a delivery or merely a deposit in escrow. The trial judge considered this question of fact on a record containing the testimony (so far as we can see) of every living person who could have had knowledge in the premises, and after such hearing decided that there was a deposit in escrow, and that the condition upon which delivery depended had never been fulfilled. We are not disposed to disturb these findings of fact, and it is not denied that from them flowed the conclusion of law that title to the patent never passed out of the National, etc., Company, as whose assignee the plaintiff brings this suit.

(1) The trial court found as a fact that defendant's rims were made under the Perlman patent so fully considered in this circuit in *Perlman* v. *Standard, etc., supra.* This statement is true in a strictly legal sense, but it is also true that what this defendant has made and is making is in substance or essence the device which was found to infringe in *Perlman* v. *Standard Co., supra.* This means that the scope accorded Perlman Patent 1,052,270 was so broad that it covered a style of demountable rim very much better for commercial purposes than anything disclosed by Perlman's specification.

Perlman's disclosed means consist essentially in a plurality of threaded bolts passing through the felly at appropriate intervals, having frusto-conical heads, which can be "set up" by nuts, into apertures in the rim or tire-base, which base fitted loosely over the felly. By the wedge action of these frusto-conical bolt-heads the tire-base is to be held firmly in position. The wedge action held to be a mechanical equivalent is set forth in (D. C.) 231 Fed. at page 455, and is mechanically identical

with what is now said to infringe Munger's patent. Throughout the Perlman litigation, *supra*, the patent now in suit was not cited or referred to. It is a necessary inference from our previous decision, and is abundantly proven here, that wedge action for the purpose of tightly fastening a demountable rim was broadly new when Munger filed his application.

The references now introduced were disposed of by our previous decisions; they are assuredly no better as against Munger than they were against Perlman. The difference between Perlman's disclosed device and that which was held to infringe in the case cited was in the method of applying wedge action, but the devices of both parties applied wedges at certain predetermined points on the periphery of the felly, whereas Munger makes of the whole of his tapered rim one wedge when it is slipped over and pressed upon the similarly-tapered felly. If, as we have held, wedge action in this art was broadly new, it makes no difference that instead of a half a dozen wedges Munger has one large wedge.

It is objected that Munger's device was not operative, but the evidence proves that it was used and that it did operate in accordance with the law of its being as described and claimed. That it was not a commercial success is true, as the story of sales shows. But neither was Perlman's disclosed means successful, yet his concept of wedge action seemed so new and meritorious, as to entitle him to dominate, and (in the person of the defendant corporation bearing his name) ultimately appropriate, the superior application of wedge action practised by the defendants in the original Perlman litigation, *supra*.

The Munger patent is entitled to the same broad scope, because it is a still earlier concept of wedge action, operative and useful even though not commercially successful. As we have held that wedges driven in between felly and rim must pay tribute to one who described only wedge-bolts protruding through the felly (the claim being sufficiently broad), so must the same successful device pay tribute to Munger's earlier wedge-action device.

(2) The interlocutory decree (as interpreted by the opinion below) substantially held that this plaintiff was not entitled to profits; and that since there was not and never had been any established license rate under Munger's patent, and there was no adequate basis for an assessment of damages on lost sales, the master was told to assess damages by ascertaining—

> what would have been a reasonable royalty, considering the nature of the invention, its utility and advantages, and the extent of the use involved. (*Dowagiac, etc., Co.* v. *Minnesota, etc., Co.*, 235 U. S., 648; 35 Sup. Ct., 221, 224; 59 L. Ed., 398.)

No assignment of error challenges this limitation on plaintiff's recovery, and we express no opinion on this point. The only question before us is whether, assuming plaintiff to be entitled to any damages, the ascertainment and computation thereof was correct.

Plaintiff proved that defendant under the Perlman patent had an established or usual royalty charge; that there were many patents covering parts of or devices used in motor vehicles, and that for them rates of royalty had been and were being charged, based upon a percentage of the sale prices of the part or devices containing said patented invention. Then a witness, apparently disinterested, a pioneer in motor exploitation and himself an inventor and manufacturer, gave it as his opinion that from 10 per cent. to 15 per cent. of the sale price of infringing rims would be a reasonable royalty for the use of Munger's invention. There was substantially no evidence in contradiction of the foregoing. Under the *Dowagiac Case* we think this evidence competent, and if believed sufficient whereon to ground an award of damages, if supplemented (as it was) by proof of sales and manufacture.

This expert's royalty rate the master "accepted, for the purpose of apportioning defendant's profits," choosing, however, "15 per cent. rather than the minimum 10 per cent. or any figure between the two."

The sentence regarding "apportioning defendant's profits" is the master's method of stating the thought (naturally arising on this record) that a reasonable royalty under the Munger patent, a commercially unsuccessful invention, should be less than the price justly chargeable for using the detachable wedge of defendant's actual system. It is but another way of stating the thought of plaintiff's expert, when he suggested a percentage royalty, for his highest figure amounts to much less than the royalty defendant has been charging other manufacturers.

The case comes down to this: Having regard to the history of this invention, and the obviously more desirable application of the wedge principle used by defendant, was the master justified in using the higher rate suggested by plaintiff's expert rather than the lower? The matter is one not made plainer by discussion. After consideration of the record we are of opinion that the master should have taken the 10 per cent. estimate rather than the 15 per cent. one. It is therefore ordered that the decree appealed from be modified by reducing the amount of plaintiff's recovery to $48,713.39, and that, as so modified, the decree appealed from be affirmed, without costs in this court.

Disclaimer.

1,371,364.—*Sylvester Leo Gookin*, Boston, Mass. FASTENER-SETTING MACHINE. Patent dated March 15, 1921. Disclaimer filed November 21, 1921, by the assignee, *United Shoe Machinery Corporation*.

Presents this disclaimer—

"To said claims 4 and 12 of said patent which are in the following words, to wit:

"4. In a machine for setting fasteners, two coöperative setting tools constructed and arranged to set a barrel member and a reinforcing member of a compound fastener in telescopic relation, and means arranged to supply the barrel member and the reinforcing member to said tools respectively, the tool for the reinforcing member having an annular seat for the latter and having an au-

ular clinching portion the maximum diameter of which is less than the minimum diameter of said seat, said clinching portion being arranged to clinch the barrel member against the reinforcing member.

"12. A machine for setting cooperative tubular fasteners in telescopic relation, comprising cooperative setting tools one of which is movable toward and from the other, means for supplying telescopic fasteners to said tools respectively, means associated with one of said tools to support the smaller fastener frictionally by engagement with its internal surface, and means for imparting relative movement to said tools to insert the smaller fastener through the other and to clinch the smaller fastener against the other."

Adverse Decisions in Interference.

PATENT No. 1,363,910.

On October 25, 1921, a decision was rendered that Lewis H. Johnson was not the first inventor of the subject-matter covered by claim 26 of his Patent No. 1,363,910, subject, "Telephone systems," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,346,206.

On October 26, 1921, a decision was rendered that Henry T. Dubet was not the first inventor of the subject-matter covered by the claim of his Patent No. 1,346,206, granted, "Pliers," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,329,286.

On October 26, 1921, a decision was rendered that John C. Hubaret was not the first inventor of the subject-matter covered by claims 5, 6, 7, 8, 11, and 12 of his Patent No. 1,329,286, subject, "Fireproof composition," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,314,856.

On October 28, 1921, a decision was rendered that Jesse Coffman was not the first inventor of the subject-matter covered by claims 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10 of his Patent No. 1,314,856, subject, "Process of extracting sulfur from ore," and no appeal having been taken within the time allowed such decision has become final.

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ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 1st DAY OF NOVEMBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

A-G-Gesellschaft, Blankenese, Prussia, Assgr. (See Boedtker, Gustav A., assignor.)

Aalborg, Christian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-breaker. No. 1,395,897; Nov. 1.

Abbott, William Jr., Wilton, N. H. Waterproofing composition and method of making same. No. 1,395,965; Nov. 1.

Abo, Sadakar, Richland Park, assignor, by mesne assignments, to Abo Motor Clutch Co., Richland Park, Mich., a corporation of Michigan. Friction-clutch for motor vehicles. No. 1,395,341; Nov. 1.

Aerman, Allen, Detroit, Mich. Method and apparatus for generating ozone and treating porous material thereby. No. 1,395,287; Nov. 1.

Aakres, Albert, Pittsburgh, Pa. Gas-saving attachment for burners. No. 1,395,747; Nov. 1.

Adams, Frank, Detroit, Mich. Printing apparatus. No. 1,395,223; Nov. 1.

Addressograph-Multigraph Co., Chicago, Ill. Coloring fabric. No. 1,395,276; Nov. 1.

Aeolian Company, The. (See Hutchison, J. H., and Coffee, assignors.)

Aeromotor Company. (See Schoba, Daniel E., assignor.)

Air Reduction Company. (See Walker, George L., assignor.)

Akey, John B., Pittsburgh, Pa. Game. No. 1,395,545; Nov. 1.

Alfa-Maize Manufacturing Company. (See Sharp, Lee C., assignor.)

Algrim, Charles, Chicago, Ill. Self-clamp for vise-jaws. No. 1,395,659; Nov. 1.

All-Steel-Equip Company. (See Erickson, A. F., and Shiek, assignors.)

Allatt, Thomas, Westfield, N. J., assignor to International Cork Company, Brooklyn, N. Y. Cork-feeding device. No. 1,395,248; Nov. 1.

Allen, Eric, Bethel, Conn. Child's vehicle. No. 1,395,660; Nov. 1.

Allen, S. L., & Co. (See Richie, David E., assignor.)

Allinson, William, Des Moines, Iowa. Apparatus for purifying gasolene. No. 1,395,694; Nov. 1.

Alphonse, Joseph, Chicago, Ill. Dumper. No. 1,395,784; Nov. 1.

Ambertes, Richard, London, England. Electric-circuit controller. No. 1,395,886; Nov. 1.

American Arch Company. (See Willett, Alfred H., assignor.)

American Chain Company. (See Smith, William B., assignor.)

American Cotton Oil Company, The. (See Goldsay, Truman M., assignor.)

American District Telegraph Company. (See Hopkins, Richard M., assignor.)

American Electric Tool Company. (See Paulero, Louis, assignor.)

American Laundry Machinery Company, The. (See Bralay, C. L., and Prestwich, assignors.)

American Optical Company. (See Tillyer, Edgar D., assignor.)

American Telephone and Telegraph Company. (See Martin, William E., assignor.)

Andersen, Christen, Harup, Denmark. Combined wrench and pipe-tongs. No. 1,395,755; Nov. 1.

Anderson, Carl E., Maywood, Ill. Air-pump. No. 1,395,542; Nov. 1.

Anderson, Carl E., Maywood, Ill. Gas-pump for refrigerating systems. No. 1,395,547; Nov. 1.

Anderson, Fred H., Paterson, N. J. Game. No. 1,395,786; Nov. 1.

Anderson, Merritt H., Antioch, Calif. Aeroplane propulsion means. No. 1,395,695; Nov. 1.

Anderson, Norman, Duluth, Minn. Cylinder-reamer. No. 1,395,945; Nov. 1.

Andre, Gustaf E., Chicago, Ill. Bearing. No. 1,395,244; Nov. 1.

Angell, Otis R., Haverhill, Mass., assignor to Hamel Shoe Machinery Company. Edge setting and burnishing machine. No. 1,395,787; Nov. 1.

Angier, Edward H., Framingham, Mass. Package. No. 1,395,661; Nov. 1.

Anshelm, Edward H., Cambridge, Mass., assignor to D. I. Bayes, Pawtucket, R. I. Cigar-lighter for steering-wheels. No. 1,395,548; Nov. 1.

Anthony, Stanley, Boston, Mass. Terminal for wires of electric circuits. No. 1,395,788; Nov. 1.

Anthes, Max. (See Schmidt, Ludwig, assignor.)

Argus-Motoren-Gesellschaft m. b. H. (See Zoller, Arnold, assignor.)

Arrowsmith, Frederick H., Shrewsbury, assignor of one-half to D. Hennigan, Worcester, Mass. Envelop-machine. No. 1,395,880; Nov. 1.

Atlas, Abraham, Philadelphia, Pa. Reproducer. No. 1,395,967; Nov. 1.

Atlas Powder Company. (See Strane, Archibald J., assignor.)

Atna, William E. and W. J., assignors of one-third to L. J. Bryant, Wilburn, Ky. Agricultural implement. No. 1,395,329; Nov. 1.

Aton, Willie J. (See Aton, William E. and W. J.)

Attaheany, Guenzaner, New York, N. Y. Method and apparatus for making concentrated blotter. No. 1,395,822; Nov. 1.

Auberg, Emanuel, Brooklyn, N. Y. Warning-signal. No. 1,395,246; Nov. 1.

Auto-Grahamm Corporation. (See Thompson, John T., assignor.)

Ayotte, Joseph R., Chicago, Ill. Hand-tool. No. 1,395,328; Nov. 1.

Ayotte, Joseph R., Chicago, Ill. Hand-tool. No. 1,395,329; Nov. 1.

Babbitt, Isaac N., Fairhaven, Mass. Sprocket-chain guide. No. 1,395,330; Nov. 1.

Baer, Carl J., Riverside, Ill. Boat. No. 1,395,882; Nov. 1.

Baird, Cora E., Long Beach, Calif. Armchair and bed. No. 1,395,465; Nov. 1.

Baker, Hartley O., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Valve-gear. No. 1,395,331; Nov. 1.

Baker, Linnaeus E., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Self-measuring liquid-dispensing apparatus. No. 1,395,696; Nov. 1.

Baker, Linnaeus E., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Locking control for power-operated measuring and dispensing apparatus. No. 1,395,697; Nov. 1.

Baker, Linnaeus E., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Automatic check-back for elevated liquid-containers. No. 1,395,800; Nov. 1.

Baker, Linnaeus E., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Settling-tank. No. 1,395,801; Nov. 1.

Baker Steam Motor Car and Manufacturing Co., The. (See Baker, Hasting G., assignor.)

Bannell, Raymond H., Waterbury, Conn. Ball-forming machine. No. 1,395,780; Nov. 1.

Barbet, Emile A., Paris, France. Regulating means for gas-operating apparatus. No. 1,395,468; Nov. 1.

Barducci, Pilade, Naples, Italy. Arrangement for changing and heating air in rooms and chambers of any kind. No. 1,395,933; Nov. 1.

Barnes, Fred A., and R. G. Hurlbut, Indianapolis, Ind. Stud-driver. No. 1,395,989; Nov. 1.

Barr, Wilson, Trenton, Ontario, Canada. Accounting-device. No. 1,395,892; Nov. 1.

Barrett Company, The. (See Miller, Stuart P., assignor.)

Bassett, Harry P., Cynthiana, Ky., and S. S. Sadtler, Springfield township, Montgomery county, Pa. Recovering volatile solvents. No. 1,395,940; Nov. 1.

Bastian Company, The. (See Diez, Daniel E., assignor.)

Bauchet, Henry, Sens, France. Ground-gripping device for tractors. No. 1,395,542; Nov. 1.

Bauer, John, Detroit, Mich. Aircraft. No. 1,395,660; Nov. 1.

Baum, Chester E., and R. A. Peacock, Delaware City, Del. Combined rocking and revolving chair. No. 1,395,939; Nov. 1.

Bayerdorffer, Max, Huguenot Park, N. Y. Key-examiner. No. 1,395,332; Nov. 1.

Bayerdorffer, Max, Huguenot Park, N. Y. Spiral tag-band. No. 1,395,333; Nov. 1.

Bayuk, Meyer, Philadelphia, Pa. Cigar-package. No. 1,395,467; Nov. 1.

Beasley, Arthur J., assignor to The National Malleable Castings Company, Cleveland, Ohio. Coupling-operating mechanism. No. 1,395,250; Nov. 1.

Beasley, Arthur J., assignor to The National Malleable Castings Company, Cleveland, Ohio. Coupling-operating mechanism. No. 1,395,251; Nov. 1.

Beal, Michael L., Pasadena, Calif. Sandpapering-machine. No. 1,395,468; Nov. 1.

Beattie, Frank, Detroit, Mich. Vending-machine. No. 1,395,941; Nov. 1.

Beck, Charles W., Detroit, Mich., assignor to The Beck-Frost Corporation. Steering-wheel and forming same. No. 1,395,899; Nov. 1.

Beck, Edward E., assignor to Crown Die and Tool Company, Chicago, Ill. Thread-cutting dies. No. 1,395,252; Nov. 1.

Beck-Frost Corporation, The. (See Beck, Charles W., assignor.)
Beckwith, Charles A., Shullsburg, Wis. Fence-staple. No. 1,395,894; Nov. 1.
Behrman, Marcus E., Terre Haute, Ind. Hair-cutting implement. No. 1,395,884; Nov. 1.
Belding, George A., Billings, Mont. Joint for metal culverts or the like. No. 1,395,263; Nov. 1.
Belding, Samuel C., Mason City, Iowa. Trap-seat. No. 1,395,942; Nov. 1.
Bellan, Eugène, and H. L. Laîné, Paris, France. Device for securing railway-rails to their sleepers. No. 1,395,663; Nov. 1.
Bellamy, Alexander M., U. S. Army. Pile-driving machine. No. 1,395,905; Nov. 1.
Bellows, Sheffield D., Kelly Corners, N. Y. Chain-fastener. No. 1,395,906; Nov. 1.
Benbow, James D., assignor to Western Wheeled Scraper Company, Aurora, Ill. Three-way valve. No. 1,395,460; Nov. 1.
Benson, Hall, West Hartford, assignor to The Carling Tool & Machine Company, Hartford, Conn. Work-support. No. 1,396,664; Nov. 1.
Berkowitz, Isidor, New York, N. Y. Feed-table for printing-presses. No. 1,395,907; Nov. 1.
Berlin Mills Company. (See Moore, Hugh K., assignor.)
Bernard, Theis F., assignor to F. M. Shoalit, Detroit, Mich. Compound grinding-head for grinding two cylindrical machine parts at the same time. No. 1,396,790; Nov. 1.
Berner, Jesse S., *et al.* (See Downey, Richard F., assignor.)
Bertolini, Giuseppe. (See Merli, C., and Bertolini.)
Bianchi, Carlo E., Montpelier, Vt. Intermittent-motion mechanism. No. 1,396,002; Nov. 1.
Biddle, Frank E., Elkhart, Ind. Filing-machine. No. 1,395,331; Nov. 1.
Biggerstaff, Charles C., Rowesville, S. C. Seed-cotton cleaner. No. 1,396,382; Nov. 1.
Billingsley, Percy L., Orlando, Fla. Flexible operating mechanism. No. 1,396,626; Nov. 1.
Binkley, John T., Chicago, Ill. Fastening device. No. 1,395,627; Nov. 1.
Bishop, James A., Chicago, Ill. Condenser. No. 1,395,898; Nov. 1.
Black, Archibald, Brooklyn, assignor, by mesne assignments, of one-half to L-W-F Engineering Company, Inc., College Point, Long Island, N. Y. Aeroplane control system. No. 1,395,254; Nov. 1.
Black, Charles F., assignor to The Republic Tool Products Company, Dayton, Ohio. Wheeled toy. No. 1,395,470; Nov. 1.
Blackmore, Charles C., Dayton, Ohio. Shock-absorber. No. 1,395,471; Nov. 1.
Blomberg, Klas G., Södertälje, and B. A. Pettersson, Lidköping, Sweden. Machine for producing spring dress-fasteners. No. 1,395,899; Nov. 1.
Blomberg, Klas G., Södertälje, and B. A. Pettersson, Lidköping, Sweden. Machine for producing spring dress-fasteners. No. 1,395,900; Nov. 1.
Blundell, Mary E., *et al.* (See Blundell, William C., assignor.)
Blundell, William C., assignor of one-half to M. E. Blundell and one-half to O. W. Smith, Los Angeles, Calif. Low-water signal for steam-boilers. No. 1,395,550; Nov. 1.
Bogart, Peter B., Milwaukee, Wis. Car-ventilating system. No. 1,395,383; Nov. 1.
Bolas, Harold, Clifton, Bristol, assignor to G. G. Parnall, Bristol, England. Means for folding the planes of aircraft. No. 1,396,622; Nov. 1.
Bollier, Walter, and I. Diemand, Zurich, Switzerland. Time-recording apparatus. No. 1,395,665; Nov. 1.
Booth, Homer A., Pittsfield, Mass. Valve-lifter. No. 1,395,901; Nov. 1.
Bosshard, Gustav A., assignor to Firm A.-G. Seerlet, Bleicherei, Filiale Arbon, Arbon, Switzerland. Improving cotton fabrics. No. 1,395,472; Nov. 1.
Bourquin, Paul P., Philadelphia, Pa. Multiple-impression typewriter. No. 1,395,594; Nov. 1.
Bowman, Robert L., Knoxville, Tenn. Conductor for mine explosives. No. 1,395,791; Nov. 1.
Bowman, Robert L., Knoxville, Tenn. Conductor for mine explosives. No. 1,395,792; Nov. 1.
Boyce, Theodore, *et al.* (See Corum, Adolphus H., assignor.)
Boyd, Andrew C. (See Sawyer, W. H., and Boyd.)
Boyd, Jesse B. (See Breakfield, Charles C., assignor.)
Boyle, John, & Company. (See Markert, Frederick E., assignor.)
Bosso, Pedro, Buenos Aires, Argentina. Machine for cutting cardboard strips for making matches. No. 1,395,473; Nov. 1.
Bradshaw, Arthur F., Bieber, Calif. Check-protecting method. No. 1,395,948; Nov. 1.
Bragg, Gilbert A., Thomson, Nev., assignor to Metals Research Company. Hydrometallurgy of copper. No. 1,396,755; Nov. 1.
Brake, Archibald and R. K., Toronto, Ontario, Canada. Headlight for vehicles. No. 1,395,599; Nov. 1.
Brake, Richard K. (See Brake, Archibald and R. K.)
Braley, Charles L., and S. Prestwich, assignors to The American Laundry Machinery Company, Cincinnati, Ohio. Safety attachment for pressing-machines. No. 1,395,604; Nov. 1.
Brand, Charles P., Wheeling, W. Va. Snap-movement valve mechanism. No. 1,395,551; Nov. 1.
Bray Metal Hardening Co. (See Bray, Nelson H., assignor.)
Bray, Nelson H., San Francisco, Calif., assignor to Bray Metal Hardening Co. Treatment of rails, switch-points, frogs, and crossings. No. 1,395,476; Nov. 1.
Breakfield, Charles C., assignor of one-half to J. B. Boyd, Allensville, Ky. Deadlock for end drop-gates. No. 1,395,639; Nov. 1.
Briant Specialty Company. (See Granata, Herbert C., assignor.)
Bridges, William C., North Easton, Mass. Velocipede. No. 1,395,883; Nov. 1.
Bried, Julius A., Oakland, Calif. Rolling screen. No. 1,396,475; Nov. 1.
Briggs, Robert. (See McReynolds, W. A., and Briggs.)
Bristol Aeroplane Company Limited, The. (See Fedden, A. H. R., and Butler, assignors.)
Britton, Andrew C., Westmond, assignor of one-half to P. A. Nelson, Sandpoint, Idaho. Cow-tail holder. No. 1,395,709; Nov. 1.
Brock and Company. (See Ginder, Wallace G., assignor.)
Brodowski, John F., Milwaukee, Wis. Sash-hanger. No. 1,396,594; Nov. 1.
Brophy, Daniel J., Montreal, Quebec, Canada. Clamping device for molds. No. 1,395,553; Nov. 1.
Broschart, Jacob L., Trenton, Mo. Pencil attachment. No. 1,396,793; Nov. 1.
Brown, Ray M., Yonkers, assignor to H. L. Ingersoll, White Plains, N. Y. Booster-engine for steam-locomotives. No. 1,395,478; Nov. 1.
Brown, William W., Medford, Oreg. Lid-holder for cooking utensils and receptacles. No. 1,395,554; Nov. 1.
Brose, Stanley A., *et al.* (See Scholts, John, assignor.)
Brubaker, William A., Akron, Ohio. Tire-vulcanizing mold. No. 1,395,944; Nov. 1.
Bruegger, Zeno A., Boise, Idaho. Engine-piston. No. 1,395,794; Nov. 1.
Bryant, L. J. (See Aton, William E. and W. J., assignors.)
Büchler, G. J. (See Garver, Uriah D., assignor.)
Buchner, Max, Heidelberg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Washing, cleansing, and lubricating medium. No. 1,395,902; Nov. 1.
Buckeye Traction Ditcher Company, The. (See George, Charles L., assignor.)
Buckwalter, Tracy V., assignor to Timken Roller Bearing Company, Canton, Ohio. Bearing-cage. No. 1,395,385; Nov. 1.
Budd, Edward G., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Latch mechanism for automobile-doors. No. 1,395,477; Nov. 1.
Budd, Edward G., Manufacturing Company. (See Budd, Edward G., assignor.)
Budd, Lester, Philadelphia, Pa. Operating device for shaking-grates. No. 1,395,478; Nov. 1.
Buhl, Olaf, Newell, Iowa. Firearm. No. 1,395,903; Nov. 1.
Bumgardner, Adam G., Clarksburg, W. Va. Rack. No. 1,395,980; Nov. 1.
Bunker, William G., Augusta, Me. Combined toilet and lavatory. No. 1,395,479; Nov. 1.
Burditt, William F., Jr., Lyons Farms, N. J. Press. No. 1,395,286; Nov. 1.
Burger, Leopold F., Riverside, Ill., assignor, by mesne assignments, to International Harvester Company. Carbureter. No. 1,396,587; Nov. 1.
Burke, Alice S., New York, N. Y. Alinement device for manifold-sheets. No. 1,396,255; Nov. 1.
Burroughs Adding Machine Company. (See Gascon, Malcolm F., assignor.)
Burton, Charles S., Oak Park, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Mileage-period-signaling device. No. 1,396,256; Nov. 1.
Butchart, William A., Denver, Colo. Agitator. No. 1,395,480; Nov. 1.
Butler, Leonard F. G. (See Fedden, A. H. R., and Butler.)
Byer, John D., Butte, Mont. Match and toothpick dispenser. No. 1,395,288; Nov. 1.
Cain, Thomas, Topeka, Kans. Dust-guard. No. 1,395,701; Nov. 1.
Caldwell Silo Co. (See Caldwell, Warren A., assignor.) (Reissue.)
Caldwell, Warren A., assignor to Caldwell Silo Company Inc., Oskaloosa, Iowa. Ventilated grain-crib stave. (Reissue.) No. 15,217; Nov. 1.
Callahan, Francis E. (See Stoddard, H. A., and Callahan.)
Carling Tool & Machine Company, The. (See Benson, Emil, assignor.)
Carlson, Alvin E., Nevis, Minn. Dispensing device. No. 1,395,795; Nov. 1.
Carmichael, James J., Ridgway, Colo. Automatic cylinder-cock. No. 1,395,796; Nov. 1.
Carnot Development Corporation. (See Hayes, Albert, assignor.)
Castelli, Vitale B. (See Frattola, E., Castelli, and Regnoni.)
Catello, Patrick J., assignor of one-half to M. F. Schneible, Roma, N. Y. Clothes-drying cabinet. No. 1,395,797; Nov. 1.
Catlett, William C., Pritchett, Tex. Planter. No. 1,395,798; Nov. 1.
Chambers, Clayton E., Asheville, N. C. Loom attachment. No. 1,396,994; Nov. 1.
Chase Companies, The. (See Grigsmer, William E., assignor.)
Chase, Herschel E., assignor to United States Hoffman Machinery Company, Syracuse, N. Y. Garment-press. No. 1,396,987; Nov. 1.
Chemical Foundation, Inc., The. (See Bechner, Max, assignor.)
Chemical Foundation, Inc., The. (See Kohner, Alfred, assignor.)
Chemical Foundation, Inc., The. (See Kuppers, Karl, assignor.)
Chemical Foundation, The. (See Römer, Adolf, assignor.)
Chemical Foundation, Inc., The. (See Türk, Gustav, assignor.)
Cheate, William E., Hamilton, Mass., assignor, by mesne assignments, to Federal Finance Corporation. Work and material holder for stamping-machines. No. 1,395,558; Nov. 1.
Chubb, Lewis W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical measuring instrument. No. 1,396,535; Nov. 1.
Cincinnati Frog & Switch Company. (See Partington, Charles, assignor.)
Clark, Charles H., Easton, Me. Caster-wheel. No. 1,395,357; Nov. 1.
Clark, Harry L., Norwood, and J. H. Sower, Cincinnati, assignors, by mesne assignments, to The Southern Ohio Tin Can Company, Winton Place, Ohio. Paraffining-machine. No. 1,396,256; Nov. 1.
Clarke, Hans T., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose ether composition. No. 1,396,905; Nov. 1.
Claude, Georges, assignor to L'Air Liquide Societe Anonyme Pour l'Etude et l'Exploitation Des Procedes Georges Claude, Paris, France. Extraction of hydrogen from gaseous mixtures. No. 1,395,930; Nov. 1.
Claus, Emil L., Milwaukee, Wis. Combined burner structure for gas-stoves. No. 1,396,799; Nov. 1.
Clay, Anson E., deceased, Newton, Iowa; A. Perry, administratrix. Window-lock. No. 1,396,556; Nov. 1.
Clayton, Samuel B., Greensboro, N. C. Automobile-lock. No. 1,396,906; Nov. 1.
Clement, Lewis M., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Oscillation-generating system. No. 1,395,390; Nov. 1.
Clements, Arthur E., South Jacksonville, Fla. Combined jack and puller. No. 1,395,945; Nov. 1.
Clemons, Charles H., Weldon, Ill. Wrist-pin. No. 1,395,946; Nov. 1.
Cleveland Chain & Mfg. Company, The. (See Hughes, Hugh T., assignor.)
Cline, Robert W., assignor of one-half to F. S. Moore, San Jose, Calif. Artichoke-trimmer. No. 1,395,481; Nov. 1.
Cluett, Peabody & Co. (See Connolly, Charles M., assignor.)
Coble, Ernest H., Jackson, Mich. Foot-rest. No. 1,396,000; Nov. 1.
Cochran, Edwin W., Catawba, N. C. Wrench. No. 1,395,800; Nov. 1.
Coley, Lemuel B. (See Sanford, Thomas H., assignor.)
Collyer, Louis G. (See Dickinson, J. H., and Collyer.)
Conners, Edward R., Covington, Ky., assignor to The Precision Truing Machine and Tool Company, Cincinnati, Ohio. Device for truing and dressing grinding-wheels. No. 1,396,391; Nov. 1.
Conners, Edward R., assignor to The Precision Truing Machine and Tool Company, Cincinnati, Ohio. Device for truing and dressing grinding-wheels. No. 1,396,392; Nov. 1.
Conners, Edward R., assignor to The Precision Truing Machine and Tool Company, Cincinnati, Ohio. Mechanism for truing and dressing grinding-wheels. No. 1,396,393; Nov. 1.
Conners, Edward R., assignor to The Precision Truing Machine and Tool Company, Cincinnati, Ohio. Mechanism for truing and dressing grinding-wheels. No. 1,396,394; Nov. 1.
Connolly, Charles M., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y. Collar-display form. No. 1,396,557; Nov. 1.
Cook, Frank E., Amarillo, Tex. Self-locking grease-plug. No. 1,396,259; Nov. 1.
Cooley, Fred W., assignor to J. J. Gerber, Minneapolis, Minn. Distributing-spout. No. 1,395,947; Nov. 1.
Copeman Development Company. (See Copeman, Lloyd G., assignor.)
Copeman, Lloyd G., assignor to Copeman Development Company, Flint, Mich. Grease-cup. No. 1,396,386; Nov. 1.
Corning Glass Works. (See Gage, Henry P., assignor.)
Corum, Adolphus H., assignor of one-fourth to G. W. Dunlap, one-fourth to T. Boyce, and one-fourth to L. J. Dunlap, St. Louis, Mo. Fuel-agitator. No. 1,396,801; Nov. 1.
Cotton, Alfred, assignor to Heine Safety Boiler Company, St. Louis, Mo. Check-damper. No. 1,395,395; Nov. 1.
Coulson, Albert M., Baltimore, Md. Dimming mechanism for automobile-lights. No. 1,395,907; Nov. 1.
Cox Brass Manufacturing Company. (See Cox, William G., assignor.)
Cox, William G., Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y. Bumper. No. 1,395,908; Nov. 1.
Crawford, Walter W., Kew Gardens, Surrey, England. Manufacture of bricks. No. 1,395,950; Nov. 1.
Crane, Leonard S., New York, N. Y. Delineating apparatus. No. 1,395,560; Nov. 1.
Crane, Leonard S., New York, N. Y. Sliding-top desk. No. 1,395,558; Nov. 1.
Crown Die and Tool Company. (See Beck, Edward E., assignor.)
Cullinan, John J., Bradford, Pa. Amusement device. No. 1,396,261; Nov. 1.
Cunningham, George T. (See Possinger, W. E., and Cunningham.)
Curtis, Henry, Gloversville, N. Y. Tool-holder. No. 1,395,262; Nov. 1.
Cutts, Richard, Swampscott, assignor of one-half to Renton Heel Company, Lynn, Mass. Unattached heel. No. 1,395,263; Nov. 1.
Dandeville, Leontine. (See Levé, M. S., and de Laitte, assignor.)
Davidson, George A., Ada, Minn. Potato-seed-cutting machine. No. 1,395,482; Nov. 1.
Davis, Cleland, Englewood Cliffs, N. J. Non-recoil gun. No. 1,395,650; Nov. 1.
Davis, Frederick A. W., Pelham, N. Y. Railway-dagman's carriage. No. 1,395,550; Nov. 1.
Dayton Engineering Laboratories Company, The. (See Hunt, John H., assignor.)
Dayton Engineering Laboratories Company, The. (See Walter, Frank L., assignor.)
Deacon, Ernest J. (See Wyles, William H., assignor.)
Dean, Henry D., Benton Harbor, Mich., assignor of one-half to F. J. Petrovics, Chicago, Ill. Cofferdam. No. 1,395,631; Nov. 1.
De Caudemberg, Charles A. C., Nice-Gare, France. Paving composition and making the same. No. 1,395,906; Nov. 1.
De Laitte, Leopold B. (See Levé, M. S., and de Laitte.)
De Lany, Edwin H., and S. H. Payne, New York, N. Y. Apparatus for determining the amount of certain constituents in gases. No. 1,395,560; Nov. 1.
Delbrückamp, Henry D. (See Mulherin, James A., assignor.)
Dellenbarger, Charles E., Chicago, Ill. Display apparatus. No. 1,395,397; Nov. 1.
Dellenbarger, Charles E., Chicago, Ill. Sheet-handling machine. No. 1,395,909; Nov. 1.
Dellinger, Abraham M., Lancaster, Pa. Sheaf-elevator. No. 1,395,561; Nov. 1.
De Luxe Brush Company, The. (See Shalkop, Isaac C., assignor.)
Denney, Charles A., Portland, Ind. Pallet. No. 1,395,483; Nov. 1.
Dennis, Basil W., Detroit, Mich. Window-ventilating stop. No. 1,395,910; Nov. 1.
Dennis, Lewis T., *et al.* (See Hansen, William N., assignor.)
Detroit Pressed Steel Company. (See Putnam, Alden L., assignor.)
Detroit Stove Works. (See Mersfelder, William L., assignor.)
De Vry Corporation, The. (See De Vry, Herman A., assignor.)
De Vry, Herman A., assignor to The De Vry Corporation, Chicago, Ill. Stereopticon. No. 1,395,396; Nov. 1.
De Zeng, Henry L., Moorestown, N. J. Diagnostic instrument. No. 1,395,264; Nov. 1.
Dickinson, Joseph H., Cranford, and L. G. Collyer, Upper Montclair, N. J., assignors to The Aeolian Company. Rewind device for phonographs. No. 1,395,902; Nov. 1.
Diemand, Irma. (See Bollier, W., and Diemand.)
Diss, Daniel B., Newark, N. J., assignor to The Bassick Company, Bridgeport, Conn. Top-bearing caster. No. 1,395,484; Nov. 1.
Ditson, Jesse, Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Shank and bit punch. No. 1,396,702; Nov. 1.
Doble, John A. (See Doble, William A. and J. A.)
Doble Laboratories. (See Doble, William A., and J. A., assignors.)
Doble, William A. and J. A., assignors to Doble Laboratories, San Francisco, Calif. Fluid-heater. No. 1,395,399; Nov. 1.
Dowe, George M., New York, N. Y. Signal-controlling device. No. 1,395,562; Nov. 1.
Downey, Richard F., assignor of one-third to A. Leich and one-third to J. S. Berner, Milwaukee, Wis. Time-recorder. No. 1,395,400; Nov. 1.
Dräger, Alexander B., Lübeck, Germany. Helmet and mask for use with respiratory apparatus. No. 1,395,948; Nov. 1.
Dreyfus, Henry, London, England. Manufacture of solutions, preparations, or compositions having a basis of cellulose acetate. No. 1,395,401; Nov. 1.
Drill, Daniel C., Greenville, Ohio. Transmission and steering mechanism for farm-tractors. No. 1,395,663; Nov. 1.
Drosdzynski, Stanislaus T., Toledo, Ohio. Flexible ladder-support. No. 1,395,563; Nov. 1.

Du Bois, John T., and F. B. Hanna, Detroit, Mich. Paper-clip. No. 1,295,561; Nov. 1.

Du Bois Rubber & Tube Company. (See Leichtman, Silas H., assignor.)

Dudas, George A. (See Gerhausen, L. L., and Dudas.)

Dudley, Howard M., Philadelphia, Pa. Dyeing-machine. No. 1,295,609; Nov. 1.

Dudykian, Antonio, New York, N. Y. Joint for electrodes. No. 1,295,402; Nov. 1.

Duncan, David C. and R. C., Duluth, Minn. Coup for portable gas-generators. No. 1,295,485; Nov. 1.

Duncan, Ronald C. (See Duncan, David C. and R. C.)

Duncan, William M., Alton, Ill. Traveling-grate stoker. No. 1,295,602; Nov. 1.

Dunlap, Guy W., *et al.* (See Corum, Adolphus M., assignor.)

Dunlap, Lilburn J., *et al.* (See Corum, Adolphus M., assignor.)

Easterday, Van Buren, Urbana, Ill. Building-block. No. 1,295,632; Nov. 1.

Eastman Kodak Company. (See Clarke, Elmer T., assignor.)

Eastman Kodak Company. (See Jones, John G., assignor.)

Eckard, James W. (See Stedman, W. H., and Eckard.)

Eckman, Walter H., Mankato, Minn. Electrically-heated electrotuner. No. 1,295,669; Nov. 1.

Edell, Joseph W., assignor of one-half to M. J. Mercer, Cleveland, Ohio. Permissible mining fuse-head. No. 1,295,670; Nov. 1.

Ehrhalt, Frederick M. (See Barnard, Thaddeus F., assignor.)

Ehrhart, Raymond N., and J. A. Fryzell, Edgewood Park, Pa., assignors to Westinghouse Electric & Manufacturing Company. Automatic shut-off valve for jet-condensers. No. 1,295,265; Nov. 1.

Ekberg, Nels, St. Paul, Minn. Rail-cutting device for railways. No. 1,295,763; Nov. 1.

Electric Water Sterilizer and Ozone Company. (See Hartman, Harry B. and F. E., assignors.)

Electro Chemical Company, The. (See Gerstle, John, assignor.)

Electrolytic Zinc Company of Australasia Proprietary Limited. (See Gepp, Herbert W., assignor.)

Elmendorf, James M., Belen, N. Mex. Heel-slitter blank. No. 1,295,604; Nov. 1.

Endless Belt Corporation. (See Grupe, William F., assignor.)

Ensign, William J., assignor to The Vacuum Carburetor Company, Monte Vista, Colo. Vacuum-carburetor. No. 1,295,908; Nov. 1.

Engel, George J., New York, N. Y. Manufacturing ornamentations and finished article derived therefrom. No. 1,295,911; Nov. 1.

Engelhardt, Carl, Butte, Mont. Cloth-holder. No. 1,295,633; Nov. 1.

Enriquez, Magdalena de las S., New York, N. Y. Retainer for ladies' cape-collars. No. 1,295,564; Nov. 1.

Erickson, Axel F., and D. W. Shiek, assignors to All-Steel Equip Company, Aurora, Ill. Door structure. No. 1,295,671; Nov. 1.

Erickson, Edward, Fresno, Calif. Toy. No. 1,295,565; Nov. 1.

Essex Motors. (See Fekete, Stephen I., assignor.)

Essex Motors. (See Whisler, Ralph H., assignor.)

Fedden, Albert H. R., and L. F. G. Butler, Bristol, assignors to The Bristol Aeroplane Company Limited, Bristol, Gloucester, England. Induction-pipe for radial or rotary internal-combustion engines. No. 1,295,930; Nov. 1.

Federal Finance Corporation. (See Choate, William E., assignor.)

Feigenbaum, William, New York, N. Y. Game. No. 1,295,634; Nov. 1.

Felbelmann, Rudolph, Cleveland, Ohio. Rail. No. 1,295,803; Nov. 1.

Fekete, Stephen I., assignor to Essex Motors, Detroit, Mich. Blading-tip. No. 1,295,403; Nov. 1.

Fenner, Herbert E., Ryan Mawr, Pa. Automobile-lock. No. 1,295,337; Nov. 1.

Fenton, John F., Kansas City, Kans. Combination spike-puller. No. 1,295,28; Nov. 1.

Ferdon, Guy W., Cranford, N. J. Conical straining device. No. 1,295,931; Nov. 1.

Ferentzi, Rudolph, Newark, N. J. Heated bed. No. 1,295,917; Nov. 1.

Fiken, William M. (See Quill, Charles J., assignor.)

Finizio, Thomas D., Kitchawan, N. Y., assignor to Steatite Electric Products Corporation. Electric iron. No. 1,295,635; Nov. 1.

Finke, Fred E., Milwaukee, Wis. Time-controlled lighting system. No. 1,295,866; Nov. 1.

Fischer, Gustav A., Cleveland, Ohio. Dry-swing apparatus. No. 1,295,672; Nov. 1.

Fisher, William H., Minocqua, Wis. Rotary motor. No. 1,295,267; Nov. 1.

Flannery Belt Company. (See Mennie, Robert S., assignee.)

Fleming, James E., Scranton, Pa. Journal-box and mounting. No. 1,295,487; Nov. 1.

Flick, James E., Vineland, N. J. Gas-burner attachment. No. 1,295,404; Nov. 1.

Fluhr, Philip H., Nyack, N. Y. Plumbing-clamp. No. 1,295,566; Nov. 1.

Folsom, William S., Stoneham, Mass., assignor to Standard Oil Company of New York, New York, N. Y. Liquid-dispensing apparatus. No. 1,295,490; Nov. 1.

Ford, Henry, Detroit, Mich. (See Sorensen, Charles E., assignor.)

Ford, Henry, Dearborn, Mich. Hub construction. No. 1,295,911; Nov. 1.

Forest, Nicola, Santa Rosa, Calif. Water-meter box. No. 1,295,507; Nov. 1.

Forrer, Eugene, Budd Lake, N. J. Pipe-joint. No. 1,295,935; Nov. 1.

Foerl, Victor, Paris, France. Automatic gas igniter and extinguisher. No. 1,295,937; Nov. 1.

Frank, George, deceased, by J. Frank, executrix, Chicago, Ill., assignor to Frank, Lesser & Co., Chicago, Ill. Lamp. No. 1,295,900; Nov. 1.

Frank, Mary J., executrix. (See Frank, George.)

Fram, John W., assignor of one-half to E. A. Hoffmann, St. Louis, Mo., Grease and oil cup. No. 1,295,405; Nov. 1.

Franz, John J., Brightwood, Mass. Wrench. No. 1,295,982; Nov. 1.

Fratinger, Marion V. E. Costelli, and E. Howard, Hope, Tex., assignors to Gerber, No. 1,295,511; Nov. 1.

Freund, Harry E., Shelbyville, Mo. Dispensing apparatus. Nov. 1.

Frick, Gerald Martin, Wis. Cableway-operating engine. No. 1,295,673; Nov. 1.

Fusco, Frank, *et al.* (See Merli, C., and Bottarini, assignors.)

Fuster, Frederick W., Kansas City, Mo., assignor to United Shoe Machinery Corporation, Paterson, N. J. Splitting and buffing machine. No. 1,295,867; Nov. 1.

Gage, Henry P., assignor to Corning Glass Works, Corning, N. Y. Optical projecting system. No. 1,295,965; Nov. 1.

Gale Ray Machinery Company. (See Gale, Henry A., assignor.)

Gale, Henry A., Pittsburg, assignor to Gale Ray Machinery Company. Wood-working machine. No. 1,295,409; Nov. 1.

Gamble, Joseph W., assignor by mesne assignments, to H. S. B. W.-Cochrane Corporation, Philadelphia, Pa. Water-heater. No. 1,295,681; Nov. 1.

Gamille, James F., Fredericktown, Pa. Ventilating signal appliance for mines. No. 1,295,954; Nov. 1.

Garver, Uriah D., assignor to G. I. Richter, Philadelphia, Pa. Blasting and ignition system. No. 1,295,309; Nov. 1.

Gascon, Malcolm F., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,295,991; Nov. 1.

Gebauer, Charles L., Cleveland, Ohio. Metallic article. No. 1,295,259; Nov. 1.

Gee, Frederick S., London, England. Display device. No. 1,295,982; Nov. 1.

Gentis, Herman, Victoria, British Columbia, Canada. Incubator. No. 1,295,989; Nov. 1.

George, Charles L., assignor to The Buckeye Traction Ditcher Company, Findlay, Ohio. Sight-arm attachment for ball-measuring-machines. No. 1,295,810; Nov. 1.

George, John W., Stroud Green, England. Rotary internal-combustion engine. No. 1,295,698; Nov. 1.

Gepp, Herbert W., assignor to Electrolytic Zinc Company of Australasia Proprietary Limited, Melbourne, Victoria, Australia. Treatment of zinc-bearing ores. No. 1,295,813; Nov. 1.

Gerber, Edward V., Leavenworth, Kans. Multiple looking-glass. No. 1,295,572; Nov. 1.

Gerber, James J. (See Cooley, Fred W., assignor.)

Gerstle, Sam, assignor to The Electro Chemical Company, Dayton, Ohio. Electrolytic cell. No. 1,295,704; Nov. 1.

Gibbs, Benedict T., Jr., assignor to Morden Frog & Crossing Works, Chicago, Ill. Railway-crossing. No. 1,295,829; Nov. 1.

Giles, Jesse H., Ogden, Utah. Lock. No. 1,295,638; Nov. 1.

Gillis, James B., B. J. Rhodes, and H. J. Lowe, Salisbury, Md. Spike-puller. No. 1,295,950; Nov. 1.

Ginder, Wallace G., assignor to Brock and Company, Los Angeles, Calif. Ring. No. 1,295,469; Nov. 1.

Gish, S. J. (See Jennings, Aaron H., assignor.)

Glass, Perley B., Brookline, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Splitting-machine. No. 1,295,868; Nov. 1.

Glass, Perley B., Brookline, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Punch-binding-straightening and cement-applying machine. No. 1,295,570; Nov. 1.

Globe Machine & Stamping Company, The. (See Root, Ralph R., assignor.)

Glover, Frank B., New York, N. Y. Adjustable guide for transfer mechanisms. No. 1,295,490; Nov. 1.

Gobats, Lafayette C., Brooklyn, N. Y. Alarm mechanism for radiator-tanks. No. 1,295,271; Nov. 1.

Godfrey, Truman M., Chicago, Ill., assignor to The American Cotton Oil Company, New York, N. Y. Oil-proof and greaseproof paper can. No. 1,295,273; Nov. 1.

Gold Car Heating & Lighting Company. (See Gold, Edward R., assignor.)

Gold, Edward R., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Safety positive lock for hose-couplings. No. 1,295,213; Nov. 1.

Goodrich, B. F., Company, The. (See Stedman, H. A., and Juve, assignors.)

Goodrich, B. F., Company, The. (See Kemmet, Curt, assignor.)

Gooding, Frank L., Brookline, assignor to A. O. Norton, Inc., Boston, Mass. Spool-controlling device for lifting-jacks. No. 1,295,340; Nov. 1.

Gooding, Frank L., Brookline, assignor to A. O. Norton, Inc., Boston, Mass. Self-lowering jack. No. 1,295,341; Nov. 1.

Gottlieb, Carl J. A., Aarhus, Denmark. Creaseless end pin-tumbler connection. No. 1,295,624; Nov. 1.

Gottlieb, Carl J. A., Aarhus, Denmark. Lubricating device for sewing-tools. No. 1,295,625; Nov. 1.

Graf, Walter W., East Cleveland, assignor of one-half to J. D. Schmitz, Cleveland, Ohio. Lamp. No. 1,295,690; Nov. 1.

Granby, Frank, Southampton, Mass. Reflect heel. No. 1,295,968; Nov. 1.

Grannis, Herbert C., assignor to Hobart Specialty Company, Troy, N. Y. Rolling and locking device for game apparatus. No. 1,295,705; Nov. 1.

Gravlee, Sam H., Long Beach, Calif. Illuminated Mezuzah-plate. No. 1,295,467; Nov. 1.

Grevatt, Charles H., Fort Royal, Va., Station-indicator. No. 1,295,916; Nov. 1.

Graves, Eugene C., Kankakee, Ill. Weed-killing implement. No. 1,295,637; Nov. 1.

Gray & Davis. (See Moses, William S., assignor.)

Green, Robert C., Winchester, England. Hydraulic ram for raising water. No. 1,295,949; Nov. 1.

Greer, Archie P. (See Leonard, D. C., and Greer.)

Gregson, Herbert, Wankwitch, N. S. Tobacco-pipe. No. 1,295,817; Nov. 1.

Greve, Edgar E., Bellevue, Pa. Rotary well-drilling apparatus. No. 1,295,706; Nov. 1.

Grieshaber, William A., assignor to Wire Chaser Companies, Inc., Waterbury, Conn. Crimped joint for bathroom-fixtures. No. 1,295,707; Nov. 1.

Griffin, Edgar L., Ladue, Mo. Saw. No. 1,295,957; Nov. 1.

Grode, Frank P., and F. Hasting, Kansas City, Mo. Ventilating-sash lock. No. 1,295,708; Nov. 1.

Grotlisch, Victor E. (See Starling, W. F., Grotlisch, and Veltch.)

Grubman, Leo J., Erie, Pa., and G. A. Dufen, Brooklyn, N. Y. Speed-indicating instrument. No. 1,295,966; Nov. 1.

Grunseman, Michael G., Smithwick, Minn. Shoe. No. 1,295,635; Nov. 1.

Grundmann, Otto W., Jersey City, N. J. Swimming device. No. 1,295,415; Nov. 1.

Grupe, William F., North Bergen, N. J., assignor to Endless Belt Corporation, Inc. Blanking and stamping. No. 1,295,515; Nov. 1.

Gudka, E. E., Mfg. Co. (See Williams, Frank P., assignor.)

Guggenheimer, Leopold, Hastings-upon-Hudson, N. Y., assignor to Rolup Screen Company. Window-screen. No. 1,295,492; Nov. 1.

Guy, Frank E., New Southgate, London, England. Calculating-machine. No. 1,295,963; Nov. 1.

Guy, Virgil A., Englewood, Colo. Lamp shade and toster. No. 1,295,545; Nov. 1.

H. C. Tack Company, The. (See Hill, Charles K., assignor.)

H. S. B. W.-Cochrane Corporation. (See Gamble, Joseph W., assignor.)

Hagelstein, Christian H. T., assignor to The Reece Button Hole Machine Company, Boston, Mass. Sewing-machine. No. 1,295,274; Nov. 1.

Hague, Floyd T., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Winding for dynamo-electric machines. No. 1,295,696; Nov. 1.

Haines, George B., Chicago, Ill. Waterproofing apparatus. No. 1,295,915; Nov. 1.

Halbleib, Edward A., assignor to North East Electric Company, Rochester, N. Y. Switch-box. No. 1,295,498; Nov. 1.

Hamel Shoe Machinery Company. (See Angell, Otis B., assignor.)

Hamel Shoe Machinery Company. (See Lancaster, John T., assignor.)

Hamel Shoe Machinery Company. (See Perrine, James O., assignor.)

Hamel Shoe Machinery Company. (See Scott, John E., assignor.)

Hamilton, Thomas S., Kansas City, Mo. Detachable sanding-sole. No. 1,295,522; Nov. 1.

Harbaugh, Charles B., Milwaukee, Wis. Pump-support. No. 1,295,275; Nov. 1.

Hartman National Bank of the City of New York, trustee. (See Vassalli, Anthony, assignor.)

Harrington, Frank B., assignor of one-half to F. A. Miller, Los Angeles, Calif. Reinforcing spring. No. 1,295,494; Nov. 1.

Harris, Henry, London, England. Destroying mud. No. 1,294,820; Nov. 1.

Harsen, William N., Attica, assignor of one-third to H. B. Palmer and one-third to L. T. Bennis, Imlay City, Mich. Lifting-jack. No. 1,295,621; Nov. 1.

Hartel, Frank B. (See Dorman, Jerry S., and Hartel.)

Hartman, Frank B. (See Hartman, Harry B. and F. E.)

Hartman, Harry B. and F. E., Sweetdale, Pa., assignors to Electric Water Sterilizer and Ozone Company. Drying or setting paints, varnishes, enamels, or the like. No. 1,295,569; Nov. 1.

Hassler, Robert P., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for vulcanizing rubber pumps. No. 1,295,810; Nov. 1.

Hastings, Charles S., New Haven, Conn. Lens system for terrestrial telescopes. No. 1,295,822; Nov. 1.

Hayes, Albert, New York, N. Y., assignor to Carnot Development Corporation. Rotary pump. No. 1,295,916; Nov. 1.

Hayes, Albert, New York, N. Y., assignor to Carnot Development Corporation. Rotary pump. No. 1,295,917; Nov. 1.

Hayes, Daniel J. (See Anderson, Edward H., assignor.)

Hazen, Chas D., Washington, D. C. Tool for scraping cylindrical surfaces. No. 1,295,823; Nov. 1.

Heim Safety Boiler Company. (See Cotton, Alfred, assignor.)

Heimrand, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, Armature-excited dynamo-electric machine. No. 1,295,944; Nov. 1.

Hemleb, Martin, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Motor attachment for sewing-machines. No. 1,295,640; Nov. 1.

Hemsath, Eva N., Cincinnati, Ohio. Amusement device. No. 1,295,674; Nov. 1.

Hendricks, Daniel. (See Arvesqueier, Frederick E., assignor.)

Henry, Stewart J., Cedar Rapids, Iowa. Automatic furnace-damper controller. No. 1,295,709; Nov. 1.

Herman, John, Los Angeles, Calif. Ore-crusher. No. 1,295,950; Nov. 1.

Hershey, Delmer H., Lorain, Ohio. Alarm for automobiles. No. 1,295,276; Nov. 1.

Herskovits, Max, Chicago, Ill. Electric-lighting fixture. No. 1,295,710; Nov. 1.

Herskovits, Max, Chicago, Ill. Electric-lighting fixture. No. 1,295,711; Nov. 1.

Hessel, Philip, Norfolk, Va. Ice-machine. No. 1,295,421; Nov. 1.

Hesser, Ralph V., Yonkers, N. Y. Chemical apparatus. No. 1,295,541; Nov. 1.

Hewitt, Frank. (See Walker, George E. and S. H., and Hewitt.)

Heywood-Wakefield Company. (See Lloyd, Marshall B., assignor.)

Higbee, Albert H. (See Prosser, Walter B., assignor.)

Hill, Charles K., assignor to The H. C. Tack Company, Cleveland, Ohio. Tack or nail. No. 1,295,530; Nov. 1.

Hirsch, Abe. (See Hoerger, William, assignor.)

Hirschel, Benjamin, assignor to National Ura Ray Co., New York, N. Y. Tea-cartridge. No. 1,295,649; Nov. 1.

Hitzenberger, Herman H., Oakland, Calif. Trap. No. 1,295,676; Nov. 1.

Hodgson, James E., New York, N. Y. Embroidery-machine. No. 1,295,291; Nov. 1.

Hoerger, William, assignor of one-half to A. Hirsch, Albert Lea, Minn. Oil-burner. No. 1,295,624; Nov. 1.

Hoffman, Harry A., and W. H. Juve, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Mixing rubber with comminuted metal. No. 1,295,413; Nov. 1.

Hoffman, Peter A., Hastings, Minn. Clamping device. No. 1,295,428; Nov. 1.

Hoffmann, Clarence O., and W. A. McKinnon, Detroit, Mich. Fuel-supply system for internal-combustion engines. No. 1,295,412; Nov. 1.

Hoffmann, Edwin A. (See Franz, John W., assignor.)

Holden, Hiram, Manchester, N. H. Shoe-upper. No. 1,295,277; Nov. 1.

Holland, Granville G. P., Jr., Norfolk, Va. Testing device for spark-plugs. No. 1,295,570; Nov. 1.

Hollister, Frederick P., Beaver Dam, Wis. Scrubbing-brush. No. 1,295,495; Nov. 1.

Holmes, Harris P., Claremont, N. H., assignor to Sullivan Machinery Company, Mining-machine. No. 1,295,696; Nov. 1.

Hopkins, Richard M., Rutherford, N. J., assignor to American District Telegraph Company, New York, N. Y. Supervisory signaling system. No. 1,295,826; Nov. 1.

Horner, John H., Enterprise, Oreg. Window construction. No. 1,295,963; Nov. 1.

Hosley, Bert F., Syracuse, N. Y. Non-skid fastening means. No. 1,295,715; Nov. 1.

Howard, Frank S., Lisbon, N. H. Car-coal-conveying means for internal-combustion engines. No. 1,295,571; Nov. 1.

Hudson, Percy G., Liverpool, England. Apparatus for taking soundings. No. 1,295,572; Nov. 1.

Huffman, Lewis, Toronto, Ontario, Canada. Knee-lock. No. 1,295,414; Nov. 1.

Hughes, Hugh T., assignor to The Cleveland Chain & Mfg. Company, Cleveland, Ohio. Chain-link connector. No. 1,295,415; Nov. 1.

Hughes, James W., Haddon Heights, N. J. Automatic vending-machine. No. 1,295,416; Nov. 1.

Hughes, John M., Atlanta, Ga. Power mechanism. No. 1,295,573; Nov. 1.

Humphrey, Ernest N., New Britain, Conn. Belt-buckle. No. 1,295,718; Nov. 1.

Hunkins, William S., Los Angeles, Calif. Hose-supporter. No. 1,295,416; Nov. 1.

Hunkins, William S., Los Angeles, Calif. Hose-supporter. No. 1,295,417; Nov. 1.

Hunt, John H., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Heating system. No. 1,295,490; Nov. 1.

Hupfel, Adolph G., Reno, Nev. Golf-ball-marking device. No. 1,295,418; Nov. 1.

Hurlbut, Edward G. (See Barnes, F. A., and Hurlbut.)
Huseman, Charles, St. Louis, Mo. Convertible child's wagon, coaster, and scooter. No. 1,395,427; Nov. 1.
Hustus, Thomas, Kokomo, Ind. Farm-gate. No. 1,395,574; Nov. 1.
Hutchins, Henry M., New York, N. Y. Display-stand. No. 1,395,419; Nov. 1.
Huttig, Fred. (See Grode, F. P., and Huttig.)
Hyltenette, Neak V., Christiania, Norway. Separating metals by electrolysis. No. 1,395,827; Nov. 1.
Ingersoll, Howard L. (See Brown, Ray M., assignor.)
Ingersoll-Rand Company. (See Ditzen, Jesse, assignor.)
Ingersoll-Rand Company. (See Smith, William A., assignor.)
International Cork Company. (See Allatt, Thomas, assignor.)
International Harvester Company. (See Burger, Leopold F., assignor.)
International Harvester Company. (See Johnston, Edward A., assignor.)
International Harvester Company. (See Morwin, George M., assignor.)
International Harvester Company. (See Mowry, Edward, assignor.)
International Harvester Company. (See Sperry, Herbert B., assignor.)
International Patent Licensing Corporation. (See Peters, William A., assignor.)
Iver, Barry, Chicago, Ill. Intake-manifold. No. 1,395,677; Nov. 1.
Jacovett, Benedict D., Lorain, Ohio. Sewer-redilling tray. No. 1,395,823; Nov. 1.
Jameson, Charles V., Chicago, Ill. Air-motor for automatic musical instruments. No. 1,292,278; Nov. 1.
Jarvis, Ida H., Brookline, Mass. Landscape. No. 1,395,575; Nov. 1.
Jeffrey Manufacturing Company, The. (See Levis, Nils D., assignor.)
Jennings, Aaron R., Owensboro, assignor of one-half to S. J. Glah, Central City, Ky. Tire-tread. No. 1,395,576; Nov. 1.
Jennison, Harry G., Toledo, Ohio. Wood-block pavement. No. 1,395,829; Nov. 1.
Jensen, Olaf, Notodden, assignor to Norsk Hydro Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Concentration of nitric acid. No. 1,395,577; Nov. 1.
Johnson, Albert B., New Britain, Conn. Forceps. No. 1,395,714; Nov. 1.
Johnson, Hvass S., Lewis, Okla. Spring-tire. No. 1,395,430; Nov. 1.
Johnson, Fred, Burnley, England. Adjustable last for use in making and repairing boots, shoes, and the like by hand. No. 1,395,578; Nov. 1.
Johnson, Gustave P., Waukegan, Ill. Cushion-spring. No. 1,395,431; Nov. 1.
Johnson, Wiley B. (See Mitchell, John E., assignor.)
Johnston, Edward A., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Traction-wheel. No. 1,395,422; Nov. 1.
Jones, Charles B., above Cynwyd, Pa. Resistance-switch. No. 1,395,579; Nov. 1.
Jones, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Package of X-ray film. No. 1,395,915; Nov. 1.
Jones, Lawrence R., Peoria, Ill. Valve-lock. No. 1,395,678; Nov. 1.
Jones, Thomas J., Jersey City, N. J. Automatic tension-controlling mechanism. No. 1,395,580; Nov. 1.
Joseph, Louis, Joliet, Ill. Ship-retarding device. No. 1,395,890; Nov. 1.
Joseph, Richard, Massillon, Ohio. Roofing-tile. No. 1,395,432; Nov. 1.
Josephsohn, Adalbert, New York, N. Y. Display-card. No. 1,395,581; Nov. 1.
Julius, George A., Sydney, and F. A. Wilkinson, Sans Souci, near Sydney, New South Wales, Australia. Ticket-issuing machine. No. 1,395,270; Nov. 1.
Justus, Theodore R., Chicago, Ill. Clothespin. No. 1,395,434; Nov. 1.
Juttlen, Henry W., Hamilton, Ontario, Canada. Upright electric toaster. No. 1,395,545; Nov. 1.
Juve, Walter H. (See Hoffman, H. A., and Juve.)
Kahn Mirror Plate Company. (See Martin, Rudolph, assignor.)
Kahn, Samuel, New York, N. Y. Window-cleaning device. No. 1,395,580; Nov. 1.
Kalsing, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Ignition-switch. No. 1,395,679; Nov. 1.
Kalamazoo Loose Leaf Binder Company. (See Wigginton, George P., assignor.)
Kaplan, Max, Cincinnati, Ohio. Arch-support for the human foot. No. 1,395,496; Nov. 1.
Kamprath, Josef, Lancaster, Pa. Animal-trap. No. 1,395,680; Nov. 1.
Kanan, Mahlon O., Chicago, Ill. Bottle-capping tool. No. 1,395,499; Nov. 1.
Kavle, Oscar C., Syracuse, N. Y. Gear-testing mechanism. No. 1,395,582; Nov. 1.
Keenan, George A., Pittsburgh, Pa. Method of and machine for straightening bars. No. 1,395,681; Nov. 1.
Keith, Darwin E., Fort Worth, Tex. Holder for car and locomotive replacing frogs. No. 1,395,583; Nov. 1.
Kelley, George A., Burlington, Kans. Game. No. 1,395,643; Nov. 1.
Kellogg Switchboard and Supply Company. (See Kalsing, William, assignor.)
Kelly, Martha E., Laredo, Tex. Cereal food and preparing the same. No. 1,395,501; Nov. 1.
Kennedy, Joseph E., New York, N. Y. Apparatus for cutting fruits, vegetables, and the like. No. 1,395,495; Nov. 1.
Kennedy, Joseph E., New York, N. Y. Apparatus for cutting vegetables and the like. No. 1,395,496; Nov. 1.
Kennedy, William A., Leonia, N. J., and A. J. Mottau, Far Rockaway, N. Y.; said Mottau assignor to said Kennedy. Multiple-unit electric heater. No. 1,395,584; Nov. 1.
Kent, Arthur A., Beaumont, Pa. Electric contact device. No. 1,395,427; Nov. 1.
Kentucky Switch & Signal Co. (See Scoggan, Richard E., assignor.)
Kephart, Harmon M. (See Sloan, Samuel R., assignor.)
Kerlin, Harry and J. R. Malaney, Birmingham, Ala. Penholder. No. 1,395,429; Nov. 1.
Kilburn, Arthur R., Whitehall, Wash. Automatic safety train-stop mechanism. No. 1,395,632; Nov. 1.
Kirby, James E., Cleveland, Ohio. Brushing mechanism for sweepers. No. 1,395,500; Nov. 1.
Kishima, Denjiro, assignor to Hirotchiro Kishima, Oakland, Calif. Collar-ironing machine. No. 1,395,501; Nov. 1.
Kishima, Hirotchiro. (See Kishima, Denjiro, assignor.)
Kitchen, Lewis R., Indianapolis, Ind. Oil-gage for motor-cars. No. 1,395,433; Nov. 1.
Kiser, Thomas E., Chattanooga, Okla. Socket-wrench. No. 1,395,588; Nov. 1.
Klauber, Edward. (See Monro, E., and Klauber.)
Kleckner, Arthur C., assignor to Webster Electric Company, Racine, Wis. Ignition apparatus. No. 1,395,429; Nov. 1.
Kleinberg, Victor, et al. (See Merli, C., and Bertolini, assignor.)
Kling, Fred R., Youngstown, and L. B. Weddell, Cleveland, Ohio. Pitching-mat. No. 1,395,823; Nov. 1.
Knoedler, Jacob L. (See Robbins, Henry, assignor.)
Knott, Eustace E., Sharon, Mass. Popcorn-salting machine. No. 1,395,715; Nov. 1.
Knox, George K., Wilkinsburg, Pa. Cotton-harvester. No. 1,395,644; Nov. 1.
Koenig, Philipp, Cuero, Tex. Insecticide for boll-weevils. No. 1,395,910; Nov. 1.
Kohnke, Alfred, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Making horny bodies. No. 1,395,834; Nov. 1.
Kopp, Waldemar. (See Monro, E., and Klauber, assignors.)
Kopp, Waldemar. (See Monro, Randolph, assignor.)
Kopp, Waldemar, New York, N. Y. Gas-mask. No. 1,395,626; Nov. 1.
Kopp, Waldemar, New York, N. Y. Gas-mask. No. 1,395,636; Nov. 1.
Kopp, Waldemar, New York, N. Y. Gas-mask. No. 1,395,637; Nov. 1.
Koretsky, Harry M., New York, N. Y. Dry battery-cell. No. 1,395,581; Nov. 1.
Koretsky, Harry M., New York, N. Y. Dry battery-cell. No. 1,395,582; Nov. 1.
Kostenbauder, Harry D., Ariston, Pa. Mineral or coal separating jig. No. 1,395,716; Nov. 1.
Kramer, Harry, New York, N. Y. Wheel-lock for automobiles. No. 1,395,430; Nov. 1.
Kray, Jacob, Elgin, Ill. Roller-bearing-sleeve puller. No. 1,395,502; Nov. 1.
Krenky, Jesse E., Petaluma, Calif. Brooder-stove. No. 1,395,431; Nov. 1.
Krichbaum, William F., Irvington, N. J. Automatic shut-off valve. No. 1,395,585; Nov. 1.
Kroyer, John M., Stockton, Calif. Cleat for tractor-wheels. No. 1,395,433; Nov. 1.
Kruz, Frank, Chicago, Ill. Stove. No. 1,395,488; Nov. 1.
Kuentzel, Carl, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-core-stripping machine. No. 1,395,434; Nov. 1.
Küppers, Karl, Aachen, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Method of and apparatus for forming glass tubes. No. 1,395,963; Nov. 1.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,395,503; Nov. 1.
L-W-F Engineering Company. (See Black, Archibald, assignor.)
Laird, Henri L. (See Bellan, E., and Laird.)
L'Air Liquide Societe Anonyme Pour l'Etude et l'Exploitation Des Procedes Georges Claude. (See Claude, Georges, assignor.)
Lancaster, Herbert S., Wabash, Ind. Resilient wheel. No. 1,395,435; Nov. 1.
Lancaster, John T., Haverhill, Mass., assignor to Hamel Shoe Machinery Company. Heel-nailing machine. No. 1,395,883; Nov. 1.
Langdon, Robert M., Englewood Cliffs, N. J. Chain. No. 1,395,283; Nov. 1.
Lantieri, Frank and G., Jersey City, N. J. Adjustable clamp. No. 1,395,586; Nov. 1.
Lantieri, Gabriel. (See Lantieri, Frank and G.)
Lavoie, Alphonse J., Montreal, Quebec, Canada. Clutch and brake mechanism. No. 1,395,840; Nov. 1.

Lavoie, Alphonse J., Montreal, Quebec, Canada. Clutch and brake mechanism. No. 1,395,841; Nov. 1.
Lawrence, Frederick K., Chicago, Ill. Turning-tool. No. 1,395,436; Nov. 1.
Leach, Horace J., Mount Carmel, Ill. Toy vehicle. No. 1,395,842; Nov. 1.
Le Cocq, Frank and I., Aberdeen, S. D. Sand, gravel, and stone cleaning machine. No. 1,395,717; Nov. 1.
Le Cocq, Irwin. (See Le Cocq, Frank and I.)
Lee, Marie P., assignor to North East Electric Company, Rochester, N. Y. Electric system. No. 1,395,504; Nov. 1.
Leedom, Walter M., Oakland, Calif. Direction-indicator. No. 1,395,645; Nov. 1.
Legg, John E., San Antonio, Tex. Chiropractic table. No. 1,395,846; Nov. 1.
Legg, David A. (See Weismann, C., and Legg.)
Leich, Arthur, et al. (See Downey, Richard F., assignor.)
Leighton, Albert. (See Randall, E. H., and Leighton.)
Leiman, Henry, Tampa, Fla. Making cigar-boxes. No. 1,395,843; Nov. 1.
Leland Lock Company. (See Stanley, Theodore D., assignor.)
Leonard, Don C., and A. P. Greer, Greenville, S. C. Front-rail stand for spinning-frames. No. 1,395,284; Nov. 1.
Levi, Marcus S., Oakland, and L. R. de Laitte, assignors to L. Deadeville, San Francisco, Calif. Machine for carburating air. No. 1,395,505; Nov. 1.
Levens, Swan J., assignor of one-third to C. Shields and one-third to J. T. Marron, Rock Island, Ill. Storage battery. No. 1,395,683; Nov. 1.
Levis, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine. No. 1,395,647; Nov. 1.
Lewis, Rollin C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Dial-lock. No. 1,395,844; Nov. 1.
Lewis, Rollin C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Dial-lock. No. 1,395,845; Nov. 1.
Lewis, Samuel H., Richmond, Va. Steam-supply means for cylinders of railway-locomotives. No. 1,395,648; Nov. 1.
Libenschek, Rudolf, Pittsburgh, assignor of one-third to S. Lovrencic, Bellevue, and one-third to P. Radocaj, Pittsburgh, Pa. Muffler. No. 1,395,930; Nov. 1.
Liebau, Richard, New Haven, Conn., assignor to The Westinghouse Air Spring Company. Magnetic spring. No. 1,395,437; Nov. 1.
Liebau, Richard, New Haven, Conn., assignor to The Westinghouse Air Spring Company. Air-spring suspension. No. 1,395,438; Nov. 1.
Liebknecht, Otto, Frankfort-on-the-Main, Germany, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Manufacture of perborates. No. 1,395,684; Nov. 1.
Liebknecht, Otto, Frankfort-on-the-Main, Germany, assignor to The Roessler & Hasslacher Medical Company, New York, N. Y. Manufacture of alkali perborates. No. 1,395,685; Nov. 1.
Liebler, Henry B. (See Mehl, C. F., Liebler, Nall, and Nebbe.)
Lightfoot, Liles H., Signal Mountain, assignor to Du Bois Rubber & Tube Company, Chattanooga, Tenn. Inner tube. No. 1,395,439; Nov. 1.
Lindley, George W., Philadelphia, Pa. Pneumatic tire. No. 1,395,688; Nov. 1.
Lindmark, Mauz E., Brooklyn, N. Y. Envelop check-book stub. No. 1,395,637; Nov. 1.
Lloyd, Marshall B., Menominee, Mich., assignor, by mesne assignments, to Heywood-Wakefield Company, Boston, Mass. Reed-weaving machine. No. 1,395,964; Nov. 1.
Lochner, Albert T., assignor to Wodack Electric Tool Corporation, Chicago, Ill. Brush-holder. No. 1,395,440; Nov. 1.
Long, Elmer C., Quincy, Ill. Piston. No. 1,395,441; Nov. 1.
Loomer, Henry M., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Burnishing-machine. No. 1,395,285; Nov. 1.
Lord, John D., Winthrop, Mass. Liquid-fuel burner. No. No. 1,395,846; Nov. 1.
Lorey, William, Philadelphia, Pa. Adjustable lamp-support. No. 1,395,847; Nov. 1.
Loudon, Warren P., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Storage-battery construction. No. 1,395,902; Nov. 1.
Lovrencic, Slavk, et al. (See Libenschek, Rudolf, assignor.)
Lowe, Hollis J. (See Gillis, J. B., Rhodes, and Lowe.)
Ludlow, George M., Chicago, Ill. Territorial business-chart. No. 1,395,848; Nov. 1.
Lunkea Window Company, The. (See Stickle, Frederick A., assignor.)
Lutsey, George E., Wilkes-Barre, Pa. Emergency rear wheel axle and hub. No. 1,395,921; Nov. 1.
Lux, George J., and J. Wilcox, Independence, Kans. Scaffold. No. 1,395,644; Nov. 1.
McCaig, Thomas E. (See Roadhouse, Robert, assignor.)
McCarter, William A., Topeka, Kans. Dental expansion-arch. No. 1,395,922; Nov. 1.
McCarty, Roy A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Ventilation of dynamo-electric machines. No. 1,395,847; Nov. 1.
McCoy, James W., Detroit, Mich. Chicken-roost. No. 1,395,649; Nov. 1.
McCoy, Marion M., Dawson, N. Mex., assignor of one-half to G. A. Will, St. Louis, Mo. Spark-plug. No. 1,395,923; Nov. 1.
McCrosky, Aubrey D., assignor of one-half to B. B. McCrosky, Oakland, Calif. Doll. No. 1,395,984; Nov. 1.
McCrosky, Bynum B. (See McCrosky, Aubrey D., assignor.)
McCulloch, Alexander, Govan, Saskatchewan, Canada. Door latch. No. 1,395,688; No. 1.
McGavran, Stephen W. (See McLean, E. J., and McGavran.)
McKenzie, Joseph H., Beaumont, Tex. Horse-boot. No. 1,395,689; Nov. 1.
McKinnon, William A. (See Hoffmann, C. O., and McKinnon.)
McLachlan, John, East Elmhurst, N. Y. Cam-shaft remover. No. 1,395,567; Nov. 1.
McLaren, Henry, assignor of one-half to J. & H. McLaren, Limited, Leeds, England. Cable-reciprocating apparatus. No. 1,395,850; Nov. 1.
McLaren, J. & H., Limited. (See McLaren, Henry, assignor.)
McLean, Edward J., San Francisco, and S. W. McGavran, Burlingame, Calif. Atomizing and spraying device. No. 1,395,995; Nov. 1.
McLean, Francis B., Ocean Grove, N. J. Valve-operating mechanism. No. 1,395,851; Nov. 1.
McManus, Joseph C., Jacksonville, Fla. Pedal-lock. No. 1,395,906; Nov. 1.
McMeans, William, West Liberty, Iowa. Mausoleum. No. 1,395,852; Nov. 1.
McReynolds, William A., and R. Briggs, Haselton, Kans. Valve. No. 1,395,756; Nov. 1.
McWhirter, John S., New York, N. Y. Foldable seat for prepayment-cars. No. 1,395,757; Nov. 1.
Macdonald, David B., Leicester, England. Manufacture of picric acid. No. 1,396,001; Nov. 1.
MacGregor, Peter G., New York, N. Y., assignor to Pyrene Manufacturing Company. Spray-nozzle. No. 1,395,442; Nov. 1.
Mack, Patrick H., Bradford, assignor to Oil Well Supply Company, Pittsburgh, Pa. Oil-well packer. No. 1,395,718; Nov. 1.
Mack, Patrick H., Bradford, assignor to Oil Well Supply Company, Pittsburgh, Pa. Oil-well packer. No. 1,395,719; Nov. 1.
Mack, Patrick H., Bradford, assignor to Oil Well Supply Company, Pittsburgh, Pa. Well-seal. No. 1,395,720; Nov. 1.
MacNeill, John B., Wilkinsburg, Pa., assignor to Westinghouse Electric Manufacturing Company. Circuit-breaker. No. 1,395,848; Nov. 1.
Madison, Randolph, Petersburg, Va. Locking device. No. 1,395,721; Nov. 1.
Magnetic Power Transmitter Company. (See Setterstrom, Ferdinand, assignor.)
Magoun, Francis P., Cambridge, Mass. Towing submerged objects, such as submarine torpedoes. No. 1,395,924; Nov. 1.
Malaney, John R. (See Kerlin, H., and Malaney.)
Manzapane, Salvatore, et al. (See Merli, C., and Bertolini, assignors.)
Mansure, Nellie F., Chicago, Ill. Bolster or pillow-roll support. No. 1,395,505; Nov. 1.
Mardis, Paul L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,395,849; Nov. 1.
Markert, Frederick E., assignor to John Boyle & Company, Incorporated, New York, N. Y. Fastening device. No. 1,395,443; Nov. 1.
Marks, Albert J., New Britain, Conn. Numbering-machine. No. 1,395,722; Nov. 1.
Marriott, Harry H., Okmulgee, Okla. Sign. No. 1,395,853; Nov. 1.
Marron, J. T., et al. (See Leveen, Swan J., assignor.)
Marsteller, Sylvester A., Carrick, assignor of one-half to J. H. Roney, Pittsburgh, Pa. Brick and wall construction. No. 1,395,507; Nov. 1.
Martin, Jacob F., Bellevue, Ohio. Automobile-buffer. No. 1,395,925; Nov. 1.
Martin, William H., New York, N. Y., assignor to American Telephone and Telegraph Company. Balancing signaling system. No. 1,395,854.; Nov. 1.
Martini, Rudolph, assignor to Kahn Mirror Plate Company, St. Louis, Mo. Mirror-holder. No. 1,395,855; Nov. 1.
Maruna, Michael J. (See Edell, Joseph W., assignor.)
Mason, Earl W., Los Angeles, and C. D. Miller, San Diego, Calif. Road-map. No. 1,395,508; Nov. 1.
Mason, Earl W., and C. D. Miller, Los Angeles, Calif. Road-map. No. 1,395,509; Nov. 1.
Mason, William A., Boston, Mass. Bench for handling oil-burners. No. 1,395,856; Nov. 1.
Masszcyk, Alexander, Milwaukee, Wis. Operating means for hinged tools. No. 1,395,758; Nov. 1.
Matthews, Thomas A., Nashville, Tenn. Delivery-cabinet. No. 1,395,857; Nov. 1.
Maxwell, Maxwell C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Combined hoist and hopper. No. 1,395,858; Nov. 1.
Mayhew, Walter H., Toronto, Ohio. Apparatus for handling sewer-pipe and the like. No. 1,395,588; Nov. 1.

Mears, Frank C., Edinburgh, Scotland. Parachute for use with aeroplanes. No. 1,395,722; Nov. 1.
Mehl, Charles F., H. E. Liebler, C. Hall, and S. J. Mobbs, Cleveland, Ohio. Safety device for moving-picture machines. No. 1,395,724; Nov. 1.
Meade, Robert G., Chicago, Ill., assignor to Stanwood Belt Company, Pittsburgh, Pa. Staybelt structure. No. 1,395,290; Nov. 1.
Merli, Carlo, and G. Bertolini, New York, N. Y.; said Bertolini assignor of his entire right to V. Kleinberg, G. Mangiapane, and F. Pumo, New York, N. Y. Machine for stuffing meat and like provisions. No. 1,395,967; Nov. 1.
Metzger, William L., assignor to Detroit Stove Works, Detroit, Mich. Grate. No. 1,395,444; Nov. 1.
Meyer, George M., Berwyn, Ill., assignor, by mesne assignments, to International Harvester Company. Binder-canvas-cutter. No. 1,395,445; Nov. 1.
Meszaros, Helen, McKeesport, Pa. Garment-hanger. No. 1,395,537; Nov. 1.
Metals Research Company. (See Bragg, Gilbert A., assignor.)
Meyer, Alfred F., assignor to Morton Corporation, Morton, Ill. Elevator structure. No. 1,395,985; Nov. 1.
Meyer, Alfred F., assignor to Morton Corporation, Morton, Ill. Elevator. No. 1,395,986; Nov. 1.
Meyer, George W., and C. A. Ross, Cincinnati, Ohio. Adjustable chuck. No. 1,395,849; Nov. 1.
Meyer, George W., and C. A. Ross, Cincinnati, Ohio. Lifting-jack. No. 1,395,850; Nov. 1.
Michaelson, Joseph M., Minneapolis, Minn. Mechanical starter for explosive-engines. No. 1,395,939; Nov. 1.
Miller, Chester D. (See Mason, H. W., and Miller.)
Miller, Delbert A. (See Miller, John R., assignor.)
Miller, Frederick A. (See Harrington, Frank C., assignor.)
Miller, John R., Spokane, assignor of one-half to D. A. Miller, Thornton, Wash. Truck-coupling. No. 1,395,688; Nov. 1.
Miller, Stuart P., Philadelphia, Pa., assignor to The Barrett Company. Preparing resin. No. 1,395,998; Nov. 1.
Milmoe, Michael J., Glenolden, assignor to W. C. Ritchie & Company, Chicago, Ill. Box-making machine. No. 1,395,442; Nov. 1.
Mills, David, Seattle, Wash. Throttle-pedal. No. 1,395,651; Nov. 1.
Milspaw, Daniel W., Greenville, S. C. Car-door opener. No. 1,395,627; Nov. 1.
Miner, William H. (See O'Connor, John F., assignor.)
Minton, Carl F., Cincinnati, Ohio. Dusting-tool. No. 1,395,510; Nov. 1.
Mitchell, John E., Hill Top, W. Va., assignor of one-half to W. B. Johnson, Clermont, Va. Car-step. No. 1,395,589; Nov. 1.
Moe, Leonidas L., Denver, Colo. Automobile-hotel. No. 1,395,999; Nov. 1.
Mondriut, Michael, Akron, Ohio. Multiple plow. No. 1,395,447; Nov. 1.
Monro, Randolph, assignor to W. Kops, New York, N. Y. Gas-mask. No. 1,395,759; Nov. 1.
Monro, Randolph, assignor to W. Kops, New York, N. Y. Gas-mask. No. 1,395,760; Nov. 1.
Monro, Randolph, and E. Klauber, assignors to W. Kops, New York, N. Y. Gas-mask. No. 1,395,761; Nov. 1.
Moore, Floyd S. (See Cline, Robert W., assignor.)
Moore, Hugh K., assignor to Berlin Mills Company, Berlin, N. H. Machine for testing lubricating-oil. No. 1,395,448; Nov. 1.
Morden Frog & Crossing Works. (See Gibbs, Benedict T., Jr., assignor.)
Morgan, Salmon J., Albany, Wis. Hacksaw-frame. No. 1,395,511; Nov. 1.
Morin, Henry V., Poughkeepsie, N. Y. Tool-holder. No. 1,395,859; Nov. 1.
Morton Corporation. (See Meyer, Alfred F., assignor.)
Moseley, James F., Manchester, England. Insecticide. No. 1,395,860; Nov. 1.
Moses, William E., Watertown, assignor to Gray & Davis, Inc., Cambridge, Mass. Ignition apparatus. No. 1,395,590; Nov. 1.
Mott, Lucifer J., New York, N. Y. Engraving-machine. No. 1,395,861; Nov. 1.
Motter, Andrew, Buffalo, N. Y. Scouring device. No. 1,395,652; Nov. 1.
Mottiau, August J. (See Kennedy, W. A., and Mottiau.)
Mount, Lambton L., St. John's Wood, London, England. Glass-melting furnace. No. 1,395,501; Nov. 1.
Mowry, David C., Geneva, Nebr. Road-working machine. No. 1,395,450; Nov. 1.
Mowry, Edward, Sterling, Ill., assignor to International Harvester Company. Caster-wheel. No. 1,395,449; Nov. 1.
Muff, Adam, Buffalo, N. Y. Manufacture of wing-nut blanks. No. 1,395,763; Nov. 1.
Mulbarth, James A., assignor of one-third to H. D. Delkeskamp, St. Louis, Mo. Bath brush and sprayer. No. 1,395,762; Nov. 1.
Mullikin, Levin H., Easton, Md. Braking mechanism for talking-machine motors. No. 1,395,725; Nov. 1.
Mullikin, Levin H., Easton, Md. Brake mechanism for talking-machine motors. No. 1,395,726; Nov. 1.
Murphy, George L., Marion, Calo. Extension swinging stacker. No. 1,395,513; Nov. 1.
Murray, John, London, England. Automatic stack-feed. No. 1,395,962; Nov. 1.
Neil, James. (See Mehl, C. F., Liebler, Neil, and Mobbs.)
National Malleable Castings Company, The. (See Sandley, Arthur J., assignor.)
National Motor Car & Vehicle Corporation. (See Wall, William G., assignor.)
National Ura Bag Co. (See Hirschhorn, Benjamin, assignor.)
Nelson, John F., New York, N. Y. Sponges. No. 1,395,813; Nov. 1.
Nesbit, F. A. (See Brimm, Andrew C., assignor.)
Neuser, Walther, Berlin, assignor to Firm Siemens & Halske Aktiengesellschaft, Berlin-Siemensstadt, Germany. Pressure-measuring instrument. No. 1,395,895; Nov. 1.
Nidermaier, Joseph O., Wor, W. Va. Automobile loading device. No. 1,395,970; Nov. 1.
Noble, Edward J. (See Mehl, C. F., Liebler, Neil, and Nobbe.)
North-German Electricity Syndicate Aktiengesellschaft. (See Seelmann, Emil, assignor.)
North East Electric Company. (See Hallock, Edward A., assignor.)
North East Electric Company. (See Lee, Earle P., assignor.)
Northover, Harry R., Winnipeg, Manitoba, Canada. Machine for filling cartridge-magazines, cartridge-belts, cartridge-clips, and the like. No. 1,395,629; Nov. 1.
Norton, A. O., Inc. (See Germany, Frank L., assignor.)
Oberst, Frank, Glendale, H. E., assignor to Western Phonograph Corporation. Talking-support. No. 1,395,989; Nov. 1.
Ocean Bond Co. (See Rogers, Allen, assignor.)
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction clutch-operating mechanism. No. 1,395,684; Nov. 1.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction clutch-operating mechanism. No. 1,395,683; Nov. 1.
Oldermatt, Clarence W., San Francisco, Calif. Packing-table. No. 1,395,787; Nov. 1.
Odom, Daniel E., Hendersonville, N. C. Overwinding-preventer. No. 1,395,592; Nov. 1.
Oil Well Supply Company. (See Mack, Patrick H., assignor.)
Okell, James H., assignor to Okell Well Machinery Company, Los Angeles, Calif. Pitman construction. No. 1,395,971; Nov. 1.
Okell Well Machinery Company. (See Okell, James H., assignor.)
Ohmannsh, John M., Newark, N. J. Stage. No. 1,395,893; Nov. 1.
O'Leary, Marguerite V. (See O'Leary, William J., assignor.)
O'Leary, William J., assignor to M. V. O'Leary, Montreal, Quebec, Canada. Clutch for motors and the like. No. 1,395,899; Nov. 1.
Orance, Norman A., Pittsburgh, Pa. Barrel-chaf. No. 1,395,728; Nov. 1.
Osterhaus, William C., Chicago, Ill. Universal tapping-machine. No. 1,395,909; Nov. 1.
Osterstrom, Bruno E., Stockholm, Sweden. Brick wall. No. 1,395,764; Nov. 1.
Owen, Ole A., Bradley Beach, N. J. Motion-picture stage illusion. No. 1,395,518; Nov. 1.
Pagelsen, Edward N., Detroit, Mich. Non-slip device for vehicle-wheels. No. 1,395,594; Nov. 1.
Palmer, Charles S., Pittsburgh, Pa. Composition for protective coatings. No. 1,395,661; Nov. 1.
Palmer, Harry E., et al. (See Hansen, William N., assignor.)
Pape, Herman G., New York, N. Y. Bar-appliance mounting. No. 1,395,844; Nov. 1.
Parker, John J., Bridgeport, Conn. Power device for window-operators. No. 1,395,534; Nov. 1.
Parker, John J., Bridgeport, Conn. Power for window-operators. No. 1,395,535; Nov. 1.
Parnall, George G. (See Bolas, Harold, assignor.)
Parnes, Morris, New York, N. Y. Liquid-supplying apparatus. No. 1,395,510; Nov. 1.
Partington, Charles, assignor to The Cincinnati Frog & Switch Company, Cincinnati, Ohio. Switch-stand. No. 1,395,965; Nov. 1.
Patterson, David C., Omaha, Nebr. Core for hollow walls. No. 1,395,452; Nov. 1.
Paulson, Louis, assignor to American Electric Tool Company, Incorporated, Petersburg, Va. Non-arcing commutating switch device. No. 1,395,990; Nov. 1.
Payne, Edgar, et al. (See De Leary, E. H., and Payne.)
Peacock, Robert A. (See Bacon, C. R., and Peacock.)
Pearce, John S., Vancouver, British Columbia, Canada. Process and apparatus for producing charcoal and like materials. No. 1,395,806; Nov. 1.
Pearce, John S., Vancouver, British Columbia, Canada. Wood distillation. No. 1,395,807; Nov. 1.
Peck, Wilbur H., Los Angeles, Calif. Centrifugal concentrator. No. 1,395,517; Nov. 1.
Pedersen, John D., Jackson, Wyo. Firearm. No. 1,395,721; Nov. 1.
Pedersen, John D., Jackson, Wyo. Firearm. No. 1,395,722; Nov. 1.
Peirce, Ralph G., Hinsdale, Ill. Fastening device. No. 1,395,455; Nov. 1.
Perkins, James O., Auburn, N. Y., assignor to Hamad Shoe Machinery Company, Wall-scouring and beveling machine. No. 1,395,764; Nov. 1.
Perry, Alice, administratrix. (See Clay, Anson E.)

Peters, William A., assignor to International Patent Licensing Corporation, Chicago, Ill. Photographic camera. No. 1,395,293; Nov. 1.
Peth, Herman W., Rochester, N. Y. Pressing-iron. No. 1,395,355; Nov. 1.
Petrovics, Fred J. (See Deam, Henry D., assignor.)
Pettersson, Bengt A. (See Blomberg, K. G., and Pettersson.)
Pettit, John H., Great Falls, Mont. Auto-spring oiler. No. 1,395,518; Nov. 1.
Pfefferle, Raymond O., Madelia, Minn. Box or receptacle. No. 1,395,594; Nov. 1.
Pfeiffer, William G., St. Louis, Mo. Mud-hook. No. 1,395,863; Nov. 1.
Phillips, Ellis J. G., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Fire-door. No. 1,395,705; Nov. 1.
Pickard, Arthur G., and F. Slinger, assignors to Thornton-Pickard Manufacturing Company, Limited, Altrincham, Chester, England. Photographic camera. No. 1,395,660; Nov. 1.
Pierce, Raymond T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Measuring instrument. No. 1,395,294; Nov. 1.
Pierson, Hubert T., Hoquiam, Wash. Guard for drinkspigot. No. 1,395,856; Nov. 1.
Pixley, Edward C., Sullivan, Ohio. Shade-bracket. No. 1,395,970; Nov. 1.
Plateau, Hermann, Hamburg, Germany, assignor to D. R. Rotman, New York, N. Y. Manufacture of articles from proteins. No. 1,395,720; Nov. 1.
Polinkowsky, Lipa, Antwerp, Belgium, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,395,896; Nov. 1.
Pond, Edmund M., Rutland, Vt. Medicated tampon. No. 1,395,295; Nov. 1.
Pors, George V., Cleveland, Ohio. Means for dispensing ice-cream. No. 1,395,654; Nov. 1.
Pors, George V., Cleveland, Ohio. Means for feeding and cutting ice-cream. No. 1,395,655; Nov. 1.
Possinger, William E., and G. T. Cunningham, Twin, Wash. Signal-control mechanism. No. 1,395,767; Nov. 1.
Potter's Asbestos Company. (See Tillotson, Edward, assignor.)
Pountney, Frank, Birmingham, assignor to Rudge-Whitworth Limited, Coventry, Warwick, England. Means for gaging the diameters of internal annular grooves. No. 1,395,769; Nov. 1.
Powell, James A. (See Earhart, R. N., and Powell.)
Precision Truing Machine and Tool Company, The. (See Connors, Edward R., assignor.)
Prendergast, Harold Y., New York, N. Y. Stylus-bar mounting for sound-boxes. No. 1,395,972; Nov. 1.
Prestwich, Sydney. (See Braley, C. L., and Prestwich.)
Price, William K., Selah, Wash. Fruit-sizing machine. (Reissue.) No. 13,216; Nov. 1.
Prosser, Walter E., Louisville, Ky., and A. E. Higgins, Buffalo, N. Y. Portable steam-generator. No. 1,395,973; Nov. 1.
Putnam, Alden L., Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del. Manufacturing disk wheels. No. 1,395,857; Nov. 1.
Pyrene Manufacturing Company. (See MacGregor, Peter G., assignor.)
Pytlak, Stanly, McMechen, W. Va. Wall-papering machine. No. 1,395,519; Nov. 1.
Quill, Charles J., San Francisco, Calif., assignor of one-half to W. M. Filben, St. Paul, Minn. Alternating-current rectifier. No. 1,395,520; Nov. 1.
Quill, Charles J., San Francisco, Calif., assignor of one-half to W. M. Filben, St. Paul, Minn. Alternating-current rectifier. No. 1,395,521; Nov. 1.
Quinn, Elmer, Philadelphia, Pa. Tire-vise. No. 1,395,296; Nov. 1.
Radio Corporation of America. (See Round, Henry J., assignor.)
Radocaj, Paul, et al. (See Libenschek, Rudolf, assignor.)
Randall, Richard H., and A. Leighton, Brockton, Mass. Resilient yoke connection. No. 1,395,971; Nov. 1.
Ranken, Francis, Kingsway, London, England. Bomb. No. 1,395,769; Nov. 1.
Reardon, Fred A., Bridgeport, Conn. Curtain-fixture. No. 1,395,297; Nov. 1.
Rector, Harlan S., Chicago, Ill. Pneumatic tire. No. 1,395,770; Nov. 1.
Redfield, Willis B., Downey, Calif. Shock-absorber. No. 1,395,974; Nov. 1.
Reece Button Hole Machine Company, The. (See Hagelstein, Christian H. T., assignor.)
Regan, Michael C., Washington, D. C. Portable safe. No. 1,395,771; Nov. 1.
Regnoni, Romualdo. (See Frattoli, E., Castelli, and Regnoni.)
Reichenstein, David, Zurich, Switzerland. Rust-preventing process. No. 1,395,740; Nov. 1.
Renton Heel Company. (See Curtis, Richard, assignor.)
Republic Tool Products Company, The. (See Black, Charles F., assignor.)
Respess, John B., Washington, N. C. Rail-fastener. No. 1,395,596; Nov. 1.
Rhodes, Roy J. (See Gillis, J. B., Rhodes, and Lowe.)
Rice, Nathan F., Chicago, Ill. Valve-pad for pneumatic tires. No. 1,395,731; Nov. 1.
Richards-Wilcox Manufacturing Company. (See Phillips, Ellis J. G., assignor.)
Richardson, Edward L., Brooklyn, N. Y. Suspended trousers-protector. No. 1,395,772; Nov. 1.
Richardson, Thomas D., Cheyenne, Wyo. Nail-extractor. No. 1,395,823; Nov. 1.
Richie, David R., Lansdowne, Pa., assignor to S. L. Allen & Co., Inc. Tractive lug. No. 1,395,997; Nov. 1.
Richman, Walter H., Philadelphia, Pa. Container. No. 1,395,596; Nov. 1.
Rigby, George E., Manchester, England. Frame of motor-cycles. No. 1,395,856; Nov. 1.
Riley, James W., Los Angeles, Calif. Sanitary vending-tray for eatables. No. 1,395,975; Nov. 1.
Riley, James W., Los Angeles, Calif. Sanitary food-cover. No. 1,395,976; Nov. 1.
Ripley, Charles T., Chicago, Ill. Apparatus for manufacturing resilient packing or filling material. No. 1,395,299; Nov. 1.
Ritchie, W. C., & Company. (See Milmoe, Michael J., assignor.)
Roadhouse, Robert, Des Plaines, assignor of one-half to T. E. McCaig, Chicago, Ill. Enameling ware. No. 1,395,722; Nov. 1.
Roberts, Albert O., Philadelphia, Pa. Condiment-holder. No. 1,395,507; Nov. 1.
Rockey, Clarence H., Chicago, Ill. Floor-board clamp for automobiles. No. 1,395,850; Nov. 1.
Roessler & Hasslacher Chemical Company, The. (See Liebknecht, Otto, assignor.)
Rogers, Allen, Brooklyn, assignor to Ocean Bond Co., Inc., New York, N. Y. Treating shark-skins and the like. No. 1,395,775; Nov. 1.
Rogers, Erastus W., Durham, N. C. Attachment for stoves. No. 1,395,523; Nov. 1.
Rogers, Erastus W., Durham, N. C. Oven. No. 1,395,524; Nov. 1.
Rogers, James H., Hyattsville, Md. Radiosignaling system. No. 1,395,454; Nov. 1.
Rolup Screen Company. (See Guggenberger, Leopold, assignor.)
Römer, Adolf, Stuttgart, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Tanning. No. 1,395,733; Nov. 1.
Roney, John H. (See Marstellar, Sylvester A., assignor.)
Roos, Charles A. (See Meyer, G. W., and Roos.)
Root, Ralph R., assignor to The Globe Machine & Stamping Company, Cleveland, Ohio. Wheel. No. 1,395,784; Nov. 1.
Rothmeyer, Charles, Aulnay-sous-Bois, France. Leader-magazine frame for photographic cameras. No. 1,395,900; Nov. 1.
Rotman, D. R. (See Plauson, Hermann, assignor.)
Rottman, George, New York, N. Y. Trousers. No. 1,395,361; Nov. 1.
Round, Henry J., London, England, assignor to Radio Corporation of America, New York, N. Y. Wireless signaling apparatus. No. 1,395,967; Nov. 1.
Roy, Edward H., Louisville, Ky. Refrigerator. No. 1,395,598; Nov. 1.
Rubeam, Charles F., Cleveland, Ohio. Vehicle-wheel. No. 1,395,362; Nov. 1.
Rubeam, Charles F., Cleveland, Ohio. Vehicle-wheel. No. 1,395,363; Nov. 1.
Rudge-Whitworth Limited. (See Pountney, Frank, assignor.)
Ryder, David E., Newburgh, N. Y. Corn-cutting device. No. 1,395,928; Nov. 1.
Saal, Henry G. (See Stafford, Frederick S., assignor.)
Sadtler, Samuel S. (See Bassett, H. P., and Sadtler.)
Sagerman, Frederick, Canton, Ohio. Cloak and robe lock. No. 1,395,525; Nov. 1.
Samuel, Barnett & Sons. (See Samuel, Wilfred S., assignor.)
Samuel, Wilfred S., assignor to Barnett, Samuel & Sons, Limited, London, England. Talking-machine. No. 1,395,364; Nov. 1.
Sanders, George W., township 66, Worth county, Mo. Scoop-board and end-gate. No. 1,395,300; Nov. 1.
Sanford, Thomas H., assignor of one-fourth to L. B. Coley, Alexander City, Ala. Brake-shoe. No. 1,395,865; Nov. 1.
Satterstrom, Ferdinand, Hastings, assignor to Magnetic Power Transmitter Company, Faribault, Minn. Electrical actuating means for typewriter type-bars and other devices. No. 1,395,599; Nov. 1.
Satterstrom, Ferdinand, Hastings, assignor to Magnetic Power Transmitter Company, Faribault, Minn. Electrical actuating means for typewriter type-bars and other devices. No. 1,395,600; Nov. 1.
Sawyer, Harry, assignor to Shaw Electric Crane Company, Muskegan, Mich. Hoisting apparatus. No. 1,395,735; Nov. 1.
Sawyer, Walter H., Philadelphia, and A. C. Boyd, Lansdowne, Pa. Check holder and notcher. No. 1,395,736; Nov. 1.
Schaeder, Peter A., Greensburg, Pa. Spark-intensifier. No. 1,395,737; Nov. 1.
Schafer, Edward A., Wheeling, W. Va. Belt and retainer therefor. No. 1,395,526; Nov. 1.
Schafer, John P. (See Wilson, R. H., and Schafer.)
Schärer, Arnold, New York, N. Y. Hair-waver. No. 1,395,774; Nov. 1.
Schechter, Bernard, St. Louis, Mo. Slack-adjuster. No. 1,395,738; Nov. 1.

Schladitzka, Charles L., Fountain City, Wis. Conveyer. No. 1,395,789; Nov. 1.
Schlemmer, Edward O., and H. Schneider, St. Louis, Mo. Shoe-heel. No. 1,395,740; Nov. 1.
Schlutz, Henry, Pittsburgh, assignor of two-fifths to J. L. Knoedler, Optima, Pa. Wrench. No. 1,395,650; Nov. 1.
Schmidt, George A., Chicago, Ill. Pleasure-railway. No. 1,395,657; Nov. 1.
Schmidt, Ludwig, Arth, assignor to M. Artini, Basel, Switzerland. Separating fatty acids from vegetable and animal fats. No. 1,395,905; Nov. 1.
Schmitt, John O. (See Graf, Walter W., assignor.)
Schnedler, Maxwell P. (See Catello, Patrick J., assignor.)
Schneider, Harry. (See Schlemmer, E. O., and Schneider.)
Scholes, Daniel E., assignor to Aermotor Company, Chicago, Ill. Windmill. No. 1,395,601; Nov. 1.
Scholtz, John, Philadelphia, assignor of one-third to S. A. Brosa, Overland, and one-third to G. W. Sunday, Philadelphia, Pa. Gas-engine. No. 1,395,658; Nov. 1.
Schreiber, John H., St. Louis, Mo. Piston-ring. No. 1,395,586; Nov. 1.
Schroder, Hermann, New York, N. Y. Resonance-chamber for sound-reproducing apparatus. No. 1,395,662; Nov. 1.
Scoggan, Richard R., Jeffersonville, Ind., assignor to Kentucky Switch & Signal Co., Inc., St. Matthews, Ky. Automatic electrically-controlled track-switch. No. 1,395,572; Nov. 1.
Scoggan, Richard R., Jeffersonville, Ind., assignor to Kentucky Switch & Signal Co., Inc., St. Matthews, Ky. Trolley-wire contactor. No. 1,395,573; Nov. 1.
Scott, John E., Lynn, Mass., assignor to Hamel Shoe Machinery Company. Machine for turning shoes. No. 1,395,741; Nov. 1.
Scudder, Frederick J. (See Stearn, F. A., and Scudder.)
Searle, Elbert H., Grimes, Calif. Breech-loading firearm. No. 1,395,455; Nov. 1.
Sechrist, Albert, Denver, Colo. Combined pan-handle and pan-support. No. 1,395,901; Nov. 1.
Seese, Samuel R., Vanderbilt, assignor to H. M. Kephart, Connellsville, Pa. Display-case for license-certificates. No. 1,395,999; Nov. 1.
Seigle, William E., New York, N. Y. Brake or clutch band lining. No. 1,395,743; Nov. 1.
Seigle, William E., New York, N. Y. Impregnating porous or bibulous materials and the product thereof. No. 1,395,744; Nov. 1.
Seigle, William E., New York, N. Y. Machine for making pulp tubes. No. 1,395,742; Nov. 1.
Sell, Frank A., Portland, Oreg. Waffle-machine. No. 1,395,930; Nov. 1.
Shafer, Fay E., assignor to Shafer Safety Auto Post Company, St. Louis, Mo. Dirigible headlight. No. 1,395,745; Nov. 1.
Shafer Safety Auto Post Company. (See Shafer, Fay E., assignor.)
Shalkop, Isaac C., Philadelphia, Pa., assignor to The De Luxe Brush Company, Wilmington, Del. Dispensing device. No. 1,395,902; Nov. 1.
Sharp, Lee C., Plattsmouth, Nebr., assignor to Alfa-Maiwi Manufacturing Company, Wilmington, Del. Animal food composition and preparing same. No. 1,395,746; Nov. 1.
Shaw Electric Crane Company. (See Sawyer, Harry, assignor.)
Sheehan, Walter H., Steubenville, and J. W. Eckard, Mingo Junction, Ohio. Latch for doors and the like. No. 1,395,527; Nov. 1.
Sherwood, Howard M., Vandalia, Ohio. Drag-line scoop-bucket. No. 1,395,988; Nov. 1.
Shiek, Daniel W. (See Erickson, A. F., and Shiek.)
Shields, Carl, et al. (See Lawson, Swan J., assignor.)
Short, Edward C., St. Paul, Minn. Storm-window opener and closer. No. 1,395,803; Nov. 1.
Silva, Frank L., Wailuku, Hawaii. Socket-wrench. No. 1,395,528; Nov. 1.
Siemens & Halske Aktiengesellschaft. (See Nernst, Walther, assignor.)
Singer Manufacturing Company, The. (See Hemleb, Martin, assignor.)
Skarl, Henry, Cleveland, Ohio. Piston-packing. No. 1,395,603; Nov. 1.
Skinner, Stephen G., Wilmette, Ill. Windshield-cleaner. No. 1,395,604; Nov. 1.
Slepian, Joseph, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrolytic condenser. No. 1,395,804; Nov. 1.
Slepian, Joseph, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrolytic condenser. No. 1,395,305; Nov. 1.
Slinger, Frank. (See Pickard, A. G., and Slinger.)
Smith, Charles F. and W. H., Brooklyn, N. Y. Electric condenser. No. 1,395,931; Nov. 1.
Smith, Oliver W. et al. (See Blundell, William C., assignor.)
Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Shank and bit punch. No. 1,395,747; Nov. 1.
Smith, William B., Niagara Falls, N. Y., assignor to American Chain Company, Inc. Chain-tightening lever. No. 1,395,606; Nov. 1.
Smith, William H. (See Smith, Charles F. and W. H.)
Snelling, Walter O., Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y. Explosive and manufacturing same. No. 1,395,775; Nov. 1.
Snelling, Walter O., Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y. Treating nucleid organic nitrates and the like. No. 1,395,776; Nov. 1.
Soderstrom, Carl E., Manhagen, Mich. Emery-wheel dresser. No. 1,395,906; Nov. 1.
Sonora Phonograph Corporation. (See Oberst, Frank, assignor.)
Sorenson, Charles E., Dearborn, assignor to Henry Ford & Son Inc., Detroit, Mich. Producing ball-bearing structures. No. 1,395,977; Nov. 1.
Southern Ohio Tin Can Company, The. (See Clark, H. L., and Sower, assignors.)
Spencer, James H. (See Clark, H. L., and Sower.)
Sperry, Herbert R., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Lug for traction-wheels. No. 1,395,967; Nov. 1.
Spohrer, Gregory J., East Orange, N. J. Dispenser for compressed air. No. 1,395,995; Nov. 1.
Stafford, Frederick E., assignor to H. G. Seal, Chicago, Ill. Wheel. No. 1,395,456; Nov. 1.
Standard Oil Company of New York. (See Folant, William S., assignor.)
Stanchfield, Cleo B., Boone, Iowa. Luggage-carrier for automobiles. No. 1,395,451; Nov. 1.
Stanley, Theodore D., assignor to Leland Lock Company, Detroit, Mich. Steering-wheel lock. No. 1,395,606; Nov. 1.
Stanley, Theodore D., assignor to Leland Lock Company, Detroit, Mich. Lock for steering-wheels. No. 1,395,609; Nov. 1.
Stannard, Joseph H., Sr., Columbia, S. C. Boiler-furnace. No. 1,395,610; Nov. 1.
Starling, James E., North Tonawanda, N. Y. Threshing-machine. No. 1,395,611; Nov. 1.
Stauda, Edwin G., Minneapolis, Minn. Gas-engine governor. No. 1,395,963; Nov. 1.
Stearn, Franklin A., Paterson, N. J., and F. J. Scudder, Long Island, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,395,977; Nov. 1.
Steatite Electric Products Corporation. (See Finisio, Thomas D., assignor.)
Sterling, Wilbur F., and V. H. Grotlisch, Washington, D. C., and F. P. Veitch, College Park, Md. Making varnish materials. No. 1,395,874; Nov. 1.
Stewart-Warner Speedometer Corporation. (See Burton, Charles E., assignor.)
Stewart, William J., Philadelphia, Pa. Landing stage or station for aircraft. No. 1,395,612; Nov. 1.
Stickle, Frederick A., assignor, by mesne assignments, to The Lunken Window Company, Cincinnati, Ohio. Wire-screen-stretching device. No. 1,395,613; Nov. 1.
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,395,468; Nov. 1.
Stidham, Charles L., Gravois Mills, assignor of one-half to W. Well, Versailles, Mo. Wrench. No. 1,395,983; Nov. 1.
Stock, Robert, Sandusky, Ohio. Pneumatic tire. No. 1,395,614; Nov. 1.
Stock, Robert, Sandusky, Ohio. Vehicle-wheel. No. 1,395,615; Nov. 1.
Stockton, Frank W., Pittsburgh, Pa. Food product. No. 1,395,894; Nov. 1.
Stoddard, Harry A., and F. E. Callahan, Columbus, Ohio; said Stoddard assignor to said Callahan. Vegetable-cutter. No. 1,395,309; Nov. 1.
Storke, John W. (See Wilkins, Thomas M., assignor.)
Stott, William, Bacchaus, England. Stop-motion for doubling-frames. No. 1,395,529; Nov. 1.
Strane, Archibald J., Tamaqua, assignor to Atlas Powder Company, Philadelphia, Pa. Press. No. 1,395,580; Nov. 1.
Strobeneer, Otto, Creighton, Nebr. Air-hose support. No. 1,395,616; Nov. 1.
Stroh, Henry N., Pittsburgh, Pa. Method and apparatus for calibrating measuring-instrument transformers. No. 1,395,906; Nov. 1.
Stuart, Donald R., Harlan, Iowa. Feed-trough. No. 1,395,907; Nov. 1.
Stuart, Orstal, Liverpool, England. Bulkhead-door. No. 1,395,777; Nov. 1.
Stubbs, William, Sheffield, England. Apparatus for twisting metal bars. No. 1,395,617; Nov. 1.
Sullivan Machinery Company. (See Holmes, Morris P., assignor.)
Sunday, Gustave W., et al. (See Scholtz, John, assignor.)
Superior Manufacturing Company. (See Woock, Walter E., H. J., and E. M., assignors.)
Surbeck, F. Baltis, Lewiston, Idaho. Humidifier. No. 1,395,778; Nov. 1.
Sweeney, Howard L., Oakland, Calif. Automatically-actuated oil-burner. No. 1,395,531; Nov. 1.
Sykes, Martin F., Lawrence, Mass. Staging-support. No. 1,395,908; Nov. 1.
Szalay, Joseph, Vicksburg, Miss. Vessel-raising device. No. 1,395,575; Nov. 1.
Taber, Percy E. and S. M., deceased, Berkeley, Calif.; E. Taber, administratrix. Tire-dressing wheel. No. 1,395,909; Nov. 1.
Taber, Rose, administratrix. (See Taber, Percy E. and S. M.)
Taber, Samuel M., deceased. (See Taber, Percy E. and S. M.)

Tate, Peel J., Big Pine, Calif. Plow and pulverizer. No. 1,395,370; Nov. 1.
Taylor, John W., Edwardsville, Kans. Convertible harrow and drag. No. 1,395,459; Nov. 1.
Teich, Alexander O., Chicago, Ill. Oil-burner. No. 1,395,748; Nov. 1.
Theobald, Harry C., Gibson, N. Mex. Foot-operated accelerator for automobiles. No. 1,395,571; Nov. 1.
Thompson, Frank H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Last-measuring machine. No. 1,395,310; Nov. 1.
Thompson, John T., Newport, Ky., assignor to Auto-Ordnance Corporation, New York, N. Y. Double-barreled gun. No. 1,395,460; Nov. 1.
Thorn, Howard W., assignor to United States Metals Refining Co., Carteret, N. J. Loading and unloading device. No. 1,395,749; Nov. 1.
Thornton-Pickard Manufacturing Company. (See Pickard, A. G., and Slinger, assignors.)
Thresher, Paul B., assignor to William Warnock Company, Sioux City, Iowa. Stock-waterer. No. 1,395,750; Nov. 1.
Thrasher, William N., Savannah, Ga. Brace. No. 1,395,576; Nov. 1.
Tilden, Elbert E., West Concord, Minn. Theft-preventing attachment for steering-wheels. No. 1,395,532; Nov. 1.
Tillotson, Edward, assignor to Potter's Asbestos Company Limited, Rochdale, England. Carding-engine. No. 1,395,577; Nov. 1.
Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Lens attachment. No. 1,395,311; Nov. 1.
Timken Roller Bearing Company. (See Buckwalter, Tracy V., assignor.)
Tooker, Nathaniel L., Brooklyn, N. Y. Mail-signing book. No. 1,395,372; Nov. 1.
Toscan, James B., Jamestown, N. Y. Gas-stove. No. 1,395,312; Nov. 1.
Trapasso, William, Duluth, Minn. Dumb-bell. No. 1,395,313; Nov. 1.
Trojan Powder Company. (See Snelling, Walter O., assignor.)
Tubbergen, Johannes H., Afton, Calif. Auto warning-signal. No. 1,395,461; Nov. 1.
Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Electric regulator. No. 1,395,779; Nov. 1.
Turt, Gustav, Meiningen, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Machine for producing small strips of fibrous material. No. 1,395,751; Nov. 1.
Turney, George W., Rome, N. Y. Radiator-tube and producing same. No. 1,395,618; Nov. 1.
Tuttle, Orley C., Old Forge, N. Y. Fish-bait. No. 1,395,533; Nov. 1.
Tvedt, Thomas T., City Island, N. Y. Adjustable tiller. No. 1,395,534; Nov. 1.
U. S. Light & Heat Corporation. (See Louden, Warren P., assignor.)
U. S. Light & Heat Corporation. (See Turbayne, William A., assignor.)
U. S. Slicing Machine Company. (See Van Berkle, Cornelis F. M., assignor.)
Underwood Typewriter Company. (See Kurowski, Alfred G. F., assignor.)
Underwood Typewriter Company. (See Stickney, Burnham C., assignor.)
United Shoe Machinery Corporation. (See Furber, Frederick M., assignor.)
United Shoe Machinery Corporation. (See Glass, Perley E., assignor.)
United Shoe Machinery Corporation. (See Loomer, Henry M., assignor.)
United Shoe Machinery Corporation. (See Thompson, Frank H., assignor.)
United States Hoffman Machinery Company. (See Chase, Herschel E., assignor.)
United States Metals Refining Co. (See Thorn, Howard W., assignor.)
Upton, Henry J., West Medford, assignor to Vaughn Upton Company, Boston, Mass. Fountain-pen. No. 1,395,878; Nov. 1.
Vacuum Carburetor Company, The. (See En Earl, William J., assignor.)
Van Berkel, Cornelis F. M., assignor to U. S. Slicing Machine Company, Laporte, Ind. Holder for slicing-machines. No. 1,395,980; Nov. 1.
Vandertip, Louis C., Hibbart, Ind. Vehicle steering mechanism. No. 1,395,314; Nov. 1.
Vassallo, Anthony, Newark, N. J., assignor, by mesne assignments, to The Harriman National Bank of the City of New York, trustee. Automatic release and brake mechanism for talking-machines. No. 1,395,752; Nov. 1.
Vaughn-Upton Company. (See Upton, Henry J., assignor.)
Veitch, Fletcher P. (See Sterling, W. F., Grotlisch, and Veitch.)
Voight, Henry G., New Haven, Conn. Luggage-carrier. No. 1,395,315; Nov. 1.
Wahl Company, The. (See Wahl, John C., assignor.)
Wahl, John C., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Chasing-machine. No. 1,395,316; Nov. 1.
Walter, Frank L., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Forming-machine. No. 1,395,535; Nov. 1.
Walker, Frank J., Wichita, Kans. Shoe-heel. No. 1,395,535; Nov. 1.
Walker, George E., Prestwich, S. H. Walker, Southport, and F. Hewitt, Radcliffe, England. Machine for the production of metal tags such as used on laces. No. 1,395,536; Nov. 1.
Walker, George L., New York, N. Y., assignor to Air Reduction Company, Inc. Combination-blowpipe. No. 1,395,537; Nov. 1.
Walker, Samuel H. (See Walker, George E. and S. H., and Hewitt.)
Wall, William G., assignor to National Motor Car & Vehicle Corporation, Indianapolis, Ind. Body construction. No. 1,395,538; Nov. 1.
Wallace, Tirsah, Topeka, Kans. Mattress. No. 1,395,879; Nov. 1.
Walsh, Antanas, Shelton, Conn. Door-adjuster. No. 1,395,539; Nov. 1.
Wanders, Hans H., Brookline, Mass. Milling-machine. No. 1,395,573; Nov. 1.
Ward, Charles A., Mount Vernon, N. Y. Brake-operating mechanism. No. 1,395,540; Nov. 1.
Ward, Daniel W., Memphis, Tenn. Commutator-brush-reseating tool. No. 1,395,880; Nov. 1.
Ware, William P., Alderson, W. Va. Combined tie-plate and rail-anchor. No. 1,395,691; Nov. 1.
Warner, Leroy J., North Chicago, Ill. Printing-press inking-roller truck. No. 1,395,317; Nov. 1.
Warner, Leroy J., North Chicago, Ill. Wheel for printing-press inking-roller trucks. No. 1,395,318; Nov. 1.
Warnock, William, Company. (See Thrasher, Paul B., assignor.)
Waterman, Herbert A., Liberal, Mo. Bale-fork. No. 1,395,592; Nov. 1.
Wattel, Achille L. F., Sevres, France. Automobile-locking apparatus. No. 1,395,881; Nov. 1.
Wayne Oil Tank and Pump Company. (See Baker, Linneus B., assignor.)
Webb, Fred E., Syracuse, N. Y. Self-closing stanchion. No. 1,395,882; Nov. 1.
Webster, Edward T., Milwaukee, Wis. Drinking-fountain. No. 1,395,374; Nov. 1.
Webster Electric Company. (See Kleckner, Arthur C., assignor.)
Webster, Henry, Newport, Ky. Kiln for burning any and all sorts of clay products, glazed ware, and pottery. No. 1,395,462; Nov. 1.
Wehle, Louis A., Buffalo, N. Y. Apparatus for use in preparing liquid or semiliquid materials. No. 1,395,753; Nov. 1.
Werneke, Oscar E., St. Paul, Minn. Radiator. No. 1,395,883; Nov. 1.
West, Frank A., Newburg, Me. Adjustable pulley. No. 1,395,884; Nov. 1.
Western Electric Company. (See Clement, Lewis M., assignor.)
Western Electric Company. (See Polinkowsky, Lipa, assignor.)
Western Electric Company. (See Stearn, F. A., and Scudder, assignors.)
Western Electric Company. (See Wilson, R. H., and Schafer, assignors.)
Western Wheeled Scraper Company. (See Benbow, James D., assignor.)
Westinghouse Air Spring Company, The. (See Liebau, Richard, assignor.)
Westinghouse Electric & Manufacturing Company. (See Aalborg, Christian, assignor.)
Westinghouse Electric and Manufacturing Company. (See Chubb, Lewis W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Ehrhart, R. N., and Powell, assignors.)
Westinghouse Electric and Manufacturing Company. (See Hague, Floyd T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hellmund, Rudolf E., assignor.)
Westinghouse Electric & Manufacturing Company. (See McCarty, Roy A., assignor.)
Westinghouse Electric & Manufacturing Company. (See MacNeill, John B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Mardis, Paul L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Pierce, Raymond T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)
Weidlein, Luther B. (See Kling, F. E., and Weidlein.)
Weizmann, Charles, Kensington, and D. A. Legg, Clapham Common, London, England. Manufacture of hydrocarbons. No. 1,395,620; Nov. 1.
Well, William. (See Stidham, Charles L., assignor.)
Wheatley, William T., Detroit, Mich. Sign. No. 1,395,621; Nov. 1.
Wheeler, Orville, Waverly, Iowa. Spring-link. No. 1,395,780; Nov. 1.
Wherley, Henry R., York, Pa. Railway-tie. No. 1,395,541; Nov. 1.
Whisler, Ralph H., assignor to Essex Motors, Detroit, Mich. Spark-plug-coil unit. No. 1,395,375; Nov. 1.

White, Arthur, Shakopee Falls, Wis. Machine for cleaning squash-gourd. No. 1,295,276; Nov. 1.
Whittington, George W., Indianapolis, Ind. Bale-tie machine. No. 1,295,219; Nov. 1.
Wigginton, George P., assignor to Kalamazoo Loose Leaf Binder Company, Kalamazoo, Mich. Loose-sheet device. No. 1,295,754; Nov. 1.
Wight, Thomas, Kansas City, Mo. Absorption-tank. No. 1,295,463; Nov. 1.
Wilcox, John. (See Lux, G. J., and Wilcox.)
Wilkins, Thomas M., East Randolph, N. Y., assignor of one-half to J. W. Storke, Erie, Pa. System for regulating mechanical stokers for steam-generators. No. 1,295,377; Nov. 1.
Wilkinson, Frederick A. (See Julius, G. A., and Wilkinson.)
Will, G. A. (See McCoy, Marion M., assignor.)
Williams, George H., Roanoke, Ill. Automatic motor-vehicle jack device. No. 1,295,543; Nov. 1.
Wilkoff, Alfred H., West New York, N. J., assignor to American Arch Company, New York, N. Y. Fireproof arch and brick therefor. No. 1,295,542; Nov. 1.
Williams, Allen A., assignor to Williams Self Pedal Company, Cedar Rapids, Iowa. Pedal for operating accelerators of automobiles. No. 1,295,781; Nov. 1.
Williams, Emory O., Red Oak, Ga. Feed-cutter. No. 1,295,622; Nov. 1.
Williams, Frank P., Detroit, Mich. Cigar and cigarette holder. No. 1,295,520; Nov. 1.
Williams, Frank P., Detroit, Mich. Attachment for faucets. No. 1,295,521; Nov. 1.
Williams, Frank P., assignor to H. H. Godka Mfg. Co., Detroit, Mich. Faucet attachment. No. 1,295,522; Nov. 1.
Williams Self Pedal Company. (See Williams, Allen A., assignor.)
Wilson, Jay W., Cleveland, Ohio. Truss. No. 1,295,782; Nov. 1.
Wilson, Richard H., Newark, N. J., and J. P. Schafer, Mahwah Hill, assignors to Western Electric Company, Incorporated, New York, N. Y. Secret signaling. No. 1,295,783; Nov. 1.
Winkland, John F., Crafton, Pa. Portioning mechanism. No. 1,295,978; Nov. 1.
Wodack Electric Tool Corporation. (See Lechner, Albert T., assignor.)
Wofford, Clarence, Atlanta, Ga. Marker or indicator. No. 1,295,823; Nov. 1.
Woock, Eric M. (See Woock, Walter R., H. J., and E. M.)
Woock, Herbert J. (See Woock, Walter R., H. J., and E. M.)
Woock, Walter R., H. J., and E. M., assignors to Superior Manufacturing Company, Inc., Lodi, Calif. Double-balance centrifugal pump. No. 1,295,464; Nov. 1.
Wood, Silliah G. (See Wood, Louis C. and E. G.)
Wood, Louis C. and E. G., Rebecca, Ga. Dish-washing machine. No. 1,295,824; Nov. 1.
Wright, Jesse A., Germantown, N. J. Bucket clothes-washer. No. 1,295,753; Nov. 1.
Wyles, William H., North Vancouver, assignor of one-half to H. J. Deeton, Vancouver, British Columbia, Canada. Retriever-cord guide for trolley-poles. No. 1,295,622; Nov. 1.
Yale & Towne Manufacturing Company, The. (See Lewis, Rollin C., assignor.)
Yale & Towne Manufacturing Company, The. (See Maxwell, Maxwell C., assignor.)
Yarnall, Newton L., Accoville, W. Va. Drawbar-straightener. No. 1,295,325; Nov. 1.
Yates, Sheppard H., Hamlet, N. C. Classification-signal for locomotives. No. 1,295,826; Nov. 1.
Yonkers, Joseph G., Brooklyn, N. Y. Airplane. No. 1,295,993; Nov. 1.
York, Glenier F., Salina, Kans. Thread-remover. No. 1,295,986; Nov. 1.
Young, Howard A., Chicago, Ill. Vacuum and boiler feed apparatus. No. 1,295,624; Nov. 1.
Zimmerman, Leo J., Ladysmith, Wis. Attachment for eyeglasses. No. 1,295,626; Nov. 1.
Zoller, Arnold, Berlin, assignor to Argus-Motoren-Gesellschaft m. b. H., Berlin-Reinickendorf-Ost, Germany. Operating mechanism for power-driven vehicles. No. 1,295,827; Nov. 1.
Zygman, Josef, Greenwich, Conn. Automobile-body. No. 1,295,544; Nov. 1.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Adiman, Louis, assignor to Pioneer Braid Manufacturing Co., Inc., New York, N. Y. Braid. No. 59,529; Nov. 1.
Alig, Cassilo M. (See Baird, E., and Alig.)
Anable, Clarence B. (See De Lue, E. A. and Anable.)
Baird, Edna and C. M. Alig, Des Moines, Iowa. Doll. No. 59,533; Nov. 1.
Barchoff, Abraham, New York, N. Y. Handle for trays or some similar articles. Nos. 59,534–5; Nov. 1.
Baron, Alexander, Brooklyn, N. Y. Holster for toy pistols. No. 59,536; Nov. 1.
Becker, Abraham S., Baltimore, Md. Corset. No. 59,537; Nov. 1.
Beiser, Charles W., Brooklyn, N. Y. Toy. No. 59,538; Nov. 1.
Caspary, Paul, Chicago, Ill. Button. No. 59,539; Nov. 1.
Chapman, John G. (See Townsend, George F., assignor.)
Cook, Elizabeth M., Belvedere, Calif. Child's outer garment, such as a play-suit. No. 59,540; Nov. 1.
De Lue, Edgar A., San Francisco, and C. B. Anable, Sacramento, Calif. Lock. No. 59,541; Nov. 1.
De Mille, Cecil B. (See West, Clare, assignor.)
Dodge, Frank W., assignor to The Stanlock Rubber Company, Inc., New Haven, Conn. Rubber ball or similar article. No. 59,542; Nov. 1.
Durand, Nelson C., Newark, assignor to New Jersey Patent Company, West Orange, N. J. Speaking-tube for phonographs. No. 59,543; Nov. 1.
Ehinger, Carl, Ibach-Schwyz, Switzerland. Safety-razor. No. 59,544; Nov. 1.
Estes, Thomas W., Jr., Brooklyn, N. Y. Textile fabric. No. 59,545; Nov. 1.
Farkas, Manny, New York, N. Y. Stocking. No. 59,546; Nov. 1.
Flemming, Charles F., assignor to The Miller Rubber Company, Akron, Ohio. Sponge doll. Nos. 59,547–51; Nov. 1.
Frank, Adolph, New York, N. Y. Stone-setting. No. 59,552; Nov. 1.
Gruelle, John B., Norwalk, Conn. Toy animal. No. 59,553; Nov. 1.
Jacobs, David J., Chicago, Ill. Display-stand. No. 59,554; Nov. 1.
Ladd, Amber, Sunnyvale, Calif. Child's garment. No. 59,555; Nov. 1.
Lay, Gladys I., Los Angeles, Calif. Incense-burner. No. 59,556; Nov. 1.
Lee, Thomas L., assignor to North East Electric Company, Rochester, N. Y. Window of an instrument-dash. No. 59,557; Nov. 1.
Leonard, Lewis E., Woburn, Mass., assignor to Wilde & Wyckoff Manufacturing Company, Holyoke, Mass. Writing-pocket-tablet cover. No. 59,558; Nov. 1.
Lucky Star Manufacturing Company, The. (See Page, Arden C., assignor.)
MacQuarrie, John, assignor to S. Serduke, San Francisco, Calif. Gauntlet. No. 59,559; Nov. 1.
Marx, Robert S., Cincinnati, Ohio. Badge or emblem. No. 59,560; Nov. 1.
Mellon, Helen, Los Angeles, Calif. House-dress. No. 59,561; Nov. 1.
Merchant, Samuel Y., Boston, Mass. Lady's garment. No. 59,562; Nov. 1.
Miller Rubber Company, The. (See Flemming, Charles F., assignor.)
Morar, Alex, Omaha, Nebr. Necktie or similar article. No. 59,563; Nov. 1.
New Jersey Patent Company. (See Durand, Nelson C., assignor.)
North East Electric Company. (See Lee, Thomas L., assignor.)
Olson, John A., Paterson, N. J. Steering-post lock. No. 59,564; Nov. 1.
Page, Arden C., assignor to The Lucky Star Manufacturing Company, Cincinnati, Ohio. Incense-lozenge. No. 59,565; Nov. 1.
Pioneer Brand Manufacturing Co. (See Adiman, Louis, assignor.)
Press, Jacob, New York, N. Y. Man's garter. No. 59,566; Nov. 1.
Prince, Morris, New York, N. Y. Hat-lining. No. 59,567; Nov. 1.
Rodkin, Israel, Brooklyn, N. Y. Setting for a finger-ring. No. 59,568; Nov. 1.
Seamless Rubber Company, The. (See Dodge, Frank W., assignor.)
Serduke, Sophie. (See MacQuarrie, John, assignor.)
Townsend, George F., Germantown, Pa., assignor to J. G. Chapman, New York, N. Y. Lace. No. 59,569; Nov. 1.
Varnhagen, Siegfried J., San Francisco, Calif. Child's garment. No. 59,570; Nov. 1.
West, Clare, assignor to C. B. de Mille, Los Angeles, Calif. Cloak. No. 59,571; Nov. 1.
White & Wyckoff Manufacturing Company. (See Lincoln, Louis E., assignor.)

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abrams, William, New York, N. Y. Outer and dress-shirts. No. 147,824; Nov. 1.
Acheson Graphite Company, Niagara Falls, N. Y. Graphite and anti-phone carbon. No. 147,835; Nov. 1.
American Cellulose & Chemical Manufacturing Company, Limited, The, New York, N. Y. Wire cloth and netting. No. 147,746; Nov. 1.
American Pin Company, The, Waterbury, Conn. Pins, safety-pins, and hooks and eyes. No. 147,747; Nov. 1.
American Tansel Company, San Francisco, Calif. Material for chill-proofing and stabilizing beverages. No. 147,748; Nov. 1.
American Tripoli Company, Seneca, Mo. Tripoli flour. No. 147,749; Nov. 1.
Barke Gibbon Company, Philadelphia, Pa. Women's and misses' shoes of leather and fabric. No. 147,836; Nov. 1.
Bay City Spring & Mattress Co., The, Bay City, Mich. Mattresses, pillows, bed-springs, brass and iron beds. No. 147,837; Nov. 1.
Beauford, Martha E., Los Angeles, Calif. Salve. No. 147,750; Nov. 1.
Berendsen Silk Co., Bangor, Pa. Ladies' hosiery. No. 147,838; Nov. 1.
Bliss, Wm. B., Jr., & Co., New York, N. Y. Elastics. No. 147,751; Nov. 1.
Bogaby, Tony F., East Millinocket, Me. Medicine for the relief of sufferers from cold and consumption. No. 147,752; Nov. 1.
Bonas, Auguste, Paris, France. Combs, hairpins, clasps, and hair ornaments made of tortoise-shell, bone, or ivory. No. 147,753; Nov. 1.
Bonnie-B Company, Inc., The, New York, N. Y. Hair-nets. No. 147,754; Nov. 1.
Boyd-MacDonald Company, The, New York, N. Y. Watch-crystals. No. 147,755; Nov. 1.
Brendel, William J., Catonsville, Md. Non-alcoholic beverages, syrups for making same, and spring-water. No. 147,756; Nov. 1.
Bridgeport Brass Company, Bridgeport, Conn. Tire-pumps. No. 147,757; Nov. 1.
Bridgeport Coach Lace Co., The, Bridgeport, Conn. Imitation leather. No. 147,839; Nov. 1.
Brown & Bigelow, St. Paul, Minn. Art-calendars, greeting-cards, and mottoes. No. 147,758; Nov. 1.
Brown, Cecilia J., Stapleton, N. Y. Medicinal preparation for certain purposes. No. 147,840; Nov. 1.
Brown, Kenneth W., Yonkers, N. Y. Golf score-pads and cards and covers therefor. No. 147,759; Nov. 1.
Cagua Manufacturing Company, The, New York, N. Y. Cane-binding compound. No. 147,760; Nov. 1.
Champion Milling & Grain Co., Clinton, Iowa. Dairy, stock, and poultry mixed feeds. No. 147,761; Nov. 1.
Chemical Utilities Company, The, Cincinnati, Ohio. Detergent. No. 147,762; Nov. 1.
Chicago Label and Box Co., Chicago, Ill. Prescription-file cases. No. 147,841; Nov. 1.
Chipman Knitting Mills, Easton, Pa. Hosiery for men, women, and children. No. 147,842; Nov. 1.
Cincinnati Pen Manufacturing Co. Inc., Toledo, Ohio. Fountain-pens. No. 147,763; Nov. 1.
Continental Mills, Inc., Philadelphia, Pa. Jersey cloth. No. 147,843; Nov. 1.
Cramer, Joseph, Company, The, Cincinnati, Ohio. Soap and soap paste. No. 147,765; Nov. 1.
Crystal Tissue Co., The, Rucello, Ohio. White, colored, Manila, and waxed tissue-papers. No. 147,766; Nov. 1.
De Luxe Cap Co., St. Louis, Mo. Hats. No. 147,776; Nov. 1.
Dodson, John, & James, Inc., New York, N. Y. Plush coats for ladies and misses. No. 147,844; Nov. 1.
Donald Shoe Company, The, Philadelphia, Pa. Leather shoes. No. 147,766; Nov. 1.
Durham Hosiery Mills, Durham, N. C., and New York, N. Y. Hosiery. No. 147,845; Nov. 1.
Eclipse Manufacturing Company, The, Indianapolis, Ind. Polishing composition for metal and glass. No. 147,846; Nov. 1.
Elgin Margarine Co., Elgin, Ill. Oleomargarin and nut margarin. No. 147,876; Nov. 1.
Fairchild Bros. & Foster, New York, N. Y. Preparation for certain purposes. No. 147,767; Nov. 1.
Federal Rubber Company, The, Cudahy, Wis. Automobile-bumpers, pedal-rubbers. Nos. 147,768–9; Nov. 1.
Federal Rubber Company, The, Cudahy, Wis. Mats and mattings made wholly or partly of rubber. No. 147,770; Nov. 1.
Federal Rubber Company, The, Cudahy, Wis. Automobile-bumpers, pedal-rubbers. No. 147,771; Nov. 1.
Fierman, Herman, Wilkes-Barre, Pa. Liquid tonic having stomachic stimulant and laxative characteristics. No. 147,772; Nov. 1.
Fine & Levy, New York, N. Y. Men's and boys' hats and caps. No. 147,847; Nov. 1.
Foot, Schulze & Co., Dover, Del., and St. Paul, Minn. Leather boots and shoes. No. 147,848; Nov. 1.
Foss Launch & Tug Company, Tacoma, Wash. Tugs and barges. No. 147,849; Nov. 1.
General Lead Batteries Company, Newark, N. J. Batteries and certain parts thereof. No. 147,778; Nov. 1.
Gibbs Manufacturing Company, The, Canton, Ohio. Embroidery-hoops. No. 147,850; Nov. 1.
Goodman Hosiery Mills, Indianapolis, Ind. Hosiery. No. 147,851; Nov. 1.
Goodrich, B. F., Company, The, New York, N. Y. Conveyer-belts made of fabric combined with rubber. No. 147,774; Nov. 1.
Griggs Bros. Co., The, Toledo, Ohio. Honey. No. 147,852; Nov. 1.
Guest, George A., New York, N. Y. Silk fabric and leather gloves for men, women, and children. No. 147,775; Nov. 1.
Guggenheim, Eli, Hamilton, Ohio. Certain articles of household furniture. No. 147,853; Nov. 1.
Gutmann, Henri, Silks Corporation, New York, N. Y. Silk goods in the piece. No. 147,778; Nov. 1.
Harris, David, & Elsner, Scranton, Pa. Knit goods. No. 147,854; Nov. 1.
Hathaway & Reynolds, Oriskany Falls, N. Y. Sweaters, sweater-coats, and men's and ladies' knit underwear. Nos. 147,855–6; Nov. 1.
Henderson, Warwick, Newton Center, assignor to Kangaroo Polish Co., Newton, Mass. Shoe-polish. No. 147,777; Nov. 1.
Hollins, William, & Co., Inc., New York, N. Y. Certain articles of clothing. No. 147,857; Nov. 1.
Hopkins, J. L., & Co., New York, N. Y. Shampooing preparation. No. 147,858; Nov. 1.
Ibberson, J. W., Sheffield, England. Certain cutlery and tools. No. 147,779; Nov. 1.
International Silver Company, Meriden and Waterbury, Conn. Silver-plated flat-ware. No. 147,780; Nov. 1.
Ivy Corset Company, Worcester, Mass. Garters and hose-supporters. No. 147,781; Nov. 1.
Jacoby, Philip L., San Francisco, Calif. Cakes in animal shapes. No. 147,859; Nov. 1.
Jansen & Pretsfeld, Inc., New York, N. Y. Silks in the piece. Nos. 147,782–3; Nov. 1.
Johns-Pratt Company, The, Hartford, Conn. Electric switches, cut-outs, and parts thereof. No. 147,860; Nov. 1.
Johnson, H. A., Co., Boston, Mass. Baking-powder, cream of tartar, baking-soda, &c. No. 147,861; Nov. 1.
Kahn Manufacturing Company, Mobile, Ala. Overalls, coveralls, trousers, and palm beach suits. No. 147,862; Nov. 1.
Kangaroo Polish Co. (See Henderson, Warwick, assignor.)
Kemiko Co., The, Newark, N. J. Disinfectants and deodorants. No. 147,784; Nov. 1.
Kiar, Adolph, New York, N. Y. Hair-nets. Nos. 147,863–4; Nov. 1.
Kilsby Manufacturing Co., The, Cleveland, Ohio. Certain toilet preparations. Nos. 147,785–6; Nov. 1.
Kuppenheimer, Dittmann Co., The, Cincinnati, Ohio. Leather and suede leather shoes. No. 147,866; Nov. 1.
Kurfess, J. F., Paint Company Incorporated, Louisville, Ky. Compound in paste form for patching roofs. No. 147,867; Nov. 1.
Larkin Co., Inc., Buffalo, N. Y. Laundry soap. No. 147,787; Nov. 1.
Larsen Wool and Stumping Company, Attleboro, Mass. Certain tools for garage work. No. 147,788; Nov. 1.
Loose Wiles Biscuit Company, Long Island City, N. Y. Cakes, crackers, and biscuits. No. 147,789; Nov. 1.
Los Angeles Soap Co., Los Angeles, Calif. Laundry soap. No. 147,868; Nov. 1.
Lustig, Silas, New York, N. Y. Men's hats. No. 147,869; Nov. 1.
Lynch, Chas. E., Shoe Mfg. Co. Inc., Poughkeepsie and New York, N. Y. Boots and shoes all of leather. No. 147,870; Nov. 1.
McAdams, Joseph P., New York, N. Y. Weekly newspaper. No. 147,790; Nov. 1.
McBaskey & Co., San Francisco, Calif. Mattresses. Nos. 147,871–2; Nov. 1.
Mathiesen, H. E., & Co., Inc., New York, N. Y. Silk piece goods. No. 147,791; Nov. 1.
Marshall Field & Company, Chicago, Ill. Silk skirt-braid. No. 147,793; Nov. 1.
Marshall Field & Company, Chicago, Ill. Snap-fasteners. No. 147,792; Nov. 1.
Martin, Willard S., Plainfield, Vt. Maple-sugar, fresh milk, cheese, and eggs, &c. No. 147,794; Nov. 1.
Matison, Isadore, Nashville, Tenn. Hosiery. No. 147,874; Nov. 1.
Mizel, J. A., Inc., New York, N. Y. Silk goods in the piece. No. 147,795; Nov. 1.
Miller, George L., Cumberland, Md. Lawyer's systematized diary and record ledger-books. No. 147,796; Nov. 1.

Miller, Hannah J., Camden, N. J. Washing fluids. No. 147,797; Nov. 1.
Montgomery Bros., Inc., Philadelphia, Pa. Liquid rubber cements. No. 147,798; Nov. 1.
Mossy Flux and Chemical Company, Inc., Parkesburg, Pa. Welding fluxes. No. 147,878; Nov. 1.
Mountain States Rubber Company, The, Denver, Colo. Cleaning, polishing, and dressing compound for automobiles and furniture. No. 147,799; Nov. 1.
Necedah Manufacturing Co., Necedah, Wis. Spark-timers for internal-combustion engines. No. 147,860; Nov. 1.
New Safety Paper Company, Boston, Mass. Paper to receive writing. No. 147,870; Nov. 1.
New York Tribune, Inc., New York, N. Y. Title of a newspaper-section. No. 147,801; Nov. 1.
Norwich Knitting Company, Norwich, N. Y. Knitted underwear—viz., shirts, drawers, and union-suits. No. 147,877; Nov. 1.
Okonite Company, The, Passaic, N. J. Insulated conductors and cables for electrical purposes. No. 147,802; Nov. 1.
Omaha Alfalfa Milling Company, Omaha, Nebr. Horse feed. No. 147,878; Nov. 1.
Oppenheim, A. Morton, New York, N. Y. Clothing. No. 147,879; Nov. 1.
Packard Motor Car Company, Detroit, Mich. Automobiles. No. 147,803; Nov. 1.
Palmuth, Eugene, San Francisco, Calif. Sun and rain shields for automobiles. No. 147,804; Nov. 1.
Pearsall, B. S., Butter Co., Elgin, Ill. Margarin. No. 147,880; Nov. 1.
Pick, Albert, & Company, Chicago, Ill. Soda-fountains. No. 147,805; Nov. 1.
Pioneer Tar Soap Co., The, Dayton, Ohio. Soaps. No. 147,806; Nov. 1.
Plant, H. W., & Co., Limited, Leicester, England. Knitted woolen articles of clothing, comprising coats, skirts, &c. No. 147,807; Nov. 1.
Procter and Gamble Company, The, Cincinnati, Ohio. Oleomargarin. Nos. 147,808-9; Nov. 1.
Procter and Gamble Company, The, Cincinnati, Ohio. Cooking-fats. No. 147,810; Nov. 1.
Puderbaugh, David G., Altoona, Pa. Medicinal preparation for certain uses. No. 147,811; Nov. 1.
Puritan Drug Mfg. Co., The, Columbus, Ohio. Mucilage, adhesive tapes, liquid glue, and court-plaster. No. 147,812; Nov. 1.
Rhea Manufacturing Company, Milwaukee, Wis. Women's aprons and bloomers. No. 147,881; Nov. 1.
Samuels, M., & Co., Baltimore, Md. Leather and fibrous boots, shoes, and slippers. No. 147,882; Nov. 1.
Sanford Motor Truck Company, Syracuse, N. Y. Motor-trucks. No. 147,883; Nov. 1.
Sattler, Gustav, New York, N. Y. Hair-nets. No. 147,813; Nov. 1.
Sears, Roebuck and Company, New York, N. Y., and Chicago, Ill. Spring-driven motors, and certain accessories therefor. No. 147,814; Nov. 1.
Shapleigh Hardware Company, St. Louis, Mo. T-bevels, hatchet-gages, squares, wing-dividers. No. 147,815; Nov. 1.
Société Générale des Cirages Français, Paris, France. Polish for leather. No. 147,816; Nov. 1.
Sparhawk, Charles V., Inc., New York, N. Y. Food-flavoring oils and extracts. No. 147,884; Nov. 1.
St. Lawrence Manufacturing Company, Chicago, Ill. Hair-tonic. No. 147,820; Nov. 1.
Standard Corrugated Box Co., St. Louis, Mo. Strawboard boxes. No. 147,885; Nov. 1.
Stedgman, Mitchell, San Francisco, Calif. Phonographs. No. 147,818; Nov. 1.
Stein, Louis, New York, N. Y. Hair-nets. No. 147,819; Nov. 1.
Superior Honey Company, Ogden, Utah. Honey. No. 147,886; Nov. 1.
T. & H. Specialty Mfg. Co. Inc., Charleston, W. Va. Talking-machines and certain attachments and supplies therefor. No. 147,817; Nov. 1.
Texoleum Company of New York, New York, N. Y. Oil-cloth, linoleum, mats, and rugs in the nature of linoleum and oil-cloth. No. 147,887; Nov. 1.
Torch Packing Co., Baltimore, Md. Crushed oyster-shells. No. 147,888; Nov. 1.
Toulson & Rensch, Bridgeport, Conn. Yarns. No. 147,821; Nov. 1.
Trask, John C., Salem, Mass. Salve for cuts, burns, sores, &c. No. 147,822; Nov. 1.
Tur-Boy Co., The, St. Louis, Mo. Sand and draft operated toys. No. 147,823; Nov. 1.
Turnbull, J. W., Lumber Company, Philadelphia, Pa. Certain seasoned lumber. No. 147,824; Nov. 1.
United Fertiliser Company, Carrollville, Wis. Fertilisers. No. 147,825; Nov. 1.
Wagner, Elmer Edward, Hasleton, Pa. Overalls and jackets. No. 147,890; Nov. 1.
Ward Baking Company, New York, N. Y. Ingredient used in the manufacture of bread, &c. No. 147,826; Nov. 1.
Ward Leonard Electric Company, Mount Vernon, N. Y. Electric resistance units, rheostats, regulators, and electric resistors. Nos. 147,827-8; Nov. 1.
Warren, Levy L., Louisville, Ky. Periodical issued monthly. No. 147,892; Nov. 1.
Wayne Knitting Mills, Fort Wayne, Ind. Hosiery. No. 147,829; Nov. 1.
Welch, William O., Milwaukee, Wis. Photographs. No. 147,829; Nov. 1.
Western Cartridge Company, East Alton and Springfield, Ill. Impregnated or coated woven fabric. No. 147,830; Nov. 1.
Wickwire Spencer Steel Corporation, Worcester, Mass. Garment-hangers, fly traps, swatters, &c. No. 147,831; Nov. 1.
Wolff, H., & Co., New York, N. Y. Beaded bags. No. 147,832; Nov. 1.
Worcester Office Supplies Company, Incorporated, Worcester, Mass. Hand-stamps. No. 147,833; Nov. 1.
Yorkshire Knitting Co. Inc., New York, N. Y. Clothing. No. 147,891; Nov. 1.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Alexander, Peter C., New York, N. Y. "Two Bulldogs, Splendora Mills, and a Descriptive Paragraph in English and Seven Foreign Languages." (For Sheetings and Drills.) No. 23,584; Nov. 1.
Blue Seal Bed Spring Co., The, Brooklyn, N. Y. "Beds and Springs—Fit for Kings." (For Beds and Springs.) No. 23,585; Nov. 1.
Bonney Vise & Tool Works, Allentown, Pa. "'Fin-Twister' Particularly Useful on Ford Cars." (For Box-Tops.) No. 23,586; Nov. 1.
Bradley-Wise Paint Company, Los Angeles, Calif. "Bradley's." (For Paints.) No. 23,587; Nov. 1.
California Conserving Co., San Francisco, Calif. "California Home." (For Pickles.) No. 23,588; Nov. 1.
D'Orlando Co., Boston, Mass. "Marathon." (For Chocolates.) No. 23,589; Nov. 1.
First National Pharmacy, Lehighton, Pa. "First National P. E. P." (For Bottles Containing a Medicine for Restoring Lost Vitality of Men and for Upbuilding the Nervous System.) No. 23,590; Nov. 1.
Frankel, B., Company, Inc., The, New York, N. Y. "Lassie." (For Hair-Nets.) No. 23,591; Nov. 1.
Frederick & Nelson, Seattle, Wash. "The Home-Made Box." (For Boxes Containing Chocolate Candies.) No. 23,592; Nov. 1.
Goelitz Confectionery Co., North Chicago, Ill. "Butter Sweet Corn." (For Confections.) No. 23,593; Nov. 1.
Helt-Miller-Lau Company, Fort Wayne, Ind. "Mary Wayne." (For Candles.) No. 23,594; Nov. 1.
Hoffman, Martin M., Oakland, Calif. "Peanut Andy." (For Peanut Candy.) No. 23,595; Nov. 1.
Joeckel, George W., Baltimore, Md. "Alpha Automobile Polish." (For Bottles Containing a Polish for Automobiles.) No. 23,596; Nov. 1.
Klar, Adolph, New York, N. Y. "Hold-Tight." (For Hair-Nets.) No. 23,597; Nov. 1.
La Fortune, Duke, Springfield, Mass. "Mother Houghton's Chicken Hamburg." (For Cooked Meat—Namely, Chicken Hamburg.) No. 23,598; Nov. 1.
Lichtstein, Abraham, Pittsburgh, Pa. "A. L. Brand." (For Hair-Restorative.) No. 23,599; Nov. 1.
Lightstein, Abraham, Pittsburgh, Pa. "A. L. Brand." (For Dandruff Remedy.) No. 23,600; Nov. 1.
Mid-States Gummed Paper Co., Chicago, Ill. "Stick Quick." (For Gummed Paper and Cloth.) No. 23,601; Nov. 1.
Miller Brothers, New York, N. Y. "Cameo Jewel Box." (For Cartons or other Containers for This Jewel-Box.) No. 23,602; Nov. 1.
Simon, Lee, Natchez, Miss. "Nutritious Bread Clean." (For Bread.) No. 23,603; Nov. 1.
Stevens Manufacturing Co., Fall River, Mass. "Stevens Novelite Bedspread." (For Bedspreads.) No. 23,604; Nov. 1.
True Shape Hosiery Co., Philadelphia, Pa. "True Shape." (For Hosiery.) No. 23,605; Nov. 1.
United States Metallic Packing Company, The, Philadelphia, Pa. "King Packing Ring." (For Boxes Containing Packing-Rings.) Nos. 23,606-9; Nov. 1.
Van Berge Co., Inc., Minneapolis, Minn. "Ryan's Van-Berge." (For a Fruit Beverage.) No. 23,610; Nov. 1.
Van Vleet-Mansfield Drug Co. "For Creole Hair Dressing." (For Cartons in Which are Bottles Containing a Hair-Tonic.) No. 23,611; Nov. 1.
Volker & Son, Chas., Chicago, Ill. "Volker's Bohemian Brand." (For Tins Containing Malt Extract.) No. 23,612; Nov. 1.
Wander Company, The, Chicago, Ill. "Ovaltine." (For Tins Containing Ovaltine.) No. 23,613; Nov. 1.
Wittar, Alfred S., Seattle, Wash. "The Game of Traps." (For a Game.) No. 23,614; Nov. 1.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Fairbank, N. K., Company, The, New York, N. Y. "Kept Clean with Gold Dust." (Ice-Box Design.) (For Advertising Purposes for Gold Dust Washing-Powder.) No. 5,824; Nov. 1.
Hoffman, Martin M., Oakland, Calif. "Peanut Andy." (For Advertising Purposes for Peanut Candy.) No. 5,825; Nov. 1.
Katz, I. and M., Kansas City, Mo. "Kats Pays the Tax." (For Advertising Purposes for Cigars and Tobacco.) No. 5,826; Nov. 1.
Mettendorf, Oscar F., Lincoln, Ill. "290 Eggs in One Year." (For Advertising Purposes for Poultry and Eggs.) No. 5,827; Nov. 1.
Northam Warren Corporation, New York, N. Y. "Don't Cut the Cuticle." (For Advertising Purposes for Manicure Preparations.) No. 5,828; Nov. 1.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Ahlbell Battery Container Corporation, Chicago, Ill. Battery-containers. No. 152,466; Nov. 1.
Allen-Bradley Company, Milwaukee, Wis. Electrical controlling devices. No. 148,045; Nov. 1.
American Cereal Coffee Company, Chicago, Ill. Substitute for coffee. No. 150,797; Nov. 1.
American Milk Products Corporation, New York, N. Y. Unsweetened evaporated milk. No. 147,889; Nov. 1.
Art Craft Shops Company, St. Louis, Mo. Letter-boxes, mailing-envelope, correspondence-cards. No. 133,949; Nov. 1.
Associated Oil Company, San Francisco, Calif. Lubricating oils and greases. No. 151,931; Nov. 1.
Atkinson Drug Co., Atkinson, Ill. Compound for sealing leaks in radiators of gas-engines. No. 149,573; Nov. 1.
Ayotte Manufacturing Co., Chicago, Ill. Lubricating-oils. No. 151,653; Nov. 1.
Bailey Co., The, Cleveland, Ohio. Toilet waters, skin-lotions, face-creams, vanishing creams, &c. No. 149,121; Nov. 1.
Baker, H. A., Inc., Sumner, Wash. Canned fruits, berries, and vegetables. No. 148,044; Nov. 1.
Barney-Bennett Co., Sioux City, Iowa. Stomach remedy. No. 151,144; Nov. 1.
Baron, Antoni, East Chicago, Ind. Salve for wounds, sores, eczema, and skin diseases. No. 149,795; Nov. 1.
Baruzes, Chriet, Newark, Ohio. Hard and soft candies, bonbons, chocolates, and marshmallows. No. 148,702; Nov. 1.
Bauer & Black, Chicago, Ill. Soap. No. 151,748; Nov. 1.
Bernhard Ulmann Co. Inc., New York, N. Y. Woven textile fabrics used as foundation for art-needlework. No. 150,094; Nov. 1.
Bernhard Ulmann Co. Inc., New York, N. Y. Woven textile fabrics used as foundation for art-needlework. No. 150,097; Nov. 1.
Bernstein Bros., New York, N. Y. Furniture and upholstery. No. 148,476; Nov. 1.
Birch Chemical Co., Columbus, Ohio. Liquid dentifrices. No. 151,141; Nov. 1.
Birtman Electric Company, Chicago, Ill. Electric motors. No. 152,199; Nov. 1.
Boarman & Son, Chester, Del. Ginger-ale, apple-juice, root-beer, &c. No. 131,640; Nov. 1.
Bonebrake, Bert O. M., Chicago, Ill. Game of chance played with polygonal indicia bearing numbers. No. 148,051; Nov. 1.
Brown, Jeanette G., Chicago, Ill. Liquid face-powder. No. 149,377; Nov. 1.
Burrows, Eastman A., Chicago, Ill. Display and dispensing counter for stores. No. 149,536; Nov. 1.
California Growers Association, Inc., Los Angeles, Calif. Canned fruits and vegetables. No. 147,405; Nov. 1.
Campion, John F., Tulsa, Okla. Lubricating-oils and petroleum lubricating-greases, gasolene, and kerosene. No. 150,099; Nov. 1.
Cetrulo, John, Arlington, N. J. Hair-grower. No. 148,929; Nov. 1.
Cincinnati Art Publishing Company, The, Cincinnati, Ohio. Picture-card art novelties in the form of printed or hand-tinted cut-out figures. No. 150,222; Nov. 1.
Cleminshaw, Levitch & Co., New York, N. Y. Dress fabrics and linings. No. 147,409; Nov. 1.
Clinton Malt Product Co., Clinton, Iowa. Malt-syrup used for and in the manufacture of beverages. No. 139,249; Nov. 1.
Comer, Fetterly & Co., Inc., Union Hill, N. J., and New York, N. Y. Pharmaceutical preparation composed of animal-gland substances for ovarian and testicular insufficiencies, &c. No. 149,684; Nov. 1.
Cowdrey, Harry C., New York, N. Y. Paper and envelops. No. 130,581; Nov. 1.
Cupid Beauty Company, New York, N. Y. Bleach-creams, beauty-creams, face-powders, compact face-powders, &c. No. 149,627; Nov. 1.
De Lisle, Harold L., Chicago, Ill. Filing-cabinets. No. 149,393; Nov. 1.
Delgimayr, Ivo, Munich, Germany. Remedy against gall-stones, liver complaint, &c. No. 147,717; Nov. 1.
Derk, Joseph, Philadelphia, Pa. Summer-portières, silk drapery-cloths, and curtains. No. 137,563; Nov. 1.
Diacarbo Disc Grinding Compound Co., Milwaukee, Wis. Metal-grinding compound. No. 150,737; Nov. 1.
Diamond Alkali Company, Pittsburgh, Pa. Soda-ash and caustic soda. No. 130,806; Nov. 1.
Distillers Finance Corporation Limited, Belfast, Ireland. Whisky. No. 148,858; Nov. 1.
Drackett, P. W., & Sons Co., Cincinnati, Ohio. Chemical for cleansing drains, sinks, washboards, &c. No. 151,035; Nov. 1.
Duncan, John L., Manchester, England. Tobacco pipes, and cigar and cigarette tubes. No. 147,863; Nov. 1.
Dunlop Rubber Co. Ltd., The, Aston Cross, Birmingham, England. Golf-balls. Nos. 151,867-70; Nov. 1.
Dunn, John, Son & Co., New York, N. Y. Hammers, pliers, knives, forks, axes, &c. No. 140,871; Nov. 1.
Durable Utilities Mfg. Corp., Port Chester, N. Y. Cotton buffs. No. 151,312; Nov. 1.
Dyas & Le Gros, Incorporated, Chicago, Ill. Wood filler in liquid, paste, or dry form. No. 151,261; Nov. 1.
Eckenrode, John M., Pasadena, Calif. Root-beer. No. 138,162; Nov. 1.
Electric Manufacturing Company, San Francisco, Calif. Electric air-blowers, hair-driers, curling-iron heaters, &c. No. 148,876; Nov. 1.
Empire Notion Co., New York, N. Y. Hairpins. No. 149,895; Nov. 1.
Ewell Fruit Company, Watsonville, Calif. Dehydrated fruit, (apples). No. 151,264; Nov. 1.
Fantis & Cutsogeorge, New York, N. Y. Olive-oil. No. 150,857; Nov. 1.
Federal Rubber Company, The, Cudahy, Wis. Repair-gums, rubber cement. No. 146,902; Nov. 1.
Ferguson, W. M., Fresno, Calif. Rugs. No. 151,790; Nov. 1.
Fitzpatrick Bros., Chicago, Ill. Soap. No. 151,666; Nov. 1.
Flores, Rudolfo, Sedalia, Mo. Thin ointment antiseptic healing agent for cuts, insect-bites, &c. No. 149,532; Nov. 1.
Folger, J. A., & Co., San Francisco, Calif. Tea and coffee. No. 150,664; Nov. 1.
Fowler Packing Company, Kansas City, Kans. Lard and dry salt and sweet-pickled pork. No. 152,141; Nov. 1.
Franck, Paul, New York, N. Y. Food tonic compound of dried yeast and vitamins. No. 149,744; Nov. 1.
Franklin, J. G., and Sons Limited, Dalston, London, England. Toys made of india-rubber. No. 142,140; Nov. 1.
Fuller Brush Company, The, Hartford, Conn. Mops, dusters, brushes, &c. No. 141,950; Nov. 1.
Garner, Harry T., Sioux Falls, S. D. Rodent-poison. No. 150,526; Nov. 1.
Garner Print Works and Bleachery, New York, N. Y. Mercerised and unmercerised lingerie-cloth. No. 151,081; Nov. 1.
Gem Crib & Cradle Company, Gardner, Mass. Wheel-bassinets, cribs, cradles, &c. No. 143,435; Nov. 1.
General Electric Company, Schenectady, N. Y. Asbestos insulated electric wires. No. 147,159; Nov. 1.
General Electric Company, Schenectady, N. Y. Electric-light fixtures. No. 151,002; Nov. 1.
General Electric Company, Schenectady, N. Y. Outlet boxes and fittings. No. 152,551; Nov. 1.
General Match Company, The, Cincinnati, Ohio. Matches. No. 143,862; Nov. 1.
Gerhard Lang Brewery, Buffalo, N. Y. Malt-syrup for use in the manufacture of beverages. No. 152,304; Nov. 1.
Gibson, Geo. R., Co., New York, N. Y. Hair-brushes and toothbrushes. No. 140,794; Nov. 1.

Gladiator Manufacturing Company, Auburn, Ind. Timers for electrical ignition system for hydrocarbon-engines. No. 151,792; Nov. 1.

Goodrich, B. F., Company, The, New York, N. Y. Handballs, baseball body-protectors, &c. No. 137,460; Nov. 1.

Graff, Washbourne & Dunn, New York, N. Y. Electric fans and heaters. No. 150,965; Nov. 1.

Grenoville, Marie M., Richard Vve, Amiens, France. Perfumes, toilet waters, face lotions, eau-de-cologne, and brilliantine. No. 150,610; Nov. 1.

Hadfields Limited, Sheffield, England. Golf-clubs, dumbbells, fencing-foils, &c. No. 136,260; Nov. 1.

Hair Net Importing Co. Inc., New York, N. Y. Hair-net. No. 133,969; Nov. 1.

Hammerbacher, George D., Baltimore, Md. Peanut taffy and other taffy and chocolate marshmallows. No. 145,990; Nov. 1.

Hanson, Arthur C., Chicago, Ill. Antiseptic powder for cuts, sores, &c. No. 130,036; Nov. 1.

Happiwork, New York, N. Y. Toys in package-containers consisting of materials for kindergarten occupational work. No. 150,530; Nov. 1.

Hass Brothers Fabrics Corporation, New York, N. Y. Silk, linen, woolen, and cotton, &c., piece goods. No. 152,255; Nov. 1.

Hegewisch Chemical Works, Chicago, Ill. Medicinal fattening compound for animals. No. 150,328; Nov. 1.

Hilcox, C. F. Co., The, Sidney, Ohio. Candy. No. 137,461; Nov. 1.

Hilton Collins Co. Incorporated, Louisville, Ky. Baseball belts. Nos. 152,870–81; Nov. 1.

Hollingshead, R. M., Co., The, Camden, N. J. Antifreeze compound, carbon and tar removers, &c. No. 149,136; Nov. 1.

Horn Company Incorporated, The, Louisville, Ky. Non-alcoholic, maltless carbonated soft drinks and fountain-syrups. No. 151,541; Nov. 1.

House, Jacob, & Sons, Buffalo, N. Y. Non-alcoholic maltless beverages and syrups for making same. No. 151,321; Nov. 1.

Hubback, Thos., & Son Limited, London, England. Brooms and mops. No. 123,576; Nov. 1.

Illinois Razor Strop Company, Chicago, Ill. Razor-strops. Nos. 148,657–8; Nov. 1.

Iroquois Beverage Corporation, Buffalo, N. Y. Non-alcoholic maltless beverages. No. 135,930; Nov. 1.

Jacobsen, Norman, New York, N. Y. Dolls. Nos. 151,043–5; Nov. 1.

Jean, Chas. A., Anna, Ill. Compound nut butter, apple-butter, catsup, and honey. No. 150,196; Nov. 1.

Jiffy Pen Company, Sioux City, Iowa. Writing-inks. No. 147,725; Nov. 1.

Johnson & Co., B. L., Knoxville, Tenn. Candy. No. 151,089; Nov. 1.

Juan & McCormack, New York, N. Y. Condensed milk. No. 150,273; Nov. 1.

Keller, Albert P., New Orleans, La. Writing-inks. No. 137,479; Nov. 1.

Kirk, James S., & Company, Chicago, Ill. Soap. No. 151,799; Nov. 1.

Klar, Adolph, New York, N. Y. Hair-nets. No. 150,688; Nov. 1.

Kolbe, Paul, Detroit, Mich. Non-alcoholic beverages in containers. No. 147,110; Nov. 1.

Kriger, Philip I., Chicago Ill. Malt extract. No. 152,206; Nov. 1.

Levy, Frank, New York, N. Y. Flat and print paper, typewriting-paper, wax-paper, bristol-board, &c. No. 148,153; Nov. 1.

Lewis and Rose, Lebo, Kans. Candy. No. 150,971; Nov. 1.

Liebergelt, Annie, New York, N. Y. Hair-combs. No. 138,321; Nov. 1.

Loeber, Charles E., San Francisco, Calif. Printed books, including maps, published from time to time. No. 150,548; Nov. 1.

Louisville Electric Manufacturing Company, Louisville, Ky. Portable electrically-driven tools, electric motors, electric generators, &c. No. 150,242; Nov. 1.

Lowell Company, The, Lowell, Mass., and New York, N. Y. Face creams, lotions, and powders, hair-tonics, &c. Nos. 149,338–5; Nov. 1.

Lowenwerke, A. G., Heilbronn, Wurttemberg, Germany. Preparation for venereal diseases. No. 141,217; Nov. 1.

Lukert, William, Mericka, N. Y. Live and dressed poultry. No. 147,030; Nov. 1.

Mackie Pine Oil Specialty Co., Inc., Covington, La. Pine-oil for cuts, burns, &c. No. 120,960; Nov. 1.

Maggi Co., The, Kempttal, Zurich, Switzerland. Seasonings, soups, consommés, sauces, &c. No. 148,973; Nov. 1.

Malt-Diastase Company, New York, N. Y. Concentrated liquid malt extracts. No. 132,438; Nov. 1.

Manufacturing Company of America, Philadelphia, Pa. Candy. No. 147,947; Nov. 1.

Marie Djang-lure Co., Seattle, Wash. Toilet (face) powder. No. 150,873; Nov. 1.

Mason City Oil & Grease Company, Mason City, Iowa. Crude oil used upon hogs. No. 151,241; Nov. 1.

Mayer, F. D., Manufacturing Co., The, Chicago, Ill. Composition erasers for artists' use. No. 124,453; Nov. 1.

McDougall & Yalding, Ltd., Yalding, England. Fungicides, insecticides, vermicides, &c. No. 149,464; Nov. 1.

McDougall & Yalding, Ltd., Yalding, England. Fungicides, insecticides, vermicides, &c. No. 149,466; Nov. 1.

McPeeters, H. G., & Co., New York, N. Y. Portable electric-lighting fixtures, desk, &c., lamps. No. 150,575; Nov. 1.

Mecca Medicinal Products Company, Rochester, N. Y. Medicinal specific used as a poultice, salves, hair-washes, &c. No. 149,260; Nov. 1.

Merk, H. A., Laboratories, Inc., New York, N. Y. Anæsthetics and preparations for alleviating irritation and pain. Nos. 143,142–0; Nov. 1.

Miller, Fred, Brewing Company, Milwaukee, Wis. Malt-syrup. No. 152,022; Nov. 1.

Missouri Egg & Poultry Company, Sedalia, Mo. Dressed poultry. No. 148,571; Nov. 1.

Montgomery-Winston, Altadena, Calif. Toys. No. 145,351; Nov. 1.

Moon Beverage Company, The, Milwaukee Wis. Non-alcoholic, maltless beverage sold as a soft drink. No. 150,305; Nov. 1.

Moore, Zannie E., Granger, Tex. Medicinal preparation used as a remedy for tuberculosis. No. 146,644; Nov. 1.

Morris, Mann & Reilly, Chicago, Ill. Hair-nets. No. 151,921; Nov. 1.

National Beverage Distributing Co., Milwaukee, Wis. Liquid malt extract. No. 152,062; Nov. 1.

National Biscuit Company, Jersey City, N. J., and New York, N. Y. Ice-cream cones. No. 150,978; Nov. 1.

National Paper Products Company, San Francisco, Calif. Toilet-paper, paper towels, and serpentine. No. 128,158; Nov. 1.

Nedlin, Morris, Chicago, Ill. Binding. No. 142,521; Nov. 1.

Nesb, Arther E., Minneapolis, Minn. Automatic liquid spraying systems for purifying the air of buildings. No. 146,455; Nov. 1.

Newmaker, Floyd H., Warren, Pa. Dressers, chiffoniers, dressing-tables, beds, vanity-dressers, &c. No. 148,611; Nov. 1.

Nigg, Diebold R., St. Louis, Mo. Non-alcoholic beverage. No. 145,407; Nov. 1.

Noco Petroleum Company, New York, N. Y. Benzin. No. 139,904; Nov. 1.

Northwestern Bedding and Manufacturing Co., St. Paul, Minn. Bed-springs. No. 150,554; Nov. 1.

Nut Specialty House, The, St. Paul, Minn. Almonds and other nuts salted in the shell. No. 146,161; Nov. 1.

Ohio Valley Refining Company, St. Marys, W. Va. Kerosene, gasolene, fuel-oil, lubricating-oil, and paraffin-wax. No. 150,630; Nov. 1.

Organ-Iron Company, Omaha, Nebr. Medicine for constipation, biliousness, &c. No. 150,989; Nov. 1.

Osborne, Claude F., Hampton, Iowa. Medical compound for the feet. No. 144,468; Nov. 1.

Parrish, James B., Denver, Colo. Liniment. No. 143,401; Nov. 1.

Peabody School Furniture Co., The, North Manchester, Ind. Desks and folding and school chairs. No. 146,857; Nov. 1.

Peaks, George W., Akron, Ohio. Game-boards. No. 151,220; Nov. 1.

Peiff, C. T., & Company, Helena, Mont. Laundry soap. No. 151,037; Nov. 1.

Pioneer Biochemic Products Co., Pleasant Hill, Mo. Laxative salts. No. 136,942; Nov. 1.

Pittsburgh Electric Furnace Corporation, Pittsburgh, Pa. Electrometallurgical furnaces. No. 149,253; Nov. 1.

Pittsburgh Plate Glass Company, Kesmont-Kokosia Division, Baltimore, Md., Paint, varnish, whitewash, calcimine, and brushes. No. 144,120; Nov. 1.

Pistel, Mathias, New Mayel, Minn. Non-intoxicating, maltless beverage. No. 123,594; Nov. 1.

Polar Salve Company, New York, N. Y. Salve for treatment of eczema, leg-ulcers, piles, old sores, &c. No. 149,515; Nov. 1.

Precision Equipment Co., The, Cincinnati, Ohio. Spark-plugs, receiving-tuners, and induction-coils. No. 114,748; Nov. 1.

Quest Manufacturing Company, Chicago, Ill. Typewriter carbon-paper and ribbons. No. 146,490; Nov. 1.

Rhodes, Calton P., San Francisco, Calif. Mouthpiece-holders for tobacco products. No. 148,041; Nov. 1.

Ripple Corporation, The. (See Schusterman, Samuel, assignor.)

Rocchietta, Camillo, Pinerolo, Italy. General tonic. No. 148,594; Nov. 1.

Rogers, Simeon L. & George H., Company, Hartford, Conn. Silver-plated flat and hollow ware. No. 141,994; Nov. 1.

Rub-Tex Products, Inc., Indianapolis, Ind. Electric-storage-battery boxes, tops for electric-storage-battery boxes, &c. No. 150,629; Nov. 1.

Samstag & Hilder Bros., New York, N. Y. Toothbrushes. No. 136,944; Nov. 1.

Schaeffer, Chas. F., Reading, Pa. Braids, shoe and corset laces. No. 147,990; Nov. 1.

Schoenhofen Company, Chicago, Ill. Orange, cherry, and grape sodas, sarsaparilla, and sparkling water. No. 152,049; Nov. 1.

Schultz, Arthur J., Los Angeles, Calif. Honey. No. 151,293; Nov. 1.

Schusterman, Samuel, New York, N. Y., assignor to The Rippel Corporation. Non-alcoholic, non-cereal, maltless beverage, and syrup for making same. No. 148,617; Nov. 1.

Schwab, Abraham, Memphis, Tenn. Toilet soap. No. 151,564; Nov. 1.

Seligman, Samuel, New York, N. Y. Electrical burglar-alarm systems and the parts thereof. No. 145,480; Nov. 1.

Senegas, Jean, New York, N. Y. Nail-polish. No. 149,489; Nov. 1.

Sigmund Ullman Company, New York, N. Y. Printing-inks. No. 144,261; Nov. 1.

Simon, Vuillard & Strauss, London, England. Briar pipes. No. 141,122; Nov. 1.

Sioux Falls Coffee & Spice Co., Sioux Falls, S. D. Roasted coffee. No. 150,710; Nov. 1.

Sloane, W. & J., New York, N. Y. Office furniture, directors' room furniture, dining-room and bedroom furniture. No. 152,387; Nov. 1.

Smith, Edith S., Watertown, N. Y. Cloth dolls. No. 151,928; Nov. 1.

Southern Cabinet & Furniture Co. Inc., New Orleans, La. Piano-benches, cedar chests, beds, couches, &c. No. 138,457; Nov. 1.

Spa Baths Co. Inc., Saratoga Springs, N. Y. Mineral and medical salt. No. 149,780; Nov. 1.

Spalding, A. G., & Bros., New York, N. Y. Playing-balls for athletic game. No. 143,720; Nov. 1.

Sphagnum Products Company, Portland, Oreg. Surgical or sanitary bandage. No. 139,872; Nov. 1.

Standard Bottling and Extract Co., Boston, Mass. Syrup for making non-alcoholic beverages. No. 142,816; Nov. 1.

Standard Oil Company of New York, New York, N. Y. Paints, turpentine, varnishes, polishing-oil. No. 136,209; Nov. 1.

Stewart, J. Marcus, Charlotte, N. C. Solution for use in treatment of diseases of the teeth, throat, and mouth. No. 149,824; Nov. 1.

Sun Manufacturing Company, Council Bluffs, Iowa. Macaroni and spaghetti. No. 144,106; Nov. 1.

Sunshine Cleansing Products Company, The, Denver, Colo. Cleaning and scouring composition for metal surfaces, &c. No. 125,406; Nov. 1.

Suzuki & Co., Higashi-Kawasakicho, Hyogo, Kobe, Japan. Matches. No. 118,318; Nov. 1.

Sweet-Odor-Home Company, San Francisco, Calif. Deodorants. No. 145,135; Nov. 1.

Tollemache's Ipswich Brewery Limited, Ipswich, England. Fermented liquors and spirits. No. 141,194; Nov. 1.

Tripp, Samuel G., Berne, Switzerland. Tobacco-boxes. No. 128,905; Nov. 1.

Usit Manufacturing Company of America, Inc., New York, N. Y. Face-powder and wrinkle-cream. No. 133,031; Nov. 1.

Varga, John, South Bethlehem, Pa. Remedy for hemorrhoids. No. 149,833; Nov. 1.

Vassar Swiss Underwear Co., Chicago, Ill. Union-suits, vests, and drawers. No. 107,186; Nov. 1.

Verguet, Comoy, St. Claude, France. Cigar and cigarette holders. No. 110,970; Nov. 1.

Vinard Manufacturing Company, Inc., Rochester, N. Y. Polish and cleaner for automobiles, furniture, and wood. No. 150,338; Nov. 1.

Wacker, George W., Rutherford, N. J. Electric thief and burglar alarms. No. 150,789; Nov. 1.

Walker, Madame C. J., Inc., Chicago, Ill. Toilet preparations. No. 139,727; Nov. 1.

Wallace & Co., Brooklyn, N. Y. Candies. No. 150,577; Nov. 1.

Wauchula Chemical Company, Wauchula, Fla. Hair-tonics. No. 149,615; Nov. 1.

Western Battery & Supply Company, The, Denver, Colo. Storage batteries. No. 150,048; Nov. 1.

Wheeler Varnish Works, Chicago, Ill. Automobile-paint. No. 136,495; Nov. 1.

White Mills of New Hampshire, Winchendon and Winchendon Springs, Mass. Cotton piece goods, and especially denim. No. 150,984; Nov. 1.

Whittemore Brothers Corporation, Cambridge, Mass. Dressing for shoes and other leather articles. No. 144,368; Nov. 1.

Wiechman Pattern Company, The, Cincinnati, Ohio. Shoe-patterns. No. 147,072; Nov. 1.

Wielich, Albert, New York, N. Y. Malt extracts. No. 140,978; Nov. 1.

Wiggins, Clara, Tampa, Fla. Hair-grower. No. 148,471; Nov. 1.

Will & Baumer Candle Co. Inc., Syracuse, N. Y. Candles. Nos. 151,731–2; Nov. 1.

Will & Baumer Candle Co. Inc., Syracuse, N. Y. Candles. Nos. 151,735–6; Nov. 1.

Will & Baumer Candle Co. Inc., Syracuse, N. Y. Candles. No. 151,737; Nov. 1.

Wimort Manufacturing Company, Chicago, Ill. Humidors of small sizes. No. 139,139; Nov. 1.

Wisconsin Iron Store Inc., The, Rice Lake, Wis. Spark-plugs. No. 143,799; Nov. 1.

Wolfram, Emil, Columbus, Ohio. Throat-chips in the nature of medicated lozenges, constipation-capsules, &c. No. 148,906; Nov. 1.

Woods, Charles G., Jr., Burbank, Calif. Mixture for destruction of rodents. No. 151,072; Nov. 1.

Worumbo Manufacturing Company, Bath, Me. Camel's-hair cloth in the piece. No. 149,616; Nov. 1.

Wyle-Heinsfurter Co., New York, N. Y. Silks, ribbons, velvets, and cotton goods, in the piece. No. 151,998; Nov. 1.

Yellow-Fluid Chemical Co., The, Charleston, S. C. Insect-exterminator, disinfectant, and deodorizer. No. 149,790; Nov. 1.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 1ST DAY OF NOVEMBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Absorption-tank. T. Wight. No. 1,395,463; Nov. 1.
Acid, Manufacture of picric. D. B. Macdonald. No. 1,396,001; Nov. 1.
Adding-machine. M. F. Gascon. No. 1,395,991; Nov. 1.
Adjustable clamp. F. and G. Lantieri. No. 1,395,839; Nov. 1.
Adjustable pulley. F. A. West. No. 1,395,884; Nov. 1.
Aeroplane-control system. A. Black. No. 1,395,254; Nov. 1.
Aeroplane propulsion means. M. H. Anderson. No. 1,395,896; Nov. 1.
Aeroplanes, Parachute for use with. F. C. Mears. No. 1,395,724; Nov. 1.
Agitator. W. A. Butchart. No. 1,395,480; Nov. 1.
Agricultural implement. W. B. and W. J. Aton. No. 1,395,329; Nov. 1.
Air, Dispenser for compressed. G. J. Spehrer. No. 1,395,368; Nov. 1.
Air-hose support. O. Stroberger. No. 1,395,616; Nov. 1.
Air in rooms and chambers of any kind, Arrangement for changing and heating. P. Barducci. No. 1,395,938; Nov. 1.
Air, Machine for carbureting. M. S. Levé. No. 1,395,505; Nov. 1.
Aircraft. J. Bauer. No. 1,395,249; Nov. 1.
Aircraft, Landing stage or station for. W. J. Stewart. No. 1,395,612; Nov. 1.
Aircraft, Means for folding the planes of. H. Bolas. No. 1,395,628; Nov. 1.
Airplane. J. G. Yonkese. No. 1,395,603; Nov. 1.
Amusement device. J. J. Cullinan. No. 1,395,261; Nov. 1.
Amusement device. E. N. Hennegan. No. 1,395,674; Nov. 1.
Animal-trap. J. Kasprzyk. No. 1,395,680; Nov. 1.
Arch and brick therefor, Perforated. A. H. Willett. No. 1,395,542; Nov. 1.
Armchair and bed. C. B. Baird. No. 1,395,465; Nov. 1.
Artichoke-trimmer. R. W. Cline. No. 1,395,481; Nov. 1.
Atomizing and spraying device. E. J. McLean and S. W. McGavran. No. 1,395,965; Nov. 1.
Auto-spring oiler. J. H. Pettit. No. 1,395,515; Nov. 1.
Auto warning-signal. J. H. Tubbergen. No. 1,395,461; Nov. 1.
Automobile-body. J. Zygman. No. 1,395,544; Nov. 1.
Automobile-buffer. J. F. Martin. No. 1,395,925; Nov. 1.
Automobile-doors, Latch mechanism for. E. G. Budd. No. 1,395,477; Nov. 1.
Automobile-hotel. L. L. Moe. No. 1,395,969; Nov. 1.
Automobile-lights, Dimming mechanism for. A. N. Coulson. No. 1,395,907; Nov. 1.
Automobile-lock. B. B. Clayton. No. 1,395,906; Nov. 1.
Automobile-lock. H. B. Penner. No. 1,395,337; Nov 1.
Automobile-locking apparatus. A. L. F. Wattel. No. 1,395,861; Nov. 1.
Automobile-locking device. J. O. Nidermaier. No. 1,395,970; Nov. 1.
Automobile-wheel lock. H. Kramer. No. 1,395,430; Nov. 1.
Automobiles, Alarm for. D. B. Hershey. No. 1,395,276; Nov. 1.
Automobiles, Floor-board clamp for. C. H. Rockey. No. 1,395,359; Nov. 1.
Automobiles, Foot-operated accelerator for. H. C. Theobold. No. 1,395,371; Nov. 1.
Automobiles, Pedal for operating accelerators of. A. A. Williams. No. 1,395,781; Nov. 1.
Axle and hub, Emergency rear wheel. G. E. Lutsey. No. 1,395,921; Nov. 1.
Bait, Fish-. O. C. Tuttle. No. 1,395,533; Nov. 1.
Balancing signaling systems. W. H. Martin. No. 1,395,854; Nov. 1.
Bale-fork. H. A. Waterman. No. 1,395,602; Nov. 1.
Bale-tie machine. G. W. Whittington. No. 1,395,319; Nov. 1.
Ball-deburring machine. R. H. Bannell. No. 1,395,789; Nov. 1.
Ball-marking device, Golf-. A. G. Hupfel. No. 1,395,413; Nov. 1.
Barrel-cleat. N. A. Ormes. No. 1,395,728; Nov. 1.
Bars, Method of and machine for straightening. G. A. Keenan. No. 1,395,661; Nov. 1.
Bathroom-fixtures, Crimped joint for. W. R. Grierson. No. 1,395,707; Nov. 1.
Battery: *See*—
Storage battery.
Battery-cell, Dry. H. M. Koretsky. Nos. 1,395,281-2; Nov. 1.
Bearing. G. E. Andre. No. 1,395,244; Nov. 1.
Bearing-cages. T. V. Buckwalter. No. 1,395,385; Nov. 1.
Bearing-sleeve puller, Roller-. J. Kray. No. 1,395,502; Nov. 1.
Bearing structures, Producing ball-. C. E. Sorensen. No. 1,395,607; Nov. 1.
Bed, Heated. R. Fureatzi. No. 1,395,912; Nov. 1.
Binding, straightening and cement-applying mechanism, French-. P. B. Glass. No. 1,395,270; Nov. 1.
Binding-tip. S. I. Fekete. No. 1,395,403; Nov. 1.
Blanks, Manufacture of wing-nut. A. Muff. No. 1,395,762; Nov. 1.
Block: *See*—
Building-block. Heel-filler block.
Blowpipe, Combination-. G. L. Walker. No. 1,395,587; Nov. 1.
Boat. C. J. Baer. No. 1,395,689; Nov. 1.
Bodies, Making horny. A. Kohner. No. 1,395,634; Nov. 1.
Body construction. W. G. Well. No. 1,395,538; Nov. 1.
Boiler-furnace. J. H. Stannard, Sr. No. 1,395,610; Nov. 1.
Boilers, Low-water signal for steam-. W. C. Blundell. No. 1,395,550; Nov. 1.
Boll-weevils, Insecticide for. P. Koenig. No. 1,395,910; Nov. 1.
Bolster or pillow-roll support. N. F. Mensure. No. 1,395,506; Nov. 1.
Bolt and retainer therefor. E. A. Schafer. No. 1,395,526; Nov. 1.
Bomb. F. Ranken. No. 1,395,769; Nov. 1.
Bottle-capping tool. M. Kasson. No. 1,395,490; Nov. 1.
Boot, Horse-. J. H. McKenzie. No. 1,395,689; Nov. 1.
Boots, shoes &c., by hand, Adjustable last for use in making and repairing. F. Johnson. No. 1,395,578; Nov. 1.
Box: *See*—
Water-meter box.
Box-making machine. M. J. Milmoe. No. 1,395,446; Nov. 1.
Box or receptacle. R. O. Pfefferle. No. 1,395,584; Nov. 1.
Boxes, Lubricating device for stuffing-. C. J. A. Gottlieb. No. 1,395,815; Nov. 1.
Brace. W. N. Tiencken. No. 1,395,876; Nov. 1.
Bracket: *See*—
Shade-bracket.
Brake-bands, Detachable lining for. J. W. Edell. No. 1,395,670; Nov. 1.
Brake-operating mechanism. C. A. Ward. No. 1,395,540; Nov. 1.
Brake or clutch band lining. W. R. Seigle. No. 1,395,743; Nov. 1.
Brake-shoe. T. H. Sanford. No. 1,395,365; Nov. 1.
Brick and wall construction. S. A. Marsteller. No. 1,395,507; Nov. 1.
Bricks, Manufacture of. W. W. Crawford. No. 1,395,980; Nov. 1.
Brush and sprayer, Bath. J. H. Mulherin. No. 1,395,763; Nov. 1.
Brush-holder. A. T. Lochner. No. 1,395,440; Nov. 1.
Brush, Scrubbing-. J. F. Holland. No. 1,395,495; Nov. 1.
Buckle, Belt-. E. N. Humphrey. No. 1,395,718; Nov. 1.
Building-block. V. E. Easterday. No. 1,395,682; Nov. 1.
Bumper. W. G. Cox. No. 1,395,908; Nov. 1.
Burner: *See*—
Liquid-fuel burner. Oil-burner.
Burners, Gas-saving attachment for. A. Ackron. No. 1,395,979; Nov. 1.
Burnishing-machine. H. M. Loomer. No. 1,395,285; Nov. 1.
Cabinet, Clothes-drying. P. J. Catello. No. 1,395,797; Nov. 1.
Cabinet, Delivery-. T. A. Matthews. No. 1,395,857; Nov. 1.
Cable-reciprocating apparatus. H. McLaren. No. 1,395,850; Nov. 1.
Cableway-operating engine. G. Frink. No. 1,395,673; Nov. 1.
Calculating-machine. F. E. Guy. No. 1,395,983; Nov. 1.
Cam-shaft remover. J. McLachlan. No. 1,395,567; Nov. 1.
Camera, Photographic W. A. Peters. No. 1,395,293; Nov. 1.
Cameras, Loader-magazine frame for photographic. C. Rothmeyer. No. 1,395,860; Nov. 1.
Cameras, Photographic. A. G. Pickard and F. Slinger. No. 1,395,869; Nov. 1.
Car and locomotive replacing frogs, Holder for. D. E. Keith. No. 1,395,582; Nov. 1.
Car-door opener. D. W. Millsaps. No. 1,395,927; Nov. 1.
Car-step. J. R. Mitchell. No. 1,395,589; Nov. 1.

Car-ventilating system. P. B. Bogart. No. 1,395,383; Nov. 1.
Cars, Foldable seat for passenger. J. S. McWharten. No. 1,395,757; Nov. 1.
Cars, Oil-gage for motor-. L. E. Kitchen. No. 1,395,682; Nov. 1.
Carbureter. L. F. Burger. No. 1,395,387; Nov. 1.
Carbureter, Vacuum-. W. J. En Earl. No. 1,395,950; Nov. 1.
Carding-engine. E. Tillotson. No. 1,395,877; Nov. 1.
Carrier: *See*—
Luggage-carrier.
Cartridge, Tea-. B. Hirschhorn. No. 1,395,642; Nov. 1.
Cartridge-magazines, cartridge-belts, strip-chargers, &c., Machine for filling. H. R. Northover. No. 1,395,928; Nov. 1.
Caster, Top-bearing. D. B. Dies. No. 1,395,464; Nov. 1.
Caster-wheel. C. H. Clark. No. 1,395,257; Nov. 1.
Caster-wheel. E. Mawry. No. 1,395,449; Nov. 1.
Cellulose acetate, Manufacture of solutions, preparations, or compositions having a basis of. H. Dreyfus. No. 1,395,401; Nov. 1.
Cellulose ether composition. H. T. Clarke. No. 1,395,905; Nov. 1.
Cementitious blocks, Method and apparatus for casting. G. Atterbury. No. 1,395,662; Nov. 1.
Cereal food and preparing same. M. R. Kelly. No. 1,395,831; Nov. 1.
Chain. R. M. Lanahan. No. 1,395,283; Nov. 1.
Chain-fastener. S. D. Bellows. No. 1,395,896; Nov. 1.
Chain-link connector. H. T. Hughes. No. 1,395,415; Nov. 1.
Chain-tightening lever. W. B. Smith. No. 1,395,605; Nov. 1.
Charcoal, &c., Process and apparatus for producing. J. S. Pearce. No. 1,395,866; Nov. 1.
Chart, Territorial business-. G. M. Ludlow. No. 1,395,848; Nov. 1.
Chasing-machine. J. C. Wahl. No. 1,395,811; Nov. 1.
Check holder and notcher. W. H. Sawyer and A. C. Boyd. No. 1,395,736; Nov. 1.
Check-protecting method. A. F. Bradshaw. No. 1,395,943; Nov. 1.
Chemical apparatus. R. V. Heuser. No. 1,395,661; Nov. 1.
Chiropractic table. J. H. Lage. No. 1,395,646; Nov. 1.
Cigar and cigarette holder. F. P. Williams. No. 1,395,320; Nov. 1.
Cigar-bands, Making. H. Leiman. No. 1,395,842; Nov. 1.
Cigar-lighter for steering-wheels. E. H. Ansbelm. No. 1,395,548; Nov. 1.
Cigar-package. M. Bayuk. No. 1,395,467; Nov. 1.
Circuit-breaker. C. Aalborg. No. 1,395,227; Nov. 1.
Circuit-breaker. J. B. MacNeill. No. 1,395,848; Nov. 1.
Clamp: *See*—
Adjustable clamp. Planking-clamp.
Clamping device. P. A. Hoffman. No. 1,395,535; Nov. 1.
Cleaner: *See*—
Cotton-cleaner. Windshield-cleaner.
Clip: *See*—
Paper-clip.
Cloak and robe lock. F. Sagerman. No. 1,395,525; Nov. 1.
Cloth-holder. C. Englehardt. No. 1,395,635; Nov. 1.
Clothes-washer, Bucket. J. A. Wright. No. 1,395,768; Nov. 1.
Clothespin. T. S. Justus. No. 1,395,424; Nov. 1.
Clutch and brake mechanism. A. J. Lavoie. Nos. 1,395,840–1; Nov. 1.
Clutch for motors. W. J. O'Leary. No. 1,395,269; Nov. 1.
Coatings, Composition for protective. C. E. Palmer. No. 1,395,461; Nov. 1.
Cock, Automatic cylinder-. J. J. Carmichael. No. 1,395,796; Nov. 1.
Cofferdam. H. D. Deam. No. 1,395,631; Nov. 1.
Collars, Retainer for ladies' cape-. M. de la R. Mariquas. No. 1,395,504; Nov. 1.
Commutator-brush-reseating tool. D. W. Ward. No. 1,395,880; Nov. 1.
Concentrator, Centrifugal. W. H. Peck. No. 1,395,517; Nov. 1.
Condenser. J. A. Bishop. No. 1,395,886; Nov. 1.
Condiment-holder. A. O. Roberts. No. 1,395,597; Nov. 1.
Conical straining device. G. W. Ferdon. No. 1,395,951; Nov. 1.
Connection, Crosshead and piston-rod. C. J. A. Gottlieb. No. 1,395,514; Nov. 1.
Container, W. H. Richman. No. 1,395,298; Nov. 1.
Control system. P. L. Mardis. No. 1,395,949; Nov. 1.
Conveyer. C. L. Schladinska. No. 1,395,739; Nov. 1.
Cooking utensils and receptacles, Lid-holder for. W. W. Brown. No. 1,395,554; Nov. 1.
Copper, Hydrometallurgy of. G. A. Bragg. No. 1,395,755; Nov. 1.
Cork-feeding device. T. Allatt. No. 1,395,248; Nov. 1.
Corn-cutting device. D. M. Ryder. No. 1,395,920; Nov. 1.
Cotton cleaner, Seed-. C. C. Biggerstaff. No. 1,395,982; Nov. 1.
Cotton fabrics, Improving. G. A. Bosshard. No. 1,395,472; Nov. 1.
Coupling: *See*—
Truck-coupling.
Coupling-operating mechanism. A. J. Baseley. Nos. 1,395,250–1; Nov. 1.
Culverts, Joints for metal. G. A. Belding. No. 1,395,253; Nov. 1.
Cup: *See*—
Grease-cup.
Current rectifier, Alternating-. C. J. Quill. Nos. 1,395,320–1; Nov. 1.
Curtain-fixture. P. A. Stoddard. No. 1,395,297; Nov. 1.
Cutter: *See*—
Ensilage-cutter. Vegetable-cutter.
Feed-cutter.
Cylinder-reamer. N. Anderson. No. 1,395,245; Nov. 1.
Damper. J. Alafasser. No. 1,395,784; Nov. 1.
Damper, controller, Automatic furnace-. E. J. Henry. No. 1,395,709; Nov. 1.
Damper, Stack-. A. Cotton. No. 1,395,395; Nov. 1.
Dehydrating apparatus. L. S. Crone. No. 1,395,268; Nov. 1.
Dental expansion-arch. W. A. McCarter. No. 1,395,922; Nov. 1.
Desk, Sliding-top. L. S. Crone. No. 1,395,558; Nov. 1.
Diagnostic instrument. H. L. De Zeng. No. 1,395,264; Nov. 1.
Dial-lock. R. C. Lewis. Nos. 1,395,844–5; Nov. 1.
Die: *See*—
Thread-cutting die.
Direction-indicator. W. M. Leedom. No. 1,395,645; Nov. 1.
Dish-washing machine. L. C. and E. G. Wood. No. 1,395,324; Nov. 1.
Dispensing apparatus. D. G. Frazier. No. 1,395,467; Nov. 1.
Dispensing device. A. E. Carlson. No. 1,395,795; Nov. 1.
Dispensing device. I. C. Shaltop. No. 1,395,302; Nov. 1.
Display apparatus. C. E. Dellenbarger. No. 1,395,397; Nov. 1.
Display-easel. A. Josephson. No. 1,395,561; Nov. 1.
Display device. F. S. Gee. No. 1,395,962; Nov. 1.
Display form, Collar-. C. M. Connolly. No. 1,395,557; Nov. 1.
Display-stand. H. M. Hutchins. No. 1,395,419; Nov. 1.
Doll. A. D. McCroskey. No. 1,395,694; Nov. 1.
Door-adjuster. A. Wahns. No. 1,395,429; Nov. 1.
Door, Bulkhead-. O. Stuart. No. 1,395,777; Nov. 1.
Door-latch. A. McCulloch. No. 1,395,698; Nov. 1.
Door structure. A. F. Erickson and D. W. Shisk. No. 1,395,671; Nov. 1.
Doubling-frames, Stop-motion for. W. Stott. No. 1,395,529; Nov. 1.
Drafting-tool. C. F. Minton. No. 1,395,510; Nov. 1.
Drawbar-straightener. N. L. Yarnall. No. 1,395,325; Nov. 1.
Dress-fasteners, Machine for producing spring. K. G. Blomberg and B. A. Pettersson. Nos. 1,395,899–900; Nov. 1.
Drink-mixers, Guard for. H. T. Pierson. No. 1,395,356; Nov. 1.
Dumb-bell. W. Trepanier. No. 1,395,313; Nov. 1.
Dust-guard. T. Cain. No. 1,395,701; Nov. 1.
Dyeing-machine. H. M. Dudley. No. 1,395,669; Nov. 1.
Ear-appliance mounting. H. G. Pape. No. 1,395,864; Nov. 1.
Edge setting and burnishing machine. O. R. Angell. No. 1,395,787; Nov. 1.
Electric-circuit controller. R. Amberton. No. 1,395,886; Nov. 1.
Electric circuits, Terminal for wires of. S. Anthony. No. 1,395,758; Nov. 1.
Electric condenser. C. F. and W. H. Smith. No. 1,395,931; Nov. 1.
Electric contact device. A. A. Kent. No. 1,395,427; Nov. 1.
Electric iron. T. D. Finisio. No. 1,395,635; Nov. 1.
Electric lighting fixture. M. Hershovits. Nos. 1,395,710–11; Nov. 1.
Electric machine, Armature-excited dynamo-. R. E. Hellmund. No. 1,395,244; Nov. 1.
Electric machines, Ventilation of dynamo-. E. A. McCarty. No. 1,395,247; Nov. 1.
Electric machines, Winding for dynamo-. F. T. Hague. No. 1,395,400; Nov. 1.
Electric regulator. W. A. Turbayne. No. 1,395,779; Nov. 1.
Electric system. E. P. Lee. No. 1,395,504; Nov. 1.
Electrolysis, Separating metals by. R. V. Hyblsette. No. 1,395,827; Nov. 1.
Electrolytic cell. J. Gerstle. No. 1,395,704; Nov. 1.
Electrolytic condenser. J. Slepian. Nos. 1,395,304–5; Nov. 1.
Elevator: *See*—
Sheaf-elevator.
Elevator. A. F. Meyer. No. 1,395,986; Nov. 1.
Elevator structure. A. F. Meyer. No. 1,395,985; Nov. 1.
Embroidery-machine. J. E. Hodgson. No. 1,395,961; Nov. 1.
Emery-wheel dresser. C. E. Soderstrom. No. 1,395,606; Nov. 1.
Enameling ware. R. Roadhouse. No. 1,395,732; Nov. 1.
Engine: *See*—
Cablelway-operating engine. Internal-combustion engine
Carding-engine. Piston-engine.
Gas-engine.
Engines, Carbon-removing means for internal-combustion. F. P. Howard. No. 1,395,571; Nov. 1.
Engines, Fuel-supply system for internal-combustion. C. O. Hoffman and W. A. McKinnon. No. 1,395,412; Nov. 1.
Engines, Induction-pipe for radial or rotary internal-combustion. A. H. R. Fedden and L. F. G. Butler. No. 1,395,990; Nov. 1.
Engines, Mechanical starter for explosive-. J. M. Michaelson. No. 1,395,926; Nov. 1.
Engraving-machine. L. J. Most. No. 1,395,861; Nov. 1.

Ensilage-cutter. G. M. Merwin. No. 1,395,445; Nov. 1.
Envelop check-book stub. H. S. Lindmark. No. 1,395,657; Nov. 1.
Envelop-machine. F. E. Arrouquier. No. 1,395,220; Nov. 1.
Excavating-machines, Sight-arm attachment for. C. L. George. No. 1,395,810; Nov. 1.
Explosive, and manufacturing same. W. O. Snelling. No. 1,395,775; Nov. 1.
Explosives, Conductor for mine. R. L. Bowman. Nos. 1,395,791–2; Nov. 1.
Extractor: *See*—
Nail-extractor.
Eyeglasses, Attachment for. L. J. Zimmerman. No. 1,395,626; Nov. 1.
Farm-gate. T. Hunton. No. 1,395,574; Nov. 1.
Fastening device. J. T. Binkley. No. 1,395,627; Nov. 1.
Fastening device. F. B. Marbert. No. 1,395,443; Nov. 1.
Fastening device. R. S. Peirce. No. 1,395,458; Nov. 1.
Fats, Separating fatty acids from vegetable and animal. L. Schmidt. No. 1,395,666; Nov. 1.
Faucet attachment. F. P. Williams. Nos. 1,395,321–2; Nov. 1.
Feed, Automatic stack-. J. Murray. No. 1,395,862; Nov. 1.
Feed-cutter. E. O. Williams. No. 1,395,622; Nov. 1.
Feed-trough. D. R. Stuart. No. 1,395,807; Nov. 1.
Fence-staple. C. A. Beckwith. No. 1,395,894; Nov. 1.
Fibrous material, Machine for producing small strips of. G. Türk. No. 1,395,751; Nov. 1.
File, Account-. W. Barr. No. 1,395,892; Nov. 1.
Filling-machine. F. E. Sladde. No. 1,395,851; Nov. 1.
Filtering-mat. F. B. Kling and L. B. Weidlein. No. 1,395,533; Nov. 1.
Fire-door. R. J. G. Phillips. No. 1,395,766; Nov. 1.
Firearm. O. Buhl. No. 1,395,903; Nov. 1.
Firearm. J. D. Pedersen. Nos. 1,395,291–2; Nov. 1.
Firearm, Breech-loading. E. H. Searle. No. 1,395,455; Nov. 1.
Flexible operating mechanism. P. L. Billingsley. No. 1,395,626; Nov. 1.
Fluid-heater. W. A. and J. A. Doble. No. 1,395,399; Nov. 1.
Food composition and preparing same, Animal. L. C. Sharp. No. 1,395,746; Nov. 1.
Food product. F. W. Stockton. No. 1,395,934; Nov. 1.
Foot Arch-support for the human. M. Keppner. No. 1,395,486; Nov. 1.
Foot-rest. E. H. Coble. No. 1,395,000; Nov. 1.
Forceps. A. B. Johnson. No. 1,395,714; Nov. 1.
Fork: *See*—
Bale-fork.
Forming-machine. F. L. Walter. No. 1,395,935; Nov. 1.
Fountain, Drinking-. R. T. Webster. No. 1,395,574; Nov. 1.
Frame: *See*—
Hacksaw-frame. Motorcycle-frame.
Fruit-sizing machine. W. K. Price. (Reissue.) No. 15,218; Nov. 1.
Fruit, vegetables, and the like, Apparatus for cutting. J. B. Kennedy. No. 1,395,425; Nov. 1.
Fuel-agitator. A. H. Corum. No. 1,395,801; Nov. 1.
Furnace: *See*—
Boiler-furnace. Glass-melting furnace.
Game. J. B. Ley. No. 1,395,545; Nov. 1.
Game. F. H. Anderson. No. 1,395,786; Nov. 1.
Game. W. Fogteberg. No. 1,395,494; Nov. 1.
Game. G. A. Kelley. No. 1,395,643; Nov. 1.
Game apparatus, Ball-dispensing device for. H. C. Granlia. No. 1,395,705; Nov. 1.
Garment-hanger. H. Measaros. No. 1,395,287; Nov. 1.
Garment-press. H. E. Chase. No. 1,395,667; Nov. 1.
Gas-burner attachment. J. R. Flick. No. 1,395,404; Nov. 1.
Gas-engine. J. Scholtz. No. 1,395,858; Nov. 1.
Gas-engine governor. E. G. Staude. No. 1,395,932; Nov. 1.
Gas-generators, Coxy for portable. D. C. and R. C. Duncan. No. 1,395,485; Nov. 1.
Gas lighter and extinguisher, Automatic. V. Forti. No. 1,395,567; Nov. 1.
Gas-mask. W. Kops. Nos. 1,395,835–7; Nov. 1.
Gas-mask. E. Monro. Nos. 1,395,758–60; Nov. 1.
Gas-mask. E. Monro and E. Klauber. No. 1,395,761; Nov. 1.
Gas-separating apparatus, Regulating means for. E. A. Barbet. No. 1,395,466; Nov. 1.
Gases, Apparatus for determining the amount of certain constituents in. E. H. Delany and S. H. Payne. No. 1,395,580; Nov. 1.
Gasolene, Apparatus for purifying. W. A. Allinson. No. 1,395,694; Nov. 1.
Gate: *See*—
Farm-gate.
Gates, Dead-lock for end drop-. C. C. Breakfield. No. 1,395,629; Nov. 1.
Gear-testing mechanism. O. C. Kavle. No. 1,395,582; Nov. 1.
Generator: *See*—
Steam-generator.
Glass-melting furnace. L. L. Mount. No. 1,395,591; Nov. 1.
Glass, Multiple looking-. E. V. Gerber. No. 1,395,812; Nov. 1.
Glass tubes, Method of and apparatus for forming. K. Kuppers. No. 1,395,963; Nov. 1.
Grate-grill stove, Ventilated. W. A. Caldwell. (Reissue.) No. 15,217; Nov. 1.
Grate. W. L. Merstetter. No. 1,395,444; Nov. 1.
Grate stoker, Traveling-. W. M. Duncan. No. 1,395,486; Nov. 1.
Grates, Operating device for shaping. L. Budd. No. 1,395,478; Nov. 1.
Grease and oil cup. J. W. Franz. No. 1,395,400; Nov. 1.
Grease-cup. L. G. Copeman. No. 1,395,356; Nov. 1.
Grease-plug, Self-locking. F. H. Cook. No. 1,395,269; Nov. 1.
Grinding two cylindrical machine parts at the same time, Compound grinding-head for. T. F. Bernard. No. 1,395,790; Nov. 1.
Grinding-wheels, Device for truing and dressing. E. R. Conners. Nos. 1,395,391–2; Nov. 1.
Grinding-wheels, Mechanism for truing and dressing. E. R. Conners. Nos. 1,395,393–4; Nov. 1.
Grooves, Means for gaging the diameters of internal annular. F. Pountney. No. 1,395,768; Nov. 1.
Gun, Double-barreled. J. T. Thompson. No. 1,395,469; Nov. 1.
Gun, Non-recoil. C. Davis. No. 1,395,620; Nov. 1.
Hacksaw-frame. S. J. Morgan. No. 1,395,511; Nov. 1.
Hair-cutting implement. M. B. Behrman. No. 1,395,534; Nov. 1.
Hair-waver. A. Schärer. No. 1,395,774; Nov. 1.
Hanger: *See*—
Garment-hanger. Sash-hanger.
Harrow and drag, Convertible. J. W. Taylor. No. 1,395,450; Nov. 1.
Harvester, Cotton-. G. S. Knox. No. 1,395,644; Nov. 1.
Headlight, Dirigible. F. E. Shafer. No. 1,395,746; Nov. 1.
Headlight, Vehicle-. A. and R. K. Brake. No. 1,395,699; Nov. 1.
Heater: *See*—
Fluid-heater. Water-heater.
Multiple-unit electric heater.
Heating system. J. H. Hunt. No. 1,395,496; Nov. 1.
Heddling and warping. W. F. Grupe. No. 1,395,818; Nov. 1.
Heel-filler block. J. E. Emond. No. 1,395,804; Nov. 1.
Heel-nailing machine. J. T. Lancaster. No. 1,395,695; Nov. 1.
Heel, Resilient. F. Graffes. No. 1,395,842; Nov. 1.
Heel, Shoe-. E. O. Schlosser and H. Schneider. No. 1,395,740; Nov. 1.
Heel, Shoe-. F. J. Walker. No. 1,395,535; Nov. 1.
Heel, Unattached. R. Cutts. No. 1,395,926; Nov. 1.
Hinge. J. M. Ornamaat. No. 1,395,683; Nov. 1.
Hoist and hopper, Combined. M. C. Maxwell. No. 1,395,958; Nov. 1.
Hoisting apparatus. H. Sawyer. No. 1,395,735; Nov. 1.
Hook: *See*—
Mud-hook.
Hose-couplings, Safety positive lock for. R. E. Gold. No. 1,395,273; Nov. 1.
Hose-supporter. W. S. Hunkins. Nos. 1,395,416–17; Nov. 1.
Hub construction. H. Ford. No. 1,395,913; Nov. 1.
Humidifier. F. B. Sarbeck. No. 1,395,776; Nov. 1.
Hydrocarbons, Manufacture of. C. Wiezmann and D. A. Legg. No. 1,395,620; Nov. 1.
Hydrogen from gaseous mixtures, Extraction of. G. Claude. No. 1,395,389; Nov. 1.
Ice-cream, Means for dispensing. G. V. Pors. No. 1,395,654; Nov. 1.
Ice-cream, Means for feeding and cutting. G. V. Pors. No. 1,395,655; Nov. 1.
Ice-machine. P. Hessel. No. 1,395,411; Nov. 1.
Ignition apparatus. A. C. Kleckner. No. 1,395,420; Nov. 1.
Ignition apparatus. W. B. Moses. No. 1,395,590; Nov. 1.
Ignition switch. W. Kaisling. No. 1,395,679; Nov. 1.
Impregnating porous or bibulous materials and the product thereof. W. R. Seigle. No. 1,395,744; Nov. 1.
Incubator. H. Gentis. No. 1,395,955; Nov. 1.
Indicator: *See*—
Direction-indicator. Station-indicator.
Inner tube. L. H. Lightfoot. No. 1,395,439; Nov. 1.
Insecticide. J. F. Moseley. No. 1,395,860; Nov. 1.
Intaglios, Coloring. M. B. Adelsperger. No. 1,395,379; Nov. 1.
Intermittent-motion mechanism. C. E. Bianchi. No. 1,395,002; Nov. 1.
Internal-combustion engine, Rotary. J. W. George. No. 1,395,995; Nov. 1.
Iron: *See*—
Electric iron. Pressing-iron.
Ironing machine, Collar-. D. Kishima. No. 1,395,501; Nov. 1.
Jack: *See*—
Lifting-jack. Self-lowering jack.
Jack and puller, Combined. A. E. Clements. No. 1,395,945; Nov. 1.
Jack device, Automatic motor-vehicle. G. H. Williams. No. 1,395,543; Nov. 1.
Joint: *See*—
Pipe-joint.

Joint for structures. A. Dudynsky. No. 1,295,402; Nov. 1.
Journal-box and mounting. J. R. Fleming. No. 1,295,467; Nov. 1.
Key-reminder. M. Bayerdorffer. No. 1,295,532; Nov. 1.
Kiln for burning any and all sorts of clay products, glazed ware, and pottery. H. Webster. No. 1,295,462; Nov. 1.
Knob-lock. L. Huffman. No. 1,295,414; Nov. 1.
Ladder support, Flexible. S. T. Dreskynski. No. 1,295,543; Nov. 1.
Lamp. W. W. Graf. No. 1,295,490; Nov. 1.
Lamp shade and tester. V. A. Guy. No. 1,295,819; Nov. 1.
Lamp-support, Adjustable. W. Lorey. No. 1,295,647; Nov. 1.
Landscape. I. H. Jarvis. No. 1,295,575; Nov. 1.
Last-measuring machine. F. H. Thompson. No. 1,295,310; Nov. 1.
Latch. G. Frank. No. 1,295,568; Nov. 1.
Latch for doors, &c. W. H. Sheehan and J. W. Eckard. No. 1,295,527; Nov. 1.
Latch, Setting-. L. B. Baker. No. 1,295,391; Nov. 1.
Lead, Desilvering. H. Harris. No. 1,295,520; Nov. 1.
Leg-band, Spiral. M. Bayerdorffer. No. 1,295,533; Nov. 1.
Lens attachment. E. D. Tillyer. No. 1,295,511; Nov. 1.
License-certificates, Display-case for. S. R. Sesse. No. 1,295,909; Nov. 1.
License-plate, Illuminated. L. R. Grannis. No. 1,295,491; Nov. 1.
Lid-support. F. Oberst. No. 1,295,550; Nov. 1.
Lifter: *See*—
Valve-lifter.
Lifting-jack. W. N. Hansen. No. 1,295,821; Nov. 1.
Lifting-jack. G. W. Meyer and C. A. Roos. No. 1,295,650; Nov. 1.
Lifting-jacks, Speed-retarding device for. F. L. Gormley. No. 1,295,340; Nov. 1.
Lighting system, Time-controlled. F. H. Finke. No. 1,295,806; Nov. 1.
Link, Spring-. O. Wheeler. No. 1,295,780; Nov. 1.
Liquid-containers, Automatic drain-back for elevated. L. E. Baker. No. 1,295,890; Nov. 1.
Liquid-dispensing apparatus. W. S. Foland. No. 1,295,405; Nov. 1.
Liquid-dispensing apparatus, Self-measuring. L. E. Baker. No. 1,295,696; Nov. 1.
Liquid-fuel burner. J. D. Lord. No. 1,295,846; Nov. 1.
Liquid or semiliquid materials, Apparatus for use in preparing. L. A. Wehle. No. 1,295,753; Nov. 1.
Liquid-supplying apparatus. M. Parnes. No. 1,295,516; Nov. 1.
Loading and unloading device. H. W. Thorn. No. 1,295,749; Nov. 1.
Lock: *See*—
Automobile-lock. Steering-wheel lock.
Automobile-wheel lock. Switch-lock.
Dial-lock. Valve-lock.
Knob-lock. Ventilating-sash lock.
Pedal-lock. Window-lock.
Lock. J. H. Giles. No. 1,295,636; Nov. 1.
Locking device. E. Madison. No. 1,295,721; Nov. 1.
Locomotives, Booster-engine for steam-. R. M. Brown. No. 1,295,476; Nov. 1.
Locomotives, Classification-signal for. S. B. Yates. No. 1,295,220; Nov. 1.
Locomotives, Steam-supply means for cylinders of railway-. S. H. Lewis. No. 1,295,648; Nov. 1.
Loom attachment. C. E. Chambers. No. 1,295,904; Nov. 1.
Loose-sheet device. G. P. Wigginton. No. 1,295,754; Nov. 1.
Luggage-carrier. H. G. Voight. No. 1,295,815; Nov. 1.
Luggage-carrier for automobiles. C. R. Standley. No. 1,295,457; Nov. 1.
Lumber edging and matching machine. H. A. Gale. No. 1,295,408; Nov. 1.
Magnetic spring. E. Liebau. No. 1,295,437; Nov. 1.
Mail-signaling hook. N. L. Tooker. No. 1,295,572; Nov. 1.
Manifold, Intake-. B. Iver. No. 1,295,677; Nov. 1.
Manifold-sheets, Alinement device for. A. S. Burke. No. 1,295,255; Nov. 1.
Map, Road-. E. W. Mason and C. D. Miller. Nos. 1,295,508-9; Nov. 1.
Marker or indicator. C. Wofford. No. 1,295,323; Nov. 1.
Mat: *See*—
Filtering-mat.
Match and toothpick dispenser. J. D. Byer. No. 1,295,885; Nov. 1.
Matches, Machine for cutting cardboard strips for making. P. Bosmo. No. 1,295,473; Nov. 1.
Mattress. T. Wallace. No. 1,295,879; Nov. 1.
Mausoleum. W. McMeans. No. 1,295,852; Nov. 1.
Measuring and dispensing apparatus, Locking control for power-operated. L. E. Baker. No. 1,295,697; Nov. 1.
Measuring instrument. W. Nernst. No. 1,295,653; Nov. 1.
Measuring instrument. R. T. Pierce. No. 1,295,294; Nov. 1.
Measuring instrument, Electrical. L. W. Chubb. No. 1,295,235; Nov. 1.
Measuring instrument transformers, Method and apparatus for calibrating. H. N. Stroh. No. 1,295,308; Nov. 1.
Meat and like provisions, Machine for stuffing. C. Merli and G. Bertolini. No. 1,295,967; Nov. 1.
Metal bars, Apparatus for twisting. W. Stubbs. No. 1,295,617; Nov. 1.
Metallic article. C. L. Gebauer. No. 1,295,270; Nov. 1.
Milling-machine. H. H. Wanders. No. 1,295,573; Nov. 1.
Mineral or coal separating jig. H. D. Kostenbauder. No. 1,295,710; Nov. 1.
Mines, Ventilating signal appliance for. J. P. Gamille. No. 1,295,954; Nov. 1.
Mining-machine. M. P. Hobson. No. 1,295,906; Nov. 1.
Mining-machine. N. D. Levin. No. 1,295,947; Nov. 1.
Mirror-holder. R. Martini. No. 1,295,856; Nov. 1.
Mold: *See*—
Tire-vulcanizing mold.
Molds, Clamping device for. D. J. Brophy. No. 1,295,553; Nov. 1.
Motor: *See*—
Rotary motor.
Motorcycle-frame. G. B. Bigby. No. 1,295,358; Nov. 1.
Mud-hook. W. G. Pfeiffer. No. 1,295,968; Nov. 1.
Muffler. R. Lissmechek. No. 1,295,620; Nov. 1.
Multiple-unit electric heater. W. A. Kennedy and A. J. Mottina. No. 1,295,554; Nov. 1.
Musical instruments, Air-motor for automatic. C. V. Jamieson. No. 1,295,278; Nov. 1.
Nail-extractor. T. D. Richardson. No. 1,295,522; Nov. 1.
Neat, Trap-. S. C. Balding. No. 1,295,942; Nov. 1.
Nitrates, &c., Treating undried organic. W. O. Snelling. No. 1,295,776; Nov. 1.
Nitric acid, Concentration of. O. Jensen. No. 1,295,577; Nov. 1.
Non-skid chain-fastening means. B. F. Hosley. No. 1,295,712; Nov. 1.
Nozzle, Spray-. P. G. MacGregor. No. 1,295,442; Nov. 1.
Numbering-machine. A. J. Marks. No. 1,295,723; Nov. 1.
Oil-burner. W. Hooper. No. 1,295,224; Nov. 1.
Oil-burner. A. O. Tesch. No. 1,295,748; Nov. 1.
Oil-burner, Automatically-actuated. H. L. Sweeney. No. 1,295,551; Nov. 1.
Oil-burners, Bench for handling. W. A. Mason. No. 1,295,856; Nov. 1.
Oil-well packer. P. H. Mack. Nos. 1,295,718-19; Nov. 1.
Oils, Machine for testing lubricating-. H. E. Moore. No. 1,295,448; Nov. 1.
Optical projecting system. H. P. Gage. No. 1,295,238; Nov. 1.
Ore-crusher. J. Herman. No. 1,295,959; Nov. 1.
Ores, Treatment of zinc-bearing. H. W. Gepp. No. 1,295,811; Nov. 1.
Ornamentations and finished article derived therefrom, Manufacturing. G. J. Hagel. No. 1,295,911; Nov. 1.
Oscillation-generating system. L. M. Clement. No. 1,295,290; Nov. 1.
Oven. E. W. Rogers. No. 1,295,524; Nov. 1.
Overwinding-preventer. D. E. Odom. No. 1,295,592; Nov. 1.
Package. E. H. Angier. No. 1,295,661; Nov. 1.
Packing or filling material, Apparatus for manufacturing resilient. C. T. Ripley. No. 1,295,299; Nov. 1.
Packing-table. C. W. Obermatt. No. 1,295,727; Nov. 1.
Paints, varnishes, enamels, &c., Drying or setting. H. B. and F. E. Hartman. No. 1,295,598; Nov. 1.
Pallet. C. A. Deasey. No. 1,295,488; Nov. 1.
Pan handle and support, Combined. A. Sechrist. No. 1,295,201; Nov. 1.
Paper can, Oilproof and greaseproof. T. M. Godfrey. No. 1,295,272; Nov. 1.
Paper-clip. J. T. Du Bois and F. B. Harter. No. 1,295,503; Nov. 1.
Papering machine, Wall-. S. Pytlak. No. 1,295,519; Nov. 1.
Parallaling-machine. H. L. Clark and J. H. Bower. No. 1,295,253; Nov. 1.
Pavement, Wood-block. H. G. Jennison. No. 1,295,829; Nov. 1.
Paving composition and making same. C. A. C. de Caudemberg. No. 1,295,306; Nov. 1.
Pedal-lock. J. C. McManus. No. 1,295,966; Nov. 1.
Pen, Fountain-. H. J. Upton. No. 1,295,878; Nov. 1.
Pencil attachment. J. L. Broschart. No. 1,295,793; Nov. 1.
Penholder. H. Kerlin and J. R. Malaney. No. 1,295,428; Nov. 1.
Perborates, Manufacture of. O. Liebknecht. No. 1,295,684; Nov. 1.
Perborates, Manufacture of alkali. O. Liebknecht. No. 1,295,685; Nov. 1.
Phonographs, Rewind device for. J. H. Dickinson and L. G. Collier. No. 1,295,802; Nov. 1.
Picture machines, Safety device for moving-. C. F. Mehl, H. B. Liebler, J. Nall, and E. J. Nobbe. No. 1,295,724; Nov. 1.
Picture stage illusion, Motion-. O. A. Owen. No. 1,295,518; Nov. 1.
Pile-driving machine. A. M. Bellomy. No. 1,295,895; Nov. 1.
Pin: *See*—
Wrist-pin.
Pipe: *See*—
Tobacco-pipe.
Pipe, Apparatus for handling sewer-. W. H. Mayhew. No. 1,295,585; Nov. 1.
Pipe-joint. R. Porter. No. 1,295,892; Nov. 1.
Piston. E. C. Long. No. 1,295,441; Nov. 1.
Piston-engine. E. A. Brueggen. No. 1,295,794; Nov. 1.
Piston-packing. H. Skari. No. 1,295,628; Nov. 1.
Piston-ring. J. H. Schreiber. No. 1,295,366; Nov. 1.
Pitman construction. J. H. Oneil. No. 1,295,971; Nov. 1.

Planking-clamp. P. H. Fisher. No. 1,295,506; Nov. 1.
Planter. W. C. Catlett. No. 1,295,796; Nov. 1.
Plow and pulverizer. P. J. Tate. No. 1,295,370; Nov. 1.
Plow, Multiple. M. Mondriuk. No. 1,295,447; Nov. 1.
Popcorn-sifting machine. E. E. Knott. No. 1,295,715; Nov. 1.
Portioning mechanism. J. F. Wineland. No. 1,295,978; Nov. 1.
Potato-seed-cutting machine. G. A. Davidson. No. 1,295,482; Nov. 1.
Power mechanism. J. M. Hughes. No. 1,295,578; Nov. 1.
Press: *See*—
Garment-press.
Press. W. P. Burditt, Jr. No. 1,295,886; Nov. 1.
Press. A. J. Straine. No. 1,295,550; Nov. 1.
Pressing-iron. H. W. Peth. No. 1,295,355; Nov. 1.
Pressing-machines, Safety attachment for. C. L. Braley and S. Prestwich. No. 1,295,666; Nov. 1.
Printing apparatus. R. Adams. No. 1,295,528; Nov. 1.
Printing-press inking-roller truck. L. J. Warner. No. 1,295,817; Nov. 1.
Printing-press inking-roller trucks, Wheel for. L. J. Warner. No. 1,295,318; Nov. 1.
Printing-presses, Feed-table for. I. Berkowitz. No. 1,295,697; Nov. 1.
Proteins, Manufacture of articles from. H. Plauson. No. 1,295,720; Nov. 1.
Puller: *See*—
Bearing-sleeve puller.
Pulp tubes, Machine for making. W. R. Seigle. No. 1,295,742; Nov. 1.
Pump, Air-. C. E. Anderson. No. 1,295,546; Nov. 1.
Pump, Double-balance centrifugal. W. R., H. J., and E. M. Woock. No. 1,295,464; Nov. 1.
Pump for operating systems, Gas-. C. E. Anderson. No. 1,295,547; Nov. 1.
Pump, Rotary. A. Hayes. Nos. 1,295,916-7; Nov. 1.
Pump-support. C. B. Harbaugh. No. 1,295,275; Nov. 1.
Rack. A. G. Bumgardner. No. 1,295,969; Nov. 1.
Radiator. O. E. Werneke. No. 1,295,883; Nov. 1.
Radiator-tanks, Alarm mechanism for. L. C. Gobets. No. 1,295,271; Nov. 1.
Radiator-tube and producing same. G. W. Turney. No. 1,295,618; Nov. 1.
Radiosignaling system. J. H. Rogers. No. 1,295,454; Nov. 1.
Rail. R. Feibelmann. No. 1,295,805; Nov. 1.
Rail-fastener. J. B. Respess. No. 1,295,896; Nov. 1.
Rails, switch-points, frogs, and crossings. N. H. Bray. No. 1,295,474; Nov. 1.
Railway-crossing. B. T. Gibbs, Jr. No. 1,295,339; Nov. 1.
Railway-flagman's carriage. E. A. W. Davis. No. 1,295,559; Nov. 1.
Railway, Pleasure-. G. A. Schmidt. No. 1,295,657; Nov. 1.
Railway-rails to their sleepers, Device for securing. E. Bellan and H. L. Laino. No. 1,295,663; Nov. 1.
Railway-tie. H. E. Wherley. No. 1,295,541; Nov. 1.
Railways, Rail-spiking device for. N. Ekberg. No. 1,295,708; Nov. 1.
Ram for raising water, Hydraulic. R. C. Green. No. 1,295,243; Nov. 1.
Refrigerator. B. H. Roy. No. 1,295,598; Nov. 1.
Regulator: *See*—
Electric regulator.
Reproducer. A. Atlas. No. 1,295,937; Nov. 1.
Resilient wheel. H. S. Lancaster. No. 1,295,435; Nov. 1.
Resin, Preparing. S. P. Miller. No. 1,295,968; Nov. 1.
Resistance-switch. C. B. Jones. No. 1,295,579; Nov. 1.
Respiratory apparatus, Helmet and mask for use with. A. B. Dräger. No. 1,295,948; Nov. 1.
Ring: *See*—
Piston-ring.
Ring. W. G. Ginder. No. 1,295,488; Nov. 1.
Road-working machine. D. C. Mowry. No. 1,295,450; Nov. 1.
Rocking and revolving chair, Combined. C. E. Baum and R. A. Peacock. No. 1,295,696; Nov. 1.
Roost, Chicken-. J. W. McCoy. No. 1,295,849; Nov. 1.
Rotary motor. W. H. Fisher. No. 1,295,267; Nov. 1.
Rubber strips, Method and apparatus for marking. R. P. Hassler. No. 1,295,410; Nov. 1.
Rubber with comminuted metal, Mixing. H. A. Hoffman and W. H. Juve. No. 1,295,413; Nov. 1.
Rust-preventing process. D. Reichinstein. No. 1,295,730; Nov. 1.
Safe, Portable. M. C. Regan. No. 1,295,771; Nov. 1.
Sand, gravel, and stone cleaning machine. F. and I. Le Cocq. No. 1,295,717; Nov. 1.
Sandpapering-machine. M. L. Beal. No. 1,295,468; Nov. 1.
Sanitary food-cover. J. W. Riley. No. 1,295,976; Nov. 1.
Sanitary vending-tray for eatables. J. W. Riley. No. 1,295,975; Nov. 1.
Sash-hanger. J. F. Brodowski. No. 1,295,384; Nov. 1.
Saw. E. L. Griffin. No. 1,295,957; Nov. 1.
Scaffold. G. J. Lux and J. Wilcox. No. 1,295,346; Nov. 1.
Scoop-board and end-gate. G. W. Sanders. No. 1,295,300; Nov. 1.
Scoop-bucket, Drag-line. H. M. Sherwood. No. 1,295,988; Nov. 1.
Scouring device. A. Motter. No. 1,295,652; Nov. 1.
Scraping cylindrical surfaces, Tool for. R. D. Hescox. No. 1,295,823; Nov. 1.
Screen: *See*—
Window-screen.
Screen, Rolling. J. A. Bried. No. 1,295,475; Nov. 1.
Self-lowering jack. F. L. Gormley. No. 1,295,341; Nov. 1.
Self-lubricating spring. F. R. Harrington. No. 1,295,494; Nov. 1.
Sewer-rodding tray. B. D. Jacovett. No. 1,295,828; Nov. 1.
Sewing-machine. C. H. T. Hagelstein. No. 1,295,274; Nov. 1.
Sewing-machines, Motor attachment for. M. Hemleb. No. 1,295,640; Nov. 1.
Shade-bracket. E. C. Pixley. No. 1,295,870; Nov. 1.
Shank and bit punch. J. Ditson. No. 1,295,702; Nov. 1.
Shank and bit punch. W. A. Smith. No. 1,295,747; Nov. 1.
Shark-skins, &c., Treating. A. Rogers. No. 1,295,773; Nov. 1.
Sheaf-elevator. A. M. Dellinger. No. 1,295,561; Nov. 1.
Sheet-handling machine. C. E. Dellenbarger. No. 1,295,909; Nov. 1.
Ship-protector. F. Geroianne. No. 1,295,813; Nov. 1.
Ship-retarding device. L. Jonesic. No. 1,295,590; Nov. 1.
Shock-absorber. C. C. Blackmore. No. 1,295,471; Nov. 1.
Shock-absorber. W. B. Redfield. No. 1,295,974; Nov. 1.
Shock-absorbing mechanism, Friction. J. F. O'Connor. Nos. 1,295,561-2; Nov. 1.
Shoe. M. G. Grandmann. No. 1,295,639; Nov. 1.
Shoe-upper. H. Holden. No. 1,295,277; Nov. 1.
Shoes, Machine for turning. J. E. Scott. No. 1,295,741; Nov. 1.
Shore, Adjustable. G. W. Meyer and C. A. Roos. No. 1,295,649; Nov. 1.
Signal: *See*—
Auto warning-signal. Warning-signal.
Socket-wrench. T. S. Kizer. No. 1,295,585; Nov. 1.
Sole, Detachable dancing-. T. S. Hamilton. No. 1,295,958; Nov. 1.
Solvents, Recovering volatile. H. P. Bassett and S. S. Sadtler. No. 1,295,940; Nov. 1.
Sound-boxes, Stylus-bar mounting for. H. Y. Prendergast. No. 1,295,972; Nov. 1.
Sound-reproducing apparatus, Resonance-chamber for. H. Schroder. No. 1,295,602; Nov. 1.
Soundings, Apparatus for taking. P. S. Hudson. No. 1,295,572; Nov. 1.
Sign. H. H. Marriott. No. 1,295,853; Nov. 1.
Sign. W. T. Wheatley. No. 1,295,621; Nov. 1.
Signal-control mechanism. W. E. Possinger and G. T. Cunningham. No. 1,295,767; Nov. 1.
Signal-controlling device. G. M. Dowe. No. 1,295,562; Nov. 1.
Signaling device, Mileage-period-. C. S. Burton. No. 1,295,256; Nov. 1.
Signaling, Secret. R. H. Wilson. No. 1,295,378; Nov. 1.
Signaling system, Supervisory. R. M. Hopkins. No. 1,295,826; Nov. 1.
Slack-adjuster. B. Schechter. No. 1,295,738; Nov. 1.
Slicing-machines, Holder for. C. F. M. van Berkel. No. 1,295,690; Nov. 1.
Smoke and testing porous material thereby, Method and apparatus for generating. A. Abrams. No. 1,295,247; Nov. 1.
Spark-intensifier. P. A. Schaefer. No. 1,295,737; Nov. 1.
Spark-plug. M. M. McCoy. No. 1,295,923; Nov. 1.
Spark-plug-coil unit. R. H. Whisler. No. 1,295,875; Nov. 1.
Spark-plugs, Machine for cleaning. A. White. No. 1,295,376; Nov. 1.
Spark-plugs, Testing device for. G. S. P. Holland, Jr. No. 1,295,570; Nov. 1.
Speed-indicating instrument. L. J. Grubman and G. A. Duden. No. 1,295,635; Nov. 1.
Spike-puller. J. B. Gillis, R. J. Rhodes, and H. J. Lowe. No. 1,295,956; Nov. 1.
Spike-puller, Combination. J. F. Fenton. No. 1,295,266; Nov. 1.
Spinning-frames, Front-roll stand for. D. C. Leonard and A. P. Greer. No. 1,295,284; Nov. 1.
Splitting and buffing machine. F. M. Furber. No. 1,295,268; Nov. 1.
Spout, Distributing-. F. W. Cooley. No. 1,295,947; Nov. 1.
Spring: *See*—
Self-lubricating spring.
Spring, Cushion-. G. P. Johnson. No. 1,295,421; Nov. 1.
Spring suspension, Air-. R. Liebau. No. 1,295,438; Nov. 1.
Sprocket-chain guide. I. N. Babbitt. No. 1,295,330; Nov. 1.
Squeegee. J. F. Nelson. No. 1,295,863; Nov. 1.
Stacker, Extension swinging. G. L. Murphy. No. 1,295,512; Nov. 1.
Staging-support. M. F. Sykes. No. 1,295,308; Nov. 1.
Stamping-machines, Work and material holder for. W. E. Choate. No. 1,295,555; Nov. 1.
Stanchion, Self-closing. F. E. Webb. No. 1,295,882; Nov. 1.
Stand: *See*—
Display-stand. Switch-stand.
Starting and ignition system. U. D. Garver. No. 1,295,809; Nov. 1.
Station-indicator. C. M. Gravatt. No. 1,295,816; Nov. 1.
Staybolt structure. R. S. Mennie. No. 1,295,286; Nov. 1.
Steam-generator, Portable. W. R. Prosser and A. E. Higgins. No. 1,295,973; Nov. 1.

Steam-generators, System for regulating mechanical stokers for. T. M. Wilkins. No. 1,895,377; Nov. 1.
Steering-wheel and forming same. C. W. Book. No. 1,895,598; Nov. 1.
Steering-wheel lock. T. D. Stanley. Nos. 1,895,668-9; Nov. 1.
Steering-wheels, Theft-preventing attachment for. R. H. Tilden. No. 1,895,552; Nov. 1.
Stereoscope. H. A. de Vry. No. 1,895,396; Nov. 1.
Storage battery. S. J. Leveen. No. 1,895,668; Nov. 1.
Storage-battery construction. W. P. Loudon. No. 1,895,902; Nov. 1.
Stove. P. Kranz. No. 1,895,488; Nov. 1.
Stove attachment. E. W. Rogers. No. 1,895,523; Nov. 1.
Stove, Brooder-. J. B. Krusky. No. 1,895,431; Nov. 1.
Stove, Gas-. J. E. Toscan. No. 1,895,812; Nov. 1.
Stoves, Combined burner structure for gas-. B. L. Claus. No. 1,895,799; Nov. 1.
Strainer, Electrically-heated oil-. W. B. Eckman. No. 1,895,949; Nov. 1.
Stud-driver. F. A. Barnes and E. G. Herbst. No. 1,895,920; Nov. 1.
Submerged objects, such as submarine torpedoes, Towing. P. P. Magenau. No. 1,895,994; Nov. 1.
Sweepers, Brushing mechanism for. J. B. Kirby. No. 1,895,590; Nov. 1.
Swim apparatus, Dry-. G. A. Fischer. No. 1,895,672; Nov. 1.
Swimming device. O. W. Grundmann. No. 1,895,914; Nov. 1.
Switch: *See*—
Ignition-switch. Resistance-switch.
Switch device, Non-arcing commutating. L. Fenlere. No. 1,895,290; Nov. 1.
Switch-stand. C. Partington. No. 1,895,953; Nov. 1.
Table: *See*—
Chiropractic table.
Tank: *See*—
Tarpaulin: *See*—
Telescope, Lens system for terrestrial. C. S. Williams. No. [illegible]; Nov. 1.
Telescope-centering device, Automatic. T. J. Sullivan. No. [illegible]; Nov. 1.
Threshing-machine. J. C. Starling. No. 1,895,671; Nov. 1.
Thread-cutting die. E. R. Beck. No. [illegible]; Nov. 1.
Thread-remover. G. F. Yost. No. [illegible]; Nov. 1.
Throttle-pedal. D. Mills. No. 1,895,681; Nov. 1.
Ticket-issuing machine. G. A. Julius and F. A. Wilkinson. No. 1,895,279; Nov. 1.
Tie: *See*—
Railway-tie.
Tie-plate and rail anchor, Combined. W. P. Ward. No. 1,895,901; Nov. 1.
Tile, Roofing-. H. Joseph. No. 1,895,422; Nov. 1.
Tiller, Adjustable. T. T. Trudt. No. 1,895,434; Nov. 1.
Time-recorder. R. F. Downey. No. 1,895,402; Nov. 1.
Time-recording apparatus. W. Bollier and I. Diamond. No. 1,895,665; Nov. 1.
Tire-core-stripping machine. C. Kuentzel. No. 1,895,424; Nov. 1.
Tire-dressing wheel. P. E. and S. M. Taber. No. 1,895,309; Nov. 1.
Tire, Pneumatic. G. W. Lindley. No. 1,895,626; Nov. 1.
Tire, Pneumatic. H. B. Rector. No. 1,895,770; Nov. 1.
Tire, Pneumatic. R. Stock. No. 1,895,614; Nov. 1.
Tire, Spring-. E. S. Johnson. No. 1,895,420; Nov. 1.
Tire-tread. A. E. Jennings. No. 1,895,876; Nov. 1.
Tire-vise. E. Quinn. No. 1,895,296; Nov. 1.
Tire-vulcanizing mold. W. A. Bretsaler. No. 1,895,944; Nov. 1.
Tires, Valve-pad for pneumatic. N. F. Rice. No. 1,895,731; Nov. 1.
Toaster, Upright electric. H. W. Jutton. No. 1,895,845; Nov. 1.
Tobacco-pipe. H. Gregson. No. 1,895,817; Nov. 1.
Toilet and lavatory, Combined. W. G. Bunker. No. 1,895,479; Nov. 1.
Tool Hand-. J. B. Ayotte. Nos. 1,895,867-8; Nov. 1.
Tool-holder. H. Curtin. No. 1,895,903; Nov. 1.
Tool-holder. H. V. Morin. No. 1,895,859; Nov. 1.
Tools, Operating means for hinged. A. Mazenyk. No. 1,895,758; Nov. 1.
Toy. E. Erickson. No. 1,895,568; Nov. 1.
Toy vehicle. H. J. Leach. No. 1,895,842; Nov. 1.
Toy, Wheeled. C. P. Black. No. 1,895,470; Nov. 1.
Track-switch, Automatic electrically-controlled. R. R. Scoggan. No. 1,895,872; Nov. 1.
Traction-wheel. E. A. Johnston. No. 1,895,422; Nov. 1.
Traction-wheel leg. E. E. Sperry. No. 1,895,897; Nov. 1.
Tractive lug. D. R. Richie. No. 1,895,907; Nov. 1.
Tractor-wheel cleat. J. M. Breyer. No. 1,895,482; Nov. 1.
Tractors, Ground-gripping device for. H. Bauchot. No. 1,895,540; Nov. 1.
Tractors, Transmission and steering mechanism for farm-. D. C. Bell. No. 1,895,668; Nov. 1.
Train-stop mechanism, Automatic safety. A. R. Kilburn. No. 1,895,832; Nov. 1.
Transfer mechanisms, Adjustable guide for. F. B. Glover. No. 1,895,489; Nov. 1.
Trap: *See*—
Animal-trap.
Trimmer: *See*—
Artichoke-trimmer.
Trolley-cord, Retriever-cord guide for. W. H. Wyles. No. 1,895,623; Nov. 1.
Trolley-wire connector. R. R. Scoggan. No. 1,895,873; Nov. 1.
Trough: *See*—
Feed-trough.
Trousers. G. Bettman. No. 1,895,261; Nov. 1.
Trousers-protector, Suspended. E. L. Richardson. No. 1,895,772; Nov. 1.
Truck-coupling. J. R. Miller. No. 1,895,286; Nov. 1.
Trunk. E. H. Rittenbenger. No. 1,895,675; Nov. 1.
Truss. J. W. Wilson. No. 1,895,762; Nov. 1.
Turning-tool. P. E. Lawrence. No. 1,895,436; Nov. 1.
Typewriter, Multiple-impression. P. P. Bonnquin. No. 1,895,564; Nov. 1.
Typewriter type-bars and other devices, Electrical actuating means for. F. Satterstrom. Nos. 1,895,560-562; Nov. 1.
Typewriting-machine. A. G. F. Kurowski. No. 1,895,503; Nov. 1.
Typewriting-machine. R. C. Stidney. No. 1,895,455; Nov. 1.
Vacuum [illegible]-feed apparatus. H. A. Young. No. [illegible]; Nov. 1.
Valve-[illegible] apparatus. G. B. Haines. No. 1,895,915; Nov. 1.
Valve. A. Mackenzie and R. Briggs. No. 1,895,756; Nov. 1.
Valve-[illegible]. W. T. Erickson. No. [illegible]; Nov. 1.
[illegible]. R. N. [illegible]; Nov. 1.
[illegible]; Nov. 1.
[illegible]; Nov. 1.
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ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Aprons and bloomers. Woman's. Rhea Manufacturing Company. No. 147,831; Nov. 1.
Automobile-bumpers, pedal-rubbers. Federal Rubber Company. Nos. 147,769; Nov. 1.
Automobile-bumpers, pedal-rubbers. Federal Rubber Company. No. 147,771; Nov. 1.
Automobiles. Packard Motor Car Company. No. 147,803; Nov. 1.
Automobiles. Sun and rain shields for. E. Palmuth. No. 147,804; Nov. 1.
Bags, Beaded. H. Wolf & Co. No. 147,832; Nov. 1.
Baking-powder, cream of tartar, &c. H. A. Johnson Co. No. 147,561; Nov. 1.
Batteries, and certain parts thereof. General Lead Batteries Company. No. 147,773; Nov. 1.
Belts made of fabric combined with rubber. Conveyer-. The B. F. Goodrich Company. No. 147,774; Nov. 1.
Beverages, Material for anti-proofing and stabilizing. American Tonsul Company. No. 147,745; Nov. 1.
Beverages, syrups for making same, and spring-water. W. J. Brendel. No. 147,756; Nov. 1.
Boots and shoes all of leather. Chas. E. Lynch Shoe Mfg. Co. No. 147,870; Nov. 1.
Boots and shoes, Leather. Foot, Schulze & Co. No. 147,848; Nov. 1.
Boots, shoes, and slippers, Leather and fibrous. M. Samuels & Co. No. 147,882; Nov. 1.
Boxes, Strawboard. Standard Corrugated Box Co. No. 147,885; Nov. 1.
Bread, &c., Ingredient used in the manufacture of. Ward Baking Company. No. 147,826; Nov. 1.
Cakes, crackers, and biscuits. Loose Wiles Biscuit Company. No. 147,769; Nov. 1.
Cakes in animal shapes. P. I. Jacoby. No. 147,859; Nov. 1.
Calendars, greeting-cards, mottoes, Art-. Brown & Bigelow. No. 147,758; Nov. 1.
Cleaning, polishing, and dressing compound for automobiles and furniture. Mountain States Rubber Company. No. 147,799; Nov. 1.
Cloth, Jersey. Continental Mills. No. 147,843; Nov. 1.
Clothing. A. M. Oppenheim. No. 147,879; Nov. 1.
Clothing. Yorkshire Knitting Co. Inc. No. 147,891; Nov. 1.
Clothing, Certain articles of. William Hollins & Co. No. 147,887; Nov. 1.
Coats for ladies and misses, Plush. John & James Dobson. No. 147,844; Nov. 1.
Combs, hairpins, clasps, and hair ornaments. A. Bonas. No. 147,758; Nov. 1.
Compound, Core-binding. Casein Manufacturing Company. No. 147,790; Nov. 1.
Compound for patching roofs. J. F. Kurfees Paint Company. No. 147,867; Nov. 1.
Cutlery and tools, Certain. J. W. Ibberson. No. 147,779; Nov. 1.
Diary and record ledger-books, Lawyers' systematized. G. L. Miller. No. 147,796; Nov. 1.
Disinfectants and deodorants. Kemiko Co. No. 147,784; Nov. 1.
Detergent. Chemical Utilities Company, Inc. No. 147,762; Nov. 1.
Elastics. Wm. B. Bliss Jr. & Co. No. 147,751; Nov. 1.
Electric-resistance units, rheostats, &c. Ward Leonard Electric Company. Nos. 147,827-8; Nov. 1.
Electric switches, cut-outs, and parts thereof. Johns-Pratt Company. No. 147,860; Nov. 1.
Embroidery-hoops. Gibbs Manufacturing Company. No. 147,850; Nov. 1.
Fabrics, Impregnated or coated woven. Western Cartridge Company. No. 147,889; Nov. 1.
Fats, Cooking-. Procter and Gamble Company. No. 147,810; Nov. 1.
Feeds, Dairy, stock, and poultry mixed. Champion Milling & Grain Co. No. 147,761; Nov. 1.
Fertilizers. United Fertilizer Company. No. 147,825; Nov. 1.
File-cases, Prescription. Chicago Label and Box Co. No. 147,841; Nov. 1.
Fountains, Soda-. Albert Pick & Company. No. 147,805; Nov. 1.
Furniture, Certain articles of household. E. Guggenheim. No. 147,853; Nov. 1.
Garment-hangers, fly traps and swatters, and rat-traps, &c. Wickwire Spencer Steel Corporation. No. 147,831; Nov. 1.
Garters and hose-supporters. Ivy Corset Company. No. 147,781; Nov. 1.
Gloves, Silk, fabric, and leather. George A. Guest. No. 147,775; Nov. 1.
Golf score-pads and cards and covers therefor. K. W. Brown. No. 147,759; Nov. 1.
Graphite and amorphous carbon. Acheson Graphite Company. No. 147,835; Nov. 1.
Hair-nets. Bonnie-B Company. No. 147,754; Nov. 1.
Hair-nets. A. Klar. Nos. 147,863-4; Nov. 1.
Hair-nets. G. Sattler. No. 147,813; Nov. 1.
Hair-nets. L. Stein. No. 147,819; Nov. 1.
Hair-tonic. St. Lawrence Manufacturing Company. No. 147,820; Nov. 1.
Hats. De Luxe Cap Co. No. 147,776; Nov. 1.
Hats and caps, Men's and boys'. Fine & Levy. No. 147,847; Nov. 1.
Hats, Men's. E. Lustig. No. 147,809; Nov. 1.
Honey. Griggs Bros Co. No. 147,852; Nov. 1.
Honey. Superior Honey Company. No. 147,886; Nov. 1.
Horse feed. Omaha Alfalfa Milling Company. No. 147,878; Nov. 1.
Hosiery, Ladies'. Berendsen Silk Co. No. 147,838; Nov. 1.
Hosiery. Chipman Knitting Mills. No. 147,842; Nov. 1.
Hosiery. Durham Hosiery Mills. No. 147,845; Nov. 1.
Hosiery. Goodman Hosiery Mills. No. 147,851; Nov. 1.
Hosiery. L. Matteos. No. 147,874; Nov. 1.
Hosiery. Wayne Knitting Mills. No. 147,880; Nov. 1.
Insulated conductors and cables. Okonite Company. No. 147,802; Nov. 1.
Knit goods. David Harris & Elsner. No. 147,854; Nov. 1.
Knitted underwear. Norwich Knitting Company. No. 147,877; Nov. 1.
Knitted woolen articles of clothing. H. W. Plant & Co. No. 147,807; Nov. 1.
Leather, Imitation. Bridgeport Coach Lace Co. No. 147,839; Nov. 1.
Leather-polish. Société Générale des Cirages Français. No. 147,816; Nov. 1.
Lumber, Certain. J. W. Turnbull Lumber Company. No. 147,824; Nov. 1.
Maple-sugar, fresh milk and cream, &c. W. S. Martin. No. 147,794; Nov. 1.
Margarin. B. S. Pearsall Butter Co. No. 147,890; Nov. 1.
Mattresses. McRoskey & Co. Nos. 147,871-2; Nov. 1.
Mattresses, pillows, bed-springs, brass and iron beds. Bay City Spring & Mattress Co. No. 147,837; Nov. 1.
Medicinal preparation. C. J. Brown. No. 147,840; Nov. 1.
Medicinal preparation. D. G. Puderbaugh. No. 147,811; Nov. 1.
Medicine for relief of sufferers of cold and consumption. T. F. Bogobe. No. 147,752; Nov. 1.
Motors and certain accessories therefor, Spring-driven. Sears, Roebuck and Company. No. 147,814; Nov. 1.
Mucilage, adhesive tapes, liquid glue, and court-plaster. Puritan Drug Mfg. Co. No. 147,812; Nov. 1.
Newspaper, Weekly. J. P. McAdams. No. 147,790; Nov. 1.
Oil-cloth, linoleum, mats and rugs. Texoleum Company of New York. No. 147,887; Nov. 1.
Oils and extracts, Food-flavoring. Charles V. Spearhawk, Inc. No. 147,884; Nov. 1.
Oleomargarin. Procter and Gamble Company. No. 147,808; Nov. 1.
Oleomargarin and nut margarin. Elgin Margarine Co. No. 147,873; Nov. 1.
Overalls and jackets. Elmer E. Wagner. No. 147,889; Nov. 1.
Overalls, coveralls, trousers, and palm beach suits. Kahn Manufacturing Company. No. 147,862; Nov. 1.
Pants, trousers, coats, &c., Knee-. Korrekt Klothes Inc. No. 147,865; Nov. 1.
Paper, Writing-. New Safety Paper Company. No. 147,876; Nov. 1.
Papers, Tissue-. Crystal Tissue Co. No. 147,765; Nov. 1.
Pens, Fountain-. Conklin Pen Manufacturing Co., Inc. No. 147,763; Nov. 1.
Periodical, Monthly. L. L. Warren. No. 147,892; Nov. 1.
Phonographs. M. Steigman. No. 147,818; Nov. 1.
Photographs. W. O. Welch. No. 147,829; Nov. 1.
Pins, safety-pins, hooks and eyes. American Pin Company. No. 147,747; Nov. 1.
Polishing composition for metal and glass. Eclipse Manufacturing Company. No. 147,846; Nov. 1.
Preparation for certain purposes. Fairchild Bros. & Foster. No. 147,767; Nov. 1.
Rubber cements, Liquid. Montgomery Bros. No. 147,798; Nov. 1.
Rubber mats ad mattings. Federal Rubber Company. No. 147,770; Nov. 1.
Salve. M. E. Beauford. No. 147,750; Nov. 1.
Salves for cuts, burns, sores, &c. J. C. Trask. No. 147,822; Nov. 1.
Shampooing preparation. J. L. Hopkins & Co. No. 147,858; Nov. 1.
Shells, Crushed oyster-. Torsch Packing Co. No. 147,888; Nov. 1.
Shirts, Outer and dress. William Abrams. No. 147,834; Nov. 1.
Shoe-polish. W. Henderson. No. 147,777; Nov. 1.
Shoes, Ladies' and misses' leather. Krippendorf, Dittmann Co. No. 147,866; Nov. 1.

Shoes, Leather. Donald Shoe Company. No. 147,766; Nov. 1.
Shoes, Women's and misses'. Barker, Gibbon Company. No. 147,796; Nov. 1.
Silk goods in the piece. Henri Gutmann Silks Corporation. No. 147,778; Nov. 1.
Silk goods in the piece. J. A. Migel Inc. No. 147,786; Nov. 1.
Silk piece goods. H. R. Mallinson & Co. No. 147,791; Nov. 1.
Silk skirt-braid. Marshall Field & Company. No. 147,793; Nov. 1.
Silks in the piece. Jansen & Pretsfeld. Nos. 147,782–3; Nov. 1.
Silver-plated flat-ware. International Silver Company. No. 147,780; Nov. 1.
Snap-fasteners. Marshall Field & Company. No. 147,792; Nov. 1.
Soap and soap paste. Joseph Cramer Company. No. 147,764; Nov. 1.
Soap, Laundry. Larkin Co. No. 147,767; Nov. 1.
Soap, Laundry. Los Angeles Soap Co. No 147,803; Nov. 1.
Soaps. Pioneer Tar Soap Co. No. 147,806; Nov. 1.
Spark-timers for internal-combustion engines. Necedah Manufacturing Co. No. 147,800; Nov. 1.
Stamps, Hand-. Worcester Office Supplies Company. No. 147,833; Nov. 1.
Sweaters, sweater-coats, and men's and ladies' knit underwear. Hathaway & Reynolds. Nos. 147,855–6; Nov. 1.
T-bevels, hatchet-gages, squares, wing-dividers. Shapleigh Hardware Company. No. 147,816; Nov. 1.
Talking-machines and certain attachments and supplies therefor. T. & H. Specialty Mfg. Co. No. 147,817; Nov. 1.
Tire-pumps. Bridgeport Brass Company. No. 147,787; Nov. 1.
Title of a newspaper-section. New York Tribune. No. 147,801; Nov. 1.
Toilet preparations, Certain. Klinker Manufacturing Co. Nos. 147,758–9; Nov. 1.
Tonic, Liquid. H. Fierman. No. 147,772; Nov. 1.
Tools for garage work, Certain. Larson Tool and Stamping Company. No. 147,788; Nov. 1.
Toys. Tip-Toy Co. No. 147,822; Nov. 1.
Tripoli flour. American Tripoli Company. No. 147,749; Nov. 1.
Trucks, Motor-. Sanford Motor Truck Company. No. 147,823; Nov. 1.
Tugs and barges. Foss Launch & Tug Company. No. 147,849; Nov. 1.
Washing fluids. H. J. Miller. No. 147,797; Nov. 1.
Watch-crystals. Boyd-MacDonald Company. No. 147,755; Nov. 1.
Welding fluxes. Morey Flux and Chemical Company. No. 147,875; Nov. 1.
Wire cloth and netting. American Cellulose & Chemical Manufacturing Company. No. 147,746; Nov. 1.
Yarns. Toulson & Research. No. 147,821; Nov. 1.

ALPHABETICAL LIST OF LABELS.

"A. L. Brand." (For Hair-Restorative.) A. Lichtstein. No. 23,599; Nov. 1.
"A. L. Brand." (For Dandruff Remedy.) A. Lichtstein. No. 23,600; Nov. 1.
"Alpha Automobile Polish." (For Bottles Containing a Polish for Automobiles.) G. W. Joeckel. No. 23,596; Nov. 1.
"Beds and Springs—Fit for Kings." (For Beds and Springs.) Blue Seal Bed Spring Co., The. No. 23,585; Nov. 1.
"Buttea Sweet Corn." (For Confections.) Goelitz Confectionery Co. No. 23,586; Nov. 1.
"California Home." (For Pickles.) California Conserving Co. No. 23,588; Nov. 1.
"Cameo Jewel Box." (For Cartons or other Containers for This Jewel-Box.) Miller Brothers. No. 23,602; Nov. 1.
"'Fin-Twister', Particularly Useful on Ford Cars." (For Box-Tops.) Bonney Vise & Tool Works. No. 23,586; Nov. 1.
"First National P. R. P." (For Bottles Containing a Medicine for Restoring Lost Vitality of Men and for Upbuilding the Nervous System.) First National Pharmacy. No. 23,590; Nov. 1.
"Hold-Tight." (For Hair-Nets.) A. Klar. No. 23,597; Nov. 1.
"King Packing Ring." (For Boxes Containing King Packing-Rings.) United States Metallic Packing Company. Nos. 23,606–9; Nov. 1.
"La Creole Hair Dressing." (For Cartons in Which are Bottles Containing a Hair-Tonic.) Van Vleet-Mansfield Drug Co. No. 23,611; Nov. 1.
Lassie." (For Hair-Nets.) B. Frankel Company, Inc., The. No. 23,591; Nov. 1.
"Marathon." (For Chocolates.) D'Oriando Co. No. 23,589; Nov. 1.
"Mary Wayne." (For Candies.) Heit-Miller-Lee Company. No. 23,584; Nov. 1.
"Mother Houghton's Chicken Hamburg." (For Cooked Meat—Namely, Chicken Hamburg.) D. La Fortune. No. 23,598; Nov. 1.
"Nutritious Bread Clean." (For Bread.) L. Simon. No. 23,603; Nov. 1.
"Ovaltine." (For Tins Containing Ovaltine.) Wander Company, The. No. 23,613; Nov. 1.
"Peanut Andy." (For Peanut Candy.) Martin M. Hoffman. No. 23,595; Nov. 1.
"Ryans' Van-Rouge." (For a Fruit Beverage.) Van Rouge Co., Inc. No. 23,610; Nov. 1.
"Stevens Novelite Bedspread." (For Bedspreads.) Stevens Manufacturing Co. No. 23,604; Nov. 1.
"Stick Quick." (For Gummed Paper and Cloth.) Mid-States Gummed Paper Co. No. 23,601; Nov. 1.
"The Game of Traps." (For a Game.) A. S. Witter. No. 23,614; Nov. 1.
"The Home-Made Box." (For Boxes Containing Chocolate Candies.) Frederick & Nelson. No. 23,592; Nov. 1.
"True Shape." (For Hosiery.) True Shape Hosiery Co. No. 23,605; Nov. 1.
"Two Bulldogs, Splendora Mills and a Descriptive Paragraph in English and Seven Foreign Languages." (For Sheetings and Drills.) P. C. Alexander. No. 23,584; Nov. 1.
"Volker's Bohemian Brand." (For Tins Containing Malt Extract.) Chas. Volker & Son. No. 23,612; Nov. 1.

ALPHABETICAL LIST OF PRINTS.

"Don't Cut the Cuticle." (For Advertising Purposes for Manicure Preparations.) Northam Warren Corporation. No. 5,828; Nov. 1.
"Kats Pays the Tax." (For Advertising Purposes for Cigars and Tobacco.) I. and M. Kats. No. 5,826; Nov. 1.
"Kept Clean with Gold Dust." (Ice Box Design.) (For Advertising Purposes for Gold Dust Washing-Powder.) N. K. Fairbank Company. No. 5,824; Nov. 1.
"Peanut Andy." (For Advertising Purposes for Peanut Candy.) M. M. Hoffman. No. 5,825; Nov. 1.
"290 Eggs in One Year." (For Advertising Purposes for Poultry and Eggs.) O. F. Mettendorf. No. 5,827; Nov. 1.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Air-blowers, hair-driers, curling-iron heaters, &c., Electric. Electric Manufacturing Company. No. 148,576; Nov. 1.
Alarms, Electric thief and burglar. G. W. Wacker. No. 150,759; Nov. 1.
Almonds and other nuts. Nut Specialty House. No. 146,181; Nov. 1.
Antifreeze compound, carbon and tar removers, &c. R. M. Hollingshead Co. No. 149,136; Nov. 1.
Anesthetics and preparations for alleviating irritation and pain. H. A. Metz Laboratories. Nos. 148,448–9; Nov. 1.
Antiseptic powder. A. C. Hanson. No. 130,036; Nov. 1.
Automobiles, furniture and wood, Polish and cleaner for. Vinard Manufacturing Company. No. 150,338; Nov. 1.
Balls for athletic games, Playing-. A. G. Spalding & Bros. No. 148,720; Nov. 1.
Baseball-bats. Hilton Collins Co. Nos. 152,679–81; Nov. 1.
Bassinets, cribs, cradles, &c., Wheel-. Gem Crib & Cradle Company. No. 148,435; Nov. 1.
Battery-containers. Ahlbell Battery Container Corporation. No. 152,406; Nov. 1.
Bed-springs. Northwestern Bedding and Manufacturing Co. No. 150,554; Nov. 1.
Benzin. Noco Petroleum Company. No. 139,904; Nov. 1.
Beverage and syrup for making same, Non-alcoholic, non-cereal, maltless. S. Schasterman. No. 148,817; Nov. 1.
Beverage, Non-alcoholic. D. B. Nigg. No. 145,407; Nov. 1.
Beverage, Non-alcoholic, maltless. Moon Beverage Company. No. 150,336; Nov. 1.
Beverage, Non-intoxicating maltless. M. Pitzl. No. 123,556; Nov. 1.
Beverages and syrups. Jacob House & Sons. No. 151,321; Nov. 1.
Beverages in containers, Non-alcoholic. P. Kolbe. No. 147,110; Nov. 1.
Beverages, Non-alcoholic maltless. Iroquois Beverage Corporation. No. 125,930; Nov. 1.
Bluing. M. Nedlin. No. 142,521; Nov. 1.
Books and maps, Printed. C. S. Loeber. No. 150,548; Nov. 1.
Boxes, Tobacco-. S. G. Tripp. No. 128,905; Nov. 1.
Braids, shoe and corset laces. C. P. Schaeffer. No. 147,869; Nov. 1.
Brooms and mops. Thos. Hubbuck & Son. No. 123,578; Nov. 1.
Brushes, Toilet-. Geo. R. Gibson Co. No. 140,794; Nov. 1.
Burglar-alarm systems and parts thereof, Electrical. S. Seligman. No. 145,490; Nov. 1.
Butters, oatmeal and honey, Nut and apple. C. A. Jean. No. 150,196; Nov. 1.
Candies. Wallace & Co. No. 150,577; Nov. 1.
Candies, bonbons, chocolates, and marshmallows. C. Baruzzo. No. 148,702; Nov. 1.
Candies. Will & Baumer Candle Co. Nos. 151,731–2; Nov. 1.
Candles. Will & Baumer Candle Co. Nos. 151,735–6; Nov. 1.
Candles. Will & Baumer Candle Co. No. 151,738; Nov. 1.
Candy. C. F. Hickok Co. No. 137,661; Nov. 1.
Candy. E. L. Johnson & Co. No. 151,089; Nov. 1.
Candy. Lewis and Rose. No. 150,971; Nov. 1.
Candy, Manufacturing Company of America. No. 147,937; Nov. 1.
Canned fruits and vegetables. California Growers Association. No. 147,409; Nov. 1.
Canned fruits, berries, and vegetables. H. A. Baker, Inc. No. 148,034; Nov. 1.
Cigar and cigarette holders. C. Verguet. No. 150,970; Nov. 1.
Cleaning and scouring composition for metal surfaces, &c. Sunshine Cleansing Products Company. No. 125,406; Nov. 1.
Cloth in the piece, Camel's-hair. Worumbo Manufacturing Company. No. 149,616; Nov. 1.
Coffee, Roasted. Sioux Falls Coffee & Spice Co. No. 150,710; Nov. 1.
Coffee substitute. American Cereal Coffee Company. No. 150,707; Nov. 1.
Combs, Hair-. A. Lichtenstein. No. 138,321; Nov. 1.
Cotton batts. Durable Utilities Mfg. Corp. No. 151,512; Nov. 1.
Cotton piece goods. White Mills of New Hampshire. No. 150,984; Nov. 1.
Counter for stores. E. A. Burrows. No. 149,536; Nov. 1.
Creams, face-powders, eyebrow-pencils, shampoos, &c. Cupid Beauty Company. No. 149,627; Nov. 1.
Creams, lotions, and powders, hair-tonics, &c., Face. Lowell Company. No. 149,333–5; Nov. 1.
Dentifrices, Liquid. Birch Chemical Co. No. 151,141; Nov. 1.
Deodorants. Sweet-Odor-Home Company. No. 145,135; Nov. 1.
Desks and folding and school chairs. Peabody School Furniture Co. No. 145,857; Nov. 1.
Dolls, N. Jacobson. Nos. 151,042–5; Nov. 1.
Dolls, Cloth. E. S. Smith. No. 151,926; Nov. 1.
Drains, sinks, washboards, &c., Chemical for cleansing. P. W. Drackett & Sons Company. No. 151,035; Nov. 1.
Dressers, chifferettes, dressing-tables, beds, vanity-dressers, &c. F. H. Newmarker. No. 148,611; Nov. 1.
Drinks and fountain-syrups, Non-alcoholic maltless, carbonated soft. Horn Company. No. 151,541; Nov. 1.
Electric-light fixtures. General Electric Company. No. 151,002; Nov. 1.
Electric-lighting fixtures and desks, &c., lamps, Portable. H. G. McFaddin. No. 150,875; Nov. 1.
Electric motors. Birtman Electric Company. No. 152,199; Nov. 1.
Electric wires, Asbestos insulated. General Electric Company. No. 147,159; Nov. 1.
Electrical controlling devices. Allen-Bradley Company. No. 148,048; Nov. 1.
Electrically-driven tools, electric motors and generators, &c., Portable. Louisville Electric Manufacturing Company. No. 150,242; Nov. 1.
Engines, Compound for sealing leaks in radiators of gas-. Atkinson Drug Co. No. 149,573; Nov. 1.
Erasers for artists' use. F. D. Mayes Manufacturing Co. No. 126,482; Nov. 1.
Fabrics and linings, Dress. Cleminshaw, Levitch & Co. No. 147,409; Nov. 1.
Fabrics in the piece, Woven textile. Bernhard Ulmann Co. No. 150,094; Nov. 1.
Fabrics in the piece, Woven textile. Bernhard Ulmann Co. No. 150,097; Nov. 1.
Fans and heaters, Electric. Graff, Washbourne & Dunn. No. 150,963; Nov. 1.
Fattening compound for animals, Medicinal. Hegewisch Chemical Works. No. 130,328; Nov. 1.
Filing-cabinets. H. L. De Lisle. No. 149,393; Nov. 1.
Fruit, Dehydrated, (apples.) Ewell Fruit Company. No. 151,264; Nov. 1.
Fungicides, insecticides, vermicides, &c. McDougall & Yalding. No. 149,464; Nov. 1.
Fungicides, insecticides, vermicides, &c. McDougall & Yalding. No. 149,466; Nov. 1.
Furnaces, Electric-metallurgical. Pittsburgh Electric Furnace Corporation. No. 149,353; Nov. 1.
Furniture and upholstery. Bernstein Bros. No. 143,476; Nov. 1.
Furniture, Office, directors' room, dining-room, and bedroom. W. & J. Sloane. No. 152,387; Nov. 1.
Game-boards. G. W. Perks. No. 151,230; Nov. 1.
Game of chance. B. O. M. Bonebrake. No. 148,051; Nov. 1.
Ginger-ale, apple-juice, root-beer, &c. Boarman & Son. No. 151,940; Nov. 1.
Golf-balls. The Dunlop Rubber Co., Ltd. Nos. 151,867–70; Nov. 1.
Golf-clubs, dumb-bells, fencing-foils, &c. Hadfields Limited. No. 136,260; Nov. 1.
Gums, rubber cement, Repair-. Federal Rubber Company. No. 146,902; Nov. 1.
Hair-grower. J. Cetrulo. No. 148,929; Nov. 1.
Hair-grower. C. Wiggins. No. 148,471; Nov. 1.
Hair-net. Hair Net Importing Co. No. 133,969; Nov. 1.
Hair-nets. A. Klar. No. 150,688; Nov. 1.
Hair-nets. Morris, Mann & Beilly. No. 151,921; Nov. 1.
Hairpins. Empire Notion Co. No. 149,895; Nov. 1.
Hair-tonics. Wauchula Chemical Company. No. 149,615; Nov. 1.
Hammers, pliers, knives, forks, axes, &c. John Dunn, Son & Co. No. 140,871; Nov. 1.
Handballs, baseball body-protectors, &c. B. F. Goodrich Company. No. 137,469; Nov. 1.
Honey. A. J. Schultz. No. 151,293; Nov. 1.
Humidors. Wilmort Manufacturing Company. No. 139,139; Nov. 1.
Hydrocarbon-engines, Timers for electrical ignition system for. Gladiator Manufacturing Company. No. 151,792; Nov. 1.
Ice-cream cones. National Biscuit Company. No. 150,973; Nov. 1.
Inks, Printing-. Sigmund Ullman Company. No. 144,261; Nov. 1.
Inks, Writing-. Jiffy Pen Company. No. 147,725; Nov. 1.
Inks, Writing-. A. P. Keller. No. 137,479; Nov. 1.
Insect-exterminator, disinfectant, and deodoriser. Yellow-Fluid Chemical Co. No. 149,790; Nov. 1.
Kerosene, gasolene, fuel-oil, lubricating-oil, and paraffin-wax. Ohio Valley Refining Company. No. 150,680; Nov. 1.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Lard and dry salt and sweet-pickled pork. Fowler Packing Company. No. 132,141; Nov. 1.
Letter-heads, envelops, correspondence-cards. Art Craft Shops Company. No. 133,949; Nov. 1.
Lingerie-cloth, Mercerized and unmercerized. Garner Print Works and Bleachery. No. 151,081; Nov. 1.
Liniment. J. B. Parrish. No. 143,401; Nov. 1.
Liquors and spirits, Fermented. Tollemache's Ipswich Brewery Limited. No. 141,194; Nov. 1.
Macaroni and spaghetti. Sun Manufacturing Company. No. 144,108; Nov. 1.
Malt extract. P. I. Kriger. No. 152,206; Nov. 1.
Malt extract, Liquid. National Beverage Distributing Co. No. 152,032; Nov. 1.
Malt extracts. A. Wielich. No. 140,973; Nov. 1.
Malt extracts, Concentrated liquid. Malt-Diastase Company. No. 152,433; Nov. 1.
Matches. General Match Company. No. 143,662; Nov. 1.
Matches. Suzuki & Co. No. 113,318; Nov. 1.
Medical compound for the feet. C. F. Osborne. No. 146,462; Nov. 1.
Medicated lozenges, constipation-capsules, &c. E. Wolfram. No. 146,906; Nov. 1.
Medicinal specific used as a poultice, salves, hair-washes, &c. Mecca Medicinal Products Company. No. 145,226; Nov. 1.
Medicine for constipation, biliousness, &c. Organ-Iron Company. No. 150,926; Nov. 1.
Metal-grinding compound. Diacarbo Disc Grinding Compound Co. No. 150,737; Nov. 1.
Milk, Condensed. Juan & McCormack. No. 150,273; Nov. 1.
Milk, Unsweetened evaporated. American Milk Products Corporation. No. 147,389; Nov. 1.
Mops, dusters, brushes, &c. Fuller Brush Company. No. 141,950; Nov. 1.
Nail-polish. J. Senegas. No. 149,489; Nov. 1.
Oil, Olive-. Fantis & Cutsogeorge. No. 150,857; Nov. 1.
Oil, Pine-. Mackie Pine Oil Specialty Co. No. 129,939; Nov. 1.
Oil used upon hogs, Crude. Mason City Oil & Grease Company. No. 151,841; Nov. 1.
Oils and greases, Lubricating. Associated Oil Company. No. 151,931; Nov. 1.
Oils and petroleum lubricating-greases, gasolene, and kerosene, Lubricating-. J. F. Campion. No. 150,099; Nov. 1.
Oils, Lubricating-. Ayotte Manufacturing Co. No. 151,658; Nov. 1.
Ointment, Antiseptic healing agent for cuts, &c. R. Flores. No. 149,582; Nov. 1.
Outlet boxes and fittings. General Electric Company. No. 152,551; Nov. 1.
Paint, Automobile-. Wheeler Varnish Works. No. 136,495; Nov. 1.
Paint, varnish, whitewash, calcimine, and brushes. Pittsburgh Plate Glass Company, Rennous-Kleinle Division. No. 144,420; Nov. 1.
Paints, turpentine, varnishes, polishing-oil. Standard Oil Company of New York. No. 136,209; Nov. 1.
Paper and envelops. H. C. Cowdrey. No. 130,581; Nov. 1.
Paper, envelops, blotters, cardboards, &c. F. Levy. No. 148,153; Nov. 1.
Paper, paper towels, and serpentine, Toilet-. National Paper Products Company. No. 128,158; Nov. 1.
Perfumes, toilet waters, face lotions, eau-de-cologne, &c. M. M. Richard-Vve Grenoville. No. 150,610; Nov. 1.
Pharmaceutical preparations. Comer, Fetterly & Co. No. 149,654; Nov. 1.
Piano-benches, cedar chests, beds, couches, &c. Southern Cabinet & Furniture Co. No. 138,457; Nov. 1.
Picture-card art novelties. Cincinnati Art Publishing Company. No. 150,222; Nov. 1.
Pipes and cigar and cigarette tubes, Tobacco-. J. L. Duncan. No. 147,863; Nov. 1.
Pipes, Briar. Simon, Vuillard & Strauss. No. 141,132; Nov. 1.
Poison, Rodent-. H. T. Garner. No. 150,526; Nov. 1.
Portières, silk drapery-cloths, and curtains, Summer. J. Derk. No. 137,568; Nov. 1.
Poultry, Dressed. Missouri Egg & Poultry Company. No. 143,871; Nov. 1.
Poultry, Live and dressed. W. Lukert. No. 147,030; Nov. 1.
Powder and wrinkle-cream, Face-. Usit Manufacturing Company of America. No. 133,031; Nov. 1.
Powder, Liquid face-. J. G. Brown. No. 149,877; Nov. 1.
Powder, Toilet, (face.) Marie Djang-lure Co. No. 150,873; Nov. 1.
Preparation for venereal diseases. Lenzewerke, A. G. No. 141,217; Nov. 1.
Razor-strops. Illinois Razor Strop Company. Nos. 149,694-5; Nov. 1.
Remedy against gall-stones, liver complaint, &c. I. Deiglmayr. No. 141,717; Nov. 1.
Remedy for hemorrhoids. J. Varga. No. 142,833; Nov. 1.
Remedy for tuberculosis. E. E. Moore. No. 146,644; Nov. 1.
Remedy, Stomach. Barney Bennett Co. No. 151,144; Nov. 1.
Rodents, Mixture for destruction of. C. G. Woods, Jr. No. 151,073; Nov. 1.
Root-beer. J. M. Eckenrode. No. 138,162; Nov. 1.
Rubber toys. J. J. Franklin and Sons. No. 142,140; Nov. 1.
Rugs. W. M. Ferguson. No. 151,790; Nov. 1.
Salt, Mineral and medical. Spa Baths Co. No. 149,780; Nov. 1.
Salts, Laxative. Pioneer Biochemic Products Co. No. 136,642; Nov. 1.
Salve. A. Baron. No. 149,795; Nov. 1.
Salve for eczema, &c. Polar Salve Company. No. 149,615; Nov. 1.
Seasonings, soups, consomm4, sauces, &c. Maggi Co. No. 146,975; Nov. 1.
Shoe and leather dressing. Whittemore Brothers Corporation. No. 144,368; Nov. 1.
Shoe-patterns. Wiechman Pattern Company. No. 147,072; Nov. 1.
Silk, linen, woolen, and cotton, &c., piece goods. Haas Brothers Fabrics Corporation. No. 152,256; Nov. 1.
Silks, ribbons, velvets, and cotton goods in the piece. Wyle-Heinzerling Co. No. 151,998; Nov. 1.
Silver-plated flat and hollow ware. Simeon L. & George H. Rogers Company. No. 141,594; Nov. 1.
Soap. Bauer & Black. No. 151,748; Nov. 1.
Soap. Fitzpatrick Bros. No. 151,666; Nov. 1.
Soap. J. S. Kirk & Company. No. 151,799; Nov. 1.
Soap, Laundry. C. T. Perry & Company. No. 151,097; Nov. 1.
Soap, Toilet. A. Schwab. No. 151,564; Nov. 1.
Soda-ash and caustic soda. Diamond Alkali Company. No. 130,906; Nov. 1.
Sodas, sarsaparilla, and sparkling water, Orange, cherry, and grape. Schoenhofen Company. No. 152,045; Nov. 1.
Solution for treatment of diseases of teeth, throat, and mouth. J. M. Stewart. No. 149,824; Nov. 1.
Spark-plugs. Wisconsin Iron Store, Inc. No. 143,799; Nov. 1.
Spark-plugs, receiving-tuners, &c. Precision Equipment Co. No. 114,748; Nov. 1.
Spraying systems for purifying the air of buildings. A. B. Neeb. No. 146,455; Nov. 1.
Storage batteries. Western Battery & Supply Company. No. 150,048; Nov. 1.
Storage battery boxes, tops and screw-caps for same, Electric. Rub-Tex Products, Inc. No. 150,029; Nov. 1.
Surgical or sanitary bandage. Sphagnum Products Company. No. 139,872; Nov. 1.
Syrup for making non-alcoholic beverages. Standard Bottling and Extract Co. No. 142,816; Nov. 1.
Syrup, Malt-. Clinton Malt Product Co. No. 139,249; Nov. 1.
Syrup, Malt. Gerhard Lang Brewery. No. 152,304; Nov. 1.
Syrup, Malt-. Fred Miller Brewing Company. No. 152,022; Nov. 1.
Taffy and chocolate marshmallows, Peanut and other. G. H. Hammerbacher. No. 145,299; Nov. 1.
Tea and coffee. J. A. Folger & Co. No. 150,664; Nov. 1.
Tobacco products, Mouthpiece-holders for. C. P. Rhodes. No. 141,041; Nov. 1.
Toilet preparations. Madame C. J. Walker, Inc. No. 139,727; Nov. 1.
Toilet water, skin-lotions, face-creams, vanishing creams, hair-dressing. Bailey Co. No. 149,121; Nov. 1.
Tonic, Food. P. Franck. No. 149,744; Nov. 1.
Tonic, General. C. Becchietta. No. 146,894; Nov. 1.
Toothbrushes. Samstag & Hilder Bros. No. 128,844; Nov. 1.
Toys, Mentgomery-Winston. No. 145,251; Nov. 1.
Toys in package-containers. Happiwork. No. 150,530; Nov. 1.
Typewriter carbon-paper and ribbons. Quest Manufacturing Company. No. 146,499; Nov. 1.
Union-suits, vests, and drawers. Vassar Swiss Underwear Co. No. 107,166; Nov. 1.
Whisky. Distillers Finance Corporation. No. 143,658; Nov. 1.
Wood-filler. Dyas & Le Gros. No. 151,281; Nov. 1.

CLASSIFICATION OF PATENTS

ISSUED NOVEMBER 1, 1921.

NOTE.—First number—class, second number—subclass, third number—patent number.

1— 35: 1,395,688
2— 25: 1,395,694
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ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 8TH DAY OF NOVEMBER, 1921.

Noms.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Ackermann, Frank, and C. W. Frum, St. Louis, assignors to Curtis & Co. Mfg. Co., Wellston, Mo. Power-operated compressor. No. 1,396,691; Nov. 8.

Ackermann Manufacturing Company. (See Peyser, Joseph, assignor.)

Adsit, Charles G. (See King, Guy, assignor.)

Aktiebolaget Svenska Kullagerfabriken. (See Hultgren, Axel G. E., assignor.)

Alger, Manley C. (See Kately, S. E., and Alger.)

Alleigh, Leanore L., San Francisco, Calif. Garment. No. 1,396,410; Nov. 8.

Allerding, Henry L. P., et al. (See Sadler, Harry C., assignor.)

Allison, Joseph E. (See Bartlett, E. C., and Allison.)

Alpha Products Company. (See Forsslien, Henry, assignor.)

Alvarez, Antonio, Berkeley, assignor to American Can Company, San Francisco, Calif. Can-soldering machine. No. 1,396,011; Nov. 8.

Alvin, Alleyne D., assignor of one-half to F. M. Mueller, San Antonio, Tex. Cotton-picking apparatus. No. 1,396,012; Nov. 8.

American Can Company. (See Alvarez, Antonio, assignor.)

American Manganese Steel Company. (See Rossbach, Claude, assignor.)

American Cash Register Company. (See Paden, William L., assignor.)

American Sheet and Tin Plate Company. (See Pinkerton, Andrew, assignor.)

American Stove Company. (See Child, Guy B., assignor.)

American Stove Company. (See Meacham, R. E., and Munsell, assignors.)

American Stove Company. (See Ruppel, Henry, assignor.)

Anderson, George A., assignor of one-fifth to R. H. Taper, one-fifth to V. H. Wangner, and one-fifth to W. M. Meyers, Santa Barbara, Calif. Combined air and release device for air-brakes. No. 1,396,312; Nov. 8.

Anderson, Hjalmar, Chicago, Ill. Wire-twisting device. No. 1,396,013; Nov. 8.

Anderson, William, Hamburgh, Scotland. Trusting coulter and the like. No. 1,396,098; Nov. 8.

Andrews, Roger W., assignor to Northern Engineering Company, Erie, Pa. Water-flow device. No. 1,396,269; Nov. 8.

Anthony, Alfred T., Detroit, Mich. Shut-off burner. No. 1,396,068; Nov. 8.

Anthony, Arthur H., and C. T. Rossiter, assignors to The Massillon Steel Castings Company, Massillon, Ohio. Wheel construction. No. 1,396,069; Nov. 8.

Apple, Vincent G., Dayton, Ohio. Sighting and lighting apparatus. No. 1,396,041; Nov. 8.

Armpriester, Robert L., Philadelphia, Pa. Walking toy. No. 1,396,007; Nov. 8.

Asepto Service Company. (See Rees, Warren C., assignor.)

Ashton, Hannah, executrix. (See Ashton, Orrell.)

Ashton, Orrell, deceased. Instrument by H. Ashton, executrix, Wollaston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Pulling-over machine. No. 1,396,096; Nov. 8.

Associated Engineers Company. (See Buckley, Harry H., assignor.)

Astell, James W., Chicago, Ill. Expanding design. No. 1,396,393; Nov. 8.

Auburn Deer Hanger and Specialty Company. (See Foshee, E., and Van Dorenes, assignors.)

Autographic Register Company. (See Snow, W. C., and Dilks, assignors.)

Automatic Gas Power Company. (See Vaughn, Fred S., assignor.)

Avis, Robert R. (See Chaix, J. P., and Avis.)

Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Treating distillery waste. No. 1,396,007; Nov. 8.

Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Producing organic acids. No. 1,396,008; Nov. 8.

Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Method of producing organic acids. No. 1,396,009; Nov. 8.

Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Method of producing organic acids. No. 1,396,010; Nov. 8.

Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Apparatus for evaporation. No. 1,396,238; Nov. 8.

Backhaus, Arthur A., and C. Haner, Jr., Baltimore, Md., assignors to U. S. Industrial Alcohol Co. Treating distillery waste. No. 1,396,006; Nov. 8.

Backstrom, Helge M., et al. (See Cederberg, Ivar W., assignor.)

Bagshaw, Henry C., Bedford Park, London, assignor to S. F. Burrows and H. L. P. Alexander, London, England. Composition for and the production of waterproof cements, concretes, and mortars. No. 1,396,546; Nov. 8.

Badger Manufacturing Composition. (See Hathaway, Charles H., assignor.)

Baewskin, Abraham J., Chicago, Ill. Composition. No. 1,396,486; Nov. 8.

Bagnell, Christopher C., Duluth, Minn. Electric signal-switch. No. 1,396,600; Nov. 8.

Baker, Newton D., Secretary of War, United States of America, trustee. (See Holmes, Bradford E., assignor.)

Bakeman, Abraham M., New York, N. Y. Show-cart. No. 1,396,550; Nov. 8.

Bakstad, Johan R., assignor to Hobbs & Wells, Inc., Chicago, Ill. Electric heater. No. 1,396,244; Nov. 8.

Barber, Franklin L., assignor to Standard Car Truck Company, Chicago, Ill. Roller side bearing. No. 1,396,094; Nov. 8.

Barbre Electric Specialty Company, The. (See Cutman, Samuel M., assignor.)

Barbier, Christian E., Chicago, Ill. Window-lock. No. 1,396,490; Nov. 8.

Barclay, Stokes, and F. W. Pasthill, Baltimore, Md. Starter for internal-combustion engines. No. 1,396,497; Nov. 8.

Barrett, Michael J., Brooklyn, N. Y. Automatic valve. No. 1,396,394; Nov. 8.

Barsaloux, Odille St., St. Paul, Minn. Sanitary appliance for closet-seats. No. 1,396,547; Nov. 8.

Bartlett, Ernest C., and J. E. Allison, Houston, Tex. Electrical testing-gage. No. 1,396,155; Nov. 8.

Bartlett, George H., Buffalo, Wyo. Bracket-support. No. 1,396,548; Nov. 8.

Barwood, Leonard, assignor to Reliance Machine & Specialty Co., Boston, Mass. Bearing-filling machine. No. 1,396,089; Nov. 8.

Bartlett, Leonard, assignor to Reliance Machine & Specialty Co., Boston, Mass. Punch-filler for bearings. No. 1,396,090; Nov. 8.

Barwick, James W., Pleasant, Ga. Automobile-lock. No. 1,396,091; Nov. 8.

Bassin, William H., Bowen, Ga. Tool for demountable rims. No. 1,396,617; Nov. 8.

Bauley, Harvey V., Jersey City, N. J. Safety-clasp. No. 1,396,311; Nov. 8.

Bastian Bros. Co. (See Mitchel, Charles F., assignor.)

Beach, Clarence E., Binghamton, N. Y. Controlling system for storage batteries. No. 1,396,642; Nov. 8.

Beatty, William M., Pittsburgh, Pa. Vehicle-spring. No. 1,396,749; Nov. 8.

Beaver, Milton S., Reading, Pa. Lock. No. 1,396,550; Nov. 8.

Beck, Arthur A., Bemidji, Minn. Attachment for pencils. No. 1,396,235; Nov. 8.

Beckwith, Leslie I., Boston, Mass. Hammock-support. No. 1,396,408; Nov. 8.

Beehler, Elmer G., Yuma, Colo. Automatic boat unit. No. 1,396,212; Nov. 8.

Beerbaum, Henry A., Milwaukee, Wis. Game apparatus. No. 1,396,290; Nov. 8.

Behs, Guido G., assignor to Essex Motors, Detroit, Mich. Vehicle-fender mounting. No. 1,396,351; Nov. 8.

Belknap, Wilber C., assignor to E. T. Miller, Inc., New York, N. Y. Rubber boot, shoe, galosh, sandal, &c. No. 1,396,513; Nov. 8.

Bell, Charles E., assignor of one-half to S. Hale Beaumont, W. Va. Check-holder. No. 1,396,499; Nov. 8.

Belott, Harry, Los Angeles, Calif. Deep-all-waif pocket. No. 1,396,241; Nov. 1.

Bennett, Hiram C., Rockford, Ill. Drawer. No. 1,396,500; Nov. 8.

Bennett, Arthur, Hollinwood, England. Machine for spinning and piecing up cotton, linen, or similar threads. No. 1,396,615; Nov. 8.

Bennett, Harry F. (See Wright, J. G., and Bennett.)

Berg, Joseph, Little Rock, Ark. Lifting-jack. No. 1,396,514; Nov. 8.

Bertenwerfer, August, Bladen, Nebr. Self-feeder for beehives, sliderframe, and cutters. No. 1,396,615; Nov. 8.

Berry, Frederick R., Hayes, England. Electrical transformer for regulating or varying the voltage of the current supplied therefrom. No. 1,396,521; Nov. 8.

Betchhaw, James F., Berlin, Wis., assignor to The Frey Switch & Manufacturing Company, Carlisle, Pa. Rock-crusher. No. 1,396,616; Nov. 8.

Bethlehem Steel Company. (See Lachman, Maurice, assignor.)

Bigge, Joseph F., Richmond, Va. Combination record rack and closer for cabinets. No. 1,396,156; Nov. 8.

Binns, Arthur E., Mansfield, Mass. Shower pipe. No. 1,396,462; Nov. 8.

Birch, Sydney, Mansfield, Mass. Sheet-guiding mechanism. No. 1,396,157; Nov. 8.

Bleede, Victor G., Catonsville, Md. Manufacture of vegetable glue. No. 1,396,515; Nov. 8.

Bloomfield, Henry E., assignor to Liquid Cleaning Stimulant Co. Inc., New York, N. Y. Filtering and cleansing composition. No. 1,396,244; Nov. 8.

Boettcher, Carl F., Henry, Nebr. Display-sign. No. 1,396,945; Nov. 8.

Boettcher, Abraham H., Hampton, N. J. Evaporator-heating-unit-removing attachment. No. 1,396,516; Nov. 8.

Bohn, Frank J., Baltimore, Md. Safety device. No. 1,396,617; Nov. 8.

Bonham, Guy L., West Hartford, Conn. Automobile-jack. No. 1,396,319; Nov. 8.

Bonner, William T., Trenton, N. J., assignor of one-half to M. Brown and one-half to M. Brown, trustee, Boston, Mass. Mold. No. 1,396,158; Nov. 8.

Boorum and Pease Company. (See Jackson, Mark P., assignor.)

Borst, Warren R., West Brighton, Staten Island, N. Y. Sewage treatment. No. 1,396,297; Nov. 8.

Bosley, D. W., Co., The. (See Wright, John G., assignor.)

Bosse, Pierre, Neuilly-sur-Seine, assignor to Societe Anonyme des Etablissements L. Blerlot, Paris, France. Voltage-controlling mechanism. No. 1,396,553; Nov. 8.

Bouvier, Leo P., Worcester, Mass. Self-serving table. No. 1,396,945; Nov. 8.

Bovy, John, Red Wing, Minn. Map-holder. No. 1,396,562; Nov. 8.

Bowers, Thomas A., Boston, Mass. Manufacturing tufts and article derived therefrom. No. 1,396,159; Nov. 8.

Boyman, Edwin L., Gardner, Mass. Amusement device. No. 1,396,247; Nov. 8.

Bowman, Newton K., North Lawrence, Ohio. Wall-anchor. No. 1,396,296; Nov. 8.

Boyter, Arthur J., Temple, Tex. Casing-elevator. No. 1,396,317; Nov. 8.

Bradley, Charles S., New York, N. Y. Production of carbon. No. 1,396,013; Nov. 8.

Brainin, Salomon. (See Heinman, H., and Brainin.)

Brandberry, Harry M., assignor to Piston Research Corporation, Norfolk, Va. Metallic piston-packing. No. 1,396,620; Nov. 8.

Branaky, Cesar E., assignor to Standard Oil Company, Whiting, Ind. - Purification of hydrocarbons. No. 1,396,320; Nov. 8.

Breen, Harold L., Hattan, N. D. Machine for treating grain, &c. No. 1,396,321; Nov. 8.

Breese, Charles O., Portsmouth, Ohio. Round rim-bound top for tables. No. 1,396,554; Nov. 8.

Bressen, Henry J., Detroit, Mich. Flushing apparatus. No. 1,396,460; Nov. 8.

Bresser, Eduard, Pilsen, Austria. Pneumatic tire. No. 1,396,497; Nov. 8.

Bright, Claude H., Jr., Memphis, Tenn. Numbering-machine. No. 1,396,248; Nov. 8.

Brignall, Richard H., et al. (See Curtis, O. D., assignor.)

Bristol Company, The. (See Bristol, William H., assignor.)

Bristol, William H., assignor to The Bristol Company, Waterbury, Conn. Synchronized entertainment apparatus. No. 1,396,401; Nov. 8.

Bristol, William H., Waterbury, Conn. Sound-selecting apparatus. No. 1,396,402; Nov. 8.

Brock, Matthias, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Softening apparatus. No. 1,396,160; Nov. 8.

Brosius, Ralph C., assignor to Multiplex Electric Company, Chicago, Ill. Fuse-plug. No. 1,396,552; Nov. 8.

Brooks, Robert A., Chicago, Ill. Flushing-valve. No. 1,396,521; Nov. 8.

Brooks, R. M. (See Gould, Edwin J., assignor.)

Brouillette, Albert J., assignor to Shawlow Shuttle Company, Woonsocket, R. I. Shuttle-eye. No. 1,396,565; Nov. 8.

Brown Company. (See Burningham, F. A., Richter, Van Arsdel, and White, assignors.)

Brown Company. (See Richter, G. A., Van Arsdel, and White, assignors.)

Brown Marketing Machinery Company, The. (See Scott, Harry E., assignor.)

Brown, Joseph H. (See Davison, Ernest G., assignor.)

Brown, Max, et al. (See Benner, William T., assignor.)

Brown, Max, et al., trustee. (See Benner, William T., assignor.)

Bryntesen, Bryntz, Odebolt, Iowa. Wireless corn-planter. No. 1,396,626; Nov. 8.

Buchsbaum, Samuel, Chicago, Ill. Clasp. No. 1,396,019; Nov. 8.

Buchsbaum, Samuel, Chicago, Ill. Belt-buckle. No. 1,396,020; Nov. 8.

Buckman, Elmer E., Stanton, Kans. Wire-stretcher. No. 1,396,969; Nov. 8.

Buckley, Harry H., assignor to Associated Engineers Company, Chicago, Ill. Separating carbon and similar packing. No. 1,396,249; Nov. 8.

Buckley, Lucius W., Indianapolis, Ind. Bifocal lens. No. 1,396,498; Nov. 8.

Bullen, Alfred E., and C. Jessyn, Auckland, New Zealand. Mechanism for printing-machines. No. 1,396,622; Nov. 8.

Burch, Jay, San Luis Obispo, Calif. Clamp. No. 1,396,321; Nov. 8.

Burger, Emil, Hoboken, N. J. Antistatic friction device. No. 1,396,318; Nov. 8.

Burch, Jay F., Laurel Springs, N. J. Distilling petroleum. No. 1,396,249; Nov. 8.

Burke, Michael, Mount Pleasant, Iowa. Derrick. No. 1,396,250; Nov. 8.

Burnham, George A., Saugus, assignor to S. R. Cundit, Jr., Brookline, Mass. Electrically-operated circuit-breaker. No. 1,396,994; Nov. 8.

Burningham, Foster A., G. A. Richter, W. B. Van Arsdel, and D. H. White, assignors to Brown Company, Berlin, N. H. Waterproof fiber tube and making the same. No. 1,396,251; Nov. 8.

Burroughs Adding Machine Company. (See Magnus, John, assignor.)

Burrows, Spencer F., et al. (See Badder, Harry C., assignor.)

Burton, Frank F., Mount Carmel, and T. D. Jacobs, New Haven, assignors to Winchester Repeating Arms Company, New Haven, Conn. Air-gun. No. 1,396,494; Nov. 8.

Busch-Sulzer Bros.-Diesel Engine Company. (See Rotter, Max, assignor.)

Butt, Hyman V., Ottawa, Ontario, Canada. Fur-nib cutter. No. 1,396,624; Nov. 8.

Cahill, William J., New Dorp, N. Y. Horseshoe. No. 1,396,495; Nov. 8.

Cameron, Roger W. and M. W. Ramsay, designers to Campbell Engineering Corporation, Kansas City, Mo. Butterfly-plate-turning rack. No. 1,396,168; Nov. 8.

Cameron Engineering Corporation. (See Campbell, H. W., and Ramsay, assignors.)

Carch, Charles C., Kansas City, Mo. Antifriction device for bearing-surfaces. No. 1,396,561; Nov. 8.

Carey, Thomas F. (See Coleman, Harry H., assignor.)

Carl, Victor F., Providence, Mass. Tagging-machine. No. 1,396,496; Nov. 8.

Carlson, August, Des Moines, S. D. Automobile-wheel sun-shield device. No. 1,396,566; Nov. 8.

Carmichael, Robert H., Houston, Tex. Pump-plunger. No. 1,396,774; Nov. 8.

Carriere, Donald E., Cayuga, Ontario, Canada. Clutch. No. 1,396,623; Nov. 8.

Carter, Clark E., assignor of one-half to A. E. McBeath, Montreal, Quebec, Canada. Target apparatus. No. 1,396,698; Nov. 8.

Carver, Walter L. (See Funk, T. E., and Carver.)

Carver, Richard G., assignor of one-half to F. J. Lawler, Pelham, N. Y. Automatic window-closing device. No. 1,396,252; Nov. 8.

Caumont, Louis F. (See Koch, T. E., and Caumont.)

Centerwall, Ivar W. Lidmar-Brevik, assignor of seventenths to H. M. Backstrom, Djursholm, and G. A. Kyhlberger, Stockholm, Sweden. Producing ammonia. No. 1,396,627; Nov. 8.

Challis, Philip, London, England. Trunk-piston. No. 1,396,161; Nov. 8.

Challis, Philip, London, England. Trunk-piston. No. 1,396,696; Nov. 8.

Champlin, Alvin B., Tuctahoe, assignor of one-half to R. McWilliam, New York, N. Y. Air-blast sprayer. No. 1,396,319; Nov. 8.

Chandelaine, Norbert, assignor to A. A. Magee, Montreal, Quebec, Canada. Rocking tricycle. No. 1,396,566; Nov. 8.

Charter, James A., Chicago, Ill. Gas-engine. No. 1,396,506; Nov. 8.

Chase Companies, The. (See Recker, Adolph C., assignor.)

Chicago Flue Mfg. Co. (See McDonald, Clarence T., assignor.)

Chicoine, Louis P., Vaudreuil, Quebec, Canada. Track-clearing equipment. No. 1,396,255; Nov. 8.

Child, Guy B., Chicago, Ill., assignor to American Stove Company, St. Louis, Mo. Combined gas and wood and coal range. No. 1,396,628; Nov. 8.

Christman, Charles. (See Messmer, Frank O., assignor.)

Chart & Hooker Milling Machine Company, The. (See Schmidt, Frank S., assignor.)

Clark, John G., Raleigh, Ontario, Canada. Safety-stop for motor-vehicles. No. 1,396,256; Nov. 8.

Clark, Robert G., Brooklyn, N. Y. Ratchet-jack. No. 1,396,320; Nov. 8.

Clark, Samuel A., Seattle, Wash. Sewing-cabinet. No. 1,396,634; Nov. 8.

Clark, Walter T., assignor to The Hazen Furnace Company, Cleveland, Ohio. Cleaning-door and chimney-valve. No. 1,396,676; Nov. 8.

Cleal, Joseph P., and R. H. Awde, Toronto, Ontario, Canada. Lock. No. 1,396,163; Nov. 8.

Clegheorn, Charles A., Webern Steele, England. Material or processing materials for coating substances to protect them or render them non-porous. No. 1,396,023; Nov. 8.

Clemens, John G., Buffalo, N. Y. Tube for fuses. No. 1,396,257; Nov. 8.

Clesett, Peabody & Co. (See Hess, J. W., and Hodgins, assignors.)

Cobey, Albert B. (See Hall, C. G., Devereaux, and Cobey.)

Cochran, John W. (See Hill, S. P., and Cochran.)

Cochran, Merit L. and M. B. Wood, Kansas City, Kans. Ball-joint. No. 1,396,253; Nov. 8.

Cochrane, William F., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Catalyzer apparatus. No. 1,396,954; Nov. 8.

Coenagen, Henry, Great Falls, Mont. Can-opener. No. 1,396,264; Nov. 8.

Coffman, Samuel M., Kansas City, Mo., assignor to The Barbers Electric Specialty Company. Barber's appliance. No. 1,396,507; Nov. 8.

Cohoby, George A. and M. D. Crawford, Garrett, Pa. Switch-lock. No. 1,396,606; Nov. 8.

Cole, Robert M., Sandusky, Ohio. Obtaining a sodium salt from a hydrocarbon monosulfonic acid. No. 1,396,520; Nov. 8.

Cole, Warren W., Portland, Me. Metal screen. No. 1,396,164; Nov. 8.

Coleman, Harry H., New York, N. Y., assignor, by mesne assignments, to L. F. Carey, Philadelphia, Pa. Walking doll. No. 1,396,321; Nov. 8.

Comas Cigarette Machine Company. (See Schodeld, Frederick C., assignor.)

Commercial Research Company, The. (See Eldred, Byron E., assignor.)

Candit, Sears B., Jr. (See Burnham, George A., assignor.)

Conner, George W., Rockdale, Mass. Fuse or cut-out. No. 1,396,255; Nov. 8.

Continental Motors Corporation. (See Fors, Arthur R., assignor.)

Converse, Tommy J., Bellingham, Wash. Steam-whistle-operating mechanism. No. 1,396,696; Nov. 8.

Cook, Richard W. (See Funk, Jacques S., assignor.)

Cooper, Joseph H., Chicago, Ill. Apparatus for utilising jump-fuel. No. 1,396,097; Nov. 8.

Corrington, James W., Fawcett, Mo. Breeding-crate. No. 1,396,246; Nov. 8.

Corrington, James W., Fawcett, Mo. Automatic deeer and self-feeder. No. 1,396,257; Nov. 8.

Cornelius, Cornelius E., Stockholm, Sweden. Electric rotating furnace. No. 1,396,677; Nov. 8.

Corrigan, Clyde S., Norwood, Ohio. Earth-boring machine. No. 1,396,325; Nov. 8.

Cory, Marcus M., assignor to Giddings & Lewis Machine Tool Company, Fond du Lac, Wis. Machine-tool. No. 1,396,165; Nov. 8.

Coryell, John, Detroit, Mich. Multiple-screw jack. No. 1,396,258; Nov. 8.

Coryell, John, Detroit, Mich. Multiple-screw jack. No. 1,396,259; Nov. 8.

Cowgill, David H., West Newton, Pa. Trap-nest. No. 1,396,407; Nov. 8.

Coze Traveling Grate Company. (See Lloyd, William, assignor.)

Crane Glen E., et al. (See Curtis, O. D., assignor.)

Crawford, Albert G., Chicago, Ill., assignor to H. W. Seaman, Clinton, Iowa. Refrigeration process. No. 1,396,074; Nov. 8.

Crawford, Michael D. (See Coboby, G. A., and Crawford.)

Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Protective device. No. 1,396,559; Nov. 8.

Cromwell, Charles H., Georgetown, Ill. Bed-hinge for automobile-trucks. No. 1,396,675; Nov. 8.

Crook, John E. (See Crook, Julia H. and J. E.)

Crook, Julia H. and J. E., Remuera, Auckland, New Zealand. Window construction. No. 1,396,359; Nov. 8.

Curry, Frederick H., Detroit, Mich. Shipping-standard for automobiles. No. 1,396,969; Nov. 8.

Curtis & Mfg. Co. (See Ackermann, F., and Frese, assignors.)

Curtis, O. D., assignor of one-half to R. H. Brignall, two-fifths to G. E. Crane, Kalamazoo, and one-tenth to E. Myers, Bronsville, Mich. Hook or coupling for towlines. No. 1,396,066; Nov. 8.

Cutler-Hammer Mfg. Co., The. (See Stevens, William C., assignor.)

Dahlquist, Charles S., assignor to The Standard Parts Company, Cleveland, Ohio. Axle. No. 1,396,025; Nov. 8.

Dalcher, John T., Jersey City, N. J. Oil-burner for stoves, furnaces, &c. No. 1,396,166; Nov. 8.

Damiani, Godfrey E., Chicago, Ill. Door-silencer. No. 1,396,167; Nov. 8.

Danger, Hans H. P., Hamburg, Germany. Change-speed belt-drive. No. 1,396,168; Nov. 8.

Dangl, Adolf, Vienna, Austria. Machine for covering rings with threads, especially for making thread-buttons. No. 1,396,626; Nov. 8.

Darrah, William A., assignor to The Hoco Engineering Company, Chicago, Ill. Dough-mixing apparatus. No. 1,396,408; Nov. 8.

Davidson, Ernest G., assignor of one-half to J. H. Brown, Elyria, Ohio. Automobile-bumper. No. 1,396,626; Nov. 8.

Davidson, James L., Los Angeles, Calif. Cash and currency container. No. 1,396,361; Nov. 8.

Davis, Charles A., and H. L. Wolfe, San Jose, Calif. Shoe-fitting stool. No. 1,396,100; Nov. 8.

Davis, John P. T., Elk City, Kans. Bit-recovering means. No. 1,396,260; Nov. 8.

Davis, John P. T., Elk City, Kans. Pump. No. 1,396,261; Nov. 8.

Davis, John P. T., Elk City, Kans. Bailer. No. 1,396,262; Nov. 8.

Day, George W., Glenellyn, Ill. Display-stand. No. 1,396,027; Nov. 8.

De Reed, Antonius L., Watergraafsmeer, Netherlands. Transfer process. No. 1,396,409; Nov. 8.

Denham, Charles T., Massa, Italy. Haulage apparatus. No. 1,396,627; Nov. 8.

Devereaux, Francis A. (See Hall, C. G., Devereaux, and Cobey.)

Di Filippo, Silvio, Toledo, Ohio. Fireproofing composition. No. 1,396,264; Nov. 8.

Dickerson, Walter H., New York, N. Y. Recovering the solids of waste pulp liquors. No. 1,396,028; Nov. 8.

Dickinson, Thomas A., Youngstown, Ohio. Metering device. No. 1,396,560; Nov. 8.

Diephouse, Jacob W., Chicago, Ill. Vacuum-cleaner. No. 1,396,263; Nov. 8.

Dochnal, Mathias, St. Louis, Mo. Tile block. No. 1,396,265; Nov. 8.

Donnellan, Frank E., San Francisco, Calif. Cooking-retort. No. 1,396,266; Nov. 8.

Donnelley, R. R., & Sons Company. (See Kately, S. E., and Alger, assignors.)

Dorey, Sylvester, Gloversville, N. Y. Shaving-cup. No. 1,396,561; Nov. 8.

Dorman, William, assignor of one-half to Hazard & Miller, Los Angeles, Calif. Anvil. No. 1,396,679; Nov. 8.

Dorso, Gennaro, San Francisco, Calif. Making ornamental articles. No. 1,396,267; Nov. 8.

Dow Wire and Iron Works. (See Batterman, Ray G., assignor.)

Doyle, William P., assignor of one-half to F. P. Stolte, Reedsburg, Wis. Gearing. No. 1,396,029; Nov. 8.

Draper Corporation. (See Rhoades, Alonzo E., assignor.)

Draper Corporation. (See Snow, Isaac, assignor.)

Draper Corporation. (See Youngquist, Henry W., assignor.)

Draver, Emil R., Richmond, Ind. Exhaust cut-out. No. 1,396,410; Nov. 8.

Dreyer, Alfred J., assignor to Pawling & Harnischfeger Co., Milwaukee, Wis. Electric system. No. 1,396,101; Nov. 8.

Dry, Paul K., et al. (See Johnson, Charles H., assignor.)

Du Pont, E. I., de Nemours & Company. (See Woodbridge, Richard G., Jr., assignor.)

Dubilier, William, New York, N. Y. Variable condenser. No. 1,396,030; Nov. 8.

Dufford, Walter, Bartlesville, Okla. Strap-wrench. No. 1,396,411; Nov. 8.

Dull, Raymond W., La Grange, assignor to Link Belt Company, Chicago, Ill. Link for chain belts. No. 1,396,031; Nov. 8.

Dumanois, Emile P. Levallois-Perret, Seine, France. Carbureted-air distributer for explosion-engine starters. No. 1,396,322; Nov. 8.

Dunham, Charles W., Fairmont, assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for the control of railway-switches. No. 1,396,562; Nov. 8.

Dunham, George W., and L. C. Freeman, assignors to The Militor Corporation, New York, N. Y. Axle construction for motor-vehicles. No. 1,396,102; Nov. 8.

Dunkley Company. (See Dunkley, Samuel J., assignor.)

Dunkley, Samuel J., Oakland, Calif., assignor to Dunkley Company, Kalamazoo, Mich. Apparatus and process for peeling fruit and vegetables. No. 1,396,268; Nov. 8.

Dunn, William H., Anderson, Ind. Automobile-steering-column lock. No. 1,396,506; Nov. 8.

Dunne, Patrick, San Francisco, Calif. Arch-support. No. 1,396,323; Nov. 8.

Duplexalite Corporation. (See White, Ernest C., assignor.)

Dutho Rubber Company. (See Sitzler, Guy A., assignor.)

Dybile, Julius A., Joliet, Ill. Signaling device. No. 1,396,169; Nov. 8.

Eastern Tube & Tool Company. (See Hansen, Hans, assignor.)

Eastman Kodak Company. (See Gaisman, Henry J., assignor.)

Eckart, Charles F., Olaa, Hawaii. Mulsh and making the same. No. 1,396,269; Nov. 8.

Eclipse Machine Company. (See McGrath, William L., assignor.)

Eclipse Machine Company. (See Whitney, Maurice P., assignor.)

Edeborg, Albert W., Jamestown, N. Y. Tire-chain fastener. No. 1,396,108; Nov. 8.

Hoco Engineering Company. (See Darrah, William A., assignor.)

Eldred, Byron E., New York, N. Y., assignor to The Commercial Research Company. Making stylt and products thereof. No. 1,396,412; Nov. 8.

Ellinger, William H., Wichita Falls, Tex. Well-drill wrench. No. 1,396,699; Nov. 8.

Ellis, Frank, Ames, Iowa. Automobile-bumper. No. 1,396,628; Nov. 8.

Emerse, William H., Chelsea, assignor to Simplex Pneumatic Tire Company, Boston, Mass. Pneumatic tire. No. 1,396,170; Nov. 8.

Greene, Glenn G., assignor to G. G. G. Metal Stamping Company, Warren, Pa. Caster for angle-bar furniture. No. 1,396,681; Nov. 8.

Greenwood, Anna G., Denver, Colo. Handy book and tray stand. No. 1,396,700; Nov. 8.

Gregory, Carl W., Petaluma, Calif. Chain. No. 1,396,701; Nov. 8.

Grierson, Benjamin H., Fort Davis, Tex. Attachment for gun-slings. No. 1,396,270; Nov. 8.

Grigsby, Bertram J., Park Ridge, Ill. Steering-column. No. 1,396,195; Nov. 8.

Grimsley, Isaac Lamar, Colo. Wheeled toy. No. 1,396,109; Nov. 8.

Grunig, Frédéric, Brooklyn, and M. L. Van Huele, New York, N. Y. Adjustable hat-lining. No. 1,396,421; Nov. 8.

Gulberson Corporation. (See Montgomery, Gustavus A., assignor.)

Gustafson, Charles, Instanter, Pa. Saw-dressing tool. No. 1,396,682; Nov. 8.

Hachenberg, Louis, New York, N. Y. Pipe-union. No. 1,396,196; Nov. 8.

Haeberlein, Max, Mountain Lakes, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Water-turbine and the like. No. 1,396,327; Nov. 8.

Hafemeister, William C., assignor to G. H. Scott Machine Company, Cleveland, Ohio. Thread-cutting apparatus. No. 1,396,572; Nov. 8.

Hale, Samuel. (See Bell, Charles E., assignor.)

Hall, Charles G., F. A. Devereaux, and A. R. Cobey, International Falls, Minn. Radiator-carrier. No. 1,396,328; Nov. 8.

Hall, William J., Ringgold, La. Planter. No. 1,396,683; Nov. 8.

Helm, Karl, Los Angeles, Calif. Toy cradle-bed wagon. No. 1,396,039; Nov. 8.

Hammond, Myron E., and H. H. Taylor, assignors to The Thos. F. Taylor Company, Bridgeport, Conn. Man's garter. No. 1,396,423; Nov. 8.

Hampden, Wellesley E., assignor of one-half to J. C. Kleist, and one-half to W. F. Woolard, Milwaukee, Wis. Trolley-retriever for street-cars. No. 1,396,367; Nov. 8.

Hand, John G., Kokomo, Ind., assignor of one-half to The Speed-Up Wrench and Manufacturing Company. Can-punch. No. 1,396,629; Nov. 8.

Haner, Carl, Jr., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Treating distillery waste. No. 1,396,368; Nov. 8.

Haner, Carl, Jr. (See Backhaus, A. A., and Haner.)

Hanna Furnace Company, The. (See Clark, Wilbur T., assignor.)

Hansen, Hans, Mespeth, assignor to Eastern Tube & Tool Company, Brooklyn, N. Y. Armor-winding machine. No. 1,396,197; Nov. 8.

Hansen, William C., Rock Island, Ill. Bake-pan. No. 1,396,684; Nov. 8.

Hanson, Walter M., Milwaukee, Wis. Razor-stropper roll. No. 1,396,434; Nov. 8.

Hardey, Virgil E., Chicago, Ill. Means for regulating time-pieces and the like. No. 1,396,198; Nov. 8.

Harding, Charles D. (See Harvey, V., and Harding.)

Harley, Orval K., Jenks, Okla. Shock-absorber. No. 1,396,573; Nov. 8.

Harlow, Thomas R., Benton City, Mo. Game-board. No. 1,396,425; Nov. 8.

Harrigan, Thomas M., Woodstock, Vt. Bundle-tape-applying device. No. 1,396,422; Nov. 8.

Harris, Morris C., San Jose, Calif. Type-cabinet and equipment therefor. No. 1,396,199; Nov. 8.

Harrison, John J., Portland, Oreg. Automobile-bumper lock. No. 1,396,263; Nov. 8.

Hartford, Edward V., Deal, N. J. Electrically-operated brake. No. 1,396,426; Nov. 8.

Harvey, Vivian, and C. D. Harding, Platteville, Mo. Puncture-proof-tube protector for automobile-tires. No. 1,396,200; Nov. 8.

Hatch, Orin E., Davenport, Iowa. Bull-holding instrument. No. 1,396,427; Nov. 8.

Hathaway, Charles H., assignor to Badger Manufacturing Corporation, Milwaukee, Wis. Automobile-bumper. No. 1,396,201; Nov. 8.

Hawkins, Wilford J. (See Steele, Archie W., assignor.)

Hazard & Miller. (See Dorman, William, assignor.)

Heath, Delos P., Detroit, Mich. Combined refrigerator and ice-cream freezer. No. 1,396,574; Nov. 8.

Heath, William O., Stafford, Kans. Draft-equaliser. No. 1,396,202; Nov. 8.

Heinrich, Mary E., Freeport, N. Y. Sport-costume. No. 1,396,203; Nov. 8.

Helsman, Herman, and S. Brainin, New York, N. Y. Paper or bill file. No. 1,396,428; Nov. 8.

Henderson, Yandell, New Haven, Conn. Mask for the inhalation of carbon dioxid. No. 1,396,429; Nov. 8.

Hennessey, John H., Providence, R. I. Pin-tongue. No. 1,396,575; Nov. 8.

Hentschel, Edward O., Cleveland, Ohio. Distributing-roller for printing-presses. No. 1,396,110; Nov. 8.

Hery, Park A., Hillside, N. J., assignor to The Singer Manufacturing Company. Loop-taker-actuating mechanism for sewing-machines. No. 1,396,040; Nov. 8.

Hess, John W., and F. S. Hodgins, Kitchener, Ontario, Canada, assignors to Cluett, Peabody & Co., Inc., Troy, N. Y. Collar. No. 1,396,204; Nov. 8.

Hielscher, John F., Seattle, Wash. Clock-controlled electric signal system. No. 1,396,370; Nov. 8.

Higbee, Le Grand, Cicero, Ill. Toothbrush-head. No. 1,396,630; Nov. 8.

Hill, George S., Stratford, N. H., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Buttonhole-sewing machine. No. 1,396,111; Nov. 8.

Hill, Samuel F., and J. W. Cochran, Indianapolis, Ind. Ventilating-sash fastener. No. 1,396,205; Nov. 8.

Hill, Walter G., Chicago, Ill. Sharpening device for lawn-mowers. No. 1,396,430; Nov. 8.

Hinchey, Harry J., Atlanta, Ga., assignor to Wright-Austin Company, Detroit, Mich. Steam-trap. No. 1,396,206; Nov. 8.

Hirsch, Feodor C., Bridgeport, Conn. Drier for can-covers. No. 1,396,431; Nov. 8.

Hitchcock, Ashland C., Tescott, Kans. Nest. No. 1,396,432; Nov. 8.

Hoag, George, Union Grove, N. Y. Antiskid device. No. 1,396,207; Nov. 8.

Höchstädter, Martin, Berlin, Germany, assignor to N. V. Lyn-Protectie, Maatschappij tot Exploitatie Van Electro-technische en Andere Octrooien, The Hague, Netherland. System for protecting electric-current-distributing mains against temporary interruptions. No. 1,396,112; Nov. 8.

Hodgins, Frank S. (See Hess, J. W., and Hodgins.)

Hoe, R., and Co. (See Raabe, Otto L., assignor.)

Hoffmann, George E. von, Evanston, Ill. Scraper. No. 1,396,702; Nov. 8.

Hoffmann, Gustav, Chicago, Ill. Quick-adjusting wrench. No. 1,396,576; Nov. 8.

Holcomb, Mollie W., Erie, Pa. Article-holder. No. 1,396,513; Nov. 8.

Holden & White. (See Bakstad, Johan E., assignor.)

Holm, Jens S., Cedar Falls, Iowa. Adjustable tabular device. No. 1,396,118; Nov. 8.

Holmes, Bradford B., U. S. Army, assignor to N. D. Baker, Secretary of War, United States of America, trustee. Recoil mechanism for guns. No. 1,396,114; Nov. 8.

Head, Harrison H., Battle Creek, Mich. Can-double-seaming machine. No. 1,396,433; Nov. 8.

Horton, Bryson D., Detroit, Mich. Metal box or receptacle for electrical switches. No. 1,396,434; Nov. 8.

Hosch, Greene C., St. Louis, Mo. Push-button-controlled shutter. No. 1,396,577; Nov. 8.

Hotchner, Fred, San Francisco, Calif. Cable-clamp. No. 1,396,115; Nov. 8.

Houck, John D., Chicago, Ill. Coffee-making device. No. 1,396,435; Nov. 8.

Howell, Evelyn L. V., assignor of one-half to H. M. Schroeder, Los Angeles, Calif. Shockless-rail-crossing. No. 1,396,686; Nov. 8.

Hubbard, Morris V., San Jose, Calif. Stretcher. No. 1,396,208; Nov. 8.

Hull, Burton E., Houston, Tex., assignor to The Texas Company. Explosion-hatch for oil-tanks. No. 1,396,719; Nov. 8.

Hultgren, Axel G. E., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenberg, Sweden. Feeding device for annular bodies. No. 1,396,116; Nov. 8.

Humphrey, Alfred H., New York, N. Y. Gas-burner. No. 1,396,210; Nov. 8.

Humphrey, Alfred H., New York, N. Y., assignor to General Gas Light Company, Kalamazoo, Mich. Making firebacks for gas-stoves. No. 1,396,209; Nov. 8.

Humphrey, Hubert R., Kalamazoo, Mich. Gas-burner. No. 1,396,211; Nov. 8.

Hunt, Herbert H., Oakland, Calif. Vehicle-signal. No. 1,396,212; Nov. 8.

Hurley Machine Company. (See Wood, James J., assignor.)

Iliff, Lloyd G., Kansas City, Mo. Plug-micrometer. No. 1,396,117; Nov. 8.

Imperial Brass Manufacturing Company, The. (See Rudolph, Walter J., assignor.)

International Nitrogen Company. (See Reid, James H., assignor.)

Irving-Pitt Manufacturing Company. (See Fargo, C. R., and Unger, assignors.)

Isele, John, Oakland, Calif. Mechanical device. No. 1,396,578; Nov. 8.

Isono, Tatsuichiro, Tokyo, Japan, assignor to General Electric Company. Induction-motor. No. 1,396,579; Nov. 8.

Jackson, Frank P., Youngstown, Ohio. Treating natural stone. No. 1,396,118; Nov. 8.

Jackson, Lawrence S. (See Girvan, Charles S., assignor.)

Jackson, Mark P., Abbeville, Ga., assignor to Boorum and Pease Company, New York, N. Y. Loose-leaf binder. No. 1,396,631; Nov. 8.

Jackson, Robert E., Princeton, W. Va. Hand-brake. No. 1,396,119; Nov. 8.

Jackson, Robert H., Phoenix, Ariz. Connecting-rod. No. 1,396,435; Nov. 8.

Jacobs, Joseph, Brooklyn, N. Y. Oiling device for fiber silk and the like. No. 1,396,120; Nov. 8.

Jacobsen, Richard S., Chicago, Ill. Electric water-heater. No. 1,396,121; Nov. 8.

Jeayes, Charles. (See Bullen, A. S., and Jeayes.)

Jobb, Thomas B., Orillia, Ontario, Canada. Spectacle-frame. No. 1,396,213; Nov. 8.

Jensen, Aage, Portland, Oreg., assignor to Jensen Creamery Machinery Company, Inc. Method and apparatus for treating lumber. No. 1,396,623; Nov. 8.
Jensen Creamery Machinery Company. (See Jensen, Aage, assignor.)
Jensen, Henry N., Batherville, Iowa. Radiator for automobiles and the like. No. 1,396,633; Nov. 8.
Jensen, Lawrence H., St. Charles, Ill. Pump. No. 1,396,214; Nov. 8.
Joeck, Thomas D. (See Burton, F. F., and Joeck.)
Johantgen, Oliver D., assignor to Victor Adding Machine Co., Chicago, Ill. Clear-elgual-printing mechanism for listing-machines and the like. No. 1,396,215; Nov. 8.
Johnson, Charles H., Shelsbury, assignor of one-third to G. O. Lips and one-third to P. K. Dry, Landis, N. C. Drawing-roll mechanism for spinning-frames. No. 1,396,122; Nov. 8.
Johnson, Edward W., Chicago, Ill. Aerial torpedo or bomb. No. 1,396,624; Nov. 8.
Johnson, Robert, Sault Ste. Marie, Ontario, Canada. Internal-combustion engine. No. 1,396,271; Nov. 8.
Johnson, Robert W., Chicago, Ill. Collar-lint. No. 1,396,041; Nov. 8.
Johnston, George, Manchester, England. Apparatus for pulverising ore and the like. No. 1,396,711; Nov. 8.
Johnston, George, Manchester, England. Crushing. No. 1,396,712; Nov. 8.
Jones, Philip W., Newark, Ohio. Method and machine for producing metallic wedges. No. 1,396,642; Nov. 8.
Jones, Stine L., Baton Rouge, La. Railway-crossing gate. No. 1,396,635; Nov. 8.
Jones, Walter A., Columbus, Ohio. Coating device for glass-drawing apparatus. No. 1,396,216; Nov. 8.
Jones, William M., Jr., Rochester, N. Y. Tire making and repairing device. No. 1,396,517; Nov. 8.
Joseph, Harry P., Davenport, Iowa, assignor, by mesne assignments, to B. L. Schmitt Company. Internal-grinding machine. No. 1,396,122; Nov. 8.
Kahlgtieg, Bernard R., Oakland, Calif. Ammunitator. No. 1,396,636; Nov. 8.
Kahler, Charles F., Chicago, Ill. Slack-adjuster. No. 1,396,218; Nov. 8.
Kaiser, Louis H., assignor to The John Van Range Company, Cincinnati, Ohio. Wheeling service-cart. No. 1,396,713; Nov. 8.
Kalamazoo Loose Leaf Binder Co. (See Shaw, Frank H., assignor.)
Kanth, Henry J. (See Kemp, N. S., and Kanth.)
Kately, Samuel E., and H. C. Alger, Chicago, Ill., assignors to R. R. Donnelley & Sons Company. Jogging-machine. No. 1,396,436; Nov. 8.
Kehrer, Chase, Perth Amboy, N. J. Ignition apparatus. No. 1,396,637; Nov. 8.
Kellogg Switchboard & Supply Co. (See Sparks, Charles, assignor.)
Kelly, John A., Grantree, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,396,124; Nov. 8.
Kemp, Nickios S., and H. J. Kauth, Washburn, Iowa. Rail connection. No. 1,396,043; Nov. 8.
Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,396,125; Nov. 8.
Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,396,126; Nov. 8.
Keogh, Thomas B., and L. F. Caumont, New York, N. Y. Seesaw and toy vehicle. No. 1,396,437; Nov. 8.
Kessler, Rudolph, Chicago, Ill. Device for making butter pads. No. 1,396,438; Nov. 8.
Keyes, Frank E., Pasadena, Calif. Means for separating solid substances from lubricating-oil. No. 1,396,219; Nov. 8.
Kilburn, Oliver J. (See Patterson, C. J., and Kilburn.)
Kilcullen, Patrick J., Philadelphia, Pa. Wave-operated device. No. 1,396,580; Nov. 8.
Kilgo, William A., Asheville, N. C. Poster-frame. No. 1,396,638; Nov. 8.
Kiml, Lada, Cleveland, Ohio. Laundry clip. No. 1,396,639; Nov. 8.
King, Anson, Boston, Mass. Typewriter. No. 1,396,329; Nov. 8.
King, Charles W., St. Louis, Mo. Advertising device. No. 1,396,640; Nov. 8.
King, Guy, Atlanta, and C. G. Adsit, Tallulah Falls, Ga. Medicated chewing-gum. No. 1,396,641; Nov. 8.
Kissel Motor Car Company. (See Palmer, Herman D., assignor.)
Klein, John O., Alliance, Ohio. Tie and rail-fastener. No. 1,396,581; Nov. 8.
Kleist, John C., *et al.* (See Hampden, Wellesley R., assignor.)
Knapp, William, Bayonne, N. J. Lamp. No. 1,396,439; Nov. 8.
Knox, Harley M., Penokee, Kans. Lifting-jack. No. 1,396,440; Nov. 8.
Koehring Machine Company. (See Sheck, Oscar, assignor.)
Kohler, Conrad, Zurich, Switzerland. Steam-turbine-driven locomotive. No. 1,396,220; Nov. 8.
Koppitz, Otto R., Marion, Tex. Stub-axle adjustment device. No. 1,396,128; Nov. 8.
Korthals-Altes, Willem C., Schenectady, N. Y., assignor to General Electric Company. Repulsion-motor. No. 1,396,582; Nov. 8.
Kratz, William, Fall River, Mass. Muffler. No. 1,396,586; Nov. 8.
Kukulka, Valentine, Muskegon Heights, Mich. Varnish-catcher. No. 1,396,584; Nov. 8.
Kuller, John A., Brooklyn, N. Y. Latch device. No. 1,396,441; Nov. 8.
Kunzler, John W., Pittsburgh, Pa. Casting plate-glass and separating therefor. No. 1,396,220; Nov. 8.
Kuzelek, Anthony, Latuda, Utah. Automatic pressure-releaser for crossover tipple-dumps. No. 1,396,127; Nov. 8.
Kwiwicz, Frank, Montreal, Quebec, Canada. Collapsible cane. No. 1,396,572; Nov. 8.
Kuhlberger, Gustav A., *et al.* (See Cederberg, Ivar W., assignor.)
Kyle, William, Bellville, Ontario, Canada. Locomotive driving-wheel. No. 1,396,129; Nov. 8.
Lachman, Maurice, assignor to Universal Electric Welding Company, New York, N. Y. Railing, gate, grille, &c. No. 1,396,442; Nov. 8.
Lachman, Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,396,443; Nov. 8.
Ladd, Lester L., assignor to Photometric Products Corporation, Lockport, Ill. Setting-machine. No. 1,396,221; Nov. 8.
Lail, Theodore K., Valley Mills, Tex. Broom-corn-cultivating machine. No. 1,396,221; Nov. 8.
Laird, Wesley R., Pittsfield, Mass., assignor to General Electric Company. Abrasive device. No. 1,396,585; Nov. 8.
Lake, St. Clair, Poughkeepsie, N. Y., assignor to Malleo Plow Company. Grinding-machine. No. 1,396,130; Nov. 8.
Lancaster, John T., Haverhill, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Pulling-over machine. No. 1,396,131; Nov. 8.
Lang, Henry T., Fremont, Ohio, assignor to National Carbon Company, Inc. Dry-cell-tamping apparatus. No. 1,396,643; Nov. 8.
Lankowski, Edward, Detroit, Mich. Box-opener. No. 1,396,575; Nov. 8.
Lathrop, Harry D. (See McEwan, Charles F., assignor.)
Laughlin, Elmyr A., Oregon, Ill. Vehicle-body bearing. No. 1,396,697; Nov. 8.
Laughlin, Elmyr A., Oregon, Ill. Vehicle-body bearing. No. 1,396,698; Nov. 8.
Laughlin, Elmyr A., Oregon, Ill. Vehicle-body bearing. No. 1,396,699; Nov. 8.
Lawlor, F. J. (See Cater, Richard G., assignor.)
Leader Iron Works. (See Eberb, William A., assignor.)
Lee, Harry P., Stonington, Conn. Winding device. No. 1,396,444; Nov. 8.
Lee, Nizon, Brooklyn, N. Y. Universal joint. No. 1,396,132; Nov. 8.
Leonard, John E., Los Angeles, Calif., assignor, by mesne assignments, to Mitchell Camera Co. Adjustable iris and curtain for cameras. No. 1,396,717; Nov. 8.
Levaire, Edmond F., Paris, France. Fastening means for vignette nails. No. 1,396,271; Nov. 8.
Levaire, Edmond F., Paris, France. Rail-joint. No. 1,396,272; Nov. 8.
Levinson, Louis. (See Scheim, Albert N., assignor.)
Libbey, Henry N., Boston, Mass. Valve for flushing-tanks. No. 1,396,133; Nov. 8.
Lindemann, William G., assignor to Osone Company of America, Milwaukee, Wis. Osoniser. No. 1,396,222; Nov. 8.
Linderman, Bert A., Chicago, Ill. Cabinet for domestic lighting plants. No. 1,396,223; Nov. 8.
Link Belt Company. (See Dull, Raymond W., assignor.)
Lipe, George O., *et al.* (See Johnson, Charles H., assignor.)
Liquid Cleaning Stimulant Co. (See Bloomfield, Henry B., assignor.)
List, Francis X., assignor to National Card Mounting Company, New York, N. Y. Display-folder. No. 1,396,224; Nov. 8.
Lloyd, William, Hasleton, assignor to Coxe Traveling Grate Company, Port Carbon, Pa. Furnace-bopper. No. 1,396,715; Nov. 8.
Logue, Charles H., and D. D. Ormsby, Syracuse, N. Y. Differential gearing. No. 1,396,225; Nov. 8.
Lohrey, Walter, Bloomfield, N. J., assignor to Magna Metal Corporation, New York, N. Y. Electric furnace. No. 1,396,574; Nov. 8.
Long, Charles H., *et al.* (See Thompson, Edward C. and W. H., assignors.)
Long, John J., Norfolk, Va. Reversible cuff. No. 1,396,643; Nov. 8.
Loomis, Everts G., Newark, N. J. Machine-tool. No. 1,396,332; Nov. 8.
Loping Horse & Novelty Co., The. (See Tracey, Daniel F., assignor.)
Lorraine, David G., Los Angeles, Calif. Oil, gas, and sand separator. (Reissue.) No. 15,220; Nov. 8.
Loose, Richard S., Syracuse, N. Y. Pocket tobacco-can. No. 1,396,226; Nov. 8.
Lotte, Charles, Marion, Ohio. Power-shovel or excavating-machine. No. 1,396,575; Nov. 8.
Louden Machinery Company, The. (See Silver, Herman, assignor. (Reissue.)
Louden, Derr F., New York, N. Y. Plant-stand. No. 1,396,445; Nov. 8.

Lowe, William R., New York, N. Y. Vehicle spring suspension. No. 1,396,644; Nov. 8.
Lurry, Abner J., Baton Rouge, La. Press-cloth-repairing machine. No. 1,396,644; Nov. 8.
Lyndon, Lamar, Orange, N. J. System of electrical distribution. No. 1,396,445; Nov. 8.
M. S. Company. (See Bittel, Frederick W., assignor.)
Maag, Max, Zurich, Switzerland. Toothed gearing. No. 1,396,228; Nov. 8.
Mackenzie, Fred L. (See Goddu, G., and Mackenzie.)
Maclaren, James G., Mamaroneck, N. Y. Pneumatic-speech apparatus. No. 1,396,449; Nov. 8.
Maddox, Edwin C., New York, N. Y. Safety-razor. No. 1,396,645; Nov. 8.
Magee, Allan A. (See Chapdelaine, Norbert, assignor.)
Magma Metal Corporation. (See Lohrey, Walter, assignor.)
Magnan, John, assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,396,716; Nov. 8.
Marcelotte Hair Curler Co., The. (See Nattiel, Harry, assignor.)
Marr, Robert A., Norfolk, Va. Recovering used paper. No. 1,396,227; Nov. 8.
Marsden, John H. (See Millikin, John A., assignor.)
Martin, Anna, Cincinnati, Ohio. Desk-receptacle. No. 1,396,228; Nov. 8.
Martin, Sherman J., Woodlawn, Pa. Reel. No. 1,396,450; Nov. 8.
Martin, Walter S., Flint, Mich. Demountable rim. No. 1,396,134; Nov. 8.
Merrifield, Jacob V., Virginia, Minn. Showplow. No. 1,396,577; Nov. 8.
Mets, Rocco F., Wilkinsburg, assignor to Mine Safety Appliances Company, Pittsburgh, Pa. Gas-purifying composition and manufacturing same. No. 1,396,596; Nov. 8.
Massillon Steel Castings Company, The. (See Anthony, A. H., and Nordfeldt, assignors.)
Mathews, Fred, Chicago, Ill. Carline. No. 1,396,703; Nov. 8.
Mathews, Fred, Chicago, Ill. Latch for hoods of automobiles. No. 1,396,704; Nov. 8.
May, Adam J. (See Fertig, C. W., and May.)
McBeath, Allan B. (See Carter, Clark E., assignor.)
McCaffrey, Robert E. (See Miller, A. H., and McCaffrey.)
McCaskell, Vaspar, Salt Lake City, Utah. Clarifying solutions. No. 1,396,514; Nov. 8.
McClevey, Walter S., St. Louis, Mo. Pneumatic tire. No. 1,396,515; Nov. 8.
McDonald, Clarence T., assignor, by mesne assignments, to Chicago Fuse Mfg. Co., Chicago, Ill. Fuse. No. 1,396,233; Nov. 8.
McDonald, Francis A., College Point, N. Y. Stitching-guide. No. 1,396,447; Nov. 8.
McDonald, Leslie R., assignor to M. V. O'Leary, Montreal, Quebec, Canada. Electric motor. No. 1,396,334; Nov. 8.
McDonald, Leslie R., assignor to M. V. O'Leary, Montreal, Quebec, Canada. Constant-speed vibrating motor and method. No. 1,396,335; Nov. 8.
McDonald, Leslie R., assignor to M. V. O'Leary, Montreal, Quebec, Canada. Direct-current vibratory motor. No. 1,396,336; Nov. 8.
McDonald, Leslie R., assignor to M. V. O'Leary, Montreal, Quebec, Canada. Variable amplitude of vibration motor and method. No. 1,396,337; Nov. 8.
McEwan, Charles F., Oak Park, assignor to H. D. Lathrop, Chicago, Ill. Can-washing machine. No. 1,396,516; Nov. 8.
McFadden, James B., assignor to The Sharples Separator Co., West Chester, Pa. Apparatus for producing emulsions. No. 1,396,576; Nov. 8.
McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,396,517; Nov. 8.
McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,396,518; Nov. 8.
McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,396,519; Nov. 8.
McGuire, John J., Yonkers, N. Y. Door for automobiles. No. 1,396,448; Nov. 8.
McNair, Robert, *et al.* (See Thompson, Edward C. and W. H., assignors.)
McWilliam, Robert. (See Champlin, Alvin B., assignor.)
Meacham, Benjamin E., Lorain, Ohio, and C. Munsner, Chicago, Ill., assignors to American Stove Company, St. Louis, Mo. Thermostat fuel-regulating device for gas-stoves. No. 1,396,706; Nov. 8.
Mechano Gear Shift Co. (See Richardson, Bayard E., assignor.)
Megnulty, Ralph A., Kansas City, Mo. Concrete construction. (Reissue.) No. 15,221; Nov. 8.
Mellen, Grenville, Cranford, N. J. Internal-combustion engine. No. 1,396,045; Nov. 8.
Mellor, George S., Philadelphia, Pa. Inner-tube deflator. No. 1,396,646; Nov. 8.
Mercer, Walter M., *et al.* (See Anderson, George A., assignor.)
Mergenthaler Linotype Company. (See Kennedy, David S., assignor.)
Meriwether, Coleman, assignor to P. C. Reilly, Indianapolis, Ind. Metaled-end concrete pipe. No. 1,396,135; Nov. 8.
Merk, Lawrence A., Los Angeles, Calif. Brush-holder. No. 1,396,451; Nov. 8.
Merle, Guido, Bristol, Pa. Music-roll cabinet. No. 1,396,578; Nov. 8.
Mihalic, Milos N., Kansas City, Mo. Trolley-wire switch. No. 1,396,580; Nov. 8.
Militor Corporation, The. (See Dunham, G. W., and Freeman, assignors.)
Miller, Andrew H., and R. R. McCaffrey, Detroit, Mich. Gage or indicator for fluid-holding tanks. No. 1,396,273; Nov. 8.
Miller-Argue, Robert A., Essendon, Melbourne, Victoria, Australia. Apparatus for cranking or starting internal-combustion engines. No. 1,396,647; Nov. 8.
Miller, Donald C., Cleveland, Ohio. Signaling device. No. 1,396,136; Nov. 8.
Miller, Harry A., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Pneumatic-tire-removing apparatus. No. 1,396,707; Nov. 8.
Miller, Robert H., Inc. (See Belknap, Wilbur C., assignor.)
Millikin, John A., Bayonne, assignor to J. H. Marsden, Atlantic City, N. J. Ornamenting glass articles. No. 1,396,651; Nov. 8.
Mills, Reuben D., and H. Paul, Oklahoma, Okla. Automobile-tire filler. No. 1,396,648; Nov. 8.
Mine Safety Appliances Company. (See Mase, Rocoe P., assignor.)
Minshall, George S., Bowling Green, Ky. Well-drilling apparatus. No. 1,396,649; Nov. 8.
Mirgon, Frank J., San Francisco, Calif. Razor-bone holder. No. 1,396,587; Nov. 8.
Mitchel, Charles F., assignor to Bastian Bros. Co., Rochester, N. Y. Button or badge. No. 1,396,137; Nov. 8.
Mitchell Camera Co. (See Leonard, John E., assignor.)
Mogensen, Frank O., Brooklyn, assignor of one-half to C. Christmann, Queens, N. Y. Hose-mounting protector. No. 1,396,452; Nov. 8.
Moessing, Otto. (See Sande, H. B., and Moessing.)
Moffitt, Edward P., Minneapolis, Minn. Demonstrating device. No. 1,396,453; Nov. 8.
Moline Plow Company. (See Frank, T. B., and Carver, assignors.)
Moline Plow Company. (See Lake, St. Clair, assignor.)
Molloy, Edward, assignor to C. F. Stacey, Clapham Common, London, England. Submersible toy. No. 1,396,650; Nov. 8.
Moore, William L., assignor to Window Glass Machine Company, Pittsburgh, Pa. Drawing glass. No. 1,396,230; Nov. 8.
Monroe Calculating Machine Company. (See Phinney, Edgar E., assignor.)
Monroe Calculating Machine Company. (See White, Nelsee, assignor.)
Montgomery, Gustavus A., assignor of one-half to The Gulberson Corporation, Dallas, Tex. Dressing-block. No. 1,396,240; Nov. 8.
Montillo, Isidore, assignor of one-half to W. E. Thompson, Hollister, Calif. Engine-tester. No. 1,396,454; Nov. 8.
Moore, Edgar B., Los Angeles, Calif. Stereoscopic-motion-picture mechanism. No. 1,396,651; Nov. 8.
Moore, Edward L., Eureka, Calif. Educational device. No. 1,396,319; Nov. 8.
Moore, Edward S., Brooklyn, N. Y. Toy theater. No. 1,396,046; Nov. 8.
Moore, George A., Medford, Mass. Capstan-screw. No. 1,396,455; Nov. 8.
Morin, Hormidas, and F. Pothier, Sherbrooke, Quebec, Canada. Sanitary drinking-fountain. No. 1,396,580; No. 8.
Morrison, James, Cincinnati, assignor to The Trailmobile Company, Oakley, Cincinnati, Ohio. Combined motor and animal-draft vehicle. No. 1,396,652; Nov. 8.
Mosher, Clifford C., Lima, Ohio. Machine for treating rubber compound or other plastic materials. No. 1,396,138; Nov. 8.
Mouawad, John J., assignor of one-half to A. Nassour, Newark, N. J. Straw-delivering mechanism. No. 1,396,720; Nov. 8.
Mueller, Augusto E., Chicago, Ill. Washing-machine. No. 1,396,456; Nov. 8.
Mueller, Frederick M. (See Alvin, Alleyne D., assignor.)
Müertz, André, Copenhagen, Denmark. Apparatus for sterilisation or pasteurisation of liquids. No. 1,396,520; Nov. 8.
Multiple Electric Company. (See Bronson, Ralph C., assignor.)
Munsner, Charles. (See Meacham, B. E., and Munsner.)
Murray, John, London, England. Typographical printing-plate. No. 1,396,653; Nov. 8.
Myers, Ray, *et al.* (See Curtis, O. D., assignor.)
Myers, Romaine W., Oakland, Calif. Dynamo-electric machine. No. 1,396,521; Nov. 8.
N. V. Lyn-Protectie, Maatschappij tot Exploitatie Van Electro-technische en Andere Octvoolen. (See Hochstadter, Martin, assignor.)
Nassour, Adbo. (See Mouawad, John J., assignor.)
National Carbon Company. (See Lang, Henry T., assignor.)
National Carbon Company. (See Williams, Charles F. and I. C., assignors.)
National Card Mounting Company. (See List, Francis X., assignor.)
National Paper Can Corporation. (See Penn, George R., assignor.)

Bathiel, Harry, assignor to The Marcelette Hair Curler Co., Inc., New York, N. Y. Hair-waver. No. 1,396,706; Nov. 8.

Neiklirk, John O., Lombard, Ill. Locomotive washout and refilling apparatus. No. 1,396,120; Nov. 8.

Nelson, Arthur, Rock Falls, Ill. Detachable handle. No. 1,396,140; Nov. 8.

Neptune, Herman P., San Diego, Calif. Pneumatic-tire pressure-gage. No. 1,396,141; Nov. 8.

Neth, George, New York, N. Y. Wire-stretcher for packing-boxes. No. 1,396,229; Nov. 8.

Neumeister, Carl L., Scotland, S. D. Straight-edge. No. 1,396,274; Nov. 8.

Newman, Earl B., Findlay, Ohio. Lighting-fixture. No. 1,396,654; Nov. 8.

Newton, Richard T., New York, N. Y. Gage. No. 1,396,655; Nov. 8.

Niebaum, Nicholas A., Johnstown, Pa. Fire-protector. No. 1,396,656; Nov. 8.

Nieuwe, John, Jacksonville, Fla. Stump-puller. No. 1,396,657; Nov. 8.

Nistri, Umberto, Rome, Italy. Method of photogrammetric survey and apparatus therefor. No. 1,396,047; Nov. 8.

Nittal, Frederick W., assignor to M. S. Company, Attleboro, Mass. Jewelry catch or clasp. No. 1,396,658; Nov. 8.

Nordfeldt, Charles B. (See Anthony, A. H., and Nordfeldt.)

Northern Equipment Company. (See Andrews, Roger W., assignor.)

Northwestern Bakers Supply Co. (See Fogelquist, Alexander E., assignor.)

Novak, Alexander, assignor of one-half to J. G. Pinnell, Douglas, Ariz. Refrigerator. No. 1,396,457; Nov. 8.

Noyes Comb Company. (See Noyes, Thomas M., assignor.)

Noyes, Thomas M., assignor to Noyes Comb Company, Binghamton, N. Y. Comb. No. 1,396,276; Nov. 8.

O'Leary, Marguerite V. (See Macdonald, Lucile R., assignor.)

Oliver, Walter E. (See Shoen, W. C., and Oliver.)

Ollivier, Jocelyn B., St. Gervais, France. Runner attachment for motor-vehicles. No. 1,396,659; Nov. 8.

Ordine, Fred., New York, N. Y. Device for digging artificial fruit. No. 1,396,660; Nov. 8.

Ormsby, Donald D. (See Logue, C. H., and Ormsby.)

Orrgor, George, East St. Louis, Ill. Aeroplane. No. 1,396,459; Nov. 8.

Osborn, Frederick W., Newark, and I. F. Webb, Elizabeth, N. J., assignors to The Singer Manufacturing Company. Filled-sack-sewing apparatus. No. 1,396,045; Nov. 8.

Otis, Spencer, Chicago, Ill. Safety washout-plug. No. 1,396,659; Nov. 8.

Owens, Charles, Chattanooga, Tenn. Tractor-plow. No. 1,396,049; Nov. 8.

Owens Company of America. (See Lindemulan, William G., assignor.)

Pace, Aladar, Cleveland Heights, Ohio. Improving ferrous metals. No. 1,396,276; Nov. 8.

Paden, William L., assignor to American Cash Register Company, Saginaw, Mich. Cash-register. No. 1,396,277; Nov. 8.

Paine Company. (See Paine, M. H., and Williams, assignors.)

Paine Company, The. (See Paine, Mathew H., assignor.)

Paine, Mathew H., Glenellyn, and W. S. Williams, Chicago, Ill., assignors to Paine Company. Anchoring device. No. 1,396,278; Nov. 8.

Paine, Mathew H., Glenellyn, and W. S. Williams, Chicago, Ill., assignors to Paine Company. Anchoring device. No. 1,396,279; Nov. 8.

Paine, Mathew H., Glenellyn, Ill., assignor to The Paine Company, Chicago, Ill. Contractible core. No. 1,396,280; Nov. 8.

Palmer, Herman D., assignor to Kissel Motor Car Company, Hartford, Wis. Oil-basin. No. 1,396,060; Nov. 8.

Palmer, William H., Cleveland, Ohio. Sanitary mouthpiece for telephone-transmitters. No. 1,396,660; Nov. 8.

Paque, Edward J., assignor to The Pullak Steel Company, Cincinnati, Ohio. Forming metal articles. No. 1,396,281; Nov. 8.

Parkhill, Frederic W. (See Barclay, M., and Parkhill.)

Parr, Henry A., New York, N. Y. Spring device for chairs. No. 1,396,661; Nov. 8.

Patterson, Carl J., and O. J. Kilburn, Jackson, Mich. Automobile-heater. No. 1,396,522; Nov. 8.

Paul, Hiram. (See Mills, S. D., and Paul, assignor.)

Pawling & Harnischfeger Co. (See Dreyer, Alfred J., assignor.)

Peace, Frederick C., Harrisburg, Pa. Demountable rim. No. 1,396,589; Nov. 8.

Peacock, Samuel, assignor, by mesne assignments, to Wheeling Steel & Iron Company, Wheeling, W. Va. Coating steel sheets with tin. No. 1,396,051; Nov. 8.

Peerless Wire Goods Company, The. (See Snyder, Frank M., assignor.)

Pearson, James M., Florence, Ala. Hulling and cleaning feeder for cotton-gins. No. 1,396,142; Nov. 8.

Pemberton, Elmer, Hyde Park, Calif. Burner. No. 1,396,281; Nov. 8.

Penn, George E., Takoma Park, Md., assignor to National Paper Can Corporation, Washington, D. C. Paper-container. No. 1,396,282; Nov. 8.

Perkins Appliance Company. (See Perkins, Julian L., assignor.)

Perkins, Julian L., West Springfield, assignor to Perkins Appliance Company, Springfield, Mass. Broach-tooth. No. 1,396,525; Nov. 8.

Perry, Clarence A., Forest Hills, N. Y. Combined counter and weighing-scale. No. 1,396,524; Nov. 8.

Perry, Searal M., Roseland, assignor of one-half to J. J. Stoll, Chicago, Ill. Vehicle-wheel. No. 1,396,283; Nov. 8.

Peterson, John E., Newark, N. J. Trimming-die. No. 1,396,230; Nov. 8.

Payser, Joseph, Mount Vernon, N. Y., assignor, by mesne assignments, to Achermann Manufacturing Company, Wheeling, W. Va. Seaming mechanism. No. 1,396,231; Nov. 8.

Pfingstelder, Robert H., Chicago, Ill. Dealcoholizing apparatus. No. 1,396,232; Nov. 8.

Phinney, Edgar E., assignor to Monroe Calculating Machine Company, New York, N. Y. Calculating-machine. No. 1,396,662; Nov. 8.

Phinney, Edgar E., West Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Crank-handle latch. No. 1,396,663; Nov. 8.

Photometric Products Corporation. (See Ladd, Lester L., assignor.)

Pieper, Henri, Liege, Belgium. Coil-retainer for dynamo-electric machines. No. 1,396,525; Nov. 8.

Pierce Arrow Motor Car Company, The. (See Fergusson, David, assignor.)

Pieters, Louise, New York, N. Y. Sanitary bedpans. No. 1,396,284; Nov. 8.

Pimpell, J. G. (See Nowak, Alexander, assignor.)

Pinkerton, Andrew, Ben Avon, assignor to American Sheet and Tin Plate Company, Pittsburgh Pa. Making high-silicon sheets and plates. No. 1,396,663; Nov. 8.

Pipeless Research Corporation. (See Bramberry, Harry M., assignor.)

Plane, Frank W., London, England. Receptacle for vaccine, paint, and the like. No. 1,396,668; Nov. 8.

Podell, Morris, New York, N. Y. Renewable fuse. No. 1,396,460; Nov. 8.

Pollak Steel Company, The. (See Paque, Edward J., assignor.)

Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-gouging and lip-cutting machine. No. 1,396,143; Nov. 8.

Popper, Isaac C., assignor to The Theros Company, New York, N. Y. Railway-switch heater. No. 1,396,664; Nov. 8.

Porter, George G., Syracuse, N. Y. Tool-post. No. 1,396,461; Nov. 8.

Pothier, Frank. (See Morin, H., and Pothier.)

Potter, Harold C., Shreveport, La. Mixing device for internal-combustion engines. No. 1,396,054; Nov. 8.

Powell, John, Elwood, Ind. Transmission-gearing. No. 1,396,526; Nov. 8.

Pressed Prism Plate Glass Company. (See Ross, Myron A., assignor.)

Prescovot, Joseph, Detroit, Mich. Resilient wheel. No. 1,396,323; Nov. 8.

Puratsky, Max, and R. D. Von Rentsch, New York, N. Y. Garment. No. 1,396,462; Nov. 8.

Raabe, Otto L., Jersey City, N. J., assignor to R. Hoe and Co., New York, N. Y. Inking mechanism for printing-machines. No. 1,396,055; Nov. 8.

Raabe, Otto L., Jersey City, N. J., assignor to R. Hoe and Co., New York, N. Y. Impression-adjusting and blanket-ironing device. No. 1,396,056; Nov. 8.

Railway Signal & Equipment Company, The. (See Stotts, Elza S., assignor.)

Ramsey, Milton W. (See Campbell, E. W., and Ramsey.)

Ratterman, Ray G., assignor to Dow Wire and Iron Works, Louisville, Ky. Automobile-bumper. No. 1,396,057; Nov. 8.

Rautenbach, Arthur, Solingen, Germany. Casting and mold therefor. No. 1,396,341; Nov. 8.

Reavel, Clyde C., Marion, Ind. Wrench. No. 1,396,590; Nov. 8.

Recker, Adolph C., Oakville, assignor to The Chase Companies, Inc., Waterbury, Conn. Fastening means for the suspension-chains of electric fixtures. No. 1,396,468; Nov. 8.

Rees, Warren C., Somerville, assignor to Aseptic Service Company, Boston, Mass. Counter-operating mechanism for coin-controlled devices. No. 1,396,343; Nov. 8.

Reiber, Edward W., Adrian, Mich. Spotlight construction. No. 1,396,284; Nov. 8.

Reid, James H., Pittsburgh, Pa., assignor to International Nitrogen Company. Making carbid. No. 1,396,058; Nov. 8.

Reid, James J., South Bend, Ind. Indicator. No. 1,396,283; Nov. 8.

Reinhardt, Peter, St. Paul, Minn. Combination heater and cooker. No. 1,396,464; Nov. 8.

Reilly, Peter C. (See Meriwether, Coleman, assignor.)

Reliance Machine & Specialty Co. (See Bartlett, Leonard, assignor.)

Remington Accounting Machine Corporation. (See Goldberg, Hyman H., now by judicial change of name Hyman Golber, assignor.)

Renstrom, Bros A., administrator. (See Renstrom, Nils A., deceased.)

Renstrom, Nils A., deceased, Omaha, Nebr., B. A. Renstrom, administrator. Sprouting grain. No. 1,396,325; Nov. 8.

Reppetto, Harvey R., assignor to Whitaker-Glessner Company, Wheeling, W. Va. Collapsible sheet-metal oven. No. 1,396,059; Nov. 8.

Reter, Warren D., Williamsonville, N. Y. Double-grip-socket wrench. No. 1,396,591; Nov. 8.

Richberg, Julius, London, England. Light-sensitive collodion-coating mixture and film. No. 1,396,592; Nov. 8.

Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,396,665; Nov. 8.

Rice, Harold G., Chicago, Ill. Bottle-capper. (Reissue.) No. 15,222; Nov. 8.

Rice, James M., Lineville, Ala. Machine for dressing stone. No. 1,396,144; Nov. 8.

Richards, Donald W., San Jose, Calif. Folding cot. No. 1,396,593; Nov. 8.

Richardson, Bayard H., assignor to Mechane Gear Shift Co., Grand Rapids, Mich. Clutch. No. 1,396,343; Nov. 8.

Richter, George A., W. B. Van Arsdel, and D. H. White, assignors to Brown Company, Berlin, N. H. Waterproof fibrous material and making the same. No. 1,396,060; Nov. 8.

Richter, George A., W. B. Van Arsdel and D. H. White, assignors to Brown Company, Berlin, N. H. Water-resistant composition. No. 1,396,527; Nov. 8.

Richter, George A. (See Burningham, F. A., Richter, Van Arsdel, and White.)

Riddle, Karl, West Palm Beach, Fla. Flat-tire alarm. No. 1,396,284; Nov. 8.

Ridinger, Frank V., Youngstown, Ohio, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Liquid-supply system. No. 1,396,061; Nov. 8.

Ritter Dental Manufacturing Company. (See Fertig, C. W., and May, assignors.)

Rix, Edward A., Oakland, Calif. Lubricating system for fluid-compressors. No. 1,396,666; Nov. 8.

Roberts, Frank M., Sharpsburg, Pa. Mandrel for making inner tubes. No. 1,396,145; Nov. 8.

Roever, August E., Brooklyn, N. Y. Clothes-washing machine. No. 1,396,465; Nov. 8.

Roever, August E., Brooklyn, N. Y. Dish-washing machine. No. 1,396,466; Nov. 8.

Romati, Cesare, Turin, Italy. Fastening for attaching braces and for other purposes. No. 1,396,344; Nov. 8.

Ross, Myron A., Chicago, Ill., assignor to Pressed Prism Plate Glass Company, Morgantown, W. Va. Handling abrasive material. No. 1,396,286; Nov. 8.

Ross, Robert C., Wilmette, assignor of one-half to S. Silverman, Chicago, Ill. Arch-support. No. 1,396,528; Nov. 8.

Rornbeck, Claude, Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Tractor-link. No. 1,396,285; Nov. 8.

Rotter, Max, Milwaukee, Wis., assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Marine-power installation. No. 1,396,287; Nov. 8.

Row, James, and C. F. Smith, Holborn, London, England. Clothes rack or hanger. No. 1,396,662; Nov. 8.

Roystone, William H., New York, N. Y. Sales-registration card. No. 1,396,288; Nov. 8.

Rudolph, Walter J., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Pump for priming, &c. No. 1,396,529; Nov. 8.

Rugh, Harry O., Chicago, Ill. Novelty post-card. No. 1,396,698; Nov. 8.

Ruhmann, Grover C. (See Ryan, W. C., and Ruhmann.)

Ruppel, Henry, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Blue-flame oil-burner. No. 1,396,594; Nov. 8.

Russell, Fred E. (See Faltermayer, Harry, assignor.)

Ryan, William C., and G. C. Ruhmann, Kensely, Tex. Insect-catcher. No. 1,396,345; Nov. 8.

Sachsel, Filartus, Kansas City, Mo. Shock-absorber for automobiles. No. 1,396,595; Nov. 8.

Sampson, Philip H., Waubegan, Ill. Railway-track construction. No. 1,396,596; Nov. 8.

Sande, Herman B., and O. Moessing, assignor to Moore Electric Corporation, Chicago, Ill. Hair-clipper. No. 1,396,599; Nov. 8.

Sanders, Harold C., Newport, Wales. Electrical apparatus for heating liquids. No. 1,396,597; Nov. 8.

Sanderson, Arthur L., Paluxy, Tex. Wire-stretcher. No. 1,396,062; Nov. 8.

Sawa, Josef. (See Gepack, Paul, assignor.)

Scheim, Albert N., assignor to L. Levinson, Philadelphia, Pa. Furniture-polish. No. 1,396,346; Nov. 8.

Schlosser, Arthur, New York, N. Y. Advertising-sign. No. 1,396,467; Nov. 8.

Schmid, Julius. (See Steiner, Hans, assignor.)

Schmidt, B. L., Company. (See Joseph, Harry F., assignor.)

Schmidt, Emil P., Boston, Mass. Canopy-support for canoes and other boats. No. 1,396,063; Nov. 8.

Schneider & Cie. (See Schneider, Eugène, assignor.)

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for increasing the range of elevation in single-trail guns. No. 1,396,064; Nov. 8.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Motor-car having four driving-wheels for the transport of guns. No. 1,396,598; Nov. 8.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Motor-car having four driving-wheels for the transport of guns. No. 1,396,599; Nov. 8.

Schofield, Frederick C., assignor to Comas Cigarette Machine Company, Salem, Va. Coupon or card feeding device. No. 1,396,531; Nov. 8.

Schrader, Herbert, Wheeling, W. Va. Sanitary can. No. 1,396,065; Nov. 8.

Schroedter, Herman M. (See Howell, Evelyn L. V., assignor.)

Schwars, Richard E., Royal Oak township, Oakland county, Mich. Shingle-machine. No. 1,396,466; Nov. 8.

Scott, G. H., Machine Company. (See Hafvenmeister, William C., assignor.)

Scott, Harry E., assignor to The Brown Hoisting Machinery Company, Cleveland, Ohio. Means for braking cranes. No. 1,396,532; Nov. 8.

Scott, Walter B., Marblehead, Mass. Toy. No. 1,396,289; Nov. 8.

Seaman, Halleck W. (See Crawford, Albert G., assignor.)

Seely, Thomas H., Malden, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Thread gripping and cutting device for shoe-sewing machines. No. 1,396,066; Nov. 8.

Segschneider, Gustav, Yonkers, N. Y. Bread-slicing machine. No. 1,396,290; Nov. 8.

Setkowski, Edward, Clifton, N. J. Locking device for vehicles. No. 1,396,067; Nov. 8.

Shambow Shuttle Company. (See Brouillette, Albert J., assignor.)

Sharples Separator Co., The. (See McFadden, James R., assignor.)

Shaw, Bruce A., Oak Park, Ill. Automatic fowl-spray. No. 1,396,533; Nov. 8.

Shaw, Frank H., Chicago, Ill., assignor to Kalamazoo Loose Leaf Binder Co., Kalamazoo, Mich. Desk. No. 1,396,291; Nov. 8.

Sheck, Oscar, assignor to Koehring Machine Company, Milwaukee, Wis. Driving means for concrete-distributers. No. 1,396,534; Nov. 8.

Sheets, Harry A., Jr., New York, N. Y. Vulcanizer-igniter. No. 1,396,068; Nov. 8.

Sheets, Harry A., Jr., New York, N. Y. Vulcanizer. No. 1,396,069; Nov. 8.

Shields, Frank S., East Cleveland, assignor, by mesne assignments, to The Clark & Mesker Milling Machine Company, Cleveland, Ohio. Relieving-machine. No. 1,396,292; Nov. 8.

Shimer, Elmer S., Milton, Pa. Lead-pencil. No. 1,396,535; Nov. 8.

Shindoll, William H., Arlington, S. D. Automatic tally for dispensing-faucets. No. 1,396,536; Nov. 8.

Shorb, William A., assignor to Leader Iron Works, Decatur, Ill. Separating-trap. No. 1,396,384; Nov. 8.

Shoap, Walter C., Milburn township, Essex county, and W. E. Oliver, Woodcliff-on-Hudson, N. J., assignors to Autographic Register Company, New York, N. Y. Paper-feed device for autographic registers. No. 1,396,070; Nov. 8.

Sibley, Amos H., Ship Bottom, N. J. Artificial teeth. No. 1,396,071; Nov. 8.

Silver, Herman, assignor to The Louden Machinery Company, Fairfield, Iowa. Ventilating-cupola for barns and the like. (Reissue.) No. 15,223; Nov. 8.

Silverman, Samuel. (See Rees, Robert C., assignee.)

Simi, Bohuslav, Chicago, Ill. Dental amalgam or alloy mixer. No. 1,396,537; Nov. 8.

Simmons Company. (See Travis, Don C., assignor.)

Simms, Irwin B., Stockton, Calif. Combination lock and switch. No. 1,396,667; Nov. 8.

Simplex Pneumatic Tire Company. (See Emeno, William H., assignor.)

Simpson, Alfred M., Honolulu, Hawaii. Rotary cutter. No. 1,396,600; Nov. 8.

Singer Manufacturing Company, The. (See Herr, Park A., assignor.)

Singer Manufacturing Company, The. (See Ostrom, F. W., and Webb, assignors.)

Sitzler, Guy A., Tacoma, assignor to Dutho Rubber Company, Pierce county, Wash. Three-piece mold. No. 1,396,293; Nov. 8.

Smiley, Elmer, Moravia, Iowa. Shoe-capping last. No. 1,396,146; Nov. 8.

Smith, Charles F. (See Row, J., and Smith.)

Smith, David T., Mead, Nebr. Gun-searchlight. No. 1,396,147; Nov. 8.

Smith, Francis L., Denver, Colo. Tip for shoe-laces. No. 1,396,601; Nov. 8.

Smith, Richard H., Keighley, England. Shuttle-actuating mechanism for looms. No. 1,396,602; Nov. 8.

Smith Scale Company, The. (See Smith, Walter S., assignor.)

Smith, Walter S., assignor to The Smith Scale Company, Columbus, Ohio. Weighing-scale. No. 1,396,668; Nov. 8.

Snow, Eugene A., River Forest, Ill. Focusing-socket for electric lamps. No. 1,396,294; Nov. 8.

Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,396,669; Nov. 8.

Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,396,670; Nov. 8.

Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,396,671; Nov. 8.

Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,396,672; Nov. 8.
Snyder, Frank M., assignor to The Peerless Wire Goods Company, La Fayette, Ind. Supporting-leg for superposing trays. No. 1,396,148; Nov. 8.
Societe Anonyme des Etablissements L. Blériot. (See Bossu, Pierre, assignor.)
Soper, Ellis C., Chattanooga, Tenn. Treatment of phosphates. No. 1,396,149; Nov. 8.
Sparks, Charles, assignor to Kellogg Switchboard & Supply Co., Chicago, Ill. Relay. No. 1,396,072; Nov. 8.
Speed-Up Wrench and Manufacturing Company. (See Hand, John G., assignor.)
Spierer, Léon, Geneva, Switzerland. Bearing. No. 1,396,295; Nov. 8.
Sprague, Douglas, Mount Vernon, N. Y. Reel. No. 1,396,236; Nov. 8.
Springer, William J., Detroit, Mich. Pump. No. 1,396,296; Nov. 8.
St. Pierre, Octave J., Chicago, Ill. Game. No. 1,396,073; Nov. 8.
Stables, Arthur, Los Angeles, Calif. Cotton-list collector. No. 1,396,675; Nov. 8.
Stacey, Cyril F. (See Molloy, Edward, assignor.)
Standard Car Truck Company. (See Barber, Franklin L., assignor.)
Standard Oil Company. (See Branaky, Oscar E., assignor.)
Standard Parts Company, The. (See Dahlquist, Charles S., assignor.)
Stearly, Hattie, administratrix. (See Taggart, William P.)
Steele, Archie W., Bloomfield, assignor to W. J. Hawkins, Montclair, N. J. Electric fuse. No. 1,396,297; Nov. 8.
Steele, Mary J., San Francisco, Calif. Dispensing-container. No. 1,396,469; Nov. 8.
Steiner, Hans, Vienna, Austria, assigno rte J. Schmid, New York, N. Y. Producing imitations of galalith, celluloid, and the like. No. 1,396,075; Nov. 8.
Stemmons, Beverly L., Charlotte, N. C., assignor to General Electric Company. Protective device. No. 1,396,538; Nov. 8.
Stevens, William C., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Circuit-controller. No. 1,396,694; Nov. 8.
Stewart, Alexander, Waupaca, Wis. Clamshell-dumping device. No. 1,396,847; Nov. 8.
Stewart, Benjamin, Des Moines, Iowa. Glove and mitten structure. No. 1,396,539; Nov. 8.
Stewart-Warner Speedometer Corporation. (See Risinger, Frank V., assignor.)
Stewart-Warner Speedometer Corporation. (See Wood, Andrew C., assignor.)
Stice, Fred W., Tama, Iowa. Coin-controlled mechanism. No. 1,396,285; Nov. 8.
Stickney, Burnham C., Elisabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,396,348; Nov. 8.
Stiglitz, William H., Louisville, Ky. Drain-cock-operating device. No. 1,396,540; Nov. 8.
Stockland, Arthur, Minneapolis, Minn. Screw-cap wrench. No. 1,396,298; Nov. 8.
Stoll, John J. (See Perry, Searal M., assignor.)
Stolte, Florence P. (See Doyle, William F., assignor.)
Stotts, Elsa S., assignor to The Railway Signal & Equipment Company, Des Moines, Iowa. Adjustable wheel-anchor. No. 1,396,076; Nov. 8.
Stotts, Elsa S., assignor to The Railway Signal & Equipment Company, Des Moines, Iowa. Drain-valve trap. No. 1,396,077; Nov. 8.
Stromberg, Oscar, Los Angeles, Calif. Trap-nest. No. 1,396,556; Nov. 8.
Stumpenhorst, John A., Wilkinsburg, Pa. Motor-vehicle driving mechanism. No. 1,396,074. Nov. 8.
Submarine Signal Company. (See Williams, Robert L., assignor.)
Summerfield, Benard, Chicago, Ill. Detachable heel. No. 1,396,299; Nov. 8.
Sylvestre, Charles, Winnepeg, Manitoba, Canada. Gas-controlling device for linotype-machines. No. 1,396,705; Nov. 8.
Taggart, William P., deceased, Reading, by H. Stearly, administratrix, Philadelphia, Pa., assignor to The United States Coal Manufacturing Company. Making briquets and products thereof. No. 1,396,603; Nov. 8.
Taylor, Henry H. (See Hammond, M. B., and Taylor.)
Taylor, Thomas, Chicago, Ill. Golf-club. No. 1,396,470; Nov. 8.
Taylor, Thos. P., Company, The. (See Hammond, M. B., and Taylor, assignors.)
Taper, Robert T., *et al.* (See Anderson, George A., assignor.)
Teuniss, William C., Grand Rapids, Mich. Phonograph-brake. No. 1,396,471; Nov. 8.
Texas Company, The. (See Hull, Burton E., assignor.)
Theros Company, The. (See Popper, Isaac C., assignor.)
Thomasson, Adam P., Chicago, Ill. Fuel-saving device. No. 1,396,472; Nov. 8.
Thomson, Elihu, Lynn, Mass., assignor to General Electric Company. Electric-battery system and operating the same. No. 1,396,541; Nov. 8.
Thompson, Charles W., Pensacola, Fla. Display-rack. No. 1,396,300; Nov. 8.
Thompson, Edward C. and W. H., assignors of one-fourth to R. McNair and one-fourth to C. H. Long, Seattle, Wash. Wrench. No. 1,396,387; Nov. 8.
Thompson, Joseph J., Los Angeles, Calif. Drilling-rig. No. 1,396,473; Nov. 8.
Thompson, William H. (See Montilije, Isidore, assignor.)
Thompson, William H. (See Thompson, Edward C. and W. H.)
Thum, Rudolf, Baldwin, N. Y. Gun. No. 1,396,849; Nov. 8.
Tibbetts, Raymond F., Chicago, Ill. Shaving-brush. No. 1,396,474; Nov. 8.
Tone, Fred I., assignor to Child H. Wills, Detroit, Mich. Steering mechanism for automobiles. No. 1,396,604; Nov. 8.
Tracey, Daniel F., assignor to The Loping Horse & Novelty Co., Huntington, W. Va. Hobbyhorse. No. 1,396,475; Nov. 8.
Tracy, David D., Jackson, Mich. Sectional conduit. No. 1,396,301; Nov. 8.
Trailmobile Company, The. (See Morrison, James, assignor.)
Travis, Doa C., assignor to Simmons Company, Kenosha, Wis. Bedstead. No. 1,396,476; Nov. 8.
Tufts, Robert B., Kirkwood, Ga. Installation of concrete footings for piles and the like. No. 1,396,542; Nov. 8.
Turnbull, David H., Mishawaka, Ind. Axle-gaging device. No. 1,396,477; Nov. 8.
Turney, Albert, Kansas City, Mo. Sash-lock. No. 1,396,478; Nov. 8.
Tyden, Emil, Evanston, Ill. Bag-tie seal-lock. No. 1,396,479; Nov. 8.
U. S. Industrial Alcohol Co. (See Backhaus, Arthur A., assignor.)
U. S. Industrial Alcohol Co. (See Backhaus, A. A., and Haner, assignors.)
U. S. Industrial Alcohol Co. (See Cochrane, William F., assignor.)
U. S. Industrial Alcohol Co. (See Haner, Carl, Jr., assignor.)
U. S. Industrial Alcohol Co. (See Whitaker, Milton C., assignor.)
Underwood Computing Machine Company. (See Stickney, Burnham C., assignor.)
Unger, Paul O. (See Fargo, C. R., and Unger.)
Union Switch & Signal Company, The. (See Dunham, Charles W., assignor.)
United Shoe Machinery Corporation. (See Ashton, Orrell, assignor.)
United Shoe Machinery Corporation. (See Brock, Matthias, assignor.)
United Shoe Machinery Corporation. (See Furber, Frederick M., assignor.)
United Shoe Machinery Corporation. (See Goddu, George, assignor.)
United Shoe Machinery Corporation. (See Goddu, G., and Mackenzie, assignors.)
United Shoe Machinery Corporation. (See Hill, George R., assignor.)
United Shoe Machinery Corporation. (See Kelly, John A., assignor.)
United Shoe Machinery Corporation. (See Lancaster, John T., assignor.)
United Shoe Machinery Corporation. (See Pope, Joseph H., assignor.)
United Shoe Machinery Corporation. (See Seely, Thomas H., assignor.)
United States Coal Manufacturing Company, The. (See Taggart, W. P., assignor.)
Universal Electric Welding Company. (See Lachman, Maurice, assignor.)
Upson, Ralph H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Obtaining samples from a balloon while inflated. No. 1,396,709; Nov. 8.
Usher, Harold, and C. H. J. Gooch, London, assignors to Wood Postal Boxes Limited, Stratford, England. Manufacture and production of boxes for postal and other purposes. No. 1,396,605; Nov. 8.
Vail, Carl, Rochester, N. Y. Lens-front mount. No. 1,396,868; Nov. 8.
Van Arsdel, Wallace B. (See Burningham, F. A., Richter, Van Arsdel, and White.)
Van Arsdel, Wallace B. (See Richter, G. A., Van Arsdel, and White.)
Van Deventer, George. (See Fechner, E., and Van Deventer.)
Van Huele, Maxime L. (See Grunig, F., and Van Huele.)
Van Range, John Company, The. (See Kaiser, Louis H., assignor.)
Vanderlip, Louis C., Elkhart, Ind. Vehicle steering mechanism. No. 1,396,078; Nov. 8.
Vandickle, Fred M., Lewiston, Idaho. Sanitary seat-cover. No. 1,396,480; Nov. 8.
Vaughan, David P., Riverton, N. J. Spool. No. 1,396,481; Nov. 8.
Vaughn, Fred S., assignor to Automatic Gas Power Company, Quincy, Ill. Fluid-pressure system. No. 1,396,482; Nov. 8.
Veenschoten, Vincent V., Erie, Pa. Fluid-pressure system. No. 1,396,237; Nov. 8.
Victor Adding Machine Co. (See Johantgen, Oliver D., assignor.)

Villiger, Victor, and H. von Krannichfeldt, Ludwigshafen-on-the-Rhine, Germany. Green dyestuff and making same. No. 1,396,483; Nov. 8.
Vincent, Charles W., Ashley, Pa. Funnel. No. 1,396,606; Nov. 8.
Visible Gasoline Filter Company. (See Fell, William, assignor.)
Von Krannichfeldt, Heinrich. (See Villiger, V., and von Krannichfeldt.)
Von Post, Gustaf, New York, N. Y. Reading device for scales. No. 1,396,607; Nov. 8.
Von Rentsch, Robert D. (See Pugatsky, M., and Von Rentsch.)
Waggoner, Victor H., *et al.* (See Anderson, George A., assignor.)
Wagner, Julian W., Detroit, Mich. Work-holder. No. 1,396,302; Nov. 8.
Walker, Arthur N., Bolton, England. Apparatus for treating hides. No. 1,396,699; Nov. 8.
Walker, Isham P., Tyler, Tex. Building construction. No. 1,396,543; Nov. 8.
Walling, John E., Bessemer, Ala. Pulley. No. 1,396,608; Nov. 8.
Walsh, Peter R., Worcester, Mass. Bifocal lens. No. 1,396,303; Nov. 8.
Warnock, Robert, assignor to Empire Cream Separator Company, Bloomfield, N. J. Air-pump. No. 1,396,079; Nov. 8.
Warring, Charles A., Cleveland, Ohio. Direction-indicator. No. 1,396,304; Nov. 8.
Waters, William R., Davenport, Iowa. Belt-stretching devices. No. 1,396,805; Nov. 8.
Waters, William R., Davenport, Iowa. Belt-stretcher. No. 1,396,806; Nov. 8.
Watt, Stuart G., Geraldine, Mont. Fastening device. No. 1,396,238; Nov. 8.
Watters, John H., Anniston, Ala. Track-sander. No. 1,396,807; Nov. 8.
Webb, Irving F. (See Ostrom, F. W., and Webb.)
Weed, Harry D., U. S. Army. Bomb carrying and release system. No. 1,396,150; Nov. 8.
Weinberger, Julius. (See Goldsmith, A. N., and Weinberger.)
Weisenborn, George P. A., Salt Lake City, Utah, assignor by mesne assignments, to said George P. A. Weisenborn, trustee in trust of the United Manufacturing and Power Company, Seattle, Wash. Current or tide motor. No. 1,396,609; Nov. 8.
Weisenborn, George P. A., trustee in trust of The United Manufacturing and Power Company. (See Weisenborn, George P. A., assignor.)
Weinrich, Gladys H., Chicago, Ill. Ornamental tray and the like. No. 1,396,484; Nov. 8.
Weister, Edward P., Ranger, Tex. Polished-rod clamp. No. 1,396,610; Nov. 8.
Wellington, Leonard A., Keene, N. H. Phonographic-record-cleaning device. No. 1,396,544; Nov. 8.
Wheeler, William I., Scottville, Ill. Speed-changing mechanism. No. 1,396,151; Nov. 8.
Wheeling Steel & Iron Company. (See Peacock, Samuel, assignor.)
Whitaker-Glessner Company. (See Reppetto, Harvey B., assignor.)
Whitaker, Milton C., New York, N. Y., assignor to U. S. Industrial Alcohol Co. Catalyser apparatus. No. 1,396,889; Nov. 8.
White, Donald H. (See Burningham, F. A., Richter, Van Arsdel, and White.)
White, Donald H. (See Richter, G. A., Van Arsdel, and White.)
White, Edward F., New York, N. Y. Purifying sulfur. No. 1,396,485; Nov. 8.
White, Ernest C., assignor to Duplexalite Corporation, New York, N. Y. Lighting-fixture. No. 1,396,486; Nov. 8.
White, Fernand G., Meriden, Conn. Producing coal-tar paint. No. 1,396,674; Nov. 8.
White, George W., Atlanta, Ga. Retaining device for screws or bolts. No. 1,396,611; Nov. 8.
White, Nelson, Des Moines, Iowa, assignor to Monroe Calculating Machine Company, New York, N. Y. Zero-setting mechanism. No. 1,396,612; Nov. 8.
Whitney, Maurice P., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,396,695; Nov. 8.
Wiley, Arthur B., Sweetwater, Okla. Camper's cooker. No. 1,396,613; Nov. 8.
Williams, Calvin C. (See Williams, John, C. C., and H.)
Williams, Charles F. and I. C., De Loug, Ind., assignors to National Carbon Company, Inc. Separator for storage batteries. No. 1,396,390; Nov. 8.
Williams, Edward H., New Orleans, La. Micrometer-gage. No. 1,396,614; Nov. 8.
Williams, George G., Dallas, Tex. Blow-out boot. No. 1,396,487; Nov. 8.
Williams, Henry. (See Williams, John, C. C., and H.)
Williams, Ira C. (See Williams, Charles F. and I. C.)
Williams, John, C. C., and H., Philadelphia, Pa. Brake-actuating mechanism for automobiles. No. 1,396,488; Nov. 8.
Williams, Joseph T. C., Afiex, Ky. Aerial apparatus. No. 1,396,489; Nov. 8.
Williams, Paul F., Chicago, Ill. Filing-cabinet or the like. No. 1,396,490; Nov. 8.
Williams, Robert L., Newton, Mass., assignor to Submarine Signal Company, Portland, Me. Device for estimating distances. No. 1,396,491; Nov. 8.
Williams, Windsell S. (See Paine, M. H., and Williams.)
Willis, Child H. (See Tone, Fred I., assignor.)
Wilson, John T., Jersey City, N. J. Measuring device. No. 1,396,308; Nov. 8.
Wilson, Leon T., West Somerville, Mass. Electrical measuring instrument. No. 1,396,350; Nov. 8.
Winchester Repeating Arms Company. (See Burton, F. F., and Joeck, assignors.)
Window Glass Machine Company. (See Monro, William L., assignor.)
Winslow, Harry F., Brooklyn, N. Y. Grinding-mill. No. 1,396,152; Nov. 8.
Wittern, Frank H., Flandreau, S. D. Weather-stripping for vehicles. No. 1,396,153; Nov. 8.
Wolfe, Arthur P., Philadelphia, Pa. Machine for snipping string-beans. No. 1,396,080; Nov. 8.
Wolfe, Homer L. (See Davis, C. A., and Wolfe.)
Woodbridge, Richard G., Jr., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making propellent powder. No. 1,396,493; Nov. 8.
Woodcock, Frederick, Duanesburg, N. Y. Spike-puller. No. 1,396,616; Nov. 8.
Wood, Andrew C., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Magnetic speedometer. No. 1,396,061; Nov. 8.
Wood, James J., Fort Wayne, Ind., assignor, by mesne assignments, to Hurley Machine Company, Chicago, Ill. Power-drive for washing-machines. No. 1,396,062; Nov. 8.
Wood, Marion E. (See Cochran, M. L., and Wood.)
Wood Postal Boxes Limited. (See Usher, H., and Gooch, assignors.)
Woods, Clinton E., Waterbury, Conn. Talking-machine. No. 1,396,063; Nov. 8.
Wodraska, Walter J., New York, N. Y. Pneumatic action. No. 1,396,492; Nov. 8.
Woolard, William F., *et al.* (See Hampden, Wellesley R., assignor.)
Worthington Pump and Machinery Corporation. (See Haeberlein, Max, assignor.)
Wright-Austin Company. (See Hinchey, Harry J., assignor.)
Wright, John G., assignor to The D. W. Bosley Co., Chicago, Ill. Drawer-slide. No. 1,396,064; Nov. 8.
Wright, John G., and H. F. Bennett, Chicago, Ill.; said Bennett assignor to said Wright. Door-strip. No. 1,396,065; Nov. 8.
Wright, Richard, Philadelphia, Pa. Air-pump. No. 1,396,494; Nov. 8.
Wright, Thomas H., Los Angeles, Calif. Making potash alum. No. 1,396,675; Nov. 8.
Young, Clarence E., Leesburg, Ind. Electrical system. No. 1,396,309; Nov. 8.
Young, Jesse B., Rush Ky. Match-box. No. 1,396,545; Nov. 8.
Youngquist, Henry W., Manchester, N. H., assignor to Draper Corporation, Hopedale, Mass. Weft-replenishing mechanism for looms. No. 1,396,154; Nov. 8.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Anderson, Frank, assignor to Barcalo Manufacturing Company, Buffalo, N. Y. Bedstead end frame. Nos. 59,572–3; Nov. 8.

Bannihr, Fredericka L., Atlantic City, N. J. Combination brassière-girdle. No. 59,574; Nov. 8.

Barcalo Manufacturing Company. (See Anderson, Frank, assignor.)

Bissonette, Frank, Winooski, Vt. Shrine. No. 59,575; Nov. 8.

Blackwell, William T., Westfield, N. J., assignor to Westinghouse Lamp Company. Shade for lighting-fixtures. No. 59,576; Nov. 8.

Boething, Majory A., Los Angeles, Calif. Handbag. No. 59,577; Nov. 8.

Brass Goods Mfg. Co. (See Hyatt, Frank S., assignor.)

Burton, Adolphe M., Baltimore, Md. Toy dog. No. 59,578; Nov. 8.

Carr, James H. A., McKees Rocks, Pa. Combined microscope and mirror. No. 59,579; Nov. 8.

Chicago Papier-Mache Co. (See Doerre, Otto J., assignor.)

Cone Company of America. (See Lawton, Thomas F., assignor.)

Copeland, Francis C., assignor of one-half to E. C. Streich, San Francisco, Calif. Automobile-steering-column lock. No. 59,580; Nov. 8.

Doerre, Otto J., assignor to Chicago Papier-Mache Co., Chicago, Ill. Lamp-base. No. 59,581; Nov. 8.

Dunn, Elmer C. (See Thornton, N. T., and Dunn.)

Frost, Clinton E., Cleveland, Ohio. Amusement device. No. 59,582; Nov. 8.

Goodwin, Charles W., *et al.* (See Hopkins, James H., assignor.)

Green, William H., New York, N. Y., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Sifter-top can or similar receptacle. Nos. 59,583–7; Nov. 8.

Gunn, Lillian Z., Chicago, Ill. Pin-holder. No. 59,588; Nov. 8.

Heathcote, Edwin C., Brooklyn, N. Y. Emblem, pin, button, or similar article. Nos. 59,589–91; Nov. 8.

Hopkins, James H., assignor to J. McComas and C. W. Goodwin, Pomona, Calif. Vaporizer for internal-combustion engines. No. 59,592; Nov. 8.

Hughes, Roland T., Oak Park, assignor to Moran & Macnair Inc., Chicago, Ill. Lighting-fixture. Nos. 59,593–4; Nov. 8.

Humphrey, Clen S., Brooklyn, N. Y. Powder-container or similar receptacle. No. 59,595; Nov. 8.

Hyatt, Frank S., assignor to Brass Goods Mfg. Co., Brooklyn, N. Y. Slip-cap for powder-container tops. Nos. 59,596–7; Nov. 8.

Juthe, John C., Allston, Mass. Child's wheel toy. No. 59,598; Nov. 8.

Katzenstein, Leon L., Worcester, Mass. Panel for a lamp-shade. No. 59,599; Nov. 8.

Kellogg, Edmund P., assignor to Albert Pick & Company, Chicago, Ill. Cabinet. No. 59,600; Nov. 8.

Kilgore, Alice G., St. Paul, Minn. Package containing candy. No. 59,601; Nov. 8.

Kraeuter, Arthur A., South Orange, N. J. Ornamentation of a pliers-handle. No. 59,602; Nov. 8.

Lawton, Thomas F., assignor to Cone Company of America, New York, N. Y. Ice-cream cone. No. 59,603; Nov. 8.

McCarthy, Ernest F., Worcester, Mass. Lamp-support. No. 59,604; Nov. 8.

McComas, Jesse, *et al.* (See Hopkins, James H., assignor.)

Moran & Macnair Inc. (See Hughes, Roland T., assignor.)

Peloquin, Frank E., Providence, R. I. Finger-ring. No. 59,605; Nov. 8.

Pick, Albert, & Company. (See Kellogg, Edmund P., assignor.)

Simmons Company. (See Stuart, Charles A., assignor.)

Skiles, Frank C., Chicago, Ill. Loose-leaf book. No. 59,606; Nov. 8.

Spencer, Lane H., executor. (See Spencer, Robert.)

Spencer, Robert, South Orange, N. J.; L. H. Spencer, executor. Easel. No. 59,607; Nov. 8.

Streich, Edward C. (See Copeland, Francis C., assignor.)

Stuart, Charles A., assignor to Simmons Company, Kenosha, Wis. Bedstead-frame. Nos. 59,609–10; Nov. 8.

Stuart, Charles A., assignor to Simmons Company, Kenosha, Wis. Grille for bedstead-frames. No. 59,608; Nov. 8.

Taylor, Harry A., New York, N. Y. Glove. No. 59,611; Nov. 8.

Tennefass, Jans T., Minneapolis, Minn. Watch-charm. No. 59,612; Nov. 8.

Thornton, Noble T., and E. C. Dunn, Keokuk, Iowa; said Thornton assignor to said Dunn. Clothes-lifting stick. No. 59,613; Nov. 8.

Tin Decorating Company of Baltimore, The. (See Green, William H., assignor.)

Tockes, Frank, Chicago, Ill. Chest. No. 59,614; Nov. 8.

Westinghouse Lamp Company. (See Blackwell, William T., assignor.)

Wright, Frank M., Albany, N. Y. Jewelry-box. Nos. 59,615–16; Nov. 8.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A. P. W. Paper Company, Albany, N. Y. Toilet, tissue, and crape paper and paper towels. No. 148,201; Nov. 8.

A/S Trondhjem Canning and Export Co., Buran, Trondhjem, Norway. Canned fish. No. 148,283; Nov. 8.

Abbott Laboratories, The, Chicago, Ill. Anesthetic compound. No. 147,893; Nov. 8.

Abramovitz, N., & Co. Inc., New York, N. Y. Canned fish. No. 147,894; Nov. 8.

Adams, Geo. H., Co., Waltham, Mass., and Hill, N. H. Latch-needles for knitting-machines. No. 147,895; Nov. 8.

Allcock, S., & Co. Limited, Redditch, England. Artificial bait. No. 147,896; Nov. 8.

Alpine Chocolate Company, Boston, Mass. Candy. No. 147,897; Nov. 8.

Aluminium-Walzwerke A.-G., Schaffhausen, Switzerland. Lamp-sockets made of aluminium for electrical fixtures. No. 147,898; Nov. 8.

American Biscuit Company, San Francisco, Calif. Sugar wafers and cakes. No. 147,899; Nov. 8.

American Bleached Goods Company, New York, N. Y.; Chicago, Ill., and St. Louis, Mo. Cotton piece goods. No. 147,900; Nov. 8.

American Cellulose & Chemical Manufacturing Company, Limited, The, New York, N. Y. Wire cloth and netting. No. 147,901; Nov. 8.

American Lady Corset Co., Detroit, Mich. Corsets and brassières. No. 147,902; Nov. 8.

American Levant Syndicate Inc., New York, N. Y. Wheat-flour. No. 147,903; Nov. 8.

American Lumberman, The, Chicago, Ill. Weekly periodicals and publications. No. 147,904; Nov. 8.

American Radiator Company, East Orange, N. J., and Chicago, Ill. Thermometers and steam-pressure and altitude gages. No. 147,905; Nov. 8.

Angora Specialty Co. Inc., Brooklyn, N. Y. Coats and suits for men and women. No. 147,906; Nov. 8.

Araho Co., Inc., The, New York, N. Y. Toilet-preparations, face-powder, rouge, grease paint, and lip-sticks. No. 147,907; Nov. 8.

Archibald, A. J., Co., Inc., New York, N. Y. Insect-powder. No. 147,908; Nov. 8.

Argos Steel Products Corporation, New York, N. Y. Steel castings and forgings. No. 147,909; Nov. 8.

Armstrong, Sagar & Co., Manchester, England. Cotton piece goods. No. 147,910; Nov. 8.

Arthur Balfour Steel Co. Inc., The, Wilmington, Del., and Boston, Mass. Steel bars. No. 147,911; Nov. 8.

Arto Co., The, Orange, N. J. Talking-machine records. No. 147,912; Nov. 8.

Associated Oil Company, San Francisco, Calif. Petroleum products. No. 147,913; Nov. 8.

Aurora Tool Works, Aurora, Ind. Metal-drilling machines. No. 147,914; Nov. 8.

Automobile Club of St. Louis, St. Louis, Mo. Magazines published monthly. No. 147,915; Nov. 8.

Bankers Publicity Company, St. Louis, Mo. Check and bank books, savings-bank books, checks, drafts, bills, and notes. No. 147,917; Nov. 8.

Banquetier Zola Co., Cleveland, Ohio. Service-ring for pyramidings, plates, dishes, &c., for hotels, &c. No. 148,823; Nov. 8.

Barbee Wire & Iron Works, La Fayette, Ind., and Chicago, Ill. Wire baskets. No. 147,918; Nov. 8.

Bayerdorffer, Max, Huguenot Park, N. Y. Leg-rings used as poultry-markers. No. 147,919; Nov. 8.

Beadle, Blanche E., Springfield, Mass. Hair-curlers. No. 147,920; Nov. 8.

Bearskin Cotton Mills, Inc., Monroe, N. C. Thread and yarn. No. 147,922; Nov. 8.

Bechler, André, Moutier, Switzerland. Lathes and automatic lathes, &c. No. 147,923; Nov. 8.

Belden Manufacturing Company, Chicago, Ill. Magnet-wires. No. 147,924; Nov. 8.

Belden Manufacturing Company, Chicago, Ill. Magnet-wires. No. 147,927; Nov. 8.

Benedetti, F. & A. Vannossi & Co., Trenton, N. J. Washing fluids. No. 147,925; Nov. 8.

Bennett and Aspden Company, Philadelphia, Pa. Velvets in the piece. No. 147,926; Nov. 8.

Best, C. L., Tractor Co., San Leandro, Calif. Tractors. No. 148,824; Nov. 8.

Bianchini, Férier, Lyon, France. Piece goods of silk. No. 147,928; Nov. 8.

Blackstaff Flax Spg. & Wvg. Co. Ltd., The, Belfast, Ireland. Threads of flax, hemp, tow, and ramie. No. 147,930; Nov. 8.

Blake & Amber, San Francisco, Calif. Printed publications. No. 147,929; Nov. 8.

Blue Bell Peanut Butter Company, Grand Rapids, Mich. Peanut-butter. No. 147,931; Nov. 8.

Boericke & Tafel, Philadelphia, Pa. Certain medicinal preparations. No. 147,932; Nov. 8.

Bornstein, Esther L., Cambridge, Mass. Three-piece play-suits, blouses, bloomers, and skirts. No. 147,933; Nov. 8.

Bassong, Joseph C., Brooklyn, N. Y. Hosiery. No. 147,934; Nov. 8.

Boutselis, James, Collinsville, Mass. Preparations. No. 147,935; Nov. 8.

Brandt, Joseph, New York, N. Y. Hatpins. No. 147,936; Nov. 8.

Brann, Geo. P., Company, Chicago, Ill. Oleomargarin. No. 148,325; Nov. 8.

Brauchaud, Jules, Olive Bridge, N. Y. Live cattle, calves, swine, goats, sheep, butter, and milk. No. 147,937; Nov. 8.

Brill, J. G., Company, The, Philadelphia, Pa. House organ published monthly. No. 147,938; Nov. 8.

Brooks, Wayne A., Detroit, Mich. Diarrhea remedy for domestic fowl. No. 147,939; Nov. 8.

Brown, William H., Cleveland, Ohio. Flexible knitting-needles. No. 147,940; Nov. 8.

Brunswick-Balke-Collender Company, Wilmington, Del., and Chicago, Ill. Phonograph-records. No. 147,941; Nov. 8.

Buckeye Traction Ditcher Company, The, Findlay, Ohio. Pipe-screwing apparatus and oil-well pulling and cleaning apparatus. No. 147,942; Nov. 8.

Buffalo Forge Company, Buffalo, N. Y. Metal-working, sugar-making, &c., machinery. No. 147,943; Nov. 8.

Burdwise, Aaron, Baltimore, Md. Certain musical instruments. Nos. 147,944–5; Nov. 8.

Burkey, Jos., Lancaster, Pa. Furniture-polish. No. 147,946; Nov. 8.

Butterick Publishing Company, The, New York, N. Y. Quarterly periodical or magazine. No. 147,947; Nov. 8.

Cannon M'f'g. Co., Kannapolis, N. C. Fabric towels. No. 147,948; Nov. 8.

Cantol Wax Company, San Antonio, Tex. Beeswax substitute. No. 147,949; Nov. 8.

Capitol Products Company, Des Moines, Iowa. Prepared stock foods. No. 147,950; Nov. 8.

Carpp, Ruby T., Bangor, Mich. Canned berries and canned fruit. No. 148,243; Nov. 8.

Cartier, Inc., New York, N. Y. Lead-pencils and magazine lead-pencils. No. 147,951; Nov. 8.

Castle Braid Company, New York, N. Y. Braid for crocheting and knitting. No. 147,952; Nov. 8.

Cedar Hill Formulae Company, The, New Britain, Conn. Preparation for cleaning and polishing varnished surfaces. No. 147,953; Nov. 8.

Chamberlain, F. B., Company, East St. Louis, Ill., and St. Louis, Mo. Baking-soda. No. 147,954; Nov. 8.

Chemical Utilities Company, The, Cincinnati, Ohio. Detergent and polishing materials. No. 147,955; Nov. 8.

Chipman Knitting Mills, Easton, Pa. Ladies' hosiery. No. 147,956; Nov. 8.

Cincinnati Chemical Works, Inc., Cincinnati, Ohio. Dyestuffs. No. 147,957; Nov. 8.

Cinderella Heel Corporation, St. Louis, Mo. Liquid shoe-enamel. No. 147,958; Nov. 8.

Ciro Pearls Ltd., London, England. Imitation pearls and reconstructed gems. No. 147,959; Nov. 8.

Cisneros & Co. Inc., New York, N. Y., and Rahway, N. J. Wheat-flour. No. 147,963; Nov. 8.

Citizens Wholesale Supply Co., Columbus, Ohio. Cleanser, sanitary dish-washing compound, soap flakes, &c. No. 147,961; Nov. 8.

City Mills Company, Columbus, Ga. Wheat-flour, and particularly self-rising wheat-flour. No. 147,962; Nov. 8.

Clearwater, H. P., Hallowell, Me. Pharmaceutical preparation for certain purposes. No. 147,963; Nov. 8.

Cleveland & Sandusky Brewing Company, The, Cleveland, Ohio. Maltless beverage. No. 147,964; Nov. 8.

Cleveland Tractor Company, The, Euclid, Ohio. Internal-combustion engines. No. 147,965; Nov. 8.

Cluett, Peabody & Co. Inc., Troy, N. Y. Handkerchiefs. No. 147,966; Nov. 8.

Comparative X-Ray Company, New York, N. Y. Photographic mounts for holding X-ray films and photographic reproductions thereof. No. 147,967; Nov. 8.

Continental Candy Mfg. Co., Brooklyn, N. Y. Chocolates, hard candies, and glaced fruits. No. 147,968; Nov. 8.

Convertex Corporation, The, New York, N. Y. Printed and woven cotton piece fabrics and cotton piece textiles. No. 147,969; Nov. 8.

Coon, Edward W., Philadelphia, Pa. Cheese. No. 147,970; Nov. 8.

Corliss, Macy & Co., Inc., New York, N. Y. Writing-papers. No. 147,971; Nov. 8.

Corn Products Refining Co., New York, N. Y. Starch for manufacturing and laundry purposes. No. 147,972; Nov. 8.

Cosby, W. M., Flour & Grain Co., Birmingham, Ala. Chicken feed. No. 148,326; Nov. 8.

Covert Gear Company, Lockport, N. Y. Transmission-gearings and parts thereof. No. 147,978; Nov. 8.

Crest Net Company Inc., The, New York, N. Y. Hair-nets. No. 147,974; Nov. 8.

Cross & Beardsley, New Haven, Conn. Wall-papers. No. 147,921; Nov. 8.

Crown Corset Company, The, New York, N. Y. Corset-boning. No. 147,975; Nov. 8.
Croxton, Joseph H., Fort Worth, Tex. Cleanser for fabrics, gloves, shoes, &c. No. 147,976; Nov. 8.
Davis, Charles, Paris, France. Face-powder, rouge, massage-cream. No. 147,977; Nov. 8.
Decker, Jacob E., & Sons, Mason City, Iowa. Full-cream cheese. No. 147,978; Nov. 8.
Decker, Jacob E., & Sons, Mason City, Iowa. Oleomargarin. No. 147,979; Nov. 8.
Desert Wonder Soap Company, Long Beach, Calif. Soap. No. 147,980; Nov. 8.
Devonde Laboratories, Houston, Tex. Shoe-dressing. No. 147,981; Nov. 8.
Diamantbewerkers Koperen Stelenfonds "Nieuwe Leveskracht, Amsterdam, Holland. Tools for diamond-cutters. No. 147,982; Nov. 8.
Diamond Metal Weather Strip Co., Columbus, Ohio. Metal weather-stripping. No. 147,983; Nov. 8.
Dicks, David Co., Inc., New York, N. Y. Anilin and other dyestuffs, &c. No. 147,984; Nov. 8.
Dille & McGuire Mfg. Co., Richmond, Ind. Lawn-mowers. Nos. 147,985–91; Nov. 8.
Dixon, Joseph, Crucible Company, Jersey City, N. J. Pencils. No. 147,992; Nov. 8.
Doctor's Essential Foods Co., Orange, N. J. Bread. No. 147,993; Nov. 8.
Donahue Manufacturing Corporation, New Rochelle, N. Y. Children's toys and playthings. No. 147,994; Nov. 8.
Donnelley, Reuben H., Corporation, The, Chicago, Ill. Telephone-directories published semiyearly. No. 148,232; Nov. 8.
Dorris Motor Car Company, St. Louis, Mo. Automobiles. No. 148,327; Nov. 8.
Double Fabric Tire Company, The, Auburn, Ind. Rubber pneumatic tires and tubes and tire accessories. No. 147,996; Nov. 8.
Dover Manufacturing Company, The, Dover, Ohio. Automatic electric sadirons. No. 147,996; Nov. 8.
Dover Manufacturing Company, The, Dover, Ohio. Electric sadirons. No. 147,997; Nov. 8.
Draughon, John F., Nashville, Tenn. Printed books. No. 147,998; Nov. 8.
Dry Oil Products Ltd., London, England, and New York and Trout Creek, N. Y. Medicinal preparation. No. 147,999; Nov. 8.
Durkee-Davis Manufacturing Company, Rockford, Ill. Electric-light fixtures for sewing-machines. No. 148,000; Nov. 8.
Duro Paper Products Co., Chicago, Ill. Boxes and cartons made wholly or in part of paper. No. 148,001; Nov. 8.
Dux Chemical Solutions Company Limited, London, England. Prepared paper and cloth for book-covers. No. 148,002; Nov. 8.
Economic Manufacturing Co., Paterson, N. J. Ribbons, dress goods, and shirtings all in the piece. No. 148,003; Nov. 8.
Ehlick, Eugene, Vestal, N. Y., assignor to Universal Instruments and Metal Company, Inc., Union, N. Y. Safety-pins. No. 148,004; Nov. 8.
Einstein, Samuel M., Attleboro, Mass. Jewelry and precious-metal ware. No. 148,005; Nov. 8.
El Comercio Publishing Corporation, New York, N. Y. Monthly publication. No. 148,006; Nov. 8.
Electric Arc Cutting and Welding Company, Newark, N. J. Electric welding-machines. No. 148,007; Nov. 8.
Electropure Company, The, Chicago, Ill. Milk and butter. No. 148,008; Nov. 8.
Enders Sales Company, New York, N. Y. Safety-razors. No. 148,009; Nov. 8.
Eno, J. C., Limited, London, England. Saline aperient. No. 148,010; Nov. 8.
Equipment Corporation of America, Wilmington, Del., and Chicago, Ill. Construction machinery and equipment. No. 148,011; Nov. 8.
Esmond Mills, The, Esmond, R. I. Cotton bed-blankets. No. 148,012; Nov. 8.
Fairbanks Co., The, New York, N. Y. Certain construction materials. No. 148,013; Nov. 8.
Famous Biscuit Company, Pittsburgh, Pa. Soda crackers and biscuits. No. 148,328; Nov. 8.
Farmer, Thomas M., Watertown, N. Y. Preparation for cleaning, deodorising, and disinfecting. No. 148,014; Nov. 8.
Farwell, John V., Company, Chicago, Ill. Piece goods, blankets, and bedding. No. 148,015; Nov. 8.
Faulkner, Homer W., Mount Vernon, Ill. Candy—namely, suckers. No. 148,016; Nov. 8.
Faultless Caster Co., Evansville, Ind. Casters for furniture and the like. No. 148,018; Nov. 8.
Faultless Rubber Company, The, Ashland, Ohio. Rubber toys. No. 148,017; Nov. 8.
Ferris, Walter, Milwaukee, Wis. Hydraulic transmissions. Nos. 148,019–20; Nov. 8.
Fire-Proof Furniture and Construction Company, New York, N. Y., and Miamisburg, Ohio. Tool and deposit boxes, merchandise-bins. No. 148,021; Nov. 8.
Fischel Paper Company, Albany, N. Y. Certain papers. No. 148,022; Nov. 8.
Fischer, Albert C., Chicago, Ill. Hair-nets, ribbons, handkerchiefs, veils. No. 148,023; Nov. 8.
Fischer, B., & Co., Inc., New York, N. Y. Rice. No. 148,329; Nov. 8.
Fisher, Louis M., Clarksdale, Mo. Belt-dressing compositions. No. 148,024; Nov. 8.
Flexlume Sign Company, Buffalo, N. Y. Electrically-illuminated signs. No. 148,025; Nov. 8.
Flint, Thomas E., Minoa, N. Y. Foot-powder. No. 148,026; Nov. 8.
Foamite Firefoam Company, New York, N. Y. Hand-operated, portable, or stationary fire-extinguishers. No. 148,027; Nov. 8.
Forest Electric Co., Newark, N. J. Electric-current rectifiers. No. 148,028; Nov. 8.
Forstmann & Huffmann Co., Passaic, N. J. Woolen piece goods. No. 148,330; Nov. 8.
Fort Smith Coffee Company, Fort Smith, Ark. Coffee. No. 148,029; Nov. 8.
Foxgate, Chester C., Co., Orlando, Fla. Fresh citrus fruits. No. 148,030; Nov. 8.
Franklin Peanut Company, Franklin, Va. Peanuts in the shell. No. 148,031; Nov. 8.
Frick, Adolph F., San Francisco, Calif. Preparation for dandruff, itching scalp and eczema. No. 148,032; Nov. 8.
Fuld, William, Baltimore, Md. Talking-boards. No. 148,331; Nov. 8.
Gabilla, Henriette, Paris, France. Toilet preparations. No. 148,033; Nov. 8.
Gallatin Valley Milling Company, Seattle, Wash., and Belgrade, Mont. Wheat-flour. Nos. 148,034–42; Nov. 8.
Geary, Henry H., Fostoria, Ohio. Portfolios. No. 148,043; Nov. 8.
General Electric Company, Schenectady, N. Y. Stationary induction apparatus. No. 148,044; Nov. 8.
General Lamp & Motor Company, Inc., New York, N. Y. Arc and incandescent electric lamps. No. 148,045; Nov. 8.
George, Maude S., St. Louis, Mo. Armpit dress-shields and diaper-supporters. No. 148,046; Nov. 8.
Gilbert, M. H., & Co., New York, N. Y. Cotton piece goods. No. 148,047; Nov. 8.
Glasgow Meat Pie Company, Salt Lake City, Utah. Meat pies. No. 148,048; Nov. 8.
Glencairn Mfg. Co., Pawtucket, R. I. Shoe, corset, underwear, and blouse lacings, galloons, &c. No. 148,049; Nov. 8.
Globe Electric Company, Milwaukee, Wis. Electrical apparatus. No. 148,050; Nov. 8.
Globe Grocery Stores, Inc., Brooklyn, N. Y. Soap powder, laundry and toilet soap, silver-polish, &c. No. 148,051; Nov. 8.
Glysson, Willard L., Bristol, Vt. Photographs. No. 148,052; Nov. 8.
Gohsen Corporation, The, Wilmington, Del., and New York, N. Y. Ready-mixed paint for hot surfaces. No. 148,053; Nov. 8.
Gorham Brothers Company, The, Mount Pleasant, Mich. Built-up wood, ply-wood. No. 148,054; Nov. 8.
Goshen Sash and Door Company, Goshen, Ind. Title of a trade pamphlet published monthly. No. 148,055; Nov. 8.
Goudey Gum Co., The, Boston, Mass. Chewing-gum. No. 148,056; Nov. 8.
Graff Furnace Co., The, New York, N. Y. Warm-air coal, wood, gas, and oil furnaces and cooking-ranges. No. 148,057; Nov. 8.
Graham Paper Company, St. Louis, Mo. Fruit-wrapping tissue-paper. No. 148,058; Nov. 8.
Green, William T., Summit, N. J. Soap. No. 148,059; Nov. 8.
Greene, Julia E., Philadelphia, Pa. Rag dolls. No. 148,060; Nov. 8.
Greenfield's, E., Sons, New York and Brooklyn, N. Y. Chocolate candy. No. 148,061; Nov. 8.
Griffin Broom Company, The, Chanute, Kans. Brooms. No. 148,332; Nov. 8.
Haas & Kirkland, Winter Haven, Fla. Trees. No. 148,062; Nov. 8.
Haggvist, Frederick E., Boston, Mass. Photographs. No. 148,063; Nov. 8.
Haines Manufacturing Corporation, Rochester, N. Y. Automobile accessories—namely, metal frames for holding glass in curtains. No. 148,064; Nov. 8.
Hall, Hartwell & Co., Troy, N. Y. Men's and boys' union-suits, undershirts, and underdrawers. No. 148,065; Nov. 8.
Halligan Candy Company, Davenport, Iowa. Chocolate candy. No. 148,066; Nov. 8.
Handley, G. H., Ogdensburg, N. Y. Bread. No. 148,007; Nov. 8.
Hardwick & Magee Company, Philadelphia, Pa. Wilton carpets and rugs. No. 148,333; Nov. 8.
Harlan, O. A., & Co., San Jose, Calif. Dried and canned fruits. No. 148,068; Nov. 8.
Harriet Hubbard Ayer, New York, N. Y. Toilet soap. No. 147,916; Nov. 8.
Harvey Rim and Wheel Company, Buffalo, N. Y. Wheels and demountable rims. No. 148,069; Nov. 8.
Hassam Paving Company, Worcester, Mass. Street-pavements and bituminous paving materials. No. 148,070; Nov. 8.
Hassinger, Egon, Barcelona, Spain. Certain paper and stationery. No. 148,071; Nov. 8.
Hawkins Lumber Company, Boston, Mass. Lumber. No. 148,072; Nov. 8.
Hensel-Mulranen Company, Inc., The, Syracuse, N. Y. Paper-fasteners. No. 148,073; Nov. 8.
Hers, Alexander, New York, N. Y. Merchandise-envelops. No. 148,074; Nov. 8.

Hewitt, Wm. H., Chicago, Ill. Soap. No. 148,075; Nov. 8.
Highland Manufacturing Co., Highland Park, N. J. Transparent cement. No. 148,076; Nov. 8.
Hollingshead, E. M., Co., The, Camden, N. J. Soap. No. 148,078; Nov. 8.
Hollingshead, W. R., Company, Binghamton, N. Y. Washing-tablets. No. 148,077; Nov. 8.
Homac Corporation, Syracuse, N. Y. Italian paste products, such as macaroni. No. 148,079; Nov. 8.
Hopkins, Lee R., Baltimore, Md. Metal-polish. No. 148,080; Nov. 8.
Howard Bros. Chemical Co., Buffalo, N. Y. Soap. No. 148,081; Nov. 8.
Hubbuck, Thos., & Son Limited, London, England. Certain cleaning-powders and soap. No. 148,082; Nov. 8.
Ichter, John H., Tamaqua, Pa. Shaving and healing lotion. No. 148,083; Nov. 8.
Ignition Company of America, New York, N. Y. Spark-plugs. No. 148,084; Nov. 8.
Imperial Brush Company, Inc., New York, N. Y. Tooth-brushes and nail-brushes. No. 148,085; Nov. 8.
India Tire & Rubber Co., Mogadore, Ohio. Rubber cement and rubber gum and gum for repairing cuts in the treads of rubber tires. No. 148,086; Nov. 8.
Indiana Separator Company, The, Indianapolis, Ind. Battery-separators. Nos. 148,087–8; Nov. 8.
International Magazine Company, New York, N. Y. Bi-weekly magazine or pamphlet. No. 148,089; Nov. 8.
International Vegetable Oil Company, The, Atlanta, Ga. Prime summer yellow refined deodorized cotton-seed oil. No. 148,090; Nov. 8.
Iowa Soap Company, Burlington, Iowa. Soap for bath and toilet. No. 148,091; Nov. 8.
Irokese Trading Corporation, New York, N. Y. Rubber, composition, textile, pyroxylin, &c., toys. No. 148,092; Nov. 8.
Ironwarp Silk Mills, Inc., Allentown, Pa. Silks, cotton and crape textiles in the piece. No. 148,093; Nov. 8.
Italian Greek Impt. Co., New York, N. Y. Olive-oil. No. 148,094; Nov. 8.
Isaard Company, The, Seattle, Wash. Canned salmon. No. 148,095; Nov. 8.
Jerseyville Nursery, Dow and Jerseyville, Ill. Fruit-trees. No. 148,096; Nov. 8.
Johansson, Carl E., Eskilstuna, Sweden. Certain precision instruments. No. 148,097; Nov. 8.
Johnston, William T., Chicago, Ill. Electric batteries and parts thereof. No. 148,098; Nov. 8.
Jones, Hattie, St. Louis, Mo. Hair-grower. No. 148,100; Nov. 8.
Josephine Chocolates Limited, London, England. Chocolate. No. 148,101; Nov. 8.
Joslin Mfg. Co., Providence, R. I. Shoe and corset lacing tips. No. 148,102; Nov. 8.
K-M Manufacturing Company, The, Toledo, Ohio. Windshield-cleaners of the blade-wiping type. No. 148,115; Nov. 8.
Kansas City Smelting Co., Kansas City, Mo. Babbitt metal. No. 148,103; Nov. 8.
Kent, F. C., Company, The, Newark, N. J. Certain photograph accessories. Nos. 148,104–5; Nov. 8.
Kepec Company, The, Milwaukee, Wis. Leather-dressings and metal-polishing materials. No. 148,106; Nov. 8.
Kessler, John H., Cleveland, Ohio. Liquid preparation for treatment of certain ailments. No. 148,107; Nov. 8.
Kimball, C. M., Company, Winthrop, Mass. Silver-polish. No. 148,108; Nov. 8.
King & Company, New York, N. Y. Hosiery. No. 148,109; Nov. 8.
King, Ralph C., Columbus, Ga. Preparation for treatment of diseases of the mouth and teeth. No. 148,110; Nov. 8.
Kirsten, Ernest, Oakland, Calif. Canned fruits and vegetables. No. 148,111; Nov. 8.
Kistler Leather Company, Boston, Mass. Leather belting. No. 148,112; Nov. 8.
Klein Chocolate Company, Elizabethtown, Pa. Chocolate. Nos. 148,113–4; Nov. 8.
Kobb, Anthony, New York, N. Y. Hosiery, knit underwear, sweaters. No. 148,116; Nov. 8.
Koellisch & Fortmann, Inc., New York, N. Y. Pickled, dried, salted, smoked, and canned fish. No. 148,117; Nov. 8.
Kromberger, Alfred M., Boston, Mass. Reconstructive, digestive, and nerve tonic. No. 148,118; Nov. 8.
Kundeus, Andrew, Endicott, N. Y. Salve for eczema. No. 148,119; Nov. 8.
Laden, Isaac, New York, N. Y. Cotton piece goods—viz., tickings. No. 148,120; Nov. 8.
Laird Linen Corporation, New York, N. Y. Toweling, towels, crashes, scarfing, tray-cloths. Nos. 148,121–7; Nov. 8.
Lange Soap Co., San Antonio, Tex. Soap. No. 148,128; Nov. 8.
Lap-Is Compound Company, San Francisco, Calif. Cylinder-grinding compound. No. 148,129; Nov. 8.
Lauritsen, Thorwald G., Lynn, Mass. Flavor used in browning any food. No. 148,130; Nov. 8.
Lesher, Whitman & Co., Inc., New York, N. Y. Certain piece goods. Nos. 148,122–3; Nov. 8.
Lesser, Pincus, New York, N. Y. Ladies' shirtwaists. No. 148,134; Nov. 8.
Levi, Isaia, Turin, Italy. Certain articles of stationery. No. 148,135; Nov. 8.
Lewis, A. H., Medicine Company, The, St. Louis, Mo. Medicinal tablets for stomach and liver. No. 148,136; Nov. 8.
Lewis, L. H., Company, Dallas, Tex. Certain jewelry. No. 148,137; Nov. 8.
Lewis, William M., Abingdon, Ill. Floor-brushes. No. 148,334; Nov. 8.
Liberty Oil Company, Limited, New Orleans, La. Gasolene, kerosene, lubricating oils and greases. No. 148,138; Nov. 8.
Lincoln, Edward K., New York, N. Y. Cleaning fluids, black-leather polish, auto-top dressing. No. 148,139; Nov. 8.
Lindsborg Milling & Elevator Co., The, Lindsborg, Kans. Kansas hard-wheat flour. No. 148,140; Nov. 8.
Lithographers Cooperative Association, Washington, D. C. Safety-paper. No. 148,141; Nov. 8.
Littauer, Lucius N., New York, N. Y. Polishing preparation and a certain paint and varnish oil. No. 148,142; Nov. 8.
Livesay, James S., Palo Alto, Calif. Hair-tonic. No. 148,143; Nov. 8.
Lonsdale Company, Providence, R. I. Cotton goods in the piece. No. 148,144; Nov. 8.
Lord and Taylor, New York, N. Y. Men's dress-shirts. No. 148,145; Nov. 8.
Lorette Corset Co., Chicago, Ill. Corsets. No. 148,146; Nov. 8.
Louis, Otto F., Bay City, Mich. Antiseptic mouth-wash for treatment and prevention of pyorrhea. No. 148,147; Nov. 8.
M-Z Pharmacal Co., Brasil, Ind. Medicine used in the treatment of the liver and bowels. No. 148,171; Nov. 8.
McCarthy, Thomas, Poughkeepsie, N. Y. Liver-pills. No. 148,148; Nov. 8.
McCormick, Raleigh, St. Louis, Mo. Tire-protectors and antiskid-chains. No. 148,335; Nov. 8.
McDermott, Martin, Chicago, Ill. Cleansing compound for cleaning and restoring color to oriental rugs, carpets, &c. No. 148,149; Nov. 8.
McGill Manufacturing Co., Valparaiso, Ind. Electric-lamp guards. No. 148,150; Nov. 8.
McKeough, Charles W., Los Angeles, Calif. Vegetable compound for the stomach and liver, kidneys, and blood. No. 148,151; Nov. 8.
McLean, John C., Cleveland, Ohio. Dressing for transmission-band linings. No. 148,152; Nov. 8.
Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. No. 148,153; Nov. 8.
Manhattan Rubber Mfg. Co., Passaic, N. J. Rubber and canvas belts and rubber hose. No. 148,154; Nov. 8.
Manning, Maxwell & Moore Inc., New York, N. Y. Lathes, planers, slotters, boring-mills, &c. No. 148,155; Nov. 8.
Marshall Field & Company, Chicago, Ill. Cotton dress fabrics. No. 148,156; Nov. 8.
Marshall Field & Company, Chicago, Ill. Silk skirt-braid. No. 148,157; Nov. 8.
Marshall-Wells Company, Jersey City, N. J., and Duluth, Minn. Coasting sleds and wagons. No. 148,158; Nov. 8.
Masurier, Jacques E., Paris, France. Toilet waters, perfumes, &c. No. 148,160; Nov. 8.
Marx, D. L., Co., Cairo, Ill. Men's and women's overalls, work pants and shirts. No. 148,159; Nov. 8.
Menominee Motor Truck Co., Clintonville, Wis. Motor-trucks. No. 148,336; Nov. 8.
Metropolitan-Vickers Electrical Company Limited, London, England. Electrical apparatus. No. 148,161; Nov. 8.
Michigan Metal Products Company, Battle Creek, Mich. Door-checks. No. 148,162; Nov. 8.
Migel, J. A., Inc., New York, N. Y. Woolens, broad silks, velvets, &c., all piece goods. No. 148,163; Nov. 8.
Mightybone Corporation of New York, New York, N. Y. Boning, steels, and staying materials for corsets, &c. No. 148,164; Nov. 8.
Miller, Jacob, Sons & Co., Philadelphia, Pa. Certain textile goods in the piece. No. 148,337; Nov. 8.
Miller, W. Stewart, Derby, Conn. Sugar-cane-cutting machinery. No. 148,165; Nov. 8.
Modern Cap Mfg. Company, St. Louis, Mo. Hats and caps. No. 148,166; Nov. 8.
Molnar, Nicholas J., Roselle, N. J. Medicinal preparation for congestion and inflammation. No. 148,167; Nov. 8.
Moran, May B., Kansas City, Mo. Dolls. No. 148,168; Nov. 8.
Multi Electrical Mfg. Company, Chicago, Ill. Certain electrical apparatus. No. 148,169; Nov. 8.
Murphy, John A., Company, The, Springfield, Mass. Papeteries, writing-paper, and mailing-envelops. No. 148,170; Nov. 8.
National Aniline & Chemical Company, Inc., New York, N. Y. Periodical issued monthly. No. 148,172; Nov. 8.
National Blank Book Co., Holyoke, Mass. Loose-leaf and bound blank books and indexes. No. 148,173; Nov. 8.
National Cash Register Company, The, Dayton, Ohio. Periodicals issued weekly or oftener. No. 148,174; Nov. 8.
National Chemical Company, Syracuse, N. Y. Soap. No. 148,175; Nov. 8.
National Thrift Association, Minneapolis, Minn. Certain blank books and forms. No. 148,176; Nov. 8.
Navajo Laboratories, Inc., Casper, Wyo. Liquid spoke-fastener. No. 148,177; Nov. 8.
Navajo Laboratories, Inc., Casper, Wyo. Mechanics' soap. No. 148,178; Nov. 8.

Neuss, Hesslein & Co. Inc., New York, N. Y. Woven cotton piece goods—namely, wide bleached sheetings. No. 148,179; Nov. 8.

Neuss, Hesslein & Co., Inc., New York, N. Y. Woven cotton piece goods—namely, cotton drills. No. 148,180; Nov. 8.

New England Knitting Company, Winsted, Conn. Woven and knitted underwear. No. 148,181; Nov. 8.

New Jersey Zinc Company, The, New York, N. Y. Paint-pigments. No. 148,182; Nov. 8.

New Jersey Zinc Company, The, New York, N. Y. Zinc oxid used in the manufacture of inks. No. 148,183; Nov. 8.

New Jersey Zinc Company, The, New York, N. Y. Certain chemical preparations. No. 148,184; Nov. 8.

New Jersey Zinc Company, The, New York, N. Y. Zinc. No. 148,185; Nov. 8.

New York Merchandise Company, New York, N. Y. Hair-nets. No. 148,186; Nov. 8.

Northern New York Milk Corp'n., Pierrepont Manor, N. Y. Condensed milk. No. 148,187; Nov. 8.

Norton Company, Worcester, Mass. Abrasive products. No. 148,188; Nov. 8.

Nouillet, Frank A., Covington, La. Building-blocks. No. 148,189; Nov. 8.

Oak Chrome & Stone Chrome Leather Co., Massey, Ohio. Sole-leather. No. 148,190; Nov. 8.

Orlando Citrus Growers Association, Orlando, Fla. Fresh citrus fruits—viz., oranges, grapefruit, and tangerines. No. 148,191; Nov. 8.

Osborne, S. E., Greenwood, Miss. Insecticide, germicide, and antiseptic. No. 148,192; Nov. 8.

Ostby Karp & Gustav Veiner-Cassel, New York, N. Y. Fertilizers. No. 148,193; Nov. 8.

Overseas Motor Service Corporation, New York, N. Y. Certain electrical apparatus. No. 148,194; Nov. 8.

Owl Auto Products Company, Inc., New York, N. Y. Automobile accessories. No. 148,195; Nov. 8.

P-A-T-S Manufacturing Company, Lodi, Calif. Mechanically-actuated automobile direction-signals. No. 148,203; Nov. 8.

Pacific Novelty Company, New York, N. Y. Hairpins. No. 148,196; Nov. 8.

Page & Shaw, Inc., Cambridge, Mass. Chocolate cocoa-powder, and cocoa-butter. No. 148,197; Nov. 8.

Palmer Candy Co., Sioux City, Iowa. Assorted hard candy, chocolates, and candy bars. No. 148,198; Nov. 8.

Palmer, I. R., Co., The, Middletown, Conn. Hammocks. No. 148,199; Nov. 8.

Palmolive Co. of Canada, Ltd., The, Toronto, Ontario, Canada. Soap. No. 148,200; Nov. 8.

Patrick, Bennett J., Minneapolis, Minn. Tractors. No. 148,202; Nov. 8.

Patten Manufacturing Company, Chattanooga, Tenn. Rubber patches, tires, and tubes. No. 148,338; Nov. 8.

Patterson, Joseph C., Dayton, Ohio. Aspirin tablets. No. 148,204; Nov. 8.

Paulson, Henry, Chicago, Ill. Reconstructed rubies and sapphires, ring mountings. No. 148,205; Nov. 8.

Paulson, Henry, Chicago, Ill. Watch and clock oils. No. 148,206; Nov. 8.

Pearl Coffee Company, The, Akron, Ohio. Coffee. No. 148,207; Nov. 8.

Pels-Jones, New York, N. Y. Monthly publication. No. 148,208; Nov. 8.

Perfection Biscuit Co., Fort Wayne, Ind. Sandwich-cake with filler of sugar cream, the whole covered with chocolate. No. 148,209; Nov. 8.

Petty, N. A., Company, Inc., Philadelphia, Pa. Cut-outs and pedals for cut-outs and the like. No. 148,339; Nov. 8.

Phenix Cheese Co., New York, N. Y. Milk sugar. No. 148,210; Nov. 8.

Pig & Whistle Company, San Francisco, Calif. Chocolate candy. No. 148,211; Nov. 8.

Pike Manufacturing Company, Pike and Littleton, N. H.; Evansville, Vt.; Orleans, Ind.; Hot Springs, Ark., and New York, N. Y. Razors. No. 148,212; Nov. 8.

Pirika Chocolate Co. Inc., Brooklyn, N. Y. Candy. No. 148,213; Nov. 8.

Pohlmann, Herman G., Chicago, Ill. Writing-paper. No. 148,214; Nov. 8.

Potentia Company, The, Detroit, Mich. Hair-tonic. No. 148,215; Nov. 8.

Primalt Products Company, Chicago, Ill. Near beer and malt tonic. No. 148,216; Nov. 8.

Princess Textile Mills Inc., New York, N. Y. Woolen piece goods. No. 148,217; Nov. 8.

Procter and Gamble Company, The, Cincinnati, Ohio. Edible cocoanut-oil. No. 148,218; Nov. 8.

Providence Braid Company, Inc., Pawtucket, R. I. Shoelaces. No. 148,219; Nov. 8.

Pumpless Blow Torch Company, Pittsburgh, Pa. Blow-torches and gas-heaters. No. 148,220; Nov. 8.

Q. T. Manufacturing Co., New York, N. Y. Preparation for prevention of venereal infections. No. 148,221; Nov. 8.

Quaker Oats Company, The, Chicago, Ill. Wheat-flour and rolled oats. No. 148,222; Nov. 8.

Radiol Laboratories, Cincinnati, Ohio. Ointment for eczema and other itching skin diseases, &c. No. 148,223; Nov. 8.

Raleigh Smokeless Fuel Company, Bertley, W. Va. Bituminous coal. No. 148,224; Nov. 8.

Randall, Maude O., Mrs., Cottonwood, Idaho. Cream salad-dressing. No. 148,225; Nov. 8.

Red Devil Patch Co., The, Hopkinsville, Ky. Sheet-rubber patches for inner tubes and tires for vehicles. No. 148,227; Nov. 8.

Redd, Ernest, Birmingham, Ala. Grain and horse feed. No. 148,226; Nov. 8.

Reed, Burns R., Supply Company, Brooklyn, N. Y. Polishing compositions. No. 148,228; Nov. 8.

Rein, Hebert, & Co., New York, N. Y. Knitted and textile underwear and hosiery. No. 148,229; Nov. 8.

Reisinger, Hugo, New York, N. Y. Electrical-resistance elements. No. 148,230; Nov. 8.

Retail Millinery Association of America, New York, N. Y. Trade publication. No. 148,231; Nov. 8.

Rice & Adams Corporation, Buffalo, N. Y. Certain receptacle and metal-parts washers and milk-bottle fillers, cappers, and pasteurizers. No. 148,223; Nov. 8.

Rice Chocolate Company, Boston, Mass. Candy. No. 148,234; Nov. 8.

Rice, Irving W., New York, N. Y. Hair-nets. No. 148,235; Nov. 8.

Riesener Chocolate Co., San Francisco, Calif. Chocolate candies. No. 148,236; Nov. 8.

Ripon Shirtwaist Company, Ripon, Wis. Ladies' waists. No. 148,237; Nov. 8.

Robertson & Watson, Evanston, Ill. Candy. No. 148,238; Nov. 8.

Robinson, Will B., M. D., Mount Gilead, Ohio. Medicinal preparation. No. 148,239; Nov. 8.

Rockhill & Victor, New York, N. Y. Olive-oil and mixture of olive-oil with other vegetable oils. No. 148,240; Nov. 8.

Rosenfeld, M. C., Company, Boston, Mass. Malt extract used as an ingredient of food. No. 148,241; Nov. 8.

Royce, Antoinette, Brooklyn, N. Y. Solution for chapped hands and feces. No. 148,242; Nov. 8.

Rudco Drug Co., Portland, Oreg. External and internal medicinal preparation. No. 148,244; Nov. 8.

Rueckheim Bros. & Eckstein, Chicago, Ill. Marshmallows, chocolates, fudge, filled candies, &c. No. 148,245; Nov. 8.

Rusk, John, Stillwater, Minn. Phonograph-record-cleaning attachments and the wipers used in connection therewith. No. 148,246; Nov. 8.

Russell Manufacturing Company, Middletown, Conn. Suspenders. No. 148,247; Nov. 8.

Russell Manufacturing Company, The, Middletown, Conn. Halters, surcingles, girths, web harness, and auto, &c., straps. No. 148,248; Nov. 8.

Samuels & Hilder Bros., New York, N. Y. Cloth, bonnet, hat, and hair brushes. No. 148,249; Nov. 8.

San Antonio Drug Co., San Antonio, Tex. Pharmaceutical preparations. No. 148,250; Nov. 8.

Sanitary Novelty Company, Indianapolis, Ind. Butter-mixers, &c. No. 148,251; Nov. 8.

Sarspas, Frank, Kincaid, Ill. Medicine for relieving influenza, pneumonia, &c. No. 148,252; Nov. 8.

Sawyer Boot & Shoe Co., Bangor, Me. Moccasins. No. 148,253; Nov. 8.

Schaechterle, Henry, Friend, Nebr. Collapsible rims. No. 148,340; Nov. 8.

Schneider, Frank, New York, N. Y. Wedding and evening dresses. No. 148,254; Nov. 8.

Schoenfeld, Nathan, New York, N. Y. Combined packing and display receptacles for neckties. No. 148,255; Nov. 8.

Schwinger, Mae H., San Fernando, Calif. Honey, preserved orange, orange marmalade, jelly, and jam. No. 148,256. Nov. 8.

Scott's Preparations, Inc., New York, N. Y. Toilet preparation to reduce superfluous flesh. No. 148,257; Nov. 8.

Shapiro, Leo, Company, Minneapolis, Minn. Antiseptic, prophylactic tablets. No. 148,131; Nov. 8.

Sheldon, Albert K., Company, Boston, Mass. Paints, paint-oils, varnishes, colors. No. 148,258; Nov. 8.

Shivers, Emanuel V., Baltimore, Md. Shoe-repairs. No. 148,259; Nov. 8.

Shoe Retailer Company, The, Boston, Mass. Periodical published weekly. No. 148,260; Nov. 8.

Simmons Daniel D., Minot, N. D. Field-seeds. No. 148,261; Nov. 8.

Simplo Fullfeder, Gesellschaft Voss, Lausen & Dziambor, Hamburg, Germany. Fountain-pens. No. 148,262; Nov. 8.

Simon, Guy D., Company, Los Angeles, Calif. Dresses. No. 148,263; Nov. 8.

Smith, Charles H., Malden, Mass. Knockdown clothes-hangers, waste-baskets, and trays for holding toilet articles. No. 148,274; Nov. 8.

Smith, James E., Philadelphia, Pa. Plastic rubber material for repairing tires, hose, &c. No. 148,264; Nov. 8.

Societe Anonyme Parfumerie Ramses, Paris, France. Toilet, perfumed toilet, and household soaps. No. 148,265; Nov. 8.

Societe Commerciale Peninsulaire Gillard & Adams, Seville, Spain. Olive-oil. No. 148,266; Nov. 8.

Spence, William E., New York, N. Y. Laundry blue. No. 148,267; Nov. 8.

Spire Spark Plug Co., Anderson, Ind. Spark-plugs. No. 148,268; Nov. 8.

Standard Tar Products Co., Milwaukee, Wis. Wood-preservatives and fly-sprays. No. 148,269; Nov. 8.

Stanley Works, The, New Britain, Conn. Certain precision-tools for mechanics. No. 148,270; Nov. 8.

Stevens & Company, Inc., Providence, R. I. Ophthalmic mountings and parts thereof. No. 148,271; Nov. 8.

Straus, Royer & Strass, Inc., Baltimore, Md. Ladies' and children's blouses, dresses, skirts, suits, and bloomers. No. 148,272; Nov. 8.

Stroberger and Lee, Creighton, Nebr. Engine-cylinder dressers. No. 148,273; Nov. 8.

Sugar Products Co., New York, N. Y. Molasses. No. 148,275; Nov. 8.

Suhr, Charles A., West Hoboken, N. J. Reconstructive and strengthening tonic. No. 148,276; Nov. 8.

Sweet, Ambrose S., Elmira, N. C. Cooling, soothing, antiseptic preparation for external use. No. 148,277; Nov. 8.

Swift and Company, Chicago, Ill. Toilet soaps. No. 148,278; Nov. 8.

Tanski, Maryan, Syracuse, N. Y. Foot-powder. No. 148,279; Nov. 8.

Taylor, Clapp & Beall, New York, N. Y. Cotton piece goods. No. 148,341; Nov. 8.

Teitelbaum, David, New York, N. Y. Hair-nets. No. 148,280; Nov. 8.

Tenter Corn & Fruit Products Co., St. Louis, Mo. Mince-pie filling, jam, fruit jelly, &c. No. 148,281; Nov. 8.

Thomas-Body Company, San Francisco, Calif. Canned fruits and vegetables. No. 148,282; Nov. 8.

Tucker, Hal W., San Antonio, Tex. Coffee. No. 148,284; Nov. 8.

Twill Manufacturing Co., Prescott, Iowa. Powder for the feet and armpits. No. 148,285; Nov. 8.

U. S. Industrial Alcohol Co., New York, N. Y. Composition containing alcohol for bathing, massage, and other external uses. Nos. 148,287-8; Nov. 8.

United Cereal Mills, Ltd., Quincy, Ill. Cereal breakfast foods—particularly corn flakes. No. 148,286; Nov. 8.

Universal Instruments and Metal Company. (See Ehlick, Eugene, assignor.)

Van Winkle, John H., East Orange, N. J. Teas, coffees, food-flavoring extracts, spices. No. 148,290; Nov. 8.

Vander Zanden, J., Green Bay, Wis. Jewelry and precious-metal ware. No. 148,289; Nov. 8.

Vibroplex Company, Inc., The, New York, N. Y. Telegraphic sending-machines. No. 148,291; Nov. 8.

Victor Shoe Machinery Company, Lynn, Mass. Shoe-thread. No. 148,292; Nov. 8.

Victorius, A. V., & Company, Inc., New York, N. Y. Hosiery. No. 148,293; Nov. 8.

Victory Oil Burner Company, Houston, Tex. Crude-oil burners. No. 148,294; Nov. 8.

Vincennes Candy Co., Inc., Vincennes, Ind. Chocolate creams. No. 148,295; Nov. 8.

Virginia Trunk and Bag Co., Petersburg, Va. Trunks and traveling-bags. No. 148,296; Nov. 8.

Vitek, Charles, Chicago, Ill. Hose-clamps. No. 148,297; Nov. 8.

Volta Battery Company, Indianapolis and Martinsville, Ind. Battery-boxes, switch-boards, and generators. No. 148,298; Nov. 8.

Wabash Baking Powder Company, Wabash, Ind. Coffee and tea. No. 148,299; Nov. 8.

Waltham Bag & Paper Company, Waltham, Mass. Paper bags and boxes. No. 148,300; Nov. 8.

Walden & Co., Prague, Bohemia, assignor to Walden & Co., Inc. Certain notions, such as garment-fasteners, needles, pins. No. 148,304; Nov. 8.

Wander Company, The, Chicago, Ill. Crystalline malt extract. No. 148,301; Nov. 8.

Washburn-Crosby Company, Minneapolis, Minn. Wheat-flour. No. 148,320; Nov. 8.

Warren, S. D., Company, Boston, Mass. Printing-paper. No. 148,306; Nov. 8.

Watts, Ritter & Company, Huntington, W. Va., and New York, N. Y. Hosiery. No. 148,303; Nov. 8.

Waxide Paper Co., Kansas City, Mo. Wax-paper. No. 148,306; Nov. 8.

Webster, Fred., Paper Company, Holyoke, Mass. Writing and typewriting paper. No. 148,307; Nov. 8.

Weisberg, Hyman, New York, N. Y. Yarns. No. 148,308; Nov. 8.

Western Aluminum Manufacturing Company, Emeryville, Calif. Cast, pressed, and spun aluminum cooking utensils. No. 148,309; Nov. 8.

Western Bottle Manufacturing Company, Chicago, Ill. Toothbrushes. No. 148,342; Nov. 8.

Wheeling Corrugating Company, Wheeling, W. Va. Sheet-metal culverts, well-casings, flood-gates, and lead gas connections. No. 148,310; Nov. 8.

Whitcher, Frank W., Company, Portland, Me., and Boston, Mass. Fabricated insoling. No. 148,311; Nov. 8.

White Eagle Brewing Company, The, Chicago, Ill. Near beer. No. 148,312; Nov. 8.

Williams, John J., Brooklyn, N. Y. Corn remedy. No. 148,313; Nov. 8.

Winchester Repeating Arms Co., New Haven, Conn. Hatchets. No. 148,314; Nov. 8.

Winox, Limited, Richmond, England. Medicated wine for use as a general tonic. No. 148,315; Nov. 8.

Wippel, Elsie C., Cincinnati, Ohio. Certain toilet preparations. No. 148,316; Nov. 8.

Wittman, Joseph, New York, N. Y. Woven rugs. No. 148,317; Nov. 8.

Wohlfarth & Koos Co., Inc., Newark, N. J. Furniture and house-furnishing goods, &c. No. 148,318; Nov. 8.

Wood Shovel & Tool Company, The, Piqua, Ohio. Shovels, spades, scoops, and drainage-tools. No. 148,330; Nov. 8.

Woods & Chatellier Inc., New York, N. Y. Certain pocket-flasks. No. 148,319; Nov. 8.

Young, Chas. W., & Co., Philadelphia, Pa. Compound for rendering leather soft, flexible, and pliable. No. 148,321; Nov. 8.

Zim Products Co., New York and Brooklyn, N. Y. Pastes, including library, office, and factory paste, mucilage, and glue. No. 148,322; Nov. 8.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Allen A Company, The, Kenosha, Wis. "Allen A Spring Needle Underwear." (For Underwear.) No. 23,615; Nov. 8.

Allen A Company, The, Kenosha, Wis. "Allen A Summerwear." (For Underwear.) No. 23,616; Nov. 8.

Allen A Company, The, Kenosha, Wis. "Allen A Hosiery." (For Hosiery.) No. 23,617; Nov. 8.

Beechman, S., & Sons Inc., New York, N. Y. "No-Wet." (For Baby-Pants.) No. 23,618; Nov. 8.

Brockett, Arthur A., Little Falls, N. Y. "Black and White Hoof-Rot Remedy." (For Hoof-Rot Remedy, Fly-Repellent, and Healing Oil for External Use on Cattle and Sheep.) No. 23,619; Nov. 8.

Fuente, A., & Company, Tampa, Fla. "Garcia Bouquet." (For Cigars.) No. 23,620; Nov. 8.)

D'Orlando Co., Boston, Mass. "The Prize." (For Chocolates.) No. 23,621; Nov. 8.

Hamersley Manufacturing Company, The, Garfield, N. J. "Butter Bread Bayer's Bakery." (For Bread.) No. 23,622; Nov. 8.

Howard, Percy H., Cambridge, Mass. "Shardene." (For Cake-Testing Straws.) No. 23,623; Nov. 8.

Independent Breweries Company, The, St. Louis, Mo. "I. B. Co." (For Root-Beer.) No. 23,624; Nov. 8.

Inderrieden Canning Co., Chicago, Ill. "Red Cedar." (For Canned Peas.) No. 23,625; Nov. 8.

Inderrieden Canning Co., Chicago, Ill. "Old Abe." (For Canned Peas.) No. 23,626; Nov. 8.

Inderrieden Canning Co., Chicago, Ill. "King Fisher." (For Canned Peas.) No. 23,627; Nov. 8.

Inderrieden Canning Co., Chicago, Ill. "Jockey Club." (For Canned Peas.) No. 23,628; Nov. 8.

Inderrieden Canning Co., Chicago, Ill. "Angler." (For Canned Peas.) No. 23,629; Nov. 8.

Jevne, H. Co., Los Angeles, Calif. "Ensemble." (For Chocolates.) No. 23,630; Nov. 8.

Kantor, Max Ethu, New York, N. Y. "Rusalka 'Queen of the Seas'." (For Hair-Net Envelops.) No. 23,631; Nov. 8.

Krank, Alfred J., St. Paul, Minn. "Kranks Natural Face Powder." (For Boxes Containing a Face-Powder.) No. 23,632; Nov. 8.

Lamb Fruit Company, The, Milton, Oreg. "Lamb." (For Prunes.) No. 23,633; Nov. 8.

La Minar Cigar Co. Inc., Hammond, Ind. "La Minar." (For Cigars.) No. 23,634; Nov. 8.

Lederer, Herbert B., Co. Inc., New York, N. Y. "Fluffytulle." (For Mallines, Tulles, and Nettings in the Piece.) No. 23,635; Nov. 8.

Loft, Inc., New York, N. Y. "Old Dutch Chocolates." (For Candies.) No. 23,636; Nov. 8.

Loft, Inc., New York, N. Y. "Italian Creams." (For Candies.) No. 23,637; Nov. 8.

MacArthur, Charles J., Glen Ridge, N. Y. "Unit Inks." (For Inks for Printers and Lithographers.) No. 23,638; Nov. 8.

Menke, Wilber J., Terre Haute, Ind. "Old Faithful." (For Coffee.) No. 23,639; Nov. 8.

Needham Products Co., The, Cleveland, Ohio. "Needham's Hay Fever Spray." (For Sprays for the Relief of Hay-Fever.) No. 23,640; Nov. 8.

Purity Malt Extract Co., Chicago, Ill. "Purity Brand Bohemian Malt Extract." (For Extracts for Food and Beverage Purposes.) No. 23,641; Nov. 8.

Purity Malt Extract Co., Chicago, Ill. "Purity Brand Beverage Coloring." (For Extracts for Coloring Beverage.) No. 23,642; Nov. 8.

Purity Malt Extract Co., Chicago, Ill. "Purity Brand Imported Bohemian Hops." (For Hops.) No. 23,643; Nov. 8.

Purity Malt Extract Co., Chicago, Ill. "Purity Brand Root Beer Extract." (For Extracts for Beverage Purposes.) No. 23,644; Nov. 8.

Purity Malt Extract Co., Chicago, Ill. "Purity Brand Domestic Malt Extract Light." (For Extracts for Food and Beverage Purposes.) No. 23,645; Nov. 8.

Samstag & Hilder Bros., New York, N. Y. "The Royal Lady." (For Hair-Nets.) No. 23,646; Nov. 8.

Schultz, A. J., Los Angeles, Calif. "Enterprise." (For Honey.) No. 23,647; Nov. 8.

Staggs, Homa A., Henrietta, Tex. "Over the Desert Sands." (For Packages of Cigarettes and Tobacco.) No. 23,648; Nov. 8.

Sterling Pin Co., The, Derby, Conn. "Flower Design." (For Hairpin-Boxes.) No. 23,649; Nov. 8.

Stern, Joseph, & Sons, Inc., New York, N. Y. "Swanee Bacon." (For Packaged Bacon.) No. 23,650; Nov. 8.

Welch Grape Juice Company, The, Westfield, N. Y. "Welchade." (For Concentrated Grape.) No. 23,651; Nov. 8.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

De Rigne, Chas. A., Los Angeles, Calif. "The De Rigne Pneumatic Pump." (For Advertising Purposes for Tire-Pumps.) No. 5,829; Nov. 8.

Thomson, John H., Omaha, Nebr. "Nesmoht Obstetrical Table." (For Advertising Purposes for Obstetrical Tables.) No. 5,830; Nov. 8.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Adams & Hileman, Whitefish, Mont. Salve for piles, catarrh, eczema, &c. No. 150,719; Nov. 8.

Ainsworth, Harry G., Kentland, Ind. Machinery for controlling the operation of doors. No. 149,166; Nov. 8.

Amco Sales Corporation, Chicago, Ill. Metallic tanks. No. 139,601; Nov. 8.

American Fruit Growers of Palestine, Inc., Boston, Mass. Oranges and lemons. No. 147,942½; Nov. 8.

Antonopulos, John D., New York, N. Y. Olive-oil, candies, figs, and fresh and dried and canned oranges, pears, and apples. No. 119,326; Nov. 8.

Arlo Box Company, Oak, Fla. Boxes and packing-cases. No. 149,535; Nov. 8.

Arthur, William H., Stamford, Conn. Laxatives. No. 149,258; Nov. 8.

Automotive Supply Manufacturing Company, Dallas, Tex. Paints and enamel dissolving and disintegrating preparations. No. 151,776; Nov. 8.

Ava-Lon Laboratories Company, Inc. (See Avallone, Pasquale, assignor.)

Avallone, Pasquale, Somerville, Mass., assignor to Ava-Lon Laboratories Company Inc., Somerville, Mass. Medicinal preparations. No. 148,199; Nov. 8.

Bajanova, Elisaveta, New York, N. Y. Face-cream. No. 147,545; Nov. 8.

Baker, O. D., Company, Boston, Mass., and New York, N. Y. Mattresses, bed-springs, pillows. No. 146,064; Nov. 8.

Balish, Benjamin, Brooklyn, N. Y. Fresh onions, potatoes, carrots, and apples. No. 150,055; Nov. 8.

Baynton Mills, Philadelphia, Pa. Sweaters, sweater-coats. No. 143,152; Nov. 8.

Bennett and Aspden Company, Philadelphia, Pa. Velvets in the piece. No. 141,761; Nov. 8.

Berriman, Charles S., New York, N. Y. Periodical published monthly. No. 152,306; Nov. 8.

Bill, William C., Hartford, Conn. Men's and boys' hats. No. 147,337; Nov. 8.

Billingsley, Mattie D., San Antonio, Tex. Toilet preparations. No. 141,940; Nov. 8.

Birkenfeld, Strauss & Co., New York, N. Y. Aprons, bungalow-aprons, and house-dresses. No. 145,310; Nov. 8.

Black, Arthur, Toledo, Ohio. Dolls. No. 152,669; Nov. 8.

Borkowski, Wladyslaw, Brooklyn, N. Y. Compound for relieving fever. No. 150,500; Nov. 8.

Boston Pressed Metal Company, Worcester, Mass. Last-thimbles. No. 150,263; Nov. 8.

Brandington Photo System, Inc., Chicago, Ill. Gummed photographs for advertising purposes. No. 151,077; Nov. 8.

Briggs & Stratton Company, Milwaukee, Wis. Monthly magazines. No. 137,559; Nov. 8.

Brown Company, Portland, Me., and Berlin, N. H. Icings, coatings, frostings. No. 151,029; Nov. 8.

Brown, Henry S., Seattle, Wash. Mayonnaise salad-dressing, Thousand Island dressing. No. 147,398; Nov. 8.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Brown Shoe Company, Inc., St. Louis, Mo. Boys' shoes of leather. No. 148,118; Nov. 8.

Bruck, Sam, Inc., New York, N. Y. Edible vegetable oils. No. 142,825; Nov. 8.

Brust, Albert, Jr., Scranton, Pa. Eggs and live chickens. No. 142,878; Nov. 8.

Byrnes, Eugene, New York, N. Y. Boys' fabric and leather shoes. No. 144,126; Nov. 8.

California Cotton Mills Company, Oakland, Calif. Cotton mops. No. 150,659; Nov. 8.

California Packing Corporation, San Francisco, Calif. Dried fruits, raisins, and seedless raisins. No. 137,725; Nov. 8.

Carter Dry Goods Co., Louisville, Ky. Sheeting, sheets, and pillow-cases. No. 152,739; Nov. 8.

Carter, George B., Company, The, Connersville, Ind. Molding for upholstering. No. 146,793; Nov. 8.

Centennial Mill Company, Seattle and Spokane, Wash. Wheat-flour. No. 150,561; Nov. 8.

Chase Chemical Company, Danville, Ill. Preparations for excessive perspiration. No. 150,221; Nov. 8.

Clinton & Camaron, South Boston, Mass. Compound for sealing punctures and slow leaks in pneumatic tires. No. 150,781; Nov. 8.

Cohn-Goodman Company, The, Cleveland, Ohio. Ladies' and misses' coats, suits, and dresses. No. 147,952; Nov. 8.

Colby Milling Company, Colby, Kans. Wheat and Graham flour and cornmeal. No. 147,091; Nov. 8.

Cole, C. C., Atlanta, Ga. Skin-cream for eczema, freckles, tan, &c. No. 149,443; Nov. 8.

Cole-Grames-Enderlin Company, Los Angeles, Calif. Child's romper. No. 146,877; Nov. 8.

Columbia Graphophone Manufacturing Company, New York, N. Y. Brushes for phonograph-records. No. 152,540; Nov. 8.

Columbian Bax Co., Amsterdam, N. Y. Liquid for treatment of freckles, eczema, perspiration of the feet, &c. No. 150,187; Nov. 8.

Commercial Newspaper Company, New York, N. Y. Page or department in a daily periodical publication. No. 147,951; Nov. 8.

Conley Foil Company, The, New York, N. Y. Decoration of shredded tin-foil for Christmas trees. No. 150,510; Nov. 8.

Conwell, Lee R., New York, N. Y. Hair-straightener. No. 151,207; Nov. 8.

Corcoran, Harry, Chicago, Ill. Liquid malt extract. No. 150,851; Nov. 8.

Corset Supply House, The, New York, N. Y. Brassières and diaphragm-supporters. No. 141,967; Nov. 8.

Crown Remedy Company, Dallas, Tex. Medicine for catarrhal conditions. No. 150,515; Nov. 8.

Crown Remedy Company, Dallas, Tex. Stomach remedy. No. 150,516; Nov. 8.

Crown Remedy Company, Dallas, Tex. Antiseptic lotion. No. 150,517; Nov. 8.

Crown Remedy Company, Dallas, Tex. Healing-ointment. No. 150,518; Nov. 8.

Crusen-Allegretti Co., Chicago, Ill. Candies. No. 150,184; Nov. 8.

Darvas, Helena, Chicago, Ill. Eye medicine. No. 151,209; Nov. 8.

Dash, Allan J., Company Inc., Rochester, N. Y. Medicine for nervous prostration and exhaustion, anemia, &c. No. 150,226; Nov. 8.

Davis, Samuel P., Little Rock, Ark. Cattle and stock feed. Nos. 149,949–50; Nov. 8.

Davis, Samuel P., Little Rock, Ark. Cattle and stock feed. No. 149,952; Nov. 8.

De Forest Radio Telephone and Telegraph Company, New York, N. Y. Motion-picture films, cameras, projecting and talking-moving-picture machines. Nos. 148,130–31; Nov. 8.

De Pinna A., Co. Inc., New York, N. Y. Wearing-apparel of all descriptions. No. 141,418; Nov. 8.

De St. Cyr, William H., Chicago, Ill. Medicated shampoo, cold-cream, dandruff-ointment. No. 142,609; Nov. 8.

De St. Cyr, William H., Chicago, Ill. Crude-oil compound for the treatment of scalps and analogous uses. No. 145,900; Nov. 8.

Del Castillo, Rafael, & Co., New York, N. Y. Cotton piece goods. No. 130,980; Nov. 8.

Delco Hosiery & Underwear Co. Inc., New York, N. Y. Hosiery and knitted underwear. No. 147,520½; Nov. 8.

Denver Alfalfa Milling & Products Co., The, Lamar, Colo. Alfalfa-meal. No. 149,799; Nov. 8.

Dervin, Patrick J., New York, N. Y. Medicinal preparation for skin diseases, open sores, rheumatism, and stiff joints. No. 146,957; Nov. 8.

Dettra, John C., Oaks, Pa. Hedge-trimmers. No. 150,734; Nov. 8.

Durar, Harold C., Plainfield, N. J. Antiseptic ointment. No. 150,855; Nov. 8.

Eastman Kodak Company, Rochester, N. Y. Monthly magazine. No. 152,606; Nov. 8.

Efficiency Electric Corporation, New York, N. Y. Electrical phonograph-motors. No. 137,029; Nov. 8.

Electric Smelting & Aluminum Co. Inc., The, Lockport, N. Y. Soluble chemical compounds used as detergents. No. 152,165; Nov. 8.

Electric Smelting & Aluminum Co. Inc., The, Lockport, N. Y. Soluble chemical compounds for use as detergents. No. 152,319; Nov. 8.

Ely & Walker Dry Goods Company, St. Louis, Mo. Sheets and pillow-cases. No. 150,141; Nov. 8.

Ely & Walker Dry Goods Company, St. Louis, Mo. Sheets and pillow-cases. No. 152,121; Nov. 8.

Escofet y Haag, Rafael, Tarragona, Spain. Unfermented grape-juice, &c. No. 153,082; Nov. 8.

Espiem Company, The, New York, N. Y. Powder-puffs. No. 151,618; Nov. 8.

Essex Press, Inc., The, Newark, N. J. Books, booklets, catalogues, printed and engraved matter, &c. No. 153,153; Nov. 8.

Fabricated Steel Products Corporation, New York, N. Y., and Leetonia, Ohio. Receptacles, particularly classed as tanks. No. 147,504; Nov. 8.

Farrell, Joseph, New Rochelle, N. Y. Massage-cream for the ankles. No. 148,652; Nov. 8.

Federal Mill & Elevator Co. Inc., Lockport, N. Y. Wheat-flour. No. 150,230; Nov. 8.

Finkel, Sarah, New York, N. Y. Medical preparation for skin diseases. No. 144,567; Nov. 8.

Fisher, Guyton, Jr., Macon, Ga. Medicinal preparation in tablet form for headache, rheumatism, and pain. No. 150,193; Nov. 8.

Fletcher Oil Company, Boise, Idaho. Petroleum products—namely, lubricating oils and greases, gasolene. No. 151,872; Nov. 8.

Fluegelman, N., & Co., Inc., New York, N. Y. Cotton and silk mixture piece goods. No. 146,170; Nov. 8.

Fox River Butter Co. Inc., The, New York, N. Y. Creamery-butter. No. 150,604; Nov. 8.

Frank, Isadore, New York, N. Y. Men's and boys' suits, trousers, top-coats, raincoats, &c. No. 147,158; Nov. 8.

Freter, John C., Bridgeport, Ohio. Medicine for treatment of rheumatism and blood diseases. No. 148,726; Nov. 8.

Ft. Myers Truckers Assn., Fort Myers, Fla. Fresh peppers, egg-plants, cucumbers, tomatoes, and beans. No. 149,967; Nov. 8.

Galgo Company, Inc., Norfolk, Va. Medicine for gallstone and bladder. No. 129,458; Nov. 8.

Gates, Robert J., New York, N. Y. Medicine for catarrh, earache, gout, &c. No. 150,858; Nov. 8.

Getchell, Dennis F., Limestone, Me. Fresh potatoes for table and seed purposes. No. 143,813; Nov. 8.

Goldman, Sigmund L., Chicago, Ill. Malt and fruit extracts and syrups. No. 139,033; Nov. 8.

Grady Mfg. Co., The, Long Island City, N. Y. Tile and porcelain cleanser. No. 152,011; Nov. 8.

Grale Packing Company, The, Roselle, N. J. Laxative food. No. 136,839; Nov. 8.

Gram, Barnett L., St. Louis, Mo. Men's, boys', and children's hats and caps. No. 147,776; Nov. 8.

Grenoville, Marie M. Richard Vve, Asnieres, France. Perfumes, toilet waters, brilliantine. No. 150,647; Nov. 8.

Grove, Neamathla, Merritt Island, Fla. Fresh citrus fruits. Nos. 148,396–8; Nov. 8.

Gulf Coast Produce Exchange, Mobile, Ala. Fresh cabbage, beans, potatoes, watermelons, &c. No. 159,546; Nov. 8.

Hannibal Pharmacal Co., St. Louis, Mo. Toilet articles—namely, depilatories and antiperspirants. No. 150,314; Nov. 8.

Hijos de Ybarra, Seville, Spain. Olive-oil. No. 128,004; Nov. 8.

Hoerr-Adam Shoe Company, Belleville, Ill. Leather shoes. No. 147,783; Nov. 8.

Howard & Sons Limited, Ilford, near London, England. Preparation for starting internal-combustion engines. No. 149,548; Nov. 8.

Hrejsa, Joseph F., Chicago, Ill. Ulcer medicine for sores, ulcers, bites, &c. No. 143,438; Nov. 8.

Hutmacher Braiding Company, The, Paterson, N. J. Shoe-laces. Nos. 153,455–6; Nov. 8.

Indian Packing Corporation, Green Bay, Wis. Canned food. No. 150,090; Nov. 8.

Instant Extract Company, Monessen, Pa. Non-alcoholic, maltless flavoring extracts for birch-beer, &c. No. 140,182; Nov. 8.

International Harvester Company, Chicago, Ill. Grain and tractor binders, mowers, rakes, &c. Nos. 149,807–8; Nov. 8.

Isaacs, Edward J., New York, N. Y. Knitted hosiery, underwear, and petticoats for women. No. 145,215; Nov. 8.

Jerseyville Nursery, Jerseyville, Ill. Apples. No. 132,050; Nov. 8.

Johnson, Clarence P., Sheldon, Ill. Non-alcoholic, maltless beverage. No. 150,015; Nov. 8.

Johnson, Rufus, Lakewood, N. J. Medicines for eczema, ringworm, rheumatism, &c. No. 150,360; Nov. 8.

Jungewaelter, Frank, St. Louis, Mo. Potato rye bread. No. 128,094; Nov. 8.

Jungewaelter, Frank, St. Louis, Mo. Bread. No. 128,095; Nov. 8.

Kalish Pharmacy, New York, N. Y. Toilet preparations—namely, nail polishes and cleaners. No. 150,150; Nov. 8.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Keen Kola Manufacturing Company, Dallas, Tex. Non-alcoholic, maltless beverage and syrups for making same. No. 152,506; Nov. 8.

Kelly, John H., Bellingham, Wash. Liquid mixture for cleaning glass, &c. No. 149,756; Nov. 8.

Kensington Bulletin, The, Philadelphia, Pa. Weekly publication. No. 153,145; Nov. 8.

Kingwell Bros., San Francisco, Calif. Bronze castings for machinery-bushings and commercial castings of bronze and brass, &c. No. 144,090; Nov. 8.

Kitchen Products Co., Brooklyn, N. Y. Stove-polish. No. 152,508; Nov. 8.

Klinker Manufacturing Co., Cleveland, Ohio. Cold-cream, tar shampoo, bay-rum, toilet water, and perfumes, &c. No. 143,320; Nov. 8.

Koehring Company, Milwaukee, Wis. Concrete-mixers and distributing-machines, loading-skips, locomotive-cranes, &c. No. 149,189; Nov. 8.

Laboratoire, Nativelle, Paris, France. Medicines for heart affections. No. 149,509; Nov. 8.

Lammertz, Leo, Aix-la-Chapelle, Germany. Sewing and embroidering machine needles. No. 145,844; Nov. 8.

Lee Broom & Duster Company, Lincoln, Nebr. Brooms. No. 152,209; Nov. 8.

Lima Photo-Engraving Co., Lima, Ohio. Pamphlets, leaflets, and circulars devoted to photo-engraving subjects. No. 148,942; Nov. 8.

Liquasprin Company, Brooklyn, N. Y. Preparation for headache, neuralgia, sciatica, earache, &c. No. 151,679; Nov. 8.

Lockwood, Harry M., Redondo Beach, Calif. Canned fruits. No. 148,496; Nov. 8.

Lonsdale Company, Providence, R. I. Cotton goods in the piece. No. 150,197; Nov. 8.

Los Angeles Soap Co., Los Angeles, Calif. Toilet soap. No. 152,259; Nov. 8.

Los Angeles Soap Co., Los Angeles, Calif. Laundry soap. No. 152,265; Nov. 8.

Los Angeles Soap Co., Los Angeles, Calif. Washing-powder. No. 152,266; Nov. 8.

Lucati, Alfred, New York, N. Y. Liquid for cleaning floors. No. 152,334; Nov. 8.

Lucati, Alfred, New York, N. Y. Clothes-washing liquid. No. 152,336; Nov. 8.

Luzzi, August F., Houston, Tex. Pyorrhea-cream and tooth-paste. No. 131,909; Nov. 8.

Maclachlan-Fowler Baking Co., Hibbing, Minn. Bread. No. 150,627; Nov. 8.

Mason, F. E., & Sons, Batavia, N. Y. Seals completely printed and ready to be used on packages. No. 143,937; Nov. 8.

Massasoit Manufacturing Company, Fall River, Mass. Wiping, polishing, and cleaning cloths. No. 152,134; Nov. 8.

Maw, S., Son and Sons Limited, London, England. Teats for feeding-botttles, baby-soothers, and teething-rings. No. 152,084; Nov. 8.

McCarthy, George L., New York, N. Y. Playing-cards. No. 152,473; Nov. 8.

McCracklin, Ellis Y., El Paso, Tex. General tonic. No. 140,344; Nov. 8.

McDaniel Drug Company, Louisville, Ky. Non-alcoholic, non-cereal maltless syrups and flavorings for soft drinks, &c. No. 123,213; Nov. 8.

Merck & Co., New York, N. Y. Hexamethylenamin in powder and tablet form. No. 139,217; Nov. 8.

Mightybone Corporation of New York, Detroit, Mich. Boning, steels, and staying materials. No. 150,245; Nov. 8.

Miller, Jacob, Sons & Co., Philadelphia, Pa. Pongee. No. 127,306; Nov. 8.

Miller, Samuel, & Co., New York, N. Y. Hats and caps for men and children. Nos. 139,543–4; Nov. 8.

Mitchell-Bissell Company, New York, N. Y. Thread-guides for textile machinery. No. 153,513; Nov. 8.

Monroe Calculating Machine Company, New York, N. Y. Inter-office organ and advertising magazine. No. 150,819; Nov. 8.

Monroe, Frank A., Jamestown, N. Y. Sterilised medicated fiber for toothache and earache. No. 151,881; Nov. 8.

Morrison Ricker Mfg. Co., Grinnell, Iowa. Gloves made of leather. No. 147,447; Nov. 8.

Moseley, George V., San Antonio, Tex. Non-alcoholic, maltless beverage. No. 149,971; Nov. 8.

Motekewecs, Cecilia, New York, N. Y. Malt extracts. No. 150,281; Nov. 8.

Motta, Clara L., Modesto, Calif. One-piece women's textile-fabric undergarments. No. 146,884; Nov. 8.

Mullis, Charles Manufacturing Company, The, Greensburg, Ind. Ornamental and ornamented pottery. No. 131,726; Nov. 8.

Murphy Varnish Company, Newark, N. J. Paint enamels. No. 150,820; Nov. 8.

National Herb Medicine Company of Missouri, The, St. Louis, Mo. Female tonic. No. 150,199; Nov. 8.

New York Merchandise Company, New York, N. Y. Hair-nets. No. 147,838; Nov. 8.

Nissen, John J., Baking Company, Portland, Me. Bread, biscuits, cake, &c. No. 144,539; Nov. 8.

Norton Company, Worcester, Mass. Grinding-machines and attachments. No. 150,406; Nov. 8.

Odle Brothers, Detroit, Mich. Traveling-belt signs. No. 149,419; Nov. 8.

Ohio Valley Drug Company, Wheeling, W. Va. Syrup terebene compound. No. 151,328; Nov. 8.

Oklahoma Mill Co., Kingfisher, Okla. Wheat-flour. No. 150,821; Nov. 8.

Ouellett, Alexis, Nashua, N. H. Furniture and automobile polish. No. 149,974; Nov. 8.

Panrex Manufacturing Co., Chicago, Ill. Shoe-polishes, kid-cleaners, and leather-dressings. No. 151,560; Nov. 8.

Parsons, Benjamin J., Redditch, England. Needles, also toilet-pins. No. 135,107; Nov. 8.

Passy, Mary M., Port Hope, Ontario, Canada. Reaching device for hanging pictures and curtain-poles and taking down same. No. 111,736; Nov. 8.

Patton, Daniel T. and Company, Grand Rapids, Mich. Handkerchiefs. No. 152,651; Nov. 8.

Penn Drug Specialty Co., Pittsburgh, Pa. Handkerchiefs. No. 149,651; Nov. 8.

Pennsylvania Petroleum Company, Kansas City, Mo. Motor-lubricating oil. No. 151,957; Nov. 8.

Peter Cailler Kohler Swiss Chocolates Co., Inc., New York, N. Y. Milk-chocolate and cocoa. No. 151,091; Nov. 8.

Pittsburgh Brewing Company, Pittsburgh, Pa. Non-alcoholic, maltless beverage. No. 131,964; Nov. 8.

Polx, G. M., Inc., Brooklyn, N. Y. Belts for personal use. No. 147,268; Nov. 8.

Post-Michel Co., Inc., Buffalo, N. Y. Greeting-cards. No. 153,232; Nov. 8.

Puritan Pharmaceutical Co., St. Louis, Mo. Kidney and bladder pills, toothache-drops, liniment, &c. No. 151,289; Nov. 8.

Purity Cream Cheese Company, The, Cleveland, Ohio. Brinda cheese. No. 150,408; Nov. 8.

Reese Chemical Company, The, Cleveland, Ohio. Remedy for headache and neuralgia. No. 139,754; Nov. 8.

Rethaler, Louis M., Battle Creek, Mich. Trusses for hernia, shoulder-braces, arch-supports, and abdominal supporters. No. 123,496; Nov. 8.

Richman, J. & Co., New York, N. Y. Cotton, silk, and cotton and silk piece goods. No. 151,380; Nov. 8.

Riggs Chemical Laboratories, Orlando, Fla. Medicated powder for treatment of pyorrhea. No. 151,383; Nov. 8.

River Nile Company, San Francisco, Calif. Non-alcoholic, maltless beverage, similar to soda-water. No. 151,562; Nov. 8.

Robb-Ross Co., Sioux City, Iowa. Food-flavoring extracts, peanut-butter, vinegar, &c. No. 150,827; Nov. 8.

Roessel, Louis, & Co. Inc., New York, N. Y. Crepe and broad silks in the piece. No. 147,991; Nov. 8.

Ryan-Cushing Company, Boston, Mass. Leather hand-bags. No. 147,125; Nov. 8.

S. & G. Manufacturing Company, Stockton, Calif. Water-circulator for fatersal-combustion engines. No. 149,420; Nov. 8.

Salisbury Refining Company, Ltd., Lauderdale, La. Sugar, table and cooking syrups, and molasses. No. 146,486; Nov. 8.

Samstag & Hilder Bros., New York, N. Y. Hair-nets. No. 151,772; Nov. 8.

Samstag & Hilder Bros., New York, N. Y. Glass and metal beads. No. 152,485; Nov. 8.

San Antonio Drug Co., San Antonio, Tex. Toilet-tweezers and finger-nail files. No. 142,421; Nov. 8.

Sanborn, George W., & Sons, Astoria, Oreg. Canned salmon. No. 149,934; Nov. 8.

Sanger Brothers Inc., Dallas, Tex., and New York, N. Y. Leather shoes for children. No. 147,849; Nov. 8.

Schmid, Augusta, Philadelphia, Pa. Supporter-belts for sanitary napkins. No. 148,173; Nov. 8.

Schwarz, John A. Inc., New York and Brooklyn, N. Y. Mattresses. No. 135,306; Nov. 8.

Science Service, Incorporated, Wilmington, Del., and Washington, D. C. Publications or scientific news bulletins published periodically. No. 152,771; Nov. 8.

Scrantonecd Container Corporation, The, Huntington, W. Va. Sanitary Containers. No. 150,062; Nov. 8.

Sherwin-Williams Company, The, Cleveland, Ohio. Soaps, metal-polish, leather, auto-top, and harness dressings, &c. No. 137,046; Nov. 8.

Shine, Robert J., Hagerstown, Md. Non-alcoholic, non-cereal, maltless beverage and syrup for making same. No. 152,520; Nov. 8.

Shuster Engineering Corporation, Philadelphia, Pa. Wrenches. No. 149,782; Nov. 8.

Sidenberg, G., & Co., New York, N. Y. Ruffings and plaitings for neckwear and trimmings. No. 152,936; Nov. 8.

Simpson, John T., Palmyra, Va. Preparation used externally for pneumonia, throat and lung affections. No. 133,633; Nov. 8.

Sims, James E., Oradell, N. J. Preparation for waterproofing straw paper, and protecting brass, silver, &c., from tarnish. No. 149,826; Nov. 8.

Smaltz-Goodwin Company, Philadelphia, Pa. Ladies' shoes of leather and of fabric. No. 146,980; Nov. 8.

Smithe, F. L., Machine Company Incorporated, New York, N. Y. Machines for making envelops. No. 149,608; Nov. 8.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Smooth-On Manufacturing Company, Jersey City, N. J. Ready-mixed paints. No. 145,799; Nov. 8.

Société Anonyme des Usines Giulini, Basel, Switzerland. Fluxes for soldering and welding. No. 148,956; Nov. 8.

Societe Chimique des Usines du Rhone, Paris, France. Hypnotic analgesic. No. 151,484; Nov. 8.

Societe Chimique des Usines du Rhone, Paris, France. Antirheumatic analgesic. No. 151,485; Nov. 8.

Societe Chimique des Usines du Rhone, Paris, France. Preparation for causing narrowness of blood vessels. No. 151,486; Nov. 8.

Societe Chimique des Usines du Rhone, Paris, France. Local anesthetic. No. 151,487; Nov. 8.

Societe Chimique des Usines du Rhone, Paris, France. Preparation for treatment of gout. No. 151,488; Nov. 8.

Societe Chimique des Usines du Rhone, Paris, France. Trypanocid. No. 151,489; Nov. 8.

Soffos, Theodore G., New York, N. Y. Liquid preparation for the hair and scalp. No. 150,117; Nov. 8.

Sorbo Rubber Sponge Products Ltd., Woking, England. Playing-balls, toys, leg-guards, and gloves made of rubber sponge. No. 137,553; Nov. 8.

Soulé, Edward L., San Francisco, Calif. Iron and steel products, &c. No. 145,366; Nov. 8.

Southern Cotton Oil Company, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga., and Chicago, Ill. Paints. No. 150,636; Nov. 8.

Spalding, A. G., & Bros., New York, N. Y. Sweaters, jerseys, and baseball-suits. No. 147,261; Nov. 8.

Spelts Grain & Coal Co., Albert Lea, Minn. Chicken feed. No. 150,042; Nov. 8.

Stam, Benjamin I. John, Stoughton, Mass. Shoes made of leather, rubber, fabric compositions, and combinations thereof. No. 146,038; Nov. 8.

Standard Oil Company of New York, New York, N. Y. Medicinal oils for constipation, laundry-wax, petroleum, disinfectants, and dyes. No. 136,208; Nov. 8.

Stegall, R. M., Chattanooga, Tenn. Dairy feed. No. 147,474; Nov. 8.

Stuart, Orville D., Chicago, Ill. Medical healing-ointment and deodoriser. No. 150,039; Nov. 8.

Sweeney, William R., Salisbury, Mo. Rat, mouse, mole, and gopher poison. No. 149,562; Nov. 8.

Szabo & Beer, New York, N. Y. Dental articulators. No. 151,925; Nov. 8.

Texas Company, The, Houston, Tex., and New York, N. Y. Gasolene and motor fuel-oils. No. 152,290; Nov. 8.

Thanhouser & Weiller, Baltimore, Md. Children's union-suits of textile fabrics, sleeping-garments, &c. No. 147,379; Nov. 8.

Thompson, William B., Los Angeles, Calif. Semi-annual magazine. No. 152,046; Nov. 8.

Thomson-Diggs Company, The, Sacramento, Calif. Fishing rods, reels, and lines, tennis-rackets, baseball-gloves, &c. No. 148,176; Nov. 8.

Tilton & Keeler, Inc., New Lork, N. Y. Cotton suiting in the piece. No. 152,597; Nov. 8.

Toycraft Rubber Co., The, Ashland, Ohio. Toy balloons, toy rubber balls, and novelties, &c. No. 141,475; Nov. 8.

Triple-Wear Hosiery Mills, Philadelphia, Pa. Hosiery. No. 128,804; Nov. 8.

U. S. Oil & Supply Co., Providence, R. I. Wool-oil used to lubricate and soften wool preparatory to spinning. No. 141,611; Nov. 8.

Ucanco Candy Company, Davenport, Iowa. Candy, such as chocolates, &c., marketed in individual wrappers. No. 147,479; Nov. 8.

United Iron Works, Inc., Kansas City, Mo. Pumps, crossover-dumps, concentrating plants, well-drilling tools, &c. No. 134,046; Nov. 8.

Van Cruler Company, Newark, N. J. Crullers. No. 149,530; Nov. 8.

Vassmer, Andreas C., Chicago, Ill. Candy. No. 143,072; Nov. 8.

Ventalite Shade Regulator Company, St. Louis, Mo. Window attachment for carrying and adjusting window-shades to any desired position. No. 151,455; Nov. 8.

Vidor, King W., Los Angeles, Calif. Toys, particularly toy figures whittled out of wood, &c. No. 131,679; Nov. 8.

Volto Company, The, Cleveland, Ohio. Medicament-volatilisers. No. 146,153; Nov. 8.

Walker Stetson Company, Boston, Mass. Men's and boys' belts, gloves, and mittens, jerseys, raincoats, women's and children's bathing-suits, &c. No. 145,248; Nov. 8.

Walsh, William M., New York, N. Y. Weekly publication. No. 139,103; Nov. 8.

Walton & Hoffman, Buffalo, N. Y. Potato chips. No. 147,699; Nov. 8.

Wasboe, Olaf, New York, N. Y. Pure oil extracted from fresh cod-livers. No. 148,520; Nov. 8.

Weeks, George F., Washington, D. C. Magazine published monthly. No. 152,150; Nov. 8.

Weissman, Joseph, Brooklyn, N. Y. Catamenial napkins. No. 150,839; Nov. 8.

Wessel, Herman, Cincinnati, Ohio. Box, cotton-top, hair, and cotton-felt mattresses, pillows. No. 143,800; Nov. 8.

Western Cooperage Co., Portland, Oreg. Tight barrels and kegs and staves and heading therefor. No. 150,607; Nov. 8.

Wicomico Farmers Association, Inc., Salisbury, Md. Fresh fruit, vegetables, and berries. No. 149,568; Nov. 8.

Will & Baumer Candle Co. Inc., Syracuse, N. Y. Candles. No. 151,733; Nov. 8.

Williams, J. H., & Co., Brooklyn, N. Y. Wrenches, tool-holders, lathe-dogs, clamps. No. 150,382; Nov. 8.

Wilson, Arthur C., Brevard, N. C. General tonic and blood preparation. No. 150,837; Nov. 8.

Wilson Brothers, Chicago, Ill. Garters. No. 147,387; Nov. 8.

Winchester Repeating Arms Co., New Haven, Conn. Butcher, cook, pocket, &c., knives, saws, pipe-wrenches, &c. No. 149,432; Nov. 8.

Worcester Salt Co., New York, N. Y. Salt—*i. e.*, sodium chlorid. No. 150,084; Nov. 8.

Yale Products Co., Fort Worth, Tex. Pickles. No. 120,470; Nov. 8.

York Milk Machinery Company, York, Pa. Bottle-washing machine. No. 149,309; Nov. 8.

Youth-Gland Chemical Laboratories, Ltd., Chicago, Ill. Medicine for lack of vitality, premature old age, and to stimulate energy, &c. No. 148,008; Nov. 8.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 8TH DAY OF NOVEMBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abrading device. W. E. Laird. No. 1,396,585; Nov. 8.
Abrasive material, Handling. M. A. Rees. No. 1,396,286; Nov. 8.
Acid, Obtaining sodium salt from hydrocarbon monosulfonic. R. M. Cole. No. 1,396,320; Nov. 8.
Acids, Producing organic. A. A. Backhaus. Nos. 1,396,008-10; Nov. 8.
Adding-machine. J. Magnus. No. 1,396,716; Nov. 8.
Advertising device. C. W. King. No. 1,396,640; Nov. 8.
Aerial apparatus. J. T. C. Williams. No. 1,396,469; Nov. 8.
Aerial torpedo or bomb. E. W. Johnson. No. 1,396,634; Nov. 8.
Aeroplane. G. Ortgier. No. 1,396,459; Nov. 8.
Aeroplane-wings, Joint for. A. H. G. Fokker. Nos. 1,396,176-7; Nov. 8.
Air-brakes, Graduated-release device for. G. A. Anderson. No. 1,396,392; Nov. 8.
Alarm: *See*—
Fire-alarm.
Alum, Making potash. T. H. Wright. No. 1,396,675; Nov. 8.
Ammonia, Producing. I. W. Cedarberg. No. 1,396,557; Nov. 8.
Amusement device. E. L. Bowman. No. 1,396,247; Nov. 8.
Anchor, Bolt-. C. S. Girvan. No. 1,396,569; Nov. 8.
Anchoring device. M. H. Paine and W. S. Williams. No. 1,396,278-9; Nov. 8.
Annular bodies, Feeding device for. A. G. E. Hultgren. No. 1,396,116; Nov. 8.
Annunciator. B. E. Eshigting. No. 1,396,636; Nov. 8.
Antiskid device. G. Heap. No. 1,396,207; Nov. 8.
Antiskid device. C. A. Prince. No. 1,396,567; Nov. 8.
Anvil. W. Dorman. No. 1,396,679; Nov. 8.
Arch-support. P. Dumbo. No. 1,396,323; Nov. 8.
Arch-support. E. C. Ross. No. 1,396,526; Nov. 8.
Armor-winding machine. H. Hansen. No. 1,396,197; Nov. 8.
Article-holder. M. W. Holcomb. No. 1,396,513; Nov. 8.
Autographic registers, Paper-feed device for. W. C. Sheup and W. E. Oliver. No. 1,396,070; Nov. 8.
Automobile-bumper. E. G. Davison. No. 1,396,026; Nov. 8.
Automobile-bumper. F. Ellis. No. 1,396,628; Nov. 8.
Automobile-bumper. C. H. Hathaway. No. 1,396,201; Nov. 8.
Automobile-bumper. E. G. Ratterman. No. 1,396,057; Nov. 8.
Automobile-heater. C. J. Patterson and O. J. Kilburn. No. 1,396,522; Nov. 8.
Automobile-lock. J. W. Barwick. No. 1,396,091; Nov. 8.
Automobile-steering-column lock. W. H. Dunn. No. 1,396,508; Nov. 8.
Automobiles, Adjustable knuckle-joint for. F. Gieseke. No. 1,396,324; Nov. 8.
Automobiles, Brake-actuating mechanism for. J., C. C., and H. Williams. No. 1,396,488; Nov. 8.
Automobiles, Door for. J. J. McGuire. No. 1,396,448; Nov. 8.
Automobiles, Latch for hoods of. F. Mathews. No. 1,396,704; Nov. 8.
Automobiles, &c., Radiator for. H. N. Jensen. No. 1,396,663; Nov. 8.
Automobiles, Shipping-standard for. F. H. Curry. No. 1,396,360; Nov. 8.
Automobiles Steering mechanism for. F. I. Tone. No. 1,396,604; Nov. 8.
Axle. C. S. Dahlquist. No. 1,396,025; Nov. 8.
Axle adjustment device, Stub-. O. E. Kopplin. No. 1,396,128; Nov. 8.
Axle-gaging device. D. H. Turnbull. No. 1,396,477; Nov. 8.
Bag-tie seal-lock. E. Tyden. No. 1,396,479; Nov. 8.
Baller. J. P. T. Davis. No. 1,396,262; Nov. 8.
Balloon while inflated, Obtaining samples from a. R. H. Upson. No. 1,396,709; Nov. 8.
Barber's appliance. S. M. Coffman. No. 1,396,507; Nov. 8.
Battery: *See*—
Storage battery.
Battery-plate-burning rack. E. W. Campbell and M. W. Ramsey. No. 1,396,162; Nov. 8.
Beans, Machine for snipping string-. A. P. Wolfe. No. 1,396,080; Nov. 8.
Bearing. L. Spierer. No. 1,396,295; Nov. 8.
Bearing, Roller side. F. L. Barber. No. 1,396,014; Nov. 8.
Bearing-filling machine. L. Bartlett. No. 1,396,089; Nov. 8.
Bearings, Punch-filler for. L. Bartlett. No. 1,396,090; Nov. 8.
Bedpan, Sanitary. L. Pieters. No. 1,396,382; Nov. 8.
Bedstead. D. C. Travis. No. 1,396,476; Nov. 8.
Belt-drive, Change-speed. H. H. F. Danger. No. 1,396,168; Nov. 8.
Belt-stretcher. W. R. Waters. No. 1,396,306; Nov. 8.
Belt-stretching device. W. R. Waters. No. 1,396,305; Nov. 8.
Belts, Link for chain. R. W. Dull. No. 1,396,031; Nov. 8.
Binder, Loose-leaf. M. P. Jackson. No. 1,396,631; Nov. 8.
Bit-recovering means. J. P. T. Davis. No. 1,396,260; Nov. 8.
Blank-feeding mechanism. G. Goddu. No. 1,396,191; Nov. 8.
Block: *See*—
Dressing-block. Tile block.
Drill-block.
Blow-out boot. G. G. Williams. No. 1,396,487; Nov. 8.
Board: *See*—
Game-board.
Bomb carrying and release system. H. D. Weed. No. 1,396,150; Nov. 8.
Book and tray stand, Handy. A. G. Greenwood. No. 1,396,700; Nov. 8.
Bottle-capper. H. G. Rice. (Reissue.) No. 15,222; Nov. 8.
Box: *See*—
Match-box.
Box-opener. E. Laskowski. No. 1,396,378; Nov. 8.
Braces, &c., Fastenings for attaching. C. Romati. No. 1,396,344; Nov. 8.
Bracket-support. G. S. Bartlett. No. 1,396,548; Nov. 8.
Brake: *See*—
Electrically-operated brake. Phonograph-brake.
Hand-brake.
Breeding-crate. J. W. Corington. No. 1,396,256; Nov. 8.
Briquets and products thereof, Making. W. P. Taggart. No. 1,396,603; Nov. 8.
Broach-tooth. J. L. Perkins. No. 1,396,523; Nov. 8.
Broom-corn-tabling machine. T. K. Ladd. No. 1,396,331; Nov. 8.
Brush-holder. L. A. Merk. No. 1,396,451; Nov. 8.
Brush, Shaving-. E. F. Tibbetts. No. 1,396,474; Nov. 8.
Buckle, Belt-. S. Buchsbaum. No. 1,396,020; Nov. 8.
Building construction. I. P. Walker. No. 1,396,543; Nov. 8.
Bull-holding instrument. O. E. Hatch. No. 1,396,427; Nov. 8.
Bumper lock, Automatic-. J. J. Harrison. No. 1,396,369; Nov. 8.
Bundle-tape-applying device. T. M. Harrigan. No. 1,396,422; Nov. 8.
Burner: *See*—
Fuel-oil burner. Oil-burner.
Gas-burner.
Burner. E. Pemberton. No. 1,396,381; Nov. 8.
Butter pads, Device for making. R. Kessler. No. 1,396,488; Nov. 8.
Button or badge. C. F. Mitchel. No. 1,396,137; Nov. 8.
Cabinet and equipments therefor, Type-. M. C. Harris. No. 1,396,199; Nov. 8.
Cabinet for domestic lighting plants. B. A. Linderman. No. 1,396,223; Nov. 8.
Cabinet, Music-roll. G. Merlo. No. 1,396,378; Nov. 8.
Cabinet, Sewing-. S. A. Clark. No. 1,396,624; Nov. 8.
Cabinets, Combination record rack and ejector for. J. F. Biggs. No. 1,396,156; Nov. 8.
Cable-clamp. F. Hotchner. No. 1,396,115; Nov. 8.
Calculating-machine. H. Golber. No. 1,396,326; Nov. 8.
Calculating-machine. E. E. Phinney. No. 1,396,662; Nov. 8.
Cameras, Adjustable iris and curtain for. J. E. Leonard. No. 1,396,717; Nov. 8.
Can: *See*—
Sanitary can. Tobacco-can.
Can-covers, Drier for. F. C. Hirsch. No. 1,396,481; Nov. 8.
Can-double-seaming machine. H. H. Hood. No. 1,396,433; Nov. 8.
Can-opener. H. Coensgen. No. 1,396,254; Nov. 8.
Can-punch. J. G. Hand. No. 1,396,629; Nov. 8.
Can-soldering machine. A. Alvarez. No. 1,396,011; Nov. 8.

Cane, Collapsible. F. Kntwics. No. 1,396,372; Nov. 8.
Canoes and other boats, Canopy-support for. E. P. Schmidt. No. 1,396,063; Nov. 8.
Capetan-screw. O. A. Moore. No. 1,396,455; Nov. 8.
Car, Freight-. A. I. Glinchfield. No. 1,396,420; Nov. 8.
Carbid, Making. J. H. Edd. No. 1,396,068; Nov. 8.
Carbon and similar papers, Renewing. H. H. Buckley. No. 1,396,403; Nov. 8.
Carbon dioxid, Masks for the inhalation of. Y. Henderson. No. 1,396,429; Nov. 8.
Carbon, Production of. C. S. Bradley. No. 1,396,018; Nov. 8.
Carbureter. F. M. Furber. No. 1,396,184; Nov. 8.
Card, Sales-registration. W. H. Roystone. No. 1,396,288; Nov. 8.
Carline. F. Mathews. No. 1,396,703; Nov. 8.
Carrier: *See*—
Radiator-carrier.
Carrier, Radiator-. C. G. Hall, F. A. Devereaux, and A. R. Cobey. No. 1,396,328; Nov. 8.
Cart, Wheeling service-. L. H. Kaiser. No. 1,396,718; Nov. 8.
Cash and currency container. J. L. Davidson. No. 1,396,361; Nov. 8.
Cash-register. W. L. Paden. No. 1,396,277; Nov. 8.
Casting and mold therefor. A. Rautenbach. No. 1,396,341; Nov. 8.
Catalysis, Apparatus for. A. A. Backhaus. No. 1,396,715; Nov. 8.
Catalyzer apparatus. W. F. Cochrane. No. 1,396,358; Nov. 8.
Catalyzer apparatus. W. C. Whitaker. No. 1,396,389; Nov. 8.
Chain. C. W. Gregory. No. 1,396,701; Nov. 8.
Chains of electric batteries, Fastening means for the suspension. A. C. Becker. No. 1,396,463; Nov. 8.
Chairs, Headrest for. C. W. Fertig and A. J. May. No. 1,396,175; Nov. 8.
Chairs, Spring device for. H. A. Parr. No. 1,396,661; Nov. 8.
Check-holder. C. E. Bell. No. 1,396,499; Nov. 8.
Chuck. D. E. Carriere. No. 1,396,022; Nov. 8.
Circuit-breaker, Electrically-operated. G. A. Burnham. No. 1,396,094; Nov. 8.
Circuit-controller. W. C. Stevens. No. 1,396,694; Nov. 8.
Clamp: *See*—
Rod-clamp.
Clamp. S. Bullum. No. 1,396,353; Nov. 8.
Clamshell-dumping device. A. Stewart. No. 1,396,347; Nov. 8.
Clarifying solutions. J. A. McCaskell. No. 1,396,514; Nov. 8.
Clasp: *See*—
Safety-clasp.
Clasp. S. Buchsbaum. No. 1,396,019; Nov. 8.
Clasp, Safety-. H. V. Basley. No. 1,396,511; Nov. 8.
Cleaner: *See*—
Vacuum-cleaner.
Cleaner, Vacuum-. J. W. Diephouse. No. 1,396,263; Nov. 8.
Clip: *See*—
Laundry-clip.
Closet-seats, Sanitary appliance for. N. N. Barmeos. No. 1,396,547; Nov. 8.
Cloth-repairing machine. Press-. A. J. Furry. No. 1,396,644; Nov. 8.
Clothes rack or hanger. J. Row and C. F. Smith. No. 1,396,692; Nov. 8.
Clutch. B. E. Richardson. No. 1,396,343; Nov. 8.
Coal-tar, Treating. W. Anderson. No. 1,396,003; Nov. 8.
Coating mixture and film, Light-sensitive collodion. J. Rheinberg. No. 1,396,592; Nov. 8.
Coating steel sheets with tin. S. Peacock. No. 1,396,661; Nov. 8.
Coating substances to protect them or render them nonporous; Material or producing materials for. C. A. Cleghorn. No. 1,396,023; Nov. 8.
Cock-operating device, Drain-. W. H. Stiglitz. No. 1,396,540; Nov. 8.
Coffee-making device. J. D. Houck. No. 1,396,695; Nov. 8.
Coin-controlled devices, Counter-operating mechanism for. W. C. Rees. No. 1,396,342; Nov. 8.
Coin-controlled mechanism. F. W. Stice. No. 1,396,395; Nov. 8.
Collar. J. W. Hess and F. S. Hodgins. No. 1,396,204; Nov. 8.
Collar-link. E. W. Johnson. No. 1,396,041; Nov. 8.
Collar, Soft. J. W. Fischer. No. 1,396,413; Nov. 8.
Comb. T. M. Noyes. No. 1,396,275; Nov. 8.
Compasses. P. Gepack. No. 1,396,417; Nov. 8.
Composition. A. J. Baerwinkle. No. 1,396,495; Nov. 8.
Compressor, Power-operated. F. Ackerman and C. W. Frees. No. 1,396,331; Nov. 8.
Compressors, Lubricating system for fluid-. R. A. Bix. No. 1,396,666; Nov. 8.
Concrete construction. R. A. Megenity. (Reissue.) No. 15,221; Nov. 8.
Concrete-distributers, Driving means for. O. Sheck, No. 1,396,534; Nov. 8.
Condenser, Variable. W. Dubilier. No. 1,396,030; Nov. 8.
Conduit, Sectional. D. D. Tracy. No. 1,396,301; Nov. 8.
Connecting-rod. E. H. Jackson. No. 1,396,485; Nov. 8.
Container, Dispensing-. M. J. Steele. No. 1,396,469; Nov. 8.
Cooker, Camper's. A. B. Wiley. No. 1,396,613; Nov. 8.
Cooking-retort. F. B. Donnellan. No. 1,396,266; Nov. 8.
Core, Contractible. M. H. Paine. No. 1,396,280; Nov. 8.
Costume, Sport-. M. E. Heinrich. No. 1,396,203; Nov. 8.
Cot, Folding. D. W. Richards. No. 1,396,593; Nov. 8.
Cotton-ging, Hulling and cleaning feeder for. J. M. Pearson. No. 1,396,142; Nov. 8.
Cotton, linen, or similar threads, Machine for splicing and piecing. A. Bennett. No. 1,396,618; Nov. 8.
Cotton-lint collector. A. Stables. No. 1,396,673; Nov. 8.
Cotton-picking apparatus. A. D. Alvis. No. 1,396,012; Nov. 8.
Coupon or card feeding device. F. C. Schofield. No. 1,396,531; Nov. 8.
Cuff, Reversible. J. J. Long. No. 1,396,643; Nov. 8.
Cup, Shaving-. S. Dorey. No. 1,396,561; Nov. 8.
Cranes, Means for braking. H. E. Scott. No. 1,396,532; Nov. 8.
Crushing. G. Johnston. No. 1,396,712; Nov. 8.
Cup: *See*—
Shaving-cup.
Current-distributing acts against temporary interruptions, System for protecting electric-. M. Hochstadter. No. 1,396,112; Nov. 8.
Current or tide motor. G. P. A. Weisenborn. No. 1,396,600; Nov. 8.
Current vibratory motor, Direct-. L. B. McDonald. No. 1,396,336; Nov. 8.
Cut-out, Exhaust. E. R. Draver. No. 1,396,410; Nov. 8.
Cutter: *See*—
Rotary cutter.
Cutter, Rotary. A. M. Simpson. No. 1,396,600; Nov. 8.
Cutting-tool. A. R. Fors. No. 1,396,180; Nov. 8.
Dealcoholizing apparatus. E. H. Faugfelder. No. 1,396,232; Nov. 8.
Demonstrating device. E. P. Moffit. No. 1,396,453; Nov. 8.
Dental amalgam or alloy mixer. B. Simi. No. 1,396,587; Nov. 8.
Derrick. M. Burke. No. 1,396,250; Nov. 8.
Design, Reproducing. J. W. Aston. No. 1,396,398; Nov. 8.
Desk. F. H. Shaw. No. 1,396,291; Nov. 8.
Desk-receptacle. A. Martin. No. 1,396,538; Nov. 8.
Despatch apparatus, Pneumatic. J. G. Maclaren. No. 1,396,449; Nov. 8.
Detachable handle. A. Nelson. No. 1,396,140; Nov. 8.
Die, Trimming. J. E. Peterson. No. 1,396,590; Nov. 8.
Direction-indicator. C. A. Warring. No. 1,396,394; Nov. 8.
Disintegrating-machine. T. Gilmore, Jr. No. 1,396,168; Nov. 8.
Display-folder. F. X. List. No. 1,396,224; Nov. 8.
Display-sign. C. F. Boettcher. No. 1,396,245; Nov. 8.
Display-stand. G. W. Day. No. 1,396,027; Nov. 8.
Distances, Device for estimating. R. L. Williams. No. 1,396,491; Nov. 8.
Distillery waste, Treating. A. A. Backhaus and C. Hiemer, Jr. No. 1,396,006; Nov. 8.
Distillery waste, Treating. A. A. Backhaus. No. 1,396,007; Nov. 8.
Distillery waste, Treating. C. Haner, Jr. No. 1,396,368; Nov. 8.
Doll, Walking. H. H. Coleman. No. 1,396,521; Nov. 8.
Door, Flexible. A. E. Fogelquist. No. 1,396,414; Nov. 8.
Door-silencer. G. E. Damiani. No. 1,396,167; Nov. 8.
Door-strip. J. G. Wright and H. F. Bennett. No. 1,396,085; Nov. 8.
Dower and self-feeder, Automatic. J. W. Corlington. No. 1,396,237; Nov. 8.
Dough-mixing apparatus. W. A. Darrah. No. 1,396,469; Nov. 8.
Draft-equaliser. W. O. Heath. No. 1,396,202; Nov. 8.
Drain-pan. W. I. Garrett. No. 1,396,416; Nov. 8.
Drawbar. N. C. Bennett. No. 1,396,549; Nov. 8.
Drawer-slide. J. G. Wright. No. 1,396,684; Nov. 8.
Dressing-block. G. A. Montgomery. No. 1,396,540; Nov. 8.
Drill-block. H. Faltermayer. No. 1,396,509; Nov. 8.
Drilling-rig. J. J. Thompson. No. 1,396,475; Nov. 8.
Dry-cell-tamping apparatus. H. T. Lang. No. 1,396,662; Nov. 8.
Dumps, Automatic gooseneck-releaser for crossover tipple-. A. Kuretich. No. 1,396,127; Nov. 6.
Dust-recovering machine. G. A. Giesaler. No. 1,396,126; Nov. 8.
Dynamo-electric machine. R. W. Myers. No. 1,396,521; Nov. 8.
Dynamo-electric machines, Coil-retainer for. H. Finger. No. 1,396,595; Nov. 8.
Dyestuff and making same, Green. V. Villiger and H. von Kraussichsfeldt. No. 1,396,483; Nov. 8.
Earth-boring machine. C. S. Corrigan. No. 1,396,635; Nov. 8.
Educational device. E. L. Mears. No. 1,396,579; Nov. 8.
Electric-battery system and operating the same. E. Thomson. No. 1,396,541; Nov. 8.
Electric furnace. W. Lohrey. No. 1,396,374; Nov. 8.
Electric motor. L. R. McDonald. No. 1,396,334; Nov. 8.
Electric rotating furnace. C. E. Cornelius. No. 1,396,617; Nov. 8.
Electric signal-switch. C. C. Bagnell. No. 1,396,698; Nov. 8.
Electric signal system, Clock-Controlled. J. F. Hinlocher. No. 1,396,510; Nov. 8.
Electric system. A. J. Dreyer. No. 1,396,101; Nov. 6.

Electrical apparatus. G. Fascioli. No. 1,396,543; Nov. 8.
Electrical distribution, System of. L. Lyndon. No. 1,396,446; Nov. 8.
Electrical switches, Metal box or receptacle for. B. D. Morton. No. 1,396,434; Nov. 8.
Electrical system. C. E. Young. No. 1,396,309; Nov. 8.
Electrical tank-gage. E. C. Bartlett and J. E. Allison. No. 1,396,155; Nov. 8.
Electrically-operated brake. E. V. Hartford. No. 1,396,426; Nov. 8.
Elevator: *See*—
Casing-elevator.
Elevator, Casing-. A. J. Boyter. No. 1,396,317; Nov. 8.
Elevator, conveyer, and crane. A. Godin. No. 1,396,193; Nov. 8.
Emulsions, Apparatus for producing. J. B. McFadden. No. 1,396,376; Nov. 8.
Engine: *See*—
Gas-engine.
Internal-combustion engine.
Engine-starter. W. L. McGrath. Nos. 1,396,517-10; Nov. 8.
Engine-starter. M. P. Whitney. Nos. 1,396,695-6; Nov. 8.
Engine starters, Carbureted-air distributer for explosive-. E. Dumanoir. No. 1,396,322; Nov. 8.
Engine-tester. F. Montilio. No. 1,396,454; Nov. 8.
Engines, Apparatus for cranking or starting internal-combustion. R. A. Miller-Argue. No. 1,396,647; Nov. 8.
Engines, Mixing device for internal-combustion. H. C. Potter. No. 1,396,054; Nov. 8.
Engines, Starter for internal-combustion. McK. Barclay and F. W. Parkhill. No. 1,396,497; Nov. 8.
Engines, Stove for intake-manifolds of internal-combustion. S. I. Febete. No. 1,396,263; Nov. 8.
Evaporator-heating-unit-removing attachment. S. E. Donnelly. No. 1,396,316; Nov. 8.
Exercises and weighing-scale, Combined. C. A. Perry. No. 1,396,524; Nov. 8.
Fastening device. S. G. Watt. No. 1,396,238; Nov. 8.
Faucets, Automatic tally for dispensing-. W. H. Shindell. No. 1,396,536; Nov. 8.
Filing-cabinet. P. F. Williams. No. 1,396,490; Nov. 8.
Filtering and cleansing composition. H. R. Bloomfield. No. 1,396,244; Nov. 8.
Fireplace. E. P. Goff. No. 1,396,396; Nov. 8.
Fire-extinguisher and making same. D. Estes. No. 1,396,342; Nov. 8.
Fire-protector. N. A. Nicholson. No. 1,396,656; Nov. 8.
Fireproofing composition. S. Di Filippo. No. 1,396,264; Nov. 8.
Flange-forming machine, Lined-pipe-. P. A. Foley. No. 1,396,179; Nov. 8.
Fluid-pressure system. F. S. Vaughn. No. 1,396,482; Nov. 8.
Fluid-pressure system. V. V. Vonsechoten. No. 1,396,237; Nov. 8.
Flushing apparatus. H. J. Bresson. No. 1,396,400; Nov. 8.
Fountain, Sanitary drinking-. H. Morin and F. Pothier. No. 1,396,380; Nov. 8.
Fowl-spray, Automatic. B. A. Shaw. No. 1,396,533; Nov. 8.
Frame: *See*—
Poster-frame. Spectacle-frame.
Fruit and vegetables, Apparatus and process for peeling. S. J. Dunkley. No. 1,396,268; Nov. 8.
Fruit, Device for dipping artificial. F. Ordine. No. 1,396,458; Nov. 8.
Friction device, Antistatic. A. Bunger. No. 1,396,318; Nov. 8.
Fuel, Apparatus for utilizing lamp-. J. H. Cooper. No. 1,396,097; Nov. 8.
Fuel-oil burner. A. R. Anthony. No. 1,396,086; Nov. 8.
Fuel-saving device. A. P. Thomasson. No. 1,396,472; Nov. 8.
Funnel. C. W. Vincent. No. 1,396,606; Nov. 8.
Furnace: *See*—
Electric furnace. Electric rotating furnace.
Furnace-hopper. W. Lloyd. No. 1,396,715; Nov. 8.
Furniture, Caster for angle-bar. G. G. Greene. No. 1,396,681; Nov. 8.
Furniture-polish. A. N. Scheim. No. 1,396,346; Nov. 8.
Fuse. C. T. McDonald. No. 1,396,333; Nov. 8.
Fuse, Electric. A. W. Steele. No. 1,396,297; Nov. 8.
Fuse or cut-out. G. W. Conner. No. 1,396,255; Nov. 8.
Fuse-plug. R. C. Bronson. No. 1,396,352; Nov. 8.
Fuse, Renewable. M. Podell. No. 1,396,460; Nov. 8.
Fuses, Tube for. J. G. Clemens. No. 1,396,357; Nov. 8.
Gage: *See*—
Electrical tank-gage. Micrometer-gage.
Gage. R. T. Newton. No. 1,396,655; Nov. 8.
Galalith, celluloid, &c., Producing imitations of. H. Stutzer. No. 1,396,675; Nov. 8.
Game. O. J. St. Pierre. No. 1,396,073; Nov. 8.
Game apparatus. H. A. Beerbaum. No. 1,396,396; Nov. 8.
Game-board. T. R. Harlow. No. 1,396,425; Nov. 8.
Garment. L. E. Alleigh. No. 1,396,616; Nov. 8.
Garment. M. Fuzansky and R. D. Von Rentsch. No. 1,396,462; Nov. 8.
Garter, Man's. M. B. Hammond and H. H. Taylor. No. 1,396,423; Nov. 8.
Gas-burner. A. H. Humphrey. No. 1,396,210; Nov. 8.
Gas-burner. H. R. Humphrey. No. 1,396,211; Nov. 8.
Gas-engine. J. A. Charter. No. 1,396,506; Nov. 8.
Gas-purifying composition and manufacturing same. E. P. Mase. No. 1,396,586; Nov. 8.
Gasolene-testing device. W. Fell. No. 1,396,565; Nov. 8.
Gate: *See*—
Railway-crossing gate.
Gear transmission, Change-speed-. D. Ferguson. No. 1,396,512; Nov. 8.
Gearing. W. F. Doyle. No. 1,396,029; Nov. 8.
Gearing, Differential. C. H. Logue and D. D. Ormsby. No. 1,396,225; Nov. 8.
Gearing, Toothed. M. Mang. No. 1,396,338; Nov. 8.
Gearing, Transmission-. J. Powell. No. 1,396,536; Nov. 8.
Glass and apparatus therefor, Casting plate-. J. W. Kunzler. No. 1,396,330; Nov. 8.
Glass articles, Ornamenting. J. A. Milliken. No. 1,396,691; Nov. 8.
Glass, Drawing. W. L. Meere. No. 1,396,339; Nov. 8.
Glass-drawing apparatus, Cooling device for. W. A. Jones. No. 1,396,216; Nov. 8.
Glove and mitten structure. B. Stewart. No. 1,396,539; Nov. 8.
Glue, Manufacture of vegetable. V. G. Biondo. No. 1,396,215; Nov. 8.
Golf-club. T. Taylor. No. 1,396,470; Nov. 8.
Grain, &c., Machine for treating. H. L. Breen. No. 1,396,621; Nov. 8.
Grain, Sprouting. N. A. Renstrom. No. 1,396,235; Nov. 8.
Grinding-machine. S. Lake. No. 1,396,130; Nov. 8.
Grinding machine, Internal-. H. F. Joseph. No. 1,396,128; Nov. 8.
Gum, Medicated chewing-. G. King. No. 1,396,641; Nov. 8.
Gun, Rifle-Thum. No. 1,396,349; Nov. 8.
Gun, Air-. F. F. Burton and T. D. Jocck. No. 1,396,404; Nov. 8.
Gun-searchlight. D. T. Smith. No. 1,396,147; Nov. 8.
Gun-slings, Attachment for. B. H. Grierson. No. 1,396,370; Nov. 8.
Guns, Apparatus for increasing the range of elevation in single-trail. E. Schneider. No. 1,396,664; Nov. 8.
Guns, Motor-car having four driving-wheels for the transport of. E. Schneider. Nos. 1,396,598-9; Nov. 8.
Guns, Recoil mechanism for. B. B. Holmes. No. 1,396,114; Nov. 8.
Hair-clipper. H. B. Sande and O. Moessing. No. 1,396,550; Nov. 8.
Hair-waver. H. Natkiel. No. 1,396,708; Nov. 8.
Hammock-support. L. I. Beckwith. No. 1,396,498; Nov. 8.
Hand-brake. R. E. Jackson. No. 1,396,119; Nov. 8.
Handle: *See*—
Detachable handle.
Hanger: *See*—
Trolley-track hanger.
Hat-lining, Adjustable. F. Grunig and M. L. Van Huel. No. 1,396,421; Nov. 8.
Haulage apparatus. C. T. Denham. No. 1,396,627; Nov. 8.
Heater: *See*—
Automobile-heater. Railway-switch heater.
Electric heater. Water-heater.
Heater. W. C. Garner. No. 1,396,104; Nov. 8.
Heater and cooker, Combination. P. Reinhardt. No. 1,396,464; Nov. 8.
Heater, Electric. J. R. Bakstad. No. 1,396,241; Nov. 8.
Heating element, Electrical. W. C. Garner. No. 1,396,105; Nov. 8.
Heel, Detachable. B. Summerfield. No. 1,396,299; Nov. 8.
Heel-gouging and lip-cutting machine. J. H. Pope. No. 1,396,143; Nov. 8.
Hides, Apparatus for treating. A. N. Walker. No. 1,396,660; Nov. 8.
Hobbyhorse. D. F. Tracey. No. 1,396,475; Nov. 8.
Horseshoe. W. J. Cahill. No. 1,396,405; Nov. 8.
Hose-mounting protector. F. O. Moesmer. No. 1,396,452; Nov. 8.
Huskers, shredders, and cutters, Self-feeder for. A. Berkemeyer. No. 1,396,015; Nov. 8.
Hydrocarbons, Purification of. O. E. Bransky. No. 1,396,399; Nov. 8.
Ignition apparatus. C. Kehrer. No. 1,396,637; Nov. 8.
Impression-adjusting and blanket-ironing device. O. L. Raabe. No. 1,396,656; Nov. 8.
Indicator: *See*—
Direction-indicator.
Indicator. J. J. Reid. No. 1,396,383; Nov. 8.
Induction-motor. T. Isoho. No. 1,396,579; Nov. 8.
Insect-catcher. W. C. Ryan and G. C. Ruhmann. No. 1,396,545; Nov. 8.
Internal-combustion engine. T. B. Funk and W. L. Carver. No. 1,396,183; Nov. 8.
Internal-combustion engine. E. T. Gilliard. No. 1,396,418; Nov. 8.
Internal-combustion engine. R. Johnson. No. 1,396,371; Nov. 8.
Internal-combustion engine. G. Mellen. No. 1,396,045; Nov. 8.
Jack: *See*—
Automobile-jack. Ratchet-jack.
Lifting-jack. Screw-jack.
Jack, Automobile-. G. L. Bonham. No. 1,396,619; Nov. 8.
Jack, Lifting-. J. Berg. No. 1,396,314; Nov. 8.

Jewel-bearing, Floating. K. B. Glenn. No. 1,396,570; Nov. 8.
Jewelry catch or clasp. F. W. Nittel. No. 1,396,568; Nov. 8.
Jogging-machine. S. E. Kately and H. C. Alger. No. 1,396,436; Nov. 8.
Joint: *See*—
Rail-joint. Universal joint.
Kilns, Arch-protecter for clamp-. F. Lackner. No. 1,396,189; Nov. 8.
Lamp. W. Knapp. No. 1,396,429; Nov. 8.
Lamps, Focusing socket for electric. E. A. Snow. No. 1,396,294; Nov. 8.
Latch, Crank-handle. E. E. Phinney. No. 1,396,663; Nov. 8.
Latch device. J. A. Kulier. No. 1,396,441; Nov. 8.
Laundry-clip. L. Kiml. No. 1,396,639; Nov. 8.
Leaf-springs, Antifriction device for. C. C. Carek. No. 1,396,251; Nov. 8.
Lens, Bifocal. L. W. Bugbee. No. 1,396,503; Nov. 8.
Lens, Bifocal. P. R. Walsh. No. 1,396,593; Nov. 8.
Lens-front mount. C. Vall. No. 1,396,385; Nov. 8.
Lifting-jack. H. M. Knox. No. 1,396,440; Nov. 8.
Lighting-fixture. E. B. Newman. No. 1,396,654; Nov. 8.
Lighting-fixture. E. C. White. No. 1,396,486; Nov. 8.
Linotype-machines, Gas-controlling device for. C. Sylvester. No. 1,396,705; Nov. 8.
Liquid-supply system. F. V. Risinger. No. 1,396,061; Nov. 8.
Liquids, Apparatus for sterilization or pasteurization of. A. Millerts. No. 1,396,520; Nov. 8.
Liquids, Electrical apparatus for heating. H. C. Sanders. No. 1,396,597; Nov. 8.
Liquids, Method and apparatus for treating. A. Jensen. No. 1,396,632; Nov. 8.
Liquors, Recovering the solids of waste pulp. W. H. Dickerson. No. 1,396,028; Nov. 8.
Lock: *See*—
Automobile-lock. Sash-lock.
Automobile steering-lock. Switch-lock.
Bag-tie seal-lock. Window-lock.
Lock. M. S. Beaver. No. 1,396,550; Nov. 8.
Lock. J. P. Cleal and R. E. Awde. No. 1,396,163; Nov. 8.
Lock and switch, Combination. I. B. Simms. No. 1,396,667; Nov. 8.
Locomotive driving-wheel. W. Kyle. No. 1,396,129; Nov. 8.
Locomotive, Steam-turbine-driven. C. Kohler. No. 1,396,220; Nov. 8.
Locomotive washout and refilling apparatus. J. O. Nelkirk. No. 1,396,139; Nov. 8.
Looms, Feeler mechanism for. A. E. Rhoades. No. 1,396,665; Nov. 8.
Looms, Feeler mechanism for. I. Snow. Nos. 1,396,669–72; Nov. 8.
Looms, Shuttle-actuating mechanism for. R. H. Smith. No. 1,396,602; Nov. 8.
Looms, Weft-replenishing mechanism for. H. W. Youngquist. No. 1,396,154; Nov. 8.
Machine-tool. M. M. Cory. No. 1,396,165; Nov. 8.
Machine-tool. E. G. Loomis. No. 1,396,332; Nov. 8.
Map-holder. J. J. Bovy. No. 1,396,553; Nov. 8.
Match-box. J. B. Young. No. 1,396,545; Nov. 8.
Measuring device. J. T. Wilson. No. 1,396,208; Nov. 8.
Measuring instrument, Electrical. L. T. Wilson. No. 1,396,350; Nov. 8.
Mechanical device. J. Isele. No. 1,396,578; Nov. 8.
Metal articles, Forming. E. J. Paque. No. 1,396,281; Nov. 8.
Metal, Protecting sparking. H. Forcellon. No. 1,396,062; Nov. 8.
Metal screen. W. W. Cole. No. 1,396,164; Nov. 8.
Metal wheel. M. Lachman. No. 1,396,443; Nov. 8.
Metals, Improving ferrous. A. Pacs. No. 1,396,276; Nov. 8.
Metaled-end concrete pipe. C. Meriwether. No. 1,396,185; Nov. 8.
Metering device. T. A. Dickinson. No. 1,396,560; Nov. 8.
Micrometer-gage. E. H. Williams. No. 1,396,614; Nov. 8.
Mill, Grinding-. H. F. Winslow. No. 1,396,152; Nov. 8.
Mold. W. T. Bonner. No. 1,396,158; Nov. 8.
Motor: *See*—
Electric motor. Repulsion-motor.
Induction-motor.
Mowers, Sharpening device for lawn-. W. G. Hill. No. 1,396,430; Nov. 8.
Muffler. W. Krafve. No. 1,396,583; Nov. 8.
Mulsh and making same. C. F. Eckart. No. 1,396,269; Nov. 8.
Neckscarf. A. M. Baherman. No. 1,396,240; Nov. 8.
Nest. A. C. Hitchcock. No. 1,396,482; Nov. 8.
Nest, Trap-. D. E. Cowgill. No. 1,396,407; Nov. 8.
Nest, Trap-. O. Stromborg. No. 1,396,586; Nov. 8.
Non-skid device, Automobile-wheel. A. Carlson. No. 1,396,556; Nov. 8.
Numbering-machine. C. H. Bright, Jr. No. 1,396,248; Nov. 8.
Oil, Apparatus for cracking and distilling. J. T. Fenton. No. 1,396,174; Nov. 8.
Oil-basin. H. D. Palmer. No. 1,396,050; Nov. 8.
Oil-bearing solids, Process and apparatus for treating. J. T. Fenton. No. 1,396,173; Nov. 8.
Oil-burner, Blue-flame. H. Ruppel. No. 1,396,594; Nov. 8.
Oil, gas, and sand separator. D. G. Lorraine. (Reissue.) No. 15,220; Nov. 8.
Oil, Means for separating solid substances from lubricating. F. E. Kaye. No. 1,396,219; Nov. 8.
Oil-tanks, Explosion-hatch for. B. B. Hull. No. 1,396,719; Nov. 8.
Oiling device for fiber silk. J. Jacobs. No. 1,396,120; Nov. 8.
Ore, &c., Apparatus for pulverizing. G. Johnston. No. 1,396,711; Nov. 8.
Ornamental articles, Making. G. Dorno. No. 1,396,267; Nov. 8.
Oven, Collapsible sheet-metal. H. B. Rappotto. No. 1,396,059; Nov. 8.
Osoniser. W. G. Lindemann. No. 1,396,522; Nov. 8.
Package-binder and hooks therefor and record-check. A. A. Gilsson. No. 1,396,190; Nov. 8.
Packing-boxes, Wire-stretcher for. G. Noth. No. 1,396,229; Nov. 8.
Packing, Metallic piston-. H. M. Bramberry. No. 1,396,620; Nov. 8.
Paint, Producing coal-tar. F. G. White. No. 1,396,674; Nov. 8.
Pan: *See*—
Drain-pan.
Pan, Bake-. W. C. Hansen. No. 1,396,684; Nov. 8.
Paper container. G. R. Pean. No. 1,396,252; Nov. 8.
Paper or Mill file. H. Helsman and S. Brainin. No. 1,396,428; Nov. 8.
Paper, Recovering used. R. A. Marr. No. 1,396,227; Nov. 8.
Pen-nib extractor. E. V. Butt. No. 1,396,354; Nov. 8.
Pencil, Lead-. E. S. Shimer. No. 1,396,535; Nov. 8.
Pencils, Attachment for. A. A. Beck. No. 1,396,395; Nov. 8.
Pencils, Attachment to screw-feed. A. Fleming. No. 1,396,710; Nov. 8.
Petroleum, Distilling. E. F. Burch. No. 1,396,249; Nov. 8.
Phonograph-brake. W. C. Teunisz. No. 1,396,471; Nov. 8.
Phonographic-record-cleaning device. L. A. Wellington. No. 1,396,544; Nov. 8.
Phosphates, Treatment of. E. C. Soper. No. 1,396,149; Nov. 8.
Photogrammetric survey and apparatus therefor, Method of. U. Nistri. No. 1,396,047; Nov. 8.
Photographic exposures, Method of and apparatus for designating. H. J. Galesman. No. 1,396,035; Nov. 8.
Picture mechanism, Stereoscopic-motion-. E. B. Moore. No. 1,396,681; Nov. 8.
Piles and the like, Installation of concrete footings for. R. B. Tufts. No. 1,396,542; Nov. 8.
Pin-tongue. J. H. Hennessey. No. 1,396,575; Nov. 8.
Pipe: *See*—
Metaled-end concrete pipe. Shower-pipe.
Pipe-union. L. Hachenberg. No. 1,396,156; Nov. 8.
Piston, Trunk-. P. Challis. No. 1,396,161; Nov. 8.
Piston, Trunk-. P. Challis. No. 1,396,504; Nov. 8.
Plant-stand. D. F. London. No. 1,396,445; Nov. 8.
Planter. W. J. Hall. No. 1,396,683; Nov. 8.
Planter, Wireless corn-. B. Bryntseon. No. 1,396,093; Nov. 8.
Plates and films, Identification of. J. Fried. No. 1,396,415; Nov. 8.
Plow, Tractor-. C. Owens. No. 1,396,049; Nov. 8.
Plug-micrometer. L. G. Iliff. No. 1,396,117; Nov. 8.
Plug, Safety washout-. S. Otis. No. 1,396,659; Nov. 8.
Pneumatic action. W. J. Wedraska. No. 1,396,492; Nov. 8.
Post: *See*—
Tool-post.
Post-card, Novelty. H. O. Rugh. No. 1,396,693; Nov. 8.
Postal and other purposes, Manufacture and production of boxes for. H. Usher and C. H. J. Gooch. No. 1,396,005; Nov. 8.
Poster-frame. W. A. Kilgo. No. 1,396,638; Nov. 8.
Posting apparatus. C. R. Fargo and P. O. Unger. No. 1,396,510; Nov. 8.
Posting device. C. R. Fargo and P. O. Unger. No. 1,396,511; Nov. 8.
Powder, Making propellent. R. G. Woodbridge, Jr. No. 1,396,493; Nov. 8.
Power installation, Marine-. M. Rotter. No. 1,396,287; Nov. 8.
Press: *See*—
Printing-press.
Priming, &c., Pump for. W. J. Rudolph. No. 1,396,529; Nov. 8.
Printing-machines, Feeding mechanism for. A. S. Bullen and C. Jeayes. No. 1,396,622; Nov. 8.
Printing-machines, Inking mechanism for. O. L. Raabe. No. 1,396,655; Nov. 8.
Printing mechanism for listing-machines, &c. Clear-signal-. O. D. Johantgen. No. 1,396,215; Nov. 8.
Printing-plate, Typographic. J. Murray. No. 1,396,653; Nov. 8.
Printing-press. L. Friedman. No. 1,396,182; Nov. 8.
Printing-presses, Distributing-roller for. E. O. Heutschel. No. 1,396,110; Nov. 8.
Propeller. J. S. Funk. No. 1,396,690; Nov. 8.
Propeller-shaft. W. Gloor. No. 1,396,525; Nov. 8.
Protective device. E. E. F. Creighton. No. 1,396,550; Nov. 8.
Protective device. B. L. Stemmons. No. 1,396,538; Nov. 8.
Puller: *See*—
Spike-puller. Stump-puller.
Pulley. J. E. Walling. No. 1,396,606; Nov. 8.

Pulling-over machine. O. Ashton. No. 1,396,005; Nov. 8.
Pulling-over machine. J. T. Lancaster. No. 1,396,131; Nov. 8.
Pump. J. P. T. Davis. No. 1,396,261; Nov. 8.
Pump. L. H. Jensen. No. 1,396,214; Nov. 8.
Pump. W. J. Springer. No. 1,396,296; Nov. 8.
Pump, Air-. E. Warnock. No. 1,396,079; Nov. 8.
Pump, Air-. E. Wright. No. 1,396,494; Nov. 8.
Pump, Deep-oil-well. H. Beloit. No. 1,396,243; Nov. 8.
Pump-plunger. R. E. Carmichael. No. 1,396,714; Nov. 8.
Rack: *See*—
Battery-plate-burning rack Display-rack.
Rack, Display-. C. W. Thompson. No. 1,396,300; Nov. 8.
Radio receiving system. A. N. Goldsmith and J. Weinberger. No. 1,396,571; Nov. 8.
Rail connection. N. S. Kemp and H. J. Kauth. No. 1,396,043; Nov. 8.
Rail-crossing, Shockless. E. L. V. Howell. No. 1,396,656; Nov. 8.
Rail-joint. M. L. Cochran and M. E. Wood. No. 1,396,558; Nov. 8.
Rail-joint. E. F. Levaire. No. 1,396,272; Nov. 8.
Rails, Fastening means for vignole. E. F. Levaire. No. 1,396,271; Nov. 8.
Railing, gate, grille, &c. M. Lachman. No. 1,396,442; Nov. 8.
Railway-crossing gate. S. L. Jones. No. 1,396,635; Nov. 8.
Railway-tie. L. Fleg. No. 1,396,566; Nov. 8.
Railway-switch heater. I. C. Popper. No. 1,396,664; Nov. 8.
Railway-switches, Apparatus for the control of. C. W. Dunham. No. 1,396,562; Nov. 8.
Railway-track construction. P. H. Sampson. No. 1,396,596; Nov. 8.
Range, Combined gas, wood, and coal. G. B. Child. No. 1,396,623; Nov. 8.
Ratchet-jack. R. G. Clark. No. 1,396,253; Nov. 8.
Razor-hone holder. Mirgon. No. 1,396,587; Nov. 8.
Razor, Safety-. E. C. Madden. No. 1,396,645; Nov. 8.
Razor-stropper roll. W. M. Hanson. No. 1,396,424; Nov. 8.
Reel. S. J. Martin. No. 1,396,450; Nov. 8.
Reel. D. Sprague. No. 1,396,236; Nov. 8.
Refrigerating process. A. G. Crawford. No. 1,396,024; Nov. 8.
Refrigerator. A. Nowak. No. 1,396,457; Nov. 8.
Refrigerator and ice-cream freezer, Combined. D. P. Heath. No. 1,396,574; Nov. 8.
Register: *See*—
Cash-register.
Relay. C. Sparks. No. 1,396,672; Nov. 8.
Relieving-machine. F. S. Shields. No. 1,396,292; Nov. 8.
Repulsion-motor. W. C. Korthaus-Altes. No. 1,396,582; Nov. 8.
Riding-head, G. Garrow. No. 1,396,187; Nov. 8.
Rim, Demountable. W. S. Martin. No. 1,396,134; Nov. 8.
Rim, Demountable. F. G. Peace. No. 1,396,589; Nov. 8.
Rims, Tool for demountable. W. H. Baskin. No. 1,396,617; Nov. 8.
Rings with threads, especially for making thread-buttons, Machine for covering. A. Dangl. No. 1,396,626; Nov. 8.
Rock-crusher. J. F. Betchkaw. No. 1,396,016; Nov. 8.
Rod: *See*—
Connecting-rod.
Rod clamp, Polished-. E. P. Weister. No. 1,396,610; Nov. 8.
Rubber boot, shoe, galosh, sandal, &c. W. C. Belknap. No. 1,396,313; Nov. 8.
Rubber compound or other plastic materials, Machine for treating. C. C. Mosher. No. 1,396,138; Nov. 8.
Safety device. F. J. Bohn. No. 1,396,017; Nov. 8.
Sanitary can. H. Schrader. No. 1,396,065; Nov. 8.
Sash fastener, Ventilating-. S. F. Hill and J. W. Cochrane. No. 1,396,205; Nov. 8.
Sash-lock. A. Turney. No. 1,396,478; Nov. 8.
Saw-dressing tool. C. Gustafson. No. 1,396,682; Nov. 8.
Scale, Weighing-. W. S. Smith. No. 1,396,668; Nov. 8.
Scales, Reading device for. G. von Post. No. 1,396,607; Nov. 8.
Scraper. G. E. von Hoffmann. No. 1,396,702; Nov. 8.
Scraper and leveler. G. A. Ghent. No. 1,396,038; Nov. 8.
Screen: *See*—
Metal screen.
Screw jack, Multiple-. J. Coryell. Nos. 1,396,258–9; Nov. 8.
Screws or bolts, Retaining device for. G. W. White. No. 1,396,611; Nov. 8.
Seaming mechanism. J. Peyser. No. 1,396,231; Nov. 8.
Seat-cover, Sanitary. F. M. Vansickle. No. 1,396,480; Nov. 8.
Self serving table. L. P. Bouvier. No. 1,396,246; Nov. 8.
Separating-trap. W. A. Shorb. No. 1,396,384; Nov. 8.
Sewage treatment. W. B. Borst. No. 1,396,397; Nov. 8.
Sewing apparatus, Filled-sack-. F. W. Ostrom and I. F. Webb. No. 1,396,048; Nov. 8.
Sewing machine, Buttonhole-. G. S. Hill. No. 1,396,111; Nov. 8.
Sewing-machines, Loop-taker-actuating mechanism for. P. A. Herr. No. 1,396,040; Nov. 8.
Sewing machines, Thread gripping and cutting device for shoe-. T. H. Seely. No. 1,396,066; Nov. 8.
Sheet-guiding mechanism. S. Birch. No. 1,396,157; Nov. 8.
Sheet material, Cutting blanks from. F. M. Furber. No. 1,396,185; Nov. 8.
Shingle-machine. R. E. Schwars. No. 1,396,468; Nov. 8.
Shock-absorber. O. K. Harley. No. 1,396,573; Nov. 8.
Shock-absorber for automobiles. F. Sackett. No. 1,396,596; Nov. 8.
Shoe-capping last. E. Smiley. No. 1,396,146; Nov. 8.
Shoe-fitting stool. C. A. Davis and H. L. Wolfe. No. 1,396,100; Nov. 8.
Shoe-laces, Tip for. F. L. Smith. No. 1,396,601; Nov. 8.
Shoes, Making. J. A. Kelly. No. 1,396,124; Nov. 8.
Shovel or excavating-machine, Power-. C. Lotte. No. 1,396,375; Nov. 8.
Shower-pipe. A. E. Binns. No. 1,396,092; Nov. 8.
Shutter, Push-button-controlled. G. C. Hoech. No. 1,396,577; Nov. 8.
Shuttle-eye. A. J. Brouillette. No. 1,396,555; Nov. 8.
Sign, Advertising-. A. Schlosser. No. 1,396,467; Nov. 8.
Signal: *See*—
Vehicle-signal.
Signaling device. J. A. Dyblie. No. 1,396,169; Nov. 8.
Signaling device. D. C. Miller. No. 1,396,136; Nov. 8.
Silicon sheets and plates, Making high-. A. Pinkerton. No. 1,396,052; Nov. 8.
Slack-adjuster. C. F. Kahler. No. 1,396,218; Nov. 8.
Slicing machine, Bread-. G. Begschneider. No. 1,396,290; Nov. 8.
Slipper. P. E. Giroux. No. 1,396,419; Nov. 8.
Snowplow. J. V. Maryland. No. 1,396,377; Nov. 8.
Softening apparatus. M. Brock. No. 1,396,160; Nov. 8.
Sorting-machine. L. L. Ladd. No. 1,396,221; Nov. 8.
Sound-selecting apparatus. W. H. Bristol. No. 1,396,402; Nov. 8.
Sound-transmitting apparatus. E. H. Foley. No. 1,396,178; Nov. 8.
Spectacle-frame. T. B. Jebb. No. 1,396,213; Nov. 8.
Speed-changing mechanism. W. I. Wheeler. No. 1,396,151; Nov. 8.
Speedometer. Magnetic. A. C. Wood. No. 1,396,061; Nov. 8.
Spike-puller. F. Woodcock. No. 1,396,615; Nov. 8.
Spinning-frames, Drawing-roll mechanism for. C. H. Johnson. No. 1,396,122; Nov. 8.
Spool. D. V. Vaughan. No. 1,396,481; Nov. 8.
Spotlight construction. E. W. Reiber. No. 1,396,234; Nov. 8.
Sprayer, Air-blast. A. B. Champlin. No. 1,396,319; Nov. 8.
Spreading device. D. Garst. No. 1,396,106; Nov. 8.
Spring: *See*—
Vehicle-spring.
Spring suspension. A. E. Frey. No. 1,396,365; Nov. 8.
Stanchion, Cattle-. A. Fritz. No. 1,396,034; Nov. 8.
Stand: *See*—
Display-stand. Plant-stand.
Starting and lighting apparatus. V. G. Apple. No. 1,396,004; Nov. 8.
Steam-trap. H. J. Hinchey. No. 1,396,206; Nov. 8.
Steam-whistle-operating mechanism. T. J. Converse. No. 1,396,096; Nov. 8.
Steering-column. B. J. Grigsby. No. 1,396,195; Nov. 8.
Stitching-guide. F. A. McDonald. No. 1,396,447; Nov. 8.
Stone, Machine for dressing. J. M. Rice. No. 1,396,144; Nov. 8.
Stone, Treating natural. F. P. Jackson. No. 1,396,118; Nov. 8.
Storage battery. R. G. Fear. No. 1,396,172; Nov. 8.
Storage batteries, Controlling system for. C. E. Beach. No. 1,396,242; Nov. 8.
Storage batteries, Separator for. C. F. and I. C. Williams. No. 1,396,390; Nov. 8.
Stoves, furnaces, &c., Oil-burner for. J. T. Dalcher. No. 1,396,166; Nov. 8.
Stoves, Making firebacks for gas-. A. H. Humphry. No. 1,396,200; Nov. 8.
Stoves, Thermostat fuel-regulating device for gas-. B. E. Meacham and C. Munsuer. No. 1,396,706; Nov. 8.
Straightedge. C. L. Neumeister. No. 1,396,274; Nov. 8.
Strap-wrench. W. Dufford. No. 1,396,411; Nov. 8.
Straw-delivering mechanism. J. J. Mouawad. No. 1,396,720; Nov. 8.
Stretcher. M. V. Hubbard. No. 1,396,208; Nov. 8.
Stump-puller. J. W. Nisarod. No. 1,396,657; Nov. 8.
Styli and products thereof, Making. B. E. Eldred. No. 1,396,412; Nov. 8.
Sulfur, Purifying. E. F. White. No. 1,396,485; Nov. 8.
Switch: *See*—
Electric signal-switch. Trolley-wire switch.
Switch-lock. G. A. Cokely and M. D. Crawford. No. 1,396,095; Nov. 8.
Synchronized entertainment apparatus. W. H. Bristol. No. 1,396,401; Nov. 8.
Table: *See*—
Self-serving table.
Table slide, Extension-. S. Galerkin. No. 1,396,036; Nov. 8.
Tables, Round rim-bound top for. C. O. Breeze. No. 1,396,554; Nov. 8.
Tabular device, Adjustable. J. S. Holm. No. 1,396,113; Nov. 8.
Tagging-machine. V. F. Carl. No. 1,396,406; Nov. 8.
Talking-machine. C. B. Woods. No. 1,396,083; Nov. 8.
Tanks, Gage or indicator for fluid-holding. A. H. Miller and R. E. McCaffrey. No. 1,396,273; Nov. 8.

Target apparatus. C. B. Carter. No. 1,396,606; Nov. 8.
Telephone-transmitters, Sanitary mouthpiece for. W. H. Palmer. No. 1,396,600; Nov. 8.
Test unit, Automatic. M. G. Beehler. No. 1,396,312; Nov. 8.
Thread-cutting apparatus. W. C. Hafemeister. No. 1,396,572; Nov. 8.
Three-plate mold. G. A. Stuber. No. 1,396,288; Nov. 8.
Tie: *See*—
Railway-tie.
Tie and rail-fastener. J. O. Klein. No. 1,396,521; Nov. 8.
Tile block. M. Dochnal. No. 1,396,365; Nov. 8.
Tillage, Soil-. S. H. Garst. No. 1,396,497; Nov. 8.
Timepieces, &c., Means for regulating. V. S. Hardey. No. 1,396,196; Nov. 8.
Tire alarm, Flat-. K. Riddle. No. 1,396,224; Nov. 8.
Tire-chain fastener. A. W. Edgeberg. No. 1,396,163; Nov. 8.
Tire filler, Automobile-. S. D. Mills and H. Paul. No. 1,396,648; Nov. 8.
Tire making and repairing device. W. M. Jones, Jr. No. 1,396,217; Nov. 8.
Tire, Pneumatic. E. Brewer. No. 1,396,097; Nov. 8.
Tire, Pneumatic. W. H. Emene. No. 1,396,170; Nov. 8.
Tire, Pneumatic. W. S. McCleery. No. 1,396,515; Nov. 8.
Tire pressure-gage, Pneumatic. H. F. Neptune. No. 1,396,141; Nov. 8.
Tire-removing apparatus, Pneumatic-. H. A. Miller. No. 1,396,707; Nov. 8.
Tires, Puncture-proof-tube protector for automobile-. V. Harvey and C. D. Harding. No. 1,396,200; Nov. 8.
Tobacco-can, Pocket. R. S. Losee. No. 1,396,226; Nov. 8.
Toad-post. G. G. Porter. No. 1,396,461; Nov. 8.
Tooth, Artificial. A. H. Sibley. No. 1,396,071; Nov. 8.
Toothbrush-head. L. Bigbee. No. 1,396,630; Nov. 8.
Tow-lines, Hook or coupling for. O. D. Curtis. No. 1,396,096; Nov. 8.
Tug. W. B. Scott. No. 1,396,289; Nov. 8.
Toy cradle-bed wagon. K. Halm. No. 1,396,039; Nov. 8.
Toy, Submersible. E. Molloy. No. 1,396,250; Nov. 8.
Toy theater. B. & S. Mecca. No. 1,396,460; Nov. 8.
Toy, Walking. R. I. Armprieston. No. 1,396,067; Nov. 8.
Toy, Wheeled. I. Grimsley. No. 1,396,140; Nov. 8.
Track-clearing equipment. L. P. Chiesdon. No. 1,396,258; Nov. 8.
Track-sander. J. H. Watters. No. 1,396,307; Nov. 8.
Tractor-binder hitch. J. W. Gamble. (Reissue.) No. 15,219; Nov. 8.
Tractor, Flat-wheel. E. J. Gould. No. 1,396,194; Nov. 8.
Tractor-link. C. Horabeck. No. 1,396,285; Nov. 8.
Transfer process. A. L. de Boeij. No. 1,396,469; Nov. 8.
Trap: *See*—
Drain-valve trap. Steam-trap.
Separating-trap.
Trap, Spare. J. O. Fuller. No. 1,396,506; Nov. 8.
Tray, Ornamental. G. H. Weinrich. No. 1,396,464; Nov. 8.
Tricycle, Rocking. N. Chapdelaine. No. 1,396,595; Nov. 8.
Trolley-retrievers for street-cars. W. R. Hampden. No. 1,396,267; Nov. 8.
Trolley-track hanger. E. Fechner and G. Van Deventer. No. 1,396,564; Nov. 8.
Trolley-wire switch. M. N. Mikulic. No. 1,396,690; Nov. 8.
Trousers and pants. L. Friedman. No. 1,396,181; Nov. 8.
Trucks, Bed-hinge for automobile-. C. H. Cromwell. No. 1,396,678; Nov. 8.
Tube deflator, Inner-. G. S. Meller. No. 1,396,646; Nov. 8.
Tubes, Mandrel for making inner. F. M. Reessing. No. 1,396,145; Nov. 8.
Tufts and articles derived therefrom, Manufacturing. T. A. Bowers. No. 1,396,189; Nov. 8.
Turbine, Water-. M. Haeberlein. No. 1,396,327; Nov. 8.
Typographical machine. D. S. Kennedy. Nos. 1,396,128–6; Nov. 8.
Typewriter. A. King. No. 1,396,329; Nov. 8.
Typewriting and computing machine, Combined. B. C. Stickney. No. 1,396,349; Nov. 8.
Universal joint. N. Lee. No. 1,396,132; Nov. 8.
Valve, Automatic. M. J. Barrett. No. 1,396,394; Nov. 8.
Valve, Cleaning-door and chimney-. W. T. Clark. No. 1,396,676; Nov. 8.
Valve, Flushing-. R. A. Brooks. No. 1,396,661; Nov. 8.
Valve for washing tanks. H. N. Libbey. No. 1,396,133; Nov. 8.
Valve drain-trap. E. S. Stotts. No. 1,396,677; Nov. 8.
Varnish-catcher. V. Kukuka. No. 1,396,595; Nov. 8.
Varnish, paint, &c., Receptacle for. P. W. Plane. No. 1,396,053; Nov. 8.
Vehicle-body bearing. E. A. Laughlin. Nos. 1,396,687–9; Nov. 8.
Vehicle, Combined motor and animal-draft. J. Morrison. No. 1,396,652; Nov. 8.
Vehicle driving mechanism, Motor-. J. A. Stumpenhorst. No. 1,396,674; Nov. 8.
Vehicle-fender mounting. G. G. Behn. No. 1,396,351; Nov. 8.
Vehicle, Seaman and toy. T. B. Keogh and L. F. Caumont. No. 1,396,432; Nov. 8.
Vehicle-signal. H. E. Hunt. No. 1,396,212; Nov. 8.
Vehicle-spring. W. M. Beatty. No. 1,396,549; Nov. 8.
Vehicle spring-suspension. W. B. Lowe. No. 1,396,644; Nov. 8.
Vehicle steering mechanism. L. C. VanderHip. No. 1,396,675; Nov. 8.
Vehicles, Weather-stripping for. F. H. Wittern. No. 1,396,153; Nov. 8.
Vehicle-wheel. S. M. Perry. No. 1,396,288; Nov. 8.
Vehicles, Axle construction for motor-. G. W. Dunham and L. C. Freeman. No. 1,396,102; Nov. 8.
Vehicles, Locking device for. R. Sethwald. No. 1,396,067; Nov. 8.
Vehicles, Runner attachment for motor-. J. B. Ollivier. No. 1,396,623; Nov. 8.
Vehicles, Safety-stop for motor-. J. G. Clark. No. 1,396,356; Nov. 8.
Vehicles, Speed-indicator for motor-. F. Gardner. No. 1,396,156; Nov. 8.
Ventilating-cupola for barns and the like. H. Silver. (Reissue.) No. 15,223; Nov. 8.
Vibrating motor and method, Constant-speed. L. B. McDonald. No. 1,396,335; Nov. 8.
Vibration motor and method, Variable amplitude of. L. B. McDonald. No. 1,396,337; Nov. 8.
Voltage-controlling mechanism. P. Bessu. No. 1,396,552; Nov. 8.
Voltage of the current supplied therefrom, Electrical transformer for regulating or varying the. F. E. Berry. No. 1,396,551; Nov. 8.
Vulcanizer. H. A. Sheets, Jr. No. 1,396,069; Nov. 8.
Vulcanizer-igniter. H. A. Sheets, Jr. No. 1,396,068; Nov. 8.
Wall-anchor. N. K. Bowman. No. 1,396,206; Nov. 8.
Washing and rinsing machine. A. J. Fisher. No. 1,396,244; Nov. 8.
Washing machine, Can-. C. F. McEwan. No. 1,396,516; Nov. 8.
Washing-machine. A. E. Mueller. No. 1,396,456; Nov. 8.
Washing machine, Clothes-. A. B. Roever. No. 1,396,465; Nov. 8.
Washing machine, Disk-. A. B. Roever. No. 1,396,466; Nov. 8.
Washing-machines, Power-drive for. J. J. Wood. No. 1,396,082; Nov. 8.
Water-flow device. R. W. Andrews. No. 1,396,209; Nov. 8.
Water-heater, Electric. R. S. Jacobsen. No. 1,396,121; Nov. 8.
Waterproof cements, concretes, and mortars, Composition for and the production of. H. C. Badder. No. 1,396,546; Nov. 8.
Waterproof fiber tube and making same. F. A. Birmingham, G. A. Richter, W. B. Van Arsdel, and D. H. White. Nos. 1,396,621; Nov. 8.
Waterproof fibrous material and making same. G. A. Richter, W. B. Van Arsdel, and D. H. White. No. 1,396,660; Nov. 8.
Wave-operated device. P. J. Kilcullen. No. 1,396,589; Nov. 8.
Water-repellent composition. G. A. Richter, W. B. Van Arsdel, and D. H. White. No. 1,396,627; Nov. 8.
Wedges, Method and machine for producing metallic. P. W. Jones. No. 1,396,042; Nov. 8.
Well-drill wrench. W. H. Ellinger. No. 1,396,099; Nov. 8.
Well-drilling apparatus. G. S. Minshall. No. 1,396,649; Nov. 8.
Wheel: *See*—
Locomotive driving-wheel. Vehicle-wheel.
Metal wheel.
Wheel. M. B. Giberson. No. 1,396,167; Nov. 8.
Wheel-anchor, Adjustable. E. S. Stotts. No. 1,396,076; Nov. 8.
Wheel construction. A. H. Anthony and C. E. Nordfeldt. No. 1,396,190; Nov. 8.
Wheel, Resilient. J. Provencal. No. 1,396,223; Nov. 8.
Winding device. H. P. Lee. No. 1,396,444; Nov. 8.
Windings, Making. C. W. Francis. No. 1,396,033; Nov. 8.
Window-closing device, Automatic. R. G. Cater. No. 1,396,253; Nov. 8.
Window construction. J. H. and J. E. Creek. No. 1,396,359; Nov. 8.
Window-lock. C. E. Barbier. No. 1,396,496; Nov. 8.
Wire-stretcher. M. E. Buck. No. 1,396,502; Nov. 8.
Wire-stretcher. A. L. Sanderson. No. 1,396,062; Nov. 8.
Wire trays, Supporting-leg for superposing. F. M. Snyder. No. 1,396,148; Nov. 8.
Wire-twisting device. H. Anderson. No. 1,396,013; Nov. 8.
Work-holder. J. W. Wagner. No. 1,396,302; Nov. 8.
Work-support. G. Godde and F. L. Mashmann. No. 1,396,192; Nov. 8.
Wrench: *See*—
Quick-adjusting wrench. Strap-wrench.
Screw-cap wrench. Well-drill wrench.
Wrench. C. C. Reaves. No. 1,396,590; Nov. 8.
Wrench. E. C. and W. H. Thompson. No. 1,396,287; Nov. 8.
Wrench attachment. P. Ettinger. No. 1,396,171; Nov. 8.
Wrench, Double-grip-socket. W. D. Reist. No. 1,396,501; Nov. 8.
Wrench, Quick-adjusting. G. Hoffmann. No. 1,396,576; Nov. 8.
Wrench, Screw-cap. A. Stoutland. No. 1,396,298; Nov. 8.
Zero-setting mechanism. N. White. No. 1,396,612; Nov. 8.

ALPHABETICAL LIST OF DESIGNS.

Amusement device. C. E. Frost. No. 59,582; Nov. 8.
Automobile-steering-column lock. F. C. Copeland. No. 59,580; Nov. 8.
Bedstead end frame. F. Anderson. Nos. 59,572–3; Nov. 8.
Bedstead-frame. C. A. Stuart. Nos. 59,609–10; Nov. 8.
Bedstead-frames, Grille for. C. A. Stuart. No. 59,608; Nov. 8.
Book, Loose-leaf. F. C. Skiles. No. 59,606; Nov. 8.
Brassière-girdle, Combination. F. L. Bannihr. No. 59,574; Nov. 8.
Cabinet. E. P. Kellogg. No. 59,600; Nov. 8.
Can or similar receptacle, Sifter-top. W. H. Green. Nos. 59,583–7; Nov. 8.
Candy, Package containing. A. G. Kilgore. No. 59,601; Nov. 8.
Chest. F. Tockes. No. 59,614; Nov. 8.
Clothes-lifting stick. N. T. Thornton and E. C. Dunn. No. 59,613; Nov. 8.
Easel. R. Spencer. No. 59,607; Nov. 8.
Emblem, pin, button, or similar article. E. C. Heathcote. Nos. 59,589–91; Nov. 8.
Glove. H. A. Taylor. No. 59,611; Nov. 8.
Handbag. M. A. Boething. No. 59,577; Nov. 8.
Ice-cream cone. T. F. Lawton. No. 59,603; Nov. 8.
Jewelry-box. F. M. Wright. Nos. 59,615–6; Nov. 8.
Lamp-base. O. J. Doerre. No. 59,581; Nov. 8.
Lamp-shade, Panel for a. L. L. Katzenstein. No. 59,599; Nov. 8.
Lamp-support. E. F. McCarthy. No. 59,604; Nov. 8.
Lighting-fixture. R. T. Hughes. Nos. 59,593–4; Nov. 8.
Lighting-fixture shade. W. T. Blackwell. No. 59,576; Nov. 8.
Microscope and mirror, Combined. J. H. A. Carr. No. 59,579; Nov. 8.
Pin-holder. L. Z. Gunn. No. 59,588; Nov. 8.
Plier-handle, Ornamentation of a. A. A. Kraeuter. No. 59,602; Nov. 8.
Powder container or similar receptacle. C. S. Humphrey. No. 59,595; Nov. 8.
Powder-container tops, Slip-cap for. F. S. Hyatt. Nos. 59,596–7; Nov. 8.
Ring, Finger-. F. E. Peloquin. No. 59,605; Nov. 8.
Shrine. F. Bissonette. No. 59,575; Nov. 8.
Toy, Child's wheel. J. C. Juthe. No. 59,598; Nov. 8.
Toy dog. A. M. Burton. No. 59,578; Nov. 8.
Vaporizer for internal-combustion engines. J. H. Hopkins. No. 59,592; Nov. 8.
Watch-chain. J. T. Tennefass. No. 59,612; Nov. 8.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Abrasive products. Norton Company. No. 148,188; Nov. 8.
Alcohol for bathing, massage, &c., Composition containing. U. S. Industrial Alcohol Co. Nos. 148,287-8; Nov. 8.
Anesthetic compound. Abbott Laboratories. No. 147,893; Nov. 8.
Anilin and other dyestuffs and related products. Dicks, David Co. No. 147,964; Nov. 8.
Aperient; Saline. J. C. Eno, Limited. No. 148,010; Nov. 8.
Aspirin tablets. J. C. Patterson. No. 148,204; Nov. 8.
Automobile accessories. Haines Manufacturing Corporation. No. 148,064; Nov. 8.
Automobile accessories. Owl Auto Products Company. No. 148,195; Nov. 8.
Automobile direction-signals, Mechanically-actuated. P.A.T-S Manufacturing Company. No. 148,203; Nov. 8.
Automobiles. Dorris Motor Car Company. No. 148,327; Nov. 8.
Bait, Artificial. S. Allcock & Co. No. 147,896; Nov. 8.
Battery-boxes, switchboards, generators. Volta Battery Company. No. 148,298; Nov. 8.
Battery-separators. Indianapolis Separator Company. Nos. 148,087-8; Nov. 8.
Batteries and parts thereof, Electric. W. T. Johnston. No. 148,096; Nov. 8.
Beer and malt tonic, Near. Primalt Products Company. No. 148,216; Nov. 8.
Beer, Near. White Eagle Brewing Company. No. 148,312; Nov. 8.
Beeswax substitute. Cantol Wax Company. No. 147,949; Nov. 8.
Belt-dressing compositions. L. M. Fisher. No. 148,024; Nov. 8.
Belting, Leather. Kistler Leather Company. No. 148,112; Nov. 8.
Beverage, Maltless. Cleveland & Sandusky Brewing Company. No. 147,964; Nov. 8.
Blank books and forms, Certain. National Thrift Association. No. 148,176; Nov. 8.
Blank books and indexes. National Blank Book Co. No. 148,173; Nov. 8.
Blankets, Cotton bed-. Esmond Mills. No. 148,012; Nov. 8.
Blouses, dresses, skirts, suits, and bloomers, Ladies' and children's. Straus, Boyer & Straus. No. 148,272; Nov. 8.
Blue, Laundry. W. E. Spence. No. 148,267; Nov. 8.
Boning, steels, and staying materials for corsets, &c. Mightybone Corporation of New York. No. 148,164; Nov. 8.
Books, Printed. J. F. Draughon. No. 147,998; Nov. 8.
Boxes and merchandise-bins, Tool and deposit. Fire-Proof Furniture and Construction Company. No. 148,021; Nov. 8.
Braid, Silk skirt-. Marshall Field & Company. No. 148,157; Nov. 8.
Braid for crocheting and knitting. Castle Braid Company. No. 147,952; Nov. 8.
Bread. Doctors' Essential Foods Co. No. 147,993; Nov. 8.
Bread. G. H. Handley. No. 148,067; Nov. 8.
Brooms. Griffin Broom Company. No. 148,332; Nov. 8.
Brushes, Cloth, bonnet, hat, and hair. Samstag & Hilder Bros. No. 148,249; Nov. 8.
Brushes, Floor-. W. N. Lewis. No. 148,324; Nov. 8.
Building-blocks. F. A. Noullet. No. 148,189; Nov. 8.
Butter-mixers, &c. Sanitary Novelty Company. No. 148,251; Nov. 8.
Cake with filler of sugar, cream, Sandwich-. Perfection Biscuit Company. No. 148,209; Nov. 8.
Candies, Chocolate. Riesener Chocolate Co. No. 148,236; Nov. 8.
Candy. Alpine Chocolate Company. No. 147,897; Nov. 8.
Candy. Pirika Chocolate Co. No. 148,213; Nov. 8.
Candy. Rice Chocolate Company. No. 148,284; Nov. 8.
Candy. Robertson & Watson. No. 148,238; Nov. 8.
Candy, Chocolate. E. Greenfield's Sons. No. 148,061; Nov. 8.
Candy, Chocolate. Halligan Candy Company. No. 148,066; Nov. 8.
Candy, Chocolate. Pig & Whistle Company. No. 148,211; Nov. 8.
Candy, chocolates, and candy bars, Assorted hard. Palmer Candy Co. No. 148,196; Nov. 8.
Candy suckers. H. W. Faulkner. No. 148,016; Nov. 8.
Canned berries and fruit. R. T. Carpp. No. 148,243; Nov. 8.
Canned fish. A/S Trondhjem Canning and Export Co. No. 148,283; Nov. 8.
Canned fruits and vegetables. E. Kirsten. No. 148,111; Nov. 8.
Canned fruits and vegetables. Thomas-Bady Company. No. 148,282; Nov. 8.
Canned salmon. Isaard Company. No. 148,095; Nov. 8.
Carpets and rugs, Wilton. Hardwick & Magee Company. No. 148,333; Nov. 8.
Casters for furniture. Faultless Caster Co. No. 148,018; Nov. 8.
Castings and forgings, Steel. Argos Steel Products Corporation. No. 147,999; Nov. 8.
Cattle, calves, swine, goats, sheep, butter, and milk, Live. J. Brecchand. No. 147,937; Nov. 8.
Cement, Transparent. Highland Manufacturing Co. No. 148,076; Nov. 8.
Certain construction materials. Fairbanks Co. No. 148,013; Nov. 8.
Check and bank books, checks, drafts, bills, notes. Bankers Publicity Company. No. 147,917; Nov. 8.
Checks, Door-. Michigan Metal Products Company. No. 148,162; Nov. 8.
Cheese. E. W. Coon. No. 147,970; Nov. 8.
Cheese, Full-cream. Jacob E. Decker & Sons. No. 147,979; Nov. 8.
Chemical preparations, Certain. New Jersey Zinc Company. No. 148,184; Nov. 8.
Chocolate. Josephine Chocolates Limited. No. 148,101; Nov. 8.
Chocolate. Klein Chocolate Company. Nos. 148,113-14; Nov. 8.
Chocolate, cocoa-powder, and cocoa-butter. Page & Shaw. No. 148,197; Nov. 8.
Chocolate creams. Vincennes Candy Company. No. 148,295; Nov. 8.
Chocolates, hard candies, and glaced fruits. Continental Candy Mfg. Co. No. 147,968; Nov. 8.
Cleaning fluids, black-leather polish, auto-top dressing. E. K. Lincoln. No. 148,139; Nov. 8.
Cleaning-powders and soap-detergents, glass-powder, &c. Thos. Hubbuck & Son. No. 148,082; Nov. 8.
Cleanser for fabrics, gloves, &c. J. H. Croxton. No. 147,976; Nov. 8.
Cleanser, sanitary dish-washing compounds, soap flakes, &c. Citizens Wholesale Supply Company. No. 147,961; Nov. 8.
Cleansing compound for cleaning and restoring color to oriental rugs, clothing, &c. M. McDermott. No. 148,149; Nov. 8.
Coal, Bituminous. Raleigh Smokeless Fuel Company. No. 148,224; Nov. 8.
Coats and suits for men and women. Angora Specialty Company, Inc. No. 147,906; Nov. 8.
Cocoanut-oil, Edible. Procter and Gamble Company. No. 148,218; Nov. 8.
Coffee. Fort Smith Coffee Company. No. 148,029; Nov. 8.
Coffee. Pearl Coffee Company. No. 148,207; Nov. 8.
Coffee. H. W. Tucker. No. 148,284; Nov. 8.
Coffee and tea. Wabash Baking Powder Company. No. 148,299; Nov. 8.
Compound for the stomach and liver, kidneys, and blood, Vegetable. C. W. McKeough. No. 148,151; Nov. 8.
Construction machinery and equipment. Equipment Corporation of America. No. 148,011; Nov. 8.
Cooking utensils, Cast, pressed, and spun aluminum. Western Aluminum Manufacturing Company. No. 148,309; Nov. 8.
Cooling, soothing, antiseptic preparation for external use. A. S. Sweet. No. 148,277; Nov. 8.
Corn remedy. J. J. Williams. No. 148,313; Nov. 8.
Corset-boning. Crown Corset Company. No. 147,975; Nov. 8.
Corsets. Lorette Corset Co. No. 148,146; Nov. 8.
Corsets and brassières. American Lady Corset Co. No. 147,902; Nov. 8.
Cotton dress fabrics. Marshall Field & Company. No. 148,156; Nov. 8.
Cotton piece goods. American Bleached Goods Company. No. 147,900; Nov. 8.
Cotton piece goods. Armstrong, Sagar & Co. No. 147,910; Nov. 8.
Cotton piece goods. M. H. Gilberg & Co. No. 148,047; Nov. 8.
Cotton piece goods. Lonsdale Company. No. 148,144; Nov. 8.
Cotton piece goods. Taylor, Clapp & Beall. No. 148,341; Nov. 8.
Cotton piece goods, Woven. Neuss, Hesslein & Co. No. 148,179; Nov. 8.
Crackers and biscuits, Soda. Famous Biscuit Company. No. 148,328; Nov. 8.
Crystalline malt extract. Wander Company. No. 148,301; Nov. 8.
Culverts, well-casings, flood-gates, &c. Wheeling Corrugating Company. No. 148,310; Nov. 8.
Cut-outs and pedal for cut-outs and the like. N. A. Petty Company. No. 148,339; Nov. 8.
Cylinder-grinding compound. Lap-In Compound Company. No. 148,129; Nov. 8.
Dehydrated and concentrated citrus fruits. C. H. Johnson. No. 148,099; Nov. 8.

Detergent and polishing materials. Chemical Utilities Company. No. 147,955; Nov. 8.
Dolls. M. B. Moran. No. 148,168; Nov. 8.
Dolls, Rag. J. E. Greene. No. 148,060; Nov 8.
Dress-shields and diaper-supporters, Armpit. M. S. George. No. 148,046; Nov. 8.
Dresses. Guy D. Slason Company. No. 148,249; Nov. 8.
Dresses, Wedding and evening. F. Schneider. No. 148,254; Nov. 8.
Drills, Cotton. Neuss, Hesslein & Co. No. 148,180; Nov. 8.
Dyestuffs. Cincinnati Chemical Works. No. 147,957; Nov. 8.
Electric-current rectifiers. Forest Electric Co. No. 148,028; Nov. 8.
Electric-light fixtures for sewing-machines. Durbee-Davis Manufacturing Company. No. 148,000; Nov. 8.
Electrical apparatus. Globe Electric Company. No. 148,050; Nov. 8.
Electrical apparatus, Certain. Metropolitan-Vickers Electrical Company. No. 148,161; Nov. 8.
Electrical apparatus, Certain. Overseas Motor Service Corporation. No. 148,194; Nov. 8.
Electrical-resistance elements. H. Reisinger. No. 148,230; Nov. 8.
Engine-cylinder dressers. Stroberger and Lee. No. 148,273; Nov. 8.
Engines, Internal-combustion. Cleveland Tractor Company. No. 147,965; Nov. 8.
Envelops, Merchandise-. A. Hern. No. 148,074; Nov. 8.
Fabric towels. Cannon Mfg. Co. No. 147,948; Nov. 8.
Feed, Chicken. W. M. Cosby Flour & Grain Co. No. 148,326; Nov. 8.
Fertilizers. Osias Karp & Gustav Velner-Cassel. No. 148,193; Nov. 8.
Fire-extinguishers. Foamite Firefoam Company. No. 148,027; Nov. 8.
Fish, Canned. N. Abramovitz & Co. No. 147,894; Nov. 8.
Fish, Pickled, dried, &c. Kosilisch & Portmann. No. 148,117; Nov. 8.
Flasks, Pocket-. Woods & Chatellier. No. 148,219; Nov. 8.
Flavor used in browning any food. T. G. Lauritsen. No. 148,130; Nov. 8.
Flour, and particularly self-rising wheat-flour, Wheat-. City Mill Company. No. 147,962; Nov. 8.
Flour and rolled oats, Wheat-. Quaker Oats Company. No. 148,222; Nov. 8.
Flour, Kansas hard-wheat. Lindsborg Milling Elevator Co. No. 148,140; Nov. 8.
Flour, Wheat-. American Levant Syndicate. No. 147,983; Nov. 8.
Flour, Wheat-. Clemens & Co. No. 147,969; Nov. 8.
Flour, Wheat-. Gallatin Valley Milling Company. Nos. 148,034-42; Nov. 8.
Flour, Wheat-. Washburn-Crosby Company. No. 148,202; Nov. 8.
Foods, Cereal breakfast. United Cereal Mills. No. 148,236; Nov. 8.
Foods, Prepared stock. Capitol Products Company. No. 147,950; Nov. 8.
Foot-powder. T. E. Flint. No. 148,026; Nov. 8.
Foot-powder. M. Tanaki. No. 148,279; Nov. 8.
Fruits, Dried and canned. O. A. Harlan & Co. No. 148,066; Nov. 8.
Fruits, Fresh citrus. Chester C. Feagate Co. No. 148,030; Nov. 8.
Fruits, Fresh citrus. Orlando Citrus Growers Association. No. 148,191; Nov. 8.
Furnaces and ranges, Warm-air, coal, wood, gas, and oil. Graf Furnace Co. No. 148,057; Nov. 8.
Furniture and house-furnishing goods, &c. Wohlfarth & Koos Co. No. 148,312; Nov. 8.
Furniture-polish. J. Burkey. No. 147,946; Nov. 8.
Fuse cut-outs, conduit-bushings, switch-boxes, &c. Multi Electrical Mfg. Company. No. 148,169; Nov. 8.
Garment-fasteners, needles, pins. Waldes & Co. No. 148,304; Nov. 8.
Gasolene, kerosene, lubricating oils and greases. Liberty Oil Company. No. 148,123; Nov. 8.
Grain and horse feed. E. Redd. No. 148,286; Nov. 8.
Gum, Chewing-. Goudey Gum Co. The. No. 148,056; Nov. 8.
Hair-curlers. B. E. Beadle. No. 147,920; Nov. 8.
Hair-grower. H. Jones. No. 148,100; Nov. 8.
Hair-nets. Crest Net Company. No. 147,974; Nov. 8.
Hair-nets. New York Merchandise Company. No. 148,186; Nov. 8.
Hair-nets. I. W. Rice. No. 148,235; Nov. 8.
Hair-nets. D. Tettelbaum. No. 148,280; Nov. 8.
Hair-nets, ribbons, handkerchiefs, veils. A. C. Fischer. No. 148,023; Nov. 8.
Hairpins. Pacific Novelty Company. No. 148,196; Nov. 8.
Hair-tonic. J. S. Livesay. No. 148,143; Nov. 8.
Hair-tonic. Potentia Company. No. 148,215; Nov. 8.
Halters, surcingles, girths, &c. Russell Manufacturing Company. No. 148,248; Nov. 8.
Hammocks. I. E. Palmer Co. No. 148,199; Nov. 8.
Hampers, waste-baskets, &c., Knockdown clothes-. C. H. Smith. No. 148,274; Nov. 8.
Handkerchiefs. Cluett, Peabody & Co. No. 147,966; Nov. 8.
Hatchets. Winchester Repeating Arms Co. No. 148,314; Nov. 8.
Hatpins. J. Brandt. No. 147,986; Nov. 8.
Hats and caps. Modern Cap Mfg. Company. No. 148,166; Nov. 8.
Honey, orange jelly and jam, &c. M. H. Schwinger. No. 148,256; Nov. 8.
Hose-clamps. C. Vitek. No. 148,297; Nov. 8.
Hosiery. J. C. Boesing. No. 147,934; Nov. 8.
Hosiery. King & Company. No. 148,300; Nov. 8.
Hosiery. A. V. Victorius & Company. No. 148,293; Nov. 8.
Hosiery. Watts, Ritter & Company. No. 148,303; Nov. 8.
Hosiery, knit underwear, sweaters. A. Kobb. No. 148,116; Nov. 8.
Hosiery, Ladies'. Chipman Knitting Mills. No. 147,956; Nov. 8.
House organ published monthly. J. G. Brill Company. No. 147,938; Nov. 8.
Hydraulic transmissions. W. Ferris. Nos. 148,019-20; Nov. 8.
Induction apparatus, Stationary. General Electric Company. No. 148,044; Nov. 8.
Insect-powder. A. J. Archibald Co. No. 147,906; Nov. 8.
Insecticide, germicide, and antiseptic. S. E. Osborne. No. 148,188; Nov. 8.
Insoling, Fabricated. Frank W. Whitcher Company. No. 148,311; Nov. 8.
Jewelry and precious-metal ware. S. M. Einstein. No. 148,005; Nov. 8.
Jewelry and precious-metal ware. J. Vander Zanden. No. 148,124; Nov. 8.
Jewelry, Certain. L. H. Lewis Company. No. 148,137; Nov. 8.
Johnson, Chester H., Anaheim, Calif. Dehydrated and concentrated citrus fruits. No. 148,099; Nov. 8.
Knitted and textile underwear and hosiery. Robert Reis & Co. No. 148,220; Nov. 8.
Knitting-needles, Flexible. W. H. Brown. No. 147,940; Nov. 8.
Lace, Shoe-. Providence Braid Company. No. 148,219; Nov. 8.
Lacing tips, Shoe and corset. Joslin Mfg. Co. No. 148,102; Nov. 8.
Lacings, galloons, &c., Shoe, corset, underwear, and blouse. Glencairn Mfg. Co. No. 148,049; Nov. 8.
Lamp guards, Electric-. McGill Manufacturing Co. No. 148,150; Nov. 8.
Lamp-sockets. Aluminium-Walzwerke A.-G. No. 147,898; Nov. 8.
Lamps, Arc and incandescent electric. General Lamp & Motor Company. No. 148,045; Nov. 8.
Lathes and automatic lathes, parts thereof, and tools for said lathes. A. Becchler. No. 147,922; Nov. 8.
Lathes, planers, slotters, boring-mills, &c. Manning, Maxwell & Moore. No. 148,155; Nov. 8.
Lead-pencils and magazine lead-pencils. Cartier, Inc. No. 147,951; Nov. 8.
Leather-dressings and metal-polishing materials. Kepec Company. No. 148,106; Nov. 8.
Leather soft, flexible, and pliable, Compound for rendering. Chas. W. Young & Co. No. 148,321; Nov. 8.
Leather, Sole-. Oak Chrome & Stone Chrome Leather Co. No. 148,190; Nov. 8.
Liver-pills. T. McCarthy. No. 148,148; Nov. 8.
Lotion, Shaving and healing. J. H. Ichter. No. 148,083; Nov. 8.
Lumber. Hawkins Lumber Company. No. 148,072; Nov. 8.
Magazine or pamphlet. International Magazine Company. No. 148,060; Nov. 8.
Magazines, Monthly. Automobile Club of St. Louis. No. 147,915; Nov. 8.
Magnet-wires. Belden Manufacturing Company. No. 147,927; Nov. 8.
Malt extract. M. C. Rosenfeld Company. No. 148,241; Nov. 8.
Marshmallows, chocolates, fudge, candies. Rueckheim Bros. & Eckstein. No. 148,245; Nov. 8.
Medicated wine for use as a general tonic. Winox, Limited. No. 148,315; Nov. 8.
Medicine for relieving influenza, &c. F. Sarapas. No. 148,252; Nov. 8.
Medicine for the liver and bowels. M-Z Pharmacal Co. No. 148,171; Nov. 8.
Medicinal preparations. Boericke & Tafel. No. 147,932; Nov. 8.
Medicinal preparation. Dry Oil Products Ltd. No. 147,909; Nov. 8.
Medicinal preparation. N. J. Molnar. No. 148,167; Nov. 8.
Medicinal preparation. W. B. Robinson, M. D. No. 148,239; Nov. 8.
Medicinal preparation. Rudco Drug Co. No. 148,244; Nov. 8.
Metal, Babbitt. Kansas City Smelting Co. No. 148,108; Nov. 8.
Metal-drilling machines. Aurora Tool Works. No. 147,914; Nov. 8.
Metal-polish. L. E. Hopkins. No. 148,080; Nov. 8.
Metal-working, sugar-making, &c., machinery. Buffalo Forge Company. No. 147,943; Nov. 8.
Milk and butter. Electropure Company. No. 148,008; Nov. 8.
Milk, Condensed. Northern New York Milk Corp'n. No. 148,187; Nov. 8.
Moccasins. Sawyer Boot & Shoe Co. No. 148,253; Nov. 8.
Molasses. Sugar Products Co. No. 148,278; Nov. 8.
Mouth-wash, Antiseptic. O. F. Louis. No. 148,147; Nov. 8.

Mowers, Lawn-. Dille & McGuire Mfg. Co. Nos. 147,985-91; Nov. 8.
Musical instruments, Certain. A. Burdwise. Nos. 147,944-5; Nov. 8.
Neckties, Combined packing and display receptacles for. N. Schoenfeld. No. 148,255; Nov. 8.
Needles for knitting-machines, Latch-. Geo. H. Adams Co. No. 147,895; Nov. 8.
Notions, such as garment-fasteners, needles, pins, Certain. Waldes & Co. No. 148,304; Nov. 8.
Oil and mixture of olive with other vegetable oils, Olive-. Rockhill & Victor. No. 148,240; Nov. 8.
Oil burners, Crude-. Victory Oil Burner Company. No. 148,294; Nov. 8.
Oil, Cotton-seed. International Vegetable Oil Company. No. 148,090; Nov. 8.
Oil, Olive-. Italian Greek Impt. Co. No. 148,004; Nov. 8.
Oil, Olive-. Societe Commerciale Peninsulaire Gaillard & Adams. No. 148,206; Nov. 8.
Oils, Watch and clock. H. Pamleon. No. 148,200; Nov. 8.
Ointment for eczema, &c. Radiol Laboratories. No. 148,223; Nov. 8.
Oleomargarin. Geo. P. Braun Company. No. 148,325; Nov. 8.
Oleomargarin. Jacob E. Decker & Sons. No. 147,978; Nov. 8.
Ophthalmic mountings and parts thereof. Stevens & Company. No. 148,271; Nov. 8.
Overalls, work pants and shirts. D. L. Marx Co. No. 148,150; Nov. 8.
Paint for hot surfaces, Ready-mixed. Goheen Corporation. No. 148,053; Nov. 8.
Paint-pigments. New Jersey Zinc Company. No. 148,182; Nov. 8.
Paints, paint-oils, varnishes, colors. Albert K. Sheldon Company. No. 148,258; Nov. 8.
Paper and cloth for book-covers, Prepared. Dux Chemical Solutions Company. No. 148,002; Nov. 8.
Paper and paper towels, Toilet, &c. A. P. W. Paper Company. No. 148,201; Nov. 8.
Paper and stationery. E. Hasslinger. No. 148,071; Nov. 8.
Paper bags and boxes. Waltham Bag & Paper Company. No. 148,200; Nov. 8.
Paper boxes and cartons. Dure Paper Products Co. No. 148,001; Nov. 8.
Paper-fasteners. Henzel-Malmenes Company. No. 148,073; Nov. 8.
Paper, Printing-. S. D. Warren Company. No. 148,305; Nov. 8.
Paper, Safety-. Lithographers Cooperative Association. No. 148,141; Nov. 8.
Paper, Wall-. Cross & Beardsley. No. 147,921; Nov. 8.
Paper, Wax-. Waxide Paper Co. No. 148,306; Nov. 8.
Paper, Writing-. H. G. Fohlmann. No. 148,214; Nov. 8.
Paper, Fruit-wrapping tissue-. Graham Paper Company. No. 148,058; Nov. 8.
Paper, Writing and typewriting. Fred Webster Paper Company. No. 148,207; Nov. 8.
Papers, Certain. Fischel Paper Company. No. 148,022; Nov. 8.
Papers, Writing-. Corliss, Macy & Co. No. 147,971; Nov. 8.
Papeteries, writing-paper, and mailing envelops. John A. Murphy Company. No. 148,170; Nov. 8.
Paste products, Italian. Romac Corporation. No. 148,079; Nov. 8.
Paste, Library, office, &c. Zim Products Co. No. 148,322; Nov. 8.
Pavements and bituminous paving materials, Street-. Hassam Paving Company. No. 148,070; Nov. 8.
Peanut-butter. Blue Bell Peanut Butter Company. No. 147,931; Nov. 8.
Peanuts in the shell. Franklin Peanut Company. No. 148,031; Nov. 8.
Pearls and reconstructed gems, Imitation. Ciro Pearls Ltd. No. 147,959; Nov. 8.
Pencils. Joseph Dixon Crucible Company. No. 147,992; Nov. 8.
Pens, Fountain-. Simplo Füllfeder Gesellschaft Voss, Lausen & Dziambor. No. 148,262; Nov. 8.
Periodical issued monthly. National Aniline & Chemical Company, Inc. No. 148,172; Nov. 8.
Periodical or magazine, Quarterly. Butterick Publishing Company. No. 147,947; Nov. 8.
Periodical published weekly. Shoe Retailer Company, The. No. 148,260; Nov. 8.
Periodicals and publications, Weekly. American Lumberman. No. 147,904; Nov. 8.
Periodicals, Weekly. National Cash Register Company. No. 148,174; Nov. 8.
Petroleum products. Associated Oil Company. No. 147,913; Nov. 8.
Pharmaceutical preparations. San Antonio Drug Co. No. 148,250; Nov. 8.
Pharmaceutical preparation. H. P. Clearwater. No. 147,963; Nov. 8.
Phonograph accessories, Certain. F. C. Kent Company. Nos. 148,104-5; Nov. 8.
Phonograph-record-cleaning attachments and wipers used therewith. J. Runk. No. 148,246; Nov. 8.
Phonograph-records. Brunswick-Balke-Collender Company. No. 147,941; Nov. 8.
Photographic mounts for holding X-ray films, &c. Comparative X-Ray Company. No. 147,967; Nov. 8.
Photographs. W. L. Glysson. No. 148,052; Nov. 8.
Photographs. F. H. Haggvist. No. 148,063; Nov. 8.
Piece goods, blankets, and bedding. John V. Farwell Company. No. 148,015; Nov. 8.
Piece goods, Certain. Lesser, Whitman & Co. Nos. 148,113-8; Nov. 8.
Pie filling, fruit preserves, &c., Mince-. Tuxtor Corn & Fruit Products Co. No. 148,281; Nov. 8.
Pies, Meat. Glasgow Meat Pie Company. No. 148,048; Nov. 8.
Pins, Safety-. E. Ehlick. No. 148,004; Nov. 8.
Pipe-screwing apparatus and oil-well pulling and cleaning apparatus. Buckeye Traction Ditcher Company. No. 147,942; Nov. 8.
Plastic rubber material for repairing tires, hose, &c. J. E. Smith. No. 148,264; Nov. 8.
Polishing compositions. E. Reed Burns Supply Company. No. 148,224; Nov. 8.
Polishing preparation and a certain paint and varnish oil. L. N. Lattaner. No. 148,142; Nov. 8.
Portfolios. H. H. Geary. No. 148,043; Nov. 8.
Poultry-markers. M. Bayerdorffer. No. 147,919; Nov. 8.
Powder, rouge, massage-cream, Face-. C. Davis. No. 147,977; Nov. 8.
Powder to be used on the feet and armpits. Twill Manufacturing Co. No. 148,285; Nov. 8.
Precision instruments, Certain. C. E. Johansson. No. 148,097; Nov. 8.
Precision-tools for mechanics, Certain. Stanley Works. No. 148,270; Nov. 8.
Preparation for cleaning and polishing varnished surfaces. Cedar Hill Formulae Company. No. 147,953; Nov. 8.
Preparation for cleaning, deodorising, and disinfecting. T. M. Farmer. No. 148,014; Nov. 8.
Preparation for dandruff, itching scalp, and eczema. A. F. Frick. No. 148,032; Nov. 8.
Preparation for treatment of certain ailments, Liquid. J. H. Kessler. No. 148,107; Nov. 8.
Preparation for treatment of diseases of the mouth and teeth. R. C. King. No. 148,110; Nov. 8.
Preparation for venereal infections. Q. T. Manufacturing Co. No. 148,221; Nov. 8.
Preparations. J. Boutselis. No. 147,935; Nov. 8.
Printed and woven piece fabrics and cotton piece textiles. Convertex Corporation. No. 147,969; Nov. 8.
Publication, Monthly. El Comercio Publishing Company. No. 148,006; Nov. 8.
Publication, Monthly. Pels-Jones. No. 148,309; Nov. 8.
Publication, Trade. Retail Millinery Association of America. No. 148,231; Nov. 8.
Publications, Printed. Blake & Amber. No. 147,929; Nov. 8.
Razors. Pike Manufacturing Company. No. 148,212; Nov. 8.
Razors, Safety-. Enders Sales Company. No. 148,009; Nov. 8.
Remedy for domestic fowl, Diarrhea. W. A. Brooks. No. 147,980; Nov. 8.
Ribbons, dress goods, and shirtings. Economic Manufacturing Co. No. 148,003; Nov. 8.
Rice. B. Fischer & Co. No. 148,329; Nov. 8.
Reins, Collapsible. H. Schaechterle. No. 148,240; Nov. 8.
Rubber and canvas belts and rubber hose. Manhattan Rubber Mfg. Co. No. 148,154; Nov. 8.
Rubber cement and gum, &c. India Tire & Rubber Co. No. 148,086; Nov. 8.
Rubber patches for inner tubes and tires. Red Devil Patch Co. No. 148,227; Nov. 8.
Rubber patches, tires, and tubes. Patten Manufacturing Company. No. 148,338; Nov. 8.
Rubber toys. Faultless Rubber Company. No. 148,017; Nov. 8.
Rubies and sapphires, ring-mountings, Reconstructed. H. Paulson. No. 148,208; Nov. 8.
Rugs, Woven. J. Wittman. No. 148,317; Nov. 8.
Sadirons, Automatic electric. Dover Manufacturing Company. No. 147,996; Nov. 8.
Sadirons, Electric. Dover Manufacturing Company. No. 147,997; Nov. 8.
Salad-dressing, Cream. Mrs. M. O. Randall. No. 148,225; Nov. 8.
Salve for eczema. A. Kundeus. No. 148,119; Nov. 8.
Seeds, Field-. D. D. Simmons. No. 148,261; Nov. 8.
Service-ring for pyramiding plates, &c., for hotels, &c. Zoria Banquetier Co. No. 148,323; Nov. 8.
Shirtwaists, Ladies'. P. Lesser. No. 148,134; Nov. 8.
Shirts, Men's dress-. Lord & Taylor. No. 148,145; Nov. 8.
Shoe-dressing. Devonde Laboratories. No. 147,981; Nov. 8.
Shoe-enamel, Liquid. Cinderella Heel Corporation. No. 147,958; Nov. 8.
Shoe-repairs. E. V. Shivers. No. 148,259; Nov. 8.
Shovels, spades, scoops, and drainage-tools. Wood Shovel & Tool Company. No. 148,320; Nov. 8.
Signs, Electrically-illuminated. Flexlume Sign Company. No. 148,025; Nov. 8.
Silk piece goods. Bianchini, Férier. No. 147,928; Nov. 8.
Silk piece goods. H. R. Mallinson & Co. No. 148,153; Nov. 8.
Silks, cotton and crape textiles in the piece. Ironwarp Silk Mills. No. 148,003; Nov. 8.
Silver-polish. C. M. Kimball Company. No. 148,108; Nov. 8.
Sleds and wagons, Coasting. Marshall-Wells Company. No. 148,158; Nov. 8.

Soap. Dunlet Wonder Soap Company. No. 147,909; Nov. 8.
Soap. W. T. Green. No. 148,080; Nov. 8.
Soap. W. H. Hewitt. No. 148,078; Nov. 8.
Soap. R. M. Hollingshead Co. No. 148,076; Nov. 8.
Soap. Howard Bros. Chemical Co. No. 148,081; Nov. 8.
Soap. Lenox Soap Company. No. 148,091; Nov. 8.
Soap. Lenox Soap Co. No. 148,128; Nov. 8.
Soap. National Chemical Company. No. 148,175; Nov. 8.
Soap. Palmolive Co. of Canada. No. 148,260; Nov. 8.
Soap, Mechanics'. Navajo Laboratories. No. 148,170; Nov. 8.
Soap powder, soap, silver-polish, &c. Globe Grocery Stores. No. 148,051; Nov. 8.
Soaps, Toilet. Harriet Hubbard Ayer. No. 147,916; Nov. 8.
Soaps, Toilet. Swift and Company. No. 148,272; Nov. 8.
Soaps, Toilet, perfumed toilet, and household. Societe Anonyme Parfumerie Rameau. No. 148,265; Nov. 8.
Soda, Baking. J. B. Chamberlain Company. No. 147,964; Nov. 8.
Solution for chapped hands and faces. A. Bayer. No. 148,242; Nov. 8.
Spark-plugs. Ignition Company of America. No. 148,064; Nov. 8.
Spark-plugs. Spiro Spark Plug Co. No. 148,268; Nov. 8.
Spoke-fastener, Liquid. Navajo Laboratories. No. 148,177; Nov. 8.
Starch. Corn Products Refining Co. No. 147,972; Nov. 8.
Stationery articles, Certain. I. Lovi. No. 148,186; Nov. 8.
Steel bars. Arthur Balfour Steel Co. No. 147,911; Nov. 8.
Sugar-cane-cutting machinery. W. S. Miller. No. 148,165; Nov. 8.
Sugar, Milk. Phentz Cheese Co. No. 148,210; Nov. 8.
Sugar wafers and cakes. American Biscuit Company. No. 147,899; Nov. 8.
Suits, blouses, bloomers, and skirts, Three-piece play-. H. L. Bernstein. No. 147,933; Nov. 8.
Sweaters. Russell Manufacturing Company. No. 148,247; Nov. 8.
Tablets, Antiseptic prophylactic. Leo Shapiro Company. No. 148,121; Nov. 8.
Tablets for stomach and liver; Medicinal. A. H. Lewis Medicine Company. No. 148,126; Nov. 8.
Talking-boards. W. Fuld. No. 148,231; Nov. 8.
Talking-machine records. Arto Co. No. 147,912; Nov. 8.
Teas, coffees, food-flavoring extracts, spices. J. H. Van Winkle. No. 148,280; Nov. 8.
Telegraphic sending-machines. Vibroplex Company. No. 148,291; Nov. 8.
Telephone-directories published semi-yearly. Reuben H. Donnelley Corporation. No. 148,282; Nov. 8.
Textile goods in the piece. Jacob Miller Sons & Co. No. 148,287; Nov. 8.
Thermometers, and steam-pressure and altitude gages. American Radiator Company. No. 147,906; Nov. 8.
Thread and yarn. Bearskin Cotton Mills. No. 147,922; Nov. 8.
Thread, Shoe-. Victor Shoe Machinery Company. No. 148,292; Nov. 8.
Threads of flax, hemp, &c. Blackstaff Flax Spg. & Wvg. Co. No. 147,920; Nov. 8.
Tickings. I. Loden. No. 148,120; Nov. 8.
Tire-protectors and antiskid-chains. R. McCormick. No. 148,238; Nov. 8.
Tires and tubes and tire accessories, Rubber pneumatic. Double Fabric Tire Company. No. 147,900; Nov. 8.
Title of trade pamphlet issued monthly. Goshen Sash and Door Company. No. 148,055; Nov. 8.
Toilet preparation to reduce superfluous flesh. Scott's Preparations, Inc. No. 148,257; Nov. 8.
Toilet preparations. H. Gabilla. No. 148,032; Nov. 8.
Toilet preparations. E. C. Wippel. No. 148,316; Nov. 8.
Toilet preparations, namely, face-powder, soaps, &c. Ambo Co. No. 147,897; Nov. 8.
Toilet water, perfumes, &c. J. H. Marcuse. No. 148,169; Nov. 8.
Tonic. A. Sabat. No. 148,276; Nov. 8.
Tonic, Restorative, &c. A. M. Kronberger. No. 148,119; Nov. 8.
Tools for shoe-rod cutters. Diamant-Gewerbare Kooperativ Gesellschaft "Reform Lovenschradt." No. 147,923; Nov. 8.
Trunks-makers. Western Bottle Manufacturing Company. No. 148,243; Nov. 8.
Toothbrushes and nail-brushes. Imperial Brush Company. 148,095; Nov. 8.
Torches and gas-heaters, Blow-. Pamplona Blow Torch Company. No. 148,229; Nov. 8.
Towels, towels crushed, scarfing, tray-cloths. Laird Linen Corporation. Nos. 148,121-7; Nov. 8.
Toys. Ironbone Trading Corporation. No. 148,092; Nov. 8.
Toys and playthings. Donahoe Manufacturing Corporation. No. 147,984; Nov. 8.
Transmission-band linings, Dressing for. J. C. McLean. No. 148,153; Nov. 8.
Transmission-gearings and parts thereof. Covert Gear Company. No. 147,978; Nov. 8.
Tractors. C. L. Best Tractor Co. No. 148,234; Nov. 8.
Tractors. B. J. Patrick. No. 148,202; Nov. 8.
Trees. Haas & Kirkland. No. 148,062; Nov. 8.
Trees, Fruit-. Jerseyville Nursery. No. 148,096; Nov. 8.
Trucks, Motor-. Menominee Motor Truck Co. No. 148,236; Nov. 8.
Trunks and traveling-bags. Virginia Trunk and Bag Co. No. 148,206; Nov. 8.
Underwear, Woven and knitted. New England Knitting Co. No. 148,101; Nov. 8.
Union-suits, undershirts, and underdrawers, Men's and boys'. Hall, Hartwell & Co. No. 148,065; Nov. 8.
Velvets in the piece. Bennett and Hayden Company. No. 147,943; Nov. 8.
Waists, Ladies'. Ripon Shirtwaist Company. No. 148,237; Nov. 8.
Washers and milk-bottle fillers, cappers, and pasteurizers. Rice & Adams Corporation. No. 148,233; Nov. 8.
Washing fluids. P. Benedetti & A. Vanucci & Co. No. 147,935; Nov. 8.
Washing-tablets. W. R. Hollingshead Company. No. 148,077; Nov. 8.
Weather-stripping, Metal. Diamond Metal Weather Strip Co. No. 147,982; Nov. 8.
Welding-machines, Electric. Electric Arc Cutting and Welding Company. No. 148,007; Nov. 8.
Wheels and demountable rims. Harvey Rim and Wheel Company. No. 148,060; Nov. 8.
Windshield-cleaner. K-M Manufacturing Company. No. 148,115; Nov. 8.
Wire baskets. Barbee Wire & Iron Works. No. 147,918; Nov. 8.
Wire cloth and netting. American Cellulose & Chemical Manufacturing Company. No. 147,901; Nov. 8.
Wires, Magnet-. Belden Manufacturing Company. No. 147,924; Nov. 8.
Wood, plywood, Built-up. Gorham Brothers Company, The. No. 148,054; Nov. 8.
Wood-preservatives and fly-sprays. Standard Tar Products Co. No. 148,209; Nov. 8.
Woolen piece goods. Forstmann & Huffmann Co. No. 148,330; Nov. 8.
Woolen piece goods. Princess Textile Mills. No. 148,317; Nov. 8.
Woolens, broad silks, velvets, &c. J. A. Migel, Inc. No. 148,163; Nov. 8.
Yarns. H. Weisenberg. No. 148,206; Nov. 8.
Zinc. New Jersey Zinc Company. No. 148,185; Nov. 8.
Zinc oxid. New Jersey Zinc Company. No. 148,183; Nov. 8.

ALPHABETICAL LIST OF LABELS.

"Allen A Hosiery." (For Hosiery.) The Allen A Company. No. 23,617; Nov. 8.
"Allen A Spring Needle Underwear." (For Underwear.) The Allen A Company. No. 23,615; Nov. 8.
"Allen A Summerwear." (For Underwear.) The Allen A Company. No. 23,616; Nov. 8.
"Angler." (For Canned Peas.) Inderrieden Canning Co. No. 23,629; Nov. 8.
"Black and White Hoof-Rot Remedy." (For Hoof-Rot Remedy, Fly-Repellent, and Healing-Oil for External Use on Cattle and Sheep.) A. A. Brockett. No. 23,619; Nov. 8.
"Butter Bread Bayer's Bakery." (For Bread.) The Hammersley Manufacturing Co., The. No. 23,622; Nov. 8.
"Ensemble." (For Chocolates.) H. Jevne Co. No. 23,630; Nov. 8.
"Enterprise." (For Honey.) A. J. Schultz. No. 23,647; Nov. 8.
"Flower Design." (For Hairpin-Boxes.) The Sterling Pin Company. No. 23,649; Nov. 8.
"Fluffytulle." (For Mallines, Tulles, and Nettings in the Piece.) H. B. Lederer. No. 23,635; Nov. 8.
"Garcia Bouquet." (For Cigars.) A. Fuente & Company. No. 23,620; Nov. 8.
"I. B. Co." (For Root-Beer.) Independent Breweries Company. No. 23,624; Nov. 8.
"Italian Creams." (For Candies.) Loft, Inc. No. 23,637; Nov. 8.
"Jockey Club." (For Canned Peas.) Inderrieden Canning Co. No. 23,628; Nov. 8.
"King Fisher." (For Canned Peas.) Inderrieden Canning Co. No. 23,627; Nov. 8.
"Kranks Natural Face Powder." (For Boxes Containing Face-Powder.) A. J. Krank. No. 23,632; Nov. 8.
"La Minar." (For Cigars.) La Minar Cigar Co. Inc. No. 23,634; Nov. 8.
"Lamb." (For Prunes.) The Lamb Fruit Company. No. 23,633; Nov. 8.
"Needham's Hay Fever Spray." (For Sprays for the Relief of Hay-Fever.) The Needham Products Co. No. 23,640; Nov. 8
"No-Wet." (For Baby-Pants.) S. Beechman & Sons Inc. No. 23,618; Nov. 8.
"Old Abe." (For Canned Peas.) Inderrieden Canning Co. No. 23,626; Nov. 8.
"Old Dutch Chocolates." (For Candies.) Loft, Inc. No. 23,636; Nov. 8.
"Old Faithful." (For Coffee.) W. J. Menke. No. 23,639; Nov. 8.
"Over the Desert Sands." (For Packages of Cigarettes and Tobacco.) H. A. Staggs. No. 23,648; Nov. 8.
"The Prize." (For Chocolates.) D'Orlando Co. No. 23,621; Nov. 8.
"Purity Brand Beverage Coloring." (For Extracts for Coloring Beverages.) Purity Malt Extract Co. No. 23,642; Nov. 8.
"Purity Brand Bohemian Malt Extract." (For Extracts for Food and Beverage Purposes.) Purity Malt Extract Co. No. 23,641; Nov. 8.
"Purity Brand Domestic Malt Extract Light." (For Extracts for Food and Beverage Purposes.) Purity Malt Extract Co. No. 23,645; Nov. 8.
"Purity Brand Imported Bohemian Hops." (For Hops.) Purity Malt Extract Co. No. 23,643; Nov. 8.
"Purity Brand Root Beer Extract." (For Extracts for Beverage Purposes.) Purity Malt Extract Co. No. 23,644; Nov. 8.
"Red Cedar." (For Canned Peas.) Inderrieden Canning Co. No. 23,625; Nov. 8.
"The Royal Lady." (For Hair-Nets.) Samstag & Hilder Bros. No. 23,646; Nov. 8.
"Rusalka 'Queen of the Seas.'" (For Hair-Net Envelopes.) M. E. Kantor. No. 23,631; Nov. 8.
"Shurdone." (For Cake-Testing Straws.) P. H. Howard. No. 23,623; Nov. 8.
"Swance Bacon." (For Packaged Bacon.) Joseph Stern & Sons, Inc. No. 23,650; Nov. 8.
"Unit Inks." (For Ink for Printers and Lithographers.) C. J. MacArthur. No. 23,638; Nov. 8.
"Welchade." (For Concentrated Grape.) The Welch Grape Juice Company. No. 23,651; Nov. 8.

ALPHABETICAL LIST OF PRINTS.

"Neamoht Obstetrical Table." (For Advertising Purposes for Obstetrical Tables.) J. H. Thomson. No. 5,830; Nov. 8.

"The De Rigne Pneumatic Pump." (For Advertising Purposes for Tire-Pumps.) C. A. De Rigne. No. 5,829; Nov. 8.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Alfalfa-meal. Denver Alfalfa Milling & Products Co. No. 149,799; Nov. 8.
Analgesic, Antirheumatic. Societe Chimique des Usines du Rhone. No. 151,485; Nov. 8.
Anesthetic, Local. Societe Chimique des Usines du Rhone. No. 151,487; Nov. 8.
Apples. Jerseyville Nursery. No. 132,050; Nov. 8.
Aprons and house-dresses. Birkenfeld, Strauss & Co. No. 145,310; Nov. 8.
Barrels and kegs and staves and heading therefor, Tight. Western Cooperage Co. No. 150,647; Nov. 8.
Beads, Glass and metal. Samstag & Hilder Bros. No. 152,485; Nov. 8.
Belts for personal wear. G. M. Polx, Inc. No. 147,258; Nov. 8.
Belts, gloves, and mittens of leather and fabric, shirts, sweaters, &c. Men's and boys'. Walker Stetson Company. No. 145,248; Nov. 8.
Beverage and syrup for making same, Non-alcoholic, Non-cereal, maltless. Kean Kola Manufacturing Company. No. 152,506; Nov. 8.
Beverage and syrup for making same, Non-alcoholic, non-cereal, maltless. E. J. Shine. No. 152,520; Nov. 8.
Beverage, Non-alcoholic, maltless. C. P. Johnson. No. 150,015; Nov. 8.
Beverage, Non-alcoholic, maltless. G. V. Moseley. No. 149,971; Nov. 8.
Beverage, Non-alcoholic, maltless. Pittsburgh Brewing Company. No. 151,964; Nov. 8.
Beverage, Non-alcoholic, maltless. River Nile Company. No. 151,562; Nov. 8.
Boning, steels, and staying materials. Mightybone Corporation of New York. No. 150,245; Nov. 8.
Books, pamphlets, catalogues, printed and engraved matter, &c. Essex Press, Inc. No. 153,183; Nov. 8.
Bottle-washing machine. York Milk Machinery Company. No. 149,300; Nov. 8.
Boxes and packing-cases. Arlo Box Company. No. 149,535; Nov. 8.
Brassieres and diaphragm supporters. Corset Supply House. No. 141,967; Nov. 8.
Bread. F. Jungewaelter. No. 128,095; Nov. 8.
Bread. Maclachlan-Fowler Baking Co. No. 150,627; Nov. 8.
Bread, biscuits, cake, &c. John J. Missen Baking Company. No. 144,539; Nov. 8.
Bread, Potato rye. F. Jungewaelter. No. 128,094; Nov. 8.
Brooms. Lee Broom & Duster Co. No. 152,209; Nov. 8.
Butter, Creamery-. Fox River Butter Co. No. 150,604; Nov. 8.
Cabbage, beans, Irish potatoes, peaches, watermelon, and sweet potatoes, Fresh. Gulf Coast Produce Exchange. No. 149,546; Nov. 8.
Candies. Crusen-Allegretti Co. No. 150,184; Nov. 8.
Candy. Ucanco Candy Company. No. 147,479; Nov. 8.
Candy. A. C. Vaesmer. No. 143,072; Nov. 8.
Candles. Will & Baumer Candle Co. No. 150,733; Nov. 8.
Canned food. Indian Packing Corporation. No. 150,090; Nov. 8.
Canned fruits. H. M. Lockwood. No. 148,496; Nov. 8.
Canned salmon. George W. Sanborn & Sons. No. 149,934; Nov. 8.
Cards, Greeting-. Post-Michel Co. No. 138,282; Nov. 8.
Cards, Playing-. G. L. McCarthy. No. 152,473; Nov. 8.
Castings for machinery-bushings and pump-valves, &c., Bronze. Kingwell Bros. No. 144,090; Nov. 8.
Catamenial napkins. J. Wiesman. No. 150,839; Nov. 8.
Cheese, Brindza. Purity Cream Cheese Company. No. 150,408; Nov. 8.
Chocolate and cocoa, Milk-. Peter Caillier Kohler Swiss Chocolates Co. No. 151,091; Nov. 8.
Cleaning floors, Liquid for. A. Lucati. No. 152,234; Nov. 8.
Clothes-washing liquid. A. Lucati. No. 152,336; Nov. 8.
Coats, suits, and dresses. Cohn-Goodman Company. No. 147,952; Nov. 8.
Compound for relieving fever. W. Borkowski. No. 150,500; Nov. 8.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Concrete-mixers and distributing-machines, graders, &c. Koehring Company. No. 149,189; Nov. 8.
Cotton and silk mixture piece goods. N. Fluegelman & Co. No. 148,170; Nov. 8.
Cotton goods in the piece. Lonsdale Company. No. 150,197; Nov. 8.
Cotton piece goods. Rafael Castillo & Co. No. 130,980; Nov. 8.
Cotton, silk, and cotton and silk piece goods. J. Richman & Co. No. 151,880; Nov. 8.
Cotton suiting in the piece. Tilton & Keeler. No. 152,507; Nov. 8.
Cream and tooth-paste, Pyorrhea. A. F. Lussi. No. 131,909; Nov. 8.
Cream, Face-. E. Bajanova. No. 147,545; Nov. 8.
Cream for eczema, ringworm, freckles, &c., Skin-. C. C. Cole. No. 149,443; Nov. 8.
Cream for the ankles, Massage-. J. Farrelly. No. 148,652; Nov. 8.
Cream, tar shampoo, bay-rum, toilet-water, &c. Cold-Kilnker Manufacturing Co. No. 148,320; Nov. 8.
Crepe and broad silks in the piece. Louis Roessel & Co. No. 147,991; Nov. 8.
Cruisers. Van Cruiser Company. No. 149,530; Nov. 8.
Dairy feed. R. M. Stegall. No. 147,474; Nov. 8.
Decoration made of tin-foil for Christmas trees. Conley Foil Company. No. 150,510; Nov. 8.
Dental articulators. Szabo & Beer. No. 151,925; Nov. 8.
Detergents, Soluble chemical compounds used as. Electric Smelting & Aluminum Co. No. 152,155; Nov. 8.
Detergents, Soluble chemical compounds used as. Electric Smelting & Aluminum Co. No. 152,319; Nov. 8.
Dolls. A. Black. No. 152,609; Nov. 8.
Doors, Machinery for controlling operation of. H. G. Ainsworth. No. 149,166; Nov. 8.
Eggs and live chickens. A. Brush, Jr. No. 142,873; Nov. 8.
Engines, Water-circulator for internal-combustion. S & G Manufacturing Company. No. 149,429; Nov. 8.
Envelop-machines. F. L. Smithe Machine Company. No. 149,603; Nov. 8.
Eye medicine. H. Darvas. No. 151,209; Nov. 8.
Feed, Cattle and stock. S. P. Davis. Nos. 149,949–50; Nov. 8.
Feed, Cattle and stock. S. P. Davis. No. 149,952; Nov. 8.
Feed, Chicken. Speltz Grain & Coal Co. No. 150,042; Nov. 8.
Flavoring extracts, Non-alcoholic, maltless. Instant Extract Company. No. 146,182; Nov. 8.
Flavoring extracts, peanut-butter, vinegar, &c. Robb-Ross Co. No. 150,827; Nov. 8.
Flour and cornmeal, Wheat and Graham. Colby Milling Company. No. 147,091; Nov. 8.
Flour, Wheat-. Centennial Mill Company. No. 150,801; Nov. 8.
Flour, Wheat-. Federal Mill & Elevator Co. No. 150,230; Nov. 8.
Flour, Wheat-. Oklahoma Mill Co. No. 150,821; Nov. 8.
Fluxes for soldering and welding. Société Anonyme des Usines Giulini. No. 148,956; Nov. 8.
Fruits, Fresh citrus. N. Grove. Nos. 148,396–8; Nov. 8.
Fruits, raisins, and seedless raisins, Dried. California Packing Corporation. No. 137,725; Nov. 8.
Fruits, vegetables, and berries, Fresh. Wicomico Farmers Association. No. 149,563; Nov. 8.
Furniture and automobile polish. A. Ouellett. No. 149,974; Nov. 8.
Games, toys, and sporting goods. Thomson-Diggs Company. No. 148,176; Nov. 8.
Garters. Wilson Brothers. No. 147,387; Nov. 8.
Glass, &c., Liquid mixture for cleaning. J. H. Kelly. No. 149,756; Nov. 8.
Gloves, Leather. Morrison Ricker Mfg. Co. No. 147,447; Nov. 8.
Grain-binders, tractors, threshers, &c., and parts for said machines, International Harvester Co. Nos. 149,807–8; Nov. 8.
Grape-juice and juice from other fruits, Unfermented. Rachel Recofet y Haag. No. 153,062; Nov. 8.
Grinding-machines and attachments. Norton Company. No. 150,406; Nov. 8.
Hair-nets. New York Merchandise Company. No. 147,538; Nov. 8.
Hair-nets. Samstag & Hilder Bros. No. 151,772; Nov. 8.
Hair-straightener. L. R. Conwell. No. 151,207; Nov. 8.
Hand-bags, Leather. Ryan-Cushing Company. No. 147,125; Nov. 8.
Handkerchiefs. Daniel T. Patton and Company. No. 152,651; Nov. 8.
Handkerchiefs. Penn Drug Specialty Co. No. 149,651; Nov. 8.
Hats and caps. B. L. Gram. No. 147,776; Nov. 8.
Hats and caps. Samuel Miller & Co. Nos. 149,542–4; Nov. 8.
Hats, Men's and boys'. W. C. Bill. No. 147,337; Nov. 8.
Hedge-trimmers. J. C. Dettra. No. 150,754; Nov. 8.
Hexamethylenamin in powder and tablet form. Merck & Co. No. 139,217; Nov. 8.
Hosiery. Triple-Wear Hosiery Mills. No. 128,804; Nov. 8.
Hosiery and knitted underwear. Deico Hosiery & Underwear Co. No. 147,520½; Nov. 8.
Hypnotic analgesic. Société Chimique des Usines du Rhone. No. 151,484; Nov. 8.
Icings, coatings, frostings. Brown Company. No. 151,029; Nov. 8.
Iron and steel products. E. L. Soulé. No. 145,366; Nov. 8.
Knitted hosiery, underwear, and petticoats for women. E. J. Isaacs. No. 145,215; Nov. 8.
Knives, razors, monkey-and pipe wrenches, Saws, &c. Winchester Repeating Arms Co. No. 149,432; Nov. 8.
Laxatives. W. H. Arthur. No. 149,255; Nov. 8.
Laxative food. Grain Packing Company. No. 136,839; Nov. 8.
Last-thimbles. Boston Pressed Metal Company. No. 150,283; Nov. 8.
Liquid for freckles, eczema, perspiration of the feet, bites, &c. Columbian Bax Co. No. 150,187; Nov. 8.
Lotion, Antiseptic. Crown Remedy Company. No. 150,517; Nov. 8.
Magazine, Monthly. Eastman Kodak Company. No. 152,606; Nov. 8.
Magazine, Monthly. G. F. Weeks. No. 152,150; Nov. 8.
Magazine, Semi-annual. W. B. Thompson. No. 152,046; Nov. 8.
Magazines, Monthly. Briggs & Stratton Company. No. 137,559; Nov. 8.
Malt and fruit extracts and syrups. S. L. Goldman. No. 139,033; Nov. 8.
Malt extract. H. Corcoran. No. 150,851; Nov. 8.
Malt extracts. C. Moscheowecz. No. 150,281; Nov. 8.
Mattresses. John A. Schwarz, Inc. No. 135,306; Nov. 8.
Mattresses, bed-springs, pillows. O. D. Baker Company. No. 146,064; Nov. 8.
Mattresses, pillows. H. Wessel. No. 143,800; Nov. 8.
Mayonnaise, salad, and Thousand Island dressings. H. S. Brown. No. 147,396; Nov. 8.
Medical preparation for treatment of skin diseases. S. Finkel. No. 144,567; Nov. 8.
Medicament-volatilizers. Voito Company. No. 146,153; Nov. 8.
Medicated fiber for toothache and earache, Sterilized. F. A. Monroe. No. 151,881; Nov. 8.
Medicated powder for treatment of pyorrhea. Riggs Chemical Laboratories. No. 151,383; Nov. 8.
Medicated shampoo, cold-cream, dandruff-ointment. W. H. De St. Cyr. No. 142,609; Nov. 8.
Medicinal preparation for internal use for headache, rheumatism, &c. G. Fisher, Jr. No. 150,193; Nov. 8.
Medicinal preparation for skin diseases, rheumatism, &c. P. J. Dervin. No. 146,957; Nov. 8.
Medicinal preparations. P. Avallone. No. 148,199; Nov. 8.
Medicine for catarrhal conditions. Crown Remedy Company. No. 150,515; Nov. 8.
Medicine for catarrh, earache, gout, &c. R. J. Gates. No. 150,858; Nov. 8.
Medicine for gall-stone and gravel. Galgo Company. No. 129,458; Nov. 8.
Medicine for lack of vitality, &c. Youth-Gland Chemical Laboratories Ltd. No. 148,008; Nov. 8.
Medicine for nervous prostration, dyspepsia, &c. Allan J. Dash Company. No. 150,226; Nov. 8.
Medicine for rheumatism and blood diseases. J. C. Freter. No. 148,726; Nov. 8.
Medicine for sores, ulcers, bites, &c. J. F. Hrejsa. No. 142,438; Nov. 8.
Medicines for eczema, rheumatism, &c. R. Johnson. No. 150,360; Nov. 8.
Medicines for heart affections. Laboratoire Nativelle. No. 149,509; Nov. 8.
Molding for upholstering. George R. Carter Company. No. 146,785; Nov. 8.
Mops, Cotton. California Cotton Mills Company. No. 150,659; Nov. 8.
Needles, also toilet-pins. B. J. Parsons. No. 135,107; Nov. 8.
Needles, Sewing and embroidering machine. L. Lammerts. No. 145,344; Nov. 8.
Office organ and advertising magazine, Inter-. Monroe Calculating Machine Company. No. 150,819; Nov. 8.
Oil compound for scalp uses, &c., Crude-. W. H. De St. Cyr. No. 145,907; Nov. 8.
Oil from fresh codfish-livers. O. Wasboe. No. 148,620; Nov. 8.
Oil, Motor-lubricating. Pennsylvania Petroleum Company. No. 151,967; Nov. 8.
Oils, Edible vegetable. Sam Bruck, Inc. No. 142,825; Nov. 8.
Oils, Gasolene and motor fuel-. Texas Company. No. 152,290; Nov. 8.
Oils, laundry wax, petroleum, disinfectants, and dyes, Medicinal. Standard Oil Company of New York. No. 136,208; Nov. 8.
Ointment and deodorizer, Medical healing-. O. D. Stuart. No. 150,039; Nov. 8.
Ointment, Antiseptic. H. C. Durar. No. 150,855; Nov. 8.
Ointment, Healing. Crown Remedy Company. No. 150,513; Nov. 8.
Olive-oil. Hijos de Ybarra. No. 128,604; Nov. 8.
Olive-oil, candies, figs, and fresh, dried, and canned oranges, pears, and apples. J. D. Antomopulos. No. 119,326; Nov. 8.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Onions, potatoes, carrots, and apples. Fresh. B. Ballah. No. 150,055; Nov. 8.
Oranges and lemons. American Fruit Growers of Palestine. No. 147,942½; Nov. 8.
Paint and enamel dissolving and disintegrating preparations. Automotive Supply Manufacturing Company. No. 151,776; Nov. 8.
Paint enamels. Murphy Varnish Company. No. 150,820; Nov. 8.
Paints. Southern Cotton Oil Company. No. 150,638; Nov. 8.
Paints, Ready-mixed. Smooth-On Manufacturing Company. No. 145,799; Nov. 8.
Peppers, egg-plants, cucumbers, &c., Fresh. Ft. Myers Truckers Assn. No. 149,957; Nov. 8.
Perfumes, toilet waters, brilliantine. M. M. Richard Vve. Grenoville. No. 150,612; Nov. 8.
Periodical, Monthly. C. S. Berriman. No. 152,306; Nov. 8.
Petroleum products. Fletcher Oil Company. No. 151,872; Nov. 8.
Phonograph-motors, Electrical. Efficiency Electric Corporation. No. 137,029; Nov. 8.
Phonograph-records, Brushes for. Columbia Graphophone Manufacturing Company. No. 152,540; Nov. 8.
Photo-engraving subjects, Pamphlets, leaflets, and circulars for. Lima Photo-Engraving Co. No. 148,042; Nov. 8.
Photographs for advertising purposes, Gummed. Brassington Photo System. No. 151,077; Nov. 8.
Pickles. Yale Products Co. No. 120,470; Nov. 8.
Picture films, cameras, and picture projecting machines. Motion-. De Forest Radio Telephone and Telegraph Company. Nos. 148,130–1; Nov. 8.
Pictures and curtain-poles and taking down same, Reaching device for hanging. M. M. Passey. No. 111,736; Nov. 8.
Pills, toothache-drops, liniment, &c., Kidney and bladder. Puritan Pharmaceutical Co. No. 151,289; Nov. 8.
Playing-balls, toys, leg-guards, gloves, all made of rubber sponge. Sorbo Rubber Sponge Products. No. 137,553; Nov. 8.
Poison for rats, mice, gophers, and moles. W. R. Sweeney. No. 149,562; Nov. 8.
Pongee. Jacob Miller Sons & Co. No. 127,306; Nov. 8.
Potato chips. Walton & Hoffman. No. 147,699; Nov. 8.
Potatoes for table and seed purposes, Fresh. D. F. Getchell. No. 143,813; Nov. 8.
Pottery, Ornamental and ornamented. Charles Mullis Manufacturing Company. No. 131,726; Nov. 8.
Powder-puffs. Espiem Company. No. 151,618; Nov. 8.
Preparation for causing narrowness of blood vessels. Societe Chimique des Usines du Rhone. No. 151,486; Nov. 8.
Preparation for excessive perspiration. Chase Chemical Company. No. 150,221; Nov. 8.
Preparation for gout. Societe Chimique des Usines du Rhone. No. 151,488; Nov. 8.
Preparation for hair and scalp, Liquid. T. G. Soffos. No. 150,117; Nov. 8.
Preparation for headache, neuralgia, sciatica, backache, &c. Ligasprin Company. No. 151,679; Nov. 8.
Preparation for starting internal-combustion engines. Howard & Sons. No. 149,548; Nov. 8.
Preparation used externally for pneumonia, throat, and lung affections. J. T. Simpson. No. 133,633; Nov. 8.
Publication, Page or department in a daily. Commercial Newspaper Company. No. 147,951; Nov. 8.
Publication, Weekly. Kensington Bulletin. No. 153,145; Nov. 8.
Publication, Weekly. W. M. Walsh. No. 139,103; Nov. 8.
Publications or scientific news bulletins. Science Service, Incorporated. No. 152,771; Nov. 8.
Pumps, crossover-dumps, concentrating plants, well-drilling tools, &c. United Iron Works, Inc. No. 134,046; Nov. 8.
Receptacles classed as tanks. Fabricated Steel Products Corporation. No. 147,504; Nov. 8.
Remedy for headache and neuralgia. Reese Chemical Company. No. 139,754; Nov. 8.
Remedy, Stomach. Crown Remedy Company. No. 150,516; Nov. 8.
Romper, Child's. Cole-Granas-Enderlin Company. No. 146,877; Nov. 8.
Ruffings and plaitings for neckwear, &c. G. Sidenberg & Co.. No. 152,936; Nov. 8.
Salt—&c., sodium chlorid. Worcester Salt Co. No. 150,084; Nov. 8.
Salve for piles, catarrh, eczema, &c. Adams & Hileman. No. 150,719; Nov. 8.
Sanitary containers. Scrantoneed Container Corporation. No. 150,092; Nov. 8.
Sanitary napkins, Supporter-belts for. A. Schmid. No. 148,173; Nov. 8.
Seals completely printed and ready for use on packages. F. E. Mason & Sons. No. 143,037; Nov. 8.
Shoe-laces. Hutmacher Braiding Company. Nos. 153,455–6; Nov. 8.
Shoe-polishes, kid-cleaners, and leather-dressings. Panrex Manufacturing Co. No. 151,560; Nov. 8.
Shoes. B. I. J. Stam. No. 146,038; Nov. 8.
Shoes, Boys' fabric and leather. E. Byrnes. No. 144,126; Nov. 8.
Shoes of leather, Boys'. Brown Shoe Company. No. 148,118; Nov. 8.
Shoes for children, Leather. Sanger Brothers. No. 147,849; Nov. 8.
Shoes, Ladies'. Smaltz-Goodwin Company. No. 146,036; Nov. 8.
Shoes, Leather. Hoerr-Adam Shoe Company. No. 147,783; Nov. 8.
Sheeting, sheets, and pillow-cases. Carter Dry Goods Co. No. 152,739; Nov. 8.
Sheets and pillow-cases. Ely & Walker Dry Goods Company. No. 150,141; Nov. 8.
Sheets and pillow-cases. Ely & Walker Dry Goods Company. No. 152,121; Nov. 8.
Signs, Traveling-belt. Odle Brothers. No. 149,419; Nov. 8.
Soap, Toilet. Los Angeles Soap Co. No. 152,259; Nov. 8.
Soap, Laundry. Los Angeles Soap Co. No. 152,265; Nov. 8.
Soaps, metal-polish, leather-dressing, &c. Sherwin-Williams Company. No. 137,046; Nov. 8.
Stove-polish. Kitchen Products Co. No. 152,508; Nov. 8.
Sugar, table and cooking syrups, and molasses. Salsburg Refining Company. No. 146,466; Nov. 8.
Suits, trousers, raincoats, &c., Men's and boys'. I. Frank. No. 147,158; Nov. 8.
Sweaters, jerseys, and baseball-suits. A. G. Spalding & Bros. No. 147,261; Nov. 8.
Sweaters, sweater-coats. Boynton Mills. No. 143,152; Nov. 8.
Syrup terebene compound. Ohio Valley Drug Company. No. 151,328; Nov. 8.
Syrups and flavorings and beverages made therefrom, Non-alcoholic, non-cereal maltless. McDaniel Drug Company. No. 123,213; Nov. 8.
Tanks, Metallic. Amco Sales Corporation. No. 139,601; Nov. 8.
Teats for feeding-bottles, baby-soothers, &c. S. Maw, Son and Sons Limited. No. 152,084; Nov. 8.
Textile machinery, Thread guides for. Mitchell-Bissell Company. No. 153,513; Nov. 8.
Tile and porcelain cleanser. Grady Mfg. Co. No. 152,011; Nov. 8.
Tires, Compound for sealing punctures and slow leaks in. Clinton & Cameron. No. 150,731; Nov. 8.
Toilet articles. Hannibal Pharmacal Company. No. 150,314; Nov. 8.
Toilet preparation. M. D. Billingsley. No. 141,940; Nov. 8.
Toilet preparations. Kailah Pharmacy. No. 150,150; Nov. 8.
Toilet-tweezers and finger-nail files. San Antonio Drug Co. No. 142,421; Nov. 8.
Tonic and blood preparation, General. A. C. Wilson. No. 150,837; Nov. 8.
Tonic, Female. National Herb Medicine Company of Missouri. No. 150,199; Nov. 8.
Tonic, General. E. Y. McCrackin. No. 140,344; Nov. 8.
Toy balloons, toy rubber balls, and rubber novelties. Toycraft Rubber Co. No. 141,475; Nov. 8.
Toys, particularly toy figures whittled out of wood, &c. K. W. Vidor. No. 131,679; Nov. 8.
Trusses for hernia, shoulder-braces, arch-supports, and abdominal supporters. L. M. Rehthaler. No. 133,496; Nov. 8.
Trypanocid. Société Chimique des Usines du Rhone. No. 151,484; Nov. 8.
Undergarments, One-piece women's textile fabric. C. L. Motta. No. 146,384; Nov. 8.
Union-suits and sleeping-garments, Children's textile. Thanhouser & Weiller. No. 147,379; Nov. 8.
Velvets in the piece. Bennett and Aspden Company. No. 141,761; Nov. 8.
Washing-powder. Los Angeles Soap Co. No. 152,266; Nov. 8.
Waterproofing straw, paper, and protecting brass, &c., from tarnish, Preparation for. J. E. Sims. No. 149,828; Nov. 8.
Wearing-apparel. A. De Pinna Co. No. 141,418; Nov. 8.
Window attachment for carrying and adjusting shades. Ventalite Shade Regulator Company. No. 131,455; Nov. 8.
Wiping, polishing, and cleaning cloths. Massasoit Manufacturing Company. No. 152,134; Nov. 8.
Wool-oil. U. S. Oil & Supply Co. No. 141,611; Nov. 8.
Wrenches. Shuster Engineering Corporation. No. 149,782; Nov. 8.
Wrenches, tool-holders, lathe-dogs, clamps. J. H. Williams & Co. No. 150,382; Nov. 8.

CLASSIFICATION OF PATENTS

ISSUED NOVEMBER 8, 1921.

NOTE.—First number—class, second number—subclass, third number—patent number.

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139— 46: 1,396,555
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141— 9: 1,396,466
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148— 4: 1,396,052
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171— 96: 1,396,350
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193— 1: 1,396,116
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226— 1: 1,396,642
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235— 79: 1,396,662
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29: 1,396,450
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28: 1,396,573
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275— 5: 1,396,105
276— 6: 1,396,202
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ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 15TH DAY OF NOVEMBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Aannerud, Sigurd A., Asker, near Christiania, and B. F. Halvorsen, assignors to Norsk Hydro-Elektrisk Kvaelstofaktiemelskab, Christiania, Norway. Impregnating composition and the production thereof. No. 1,397,197; Nov. 15.

Abel, John W., Chicago, Ill. Rope-holder. No. 1,397,120; Nov. 15.

Adams, Granville, Hamilton, Ohio. Tie-plate and clamp. No. 1,396,805; Nov. 15.

Adams, James V., Yowell, Tex. Cutter and roller. No. 1,397,391; Nov. 15.

Adamson, David R., Brooklyn, N. Y. Violin-playing attachment for pianos, pipe-organs, or similar instruments. No. 1,397,479; Nov. 15.

Akitt, Norman B. (See Peters, John J., assignor.)

Aktiebolaget C. E. Johansson. (See Westerberg, Carl A., assignor.)

Aktiebolaget Svenska Kullagerfabriken. (See Palmgren, Nils A., assignor.)

Albany Boot Corporation. (See Gardner, Elliott, assignor.)

Albi, Frank. (See Copelli, A., and Albi.)

Alchin, Albert E., Perth Amboy, N. J. Machine for cutting blocks into smaller sizes. No. 1,397,198; Nov. 15.

Alldis, Frederick L. (See Crosby, O. J., and Alldis.)

Allen, Arthur M., New Brighton, N. Y. Multiple-geared velocipede. No. 1,397,068; Nov. 15.

Almstrum, Edwin B., Grand Island, Nebr. Chip-catcher for tools. No. 1,396,909; Nov. 15.

Amend, George C., Des Moines, Iowa. Combined cooler display-case and refrigerator. No. 1,397,392; Nov. 15.

American Balsa Company. (See Twombly, A. H., Lundin, and Marr, assignors.)

American Chain Company. (See Hoover, Thomas A., assignor.)

American District Telegraph Company. (See Hopkins, Richard M., assignor.)

American Laundry Machinery Company, The. (See Braley, Charles L., assignor.)

American Laundry Machinery Company, The. (See Snow, Arthur E., assignor.)

American Laundry Machinery Company. (See Waream, Charles E., assignor.)

American Mine Door Company, The. (See Dillon, James F., assignor.)

American Optical Company. (See Maynard, Albert E., assignor.)

American Paper Goods Company, The. (See Cooley, Henry B., assignor.)

American Platinum Works. (See Engel, Fred J., assignor.)

American Potash Corporation. (See Charlton, Harry W., assignor.)

American Pretzel Company. (See Robbins, James G., assignor.)

American Smelting & Refining Co. (See Mathers, Frank C., assignor.)

American Standard Tool Company. (See Wiard, Frederick, assignor.)

American Telephone and Telegraph Company. (See Espenschied, Lloyd, assignor.)

American Telephone and Telegraph Company. (See Gherardi, Bancroft, assignor.)

American Telephone and Telegraph Company. (See Nyquist, Harry, assignor.)

American Tobacco Company. (See Hill, George W., assignor.

American Valve & Meter Company, The. (See Anderson, Frank C., assignor.

Ames, Bradford L., Boston, assignor to T. H. Ames, Barnstable, Mass. Smoke-preventer. No. 1,397,155; Nov. 15.

Ames, Thankful H. (See Ames, Bradford L., assignor.)

Anderson-Barngrover Mfg. Co. (See Thompson, Albert E., assignor.)

Anderson, Frank C., assignor to The American Valve & Meter Company, Cincinnati, Ohio. Double automatic latch for switch-stands. No. 1,396,946; Nov. 15.

Angulo, Alexander, *et al.* (See Sanchez, Leonardo, assignor.)

Annable, George A., New York, N. Y. Book-frame and label-holder. No. 1,396,910; Nov. 15.

Anselmi, Carlos, and M. Viturro, Buenos Aires, Argentina. Means for intermittently feeding the films in cinematographic apparatus. No. 1,396,911; Nov. 15.

Apple, Vincent G., Dayton, Ohio. Dynamo-electric machine. No. 1,396,947; Nov. 15.

Arbuckle, Samuel F., Indianapolis, assignor to United States Automotive Corporation, Connersville, Ind. Automobile-headlight apparatus. No. 1,397,393; Nov. 15.

Arnold, George W., Denver, Colo. Ore-separator. No. 1,397,480; Nov. 15.

Asbury, Dorsey F., Washington, D. C. Explosive-engine. No. 1,396,912; Nov. 15.

Asbury, Harry E., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Bottle-capping machine. No. 1,397,394; Nov. 15.

Athol Manufacturing Company. (See Mitchell, Rowland B., assignor.)

Atwood, George F., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Cable-reeling apparatus. No. 1,396,721; Nov. 15.

Auto-Ordnance Corporation. (See Eickhoff, Theodore H., assignor.)

Auto-Ordnance Corporation. (See Graham, Oliver B., assignor.)

Auto-Ordnance Corporation. (See Payne, Oscar V., assignor.)

Automatic Electric Company. (See Truby, Franklin J., assignor.) (Reissue.)

Avery, Walter S., Knoxville, Tenn. Pincheock. No. 1,397,481; Nov. 15.

B-V Milking Machine Company. (See Bodeker, Henry F., assignor.)

Bachle, Andrew, Detroit, Mich. Manifold for internal-combustion engines. No. 1,397,482; Nov. 15.

Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Purification of crystals containing foreign materials of a different specific gravity therefrom. No. 1,397,121; Nov. 15.

Bacon, James, Los Angeles, Calif. Auxiliary air-intake for internal-combustion engines. No. 1,397,349; Nov. 15.

Bader, Walter, Manchester, assignor to Levinstein Limited, Blackley, Manchester, England. Production of aminoalkylesters and of alkylaminoalkylesters of para-aminobenzoic acid. No. 1,396,918; Nov. 15.

Baechtel, Warren M., *et al.* (See Myers, Jacob S., assignor.)

Baker, Charlie B., Amory, Miss. Toothbrush-holder. No. 1,397,350; Nov. 15.

Baker, Harold T., assignor to The Management, Engineering and Development Company, Dayton, Ohio. Hood-insulating means for drying-machines. No. 1,397,309; Nov. 15.

Baker, James H., Saratoga Springs, N. Y. Winder-shaft. No. 1,397,310; Nov. 15.

Balderson, David N., Philadelphia, Pa., assignor, by mesne assignments, to Electro Dynamic Company. Generator suspension. No. 1,397,122; Nov. 15.

Baldwin Locomotive Works, The. (See Wallace, Allen, assignor.)

Ballard, Herbert T., Norristown, Pa. Knitting-machine and fabric, (spot effect.) No. 1,397,069; Nov. 15.

Ballard, Herbert T., Norristown, Pa. Knitting-machine. No. 1,397,070; Nov. 15.

Balliet, Herbert S. (See Solan, P. F., and Balliet.)

Balmos, Edward J., Devine, Tex. Steering attachment for automobiles. No. 1,396,722; Nov. 15.

Barbe, Auguste L., Asnières, France. Manufacture of a white pigment. No. 1,396,914; Nov. 15.

Barber, Claire S. (See Richardson, B. J., and Barber.)

Barneck, Russell E., Minneapolis, Minn. Clothespin. No. 1,397,199; Nov. 15.

Barry, Garret J., Sandusky, Ohio. Electric train-signal. No. 1,397,351; Nov. 15.

Barta, Joseph, Martins Ferry, Ohio. Lamp-holder for miners' caps. No. 1,397,200; Nov. 15.

Barthels Manufacturing Company. (See Wiberley, Frank, assignor.)

Bass, Thomas G., Spur, Tex. Axle-lubricator. No. 1,397,352; Nov. 15.

Bastian Blessing Company, The. (See Bastian, C. L., and Mathisen, assignors.)

Bastian, Charles L., and H. Mathisen, assignors to The Bastian Blessing Company, Chicago, Ill. Combination draft-arm. No. 1,396,915; Nov. 15.

Bates, Harry E. (See Samuels, J. D., and Bates.)

Bauers, Clarence D. (See Miller, Frank W., assignor.)

Baumann, Alfred, Cassel, Germany. Optical instrument. No. 1,397,156; Nov. 15.

Beals, Charles C., St. Louis, Mo. Dimension indicator and marker. No. 1,396,806; Nov. 15.

Bebry, Percival B., assignor to The Englander Spring Bed Company, Brooklyn, N. Y. Hammock. No. 1,397,201; Nov. 15.

Beck, William H. (See Benbow, P. D., and Beck.)

Becker, Benjamin V., *et al.*, trustees. (See Stephenson, Leigh J., assignor.)

Becker, Rudolph, Roselle Park, N. J., assignor to The Singer Manufacturing Company. Feeding mechanism for sewing-machines. No. 1,397,071; Nov. 15.
Beehler, William H., Baltimore, Md. Detachable fastening for umbrellas and the like. No. 1,397,190; Nov. 15.
Benbow, Percy D., and W. E. Beck, Wheaton-Salem, N. C. Stopping device for steering apparatus. No. 1,397,511; Nov. 15.
Benedict, George H., Schenectady, N. Y. Extensometer. No. 1,397,080; Nov. 15.
Bennett, Conrad E., Worcester, Mass. Scale and grain-sampler. No. 1,396,916; Nov. 15.
Berg, Charles, Brooklyn, N. Y. Paint and making the same. No. 1,396,986; Nov. 15.
Berger, Fred, assignor of one-half to E. L. McManus, Jr., New York, N. Y. Electric drive for vehicles. No. 1,397,353; Nov. 15.
Bernard, Pierre B., *et al.* (See Miet, Hubert F. H. G., assignor.)
Bernstein, Harris, New York, N. Y. Reinforcing-plate for automobile-bumpers. No. 1,397,384; Nov. 15.
Berry, William G., London, England. Automatic multiple-spindle lathe. No. 1,396,907; Nov. 15.
Best, Alexander G., Vineland, N. C. Radius-rod connection. No. 1,397,157; Nov. 15.
Bickley, James C. (See Gray, E., and Bickley.)
Billon, Frédéric. (See Schneider, J., Hurlimann, and Billon.)
Birstler, Daniel, Westchester, N. Y. Dumping-wagon. No. 1,397,355; Nov. 15.
Bixler, William H. H., Philadelphia, Pa., assignor to de Sanno & Hoskins. Dental sealer. No. 1,397,305; Nov. 15.
Black, Walter G., Whittier, Calif. Oil-well machinery comprising the spring-bail elevator. No. 1,397,072; Nov. 15.
Blair, Chauncey M. (See Sabbatie, William M., assignor.)
Blessard, Richard E. (See Reynolds, R. H., and Blessard.)
Blood, Harold L., Plainfield, N. J., assignor to Nixo-Bement-Pond Company, New York, N. Y. Planer and system of motor control therefor. No. 1,397,206; Nov. 15.
Bodeker, Henry F., assignor to B.-V. Milking Machine Company, Milwaukee, Wis. Milking-machine. No. 1,396,987; Nov. 15.
Boerner, Arne, Scheveningen, Netherlands. Propeller for aircraft. No. 1,396,917; Nov. 15.
Bopp, Amos. (See Forsyth, J. L., and Bopp.)
Borelli, Dott. V., & Co., *et al.* (See Bruna, Giacomo, assignor.)
Bostian, Benjamin W., Pendleton, Ind. Windmill. No. 1,397,061; Nov. 15.
Botwright, Frederick C., Philadelphia, Pa. Bag-handle hinge. No. 1,397,250; Nov. 15.
Bowman, Joe M., Tipton, Iowa. Piston-groove-cleaning tool. No. 1,397,212; Nov. 15.
Boyce, John N., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Collapsible core. No. 1,397,078; Nov. 15.
Baynes, Nathan, Webster City, Iowa. Polish for stoves and other articles. No. 1,397,297; Nov. 15.
Brace, Porter H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Making seamless tubing. No. 1,396,916; Nov. 15.
Brace, Porter H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic operation of electrolytic cells. No. 1,396,919; Nov. 15.
Bracken, Stanley. (See Jillard, A. G., and Bracken.)
Bradford Dyers Association Limited. (See Thornber, John, assignor.)
Bradnack, John H., New Haven, Conn. Fuse. No. 1,396,988; Nov. 15.
Brainard, William S., Rochester, assignor of one-half to J. L. Meader, Gonic, N. H. Door-lock. No. 1,397,074; Nov. 15.
Braley, Charles L., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Pressing-machine. No. 1,397,302; Nov. 15.
Brauch, Oscar. (See Smith, Edwin L., assignor.)
Braun Company, The. (See Braun, William F. H., assignor.)
Braun, William F. H., assignor to The Braun Company, Philadelphia, Pa. Slicing-machine. No. 1,397,158; Nov. 15.
Breitenstein, Albert F., assignor to The Geometric Tool Co., New Haven, Conn. Die-head for cutting taper and straight threads. No. 1,396,960; Nov. 15.
Bridgeport Brass Company. (See Limont, Alexander W., assignor.)
Bridges, Elzia B., Remmel, Ark. Gin-saw filer. No. 1,397,075; Nov. 15.
Briscoe Manufacturing Company. (See Groehn, O. J., and Alldis, assignors.)
Bronander, Wilhelm B., Montclair, N. J. Cutting-tool. No. 1,397,357; Nov. 15.
Bronander, Wilhelm B., Montclair, N. J. Die-press. No. 1,397,358; Nov. 15.
Brookshire, Elijah B., Eldorado, Kans. Resilient tire. No. 1,397,359; Nov. 15.
Brostrom, Edward E., Los Angeles, Calif. Measuring concealed objects. No. 1,396,920; Nov. 15.
Brown, Albert W., assignor to C. H. E. Brown, Fullerton, Calif. Drive-clamp. No. 1,396,921; Nov. 15.
Brown, Albert W., assignor to C. H. E. Brown, Fullerton, Calif. Pump-barrel. No. 1,396,922; Nov. 15.
Brown, Caroline H. E. (See Brown, Albert W., assignor.)
Brown Company. (See Parker, Howard, assignor.)
Brown, John W., Jr., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Meat-chopper. No. 1,397,398; Nov. 15.
Brown, Rollie A., Pacific Grove, Calif. Monument. No. 1,397,432; Nov. 15.
Browne, Rachel E. (See Jones, James I., assignor.)
Brumbaugh, John H., Chicago, Ill., assignor to General Fire Extinguisher Company, Providence, R. I. Valve-controlling device. No. 1,396,808; Nov. 15.
Bruna, Stephen J., U. S. Navy. Coin-handling apparatus. No. 1,396,946; Nov. 15.
Brunswick-Balke-Collender Company, The. (See Judd, Harriday C. B., assignor.)
Bruna, Giacomo, assignor to Giacomo Bruna and The Dott. V. Borelli & Co., Turin, Italy. Manufacture of mercuric oxid. No. 1,397,076; Nov. 15.
Bruna, Giacomo, *et al.* (See Bruna, Giacomo, assignor.)
Bubb, Harry A., Williamsport, Pa. Gas-burner. No. 1,397,077; Nov. 15.
Buchman, Henry H., Jacksonville, Fla. Producing composite titanium pigments. No. 1,396,924; Nov. 15.
Buda Company, The. (See Fowkes, W. H., and Harkless, assignors.)
Buda Company. (See Fowkes, William H., assignor.)
Buda Company, The. (See Harkless, Merl J., assignor.)
Bugbee, Lucian W., assignor to Ouopiece Mineral Lens Company, Indianapolis, Ind. Means for polishing multifocal lenses. No. 1,397,399; Nov. 15.
Bundy, Harry W., Detroit, Mich. Steering-wheel. No. 1,396,908; Nov. 15.
Burns, John F., St. Louis, Mo. Jar and apparatus for cold-pack canning fruits and vegetables. No. 1,396,723; Nov. 15.
Burrage, George B., *et al.*, trustees. (See Stephenson, Leigh J., assignor.)
Burrell, Ernest C., Chicago, Ill. Power-transmission belt. No. 1,396,925; Nov. 15.
Burrill, Elvyn F., Berkeley, Calif. Aerial apparatus or flying-machine. No. 1,397,400; Nov. 15.
Burroughs, Charles F., East Orange, assignor to Composition Machinery Corporation, Newark, N. J. Float for valve regulator and making the same. No. 1,396,926; Nov. 15.
Busch, Charles H., assignor to Simmons Company, Kenosha, Wis. Metal bedstead. No. 1,397,209; Nov. 15.
Busch-Sulzer Bros.-Diesel Engine Company. (See Tacchella, Adolf, assignor.)
Bushnell, James M., assignor to Kakichi Nakamura, Chicago, Ill. Can-opener. No. 1,396,961; Nov. 15.
Butt, Henry, Versailles, Ohio. Wrench. No. 1,397,262; Nov. 15.
Butterworth, Arthur, A., Jr., and H., Rochdale, England. Clutch. No. 1,397,401; Nov. 15.
Butterworth, Arthur, Jr. (See Butterworth, Arthur, A., Jr., and H.)
Butterworth, Harold. (See Butterworth, Arthur, A., Jr., and H.)
Cadillac Motor Car Company. (See White, D'Orsay M., assignor.)
California Alkali Company. (See Hirschkind, Wilhelm, assignor.)
Camoll, Ramon, Rhône, L. Cochet and J. Gritte, Lyon, assignors to Societe Lyonnaise Des Rechauds Catalytiques, Camoll, Cochet, Gritte & Cie. (Societe en commandite), Caluire, Rhône, France. Apparatus for heating by catalysis. No. 1,396,899; Nov. 15.
Cameron, James A., assignor to Taprell Loomis & Company, Chicago, Ill. Easel. No. 1,396,724; Nov. 15.
Campbell, Edward A., Kenosha, Wis. Combination gas stove and burner. No. 1,397,100; Nov. 15.
Campbell, Sterling H., St. Louis, Mo. Coupling-release rigging. No. 1,396,725; Nov. 15.
Campbell, Sterling H., St. Louis, Mo. Coupling-release rigging. No. 1,396,726; Nov. 15.
Campion, George W., Owen Sound, Ontario, Canada. License-plate. No. 1,397,032; Nov. 15.
Canniff, William L., Janesville, Wis., assignor to General Motors Corporation, Detroit, Mich. Tractor-hitch. No. 1,396,927; Nov. 15.
Capewell Horse Nail Company. (See Cutter, Solomon M., assignor.)
Carlson, Hjalmar G., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass. Making handles and the like. No. 1,397,360; Nov. 15.
Carmody, Harold J., Brooklyn Manor, assignor of one-half to J. A. Faurot, New York, N. Y. Whistle. No. 1,397,263; Nov. 15.
Caroland, Stonewall J., Woodlawn, Tenn. Hoop-coiling machine. No. 1,397,402; Nov. 15.
Carpenter, Arthur H., assignor to The Colorado Vanadium Corporation, Sawpit, Colo. Recovering vanadium. No. 1,396,992; Nov. 15.
Carroll, Arthur W., and G. P. Steddard, Seattle, Wash. Trolley-pole. No. 1,396,928; Nov. 15.
Carson, Clarence, New Rochelle, N. Y., assignor to H. W. Johns-Manville Company. Roofing-clamp. No. 1,397,083; Nov. 15.
Carson, Geary E., Albany, N. Y. Running-board saddle. No. 1,396,727; Nov. 15.
Carter, Lionel A., assignor of one-third to J. J. Mullen and one-third to T. O. Moloney, St. Louis, Mo. Metal-severing apparatus. No. 1,396,998; Nov. 15.
Case & Martin Company. (See Ehrlich, William, assignor.)
Cate, Petrus Ten B., Arnhem, Netherlands. Hydraulic plant. No. 1,396,904; Nov. 15.

Catlin, Thomas S., Waveland, Ind. Animal-trap. No. 1,396,510; Nov. 15.
Champion Kerosene-Burner Company, The. (See Hill, Clarence A., assignor.)
Chapman, Pearsey R., St. Louis, Mo. Uncoiling and tension device. No. 1,397,253; Nov. 15.
Chastain, Harry W., New York, N. Y., assignor to American Potash Corporation. Reducing sludge to powder. No. 1,397,073; Nov. 15.
Chase, L. C., & Company. (See Vestine, Andrew O., assignee.)
Christenson, Edward. (See Miller, Andrew B., assignor.)
Christianson, Oscar L., and K. L. M. Gisiko; said Gisiko assignor of his entire right to E. A. Hedman, Stockholm, Sweden. Producing ammonium chlorid. No. 1,397,264; Nov. 15.
Christie, Alexander, Seattle, Wash. Pneumatic gun. No. 1,396,929; Nov. 15.
Christopher, William M., Tonawanda, N. Y. Clear-vision device for windshields. No. 1,396,729; Nov. 15.
Chrobak, Frank, Orient, Pa. Toilet article. No. 1,397,403; Nov. 15.
Chubb, Lewis W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical precipitating system. No. 1,396,811; Nov. 15.
Churchward, Alexander, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc. Pressure variable resistance. No. 1,397,241; Nov. 15.
Cincinnati Aluminum Casting Company. (See Kaefer, John G., assignor.)
Cincinnati Milling Machine Company, The. (See Haselton, Robert T., assignor.)
Clark Equipment Company. (See Williams, Alfred O., assignor.)
Clarke, John A., Jr., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,396,812; Nov. 15.
Clarke, Michael J. (See Clarke, Peter J. and M. J.)
Clarke, Peter J. and M. J., Chicago, Ill. Leashing-cutter. No. 1,397,362; Nov. 15.
Clausen, Henry P., Mount Vernon, and C. L. Goodrum, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,396,730; Nov. 15.
Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,397,034; Nov. 15.
Clemetson, Tobias, Duluth, Minn. Pack-sack. No. 1,397,161; Nov. 15.
Cochet, Laurent. (See Camoll, R., Cochet, and Gritte.)
Cohen, Leo, Mount Vernon, N. Y. Detachable indicator for merchandise. No. 1,397,079; Nov. 15.
Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric air-heater. No. 1,396,813; Nov. 15.
Cole, Arthur D. (See Geiger, David F., assignor.)
Cole, Lowell B., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Insulating end plate. No. 1,397,363; Nov. 15.
Cole, Robert C., assignor to The Johns-Pratt Company, Hartford, Conn. Cartridge-fuse. No. 1,396,731; Nov. 15.
Coles, Henry L., Hamilton, Ohio, assignor to Niles-Bement-Pond Company, New York, N. Y. Composition for the treatment of cast-iron. No. 1,397,404; Nov. 15.
Coles, Wilfred G., assignor to Madison Kipp Corporation, Madison, Wis. Lubricator. No. 1,397,036; Nov. 15.
Coles, Wilfred G., Madison, Wis. Lubricator. No. 1,397,037; Nov. 15.
Coleman, Charles S., Los Angeles, Calif. Boiler-tube and end-plate connection. No. 1,397,089; Nov. 15.
Colorado Vanadium Corporation, The. (See Carpenter, Arthur H., assignor.)
Colosimo, Thomas, Gary, Ind. Building-block. No. 1,397,038; Nov. 15.
Commercial Savings Bank and Trust Company, The. (See Edwards, George W., assignor.)
Composition Machinery Corporation. (See Burroughs, Charles F., assignor.)
Compton, James T., Pixley, Calif. Land scraping and leveling machine. No. 1,397,365; Nov. 15.
Concrete Piling Ltd. (See Leighton, John M., assignor.)
Consolidated Car-Heating Company. (See Hynes, Lee F., assignor.)
Consolidated Car-Heating Company. (See Oakley, George E., assignor.)
Continental Can Company. (See White, Edwin, assignor.)
Convert, Linus M., Peoria, Ill. Ferm-lifter. No. 1,397,241; Nov. 15.
Coo, Thomas J., Toronto, Ontario, Canada. System of locking automobiles. No. 1,397,484; Nov. 15.
Cook, Albert E., Evanston, Ill. Chain-cutter for reapers. No. 1,397,364; Nov. 15.
Cook, Albert E., Evanston, Ill. Circular-disk reaper. No. 1,397,365; Nov. 15.
Cook, Albert E., Evanston, and T. Van Tuyl, Kankakee, Ill.; said Van Tuyl assignor to said Cook. Speed-reduction wheel. No. 1,397,366; Nov. 15.
Cooley, Frank L., Brooklyn, N. Y. Commutator-brush. No. 1,396,948; Nov. 15.
Cooley, Henry B., assignor to The American Paper Goods Company, Kensington, Conn. Dispensing apparatus. No. 1,396,905; Nov. 15.
Cooper, Joseph H., Chicago, Ill. Burning comminuted fuel. No. 1,397,266; Nov. 15.
Copelli, Alfred, and F. Albi, Spokane, Wash. Register for firearms. No. 1,397,213; Nov. 15.
Copeman, Lloyd G., Flint, Mich. Refrigerating apparatus. No. 1,396,906; Nov. 15.
Cory, Charles, & Son. (See Wood, Frank W., assignor.)
Costello, Thomas J., Warren, Ohio. Continuous heating-furnace. No. 1,397,367; Nov. 15.
Cowell, Frank H., assignor to The Ralston Steel Car Company, Columbus, Ohio. Car-body. No. 1,397,081; Nov. 15.
Cox, Abraham B., Cherry Valley, N. Y. Tractor. No. 1,397,314; Nov. 15.
Cox Brass Manufacturing Company. (See Cox, William G., assignor.)
Cox, Claude E., Detroit, Mich. Liquid-level indicator. No. 1,397,267; Nov. 15.
Cox, Cyril C., Denver, Colo. Transportation system. No. 1,397,242; Nov. 15.
Cox, George B., Wilmington, Del. Replaceable facing and pins therefor. No. 1,397,082; Nov. 15.
Cox, William G., Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y. Automobile-bumper. No. 1,397,215; Nov. 15.
Cramer, Louis W., St. Joseph, Mo. Flashlight. No. 1,396,732; Nov. 15.
Cramer, Morris, Cleveland, Ohio. Dieblock. No. 1,397,243; Nov. 15.
Crawford, Fred, Prosser, Wash. Guard-finger. No. 1,396,907; Nov. 15.
Cullin, Jasper F., assignor to W. J. Hartwig, Detroit, Mich. Coil-winder. No. 1,397,316; Nov. 15.
Cummings, John E., Wyoming, R. I. Cultivator-hoe. No. 1,396,733; Nov. 15.
Curley, Robert S., Lowell, assignor to Saco-Lowell Shops, Boston, Mass. Angular driving mechanism. No. 1,397,244; Nov. 15.
Curran, Edward T., Detroit, Mich. Water-heater. No. 1,397,268; Nov. 15.
Cutter, Solomon M., assignor to Capewell Horse Nail Company, Hartford, Conn. Nail-string machine. No. 1,397,204; Nov. 15.
Dake, Charles W., assignor to Smith Locomotive Adjustable Hub Company, Chicago, Ill. Adjustable hub-plate. No. 1,397,083; Nov. 15.
Dake, Charles W., assignor to Smith Locomotive Adjustable Hub Company, Chicago, Ill. Adjustable hub-plate. No. 1,397,084; Nov. 15.
Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Nozzle guide-passage. No. 1,397,085; Nov. 15.
Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Steam-turbine and governor. No. 1,397,086; Nov. 15.
Daree Corporation. (See Mumford, Russell W., assignor.)
Davidson, Ethan B., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for making sheets of plastic composition. No. 1,397,087; Nov. 15.
Davis, William H., *et al.* (See Rollins, William T., assignor.)
Dawson, Richard T. (See Scribner, William L., assignor.)
De Sanno & Hoskins. (See Bixler, William H. H., assignor.)
De Vane, William G., Trilby, Fla. Grip-shoe for vehicle-tires. No. 1,397,400; Nov. 15.
De Voe, Albert E., Westfield, N. J., assignor to The Singer Manufacturing Company. Power-transmitter. No. 1,397,085; Nov. 15.
Dean, Thomas, Indianapolis, Ind. Pasting device. No. 1,397,086; Nov. 15.
Dear, William Y., Jersey City, N. J. Calendar-pad and mount therefor. No. 1,396,814; Nov. 15.
Dedik, Yuraj, Boswell, Pa. Ship-protector. No. 1,397,305; Nov. 15.
Dee, William C., Cleveland, Ohio. Switch mechanism for X-ray machines. No. 1,396,815; Nov. 15.
Demarest, Thomas W., Pittsburgh, Pa. Journal-box lubricator. No. 1,396,734; Nov. 15.
Dentists' Supply Company, The. (See Williams, James L., assignor.)
Derrick, Horace M., Malheur, Oreg. Plow. No. 1,396,816; Nov. 15.
Desrange, Alphonse, assignor to Societe Anonyme Ateliers Otis-Pifre, Paris, France. Hope conveyor. No. 1,397,368; Nov. 15.
Devienne, Fernand, Paris, France. Apparatus for the rapid application of cupping-glasses, suction-cups, &c. No. 1,397,038; Nov. 15.
Desenderf, Richard L., Richmond Hill, N. Y. Means for and method of testing gas-meters. No. 1,396,817; Nov. 15.
Diamond, Morris, Caldwell, N. J. Handbag. No. 1,397,369; Nov. 15.
Dickerman, Walter H., Muskegon, Mich., assignor, by mesne assignments, to E. J. Koehler, New York, N. Y. Treating waste sulfite liquors and product obtained therefrom. No. 1,397,039; Nov. 15.
Diehl, Walter J., St. Louis, Mo. Auxiliary seat. No. 1,397,089; Nov. 15.
Dillon, James F., Crown City, Ohio, assignor to The American Mine Door Company. Cable-splice. No. 1,397,040; Nov. 15.
Dimas, Frederick M., Baltimore, Md. Device for adjustable mouth-mirrors. No. 1,397,090; Nov. 15.

Diskin, Moses B., New York, N. Y. Corrugated-board-making machine. No. 1,396,818; Nov. 15.

Dobbins, Michael G., Philadelphia, Pa. Soap-bubble device. No. 1,397,162; Nov. 15.

Dodds, Thomas, Thessalon, Ontario, Canada. Invalid-bed. No. 1,397,041; Nov. 15.

Dodge, Parker, Washington, D. C., assignor to The Johnson Service Co., Milwaukee, Wis. Thermostat and similar control device. No. 1,397,407; Nov. 15.

Dodge, Zenas U., New York, N. Y. Knockdown refrigerating-box. No. 1,397,269; Nov. 15.

Dolder, Edward H., Serena, Ill. Washing-machine. No. 1,397,270; Nov. 15.

Dory, Joseph, St. Maurice, La. Saw-clamp. No. 1,396,818; Nov. 15.

Douglass, Andrew C., Sonoma, Calif. Turbine-pump. No. 1,396,820; Nov. 15.

Douglass, Richard W., West New Brighton, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Heat-exchanger. No. 1,397,091; Nov. 15.

Dow Chemical Company, The. (See Putnam, Mark E., assignor.)

Dorford, Robert P. (See Keller, Karl O., assignor.)

Doyle, Ashton B., Johnson City, Tenn. Trousers-stretcher. No. 1,396,735; Nov. 15.

Drew, William F., and B. V. Korvin-Kroukovsky, San Francisco, Calif. Planetary transmission. No. 1,396,821; Nov. 15.

Drucker, William J., Woodhaven, assignor, by mesne assignments, to National Mayonnaise Machine Company, Inc., Brooklyn, N. Y. Coupling. No. 1,397,370; Nov. 15.

Du Pont, Francis I., Wilmington, Del. Smokeless shot-gun-powder. No. 1,397,042; Nov. 15.

Dudley, James R., Bessemer, Ala. Railway-switch-operating mechanism. No. 1,397,408; Nov. 15.

Dunlop Rubber Company, The. (See Macbeth, C., and Fellowes, assignors.)

Dunnebier, Max. (See Winkler, A., and Dunnebier.)

Dura Mechanical Hardware Company. (See Lawrence, John D., assignor.)

Duwellius, Walter S., Cincinnati, Ohio. Equalizing attachment for vise-jaws. No. 1,397,409; Nov. 15.

Dwyer, William P., West Flamboro, Ontario, Canada. Safety device for automobiles. No. 1,397,043; Nov. 15.

Dyer, Cecil M., Kew, Melbourne, Victoria, Australia. Starter for internal-combustion engines. No. 1,396,736; Nov. 15.

Eastman Kodak Company. (See Mees, Charles E. K., assignor.)

Eckart, George F., Cincinnati, Ohio. Worm-gear drive. No. 1,397,317; Nov. 15.

Eckenroth, John P., deceased, Chester, Pa.; M. A. Eckenroth, executrix. Rolling-mill for bending angle or channel iron into different angles. No. 1,397,271; Nov. 15.

Eckenroth, Mary A., executrix. (See Eckenroth, John P.)

Edwards, Ernest W., Carshalton, England. Body for motor-cars and other motor and railway vehicles. No. 1,396,737; Nov. 15.

Edwards, George W., assignor to The Commercial Savings Bank and Trust Company, Toledo, Ohio. Automatic train-stopping device. No. 1,397,123; Nov. 15.

Ehrlich, William, assignor to Case & Martin Company, Chicago, Ill. Pie-making machine. No. 1,397,272; Nov. 15.

Eickhoff, Theodore H., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Automatic gun. No. 1,396,949; Nov. 15.

Electro Dynamic Company. (See Balderston, David N., assignor.)

Ellinger, William H., Wichita Falls, Tex. Well-drill wrench. No. 1,397,044; Nov. 15.

Ellis, Carleton, Montclair, N. J. Making gasolene substitute. No. 1,396,999; Nov. 15.

Emerson-Brantingham Company. (See Traphagen, Harry R., assignor.)

Endicott, Claude H., Bayard, Nebr. Box-car-door hanger. No. 1,397,410; Nov. 15.

Engel, Albert W., Chicago, Ill. Loose-leaf envelop-album. No. 1,397,000; Nov. 15.

Engel, Fred J., assignor to American Platinum Works, Newark, N. J. Safety-catch for pins. No. 1,397,092; Nov. 15.

Englander Spring Bed Company, The. (See Behry, Percival E., assignor.)

Enright, John W., New Orleans, La. Stationary chemical-mixing fire-extinguisher system. No. 1,397,411; Nov. 15.

Enterprise Manufacturing Company of Pennsylvania, The. (See Asbury, Harry E., assignor.)

Enterprise Manufacturing Company of Pennsylvania, The. (See Brown, John W., Jr., assignor.)

Erickson, Claus E., Des Moines, Iowa. Thermometer protector and shipping-guard. No. 1,397,412; Nov. 15.

Espenschied, Lloyd, Hollis, N. Y., assignor to American Telephone and Telegraph Company. Radiorepeating system. No. 1,397,093; Nov. 15.

Etchison, Eunice C., Fairfax, Ala. Safety attachment. No. 1,397,371; Nov. 15.

Ettinger, Wallace J., Chicago, Ill. Switch-operating device. No. 1,397,245; Nov. 15.

Eustis, Frederic A., Milton, Mass. Treating liquids used in industrial chemical processes. No. 1,397,094; Nov. 15.

Evans, Powell, Philadelphia, Pa. Casing for universal joints. No. 1,397,413; Nov. 15.

Everhart, Edgar, Atlanta, Ga. Purifying bauxite. No. 1,397,414; Nov. 15.

Fairbanks, Morse & Co. (See Hawthorne, Primm R., assignor.)

Faurot, Joseph A. (See Carmody, Harold J., assignor.)

Fellowes, Frank. (See Macbeth, C., and Fellowes.)

Fendry, Henry A., Ladysmith, Wis. Pulp-feed regulator. No. 1,397,415; Nov. 15.

Fenton, William T., et al., trustees. (See Stephenson, Leigh J., assignor.)

Ferraro, Michelangelo, Paterson, N. J. Hammer. No. 1,396,822; Nov. 15.

Fesler, Milton A., Oakland, Calif., assignor, by mesne assignments, to Petroleum Heat and Power Company. Oil-burner system. No. 1,396,823; Nov. 15.

Finley, Sam B., Atlanta, Ga. Apparatus for spraying binding media on roads. No. 1,397,045; Nov. 15.

Finn, Elmer E., Pocatello, Idaho. Egg-poacher. No. 1,397,318; Nov. 15.

Finn, Matthew J., Pittsburgh, Pa. Centrifugal pump. No. 1,397,273; Nov. 15.

Firman, Max, Brooklyn, N. Y. Lighting-fixture. No. 1,397,274; Nov. 15.

Fisher, Justine A., New York, N. Y. Hat-protector. No. 1,397,246; Nov. 15.

Fitzgerald, John J., Los Angeles, Calif. Gage device. No. 1,397,275; Nov. 15.

Fitzgerald, John W., Detroit, Mich. Storage-battery-testing instrument. No. 1,397,247; Nov. 15.

Flavell, Denis A., Jersey City, N. J. Work-supporting means for wire stitching or stapling machines. No. 1,396,950; Nov. 15.

Fleure, George J., Brooklyn, N. Y. Foot-operated pump for pneumatic tires. No. 1,397,416; Nov. 15.

Flexible Couplings Company. (See Thomas, George H., assignor.)

Fonline, Robert A., Martinsville, Va. Dump-truck. No. 1,396,738; Nov. 15.

Foote-Burt Company, The. (See Randles, George E., assignor.)

Forsyth, Joseph L., and A. Bopp, Baltimore, Md. Power mechanism. No. 1,396,824; Nov. 15.

Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Railway signaling system. No. 1,396,825; Nov. 15.

Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical distributing system. No. 1,396,826; Nov. 15.

Fowkes, William H., Chicago, Ill., assignor to Buda Company. Lifting-jack. No. 1,396,961; Nov. 15.

Fowkes, William H., Chicago, and M. J. Harkless, Harvey, Ill., assignors to The Buda Company. Lifting-jack. No. 1,396,962; Nov. 15.

Fowler, Clarence B., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,396,739; Nov. 15.

Frantz, Albert D., Battle Creek, Mich. Life-preserver. No. 1,397,248; Nov. 15.

French Battery & Carbon Co. (See Ruhoff, Otto E., assignor.)

French, Henry G., Schenectady, N. Y., assignor to General Electric Company. Protective device. No. 1,397,276; Nov. 15.

Frick, William J. (See Simmons, P. S., and Frick.)

Friedman, Louis, New York, N. Y. Multicolor-press. No. 1,396,827; Nov. 15.

Fulkerson, Joseph C., Marion, and L. B. Stuart, Cedar Rapids, Iowa. Bag-cleaner. No. 1,397,417; Nov. 15.

Fullem, Thomas J., Jr., et al. (See Heaton, John T., assignor.)

Futterer, Edward J., Buffalo, N. Y. System of operating safety appliances on electric cars and other vehicles. No. 1,397,205; Nov. 15.

Fynn, Valere A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Ignition-switch. No. 1,397,277; Nov. 15.

Fynn, Valere A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Speed-regulating apparatus. No. 1,397,278; Nov. 15.

Gallagher, George D., Washington, D. C., assignor to Winchester Repeating Arms Company, New Haven, Conn. Handlamp. No. 1,396,828; Nov. 15.

Gallagher, George D., Washington, D. C., assignor to Winchester Repeating Arms Company, New Haven, Conn. Handlamp-switch. No. 1,396,829; Nov. 15.

Gallagher, George D., Washington, D. C., assignor to Winchester Repeating Arms Company, New Haven, Conn. Handlamp-switch. No. 1,396,830; Nov. 15.

Ganelin, Solomon, Brooklyn, N. Y. Treating complex zinc-lead ores. No. 1,396,740; Nov. 15.

Gardner, Elliott, Colonie, assignor to Albany Boat Corporation, Watervliet, N. Y. Speed-boat. No. 1,396,831; Nov. 15.

Garner Gin Company, The. (See Garner, James C., assignor.)

Garner, James C., assignor, by mesne assignments, to The Garner Gin Company, Inc., Houston, Tex. Cotton-separator. No. 1,397,001; Nov. 15.

Garrett, Robert E., Nashville, Tenn. Gear-cutting machine. No. 1,397,372; Nov. 15.

Garrison, Perry J., Oxford, Mich. Means for cooling internal-combustion engines. No. 1,396,953; Nov. 15.

Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Trimming mechanism for sewing-machines. No. 1,397,002; Nov. 15.

Geer, Harry R., Johnstown, Pa. Rolling-mill lubrication. No. 1,397,163; Nov. 15.

Geiger, David F., assignor of one-third to A. D. Cole, Minneapolis, Minn. Means for operating power-transmitters. No. 1,396,954; Nov. 15.

Geiger, William A., Chicago, Ill., assignor to W. H. Miner, Chasy, N. Y. Door-check. No. 1,397,206; Nov. 15.

Gelineau, Wilfrid, Wadena, Saskatchewan, Canada. Grain-door for box-cars. No. 1,397,279; Nov. 15.

Gemmer, George A., Newark, N. J. Automobile-brake adjuster. No. 1,397,373; Nov. 15.

General Electric Company. (See French, Henry G., assignor.)

General Electric Company. (See Seede, John A., assignor.)

General Fire Extinguisher Company. (See Brumbaugh, John H., assignor.)

General Motors Corporation. (See Canniff, William L., assignor.)

General Motors Corporation. (See Lea, John M., assignor.)

General Motors Corporation. (See Madison, George E., assignor.)

General Motors Company. (See Short, Charles R., assignor.)

General Petroleum Corporation. (See Prutzman, Paul W., assignor.)

Geometric Tool Co., The. (See Breitenstein, Albert F., assignor.)

Gherardi, Bancroft, Bayhead, N. J., assignor to American Telephone and Telegraph Company. System for the equalization of transmission-lines. No. 1,396,930; Nov. 15.

Gilbert, Wm. L., Clock Company. (See Hodge, Albert P., assignor.)

Gilliam, Manly M., Flushing, N. Y. Device for burning vaporous or gaseous fuel. No. 1,397,003; Nov. 15.

Gisiko, Karl I. M. (See Christenson, O. L., and Gisiko.)

Glass, Arnold F., Birmingham, Ala. Gas-stove and fireless cooker. No. 1,397,207; Nov. 15.

Glenn, Peter F., Philadelphia, Pa. Household article. No. 1,397,249; Nov. 15.

Godfrey, John F., Elkhart, Ind. Hoist mechanism. No. 1,397,164; Nov. 15.

Good Inventions Co. (See Good, John, assignor.)

Good, John, Garden City, assignor to Good Inventions Co., New York, N. Y. Automobile-engine fuel-supply. No. 1,397,492; Nov. 15.

Goodrich, B. F., Company, The. (See Davidson, Elias E., assignor.)

Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone system. No. 1,396,741; Nov. 15.

Goodrum, Charles L. (See Clausen, H. P., and Goodrum.)

Goodyear, Edward T. P., Reigate Heath, England. Goggles. No. 1,397,250; Nov. 15.

Goodyear Tire & Rubber Company, The. (See Boyce, John N., assignor.)

Goodyear Tire & Rubber Company, The. (See Hartong, Robert C., assignor.)

Goodyear Tire & Rubber Company, The. (See Trogner, Roland S., assignor.)

Gow, Alexander M., Duluth, Minn. Locking mechanism for dump-cars. No. 1,397,165; Nov. 15.

Graf, Hubert M., Kansas City, Mo. Stepladder. No. 1,397,280; Nov. 15.

Graham, Oliver B., Cleveland, Ohio, assignor to Auto-ordnance Corporation, New York, N. Y. Gun. No. 1,396,832; Nov. 15.

Gram Headwear Mfg. Company. (See Yanow, Jacob, assignor.)

Gray, Albert J. (See Hebern, W., and Gray.)

Gray & Davis. (See Moses, William B., assignor.)

Gray, Clarence F. A., Montreal, Quebec, Canada. Pneumatic tire. No. 1,396,742; Nov. 15.

Gray, Eugene and J. C. Bickley, Stoughton, Wis.; said Bickley assignor to said Gray. Milk and cream testing apparatus. No. 1,396,743; Nov. 15.

Gray, Roy E., Philadelphia, Pa. Collar. No. 1,396,833; Nov. 15.

Griffiths, William U., Philadelphia, Pa. Valve-controlling means for water-closet apparatus. No. 1,397,208; Nov. 15.

Gritte, Joseph. (See Camell, R., Cochet, and Gritte.)

Groehn, Otto J., and F. L. Alidis, assignors to Briscoe Manufacturing Company, Detroit, Mich. Radiator. No. 1,396,931; Nov. 15.

Groesman, Simon, Pittsburgh, Pa. Suitcase. No. 1,397,374; Nov. 15.

Grunwald, Bertrand B., Seattle, Wash. Molding device. No. 1,397,375; Nov. 15.

Gurewitsch, Nathan, Weidling, near Klosterneuburg, Austria. Button-fastener. No. 1,397,376; Nov. 15.

Guy, Sydney S., Compton, near Wolverhampton, England, V-type internal-combustion engine. No. 1,396,744; Nov. 15.

H. & H. Patent Developing Company. (See Hebern, Edward H., assignor.)

Haas, Theron A., Toledo, Ohio. Foldable child's seat for automobiles. No. 1,397,281; Nov. 15.

Haddock, Arthur, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum-tube circuits. No. 1,396,745; Nov. 15.

Haines Products Company, The. (See Haines, Stacey A., assignor.)

Haines, Stacey A., assignor to The Haines Products Company, Cleveland, Ohio. Dripless faucet. No. 1,397,251; Nov. 15.

Hall, Arthur J., West Hartford, Conn. Coating reticulated forms. No. 1,396,834; Nov. 15.

Haller, John, Brooklyn, N. Y. Horseshoe. No. 1,397,046; Nov. 15.

Halter, Carl, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,396,746; Nov. 15.

Halvorsen, Birger F. (See Aannerud, S. A., and Halvorsen.)

Hamilton, Belton T., London, England. Mechanism for non-recoil breech-loading guns. No. 1,397,418; Nov. 15.

Hamilton, Harry B., Boston, Mass. Ankle-supporter. No. 1,397,005; Nov. 15.

Hammer, Cecil A., assignor of one-fourth to E. B. Sletmoe, Coeur d'Alene, Idaho. Ledger-sheet. No. 1,397,006; Nov. 15.

Hancock, Harry H., Swampscott, Mass. Extension furniture for printers. No. 1,397,485; Nov. 15.

Hancock, Harry H., Swampscott, Mass. Extension furniture for printers. No. 1,397,486; Nov. 15.

Hanff, Edward A., Irwin, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical system. No. 1,396,835; Nov. 15.

Hanley, John H., Jr., and J. L. Kreig, New York, N. Y. Fluid-heater. No. 1,397,282; Nov. 15.

Harasta, Joseph W., Los Angeles, Calif. Expanding-packing construction. No. 1,396,836; Nov. 15.

Harkless, Merl J., Harvey, Ill., assignor to The Buda Company. Brake mechanism for lifting-jacks. No. 1,396,955; Nov. 15.

Harkless, Merl J. (See Fowkes, W. H., and Harkless.)

Harkness, Newton L., Parsons, Kans. Railway-signal. No. 1,397,419; Nov. 15.

Harpham, George E., Los Angeles, Calif. Shock-absorber. No. 1,397,377; Nov. 15.

Harris, Daniel L., Wichita, Kans. Air-cooling systems for gas-engines. No. 1,397,047; Nov. 15.

Harrison, Henry C., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-receiver. No. 1,396,747; Nov. 15.

Harrison, James M., Cleveland, Ohio. Apparatus for heat-interchange. No. 1,397,097; Nov. 15.

Hartford, Edward V., Inc. (See Mayer, Arthur, assignor.)

Hartman, Ferdinand Q., Danville, Pa. Thread-breaking device for spinning-machines. No. 1,397,283; Nov. 15.

Hartong, Robert C., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Compounding of rubber compounds. No. 1,396,837; Nov. 15.

Hartwig, William J. (See Cullin, Jasper F., assignor.)

Haskelite Manufacturing Corporation. (See Meyercord, George R., assignor.)

Hatsings, Rolland T. R. (See Poppenhusen, H. A., and Hastings.)

Hawkinson, Paul E., Minneapolis, Minn. Process and apparatus for vulcanizing tires. No. 1,397,209; Nov. 15.

Hawley, Amos H., Norwood, Ohio, assignor to International Money Machine Company, Terre Haute, Ind. Accounting-machine with auxiliary printing appliance. No. 1,396,932; Nov. 15.

Hawthorne, Primm R., Milwaukee, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Tractor. No. 1,396,956; Nov. 15.

Hazelton, Robert T., Cincinnati, assignor to The Cincinnati Milling Machine Company, Oakley, Cincinnati, Ohio. Automatic table-lowering attachment. No. 1,397,210; Nov. 15.

Heaton, John T., assignor of one-half to T. J. Fullem, Jr., and one-half to P. P. Quinlan, Chicago, Ill. Mop. No. 1,397,284; Nov. 15.

Hebern, Edward H., assignor to H. & H. Patent Developing Company, Oakland, Calif. Turning-signal for automobiles. No. 1,397,211; Nov. 15.

Hebern, William, and A. J. Gray, Oakland, Calif., assignors to Security Anto Lock Co. Transmission-lock. No. 1,397,420; Nov. 15.

Hedman, Bros A. (See Christenson, O. L., and Gisiko, assignor.)

Heldbrink, Jay A., Minneapolis, Minn. Dental wax-warming device. No. 1,396,967; Nov. 15.

Heintsman, Edward A., Hoboken, N. J. Screwdriver. No. 1,396,748; Nov. 15.

Hellem, Nels, Portland, Oreg. Hand-truck. No. 1,397,098; Nov. 15.

Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Damping windings for dynamo-electric machines. No. 1,396,838; Nov. 15.

Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. High-voltage direct-current system. No. 1,396,839; Nov. 15.

Hensley, Charles G., Brooklyn, N. Y. Device for impressing sound-waves on diaphragms. No. 1,397,048; Nov. 15.

Herreshoff, Alexander G., and A. Lucand, assignor to International Motor Company, New York, N. Y. Wheel-brake. No. 1,396,958; Nov. 15.

Herskovits, Max, assignor to Peerless Light Company, Chicago, Ill. Electric-candle socket. No. 1,397,212; Nov. 15.

Heywood-Wakefield Company, et al. (See Travers, Lewis C., assignor.)

Higginbotham, Samuel H., Alhambra, Calif. Rupture appliance. No. 1,396,840; Nov. 15.

Hill, Clarence A., assignor to The Champion Enamel-Fuseur Company, Lima, Ohio. Non-refilling receptacle for kerosene-gas-generating apparatus. No. 1,397,048; Nov. 15.
Hill, Frank J., Sulphur, La. Method of and apparatus for treating sand hardening cotton. No. 1,397,227; Nov. 15.
Hill, George W., New York, N. Y., assignor to American Meter Company. Closure-seal. No. 1,396,700; Nov. 18.
Hill, Owen B., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling-generator. No. 1,396,750; Nov. 15.
Hirschfeld, Wilhelm, Cartaxo, assignor to California Alkali Company, San Francisco, Calif. Preparation of sodium sesquicarbonate. No. 1,396,841; Nov. 15.
Hodge, Albert P., assignor to Wm. L. Gilbert Clock Co., Winsted, Conn. Alarm-controlling mechanism. No. 1,396,942; Nov. 15.
Hoffer, John, Marianna, Pa. Safety mechanism for elevators. No. 1,396,781; Nov. 15.
Hoffer, John, Marianna, Pa. Safety device for elevator-cages. No. 1,396,782; Nov. 15.
Hoffer, John, Marianna, Pa. Safety device for elevator-cars. No. 1,396,783; Nov. 15.
Hofman, Joseph K., et al. (See Myers, Jacob S., assignor.)
Holden, David R., Peoria, Ill. Attaching means for broadcast distributers. No. 1,396,843; Nov. 15.
Holden, Joseph B., Utica, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,397,105; Nov. 15.
Holliday, William J. (See Schaf, J. C., Jr., and Holliday.)
Holmes, Gwyllym R., and W. J. Wisch, Baltimore, Md. Nut-lock. No. 1,397,262; Nov. 15.
Holtorp, Wilhelm, Hamburg, Germany. Circulating lubrication. No. 1,397,050; Nov. 15.
Hoover, Thomas A., Fresno, Calif., assignor to American Chain Company, Inc. Clamp for attaching buffers to vehicles. No. 1,397,213; Nov. 15.
Hopkins, Gordon A., Bradford, Pa. Clothesline-holder. No. 1,397,051; Nov. 15.
Hopkins, Richard M., Rutherford, N. J., assignor to American District Telegraph Company, New York, N. Y. Electric signal. No. 1,397,421; Nov. 15.
Hopper, Charles, Los Angeles, Calif. Inlay for repair of sprayed engine-cylinders and making same. No. 1,397,167; Nov. 15.
Hose, Titus S., Little Falls, N. Y. Wrench. No. 1,397,214; Nov. 15.
Hosking, Charles, Belgravia, Johannesburg, South Africa. Two-wheeled draft-vehicle. No. 1,396,704; Nov. 15.
Hotchkiss, E. H., Company, The. (See Muth, John, assignor.)
Hotchkiss, William S., and J. E. W. Sheehan, Memphis, Tenn. Hand-fired furnace. No. 1,397,422; Nov. 15.
Housh, Axel, Janesville, Wis. Shade appliance. No. 1,397,215; Nov. 15.
Hudon, Arthur, and P. W. Ward, assignors to Spartan Electrical Products Company, Limited, Ottawa, Ontario, Canada. Fire-detector. No. 1,397,004; Nov. 15.
Hudson Motor Specialties Company. (See Spire, Walter J., assignor.)
Hudson, Warren R., assignor to The Troy Wagon Works Company, Troy, Ohio. Steering device. No. 1,396,755; Nov. 15.
Huffman, Edwin E., St. Louis, Mo. Depth-indicating device. No. 1,396,944; Nov. 15.
Hugues, Louis J., assignor of one-half to O. F. Marcotte, Topeka, Kans. Hydraulic transmission. No. 1,396,756; Nov. 15.
Humphries, Clinton C., Norfolk, Va. Device for moistening and wringing compresses. No. 1,397,439; Nov. 15.
Hurlimann, Ernst. (See Schneider, J., Hurlimann, and Billon.)
Hynes, Lee P., assignor to Consolidated Car-Heating Company, Albany, N. Y. Door-control system. No. 1,396,757; Nov. 15.
Ingersoll-Rand Company. (See Douglass, Richard W., assignor.)
Ingle, Mark J., Washington, D. C. Carbonated ice-cream and making the same. No. 1,397,168; Nov. 15.
International Earth-Boring Machine Corporation. (See Moore, William E., assignor.)
International Money Machine Company. (See Bawley, Amos H., assignor.)
International Money Machine Company. (See Lutz, Belton L., assignor.)
International Motor Company. (See Horresheff, A. G., and Lucand, assignors.)
International Motor Company. (See Lucand, Alexander, assignor.)
Isachson, Norman, Albion, Idaho. Engine-timer. No. 1,397,608; Nov. 15.
Isenhour, Luther J., Indianapolis, Ind., assignor to J. Kim, Pittsburgh, and S. M. Sorber, Greensburg, Pa. Sanitary cover. No. 1,397,169; Nov. 15.
Jackson, Monroe, Lincoln, Ark. Conduit for timer-wires. No. 1,396,758; Nov. 15.
Jackson, Thomas B., Rogersville, Ala. Gun-sight. No. 1,397,378; Nov. 15.
Jackson, William O. (See Ray, Albert D., assignor.)
Jacobson, Jacob W., and J. E. Turja, Hancock, Mich. Cleaner for burners of carbid-lamps and the like. No. 1,397,170; Nov. 15.
Jacoby, Leo B., Winthrop, Mass., assignor, by mesne assignments, to Sanitary Products Corporation of America, Philadelphia, Pa. Sweeper-fastener. No. 1,396,935; Nov. 15.
James, Henry D., Riverside Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical switch. No. 1,396,845; Nov. 15.
Jarvis, Graham W., Charlottesville, Va. Automobile-signal. No. 1,397,424; Nov. 15.
Jarvis, Harold, Kenora, Ontario, Canada. Self-closing tap. (Reissue.) No. 15,229; Nov. 15.
Jex, John, Newark, Del. Pyrotechnic device. No. 1,397,425; Nov. 15.
Jesova, Mary, Wallis, Tex. Snowplow. No. 1,396,946; Nov. 15.
Jillard, Annis G., Berwyn, and S. Bracken, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Manufacture of insulating supporting-blocks. No. 1,396,760; Nov. 15.
Johns-Manville, H. W., Company. (See Carson, Clarence, assignor.)
Johns-Pratt Company, The. (See Cole, Robert C., assignor.)
Johnson, August I., Medford, Mass. Oiling system for automobiles. No. 1,396,959; Nov. 15.
Johnson, Francis T., Chicago, Ill. Drier. No. 1,397,100; Nov. 15.
Johnson, George A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Ladder. No. 1,397,216; Nov. 15.
Johnson, Kenneth S., Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., signaling-circuit. No. 1,396,760; Nov. 15.
Johnson Service Co., The. (See Dodge, Parker, assignor.)
Johnson, William C., Memphis, Tenn. Treating cotton fibers and products. No. 1,396,909; Nov. 15.
Jolla, Le Roy E., Elizabeth, N. J., assignor to Packard Motor Car Company, Detroit, Mich. Machine-tool. No. 1,397,006; Nov. 15.
Jonas, Otto W., Chicago, Ill. Stone-setting tool. No. 1,397,124; Nov. 15.
Jones, Frank E., San Diego, Calif., assignor to D. B. Red, Hattiesburg, Miss. Self-serving store. No. 1,397,379; Nov. 15.
Jones, James I., assignor of one-half to B. R. Browne, Washington, D. C. Concrete-mold. No. 1,397,253; Nov. 15.
Jones, Maurice F., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic train-stop system. No. 1,396,847; Nov. 15.
Judd, Hartley C. B., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Closet-seat fixture. No. 1,396,984; Nov. 15.
Jungling, Ernest R., New York, N. Y. Sheet-gages for addressing-machines. No. 1,397,126; Nov. 15.
Kaeser, John G., assignor to The Cincinnati Aluminum Casting Company, Norwood, Ohio. Vehicle-door handle. No. 1,397,426; Nov. 15.
Kahns, Walter R., assignor to J. H. White Manufacturing Company, Brooklyn, N. Y. Device for connecting bowls and shades in lighting-fixtures. No. 1,397,385; Nov. 15.
Karlson, Henry C., et al. (See Townsend, Frederick E., assignor.)
Karschlits, Frank, Bridgeport, Conn. Adjustable holder. No. 1,397,254; Nov. 15.
Kashur, William, Meriden, Conn. Milk-bottle receptacle. No. 1,397,427; Nov. 15.
Kearney Combo & Novelty Co. (See Schroeder, Ernest C., assignor.)
Keenum, James A., Lovington, N. Mex. Noose-forming device. No. 1,397,126; Nov. 15.
Keithley, Theodore W., Bigtimber, Mont. Saddle attachment. No. 1,397,128; Nov. 15.
Kelso, Daniel B., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Refining caustic acid. No. 1,397,127; Nov. 15.
Kemp, Karl O., Durham, assignor of one-half to R. P. Dorford, Pailler Yard, Sunderland, England. Variable-lift feed-valve for oil-engines. No. 1,396,965; Nov. 15.
Kelly, James. (See Madsen, D. E., and Kelly.)
Kelly, Walter J., St. Louis, Mo. Metallic seal. No. 1,397,101; Nov. 15.
Kepner, Elmer E., Springfield, Oreg. Can-opener. No. 1,397,217; Nov. 15.
Kerr, Harry C., Kansas City, Mo. Polishing composition and making same. No. 1,397,102; Nov. 15.
Kerr, Isaac A., Memphis, Tenn. Self-disintegrator. No. 1,397,428; Nov. 15.
Kerr, Marshall B. (See Manire, Moses E., assignor.)
Kershaw, Grindrod, Whitworth, England. Suction device or rope-cleaner for creels for use in warping or beaming. No. 1,397,380; Nov. 15.
Kim, Julius, et al. (See Isenhour, Luther J., assignor.)
King, John G., Morristown, N. J. Frying-pan. No. 1,396,848; Nov. 15.
Klayon, Alexis G., assignor to Powdered Coal Engineering & Equipment Company, Chicago, Ill. Apparatus for using powdered fuel. No. 1,396,761; Nov. 15.
Kirby, Phillip S., Denver, Colo. Embroidery-needle. No. 1,396,849; Nov. 15.
Kirchner, Henry W., St. Louis, Mo. Clamp for freight-carriers. No. 1,396,941; Nov. 15.
Klein, Gustaf E., Chicago, Ill. Window-sash counterbalance. No. 1,397,129; Nov. 15.

Klingstedt, Gottlieb L. B., Omaha, Nebr. Adjustable extension-handle. No. 1,396,850; Nov. 15.
Klingberg, Walter H. (See Bingham, C., and Klingberg.)
Knierem, August, Binghamton, N. Y., assignor to The Tabulating Machine Company. Card-punching device. No. 1,397,007; Nov. 15.
Knox, Lester L., Bellevue, Pa. Valve mechanism for reversing regenerative furnaces. No. 1,397,256; Nov. 15.
Koehler, Edward J. (See Dickerson, Walter H., assignor.)
Koppe, Alexander T., Los Angeles, Calif., assignor to Oliver Dissectoplate Company, Chicago, Ill. Vacuum-pressure frame. No. 1,396,962; Nov. 15.
Korvin-Krouhowsky, Boris, V. (See Drew, W. F., and Korvin-Krouhowsky.)
Kraber, Arnat J., Pittsburgh, Pa. Shock-absorber. No. 1,396,851; Nov. 15.
Kraber, George L., Portland, Oreg., assignor, by mesne assignments, to The Turbine Air Tool Company, Cleveland, Ohio. Rotor for cutter-heads. No. 1,396,762; Nov. 15.
Kraling, Fred B., Lisbon, N. D. Device for grinding automobile-valves. No. 1,396,763; Nov. 15.
Kraly, Joseph J., Cleveland, Ohio. Airless tube for vehicle-tires. No. 1,396,853; Nov. 15.
Krieg, John L. (See Handley, J. H., Jr., and Krieg.)
La Fayette Motors Company. (See White, D'Orsay M., assignor.)
Lackie, William F., Opportunity, Wash. Insect-exterminator. No. 1,397,218; Nov. 15.
Laing, Sallie W., Shreveport, La. Infant's garment. No. 1,397,381; Nov. 15.
Lally, Eugene F., et al. (See Rollins, Williams T., assignor.)
Lammers, Edwin S., Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical system. No. 1,396,853; Nov. 15.
Lancaster, John F., Philadelphia, Pa. Tile-anchoring device. No. 1,396,764; Nov. 15.
Landis, Frank F., Waynesboro, Pa. Shock-diffuser. No. 1,397,429; Nov. 15.
Langfeldt, Einar, Boston, Mass. Paint. No. 1,397,108; Nov. 15.
Lankheet, Sander, Hamilton, Mich. Brake. No. 1,397,430; Nov. 15.
Lapeden, John M., New York, N. Y. Power control for motor-vehicles. No. 1,397,130; Nov. 15.
Lauda, Joseph F., assignor of one-fifth to Scott Player Action Co., Racine, Wis., and four-fifths to The Northern Trust Company, trustee, Chicago, Ill. Player-piano-roll centralizer. No. 1,397,255; Nov. 15.
Law, James C., Scranton, assignor to Wilmot Engineering Company, Hazleton, Pa. Separable-link chain. No. 1,397,131; Nov. 15.
Lawler, James T. (See Smith, Hunter, Jr., assignor.)
Lawrence, Jay F., Chicago, Ill. Hydrocarbon-burner. No. 1,396,854; Nov. 15.
Lawrence, John D., assignor to Dura Mechanical Hardware Company, Toledo, Ohio. Counterbalance mechanism for vehicle-windows. No. 1,397,256; Nov. 15.
Lea, John M., assignor to General Motors Corporation, Detroit, Mich. Transmission-lock. No. 1,396,855; Nov. 15.
Ledbetter, Thomas F., Columbus, Ga. Drive mechanism. No. 1,397,219; Nov. 15.
Leighton, John M., assignor to Concrete Piling Ltd., Westminster, London, England. Keel-blocks for building ships. No. 1,397,437; Nov. 15.
Leonard, John P., Hawley, Pa. Footboard-holder for automobiles. No. 1,396,856; Nov. 15.
Levett, Alexander, New York, N. Y., assignor to E. D. Riegel, trustee, Fairfield, Conn. Buffing or polishing wheel. (Reissue.) No. 15,226; Nov. 15.
Levine, Abraham, Brooklyn, and L. Offerman, assignors to Presto Metal Stamping Corporation, New York, N. Y. Attaching means for separable fastener elements. No. 1,397,382; Nov. 15.
Levinstein Limited. (See Bader, Walter, assignor.)
Lewis, Abraham. (See Zearnay, Edis, assignor.)
Libbey-Owens Sheet Glass Company, The. (See Owens, Michael J., assignee.)
Liberty Auto Lock Co. (See Saegesser, Albert W., assignor.)
Limont, Alexander W., assignor to Bridgeport Brass Company, Bridgeport, Conn. Cap for electric-light sockets. No. 1,396,857; Nov. 15.
Linderman, Charles V. (See Weinberg, A., and Linderman.)
Litchfield, Lee J., Elsie, Mich. Spring-link. No. 1,397,431; Nov. 15.
Little, William F., Yonkers, and C. H. Sharp, White Plains, N. Y. Photometer. No. 1,396,963; Nov. 15.
Locke, Albert E., Chicago, Ill. Lighting-fixture. No. 1,396,936; Nov. 15.
Logwood, Charles V., New York, N. Y. Signaling system. No. 1,397,432; Nov. 15.
Lombard, Walter E., Arlington, Mass. Lifting-jack. No. 1,396,858; Nov. 15.
Long, Abram F., Buffalo, N. Y. Conveying-valve. No. 1,396,939; Nov. 15.
Long, Alexander H., Mobile, Ala. Photographic camera. No. 1,397,132; Nov. 15.
Lopitsky, John, Livingston, W. Va. Track-layer. No. 1,396,765; Nov. 15.
Lord, Lawrence S., Cleveland, Ohio. Faucet. No. 1,397,220; Nov. 15.
Lorimer, George W., Troy, assignor, by mesne assignments, to The Thomas Manufacturing Company, Dayton, Ohio. Automatic stop for phonographs. No. 1,396,994; Nov. 15.
Lorraine, David G., Los Angeles, Calif. Method and apparatus for separating oil and gas. No. 1,396,860; Nov. 15.
Love, Clyde D., Coshocton, Ohio. Sun-dial. No. 1,396,967; Nov. 15.
Lucand, Alexander. (See Horresheff, A. G., and Lucand.)
Lucand, Alexander, assignor to International Motor Company, New York, N. Y. Four-wheel-brake equalizer. No. 1,396,965; Nov. 15.
Lucks, William J., Columbus, Ohio. Valve-grinder. No. 1,396,861; Nov. 15.
Lukesh, Gustave R., U. S. Army. Railway-artillery. No. 1,397,485; Nov. 15.
Lundin, Andreas P. (See Twombly, A. H., Lundin, and Marr.)
Lutz, Belton L., assignor to International Money Machine Company, Reading, Pa. Type-carrier. No. 1,396,935; Nov. 15.
Lyon, Edmund, and A. F. Williams, assignors to North East Electric Company, Rochester, N. Y. Motor-mounting. No. 1,396,966; Nov. 15.
Lyons, William A., Litchfield, Minn. Time-indicating device. No. 1,397,319; Nov. 15.
McClelland, Bertha M., Walton, N. Y. Doll. No. 1,396,764; Nov. 15.
McCormick, John H., Creston, Iowa. Motor-support. No. 1,397,433; Nov. 15.
McDaniel, Charles L., Kansas City, Mo. Drip-cup attachment for brushes. No. 1,396,967; Nov. 15.
McGall, Albert, New York, N. Y. Preparing finely-divided metals. No. 1,397,006; Nov. 15.
McGee, Frank B., and G. W. Vreeland, Steubenville, Ohio. Dry-gas cleaner. No. 1,396,767; Nov. 15.
McKay, Augusta P., assignor to McKay Disk Plow Co., Rome, Ga. Disk plow and subsoiler. No. 1,397,434; Nov. 15.
McKay Disk Plow Co. (See McKay, Augusta P., assignor.)
McKay, John J. (See Mines, C. G., and McKay.)
McKelvey, John H., Kirkwood, and C. F. Lynn, St. Louis, Mo. Making plate-glass. No. 1,397,267; Nov. 15.
McManus, Edward L., Jr. (See Berger, Fred, assignor.)
McNabb, Ernest W., assignor to United Harrow Mfg. Co., Inc., Watertown, Tenn. Harrow. No. 1,397,104; Nov. 15.
Macbeth, Allan, assignor to S14 The Dunlop Rubber Co. Limited, Paris, France. Petrol-tank and the like. No. 1,397,383; Nov. 15.
Macbeth, Colin, and F. Fellowes, Birmingham, assignors to The Dunlop Rubber Company, Limited, Westminster, London, England. Machine for making pneumatic-tire covers or casings. No. 1,397,133; Nov. 15.
Macdonough, Raymond E., Minneapolis, Minn. Filler-cup and closure for pressure-tanks. No. 1,397,438; Nov. 15.
MacMillan, John R., Niagara Falls, N. Y., assignor to Niagara Alkali Company. Making trichlorethylene. No. 1,397,134; Nov. 15.
Madison, George E., Flint, assignor to General Motors Corporation, Detroit, Mich. Folding top for automobiles. No. 1,396,862; Nov. 15.
Madison Kipp Corporation. (See Coles, Wilfred G., assignor.)
Madsen, David E., and J. Kelly, Detroit, Mich. Scaffold-support. No. 1,396,968; Nov. 15.
Mahoney, E. H., Chair Company, et al. (See Travers, Lewis C., assignor.)
Maineri, Daniel L., assignor, by mesne assignments, to United Alloy Steel Corporation, Canton, Ohio. Metal-sheet-pack-opening device. No. 1,396,768; Nov. 15.
Maleuf, Jubert G., Niagara Falls, N. Y. Assessment device. No. 1,397,135; Nov. 15.
Management, Engineering and Development Company. (See Baker, Harold T., assignor.)
Mandalian, Sahatiel G., North Attleboro, Mass. Suspension-sleeve for mesh-machines. No. 1,397,283; Nov. 15.
Manire, Moses E., assignor of one-half to M. B. Kerr, Chapel Hill, Tenn. Neckband for shirts. No. 1,397,439; Nov. 15.
Marcotte, O. F. (See Hugues, Louis J., assignor.)
Margolin, George, New York, assignor to A. E. Mosler & Company, Mount Vernon, N. Y. Spark-plug. No. 1,397,321; Nov. 15.
Markovich, Mike, Bosevac, Jugo-Slavia, assignor of one-half to D. Stupich, South Wellington, British Columbia, Canada. Snow-gathering device. No. 1,397,436; Nov. 15.
Marr, Robert A. (See Twombly, A. H., Lundin, and Marr.)
Martel, Joseph, Montreal, Quebec, Canada. Means for compressing springs to remove same from trucks. No. 1,397,437; Nov. 15.
Martin, George A., Chicago, Ill. Window frame and sash structure. No. 1,397,221; Nov. 15.
Martino, Peter, Providence, R. I. Firearm. No. 1,396,969; Nov. 15.
Martin, William H., Detroit, Mich. House mail-receptacle. No. 1,397,438; Nov. 15.
Mather, George E., Morsemere, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Folding-door structure. No. 1,396,769; Nov. 15.

Mathers, Frank C., Bloomington, Ind., assignor to American Smelting & Refining Co. Electrolytic refining of tin. No. 1,397,222; Nov. 15.

Mathewson, Ernest T., Buffalo, N. Y. Bumper. No. 1,397,223; Nov. 15.

Mathewson, Ernest T., Buffalo, N. Y. Bumper. No. 1,397,224; Nov. 15.

Mathisen, Hjalmar. (See Bastian, C. L., and Mathisen.)

Maxwell, James G., Cleveland, Ohio. Means for regulating the temperature of rolls. (Reissue.) No. 15,227; Nov. 15.

Mayer, Arthur, Richmond Hill, N. Y., assignor to Edward P. Hartford, Inc., Brachet. No. 1,397,106; Nov. 15.

Mayhew, Joseph L., Williamstown, Mass., assignor to Mayhew Steel Products Inc., New York, N. Y. Pliers. No. 1,396,863; Nov. 15.

Mayhew Steel Products Inc. (See Mayhew, Joseph L., assignor.)

Maynard, Albert E., assignor to American Optical Company, Southbridge, Mass. Grinding-machine. No. 1,397,289; Nov. 15.

Mayne, Samuel H. C., Winder, Ga. Detachable drawer sets and rollers. No. 1,396,864; Nov. 15.

Maynes, Emma G. (See Maynes, Hyla F., assignor.)

Maynes, Hyla F., assignor of one-half to E. G. Maynes, Gaines, Pa. Amusement apparatus. No. 1,397,009; Nov. 15.

Mead, Howard G., St. Louis, Mo., assignor, by mesne assignments, to Wirebounds Patents Company, Kittery, Me. Feed mechanism for wire-bound-box-blank machines. No. 1,397,439; Nov. 15.

Meader, John L. (See Brainard, William S., assignor.)

Mees, Charles E. K., assignor to Eastman Kodak Company, Rochester, N. Y. Method and apparatus for making photographic records. No. 1,396,770; Nov. 15.

Mees, Eberhard F., assignor of one-half to H. C. Schoene, Milwaukee, Wis. Paint. No. 1,396,970; Nov. 15.

Melnick, Karp, Plantsville, Conn. Animal-trap. No. 1,397,440; Nov. 15.

Melton, Roy R., Camden, Tenn. Automobile number-plate. No. 1,397,136; Nov. 15.

Merritt, Robert W., New York, N. Y. Garter. No. 1,397,106; Nov. 15.

Mertzanoff, André M., Buffalo, N. Y. Boiler. No. 1,397,010; Nov. 15.

Meuschke, William L., Lincoln, Mo. Carriage-return mechanism for typewriters. No. 1,396,865; Nov. 15.

Meyer, Harry E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,396,966; Nov. 15.

Meyer, Katharine, assignor to O. Meyer, Carlstadt, N. J. Expanding frame for embroidery-machines. No. 1,397,322; Nov. 15.

Meyer, Oswald. (See Meyer, Katharine, assignor.)

Meyercord, George B., Chicago, Ill., assignor to Haskelite Manufacturing Corporation. Making long ply-wood panels. No. 1,396,971; Nov. 15.

Meyercord, George B., Chicago, Ill., assignor to Haskelite Manufacturing Corporation. Method of and apparatus for gluing sheets edge to edge. No. 1,397,489; Nov. 15.

Michaud, Joseph O., Fort Kent, Me. Internal expanding brake. No. 1,397,225; Nov. 15.

Michaud, Onesime E., St. Louis, Mo. Roller-bearing. No. 1,397,226; Nov. 15.

Miclaush, Alexander, Mattoon, Ill. Portable telephone apparatus. No. 1,397,137; Nov. 15.

Miess, Charles G., and J. J. McKay, Salamanca, N. Y. Concrete-form. No. 1,397,138; Nov. 15.

Miller, Andrew B., assignor of one-third to E. Christenson, Baldwin, Wis. Fruit-jar-cover remover. No. 1,396,867; Nov. 15.

Miller, Carl D., Rockville, Mass. Electrical measuring instrument. No. 1,397,441; Nov. 15.

Miller, Frank W., assignor of one-half to C. D. Bauers, Chicago, Ill. Separator. No. 1,396,939; Nov. 15.

Miller, Jesse E., Knoxville, Tenn. Sewing-machine. No. 1,397,052; Nov. 15.

Miller Train Control Corporation, The. (See Murray, William B., assignor.)

Millet, Charles W., Evansville, Ind. Caster-wheel and making same. No. 1,397,171; Nov. 15.

Mills, Claud E., Des Moines, Iowa. Transmission-gearing. No. 1,397,442; Nov. 15.

Milwaukee Press & Machine Co. (See Zetterlund, Theodor, assignor.)

Milwaukee Press & Machine Company. (See Ziska, Adam, Jr., assignor.)

Miner, William H. (See Geiger, William A., assignor.)

Miner, William H. (See Johnson, George A., assignor.)

Miner, William H. (See O'Connor, John F., assignor.)

Minor, Edward L., Birmingham, Ala. Brick-cleaning machine. No. 1,397,227; Nov. 15.

Minton, John P., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Receiver-shield. No. 1,396,771; Nov. 15.

Miot, Hubert F. H. G., Vanves, assignor to P. B. Bernard and A. L. Moutier, Paris, France. Mechanism for reversing the direction of motion of machinery. No. 1,397,172; Nov. 15.

Mitchell, Floyd A., Portland, Oreg. Truck attachment for tractors. No. 1,397,053; Nov. 15.

Mitchell, Robert G., Mount Vernon, N. Y. Glass-holder. No. 1,397,323; Nov. 15.

Mitchell, Rowland B., assignor to Athol Manufacturing Company, Athol, Mass. Pyroxylin solvent. No. 1,397,175; Nov. 15.

Mitchell, Rowland B., assignor to Athol Manufacturing Company, Athol, Mass. Pyroxylin solvent. No. 1,397,486; Nov. 15.

Miyagi, Takeo, Waipahu, Hawaii. Railway-brake. No. 1,397,443; Nov. 15.

Mohr, Arthur D., El Paso, Tex. Coin-wrapping device. No. 1,397,444; Nov. 15.

Moloney, Thomas O., et al. (See Carter, Lionel A., assignor.)

Monroe, Andrew J. (See Monroe, Nathaniel S. and A. J.)

Monroe, Nathaniel S. and A. J., Arthur, Ill. Road-working machine. No. 1,397,011; Nov. 15.

Moore, William E., Chicago, Ill., assignor, by mesne assignments, to International Earth-Boring Machine Corporation. Earth-boring machine. No. 1,397,324; Nov. 15.

Morgan, Porter S., Norwalk, Conn., assignor to Rotary Brake Company, Inc., New York, N. Y. Power-brake. No. 1,397,012; Nov. 15.

Moritz, Daniel A. and W. J. Peterson, McKeesport, Pa. Vending-machine. No. 1,396,772; Nov. 15.

Morrill, Alfred E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,397,013; Nov. 15.

Morwood, Holton E., Welland, Ontario, Canada. Vehicle. No. 1,397,174; Nov. 15.

Moses, William B., Watertown, assignor to Gray & Davis, Inc., Cambridge, Mass. Ignition apparatus. No. 1,396,868; Nov. 15.

Mosler, A. B., & Company. (See Margolin, George, assignor.)

Moutier, Anatole L., et al. (See Miot, Hubert F. H. G., assignor.)

Mowry, Edward S., Middletown, Conn. Metal-coating metallic articles. No. 1,397,176; Nov. 15.

Muehk, Arthur, Oakland, Calif. Motor-vehicle axle. No. 1,396,869; Nov. 15.

Mullen, James J., et al. (See Carter, Lionel A., assignor.)

Müller, Philipp, Leipzig, Germany. Device for atomising and drying or evaporating milk and other liquid substances. No. 1,397,445; Nov. 15.

Mumford, Russell W., New York, N. Y., assignor, by mesne assignments, to Darco Corporation, Wilmington, Del. Making a purifying agent. No. 1,396,773; Nov. 15.

Murray, Thomas E., Brooklyn, N. Y. Steam or hot-water radiator. No. 1,397,325; Nov. 15.

Murray, William B., Danville, Ill., assignor to The Miller Train Control Corporation, Staunton, Va. Railway control system. No. 1,396,870; Nov. 15.

Muscott, Ray H., Swan Creek, Mich. Tread-belt attachment for trucks. No. 1,397,139; Nov. 15.

Muth, John, assignor to The E. H. Hotchkiss Company, Norwalk, Conn. Staple-driving machine. No. 1,397,176; Nov. 15.

Muth, John, assignor to The E. H. Hotchkiss Company, Norwalk, Conn. Staple-remover. No. 1,397,177; Nov. 15.

Myers, Jacob S., assignor to W. M. Baechtel and J. K. Hoffman, Hagerstown, Md. Wagon-hayrack carriage. No. 1,397,446; Nov. 15.

Nagayama, Tsunetaro, Hilo, Hawaii. Rat-trap. No. 1,397,294; Nov. 15.

Nagel, Harry C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Expanded-metal resistor and making the same. No. 1,396,871; Nov. 15.

Nakamura, Kakichi. (See Butcher, James M., assignor.)

National Mayonnaise Machine Company. (See Drucker, William J., assignor.)

National Motor Car & Vehicle Corporation. (See Wall, William G., assignor.)

Navy Gear Manufacturing Corporation, The. (See Petrelli, Joseph V., assignor.)

Needham, Joseph, New York, N. Y. Soldering-iron heater. No. 1,397,178; Nov. 15.

Nein, William C. (See Varley, T. W., and Nein.)

Neiswender, Charles A., and W. C. Wenthe, Topeka, Kans. Convertible porch-swing and couch. No. 1,396,774; Nov. 15.

Nelson, August, Chicago, Ill. Transfer-clamp. No. 1,397,290; Nov. 15.

Nelson, Elmer F., Chicago, Ill., assignor to A. A. Weiss, St. Louis, Mo. Vulcanising-mold. No. 1,397,447; Nov. 15.

Nelson, Frederick D., Detroit, Mich. Vacuum fuel-feeding system. No. 1,396,940; Nov. 15.

Niagara Alkali Company. (See MacMillan, John E., assignor.)

Nichols, Henry, Newark, N. J. Resilient wheel. No. 1,397,140; Nov. 15.

Niles-Bement-Pond Company. (See Blood, Harold L., assignor.)

Niles-Bement-Pond Company. (See Coles, Henry L., assignor.)

Niles-Bement-Pond Company. (See Teas, D. H., and Wood, assignors.)

Nimmer, William A. (See Pilgrim, J. F., and Nimmer.)

Norris, William F., Kansas City, Mo. Spring-wheel. No. 1,397,448; Nov. 15.

Norsk Hydro-Elektrisk Kvaelstofaktieselskab. (See Aanerud, S. A., and Halvorsen, assignors.)

North East Electric Company. (See Lyon, E., and Williams, assignors.)

Northern Trust Company, trustee, The, et al. (See Lauda, Joseph F., assignor.)

Nouree, Frank C., Boise, Idaho. Device for separating seeds. No. 1,397,141; Nov. 15.

Nylund, Erik L., Detroit, Mich. Ball-joint. No. 1,397,107; Nov. 15.

Nyquist, Harry, Tabor, N. J., assignor to American Telephone and Telegraph Company. Electrical measuring apparatus. No. 1,397,226; Nov. 15.

Oakley, George E., assignor to Consolidated Car-Heating Company, Albany, N. Y. Train-line system for car-doors. No. 1,396,775; Nov. 15.

Oasis Manufacturing Co. (See York, Edgar L., assignor.)

Oberly, John L., Brooklyn, N. Y. Printing-press. No. 1,396,873; Nov. 15.

O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chasy, N. Y. Friction shock-absorbing mechanism. No. 1,397,229; Nov. 15.

O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chasy, N. Y. Hand-brake. No. 1,397,230; Nov. 15.

Onepiece Bifocal Lens Company. (See Bugbee, Lucian W., assignor.)

Offerman, Louis. (See Levine, A., and Offerman.)

Offset Directoplate Company. (See Koppe, Alexander T., assignor.)

Oliver, Joseph W., Grand Rapids, Mich. Rotatable tool-carrier for planing-machines, &c. No. 1,397,014; Nov. 15.

Ortgies, George, East St. Louis, Ill. Aeroplane. No. 1,397,292; Nov. 15.

Owens, Michael J., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-glass-forming apparatus. No. 1,397,326; Nov. 15.

Oslek, Herman, Philadelphia, Pa. Swing. No. 1,396,776; Nov. 15.

Palmer, Miguel J., et al. (See Sanches, Leonardo, assignor.)

Palmgren, Nils A., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Roller-bearing. No. 1,397,142; Nov. 15.

Paolicelli, Eustace, New York, N. Y. Pump. No. 1,397,179; Nov. 15.

Packard Motor Car Company. (See Jolls, Le Roy E., assignor.)

Parent, Wilfred A., Salem, Mass. Adjustable support. No. 1,396,777; Nov. 15.

Parham Auto Patents Corporation. (See Parham, William H., assignor.)

Parham, William H., assignor to Parham Auto Patents Corporation, Knoxville, Tenn. Vehicle-tire fastener. No. 1,396,778; Nov. 15.

Parker, Howard, assignor to Brown Company, Berlin, N. H. Core for rolls of paper. No. 1,397,143; Nov. 15.

Parnbin, Alexander, London, England. Electrically operating mechanism from a distance. No. 1,397,449; Nov. 15.

Parsons, George H., New York, N. Y. Doll. No. 1,396,873; Nov. 15.

Pastrengo, Vittorio, San Francisco, Calif. Aerial apparatus. No. 1,396,874; Nov. 15.

Patented Metalware Corporation. (See Rachlin, Max, assignor.)

Patterson, Arthur L., Washington, D. C. Focusing attachment. No. 1,397,231; Nov. 15.

Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Gun-sight. No. 1,397,108; Nov. 15.

Pearson, George A. (See Wiggins, Edward J., assignor.)

Pedersen, John D., Jackson, Wyo. Firearm. No. 1,397,109; Nov. 15.

Peerless Light Company. (See Herskovitz, Max, assignor.)

Pennsylvania Wire Glass Company. (See Shuman, Arno, assignor.)

Penny, Lonnie T., Raleigh, N. C. Sash-fastener. No. 1,397,450; Nov. 15.

Peradotto, Antonio, Turin, Italy. Inclinometer. No. 1,397,490; Nov. 15.

Peters, John J., assignor of one-half to N. B. Akitt, Oelwein, Iowa. Lateral take-up for driving-boxes. No. 1,397,110; Nov. 15.

Peterson, William J. (See Moritz, D. A., and Peterson.)

Petrelli, Joseph V., assignor to The Navy Gear Manufacturing Corporation, New Haven, Conn. Reversing mechanism. No. 1,397,111; Nov. 15.

Petroleum Heat and Power Company. (See Fesler, Milton A., assignor.)

Pfeiffer, Adolph, Chicago, Ill. Clasp. No. 1,396,941; Nov. 15.

Pfeiffer, John F., Seattle, Wash. Continuous freeser. No. 1,396,972; Nov. 15.

Phelps, Leonard M., Philadelphia, Pa. Window-operating mechanism. No. 1,397,112; Nov. 15.

Pierce, Howard C., Harrodsburg, Ky. Refrigerator. No. 1,396,875; Nov. 15.

Pilger, William, Center, Colo. Grading-machine. No. 1,397,180; Nov. 15.

Pilgrim, John F., and W. A. Nimmer, Two Rivers, Wis. Map-case. No. 1,397,327; Nov. 15.

Platt, Clarence D., Bridgeport, Conn. Electric-cut-out box. No. 1,396,876; Nov. 15.

Plauson, Hermann, Hamburg, Germany, assignor to D. R. Rotman, New York, N. Y. Manufacture of artificial wood or other plastic bodies. No. 1,397,144; Nov. 15.

Ploen, Julius, Green Island, Iowa. Harrow-trailing seeder. No. 1,396,877; Nov. 15.

Plummer, Henry G., Oakland, Calif. Pipe-joint. No. 1,397,145; Nov. 15.

Plummer, Horace, Lawrence township, Marion county, Ind. Engraving-block. No. 1,397,293; Nov. 15.

Poore, Philip, London, England. Distillation of wood, woody fiber, and similar carbonaceous substances. No. 1,397,181; Nov. 15.

Pope, William L., Huntersville, N. C. Tractor. No. 1,397,015; Nov. 15.

Poppenhusen, Herman A., Hammond, Ind., and R. T. B. Hastings, Highland Park, assignors to Sanitax Brush Company, Chicago, Ill. Brush. No. 1,396,978; Nov. 15.

Post, Alvah L. and H. R., Kent, Ohio. Concrete-block-molding machine. No. 1,396,779; Nov. 15.

Post, Harry R. (See Post, Alvah L. and H. R.)

Post, Paul W., Algoma, Wis. Strapping device for dress-suit cases and the like. No. 1,397,016; Nov. 15.

Powdered Coal Engineering & Equipment Company. (See Kinyon, Alonzo G., assignor.)

Pratt, William E. (See Van Fleet, Elon J., assignor.)

Presto Metal Stamping Corporation. (See Levine, A., and Offerman, assignors.)

Price, Abner R., Toronto, Ontario, Canada. Attachment for spark-plugs. No. 1,397,017; Nov. 15.

Prickett, Clinton E., Fairmont, W. Va. Match-box holder. No. 1,397,232; Nov. 15.

Priestman, Edmund, Sheffield, England. Pocket-knife and tool-pad. No. 1,397,018; Nov. 15.

Prutzman, Paul W., Los Angeles, Calif., assignor to General Petroleum Corporation. Material for decolorising oil and producing the same. No. 1,397,113; Nov. 15.

Pugh, Harry W., assignor to Western Electric Company, Incorporated, New York, N. Y. Folding-door structure. No. 1,396,780; Nov. 15.

Putnam, Mark E., assignor to The Dow Chemical Company, Midland, Mich. Making cellulose esters. No. 1,396,878; Nov. 15.

Pyle-National Company, The. (See Dake, Charles W., assignor.)

Quick, Robert T., Pamplico, S. C. Portable veneer-rack. No. 1,397,328; Nov. 15.

Quinlan, Philip P., et al. (See Heaton, John T., assignor.)

Rachlin, Max, New York, assignor to Patented Metalware Corporation, Brooklyn, N. Y. Gutter-hanger. No. 1,397,328; Nov. 15.

Ralston Steel Car Company, The. (See Cowgill, Frank M., assignor.)

Randles, George E., Cleveland Heights, assignor to The Foote-Burt Company, Cleveland, Ohio. Multiple-spindle machine-tool. No. 1,396,781; Nov. 15.

Rathbun Manufacturing Company. (See Rathbun, Milo D., assignor.)

Rathbun, Milo D., Muncie, Ind., assignor to Rathbun Manufacturing Company, Muskegon, Mich. Fender device. No. 1,397,451; Nov. 15.

Ray, Albert D., Cleveland, Ohio, assignor to W. O. Jackson, New Castle, Ky. Thermostat for radiators. No. 1,396,782; Nov. 15.

Red, David B. (See Jones, Frank E., assignor.)

Reed, Andrew J., Wilkes-Barre, Pa. Apparatus for purifying water. No. 1,397,452; Nov. 15.

Reeder, Ernest B., Madison, Ind. Automatic raising and lowering step. No. 1,397,294; Nov. 15.

Reist, George K., Harrisburg, Pa. Floating storage-port. No. 1,397,385; Nov. 15.

Rekar, John J., Los Angeles, Calif. Lamp. No. 1,397,453; Nov. 15.

Remington Accounting Machine Corporation. (See Wahl, John C., assignor.)

Remington Typewriter Company. (See Holden, Joseph B., assignor.)

Reynolds, Edwin H., Brooklyn, N. Y., and E. E. Bleasard, Fall River, Mass. Attachment for typewriters. No. 1,397,454; Nov. 15.

Rhodes, M. M., & Sons Company. (See Tobey, Charles W., assignor.)

Richardson, Brodie J., and C. S. Barber, Waterbury, Conn. Bag-lock. No. 1,397,455; Nov. 15.

Riegel, Benjamin D., trustee. (See Levett, Alexander, assignor.) (Reissue.)

Riggs, Arthur N., Centralia, Wash. Box-nailing machine. No. 1,397,054; Nov. 15.

Ringham, Christopher, and W. H. Klingberg, Albert Lea, Minn. Tail-light and license-tag holder. No. 1,397,330; Nov. 15.

Rinne, Kalle, Norwood, Mass. Saw-set. No. 1,397,331; Nov. 15.

Ritz, George A., Rochester, N. Y. Office furniture. No. 1,397,295; Nov. 15.

Risek, John, Cudahy, Wis. Watch-movement. No. 1,396,879; Nov. 15.

Robbins, James G., Lancaster, assignor to American Pretzel Company, Philadelphia, Pa. Pretzel-making machine. No. 1,397,233; Nov. 15.

Roberton, Charles G., Barrow-in-Furness, England. Thrust-bearing. No. 1,396,880; Nov. 15.

Roberts, Walton C., Summit, Ga. Musical instrument. No. 1,397,019; Nov. 15.

Robinson, Charles H., Venice, Ill. Window-shade bracket. No. 1,397,456; Nov. 15.

Rockwood Sprinkler Company of Massachusetts. (See Carlson, Hjalmar G., assignor.)

Roessler, Emil G., Goldfield, Nev. Stove-grate. No. 1,397,386; Nov. 15.

Röhm, Otto, Darmstadt, Germany. Manufacture of imitation leather. No. 1,397,537; Nov. 15.

Rohn, Hyacinth, Chicago, Ill. Dough-cutting apparatus for making long loaves and like products. No. 1,396,921; Nov. 15.

Rolling, William H., assignor, of one-fourth, to W. H. Davis and one-half to E. F. Lally, Boston, Mass. Anti-skid attachment for elastic tires. No. 1,397,185; Nov. 15.

Rosenblatt, William, and J. J. Simon, Brooklyn, N. Y. Windshield for vehicles. No. 1,397,324; Nov. 15.

Rotary Brake Company. (See Morgan, Foster L., assignor.)

Rothman, D. E. (See Hartmann, Hermann, assignor.)

Rudzinski, Tony, Virginia, Minn. Spark-arrester. No. 1,396,862; Nov. 15.

Rüdy, Hermann, Jestetten, Germany. Motor-plow. No. 1,397,146; Nov. 15.

Rudolf, Otto E., assignor to French Battery & Carbon Co., Madison, Wis. Dry battery and manufacture. No. 1,397,152; Nov. 15.

Russell, Thomas C., Chicago, Ill. Hair-marcelling apparatus. No. 1,397,332; Nov. 15.

Ruthenis, Edward R., St. Louis, Mo. Shoe and making the same. No. 1,396,782; Nov. 15.

Ryalls, John H., Charlottesville, Va. Reversible transmission for spinning-mules. No. 1,396,628; Nov. 15.

Ryan, Charles F. (See McKelvey, J. H., and Ryan.)

Rykken, Harold P., Fort Orchard, Wash. Jar-holder. No. 1,397,457; Nov. 15.

Sabol, Sidney Ralph, Chicago, Ill. Dustcap for automobiles. No. 1,397,235; Nov. 15.

Sace-Lowell Shops. (See Carley, Robert S., assignor.)

Sacquenne, Albert W., Granite City, Ill., assignor to Liberty Auto Lock Co., St. Louis, Mo. Lock for hub-caps. No. 1,396,924; Nov. 15.

Sager, Erford, Hamilton, Ontario, Canada. Automatic train-stop. No. 1,397,055; Nov. 15.

Samuels, John D., and H. E. Bates, Idaho Falls, Idaho. Seed-beet planter. No. 1,396,784; Nov. 15.

Sanchez, Leonardo, assignor of one-half to A. Angulo, and twenty per cent. to M. J. Palmer, Habana, Cuba. Device for raising sunken vessels. No. 1,396,895; Nov. 15.

Sandquist, John V., Houston, Tex. Link. No. 1,397,456; Nov. 15.

Sanitary Products Corporation of America. (See Jacoby, Leo D., assignor.)

Sanitas Brush Company. (See Peppenhusen, H. A., and Hastings, assignors.)

Sauerwald, Irvin, York, assignor to United States Chain & Forging Co., Pittsburgh, Pa. Tire-grip-chain fastener. No. 1,397,056; Nov. 15.

Sawyer, Frank M., Los Angeles, Calif. Floor construction. No. 1,397,147; Nov. 15.

Schaefer, Fred S., South St. Paul, Minn. Hoisting apparatus. No. 1,397,067; Nov. 15.

Scharf, Joseph C., Jr., and W. J. Holliday, Indianapolis, Ind. Test-stand for testing generators. No. 1,397,290; Nov. 15.

Schaub, Jacob, Newark, N. J., assignor to The Thomas Company, New York, N. Y. Filling-machine. No. 1,397,134; Nov. 15.

Schaumleffel, Harry J., Marion, Ind. Vibrator. No. 1,397,058; Nov. 15.

Schenk, Edouard, Geneva, Switzerland. Safety-pin. No. 1,397,286; Nov. 15.

Schenk, Edouard, Geneva, Switzerland. Manually-operated safety coupling device. No. 1,397,287; Nov. 15.

Schinke, Edward C., and N. A. Sutherland, assignors to Typewriter Calculating Attachment Company, St. Louis, Mo. Calculating-machine. No. 1,396,880; Nov. 15.

Schmela, Carl, Newell, S. D. Gate-fastener. No. 1,397,409; Nov. 15.

Schmitt, Daniel W., Reno county, near Kingman, Kans. Cultivator. No. 1,397,333; Nov. 15.

Schmoeltzli, Adolph O., St. Louis, Mo. Piston-ring. No. 1,397,334; Nov. 15.

Schneider, Jacques, Solothurn, E. Hürlimann, Sachwil, and F. Billon, assignors to the Firm Scintilla, Solothurn, Switzerland. Cable-outlet of magneto-electric ignition-machines for internal-combustion engines. No. 1,397,169; Nov. 15.

Schoene, Emil C. (See Mees, Eberhard F., assignor.)

Schofield, George L., Kansas City, Mo. Cooling means for motor-vehicle engines. No. 1,396,795; Nov. 15.

Schroeder, Ernest C., New York, N. Y., assignor to Kearney Comb & Novelty Co., Kearney, N. J. Clasp-fastener for handbags and the like. No. 1,396,942; Nov. 15.

Schroetter, Arnold, New York, N. Y. Clasp. No. 1,396,897; Nov. 15.

Scintilla. (See Schneider, J., Hürlimann, and Billon, assignors.)

Scott, Charles F., New Haven, Conn., assignor to Westinghouse Electric and Manufacturing Company. Railway signaling system. No. 1,396,823; Nov. 15.

Scott, George L., Shawnee, Okla. Car-brake. No. 1,397,059; Nov. 15.

Scott Player Action Co. et. al. (See Landa, Joseph F., assignor.)

Scott, William, St. Louis, Mo. Combined auto jack and safety device. No. 1,397,135; Nov. 15.

Scribner, William L., assignor of one-half to R. T. Dawson, Toledo, Ohio. Roller-bearing. No. 1,397,227; Nov. 15.

Seaton, Edward O., assignor to Western Electric Company, Incorporated, New York, N. Y. System for transmission of intelligence. No. 1,397,112; Nov. 15.

Seaman, Robert C., Bloomsburg, Pa. Water-cock for the dampers of steam-boilers. No. 1,397,403; Nov. 15.

Security Auto Lock Co. (See Hebern, W., and Gray, assignor.)

Seely, John A., Schenectady, N. Y., assignor to General Electric Company. Efficiency indicating apparatus. No. 1,397,203; Nov. 15.

Semmelhack, August L., Whittier, Calif. Multiple-bit counterbore. No. 1,397,114; Nov. 15.

Sepenhelm, Hans, Gothenburg, Sweden. Apparatus for submerging and supplying greasy substances contained in water. No. 1,396,859; Nov. 15.

Sharp, Clayton H. (See Little, W. F., and Sharp.)

Shearer, George T., Waynesboro, Pa. Die-head. No. 1,397,228; Nov. 15.

Sheehan, John E. W. (See Hotchkiss, W. S., and Sheehan.)

Shepard, Charles C., Byer, Ohio. Flagman's outfit. No. 1,396,787; Nov. 15.

Shephardson, Abner E., Melrose, Mass. Archer's bow. No. 1,396,783; Nov. 15.

Short, Charles R., assignor to General Motors Company, Detroit, Mich. Hydrocarbon-motor. No. 1,396,890; Nov. 15.

Short, Charles R., assignor to General Motors Company, Detroit, Mich. Hydrocarbon-motor. No. 1,396,891; Nov. 15.

Short Electrical Mfg. Corp. (See Short, Henry M., assignor.)

Short, Henry M., assignor to Short Electrical Mfg. Corp., Penn Yan, N. Y. Electric conduit and making same. No. 1,396,789; Nov. 15.

Sherman, Arza, assignor to Pennsylvania Wire Glass Company, Philadelphia, Pa. Machine for and method of making corrugated wire-glass. No. 1,397,149; Nov. 15.

Shimada, Thomas J., Washington, D. C. Embryotomy device. No. 1,397,461; Nov. 15.

Shute, Frederick W., Amesbury, Mass. Paper-fastener. No. 1,396,790; Nov. 15.

Sickaff, Otto E., Livingston, Mont. Show-card holder. No. 1,396,892; Nov. 15.

Simmons Company. (See Busch, Charles H., assignor.)

Simmons, Peter S., and W. J. Frick, Paterson, N. J. Building umbrella. No. 1,396,886; Nov. 15.

Simon, Jacob J. (See Rosenblatt, W., and Simon.)

Singer Manufacturing Company, The. (See Becker, Rudolph, assignor.)

Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)

Singer Manufacturing Company, The. (See Gatchell, George A., assignor.)

Sisck, Ellsworth, Miamisburg, Ohio. Tobacco-packer. No. 1,397,060; Nov. 15.

Sister, Henry B., Riverside, Calif. Electrolytic production of hypochlorite solutions. No. 1,397,229; Nov. 15.

Sizemore, Edward R. (See Hammer, Cecil A., assignor.)

Smallwood, Alfred, Highgate, London, England. Furnace. No. 1,396,943; Nov. 15.

Smith, A. O., Corporation. (See Smith, Reuben S., assignor.)

Smith, Edwin L., assignor to O. Branch, Philadelphia, Pa. Loom-winding machine. No. 1,397,220; Nov. 15.

Smith, Harry J., Lakewood, Ohio. Self-oiling bearing. No. 1,397,115; Nov. 15.

Smith, Herbert M., assignor to Stanley Insulating Company, Great Barrington, Mass. Apparatus for filling receptacles or the like. No. 1,397,061; Nov. 15.

Smith, Hunter, Jr., assignor of one-half to J. T. Lanier, Seattle, Wash. Trench. No. 1,397,462; Nov. 15.

Smith, John W., Philadelphia, Pa. Flying-machine. No. 1,396,874; Nov. 15.

Smith, Joseph A., Edom, Tex. Aeroplane. No. 1,397,602; Nov. 15.

Smith Locomotive Adjustable Hub Company. (See Babe, Charles W., assignor.)

Smith, Reuben S., assignor to A. O. Smith Corporation, Milwaukee, Wis. Method of and apparatus for forming and assembling metal elements. No. 1,397,220; Nov. 15.

Smith, Charles A., Atlanta, Ga. Vehicle-wheel. No. 1,397,240; Nov. 15.

Snow, Arthur E., Erie, Pa., assignor to The American Laundry Machinery Company, Norwood, Ohio. Clothes-pressing apparatus. No. 1,397,300; Nov. 15.

Société Anonyme Ateliers Otto-Pitre. (See Durenge, Alphonse, assignor.)

Société Lyonnaise Des Recherche Catalytiques, Camail, Cochet, Gritte & Cie. (Societe en commandite.) (See Camail, E., Cochet, and Gritte, assignor.)

Solan, Patrick F., Brooklyn, and H. S. Balliet, New York, N. Y. Structural framework for walls, partitions, roofs, &c. No. 1,397,301; Nov. 15.

Sager, Ellis C., Chattanooga, Tenn. Treatment of phosphates. No. 1,396,975; Nov. 15.

Sorber, Samuel R., et al. (See Lambour, Luther J., assignor.)

Spardex Electrical Products Company Limited. (See Hudon, A., and Ward, assignors.)

Sparks, William, Jackson, Mich., assignor to The Sparks-Withington Company, Cleveland, Ohio. Radiator. No. 1,397,116; Nov. 15.

Sparks-Withington Company, The. (See Sparks, William, assignor.)

Spelts, George A., Jr., assignor to Ulysses Engine Company, Ulysses, Nebr. Internal-combustion engine. No. 1,396,907; Nov. 15.

Spira, Walter J., White Plains, N. Y., assignor to Hudson Motor Specialties Company, Philadelphia, Pa. Spring-brush for timers. No. 1,397,150; Nov. 15.

Sprague, Douglas, et al. (See Townsend, Frederick H., assignor.)

Squier, William H., Bartlesville, Tex. Automobile-signal. No. 1,397,463; Nov. 15.

Stanowsky, George, Manistique, Mich. Fruit-gatherer. No. 1,397,464; Nov. 15.

Stark, Henry A., Milwaukee, Wis. Clip. No. 1,397,151; Nov. 15.

Stacy, Grover C., Dallas, Tex. Cotton-cleaner and boll-breaker. No. 1,397,257; Nov. 15.

Stallsmith, Joseph F., assignor of one-half to H. P. Utz, Kansas City, Mo. Carpet-cleaning machine. No. 1,396,977; Nov. 15.

Stanley Insulating Company. (See Smith, Herbert M., assignor.)

Ste The Dunlop Rubber Co. (See Macbeth, Allan, assignor.)

Stanley, Ernest B., Lawrenceville, Ill. Tire-changing tool. No. 1,397,465; Nov. 15.

Stein, Rudolph F., Minneapolis, Minn., assignor to United States Ordnance Company, Washington, D. C. Dismantling secondary batteries. (Reissue.) No. 15,230; Nov. 15.

Stephenson, Leigh J., assignor to W. T. Fenton, B. Y. Becker, L. A. Williams, G. B. Burrage, and L. J. Stephenson, trustees, Chicago, Ill. Motor-control system. No. 1,397,235; Nov. 15.

Stephenson, Leigh J., et al., trustees. (See Stephenson, Leigh J., assignor.)

Stevens, George C., Seattle, Wash. Aeroplane attachments. No. 1,396,854; Nov. 15.

Stimson, Herman B., Norman, Okla. Emergency-spar for vehicle-wheels. No. 1,397,136; Nov. 15.

Steddard, George P. (See Carrah, A. W., and Steddard.)

Stolz, Otto G., Chicago, Ill. Film-splicing device. No. 1,396,895; Nov. 15.

Strong, Leon B., Livingston, Mont. Transmission mechanism. No. 1,397,494; Nov. 15.

Stuart, Le Roy B. (See Patterson, J. C., and Stuart.)

Stupich, David. (See Markovich, Mike, assignor.)

Sturtevant, Laurance H. (See Sturtevant, Thomas L., T. J., and L. H.)

Sturtevant Mill Company. (See Sturtevant, Thomas J., assignor.)

Sturtevant Mill Company. (See Sturtevant, Thomas L., assignor.)

Sturtevant Mill Company. (See Sturtevant, Thomas L., T. J., and L. H., assignors.)

Sturtevant, Thomas J. (See Sturtevant, Thomas L., T. J., and L. H.)

Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Screen-separator. No. 1,397,338; Nov. 15.

Sturtevant, Thomas L., Quincy, assignor to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,397,237; Nov. 15.

Sturtevant, Thomas L., Quincy, assignor to Sturtevant Mill Company, Boston, Mass. Screen-separator. No. 1,397,239; Nov. 15.

Sturtevant, Thomas L., Quincy, assignor to Sturtevant Mill Company, Boston, Mass. Screen-separator. No. 1,397,340; Nov. 15.

Sturtevant, Thomas L., Quincy, assignor to Sturtevant Mill Company, Boston, Mass. Screen-separator. No. 1,397,341; Nov. 15.

Sturtevant, Thomas L., Quincy, assignor to Sturtevant Mill Company, Boston, Mass. Screen-separator. No. 1,397,342; Nov. 15.

Sturtevant, Thomas L., Quincy, assignor to Sturtevant Mill Company, Boston, Mass. Screen-separator. No. 1,397,343; Nov. 15.

Sturtevant, Thomas L., Quincy, T. J. Sturtevant, Wellesley, Mass., and L. H. Sturtevant, Temple, N. H., assignors to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,397,336; Nov. 15.

Subietta, William M., assignor of one-half to C. M. Blair, Los Angeles, Calif. Grader. No. 1,397,063; Nov. 15.

Seekoff, Louis A., Chicago, Ill. Spring-cushion construction. No. 1,397,021; Nov. 15.

Sugg, John V., Dawson Springs, Ky. Window. No. 1,397,117; Nov. 15.

Sumner, Henry W., Seattle, Wash. Reversing engine control means. No. 1,397,258; Nov. 15.

Sutherland, Norman A. (See Schinke, E. C., and Sutherland.)

Sutter, Josiah H., Wichita, Kans. Crank-shaft-dressing machine. No. 1,397,153; Nov. 15.

Swimmer, Robert, New York, N. Y. Soap-dispensing apparatus. No. 1,397,244; Nov. 15.

Snyder, Leon A., Newark, N. J. Umbrella. No. 1,397,466; Nov. 15.

Symons, Wilson E., New York, N. Y. Shock-absorbing mechanism. No. 1,396,896; Nov. 15.

Szmyd, Frank, Waltersburg, Pa. Utensil implement. No. 1,397,345; Nov. 15.

Szmanski, Michael. (See Tworski, Martin, assignor.)

Tabulating Machine Company, The. (See Kabstrom, August, assignor.)

Tacchella, Adolf, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Engine injection-valve. No. 1,396,978; Nov. 15.

Taprell Loomis & Company. (See Cameron, James A., assignor.)

Taraseff, John, New York, N. Y. Cutting system. No. 1,397,302; Nov. 15.

Tarvin, John C., deceased, Maryville, Tenn.; M. C. Tarvin, administratrix. Pulveriser. No. 1,397,467; Nov. 15.

Tarvin, Mary C., administratrix. (See Tarvin, John C.)

Taussig, Gottlieb, New York, N. Y. Machine for coloring motion-picture films. No. 1,396,791; Nov. 15.

Taylor, Charles, Kearsley, near Manchester, England. Method of bleaching and apparatus therefor. No. 1,396,792; Nov. 15.

Tees, Daniel H., Chicago, Ill., and A. Wood, Hamilton, Ohio, assignors to Niles-Bement-Pond Company, New York, N. Y. Quartering and crank-pin-turning machine. No. 1,397,468; Nov. 15.

Thetos Company, The. (See Schaub, Jacob, assignor.)

Thomas, George H., assignor to Flexible Couplings Company, Westfield, N. Y. Flexible shaft-coupling. No. 1,396,979; Nov. 15.

Thomas Manufacturing Company, The. (See Lorimer, George W., assignor.)

Thomas, Phillips, Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Condenser. No. 1,396,897; Nov. 15.

Thompson, Albert E., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Can-drainer. No. 1,397,153; Nov. 15.

Thornber, John, assignor to Bradford Dyers Association Limited, Bradford, England. Apparatus for use in connection with machines for bleaching, dyeing, finishing, and otherwise treating fabrics. No. 1,396,980; Nov. 15.

Tiefel, Charles G., assignor to Todd Protectograph Company, Rochester, N. Y. Check-writer. No. 1,397,118; Nov. 15.

Tirrill, Allen A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulating system. No. 1,396,898; Nov. 15.

Tobey, Charles W., Fairhaven, assignor to M. M. Rhodes & Sons Company, Taunton, Mass. Upholstery-nail. No. 1,397,388; Nov. 15.

Todd Protectograph Company. (See Tiefel, Charles G., assignor.)

Torgrsen, Bernt B., Seattle, Wash. Theater. No. 1,397,064; Nov. 15.

Tomasek, Frank, Chicago, Ill. Automobile bumper. No. 1,396,944; Nov. 15.

Torbensen Axle Company, The. (See Torbensen, Viggo V., assignor.)

Torbensen, Viggo V., assignor to The Torbensen Axle Company, Cleveland, Ohio. Driving mechanism for motor-vehicles. No. 1,397,491; Nov. 15.

Torbensen, Viggo V., assignor to The Torbensen Axle Company, Cleveland, Ohio. Motor-vehicle driving mechanism. No. 1,397,496; Nov. 15.

Townsend, Frederick H., New York, assignor of one-half to D. Sprague, Mount Vernon, N. Y., and one-half to H. C. Karlson, Hasbrouck Heights, N. J. Wrenching-implement. No. 1,397,023; Nov. 15.

Traphagen, Harry R., assignor to Emerson-Brantingham Company, Rockford, Ill. Power-lift plow. No. 1,396,793; Nov. 15.

Travell, Warren, New York, N. Y. Rope-grip. No. 1,397,259; Nov. 15.

Travers, Lewis C., assignor of one-half to E. H. Mahoney Chair Company, Gardner, and one-half to Heywood-Wakefield Company, Wakefield, Mass. Folding chair. No. 1,396,794; Nov. 15.

Trogner, Roland S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-making machine. No. 1,397,154; Nov. 15.

Trottier, John E., New York, N. Y. Garbage-can. No. 1,397,260; Nov. 15.

Troy Wagon Works Company, The. (See Hudson, Warren R., assignor.)

Truby, Franklin J., assignor to Automatic Electric Company, Chicago, Ill. Automatic trunking system. (Reissue.) No. 15,228; Nov. 15.

Tucker, Theddeus C., Oakland, Calif. Salting nuts in the shell. No. 1,397,187; Nov. 15.

Tunnell, Harry E., New York, N. Y. Liquid-projecting device. No. 1,397,023; Nov. 15.

Turbine Air Tool Company, The. (See Kraber, George L., assignor.)

Turja, John E. (See Jacobson, J. W., and Turja.)

Turner, Walter V., deceased, Wilkinsburg, by The Westinghouse Air-Brake Co., assignee, Wilmerding, Pa. Regenerative brake device. (Reissue.) No. 15,229; Nov. 15.

Twombly, Alexander H., New York, A. P. Lundin, Bayside, N. Y., and E. A. Marr, Norfolk, Va., assignors, by mesne assignments, to American Balsa Company, Inc. Treating wood. No. 1,396,899; Nov. 15.

Tworski, Martin, Vancouver, British Columbia, assignor of one-half to M. Szymanski, Winnipeg, Manitoba, Canada. Planting-machine. No. 1,396,900; Nov. 15.

Typewriter Calculating Attachment Company. (See Schinke, E. C., and Sutherland, assignors.)

U. S. Industrial Alcohol Co. (See Backhaus, Arthur A., assignor.)

U. S. Industrial Alcohol Co. (See Kalen, Denso E., assignor.)
Ulymes Engine Company. (See Speits, George A., Jr., assignor.)
United Alloy Steel Corporation. (See Maineri, Daniel L., assignor.)
United Harrow Mfg. Co. (See McNabb, Ernst W., assignor.)
United Shoe Machinery Corporation. (See Morrill, Alfred R., assignor.)
United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)
United States Automatic Corporation. (See Arbuckle, Samuel F., assignor.)
United States Chain & Forging Co. (See Sauerwald, Irvin, assignor.)
United States Ordnance Company. (See Stein, Rudolph F., assignor.) (Reissue.)
Utz, Harvey F. (See Stallsmith, Joseph F., assignor.)
Van Fleet, Elon J., Joliet, assignor to W. E. Pratt, Chicago, Ill. Jack-lever connection. No. 1,396,901; Nov. 15.
Van Heusen, John M., Jamaica Plain, Mass. Collar. No. 1,397,261; Nov. 15.
Van Tuyl, Thomas. (See Cook, A. E., and Van Tuyl.)
Vandemberg, Clarence E., Cherrygrove, Pa. Wrench. No. 1,396,981; Nov. 15.
Varley, Thomas W., and W. C. Nein, New York, N. Y. Automatic train control. No. 1,397,024; Nov. 15.
Vaughn, Joseph D., Salt Lake City, Utah. Slicing-machine. No. 1,397,469; Nov. 15.
Ventress, Robert E., Sr., Mobile, Ala. Hydroplane. No. 1,397,470; Nov. 15.
Vestine, Andrew O., Watertown, assignor to L. C. Chase & Company, Boston, Mass. Liquid-fuel burner. No. 1,397,389; Nov. 15.
Viebrock, Carl H. and H. W., Douglas, Wash. Valve-grinder. No. 1,397,390; Nov. 15.
Viebrock, Henry W. (See Viebrock, Carl H. and H. W.)
Viturro, Marcelino. (See Anselmi, C., and Viturro.)
Vogel, Henry S., Grant City, Mo. Game. No. 1,396,795; Nov. 15.
Vreeland, George W. (See McGee, F. R., and Vreeland.)
Wagner Electric Manufacturing Company. (See Cole, Lovell E., assignor.)
Wagner Electric Manufacturing Company. (See Fynn, Valere A., assignor.)
Wahl, John C., Chicago, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y. Calculating-machine. No. 1,397,188; Nov. 15.
Wainola, Matti, Los Angeles, Calif. Toy. No. 1,396,902; Nov. 15.
Walker, William, Fairbury, Ill. Tile and sewer trap. No. 1,397,471; Nov. 15.
Wall, William F., assignor to National Motor Car & Vehicle Corporation, Indianapolis, Ind. Brake. No. 1,396,796; Nov. 15.
Wallace, Allen, Moorestown, N. J., assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Electric-locomotive truck. No. 1,397,472; Nov. 15.
Ward, Otis A., Evanston, Ill. Wrench. No. 1,396,982; Nov. 15.
Ward, Percy W. (See Hudon, A., and Ward.)
Waream, Charles E., assignor to American Laundry Machinery Company, Norwood, Ohio. Collar-shaper. No. 1,397,303; Nov. 15.
Webb, John M., Flat, Tex. Pink-boll-weevil destroyer. No. 1,396,797; Nov. 15.
Weber, William W., Sacramento, Calif. Insulation-cutter. No. 1,396,903; Nov. 15.
Weinberg, Alexander, Pittsburgh, and C. V. Linderman, North Braddock, Pa. Baseball-game apparatus. No. 1,396,798; Nov. 15.
Weiss, Arnold A. (See Nelson, Elmer F., assignor.)
Wells, Cornelius L., Cumberstone, Md. Lubricating device. No. 1,397,085; Nov. 15.
Wenthe, William C. (See Neiswender, C. A., and Wenthe.)
Werlin, Charles H., Columbus, Ohio. Gas and air mixing device. No. 1,397,473; Nov. 15.
West, Chalmers A., Mangum, Okla. Draft-evener. No. 1,397,474; Nov. 15.
West, Horatio G., Harrisville, R. I. Picker. No. 1,397,475; Nov. 15.
Westerberg, Carl A., assignor to Aktiebolaget C. E. Johansson, Eskilstuna, Sweden. Base for holders for measuring-blocks. No. 1,397,189; Nov. 15.
Western Electric Company. (See Atwood, George F., assignor.)
Western Electric Company. (See Clausen, H. P., and Goodrum, assignors.)
Western Electric Company. (See Clausen, Henry P., assignor.)
Western Electric Company. (See Fowler, Clarence B., assignor.)
Western Electric Company. (See Goodrum, Charles L., assignor.)
Western Electric Company. (See Haddock, Arthur, assignor.)
Westhern Electric Company. (See Halter, Carl, assignor.)
Western Electric Company. (See Harrison, Henry C., assignor.)
Western Electric Company. (See Hill, Owen E., assignor.)
Western Electric Company. (See Jillard, A. G., and Bracken, assignors.)
Western Electric Company. (See Johnson, Kenneth S., assignor.)
Western Electric Company. (See Mather, George E., assignor.)
Western Electric Company. (See Minton, John P., assignor.)
Western Electric Company. (See Pugh, Harry W., assignor.)
Western Electric Company. (See Scriven, Edward O., assignor.)
Western Electric Company. (See Wilbur, Ray S., assignor.)
Westinghouse Air Brake Co., assignee. (See Turner, Walter V., assignor.) (Reissue.)
Westinghouse Electric & Manufacturing Company. (See Brace, Porter H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Chubb, Lewis W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Clarke, John A., Jr., assignor.)
Westinghouse Electric & Manufacturing Company. (See Colby, Ora A., assignor.)
Westinghouse Electric and Manufacturing Company. (See Fortescue, Charles L., assignor.)
Westinghouse Electric and Manufacturing Company. (See Hand, Edward A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hellmund, Rudolf M., assignor.)
Westinghouse Electric & Manufacturing Company. (See James, Henry D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Jones, Maurice P., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lammers, Edwin S., Jr., assignor.)
Westinghouse Electric & Manufacturing Company. (See Meyer, Harry R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Nagel, Harry C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Scott, Charles F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Thomas, Phillips, assignor.)
Westinghouse Electric & Manufacturing Company. (See Tirrill, Allen A., assignor.)
White, D'Orsay M., assignor to Cadillac Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,396,904; Nov. 15.
White, D'Orsay M., Indianapolis, Ind., assignor to La Fayette Motors Company. Detachable transmission construction. No. 1,397,304; Nov. 15.
White, Edwin, Baltimore, Md., assignor to Continental Can Company, Inc. Syracuse, N. Y. Sheet-feeding mechanism. No. 1,397,305; Nov. 15.
White, H., Manufacturing Company. (See Kahns, Walter R., assignor.)
White, Manley A., Beverly, Mass. Portable floating breakwater or bulkhead. No. 1,397,025; Nov. 15.
White, William C., Portsmouth, N. H. Egg-ehucker. No. 1,397,306; Nov. 15.
Whyte, Frederick M., Tarrytown, N. Y. Brake-hanger. No. 1,396,945; Nov. 15.
Wiard, Frederick, assignor to American Standard Tool Company, Detroit, Mich. Milling-cutter. No. 1,397,119; Nov. 15.
Wiberley, Frank, Jamaica, assignee to Barthels Manufacturing Company, Glendale, N. Y. Wearing-apparel. No. 1,396,799; Nov. 15.
Wiggins, Edward J., assignor of one-half to G. A. Pearson, Chicago, Ill. Fluid-controlling apparatus. No. 1,397,190; Nov. 15.
Wilbur, Ray S., Lyndhurst, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Testing systems. No. 1,396,800; Nov. 15.
Wilcox, Hiram J., Placerville, Calif. Revolving harrow. No. 1,396,905; Nov. 15.
Williams, Alfred O., South Bend, Ind., assignor to Clark Equipment Company, Buchanan, Mich. Differential gearing. No. 1,397,086; Nov. 15.
Williams, Anthony F. (See Lyon, E., and Williams.)
Williams, George C. F., Hartford, Conn. Nail-string machine. No. 1,397,191; Nov. 15.
Williams, James L., New York, N. Y., assignor to The Dentists' Supply Company. Crown-tooth. No. 1,397,087; Nov. 15.
Williams, James L., New York, N. Y., assignor to The Dentists' Supply Company. Denture and tooth therefor. No. 1,397,192; Nov. 15.
Williams, Lynn A., *et al.*, trustees. (See Stephenson, Leigh J., assignor.)
Williams, Milton F., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Stirrup-hammer. No. 1,396,983; Nov. 15.
Williams Patent Crusher and Pulverizer Company. (See Williams, Milton F., assignor.)
Willis, George M., Chicago, Ill. Resilient wheel. No. 1,396,984; Nov. 15.)
Wilmot Engineering Company. (See Law, James C., assignor.)
Wilson, Ernest S., Garrison, Iowa. Advertising novelty. No. 1,397,476; Nov. 15.
Wilson, Minard A., Irvington, N. J. Combination-tail-piece for violins. No. 1,397,193; Nov. 15.
Wilson Welder & Metals Company. (See Churchward, Alexander, assignor.)

Winchester Repeating Arms Company. (See Gallagher, George D., assignor.)
Winkler, Alfred, and M. Dannecker, Neuwied, Germany. Envelop roller folding-machine, in combination with a closing-flap-gumming machine. No. 1,396,906; Nov. 15.
Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-bottom. No. 1,396,801; Nov. 15.
Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for molding heel-piles. No. 1,396,802; Nov. 15.
Wirebounds Patents Company. (See Mead, Howard G., assignor.)
Wisch, Walter J. (See Holmes, G. E., and Wisch.)
Wokoun, Frank, Baltimore, Md. Record-envelop. No. 1,397,477; Nov. 15.
Wolf, Charles, Portland, Oreg. Link saw. No. 1,397,026; Nov. 15.
Wolf, John L., Logansport, Ind. Adjustable shoe-last. No. 1,396,907; Nov. 15.
Wolf, Eugen, Tempelhof, near Berlin, Germany. Cinematographic arrangement. No. 1,397,346; Nov. 15.
Wolters, Benjamin W., Holland, Mich. Dough-raising appliance. No. 1,396,908; Nov. 15.
Wood, Augustus. (See Teas, D. H., and Wood.)
Wood, Frank W., Montclair, N. J., assignor to Charles Cory & Son, Incorporated, New York, N. Y. Electric indicator. No. 1,396,803; Nov. 15.
Wood, Frans J., Des Moines, Iowa. Threshing-machine. No. 1,397,347; Nov. 15.
Wood, Henry A., Kingston, Ontario, Canada. Valve-cap. No. 1,397,027; Nov. 15.
Wood, Pierre O., Memphis, Tenn., and H. L. Norman, Springfield, Mo. Speed-control device. No. 1,397,194; Nov. 15.
Wood, William T., St. Louis, Mo. Conveyer. No. 1,396,804; Nov. 15.
Worman, Harry L. (See Wood, P. O., and Worman.)
Wortelmann, Gustav A., New York, N. Y. Fireproof paint. No. 1,397,028; Nov. 15.
Yanow, Jacob, assignor to Gram Headwear Mfg. Company, St. Louis, Mo. Cap. No. 1,396,985; Nov. 15.
York, Edgar L., assignor to Oasis Manufacturing Co., Peoria, Ill. Ironing-roll. No. 1,397,348; Nov. 15.
Young, Frank W., Verona, N. J. Carbonizing apparatus. No. 1,397,029; Nov. 15.
Zetterlund, Theodor, assignor to Milwaukee Press & Machine Co., Milwaukee, Wis. Punch-press chuck. No. 1,397,307; Nov. 15.
Zieka, Adam, Jr., assignor to Milwaukee Press & Machine Company, Milwaukee, Wis. Crosshead pitman connection. No. 1,397,308; Nov. 15.
Zook, Annabelle F., Lewistown, Mont. Flour-sifter. No. 1,397,478; Nov. 15.
Zsarnay, Béla, Belleville, assignor of one-half to A. Lewis, Newark, N. J. Figure toy. No. 1,397,195; Nov. 15.
Zsarnay, Béla, Belleville, N. J. Aeroplane. No. 1,397,196; Nov. 15.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Beach, Harry L., Coshocton, Ohio. Metal rack. No. 59,617; Nov. 15.
Beach, Harry L., Coshocton, Ohio. Display-stand. No. 59,618; Nov. 15.
Brubaker, William A., Akron, Ohio, assignor to H. McCreary, Indiana, Pa. Non-skid tire. No. 59,619; Nov. 15.
Bruner, Simon, New York, N. Y. Ribbon-clasp. No. 59,620; Nov. 15.
Camden City Cut Glass Co. (See Priestley, Albert F., assignor.)
Clark, Thomas H., Des Moines, Iowa. Dough-rounder. No. 59,621; Nov. 15.
Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Back plate of a wall-bracket for lighting-fixtures. No. 59,622; Nov. 15.
Daniel, Alfred P., Houston, Tex. Badge, button, or pin. No. 59,623; Nov. 15.
De Vilbiss Manufacturing Company, The. (See De Vilbiss, Thomas A., assignor.)
De Vilbiss, Thomas A., assignor to The De Vilbiss Manufacturing Company, Toledo, Ohio. Atomiser-head. No. 59,624; Nov. 15.
Dodge, Charles J., Brooklyn, N. Y. Sound-amplifier. No. 59,625; Nov. 15.
Dunlap, Alexander J., Lincoln, Nebr. Marker. No. 59,626; Nov. 15.
Dursey, Lloyd M., and H. J. Montgomery, Franklin, Pa. Signal for automobiles. No. 59,627; Nov. 15.
Elderkin, James K., Newark, N. J. Rectifier. No. 59,628; Nov. 15.
Elderkin, James K., Newark, N. J. Battery-tester. No. 59,629; Nov. 15.
Englander, Benjamin B., assignor to Englander Spring Bed Company, Brooklyn, N. Y. Hammock. No. 59,630; Nov. 15.
Englander Spring Bed Company. (See Englander, Benjamin B., assignor.)
Essayan, Harold G., Providence, R. I. Emblem, badge, stickpin, or similar article. No. 59,631; Nov. 15.
Feiertag, John E., Milford, Ohio. Spoon-holder. No. 59,632; Nov. 15.
Fetzer, S. P., *et al.*, trustees. (See Laws, Arthur J., assignor.)
Fishel, Henry W., New York, N. Y. Article of jewelry—namely, a pin, brooch, or article of similar nature. Nos. 59,636–44; Nov. 15.
Fishel, Leslie H., New York, N. Y. Buckle. Nos. 59,633–5; Nov. 15.
Foote, Edward H., Somerville, Mass. Milk-bottle-cap remover. No. 59,645; Nov. 15.
Fraass, August E., New Rochelle, N. Y. Suction-bulb. No. 59,646; Nov. 15.
Frost, Karl, and O. Jessl, Chicago, Ill. Combination toothbrush, paste, and glass holder. No. 59,647; Nov. 15.
Goodrich, B. F., Company, The. (See Robb, Arthur A., assignor.)
Goodyear Tire & Rubber Company, The. (See Hoover, Clair G., assignor.)
Gregory, George, Bay City, Mich. Funnel. No. 59,648; Nov. 15.
Heck, George D., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Dental-equipment stand. Nos. 59,649–50; Nov. 15.
Heisey, A. H., & Co. (See Heisey, T Clarence, assignor.)
Heisey, T Clarence, assignor to A. H. Heisey & Co., Newark, Ohio. Goblet. No. 59,651; Nov. 15.
Holderle, Carl L. (See Holderle, Frederick W. and C. L.)
Holderle, Frederick W. and C. L., Rochester, N. Y. Beverage-dispenser. No. 59,652; Nov. 15.
Hoover, Clair G., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire. No. 59,653; Nov. 15.
Hornstein, William M., Washington, D. C. Sign. No. 59,654; Nov. 15.
Hotchkiss, John, Sebring, Ohio. Automobile-tire. No. 59,655; Nov. 15.
Hudson, Clarence D., Los Angeles, Calif. Paper-weight. No. 59,656; Nov. 15.
Hygrade Lighting Fixture Corporation. (See Cohn, Harry, assignor.)
Imperial Counsel of the Universe, Princes of Mosera. (See Miller, Thornton F., assignor.)
International India Rubber Corporation. (See Odell, George W., assignor.)
Jacobson, Max, New York, N. Y. Astral board. No. 59,657; Nov. 15.
James, W. Benson, *et al.*, trustees. (See Laws, Arthur J., assignor.)
Jessl, Oswald. (See Frost, K., and Jessl.)
Kander, Irving J., Brooklyn, N. Y. Vamp of a shoe. No. 59,658; Nov. 15.
Kern, Charles J., Buffalo, assignor to New Era Toy Manufacturing Company, Inc., Cherry Creek, N. Y. Teeter toy. No. 59,659; Nov. 15.
Kern, Charles J., Buffalo, assignor to New Era Toy Manufacturing Company, Inc., Cherry Creek, N. Y. Toy table. No. 59,660; Nov. 15.
Klein, Max, assignor to Shapiro & Aronson, Inc., New York, N. Y. Candle-plate. No. 59,661; Nov. 15.
Lamkay & Seaman. (See Mueller, Charles O., assignor.)
Lauson, Hector, Cincinnati, Ohio. Bottle protecting and carrying device. No. 59,662; Nov. 15.
Laws, Arthur J., Cleveland, assignor to J. E. Townsend, S. P. Fetzer, and W. B. James, trustees, Lakewood, Ohio. Medallion. No. 59,663; Nov. 15.
Liskowacki, Adalbert, Detroit, Mich. Standard. No. 59,664; Nov. 15.
Mayer, Joshua W., New York, N. Y. Ring or similar article. No. 59,665; Nov. 15.
McCreary, Harry. (See Brubaker, William A., assignor.)
Miller, Frank L., Jr., Chattanooga, Tenn. Doll. Nos. 59,666–7; Nov. 15.
Miller, Thornton F., assignor to Imperial Counsel of the Universe, Princes of Mosera, Pittsburgh, Pa. Badge. No. 59,668; Nov. 15.
Montgomery, Herbert J. (See Durney, L. M., and Montgomery.)
Morelle, Alvin, Doylestown, Pa. Talking-machine cabinet or casing. No. 59,669; Nov. 15.
Moser, John D., Hamilton, Ontario, Canada. Clamp for holding partitions, &c., in showcases and the like. No. 59,670; Nov. 15.
Mueller, Charles O., assignor to Lamkay & Seaman, Inc., New York, N. Y. Cloth. No. 59,671; Nov. 15.
Mueller, Rudolph, Chicago, Ill. Container for a liquid-dispenser. No. 59,672; Nov. 15.
New Era Toy Manufacturing Company. (See Kern, Charles J., assignor.)
Odell, George W., assignor to International India Rubber Corporation, South Bend, Ind. Tire-casing. No. 59,673; Nov. 15.
Odell, George W., assignor to International India Rubber Corporation, South Bend, Ind. Tire-tread. No. 59,674; Nov. 15.

Orwit, John P., Big Bay, Mich. Toy. No. 59,676; Nov. 15.
Otis, Robert W. (See Patten, C. H., and Otis.)
Parker, Lyman B., Miami, Okla. Cabinet. No. 59,676; Nov. 15.
Patten, Charles H., and R. W. Otis, Providence, R. I. Clip. No. 59,677; Nov. 15.
Peterson, Arno H., Milwaukee, Wis. Electric drill. No 59,678; Nov. 15.
Pierce, Frank, Oswego, N. Y. Glove. No. 59,679; Nov. 15.
Pisk, Albert, & Company. (See Schlaich, Albert E., assignor.)
Plate, Ernst W., Philadelphia, Pa. Bridge for sitting musical instruments. No. 59,680; Nov. 15.
Priestley, Albert F., Philadelphia, Pa., assignor to Camden City Cut Glass Co., Camden, N. J. Ornamentation for a cut-glass article of manufacture. No. 59,681; Nov. 15.
Reichert, John, Racine, Wis. Trace-carrier. No. 59,682; Nov. 15.
Rietz, Carl A., San Francisco, Calif. Liquid-agitating machine. No. 59,683; Nov. 15.
Robb, Arthur A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Cushion-tire. No. 59,684; Nov. 15.
Robinson, Stanley D., Hamilton, Ontario, Canada. Heating-element section for electrical grates and the like. No. 59,685; Nov. 15.
S. S. White Dental Manufacturing Company. (See Hock, George D., assignor.)
Schwenning, Ernest H., Kansas City, Mo. Spark-plug extension. No. 59,686; Nov. 15.
Seabrook, Albert E., assignor to Albert Pick & Company, Chicago, Ill. Combined Nos. 59,687; Nov. 15.
Shearing, John C., Walsall, England. Clothes-hanger. No. 59,688; Nov. 15.
Shapiro & Aronson. (See Klein, Max, assignor.)
Shuler, Edward P., Scottdale, Pa. Tire-tread. No. 59,689; Nov. 15.
Sir, William L., Kansas City, Mo. Finned tubular boiler unit. No. 59,690; Nov. 15.
Spencer, Frank, West Allis, Wis. Butter-cutting gage. No. 59,691; Nov. 15.
Steel, Walter, Philadelphia, Pa. Paper-wrapped candy known as donkey bonnet pops. No. 59,692; Nov. 15.
Tenny, Ronnie, David City, Nebr. Highway advertising and directing sign. No. 59,693; Nov. 15.
Townsend, J. E., *et al.*, trustees. (See Laws, Arthur J., assignor.)
Ulbrich, Anthony H., Bloomington, Ill. Finger-ring. No. 59,694; Nov. 15.
Walter, Robert, St. Louis, Mo. Basket. Nos. 59,695-6; Nov. 15.
Walter, Robert and R. P., Jr., St. Louis, Mo. Basket. No. 59,697; Nov. 15.
Walter, Robert P., Jr. (See Walter, Robert and R. P., Jr.)
Wilson, Charles R., Charleston, W. Va. Highway-sign. No. 59,698; Nov. 15.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Akron Trust Company, The, Akron, Ohio. Trustee, including pads. No. 148,343; Nov. 15.
Albemarle Paper Mfg. Co., The, Richmond, Va. Writing, printing, blotting, tissue, and wrapping papers. No. 148,345; Nov. 15.
Amalgamated Tire Stores Corporation, New York, N. Y. Rubber tires and tubes. No. 148,344; Nov. 15.
American Lady Corset Company, Detroit, Mich. Corsets and brassieres. No. 148,345; Nov. 15.
American Rolling Mill Company, The, Middletown, Ohio. Certain products of pure iron. No. 148,346; Nov. 15.
American Steel Foundries, Chicago, Ill. Certain named metal pipe-fittings. No. 148,347; Nov. 15.
American Steel Wool Mfg. Co. Inc., New York, N. Y. Steel-wool for cleaning and polishing purposes. No. 148,348; Nov. 15.
American Turpentine Company, The, Cleveland, Ohio. Paints, enamels, varnishes, and stains. No. 148,567; Nov. 15.
Argus Manufacturing Company, Chicago, Ill. Eraser for typist's use. No. 148,566; Nov. 15.
Associated Merchandising Corporation, Newark, N. J., and New York, N. Y. Toilet preparations—namely, perfume, toilet water, cold-cream, &c. No. 148,349; Nov. 15.
Atlas Truck Corporation, York, Pa. Motor-trucks. No. 148,350; Nov. 15.
B. & B. Sign Co. Inc., New York, N. Y. Electric display-signs for windows and show-cases. No. 148,603; Nov. 15.
Bailey, Junius H., Macon, Ga. Coffee. No. 148,568; Nov. 15.
Baker, Nora T., Columbus, Ohio. Monthly magazine. No. 148,351; Nov. 15.
Beaver Varnish Company, Inc., Buffalo, N. Y. Mixed paints in oil, paint enamels, varnishes, &c. No. 148,352; Nov. 15.
Beckett, Laycock & Watkinson Limited, London, England. Channel-shaped metal made in lengths and adapted to be cut to size. No. 148,353; Nov. 15.
Beerman-Fortgang-Doman, Inc., New York, N. Y. Trimmed and tailored hats. No. 148,354; Nov. 15.
Beldam, George W., Ealing, England. Rubber sponges. No. 148,355; Nov. 15.
Bennett and Aspden Company, Philadelphia, Pa. Velvets in the piece. Nos. 148,356-7; Nov. 15.
Benz, Adolph, Jr., Peoria, Ill. Noodles. No. 148,569; Nov. 15.
Berghoff Brewing Ass'n, Fort Wayne, Ind. Non-alcoholic cereal beverage. No. 148,358; Nov. 15.
Bethlehem Steel Company, Bethlehem, Pa. Metal-working presses. No. 148,570; Nov. 15.
Bickmore Company, The, Old Town, Me. Medicinal preparations for family use and live stock. No. 148,571; Nov. 15.
Blau, Lester, Philadelphia, Pa. Knitted and woven bloomers, vests, and union-suits. No. 148,359; Nov. 15.
B. J. S. Specialty Company, New York, N. Y. Prepared cloths for use on windshields of vehicles and transparencies to prevent the accumulation of rain and moisture. No. 148,360; Nov. 15.
Bjur Bros. Incorporated, New York, N. Y. Piaaos and player-pianos. No. 148,361; Nov. 15.
Bodendick, Melvina, Kansas City, Mo. Medicine for hog-cholera. No. 148,362; Nov. 15.
Borden Company, The, Warren, Ohio. Diestocks, hand pipe-cutters, and parts thereof, &c. No. 148,363; Nov. 15.
Brailgan, Green & Co., Baltimore, Md. Articles of clothing. No. 148,364; Nov. 15.
Brendlinger Company, Pittsburgh, Pa. Extracts and flavorings for food purposes. No. 148,365; Nov. 15.
Brown, Clarence W., Philadelphia, Pa. Candles. No. 148,572; Nov. 15.
Byrnes, Eugene, New York, N. Y. Hosiery. No. 148,367; Nov. 15.
Byrnes, Eugene, New York, N. Y. Cloth, straw, felt, and washable-fabric hats and cloth and washable-fabric caps. No. 148,368; Nov. 15.
Byrnes, Eugene, New York, N. Y. Blouses, pajamas, and overalls. No. 148,369; Nov. 15.
Byrnes, Eugene, New York, N. Y. Cloth and washable-fabric suits, overcoats, and trousers. No. 148,370; Nov. 15.
Carlisle Shoe Co., Carlisle, Pa. Leather boots and shoes for men's, women's, and children's use. No. 148,371; Nov. 15.
Causey, Mrs. Georgia M., Macon, Ga. Medicinal preparations. No. 148,372; Nov. 15.
Celluloid Company, The, New York, N. Y. Certain toilet and paint brushes, whisk-brooms. Nos. 148,373-4; Nov. 15.
Cessna, Charles B., Chicago, Ill. Eye-waters or eye-lotions and antiseptic and healing ointments. No. 148,375; Nov. 15.
Chatfield Manufacturing Company, The, Cincinnati, Ohio. Prepared roofing in roll, sheet, or shingle form. No. 148,376; Nov. 15.
Cheek, Simmons L., Birmingham, Ala. Toilet preparations. No. 148,377; Nov. 15.
Chicago Pneumatic Tool Company, Chicago, Ill. Electric tools, motors, and circuit-breakers. No. 148,378; Nov. 15.
Clearwater, H. P., Hallowell, Me. Treatment for piles and hemorrhoids. No. 148,379; Nov. 15.
Cleveland Dental Manufacturing Company, The, Cleveland, Ohio. Dental instruments. No. 148,380; Nov. 15.
Co-Rhu-Co Medicine Company, Owensboro, Ky. Medical preparation for the treatment of rheumatism. No. 148,382; Nov. 15.
Cole, Walter, S., New York, N. Y. Taximbs and pleasure-automobiles. No. 148,366; Nov. 15.
Columbian Rope Company, Auburn, N. Y. Rope, twine, and cordage of vegetable fiber. No. 148,573; Nov. 15.
Cooley Mfg. Co. Inc., New York, N. Y. Cartridge-fuses, fuse-plugs, and dynamo and motor brushes. No. 148,384; Nov. 15.
Craddock-Terry Company, Lynchburg, Va. Leather shoes. No. 148,383; Nov. 15.
Crocker-Wheeler Company, Ampere, N. J. Starters, motors, dynamos, and rail-bases therefor. No. 148,444; Nov. 15.
Curtiss Candy Co., Chicago, Ill. Candy. Nos. 148,384-5; Nov. 15.
Davis Machine Tool Company, Inc., Rochester, N. Y. Lathes. No. 148,574; Nov. 15.
Dayton, Walter E., Chattanooga, Tenn. Medicinal preparation. No. 148,387; Nov. 15.
De Long Hook and Eye Company, The, Philadelphia, Pa. Snap-fasteners. No. 148,388; Nov. 15.
De Sesk, Henry L., Camden, N. J. Medical and surgical appliances. No. 148,576; Nov. 15.
Del Castillo, Rafael, & Co., New York, N. Y. Cotton piece goods. No. 148,886; Nov. 15.
Dick's Asbestos Company, London, England. Packing and hose of all kinds made of asbestos. No. 148,389; Nov. 15.
Ditzler Color Company, Detroit, Mich. Paste and dry paints, varnishes, primers, &c. No. 148,390; Nov. 15.
Donnet, Louis, Nice, France. Substitute for coffee. No. 148,391; Nov. 15.
Dorrance & Company, Inc., Philadelphia, Pa. Printed books. No. 148,392; Nov. 15.
Duplan Silk Corporation, New York, N. Y. Broad-silk piece goods. Nos. 148,393-4; Nov. 15.
E-Z Waist Company, The, New York, N. Y. Underwear—namely, sleeping-garments. No. 148,401; Nov. 15.
Edgewater Tapestry Looms, Inc., Edgewater, N. J., and New York, N. Y. Hand-woven tapestry and needle-point. No. 148,395; Nov. 15.
Edson Moore & Company, Detroit, Mich. Cotton piece goods, silk and cotton fabric, lawns, dimities, &c. No. 148,396; Nov. 15.
Emerson Phonograph Company, Inc. New York, N. Y. Phonograph-records. No. 148,397; Nov. 15.
Eng-Skell Company, Inc., San Francisco, Calif. Non-alcoholic multiless beverage and flavoring for same. No. 148,576; Nov. 15.
Equipment Manufacturing Company, The, Cleveland, Ohio. Motor or hand floor-trucks. No. 148,398; Nov. 15.
Erskine, James Lowe, Co., The, New York, N. Y. Shaving-brushes. No. 148,577; Nov. 15.
Ertley, Harvey A., Northumberland, Pa. Polishes for automobiles, furniture, &c. No. 148,399; Nov. 15.
Etchison Hat Company, Inc., Richmond, Va. Hats and caps for men, women, and children. No. 148,400; Nov. 15.
Farkas, Louis L., New York, N. Y. Chemical preparation used as a preventive of offsetting and smudging of printing. No. 148,402; Nov. 15.
Faust, Henry C., St. Louis, Mo. Chewing-gum. No. 148,403; Nov. 15.
Feore, K. A., & Co., Brooklyn, N. Y. Dressing-sacks, negligées, and undergarments. No. 148,404; Nov. 15.
Federal Rubber Company, The, Cudahy, Wis. Packing made wholly or partly of rubber or of composition material. No. 148,405; Nov. 15.
Fisher Flouring Mills Company, Seattle, Wash. Wheat-flour. No. 148,406; Nov. 15.
Folberth Auto Specialty Co., The, Cleveland, Ohio. Windshield-cleaners, squeegee type. No. 148,578; Nov. 15.
Forest Electric Co., Newark, N. J. Electric-battery testers. No. 148,408; Nov. 15.
Ford Auto Supply Company, St. Louis, Mo. Lubricating-oils. No. 148,407; Nov. 15.
Frazier, Russell R., Eldora, Iowa. Soaps for laundry and toilet purposes, for removing grease and stains from fabrics, &c. No. 148,410; Nov. 15.

Frozapure Milk Products Co., Birmingham, Ala. Milk products, ice-creams, sherbets, and frozen ices. No. 148,409; Nov. 15.

Gardos, Armand A., assignor to The United Drug and Candy Mfg. Co., Cleveland, Ohio. Laxative compound. No. 148,411; Nov. 15.

Gasser, M. M., Co., Duluth, Minn. Butter. No. 148,570; Nov. 15.

Gedro Mfg. Co., Quincy, Ill. Lubricating-greases. No. 148,412; Nov. 15.

Geigy Company, Inc., New York, N. Y. Dyestuffs. No. 148,590; Nov. 15.

Gibson, Geo. E., Co., New York, N. Y. Shaving-brushes. No. 148,413; Nov. 15.

Gilbert, Godfrey M., Chicago, Ill. Talking-machines and pianos. No. 148,414; Nov. 15.

Glick, Max, Co., The, Cleveland, Ohio. Candy. No. 148,415; Nov. 15.

Glidden Company, The, Cleveland, Ohio. Lithophone, (a manufactured product which is used as a base in the manufacture of paints.) No. 148,416; Nov. 15.

Goldberg, Solomon H., Chicago, Ill. Rubber tires of all kinds. No. 148,417; Nov. 15.

Goldelle Ginger Ale Co. Inc., Chicago, Ill. Non-alcoholic, non-cereal maltless beverages and syrup for making same. No. 148,418; Nov. 15.

Goodrich, B. F., Company, The, New York, N. Y. Hose made of rubber reinforced with fabric and a helix of metal. No. 148,419; Nov. 15.

Graham, Glenn A., Lapeer, Mich. Blank forms composing an efficiency-service system for dentists. No. 148,420; Nov. 15.

Great West Mill & Elevator Co., Amarillo, Tex. Wheat-flour. Nos. 148,421–2; Nov. 15.

Greilich, William, & Sons, Inc., Brooklyn, N. Y. Leather, canvas, and cloth shoes and slippers. No. 148,423; Nov. 15.

Guerin, Anna B., New York, N. Y. Boutonnière, badge, insignia, &c. No. 148,424; Nov. 15.

Hadley, William T., Ontario, Calif. Poultry medicine. No. 148,425; Nov. 15.

Hall, H. S., Inc., Jersey City, N. J. Laces, veils, nets, tricot cloth, and Milanese cloth in the piece. No. 148,426; Nov. 15.

Hall, William, & Co. Limited, Studley, England. Needles, toilet-pins, bodkins, knitting-pins, and crochet-hooks. No. 148,427 Nov. 15.

Harding, Robert, New York, N. Y. Dynamo and electric-motor brushes and brush-holders therefor. No. 148,581; Nov. 15.

Hathaway Wellington C., Hattiesburg, Miss. Non-alcohol beverages and syrup for making same. No. 148,428; Nov. 15.

Haywood Tire & Equipment Company, Marion, Ind. Tire-repair equipment. No. 148,429; Nov. 15.

Heller, Eli, New York, N. Y. Piece goods of cotton and of muslin. No. 148,430; Nov. 15.

Heller, L., & Son, Inc., New York, N. Y. Precious stones—viz., rubies, emeralds, and pearls. No. 148,431; Nov. 15.

Henderson, Thos., New York, N. Y. Food-flavoring extract for imparting a maple flavor. No. 148,432; Nov. 15.

Hepworth, S. S., Company, New York, N. Y. Centrifugal driers, centrifugal filters, centrifugal separators and unloaders, conveyers, elevators, and mixers therefor. No. 148,582; Nov. 15.

Hershey, Samuel W., York, Pa. Wheat-flour. No. 148,433; Nov. 15.

Hinrichs, George F., Inc., New York, N. Y. Dressed poultry. No. 148,434; Nov. 15.

Hobart Manufacturing Company, The, Troy, Ohio. Machines for roasting food products. No. 148,435; Nov. 15.

Hodgson Pump Company, Limited, The, Bamber Bridge, near Preston, England. Machine-pumps. No. 148,436; Nov. 15.

Hoenigsberger, A., Chicago, Ill. Pile fabrics of either silk, cotton, mohair, &c. No. 148,437; Nov. 15.

Home weaving works, Chicago, Ill. Carpets and rugs, not including felt and fur rugs and rubber mats. No. 148,438; Nov. 15.

Hood River Apple Vinegar Co., Hood River, Oreg. Vinegar. No. 148,583; Nov. 15.

Hootch Mfg. Co., Fort Wayne, Ind. Non-alcoholic, non-cereal maltless beverage. No. 148,439; Nov. 15.

Hoover & Strong, Inc., Buffalo, N. Y. Mercury used in dentistry. No. 148,440; Nov. 15.

Hoyt, F. M., Shoe Company, Manchester, N. H. Leather boots and shoes. No. 148,441; Nov. 15.

Hubbuck, Thos., & Son Limited, London, England. Fullers' earth, fossil earth, and crude tar. No. 148,442; Nov. 15.

Hurty-Peck & Company, Indianapolis, Ind. Non-alcoholic maltless beverage. No. 148,584; Nov. 15.

India Tire and Rubber Company, The, Akron and Mogadore, Ohio. Pneumatic vehicle-tires composed of rubber or fabric and rubber and inner tubes. No. 148,445; Nov. 15.

Independent Breweries Company, The, St. Louis, Mo. Cereal malt beverage. No. 148,443; Nov. 15.

Inderrieden Canning Co., Chicago, Ill. Canned vegetables. No. 148,585; Nov. 15.

Industrial Paint Company, Leetsdale and Fair Oaks, Pa. Dry, paste, and ready-mixed paints. Nos. 148,446–7; Nov. 15.

International Bedding Co. Inc., Baltimore, Md. Mattresses, pillows, and box-springs. Nos. 148,448–9; Nov. 15.

International Company, The, Baltimore, Md. Pamphlets and booklets published periodically. No. 148,450; Nov. 15.

Jackson Brewing Company, New Orleans, La. Non-alcoholic, cereal beverages containing malt sold as soft drinks. No. 148,451; Nov. 15.

Jacob Miller Sons & Co., Philadelphia, Pa. Mixture of silk and jersey in the piece. No. 148,480; Nov. 15.

Jaquine, Edward A., Los Angeles, Calif. Automobile-tires constructed of rubber and fabric. No. 148,452; Nov. 15.

Jenkins, Clarence E., Keene, N. H. Clay and potato mashers. No. 148,453; Nov. 15.

Johnson, Clarence B., Minneapolis, Minn. Photographs. No. 148,454; Nov. 15.

Kane, M., & Co., Philadelphia, Pa. General tonic. No. 148,455; Nov. 15.

Katzenbach & Bullock Co., New York, N. Y. Certain named oils and waxes, &c. No. 148,456; Nov. 15.

Kayser & Co., New York, N. Y. Silk piece goods. No. 148,457; Nov. 15.

Kennedy Valve Mfg. Co., The, Elmira, N. Y. Fire-hydrants, indicator-posts, certain-valves, &c. No. 148,458; Nov. 15.

Keystone Albumin & Paint Company, Philadelphia, Pa. Ready-mixed and paste paints, enamel paints, and flat wall-finishers. No. 148,586; Nov. 15.

Keystone Albumin & Paint Company, Philadelphia, Pa. Preparation for use in tanning of hides and leather. No. 148,587; Nov. 15.

Kirk, James S., & Company, Chicago, Ill. Toilet soap. No. 148,588; Nov. 15.

Kirschbaum Corporation, The, Baltimore, Md. Certain articles of clothing. No. 148,459; Nov. 15.

Kohn, Leinhardt & Simon, Inc., New York, N. Y. Dresses. No. 148,460; Nov. 15.

Kops Bros., New York, N. Y. Corsets, brassières, corset-covers, and waists. No. 148,462; Nov. 15.

Kovacs, Koloman, Duquesne, Pa. Insecticide powders, liquids, and disinfectants. No. 148,461; Nov. 15.

Kummer, Ed., Limited, Bettlach, Switzerland, and New York, N. Y. Watches, watchcases, watch dials and movements. No. 148,463; Nov. 15.

La Meda Manufacturing Company, Chicago, Ill. Cold-creamed powders. No. 148,589; Nov. 15.

Lamson Oil Co. Inc., Providence, R. I. Gasolene. No. 148,590; Nov. 15.

Liberty Manufacturing Company, Baltimore, Md. Articles of clothing. No. 148,464; Nov. 15.

Locke, H. E., & Company, Inc., Boston, Mass. Thread and yarn. No. 148,591; Nov. 15.

Locke Shoe Company, Wheeling, W. Va. Infants' and children's shoes, slippers, and moccasins. No. 148,465; Nov. 15.

Loony Creek Coal Company, Peevee, Ky., and Detroit, Mich. Coal. Nos. 148,466–7; Nov. 15.

Lord & Taylor, New York, N. Y. Men's dress-shirts. No. 148,468; Nov. 15.

Lyon & Greenleaf Co., Ligonier, Ind. Wheat-flour. No. 148,592; Nov. 15.

Magic Auto Devices Company, Inc., Lynbrook, N. Y. Vulcanizing-patches. No. 148,472; Nov. 15.

Magnesium Products Co. Inc., New York, N. Y. Soap paste. No. 148,473; Nov. 15.

Malt-Diastase Company, New York, N. Y. Non-alcoholic malt extracts. No. 148,474; Nov. 15.

Manes & Oppenheimer, Inc., New York, N. Y. Clothing. No. 148,475; Nov. 15.

May, Clarence, Chicago, Ill. Candy. No. 145,476; Nov. 15.

McCormick & Co., Baltimore, Md. Insect-powders. No. 148,469; Nov. 15.

McDonald, J. G., Chocolate Co., Salt Lake City, Utah. Candies and chocolates. No. 148,470; Nov. 15.

McLean Tire & Rubber Company, The, Cleveland, Ohio. Rubber and rubberised fabric tires, casings, inner tubes, tire-patches. No. 148,471; Nov. 15.

Meighan, Frank A., Grand Rapids, Mich. Soaps. No. 148,477; Nov. 15.

Meyers, W. F., Company, Bedford, Ind. Teeth for stone-saws. No. 148,593; Nov. 15.

Michelson, Julius, Boston, Mass. Tools for metal-working machinery, &c. No. 148,479; Nov. 15.

Michelsohn, Israel, New York, N. Y. Men's socks. No. 148,478; Nov. 15.

Miller, Jacob, Sons & Co., Philadelphia, Pa. Piece goods of cotton, silk, linen mixtures of cotton and silk, and of silk and linen. No. 148,594; Nov. 15.

Mitchell-Bissell Company, New York, N. Y. Guides and tips for fishing-rods. No. 148,481; Nov. 15.

Monarch Engineering Company, The, Dayton, Ohio. Electrical apparatus. No. 148,482; Nov. 15.

Mercy Flux & Chemical Company, Inc., Parkersburg, Pa. Welding and brazing rods of certain metals and metallic electric welding-rods. No. 148,595; Nov. 15.

Morris, Samuel H., New York, N. Y. Malt extracts for food purposes. No. 148,483; Nov. 15.

Moss, Edgar A., Marion, Ind. For use on newspaper-columns. No. 148,484; Nov. 15.

Moustwin Company, New York, N. Y. Snap-fasteners. No. 148,485; Nov. 15.

Murphy, G. W. J., Company, Amesbury, Mass. Curtain-fasteners and parts thereof. Nos. 148,486–7; Nov. 15.

Mushmar, Jos., & Co., Inc., New York, N. Y. Sole-leather. No. 148,488; Nov. 15.

Mutual Trading Company, New York, N. Y. Phonographs, talking-machines, and records. No. 148,489; Nov. 15.

Neal, Dr. B. E., Medicine Company, San Francisco, Calif. General tonic in tablet or pill form. No. 148,490; Nov. 15.

New England Newspaper Publishing Company, Boston, Mass. Daily newspaper. No. 148,491; Nov. 15.

New York Merchandise Company, New York, N. Y. Hair-nets. Nos. 148,492–3; Nov. 15.

New York Merchandise Company, New York, N. Y. Snap-fasteners. No. 148,494; Nov. 15.

Nieman, Eva, Cincinnati, Ohio. Printed books and pamphlets in series. No. 148,496; Nov. 15.

No-Kuff Co., Russellville, Ark. Negligee and outing shirt cuffs. No. 148,495; Nov. 15.

N. V. Internationale Mineralen Compagnie, Rotterdam, Netherlands. Construction material. No. 148,497; Nov. 15.

Osterich & Berry Co., Chicago, Ill. Cane-molasses for stock-feeding purposes. No. 148,498; Nov. 15.

O'Shea, Daniel J., Le Roy, N. Y. Cereal substitute for coffee and coffee and this substitute blended together. No. 148,499; Nov. 15.

Ottens, Henry H., Mfg. Co., Inc., Philadelphia, Pa. Powders for confectioner's use, pie-fillings, &c. No. 148,500; Nov. 15.

Pacific Coast Rubber & Supply Co., San Francisco, Calif. Composition sheet-packing. No. 148,501; Nov. 15.

Pacific Drug Review, Portland, Oreg. Printed magazine issued monthly. No. 148,502; Nov. 15.

Packard Piano Company, The, Fort Wayne, Ind. Upright, grand, player, and reproducing pianos. No. 148,503; Nov. 15.

Pansy Waist Co., New York, N. Y. Dresses and costumes. No. 148,504; Nov. 15.

Parke, Davis & Company, Detroit, Mich. Buttermilk tablets for medicinal use. No. 148,596; Nov. 15.

Patek Brothers, Milwaukee, Wis. Paints, colors, and boilhoes. No. 148,505; Nov. 15.

Pfeifer, Frank, and Bernard E. Pfeifer, Fargo, N. D. Retort for producing gas, tar, and creosote from straw and other vegetable materials. No. 148,506; Nov. 15.

Phool & Schaller, New York, N. Y. Finger-rings and other articles of jewelry of precious metal. No. 148,507; Nov. 15.

Pirika Chocolate Co. Inc., The, Brooklyn, N. Y. Candy. No. 148,508; Nov. 15.

Pittsburgh Plate Glass Company, Rennoue-Kletzsle Division, Baltimore, Md. Brushes. Nos. 148,597–8; Nov. 15.

Pluckrose, John, London, England. Copying and duplicating apparatus. No. 148,509; Nov. 15.

Pongo-Wall Milling Company, The, Catlettsburg, Ky. Wheat-flour. No. 148,510; Nov. 15.

Pocahontas Candy Co., Washington, D. C. Candies. No. 148,511; Nov. 15.

Polygon Ink Company, London, England. Writing-ink and ink for typewriter carbons, and ribbons and carbon-papers for typewriters. No. 148,512; Nov. 15.

Potter & Buffington Co., Providence, R. I. Charms for personal wear which are made of or plated with precious metal. No. 148,513; Nov. 15.

Prasmafix Corporation of America, New York, N. Y. Embossing-machines and cutting and punching dies No. 148,514; Nov. 15.

Pure Food Factory, "Hansa" Mamaroneck, N. Y. Bouillon cubes, vegetable and beef extracts, and mayonnaise salad-dressing, &c. No. 148,515; Nov. 15.

Puritan Ice Cream Co., Newark, N. J. Ice-cream. No. 148,516; Nov. 15.

Quinn, George J., & Company, Inc., New York, N. Y. Various lines of piece goods. No. 148,517; Nov. 15.

Radium Oil Company, Cincinnati, Ohio. Lubricating oils. No. 148,518; Nov. 15.

Ramspring Bumper Co., Chicago, Ill. Automobile-bumpers. No. 148,519; Nov. 15.

Reid Bros., Seattle, Wash., and San Francisco, Calif. Hotwater bottles, icebags, invalid cushions, back-rests, &c. No. 148,520; Nov. 15.

Remar Company, The, Oakland, Calif. Ice-cream. No. 148,521; Nov. 15.

Removo Company, The, Syracuse, N. Y. Gray-hair restorer in the nature of a coloring. No. 148,522; Nov. 15.

Rice's, Bernard, Sons, New York, N. Y. Sterling and plated flat and hollow silverware and articles of jewelry. No. 148,523; Nov. 15.

Rikkers Bros. Inc., New York, N. Y. Scissors. No. 148,524; Nov. 15.

Rogers, Simeon L. & George H., Company, Hartford, Conn. Silver-plated flat and hollow ware. No. 148,599; Nov. 15.

Rosenberg Bros. & Co., Rochester, N. Y. Men's coats, vests, pants, and overcoats. No. 148,525; Nov. 15.

Rosenberg, Harry, New York, N. Y. Raincoats. No. 148,526; Nov. 15.

Rosenthal & Targoff, Inc., New York, N. Y. Dresses, cloaks, and suits. No. 148,527; Nov. 15.

Ryan, Allan C., Elyria, Ohio. Acid-proof non-ferrous metals for bearings. No. 148,528; Nov. 15.

Sals Brothers, New York, N. Y. Stylographic pens. No. 148,530; Nov. 15.

Saltzman, Harry, New York, N. Y. Negligée, dress, and work shirts. No. 148,529; Nov. 15.

Saveall Dentifrice Company, Chicago, Ill. Dentifrice. No. 148,531; Nov. 15.

Schreiber, Rudolph, Inc., New York, N. Y. Woolen cloth in the piece. No. 148,600; Nov. 15.

Schreiber, Rudolph, Inc., New York, N. Y. Worsted cloths in the piece. No. 148,601; Nov. 15.

Schreiber, Rudolph, Inc., New York, N. Y. Woolen cloth in the piece. No. 148,602; Nov. 15.

Seacoast Canning Co., Eastport, Me. Canned sardines. No. 148,532; Nov. 15.

Sly, Paul P., Santa Monica, Calif. Soap and soap tablets for laundry and toilet use. No. 148,604; Nov. 15.

Smith, M. E., & Co. Inc., Omaha and Farnam, Nebr. Washable cotton dress materials in the piece. No. 148,533; Nov. 15.

Smooth-On Manufacturing Company, Jersey City, N. J. Substances chiefly composed of comminuted iron in powder and plastic form for cementing, &c. No. 148,534; Nov. 15.

Société Lyonnaise d'Industrie Mecaniques, Lyon-St. Clafre-Caluire, France. Tractors. No. 148,535; Nov. 15.

Sonneborn Brothers, New York, N. Y. Suits for young men and boys. No. 148,536; Nov. 15.

Southern Produce Company, Norfolk, Va. Vegetables. No. 148,537; Nov. 15.

St. Louis Insecticide and Specialty Co., St. Louis, Mo. Insecticides. Nos. 148,540–1; Nov. 15.

Standard Overall Company, Baltimore, Md. Overalls and work-shirts. No. 148,538; Nov. 15.

State of New York, Saratoga Springs, N. Y. Natural mineral water. No. 148,539; Nov. 15.

Stom-A-Lax Medicine Co., Sanford, Fla. Remedy for stomach disorders. No. 148,542; Nov. 15.

Strevell-Paterson Hardware Co., Salt Lake City, Utah. Toy sleds, fishing-tackle and toy coaster-wagons. No. 148,605; Nov. 15.

Strub, Oswald B., St. Louis, Mo. Medicinal preparation for headache, neuralgia, &c. No. 148,543; Nov. 15.

Taylor, Clapp & Beall, New York, N. Y. Cotton sheeting in the piece. No. 148,544; Nov. 15.

Tip Top Bluing Works, Detroit, Mich. Laundry bluing. No. 148,545; Nov. 15.

Titmus Optical Co. Inc., Petersburg, Va. Optical lenses. No. 148,546; Nov. 15.

Tru-Blu Biscuit Co., Spokane, Wash. Candy. No. 148,547; Nov. 15.

Trumbower, Henry C., Philadelphia, Pa. Medicinal powder. No. 148,548; Nov. 15.

Turbine Air Tool Company, The, Cleveland, Ohio. Planers. No. 148,606; Nov. 15.

Tyler, W. S., Company, The, Cleveland, Ohio. Woven-wire screen-cloth. No. 148,549; Nov. 15.

Underwood Typewriter Co., New York, N. Y. Typewriting-machines and parts. No. 148,550; Nov. 15.

United Alkali Company, Limited, The, Liverpool, England. Bleaching-powder, soda-ash, soda crystals, and bicarbonates. No. 20,027; Nov. 15; renewed Aug. 11, 1921.

United Auto Stores, Inc., Philadelphia, Chester, Reading, Pottsville, and Allentown, Pa., and Atlantic City, N. J. Automobile accessories—namely, auto tubes of rubber (black and gray). No. 148,551; Nov. 15.

United Drug and Candy Mfg. Co., The. (See Gardos, Armand A., assignor.)

United Drug Company, Boston, Mass. Pus-pan, bedpan, regular bedpan, &c. No. 148,552; Nov. 15.

Unkefer Varnish Company, Chicago, Ill. Paint enamels, paste and ready-mixed paints, &c. No. 148,555; Nov. 15.

United States Playing Card Company, The, Cincinnati, Ohio. Playing-cards. Nos. 148,607–24; Nov. 15.

United Turkey Red Company, Limited, Glasgow, Scotland. Clothing. No. 148,553; Nov. 15.

United Turkey Red Company, Limited, The, Glasgow, Scotland. Cotton piece goods. No. 148,554; Nov. 15.

Wadsworth-Howland Company, Chicago, Ill. Paint enamel for decorative purposes. No. 148,556; Nov. 15.

Western Cartridge Company, East Alton and Springfield, Ill. Impregnated or coated woven fabrics. No. 148,557; Nov. 15.

Western Wire Products Co., St. Louis, Mo. Bed-springs or spring-mattresses for beds. No. 148,625; Nov. 15.

Wetzsteinn, M., Sons, New York, N. Y. Cured and smoked tongues. No. 148,626; Nov. 15.

Willenborg, Carl J., Jr., Hoboken, N. J. Talking-machines and parts thereof. No. 148,558; Nov. 15.

Wolff, Geo., & Co., San Francisco, Calif. Olive-oil. No. 148,559; Nov. 15.

Wolfinger Knitting Mills, Reading, Pa. Hosiery for men, women, and children. No. 148,560; Nov. 15.

Woolsey, C. A., Paint & Color Company, Jersey City, N. J. Paints and colors; paint-pigments, and varnishes. Nos. 148,627–8; Nov. 15.

Wyman, Partridge & Co., Minneapolis, Minn. Cotton piece goods. No. 148,561; Nov. 15.

Youngstown Sheet & Tube Company, The, Youngstown, Ohio. Iron and steel pipe and pipe-couplings. No. 148,629; Nov. 15.

Zeitel & Zockerbraun, New York, N. Y. Hosiery. No. 148,563; Nov. 15.

Ziegler, J. S., Company, (now by change of name Dwight B. McCurdy Company,) Chicago, Ill. Egg substitute in cooking and baking. No. 148,562; Nov. 15.

Zobel, Myron, Los Angeles, Calif. The title of a magazine published and sold monthly. No. 148,564; Nov. 15.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Alling and Cory Company, The, Pittsburgh, Pa. Ledger-papers. No. 147,180; Nov. 15.
American Drug and Chemical Co., Gettysburg, Pa. Toy chemical sets. No. 152,404; Nov. 15.
American Enamel Company, Providence, R. I. Enamel in the nature of a paint for wood and metal. Nos. 121,230–1; Nov. 15.
American Seating Company, Chicago, Ill. Specially-compounded furniture-finish. No. 152,529; Nov. 15.
American Writing Paper Company, Holyoke, Mass. Writing and printing papers and mailing-envelops. No. 153,223; Nov. 15.
American Writing Paper Company, Holyoke, Mass. Writing and printing papers. No. 153,224; Nov. 15.
American Writing Paper Company, Holyoke, Mass. Cover-paper. No. 153,225; Nov. 15.
Arneth Company, The, Washington, D. C. Ointment for rheumatism, after shaving, corns, &c. No. 146,783; Nov. 15.
Ash, Claudius, Sons & Company Limited, London, England. Dental apparatus and supplies. No. 147,498; Nov. 15.
Bader, Louise, Passaic, N. J. Cold, &c., creams, face and hand lotions, cuticle-removers. No. 149,314; Nov. 15.
Bauer & Black, Chicago, Ill. Talcum powder. No. 151,747; Nov. 15.
Bishop, J. H., Baltimore, Md. Hair-pomade. No. 152,980; Nov. 15.
Blake & Stearns, Boston, Mass. Woolens and worsteds in the piece. No. 152,458; Nov. 15.
Borgfeldt, George, & Co., New York, N. Y. Dolls. Nos. 153,063–4; Nov. 15.
Bradley, C. C., & Son, Syracuse, N. Y. Power hammers and forges. No. 146,623; Nov. 15.
Bradley Pulverizer Co., Boston, Mass. Grinding and pulverizing mills. No. 146,365; Nov. 15.
Brooks, Stephen H., Cleveland, Ohio. Fire-extinguishing liquid. No. 151,697; Nov. 15.
Button & Sierad, New York, N. Y. Containers for perfumes. No. 151,251; Nov. 15.
Buxton, Incorporated, Springfield, Mass. Key-cases. No. 151,597; Nov. 15.
Carrib Mfg. Corporation, Rochester, N. Y. Carbon-paper and typewriter-ribbons. No. 147,277; Nov. 15.
Cartier, Inc., New York, N. Y. Cigarette and cigar cases and snuff-boxes. No. 144,965; Nov. 15.
Cauffman, Leo, Rochester, N. Y. Cough-syrup. No. 151,766; Nov. 15.
Cayuga Linen & Cotton Mills, Inc., Auburn, N. Y. Twine. Nos. 153,126–7; Nov. 15.
Central Paper Company, Menasha, Wis. Adding-machine paper. No. 151,203; Nov. 15.
Channel Commercial Co., Los Angeles, Calif. Canned goods, candies, jams, nuts, &c. No. 147,407; Nov. 15.
Chemical Paper Manufacturing Company, Holyoke, Mass. Writing-papers. No. 151,658; Nov. 15.
Chemical Paper Manufacturing Company, Holyoke, Mass. Writing-papers. No. 151,706; Nov. 15.
Chemical Paper Manufacturing Co., Holyoke, Mass. Manifold light-weight onion-skin paper. No. 152,314; Nov. 15.
Colby Steel and Engineering Co., Seattle, Wash. Cranes. No. 142,774; Nov. 15.
Columbia Carbon Company, The, Dayton, Ohio. Inked ribbons and carbon-sheets for duplicating or transferring impressions. No. 144,449; Nov. 15.
Compass Oil Company, San Francisco, Calif. Petroleum and petroleum products. No. 152,515; Nov. 15.
Dainty Dame Importing Corp., New York, N. Y. Perfumes. No. 151,756; Nov. 15.
Defender Photo Supply Company, Inc., Rochester, N. Y. Sensitized photographic paper. No. 149,272; Nov. 15.
Dellape, Andrea, Altoona, Pa. Medicine for Spanish flu. No. 146,377; Nov. 15.
Devoise Candy Company, Baltimore, Md. Chocolate syrup and other maltless syrups. No. 152,240; Nov. 15.
Dexter Folder Company, New York, N. Y. Paper handling, and cutting machines, bundling-machines, &c. No. 149,201; Nov. 15.
Diamond Match Company, The, Chicago, Ill. Matches. No. 151,911; Nov. 15.
Dilley, Thomas E., Fort Wayne, Ind. Preparation used in washing the hair. No. 152,324; Nov. 15.
Duplex Envelope Company, The, Quincy, Ill. Mailing and correspondence envelops. No. 147,955; Nov. 15.
Easterday, Chester H., Logansport, Ind. Embalming fluid. No. 152,674; Nov. 15.
Electrostrop Manufacturing Company, Inc., Philadelphia, Pa. Razor stropping and honing machines, razor-blade holders, &c. No. 144,900; Nov. 15.
Equinox Mountain Spring, Inc., New York, N. Y. Maple syrup, sugar, and cream, maple-sugar candy. No. 145,619; Nov. 15.

Escofet, Rafael, Tarragona, Spain. Unfermented grape-juice and juice of other fruits. No. 149,076; Nov. 15.
Faupel, William, London, England. Medicine used against cancer, stomach and liver troubles, and as a blood-purifier. No. 150,805; Nov. 15.
Fiala Arms Company, New York, N. Y. Pistols, rifles, and combination pistols and rifles. No. 143,434; Nov. 15.
Fischer, Rose, New York, N. Y. Lip and face creams. No. 151,533; Nov. 15.
Flynn, John H., Jr., Cincinnati, Ohio. Tackle-blocks. No. 152,433; Nov. 15.
Foreign Manufacturers Sales Corporation, New York, N. Y. Pistols. No. 145,362; Nov. 15.
Fraass, August E., New York, N. Y. Accumesters, odometers, air-bags for treatment of the ears, &c. No. 144,072; Nov. 15.
Franklin, Richard, New York, N. Y. Clinical thermometers. No. 144,805; Nov. 15.
Fuller Brush Company, The, Hartford, Conn. Mops, brushes, brooms, cotton daubers, dusters. No. 141,961; Nov. 15.
Geo. H. Jung Co., The, Cincinnati, Ohio. Arch-braces. No. 145,469; Nov. 15.
Glemby, S., Inc., New York, N. Y. Hair-nets. No. 129,977; Nov. 15.
Goheen Corporation, The, Wilmington, Del., and Warren, Ohio. Paint for structural steel. No. 139,537; Nov. 15.
Gordon, Samuel, New York, N. Y. Pipes, cigar and cigarette holders and cases, &c. No. 146,662; Nov. 15.
Graham Paper Company, St. Louis, Mo. Tissue toilet-paper. No. 149,698; Nov. 15.
Grammes, L. F., & Sons, Allentown, Pa. Nail-pullers. No. 147,873; Nov. 15.
Great Western Smelting & Refining Company, Chicago, Ill. Babbitt metal, solder, brass, aluminum, &c. No. 149,251; Nov. 15.
Guhl & Harbeck, Hamburg, Germany. Sewing-machines. No. 144,716; Nov. 15.
Hammel, Riglander & Co., New York, N. Y. Small metallic washers placed under clock and watch dials. No. 148,655; Nov. 15.
Hassinger, Enon, Barcelona, Spain. Rubber erasers. No. 124,405; Nov. 15.
Heck, Adolph M., Los Angeles, Calif. Inked ribbons and carbon-sheets. No. 150,271; Nov. 15.
Henry Glass & Co., New York, N. Y. Cotton voiles in the piece. No. 137,811; Nov. 15.
Herzig, Siegfried M., Los Angeles, Calif. Motion-picture films. No. 150,272; Nov. 15.
Hicks-Fuller Company, Sioux City, Iowa. Cotton blankets and flannel piece goods. No. 151,143; Nov. 15.
Home Products Inc., Rahway, N. J. Chemical disinfectant, insecticide, and fungicide. No. 152,540; Nov. 15.
Hormel, Geo. A., & Co., Austin, Minn. Bacon, sausage, pigs' feet, &c. No. 146,837; Nov. 15.
Hurwitz, Jeanne B., Berlin, Germany. Duplicating-machines and attachments therefor. No. 137,615; Nov. 15.
I. C. Manufacturing Company, Chicago, Ill. Grease and oil guns and connections therefor. No. 147,040; Nov. 15.
Indianapolis Cordage Company, Indianapolis, Ind. Binder-twine. No. 153,290; Nov. 15.
Industrial Paper Company, Baltimore, Md. Toilet and wrapping paper. No. 150,012; Nov. 15.
Inland Co., The, Providence, R. I. Cigarette-cases. No. 144,997; Nov. 15.
Irwin, Murry, Cleveland, Ohio. Household and general office inventory record-blank. No. 146,970; Nov. 15.
Isaacs, Sigmund, New York, N. Y., and Yokohama, Japan. Safety-razors and safety-razor blades. No. 148,900; Nov. 15.
Jones, Harry M., Chicago, Ill. Diagnostic instruments for measuring the rate of oxygen consumption. No. 140,897; Nov. 15.
Kaufman-Straus Co., Louisville, Ky. Tooth, nail, hand, and bath brushes. No. 149,687; Nov. 15.
Klepp & Bartlett Company, Omaha, Nebr. Blank and record books, legal forms and blanks, &c. No. 150,259; Nov. 15.
Kronyte Manufacturing Corporation, Rochester, N. Y. Fiber cops and quills. No. 152,895; Nov. 15.
Langensen, David, New York, N. Y. Gauze and cheese-cloth for surgical purposes. No. 147,254; Nov. 15.
Lederer, Herbert B., Co., Inc., New York, N. Y. Ginghams in the piece. No. 152,472; Nov. 15.
Los Angeles Soap Co., Los Angeles, Calif. Toilet soap. No. 152,294; Nov. 15.
Magneto Attachment Co. Inc., New York, N. Y. Attachments for fitting magnetos to internal-combustion engines and magneto drive-couplings therefor. No. 148,340; Nov. 15.

Manion, James P., Fort William, Ontario, Canada. Medical preparation for colds, flu, and la grippe. No. 143,285; Nov. 15.
Marcus & Smith, New York, N. Y. Powder-puffs. No. 149,512; Nov. 15.
Marshall Field & Company, Chicago, Ill. Muslin piece goods. No. 140,305; Nov. 15.
Marshall-Wells Company, Duluth, Minn. Children's express and coaster wagons. No. 135,725; Nov. 15.
Matalone, G., Chicago, Ill. Macaroni, spaghetti, alimentary paste. No. 145,076; Nov. 15.
McDougall-Butler Co., Inc., Buffalo, N. Y. Varnish. No. 152,852; Nov. 15.
Measuregraph Company, The, St. Louis, Mo. Signals and trip mechanisms for arresting operations of a machine. No. 144,144; Nov. 15.
Medicinal Products Corporation, Holyoke, Mass. Indigestion-powder and shampoo preparation. No. 151,589; Nov. 15.
Metropolitan-Vickers Electrical Co. Ltd., London, England. Steam turbines and condensers, pumps of all kinds, blowers, &c. No. 141,726; Nov. 15.
Mitroe Export & Import Co., Inc., New York, N. Y. Projection-screens for moving pictures. No. 150,322; Nov. 15.
Moore, Benjamin, & Co., Jersey City, N. J., and Brooklyn, N. Y. Varnish. No. 153,307; Nov. 15.
Morrison, William N., Los Angeles, Calif. Key-ring hooks. No. 133,098; Nov. 15.
Mueller Metals Company, Port Huron, Mich. Metal (commercial) rod. Nos. 142,262–3; Nov. 15.
National Paper Products Company, San Francisco, Calif. Dispensing-cabinets for providing paper towels, corrugated-paper boxes, &c. No. 128,557; Nov. 15.
Neuss, Hesslein & Co. Inc., New York, N. Y. Woven cotton piece goods. No. 152,438; Nov. 15.
New Britain Tool and Manufacturing Company, The, New Britain, Conn. Milling-cutters, reamers, arbors, &c. No. 147,118; Nov. 15.
Nickelsburg, Arthur, Limited, London, England. Vacuum-flasks. No. 153,100; Nov. 15.
O'Brien Varnish Company, South Bend, Ind. Ready-mixed paints. No. 152,578; Nov. 15.
O'Brien Varnish Company, South Bend, Ind. Automobile-enamels. No. 152,581; Nov. 15.
Osmen, Adolph C., Baltimore, Md. General tonic. No. 152,476; Nov. 15.
Osman, Leo S., Washington, D. C. Corn and bunion salve, cold and catarrh cream, &c. No. 147,678; Nov. 15.
Ost Apothecary, Inc., Atlantic City, N. J. Medicated alcohol. No. 152,279; Nov. 15.
Oxsyn Company, New York, N. Y. Hard-water color hair-tints. Nos. 152,477–8; Nov. 15.
Package Paper & Supply Corporation, Springfield, Mass. Waxed and transparent papers. Nos. 148,949–50; Nov. 15.
Panther Rubber Manufacturing Company, Stoughton, Mass. Toy rubber balls. No. 144,000; Nov. 15.
Patchett, Samuel C., Washington, D. C. Toy banks. No. 152,444; Nov. 15.
Peirce, Ralph S., Hinsdale, Ill. Expansion-bolts. No. 148,085; Nov. 15.
Pesberthy Injector Company, Detroit, Mich. Flow-meters, water and oil gages. No. 149,818; Nov. 15.
Peg Laboratory, Chicago, Ill. Non-alcoholic beverage and powder for making same. No. 148,454; Nov. 15.
Peters Cartridge Company, The, Cincinnati, Ohio, Metallic cartridges. No. 150,202; Nov. 15.
Potter, Earle F., Creston, Iowa. Detectors for indicating the condition of automobile ignition and signaling circuits. No. 147,940; Nov. 15.
Poultry Feed Company, Chicago, Ill. Pulverized poultry-manure. No. 120,495; Nov. 15.
Premier Cutlery, Inc., New York, N. Y. Table flat-ware and cutlery of base metal. Nos. 148,034–5; Nov. 15.
Radcliff, Idella E., Glendale, Calif. Compound for poultry. No. 139,370; Nov. 15.
Realite Pencil Co., Chicago, Ill. Lead-pencils. No. 149,424; Nov. 15.
Riva, Francisco G., Los Angeles, Calif. Automatic pistols. No. 143,2895; Nov. 15.
Sala, Antenor, Mexico, Mexico. Medicinal preparation for malaria. No. 152,286; Nov. 15.
San Antonio Drug Co., San Antonio, Tex. Toothbrushes, cloth, hand, hair, and shaving brushes. No. 142,420; Nov. 15.
Sanitary Dish Washing Machine Company, Milwaukee, Wis. Dish-washing machines. No. 136,814; Nov. 15.
Scardone, Charles, New Field, N. J. Fire-crackers. No. 146,243; Nov. 15.
Schmitz, Katherine, Chicago, Ill. Automobile and furniture polish. No. 152,283; Nov. 15.
Schneider, Carl, Nutley, N. J. Check and automatic valves, siphons, cocks, &c. No. 146,669; Nov. 15.
Schriver, O. P., Co., The, Cincinnati, Ohio. Fruit-presses. No. 148,245; Nov. 15.
Seaman Patrick Paper Co., Detroit, Mich. Enamel-paper. No. 149,822; Nov. 15.
Sehon, Stevenson and Company, Huntington, W. Va. Coffee. No. 118,799; Nov. 15.
Service Motor Truck Company, Wabash, Ind. Motor-trucks. No. 143,844; Nov. 15.
Sharpe, Samuel M., New York, N. Y. Dental floss. No. 146,240; Nov. 15.
Sherwin-Williams Company, The, Cleveland, Ohio. Paints. No. 152,867; Nov. 15.
Smith, C. D., Drug Company, St. Joseph, Mo. Bathing-alcohol. No. 152,595; Nov. 15.
Société des Usines Curial, Paris, France. Metal-working tools, taps, dies, reamers, &c. No. 149,152; Nov. 15.
Spinim Co., The, New York, N. Y. Rotatable dice. No. 153,115; Nov. 15.
Standard Oil Company, (Incorporated in New Jersey,) Bayonne, N. J. and New York N. Y. Nose and throat spray. No. 152,484; Nov. 15.
Standard Textile Products Company, The, Youngstown, Ohio, and New York, N. Y. Oiled cloth. No. 152,667; Nov. 15.
Stanley Works, The, New Britain, Conn. Butts, hinges, latches, &c. No. 141,083; Nov. 15.
Strauss, A., & Co., New York, N. Y. Dolls. No. 153,265; Nov. 15.
Superior Manufacturing Company, Lodi, Calif. Pumps and pumping plants. No. 136,775; Nov. 15.
Tension Envelope Company, Inc., Brooklyn, N. Y. Envelops. No. 152,691; Nov. 15.
Thorn & Company, Incorporated, Boston, Mass. Preparation used in treatment of intestinal pains and disorders. No. 152,390; Nov. 15.
Trianon Co., New York, N. Y., Ladies' handbags. No. 143,368; Nov. 15.
Tuskeloid Company, Inc., New York, N. Y. Hair, nail, tooth, hat, and cloth brushes. No. 140,689; Nov. 15.
Tuskeloid Company, Inc., The, New York, N. Y. Nail-polishers and atomizers. Nos. 140,692–3; Nov. 15.
Tuskeloid Company, Inc., New York, N. Y. Hair, nail, tooth, hat, and cloth brushes. No. 140,694; Nov. 15.
Tyler, W. S., Company, The, Cleveland, Ohio. Vibrated-screen separating-machines. No. 120,776; Nov. 15.
United States Playing Card Company, The, Cincinnati, Ohio. Playing-cards. No. 151,115; Nov. 15.
United States Playing Card Company, The, Cincinnati, Ohio. Playing-cards. No. 151,119; Nov. 15.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Golf-balls. No. 153,023; Nov. 15.
Unity Cotton Mills, La Grange, Ga. Piece goods—namely, duck, canvas, and drilling. No. 144,005; Nov. 15.
Utility Compressor Company, The, Detroit, Mich. Artificial refrigerating units and household refrigerators. No. 141,199; Nov. 15.
Valker, Chas., & Son, Chicago, Ill. Liquid malt extract. No. 152,490; Nov. 15.
Wahl, M., & Son, New York, N. Y. Hair-nets. No. 152,665; Nov. 15.
Wanamaker, John, New York, New York, N. Y. Golf-balls. No. 153,271; Nov. 15.
Watson Paint and Glass Company, Pittsburgh, Pa. Paste paints. No. 143,111; Nov. 15.
Waverly Oil Works Company, Pittsburgh, Pa. Lubricating-oils. No. 149,570; Nov. 15.
Wawbeek Spring Water Co., The, Suffield, Conn. Ginger ale and beer, birch and root beers, &c. No. 146,176; Nov. 15.
Western Cartridge Company, East Alton and Springfield, Ill. Non-fouling bullets. Nos. 148,778–9; Nov. 15.
Weston, E. J., Los Angeles and San Francisco, Calif. Malt-syrup. No. 142,372; Nov. 15.
White & Wyckoff Manufacturing Company, Holyoke, Mass. Writing-tablets. No. 149,366; Nov. 15.
Wickwire Spencer Steel Corporation, Worcester, Mass. Wire-cloth, wire-netting, wire trellis, and plant-supports, &c. No. 145,143; Nov. 15.
Wilson-Jones Loose Leaf Company, Chicago, Ill. Note and memorandum books. No. 151,898; Nov. 15.
Wilson, Thos. E., & Co., Chicago, Ill. Baseballs. No. 152,972; Nov. 15.
Windsor Broom Company, Hamburg, Pa. Brooms. No. 150,049; Nov. 15.
Wonder Builder Toy Co., The, Gallopolis, Ohio. Building elements used in the construction of toy vehicles and parts thereof. No. 138,884; Nov. 15.
Wright, Barrett & Stilwell Company, St. Paul, Minn. Writing-paper. Nos. 152,454–5; Nov. 15.
Zellerbach Paper Company, San Francisco, Calif. Wrapping-paper. No. 150,089; Nov. 15.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 15TH DAY OF NOVEMBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Acid, Refining oxalic. D. E. Kelen. No. 1,397,127; Nov. 15.
Accounting-machine with auxiliary printing appliance. A. H. Hawley. No. 1,396,932; Nov. 15.
Addressing-machines, Sheet-gage for. E. R. Jungling. No. 1,397,125; Nov. 15.
Adjustable holder. F. Karuchits. No. 1,397,254; Nov. 15.
Advertising novelty. E. S. Wilson. No. 1,397,476; Nov. 15.
Aerial apparatus. V. Pastrengo. No. 1,396,874; Nov. 15.
Aerial apparatus or flying-mechanism. E. F. Burrill. No. 1,397,400; Nov. 15.
Aeroplane. G. Ostgier. No. 1,397,292; Nov. 15.
Aeroplane. J. A. Smith. No. 1,397,062; Nov. 15.
Aeroplane. B. Zsarnay. No. 1,397,196; Nov. 15.
Aeroplane attachment. G. C. Stevens. No. 1,396,894; Nov. 15.
Air-heater, Electric. O. A. Colby. No. 1,396,813; Nov. 15.
Aircraft, Propeller for. A. Boerner. No. 1,396,917; Nov. 15.
Alarm-controlling mechanism. A. P. Hodge. No. 1,396,842; Nov. 15.
Aminoalkylesters and of alkylaminoalkylesters of para aminobenzoic acid, Production of. W. Bader. No. 1,396,913; Nov. 15.
Ammonium chlorid, Producing. O. L. Christenson and K. I. M. Gisiko. No. 1,397,264; Nov. 15.
Amusement apparatus. H. F. Maynes. No. 1,397,009; Nov. 15.
Amusement device. J. G. Malouf. No. 1,397,135; Nov. 15.
Animal-trap. T. S. Catlin. No. 1,396,810; Nov. 15.
Animal-trap. K. Melnick. No. 1,397,440; Nov. 15.
Ankle-supporter. H. B. Hamilton. No. 1,397,095; Nov. 15.
Archer's bow. A. E. Shepherdson. No. 1,396,788; Nov. 15.
Automobile-brake adjuster. G. A. Gemmer. No. 1,397,373; Nov. 15.
Automobile-bumper. F. Towasek. No. 1,396,944; Nov. 15.
Automobile dust-cap. S. R. Sabel. No. 1,397,235; Nov. 15.
Automobile-engine fuel-supply. J. Good. No. 1,397,492; Nov. 15.
Automobile number-plate. R. R. Melton. No. 1,397,136; Nov. 15.
Automobile-signal. G. W. Jarvis. No. 1,397,424; Nov. 15.
Automobile-signal. W. E. Squier. No. 1,397,463; Nov. 15.
Automobile turning-signal. E. H. Hebern. No. 1,397,211; Nov. 15.
Automobiles, Foldable child's-seat for. T. A. Haas. No. 1,397,281; Nov. 15.
Automobiles, Folding top for. G. E. Madison. No. 1,396,968; Nov. 15.
Automobiles, Foot-board holder for. J. P. Leonard. No. 1,396,850; Nov. 15.
Automobiles, Safety device for. W. P. Dwyer. No. 1,397,043; Nov. 15.
Automobiles, Steering attachment for. E. J. Balmos. No. 1,396,722; Nov. 15.
Automobiles, System of locking. T. J. Coo. No. 1,397,484; Nov. 15.
Auxiliary seat. W. J. Diehl. No. 1,397,089; Nov. 15.
Axle-lubricator. T. G. Bass. No. 1,397,352; Nov. 15.
Axle, Motor-vehicle. A. Muenk. No. 1,396,809; Nov. 15.
Bag-cleaner. J. C. Fulkerson and L. B. Stuart. No. 1,397,417; Nov. 15.
Bag-lock. B. J. Richardson and C. S. Barber. No. 1,397,455; Nov. 15.
Battery and manufacture, Dry. O. E. Ruboff. No. 1,397,183; Nov. 15.
Bearing, Roller-. O. E. Michaud. No. 1,397,226; Nov. 15.
Bearing, Roller-. N. A. Palmgren. No. 1,397,142; Nov. 15.
Bearing, Roller-. W. L. Scribner. No. 1,397,297; Nov. 15.
Bearing, Self-oiling. H. J. Smith. No. 1,397,115; Nov. 15.
Bearing, Thrust-. C. G. Roberton. No. 1,396,880; Nov. 15.
Bed, Invalid-. T. Dodds. No. 1,397,041; Nov. 15.
Bedstead, Metal. C. H. Busch. No. 1,397,203; Nov. 15.
Belt, Power-transmission. E. L. Burrell. No. 1,396,925; Nov. 15.
Binding media on roads, Apparatus for spraying. S. E. Finley. No. 1,397,045; Nov. 15.
Bleaching and apparatus therefor, Method of. C. Taylor. No. 1,396,792; Nov. 15.
Block: *See*—
Building-block. Engraving-block.
Blocks into smaller sizes, Machine for cutting. A. E. Alchin. No. 1,397,198; Nov. 15.
Boat, Speed-. E. Gardner. No. 1,396,831; Nov. 15.
Boiler. A. M. Mertzanoff. No. 1,397,010; Nov. 15.
Boll-weevil destroyer, Pink-. J. M. Webb. No. 1,396,797; Nov. 15.
Book-frame and label-holder. G. A. Annable. No. 1,396,910; Nov. 15.
Bottle-capping machine. H. E. Asbury. No. 1,397,394; Nov. 15.
Bottle receptacle, Milk-. W. Kashur. No. 1,397,427; Nov. 15.
Box: *See*—
Electric-cut-out box. Refrigerating-box.
Box-blank machines, Feed mechanism for wire-bound-. H. G. Mead. No. 1,397,439; Nov. 15.
Box-nailing machine. A. N. Biggs. No. 1,397,054; Nov. 15.
Bracket: *See*—
Shade-bracket.
Bracket. A. Mayer. No. 1,397,105; Nov. 15.
Brake: *See*—
Car-brake. Railway-brake.
Power-brake. Wheel-brake.
Brake. S. Lankbeet. No. 1,397,430; Nov. 15.
Brake. W. G. Wall. No. 1,396,796; Nov. 15.
Brake equaliser, Four-wheel-. A. Lucand. No. 1,396,965; Nov. 15.
Brake-hanger. F. M. Whyte. No. 1,396,945; Nov. 15.
Breakwater or bulkhead, Portable floating. M. A. White. No. 1,397,025; Nov. 15.
Breech-loading guns, Mechanism for non-recoil. B. T. Hamilton. No. 1,397,418; Nov. 15.
Brick-cleaning machine. E. L. Minor. No. 1,397,227; Nov. 15.
Brush. H. A. Poppenhusen and R. T. R. Hastings. No. 1,396,973; Nov. 15.
Brush, Commutator. F. L. Cooley. No. 1,396,948; Nov. 15.
Brushes, Drip-cup attachment for. C. L. McDaniel. No. 1,396,967; Nov. 15.
Buffers to vehicles, Clamp for attaching. T. A. Hoover. No. 1,397,213; Nov. 15.
Buffing or polishing wheel. A. Levett. (Reissue.) No. 15,226; Nov. 15.
Building-block. T. Colosimo. No. 1,397,035; Nov. 15.
Bumper. E. T. Mathewson. Nos. 1,397,223–4; Nov. 15.
Bumper, Automobile-. W. G. Cox. No. 1,397,315; Nov. 15.
Bumpers, Reinforcing-plate for automobile-. H. Bernstein. No. 1,397,354; Nov. 15.
Burner: *See*—
Gas-burner. Liquid-fuel burner.
Button-fastener. N. Gurewitsch. No. 1,397,376; Nov. 15.
Cable-reeling apparatus. G. F. Atwood. No. 1,396,721; Nov. 15.
Cable-splice. J. F. Dillon. No. 1,397,040; Nov. 15.
Calculating-machine. E. C. Schinke and N. A. Sutherland. No. 1,396,886; Nov. 15.
Calculating-machine. J. C. Wahl. No. 1,397,188; Nov. 15.
Calendar-pad and mount therefor. W. Y. Dear. No. 1,396,814; Nov. 15.
Camera, Photographic. A. H. Long. No. 1,397,132; Nov. 15.
Can: *See*—
Garbage-can.
Can-drainer. A. R. Thompson. No. 1,397,153; Nov. 15.
Can-opener. J. M. Butcher. No. 1,396,991; Nov. 15.
Can-opener. E. E. Kepner. No. 1,397,217; Nov. 15.
Canning fruits and vegetables, Jar and apparatus for cold-pack. J. F. Burns. No. 1,396,723; Nov. 15.
Cap. J. Yanow. No. 1,396,985; Nov. 15.
Car-body. F. M. Cowgill. No. 1,397,081; Nov. 15.
Car-brake. G. L. Scott. No. 1,397,059; Nov. 15.
Car-door hanger, Box-. C. H. Endicott. No. 1,397,410; Nov. 15.
Car-doors, Tram-line system for. G. E. Oakley. No. 1,396,775; Nov. 15.
Cars and other motor and railway vehicles, Body for motor-. E. W. Edwards. No. 1,396,787; Nov. 15.
Cars, Grain-door for box-. W. Gelineau. No. 1,397,279; Nov. 15.
Cars, Locking mechanism for dump-. A. M. Gow. No. 1,397,165; Nov. 15.
Carbonising apparatus. F. W. Young. No. 1,397,029; Nov. 15.
Card holder, Show-. O. R. Sielaff. No. 1,396,892; Nov. 15.
Card-punching device. A. Knistrom. No. 1,397,007; Nov. 15.

Carpet-cleaning machine. J. F. Stallsmith. No. 1,396,977; Nov. 15.
Carrier: *See*—
Type-carrier.
Cartridge-fuse. R. C. Cole. No. 1,396,781; Nov. 15.
Casing for universal joints. P. Evans. No. 1,397,413; Nov. 15.
Cast-iron, Composition for the treatment of. H. L. Coles. No. 1,397,404; Nov. 15.
Caster-wheel and making same. C. W. Millet. No. 1,397,171; Nov. 15.
Catalysis, Apparatus for beating by. E. Camoll, L. Cochet, and J. Gritte. No. 1,396,809; Nov. 15.
Cellulose esters, Making. M. E. Putnam. No. 1,396,878; Nov. 15.
Chain, Separable-link. J. C. Law. No. 1,397,131; Nov. 15.
Chair: *See*—
Folding chair.
Check-writer. C. G. Tiefel. No. 1,397,118; Nov. 15.
Chopper: *See*—
Meat-chopper.
Cigarette-package. G. W. Hill. No. 1,396,749; Nov. 15.
Cinematographic arrangement. E. Wolff. No. 1,397,348; Nov. 15.
Cinematographic apparatus, Means for intermittently feeding the films in. C. Anselmi and M. Vitorro. No. 1,396,811; Nov. 15.
Circuits, Vacuum-tube. A. Haddock. No. 1,396,745; Nov. 15.
Clamp: *See*—
Drive-clamp. Saw-clamp.
Roofing-clamp. Transfer-clamp.
Clamp, Drive-. A. W. Brown. No. 1,396,921; Nov. 15.
Clasp. A. Pfeiffer. No. 1,396,941; Nov. 15.
Clasp. A. Schroetter. No. 1,396,887; Nov. 15.
Cleaner: *See*—
Bag-cleaner.
Clip. H. A. Staab. No. 1,397,151; Nov. 15.
Closet-seat fixture. R. C. B. Judd. No. 1,396,934; Nov. 15.
Clothes-pressing apparatus. A. E. Snow. No. 1,397,300; Nov. 15.
Clothesline-holder. G. A. Hopkins. No. 1,397,051; Nov. 15.
Clothespin. R. E. Barneck. No. 1,397,199; Nov. 15.
Clutch. A. A., Jr, and H. Butterworth. No. 1,397,401; Nov. 15.
Coating reticulated forms. A. J. Hall. No. 1,396,854; Nov. 15.
Coil-winder. J. F. Cullin. No. 1,397,316; Nov. 15.
Coiling machine, Hoop-. S. J. Caroland. No. 1,397,402; Nov. 15.
Coin-handling apparatus. S. J. Bruce. No. 1,396,923; Nov. 15.
Coin-wrapping device. A. D. Mohr. No. 1,397,444; Nov. 15.
Collar. R. E. Gray. No. 1,396,883; Nov. 15.
Collar. J. M. van Heusen. No. 1,397,261; Nov. 15.
Collar-shaper. C. E. Waream. No. 1,397,309; Nov. 15.
Compresses, Moistening and wringing. C. C. Humphries. No. 1,397,429; Nov. 15.
Concrete-block-molding machine. A. L. and H. R. Post. No. 1,396,779; Nov. 15.
Concrete-form. C. G. Miess and J. J. McKay. No. 1,397,138; Nov. 15.
Concrete-mold. J. I. Jones. No. 1,397,263; Nov. 15.
Condenser. P. Thomas. No. 1,396,897; Nov. 15.
Control, System of. J. A. Clarke, Jr. No. 1,396,812; Nov. 15.
Control, System of. H. R. Meyer. No. 1,396,866; Nov. 15.
Conveyer. W. T. Wood. No. 1,396,804; Nov. 15.
Cooler display-case and refrigerator, Combined. G. C. Amend. No. 1,397,392; Nov. 15.
Core, Collapsible. J. N. Boyce. No. 1,397,073; Nov. 15.
Corrugated-board-making machine. M. B. Diskin. No. 1,396,818; Nov. 15.
Cotton-cleaner and boll-breaker. G. C. Stacy. No. 1,397,257; Nov. 15.
Cotton fibers and products, Treating. W. C. Johnson. No. 1,396,960; Nov. 15.
Cotton-separator. J. C. Garner. No. 1,397,001; Nov. 15.
Coupling: *See*—
Shaft-coupling.
Coupling. W. J. Drucker. No. 1,397,370; Nov. 15.
Coupling device, Manually-operated safety. E. Schenk. No. 1,397,237; Nov. 15.
Coupling-release rigging. S. H. Campbell. Nos. 1,396,725–6; Nov. 15.
Crank-shaft-dressing machine. J. H. Sutter. No. 1,397,152; Nov. 15.
Creels for use in warping or beaming, Tension device or yarn-cleaner for. G. Kershaw. No. 1,397,286; Nov. 15.
Crosshead pitman connection. A. Ziska, Jr. No. 1,397,308; Nov. 15.
Crystals containing foreign materials of a different specific gravity therefrom, Purification of. A. A. Backhaus. No. 1,397,121; Nov. 15.
Cultivator. D. W. Schmitt. No. 1,397,333; Nov. 15.
Cultivator-hoe. J. E. Cummings. No. 1,396,733; Nov. 15.
Current system, High-voltage direct-. R. E. Hellmund. No. 1,396,839; Nov. 15.
Cushion construction, Spring-. L. A. Suckoff. No. 1,397,021; Nov. 15.
Cutter: *See*—
Insulation-cutter. Milling-cutter.
Lashing-cutter.
Cutter and roller. J. V. Adams. No. 1,397,391; Nov. 15.
Cutter-heads, Rotor for. G. L. Kraber. No. 1,396,762; Nov. 15.
Cutting system. J. Tarasoff. No. 1,397,302; Nov. 15.
Cutting-tool. W. R. Bronander. No. 1,397,357; Nov. 15.
Dental scaler. W. H. H. Bixler. No. 1,397,395; Nov. 15.
Dental tape-winding device. J. A. Heidbrink. No. 1,396,957; Nov. 15.
Denture and tooth therefor. J. L. Williams. No. 1,397,192; Nov. 15.
Depth-indicating device. E. E. Huffman. No. 1,396,844; Nov. 15.
Die-head. G. T. Shearer. No. 1,397,238; Nov. 15.
Die-press. W. B. Bronander. No. 1,397,358; Nov. 15.
Diestock. M. Cramer. No. 1,397,243; Nov. 15.
Dimension indicator and marker. C. G. Beals. No. 1,396,806; Nov. 15.
Disintegrator, Soil-. I. A. Kerr. No. 1,397,428; Nov. 15.
Dispensing apparatus. H. B. Cooley. No. 1,396,905; Nov. 15.
Distillation of wood, woody fiber, and similar carbonaceous substances. F. Poore. No. 1,397,161; Nov. 15.
Distributers, Attaching means for broadcast. D. R. Holden. No. 1,396,843; Nov. 15.
Doll. H. M. McClelland. No. 1,396,706; Nov. 15.
Doll. G. H. Parsons. No. 1,396,875; Nov. 15.
Door-check. W. A. Geiger. No. 1,397,200; Nov. 15.
Door-control system. L. P. Hynes. No. 1,396,757; Nov. 15.
Door-lock. W. S. Brainard. No. 1,397,074; Nov. 15.
Door structure, Folding-. G. E. Mather. No. 1,396,769; Nov. 15.
Door structure, Folding-. H. W. Pugh. No. 1,396,780; Nov. 15.
Dough-raising appliance. B. W. Wolters. No. 1,396,908; Nov. 15.
Draft-arm, Combination. C. L. Bastian and H. Mathisen. No. 1,396,915; Nov. 15.
Draft-evener. C. A. West. No. 1,397,474; Nov. 15.
Drawer sets and rollers, Detachable. S. H. C. Mayne. No. 1,396,864; Nov. 15.
Dress-suit cases, &c., Strapping for. P. W. Post. No. 1,397,016; Nov. 15.
Drier. F. T. Johnson. No. 1,397,100; Nov. 15.
Drive mechanism. T. F. Ledbetter. No. 1,397,219; Nov. 15.
Driving-boxes, Lateral take-up for. J. J. Peters. No. 1,397,110; Nov. 15.
Driving mechanism, Angular. R. S. Curley. No. 1,397,244; Nov. 15.
Drying-machines, Hood-insulating means for. H. T. Baker. No. 1,397,309; Nov. 15.
Earth-boring machine. W. E. Moore. No. 1,397,324; Nov. 15.
Easel. J. A. Cameron. No. 1,396,724; Nov. 15.
Egg-poacher. E. R. Finn. No. 1,397,318; Nov. 15.
Egg-shucker. W. C. White. No. 1,397,306; Nov. 15.
Electric-candle socket. M. Herskovits. No. 1,397,212; Nov. 15.
Electric cars, &c., System of operating safety appliances on. E. J. Futterer. No. 1,397,205; Nov. 15.
Electric conduit and making same. H. M. Short. No. 1,396,789; Nov. 15.
Electric-cut-out box. C. D. Platt. No. 1,396,876; Nov. 15.
Electric indicator. F. W. Wood. No. 1,396,803; Nov. 15.
Electric-light sockets, Cap for. A. W. Limoni. No. 1,396,857; Nov. 15.
Electric-locomotive truck. A. Wallace. No. 1,397,472; Nov. 15.
Electric machine, Dynamo-. V. G. Apple. No. 1,396,947; Nov. 15.
Electric machines, Damping windings for dynamo-. R. E. Hellmund. No. 1,396,838; Nov. 15.
Electric signal. R. M. Hopkins. No. 1,397,421; Nov. 15.
Electrical distributing system. C. L. Fortescue. No. 1,396,826; Nov. 15.
Electrical measuring apparatus. H. Nyquist. No. 1,397,238; Nov. 15.
Electrical measuring instrument. C. D. Miller. No. 1,397,441; Nov. 15.
Electrical precipitating system. L. W. Chubb. No. 1,396,811; Nov. 15.
Electrical system. E. A. Hanff. No. 1,396,835; Nov. 15.
Electrical system. E. S. Lammers, Jr. No. 1,396,853; Nov. 15.
Electrical switch. H. D. James. No. 1,396,843; Nov. 15.
Electrically operating mechanism from a distance, A. Parshin. No. 1,397,449; Nov. 15.
Electrolytic cells, Automatic operation of. P. H. Brace. No. 1,396,919; Nov. 15.
Elevator-cages, Safety device for. J. Hoffer. No. 1,396,752; Nov. 15.
Elevator-cars, Safety device for. J. Hoffer. No. 1,396,753; Nov. 15.
Elevators, Safety mechanism for. J. Hoffer. No. 1,396,751; Nov. 15.
Embroidery-machines, Expanding frame for. E. Meyer. No. 1,397,322; Nov. 15.
Embryotomy device. T. J. Shumate. No. 1,397,461; Nov. 15.
Engine: *See*—
Explosive-engine.
Internal-combustion engine.
Engine-cylinders and making same, Inlay for repair of scored. C. Hopper. No. 1,397,167; Nov. 15.

Engine, Internal-combustion. G. A. Spoltz, Jr. No. 1,396,976; Nov. 15.
Engine timer. M. Isachsen. No. 1,397,005; Nov. 15.
Engines, Air-cooling system for gas-. D. L. Harris. No. 1,397,047; Nov. 15.
Engines, Auxiliary air-intake for internal-combustion. J. Bacon. No. 1,397,349; Nov. 15.
Engines, Cooling means for motor-vehicle. G. L. Schofield. No. 1,396,755; Nov. 15.
Engines, Manifold for internal-combustion. A. Bachle. No. 1,397,462; Nov. 15.
Engines, Means for cooling internal-combustion. P. J. Garrison. No. 1,396,953; Nov. 15.
Engines, Starter for internal-combustion. C. M. Dyer. No. 1,396,736; Nov. 15.
Engines, Variable-lift fuel-valve for oil-. K. O. Keller. No. 1,396,935; Nov. 15.
Engraving-block. H. Plummer. No. 1,397,293; Nov. 15.
Envelop-album, Loose-leaf. A. W. Engel. No. 1,397,000; Nov. 15.
Envelop, Record-. F. Wokoun. No. 1,397,477; Nov. 15.
Envelop rubber folding-machine in combination with a closing-flap-gumming machine. A. Winkler and M. Dünnebier. No. 1,396,906; Nov. 15.
Extensometer. G. H. Benedict. No. 1,397,030; Nov. 15.
Extracting and refining greasy substances contained in water, Apparatus for. E. Sepulchre. No. 1,396,889; Nov. 15.
Explosive-engine. D. F. Asbury. No. 1,396,912; Nov. 15.
Fabrics, Apparatus for use in connection with machines for bleaching, dyeing, finishing, and otherwise treating. J. Thurber. No. 1,396,950; Nov. 15.
Facing and plug therefor, Replaceable. G. E. Cox. No. 1,397,082; Nov. 15.
Fastener elements, Attaching means for separable. A. Lovine and L. Offerman. No. 1,397,382; Nov. 15.
Faucet, L. S. Lord. No. 1,397,220; Nov. 15.
Faucet, Dripless. S. A. Haines. No. 1,397,251; Nov. 15.
Feed regulator, Pulp-. H. A. Fensky. No. 1,397,415; Nov. 15.
Fender device. M. D. Rathbun. No. 1,397,451; Nov. 15.
Filling-machine. J. Schaub. No. 1,397,154; Nov. 15.
Film-splicing device. O. G. Stolz. No. 1,396,805; Nov. 15.
Finger-Guard-. F. Crawford. No. 1,396,997; Nov. 15.
Fire-detector. A. Hudon and P. W. Ward. No. 1,397,004; Nov. 15.
Fire-extinguisher system, Stationary chemical-mixing. J. W. Enright. No. 1,397,411; Nov. 15.
Firearm. P. Martino. No. 1,396,969; Nov. 15.
Firearm. J. D. Pedersen. No. 1,397,109; Nov. 15.
Firearm-register. A. Copelli and F. Albi. No. 1,397,313; Nov. 15.
Flagman's outfit. C. C. Shepard. No. 1,396,787; Nov. 15.
Flashing. L. W. Cramer. No. 1,396,732; Nov. 15.
Floor construction. F. M. Sawyer. No. 1,397,147; Nov. 15.
Flour-sifter. A. F. Zoek. No. 1,397,473; Nov. 15.
Fluid-controlling apparatus. E. J. Wiggins. No. 1,397,190; Nov. 15.
Fluid-heater. J. H. Hanley, Jr., and J. L. Krieg. No. 1,397,382; Nov. 15.
Flying-machine. J. W. Smith. No. 1,396,974; Nov. 15.
Focusing attachment. A. L. Patterson. No. 1,397,281; Nov. 15.
Folding chair. L. C. Travers. No. 1,396,784; Nov. 15.
Form-lifter. L. M. Convert. No. 1,397,241; Nov. 15.
Frame: *See*—
Vacuum pressure-frame.
Freezer, Continuous. J. F. Pfeiffer. No. 1,396,972; Nov. 15.
Freight carriers, Clamp for. H. W. Kirchner. No. 1,396,961; Nov. 15.
Fruit-gatherer. G. Stromovsky. No. 1,397,464; Nov. 15.
Frying-pan. J. G. King. No. 1,396,848; Nov. 15.
Fuel, Apparatus for using powdered. A. G. Kinyon. No. 1,396,761; Nov. 15.
Fuel, Burning comminuted. J. H. Cooper. No. 1,397,266; Nov. 15.
Fuel, Device for burning vaporous or gaseous. M. M. Gillam. No. 1,397,003; Nov. 15.
Fuel-feeding system, Vacuum. F. D. Nelson. No. 1,396,940; Nov. 15.
Furnace: *See*—
Heating-furnace.
Furnace. A. Smallwood. No. 1,396,943; Nov. 15.
Furnaces of steam boilers, Water-arch for. R. G. Seaman. No. 1,397,440; Nov. 15.
Furniture for printers, Extension. H. H. Hancock. Nos. 1,397,485–6; Nov. 15.
Furniture, Office. G. A. Ritz. No. 1,397,295; Nov. 15.
Fuse. J. H. Bradnack. No. 1,396,968; Nov. 15.
Gage device. J. J. Fitzgerald. No. 1,397,275; Nov. 15.
Game. H. S. Vogel. No. 1,396,795; Nov. 15.
Game apparatus, Baseball-. A. Weinberg and C. V. Linderman. No. 1,396,798; Nov. 15.
Garbage-can. J. E. Trevier. No. 1,397,260; Nov. 15.
Garment, Infant's. S. W. Laing. No. 1,397,381; Nov. 15.
Garter. R. W. Merritt. No. 1,397,106; Nov. 15.
Gas and air mixing device. C. H. Werlin. No. 1,397,473; Nov. 15.
Gas-burner. H. A. Bubb. No. 1,397,077; Nov. 15.
Gas cleaner, Dry-. F. R. McGee and G. W. Vreeland. No. 1,396,767; Nov. 15.
Gas-meters, Means for and method of testing. E. L. Dezendorf. No. 1,396,817; Nov. 15.
Gasifier. W. M. Sublette. No. 1,397,063; Nov. 15.
Gasolene substitute, Making. C. Ellis. No. 1,396,909; Nov. 15.
Gate-fastener. C. Schmale. No. 1,397,459; Nov. 15.
Gear-cutting machine. R. E. Garrett. No. 1,397,372; Nov. 15.
Gear drive, Worm-. G. F. Eckart. No. 1,397,317; Nov. 15.
Gearing, Differential. A. O. Williams. No. 1,397,066; Nov. 15.
Gearing, Transmission-. C. E. Mills. No. 1,397,442; Nov. 15.
Generator suspension. D. N. Balderston. No. 1,397,122; Nov. 15.
Glass-forming apparatus, Sheet-. M. J. Owens. No. 1,397,326; Nov. 15.
Glass-holder. R. G. Mitchell. No. 1,397,328; Nov. 15.
Glass, Making plate-. J. H. McKelvey and C. F. Byan. No. 1,397,287; Nov. 15.
Glasses, suction-cups, &c., Apparatus for the rapid application of cuppings-. F. Devienne. No. 1,397,035; Nov 15
Goggles. E. T. P. Goodyear. No. 1,397,250; Nov. 15.
Grading-machine. W. Pilger. No. 1,397,180; Nov. 15.
Grate, Stove-. E. G. Roessler. No. 1,397,386; Nov. 15.
Grinding-machine. A. E. Maynard. No. 1,397,289; Nov. 15.
Gun. O. B. Graham. No. 1,396,832; Nov. 15.
Gun, Automatic. T. H. Eickhoff. No. 1,396,949; Nov. 15.
Gun, Pneumatic. A. Christie. No. 1,396,929; Nov. 15.
Gun-sight. T. E. Jackson. No. 1,397,377; Nov. 15.
Gun-sight. O. V. Payne. No. 1,397,108; Nov. 15.
Gutter-hanger. M. Rachlin. No. 1,397,329; Nov. 15.
Hair-marceling apparatus. T. C. Russell. No. 1,397,332; Nov. 15.
Hammer. M. Ferraro. No. 1,396,822; Nov. 15.
Hammock. P. B. Bebry. No. 1,397,201; Nov. 15.
Hand-brake. J. F. O'Connor. No. 1,397,230; Nov. 15.
Hand-fired furnace. W. Hotchkiss and J. E. W. Sheehan. No. 1,397,422; Nov. 15.
Handbag. M. Diamond. No. 1,397,369; Nov. 15.
Handbags and the like, Clasp-fastener for. E. C. Schroeder. No. 1,396,942; Nov. 15.
Handlamp. G. D. Gallagher. No. 1,396,828; Nov. 15.
Handlamp-switch. G. D. Gallagher. Nos. 1,396,829–30; Nov. 15.
Handle: *See*—
Vehicle-door handle.
Handle, Adjustable extension-. G. L. E. Klingbeil. No. 1,396,850; Nov. 15.
Handles, Making. H. G. Carlson. No. 1,397,360; Nov. 15.
Hanger: *See*—
Brake-hanger. Gutter-hanger.
Harrow. E. W. McNabb. No. 1,397,104; Nov. 15.
Harrow, Revolving. H. J. Wilcox. No. 1,396,905; Nov. 15.
Hat-protector. J. A. Fisher. No. 1,397,246; Nov. 15.
Hay-rack carriage, Wagon-. J. S. Myers. No. 1,397,446; Nov. 15.
Headlight apparatus, Automobile-. S. F. Arbuckle. No. 1,397,393; Nov. 15.
Heat-exchanger. R. W. Douglas. No. 1,397,091; Nov. 15.
Heat-interchange apparatus for. J. M. Harrison. No. 1,397,097; Nov. 15.
Heater: *See*—
Air-heater. Water-heater.
Fluid-heater.
Heating-furnace, Continuous. T. J. Costello. No. 1,397,367; Nov. 15.
Heel-pads, Machine for molding. E. E. Winkley. No. 1,396,802; Nov. 15.
Hinge, Bag-handle. F. C. Botwright. No. 1,397,356; Nov. 15.
Hoist mechanism. J. F. Godfrey. No. 1,397,164; Nov. 15.
Hoisting apparatus. F. S. Schaefer. No. 1,397,057; Nov. 15.
Horseshoe. J. Haller. No. 1,397,046; Nov. 15.
Household article. P. F. Glenn. No. 1,397,249; Nov. 15.
Hub-caps, Lock for. A. W. Saegesser. No. 1,396,864; Nov. 15.
Hub-plate, Adjustable. C. W. Dake. Nos. 1,397,083–4; Nov. 15.
Hydraulic transmission. L. J. Hugues. No. 1,396,758; Nov. 15.
Hydrocarbon-burner. J. F. Lawrence. No. 1,396,854; Nov. 15.
Hydrocarbon-motor. C. R. Short. Nos. 1,396,890–91; Nov. 15.
Hydrocarbon-motor. D. M. White. No. 1,396,904; Nov. 15.
Hydroplane. R. E. Ventress, Sr. No. 1,397,470; Nov. 15.
Hypochlorite solutions, Electrolytic production of. H. B. Slater. No. 1,397,339; Nov. 15.
Ice-cream and making same, Carbonated. M. J. Ingle. No. 1,397,168; Nov. 15.
Ignition apparatus. W. B. Moses. No. 1,396,869; Nov. 15.
Ignition-machines for internal-combustion engines, Cable-outlet of magneto-electric. J. Schneider, E. Hurlimann, and F. Billon. No. 1,397,148; Nov. 15.
Ignition-switch. V. A. Fynn. No. 1,397,277; Nov. 15.
Impregnating composition and production thereof. S. A. Aannerud and B. F. Halvorsen. No. 1,397,197; Nov. 15.

Inclinometer. A. Peradotto. No. 1,397,499; Nov. 15.
Indicator: *See*—
Electric indicator.
Induction apparatus, Stationary. J. A. Seede. No. 1,397,298; Nov. 15.
Insect-exterminator. W. F. Lackie. No. 1,397,218; Nov. 15.
Insulating end plate. L. B. Cole. No. 1,397,363; Nov. 15.
Insulating supporting-blocks, Manufacture of. A. G. Jillard and S. Bracken. No. 1,396,759; Nov. 15.
Insulation-cutter. W. W. Weber. No. 1,396,990; Nov. 15.
Internal expanding brake. J. O. Michaud. No. 1,397,225; Nov. 15.
Iron-leather, Manufacture of. O. Röhm. No. 1,397,387; Nov. 15.
Ironing-roll. E. L. York. No. 1,397,348; Nov. 15.
Jack: *See*—
Lifting-jack.
Jack and safety device, Combined auto-. W. Scott. No. 1,397,185; Nov. 15.
Jack-lever connection. E. J. Van Fleet. No. 1,396,901; Nov. 15.
Jacks, Brake mechanism for lifting-. M. J. Harkless. No. 1,396,955; Nov. 15.
Jar-cover remover, Fruit-. A. B. Miller. No. 1,396,867; Nov. 15.
Jar-holder. H. P. Rykken. No. 1,397,457; Nov. 15.
Joint: *See*—
Pipe-joint. Rail-joint.
Journal-box lubricator. T. W. Demarest. No. 1,396,734; Nov. 15.
Kerosene-gas-generating apparatus, Non-flooding attachment for. C. A. Hill. No. 1,397,049; Nov. 15.
Knife and tool-pad, Pocket-. E. Priestman. No. 1,397,018; Nov. 15.
Knitting-machine. H. T. Ballard. No. 1,397,070; Nov. 15.
Knitting-machine and fabric, (spot effect.) H. T. Ballard. No. 1,397,069; Nov. 15.
Lace-braiding machine. E. L. Smith. No. 1,397,200; Nov. 15.
Ladder. G. A. Johnson. No. 1,397,216; Nov. 15.
Lamp. J. J. Rekar. No. 1,397,453; Nov. 15.
Lamp-holder for miners' caps. J. Barta. No. 1,397,200; Nov. 15.
Lamps, Cleaner for burners of carbid-. J. W. Jacobson and J. E. Turja. No. 1,397,170; Nov. 15.
Land scraping and leveling machine. J. T. Compton. No. 1,397,265; Nov. 15.
Lashing-cutter. P. J. and M. J. Clarke. No. 1,397,362; Nov. 15.
Lathe, Automatic multiple-spindle. W. G. Berry. No. 1,396,807; Nov. 15.
Ledger-sheet. C. A. Hammer. No. 1,397,096; Nov. 15.
Lenses, Means for polishing multifocal. L. W. Bugbee. No. 1,397,399; Nov. 15.
License-plate. G. W. Campion. No. 1,397,032; Nov. 15.
Life-preserver. A. D. Frantz. No. 1,397,248; Nov. 15.
Lifting-jack. W. H. Fowkes. No. 1,396,955; Nov. 15.
Lifting-jack. W. H. Fowkes and M. J. Harkless. No. 1,396,952; Nov. 15.
Lifting-jack. W. E. Lombard. No. 1,396,858; Nov. 15.
Light and license-tag holder, Tail-. C. Ringham and W. H. Klingberg. No. 1,397,330; Nov. 15.
Lighting-fixture. M. Firman. No. 1,397,274; Nov. 15.
Lighting-fixture. A. R. Locke. No. 1,396,936; Nov. 15.
Lighting-fixtures, Device for connecting bowls and shades in. W. R. Kahns. No. 1,397,285; Nov. 15.
Link. J. V. Sandquist. No. 1,397,458; Nov. 15.
Liquid-fuel burner. A. O. Vestine. No. 1,397,359; Nov. 15.
Liquid-level indicator. C. E. Cox. No. 1,397,207; Nov. 15.
Liquid-projecting device. H. E. Tunnell. No. 1,397,023; Nov. 15.
Liquids used in industrial chemical processes, Treating. F. A. Eustis. No. 1,397,094; Nov. 15.
Loaves and like products, Dough-rolling apparatus for making long. H. Rolin. No. 1,396,881; Nov. 15.
Lock: *See*—
Bag-lock. Nut-lock.
Door-lock. Transmission-lock.
Lubricating device. C. L. Wells. No. 1,397,065; Nov. 15.
Lubrication, Circulating. W. Holthorp. No. 1,397,050; Nov. 15.
Lubrication, Rolling-mill. H. R. Geer. No. 1,397,163; Nov. 15.
Lubricator: *See*—
Axle-lubricator. Journal-box lubricator.
Lubricator. W. G. Coles. Nos. 1,397,036–7; Nov. 15.
Mail-receptacle, House. W. H. Martin. No. 1,397,438; Nov. 15.
Map-case. J. F. Pilgrim and W. A. Nimmer. No. 1,397,327; Nov. 15.
Match-box holder. C. B. Prichett. No. 1,397,242; Nov. 15.
Measuring-blocks, Base for holders for. C. A. Westerberg. No. 1,397,189; Nov. 15.
Measuring concealed objects. B. E. Brostrom. No. 1,396,920; Nov. 15.
Meat-chopper. J. W. Brown, Jr. No. 1,397,396; Nov. 15.
Merchandise, Detachable indicator for. L. Cohen. No. 1,397,079; Nov. 15.
Mercuric oxid, Manufacture of. G. Bruno. No. 1,397,076; Nov. 15.
Mesh-machines, Suspension-sleeve for. S. G. Mandalian. No. 1,397,258; Nov. 15.
Metal-coating metallic articles. E. S. Mowry. No. 1,397,175; Nov. 15.
Metal elements, Method and apparatus for forming and assembling. R. S. Smith. No. 1,397,020; Nov. 15.
Metal resistor and making same, Expanded-. H. C. Nagel. No. 1,396,871; Nov. 15.
Metal covering apparatus. L. A. Carter. No. 1,396,996; Nov. 15.
Metal-sheet-pack-opening device. D. L. Maineri. No. 1,396,765; Nov. 15.
Metals, Preparing finely-divided. A. McGall. No. 1,397,009; Nov. 15.
Metallic seal. W. J. Kelly. No. 1,397,101; Nov. 15.
Milk and cream testing apparatus. E. Gray and J. C. Bickley. No. 1,396,743; Nov. 15.
Milk and other liquid substances, Device for atomizing and drying or evaporating. P. Müller. No. 1,397,445; Nov. 15.
Milking-machine. H. F. Bodeker. No. 1,396,967; Nov. 15.
Milling-cutter. F. Wiard. No. 1,397,119; Nov. 15.
Mirrors, Device for adjustable mouth-. F. M. Dimas. No. 1,397,090; Nov. 15.
Mold: *See*—
Concrete-mold. Vulcanizing-mold.
Molding device. B. B. Grunwald. No. 1,397,375; Nov. 15.
Monument. E. A. Brown. No. 1,397,483; Nov. 15.
Mop. J. T. Heaton. No. 1,397,284; Nov. 15.
Motor: *See*—
Hydrocarbon-motor. Plow-motor.
Motion of machinery, Mechanism for reversing the direction of. H. F. H. G. Miot. No. 1,397,172; Nov. 15.
Motor-control system. L. J. Stephenson. No. 1,397,335; Nov. 15.
Motor-mounting. E. Lyon and H. F. Williams. No. 1,396,966; Nov. 15.
Motor-support. J. H. McCormick. No. 1,397,433; Nov. 15.
Multicolor-press. L. Friedman. No. 1,396,827; Nov. 15.
Musical instrument. W. C. Roberts. No. 1,397,019; Nov. 15.
Nail: *See*—
Upholstery-nail.
Nail-string machine. S. M. Cutter. No. 1,397,204; Nov. 15.
Nail-string machine. G. C. F. Williams. No. 1,397,191; Nov. 15.
Nail, Upholstery-. C. W. Tobey. No. 1,397,388; Nov. 15.
Neckband for shirts. M. E. Manire. No. 1,397,435; Nov. 15.
Needle, Embroidery-. P. S. Kirby. No. 1,396,849; Nov. 15.
Noose-forming device. J. A. Keenum. No. 1,397,126; Nov. 15.
Nozzle guide-passage. C. W. Dake. No. 1,397,085; Nov. 15.
Nut-lock. G. R. Holmes and W. J. Wisch. No. 1,397,252; Nov. 15.
Nuts in the shell, Salting. T. C. Tucker. No. 1,397,187; Nov. 15.
Oil and gas, Method and apparatus for separating. D. G. Lorraine. No. 1,396,860; Nov. 15.
Oil and producing same, Material for decolorising. P. W. Prutzman. No. 1,397,113; Nov. 15.
Oil-burner system. M. A. Fesler. No. 1,396,828; Nov. 15.
Oil-well machinery comprising the spring-ball elevator. W. G. Black. No. 1,397,072; Nov. 15.
Oiling system for automobiles. A. I. Johnson. No. 1,396,959; Nov. 15.
Optical instrument. A. Baumann. No. 1,397,156; Nov. 15.
Ore-separator. G. W. Arnold. No. 1,397,480; Nov. 15.
Ores, Treating complex zinc-lead. S. Ganellin. No. 1,396,740; Nov. 15.
Packing construction, Expanding-. J. W. Harasta. No. 1,396,836; Nov. 15.
Paint. E. Langfeldt. No. 1,397,103; Nov. 15.
Paint. E. F. Mees. No. 1,396,970; Nov. 15.
Paint and making same. C. Berg. No. 1,396,986; Nov. 15.
Paint, Fireproof. G. A. Wortelmann. No. 1,397,028; Nov. 15.
Pan: *See*—
Frying-pan.
Panels, Making long ply-wood. G. B. Meyercord. No. 1,396,971; Nov. 15.
Paper, Core for rolls of. H. Parker. No. 1,397,143; Nov. 15.
Paper-fastener. F. W. Shute. No. 1,396,790; Nov. 15.
Pasting device. T. Dean. No. 1,396,998; Nov. 15.
Petrol-tank. A. Macbeth. No. 1,397,283; Nov. 15.
Phonographs, Automatic stop for. G. W. Lorimer. No. 1,396,964; Nov. 15.
Phosphates, Treatment of. E. C. Soper. No. 1,396,975; Nov. 15.
Photographic records, Method and apparatus for making. C. E. K. Mees. No. 1,396,770; Nov. 15.
Photometer. W. F. Little and C. H. Sharp. No. 1,396,963; Nov. 15.
Piano-roll centralizer, Player-. J. F. Lauda. No. 1,397,255; Nov. 15.
Pianos, pipe-organs, or similar instruments, Violin-playing attachment for. D. E. Adamson. No. 1,397,479; Nov. 15.
Picker. H. G. West. No. 1,397,475; Nov. 15.
Picture films, Machine for coloring motion-. G. Taussig. No. 1,396,791; Nov. 15.
Pie-making machine. W. Ehrlich. No. 1,397,272; Nov. 15.
Pigment, Manufacture of a white. A. L. Barbe. No. 1,396,914; Nov. 15.

Pigments, Producing composite titanium. H. H. Buckman. No. 1,396,924; Nov. 15.
Pincheck. W. S. Avery. No. 1,397,481; Nov. 15.
Pins, Safety-catch for. F. J. Engel. No. 1,397,002; Nov. 15.
Pipe-joint. H. G. Plummer. No. 1,397,145; Nov. 15.
Pipe-or-spout-cleaning tool. J. M. Bowman. No. 1,397,312; Nov. 15.
Piston-ring. A. O. Schmolinski. No. 1,397,334; Nov. 15.
Planer and system of motor control therefor. H. L. Blood. No. 1,397,396; Nov. 15.
Planing-machines, &c., Rotatable tool-carrier for. J. W. Oliver. No. 1,397,014; Nov. 15.
Plant, Hydraulic. P. ten B. Cate. No. 1,396,994; Nov. 15.
Planter, Seed-beet. J. D. Samuels and H. E. Bates. No. 1,396,784; Nov. 15.
Planting-machine. M. Tworski. No. 1,396,900; Nov. 15.
Pliers. J. L. Mayhew. No. 1,396,863; Nov. 15.
Plow. H. M. Derrick. No. 1,396,916; Nov. 15.
Plow and subsoiler, Disk. A. P. McKay. No. 1,397,434; Nov. 15.
Plow, Motor-. H. Riddy. No. 1,397,146; Nov. 15.
Plow, Power-lift. H. R. Traphagen. No. 1,396,793; Nov. 15.
Polishing composition and making same. H. C. Kerr. No. 1,397,102; Nov. 15.
Powder, Reducing sludge to. H. W. Charlton. No. 1,397,078; Nov. 15.
Powder, Smokeless shotgun-. F. I. du Pont. No. 1,397,042; Nov. 15.
Power-brake. P. S. Morgan. No. 1,397,012; Nov. 15.
Power mechanism. J. L. Forsyth and A. Bopp. No. 1,396,624; Nov. 15.
Power-transmitter. A. H. De Voe. No. 1,397,088; Nov. 15.
Power-transmitters, Means for operating. D. F. Geiger. No. 1,396,954; Nov. 15.
Press: *See*—
Die-press. Printing-press.
Multicolor-press.
Pressing-machine. C. L. Braley. No. 1,397,202; Nov. 15.
Pressure-tanks, Filler-cup and closure for. R. E. Macdonough. No. 1,397,320; Nov. 15.
Pressure variable resistance. A. Churchward. No. 1,397,361; Nov. 15.
Pretzel-making machine. J. G. Robbins. No. 1,397,233; Nov. 15.
Printing-press. J. L. Oberly. No. 1,396,872; Nov. 15.
Protective device. H. G. French. No. 1,397,276; Nov. 15.
Pulverizer. J. C. Tarvin. No. 1,397,467; Nov. 15.
Pump. E. Paoticelli. No. 1,397,179; Nov. 15.
Pump-barrel. A. W. Brown. No. 1,396,922; Nov. 15.
Pump, Centrifugal. M. J. Finn. No. 1,397,273; Nov. 15.
Pump, Turbine-. A. C. Douglass. No. 1,396,820; Nov. 15.
Punch-press chuck. T. Zetterlund. No. 1,397,307; Nov. 15.
Purifying agent, Making a. R. W. Mumford. No. 1,396,773; Nov. 15.
Purifying bauxite. E. Everhart. No. 1,397,414; Nov. 15.
Pyrotechnic device. J. Jex. No. 1,397,425; Nov. 15.
Pyroxylin solvent. R. B. Mitchell. No. 1,397,173; Nov. 15.
Pyroxylin solvent. R. B. Mitchell. No. 1,397,493; Nov. 15.
Quartering and crank-pin-turning machine. D. H. Teas and A. Wood. No. 1,397,468; Nov. 15.
Radiator. O. J. Groehn and F. L. Alldis. No. 1,396,931; Nov. 15.
Radiator. W. Sparks. No. 1,397,116; Nov. 15.
Radiator. Steam or hot-water. T. E. Murray. No. 1,397,325; Nov. 15.
Radiators, Thermostat for. A. D. Ray. No. 1,396,782; Nov. 15.
Radiorepeating system. L. Espenschied. No. 1,397,093; Nov. 15.
Radius-rod connection. A. G. Best. No. 1,397,157; Nov. 15.
Rail-joint. E. L. Nylund. No. 1,397,107; Nov. 15.
Railway-artillery. G. R. Lukeah. No. 1,397,483; Nov. 15.
Railway-brake. T. Miyagi. No. 1,397,443; Nov. 15.
Railway control system. W. B. Murray. No. 1,396,870; Nov. 15.
Railway-signal. N. L. Harkness. No. 1,397,419; Nov. 15.
Railway signaling system. C. L. Fortescue. No. 1,396,825; Nov. 15.
Railway signaling system. C. F. Scott. No. 1,396,888; Nov. 15.
Railway-switch operating mechanism. J. R. Dudley. No. 1,397,406; Nov. 15.
Raising and lowering steps, Automatic. E. B. Reeder. No. 1,397,294; Nov. 15.
Rat-trap. T. Nagayama. No. 1,397,384; Nov. 15.
Reaper, Circular-disk. A. E. Cook. No. 1,397,365; Nov. 15.
Reapers, Chain-cutter for. A. E. Cook. No. 1,397,364; Nov. 15.
Receiver-shield. J. P. Minton. No. 1,396,771; Nov. 15.
Receptacles or the like, Apparatus for filling. H. M. Smith. No. 1,397,061; Nov. 15.
Refrigerating apparatus. L. G. Copeman. No. 1,396,996; Nov. 15.
Refrigerating-box, Knockdown. Z. U. Dodge. No. 1,397,269; Nov. 15.
Refrigerator. H. C. Pierce. No. 1,396,875; Nov. 15.
Regenerative brake device. W. V. Turner. (Reissue.) No. 15,229; Nov. 15.
Register: *See*—
Firearms-register.
Regulating system. A. A. Tirrill. No. 1,396,896; Nov. 15.
Resilient wheel. H. Nichols. No. 1,397,140; Nov. 15.
Resilient wheel. G. M. Willis. No. 1,396,964; Nov. 15.
Reversing engine control means. H. W. Sumner. No. 1,397,258; Nov. 15.
Reversing mechanism. J. V. Petrelli. No. 1,397,111; Nov. 15.
Road-working machine. N. S. and A. J. Monroe. No. 1,397,011; Nov. 15.
Rolling-mill for bending angle or channel iron into different angles. J. P. Eckenroth. No. 1,397,271; Nov. 15.
Roofing-clamp. C. Carson. No. 1,397,033; Nov. 15.
Rope conveyer. A. Derungs. No. 1,397,263; Nov. 15.
Rope-grip. W. Travell. No. 1,397,259; Nov. 15.
Rope-holder. J. W. Abel. No. 1,397,120; Nov. 15.
Rubber compounds, Compounding of. E. C. Hartong. No. 1,396,837; Nov. 15.
Rupture appliance. S. H. Higginbotham. No. 1,396,840; Nov. 15.
Sack, Pack-. T. Clemetson. No. 1,397,161; Nov. 15.
Saddle attachment. T. W. Keithley. No. 1,397,128; Nov. 15.
Saddle, Running-board. G. E. Carson. No. 1,396,727; Nov. 15.
Safety attachment. E. C. Etchison. No. 1,397,371; Nov. 15.
Safety-pin. E. Schenk. No. 1,397,286; Nov. 15.
Sanitary cover. L. J. Isenhour. No. 1,397,169; Nov. 15.
Sash counterbalance, Window-. G. E. Klein. No. 1,397,129; Nov. 15.
Sash-fastener. L. T. Penny. No. 1,397,450; Nov. 15.
Saw-clamp. J. Dory. No. 1,396,819; Nov. 15.
Saw filer, Gin-. E. B. Bridges. No. 1,397,075; Nov. 15.
Saw, Link. C. Wolf. No. 1,397,026; Nov. 15.
Saw-set. K. Rinne. No. 1,397,331; Nov. 15.
Scaffold-support. D. E. Madsen and J. Kelly. No. 1,396,968; Nov. 15.
Scale and grain-sampler. C. R. Bennett. No. 1,396,916; Nov. 15.
Screen-separator. T. J. Sturtevant. Nos. 1,397,338; Nov. 15.
Screen-separator. T. L. Sturtevant. Nos. 1,397,339-43; Nov. 15.
Screwdriver. E. A. Heintsman. No. 1,396,748; Nov. 15.
Seat: *See*—
Auxiliary seat.
Secondary batteries, Dismantling. R. F. Stein. (Reissue.) No. 15,230; Nov. 15.
Seeder, Harrow-trailing. J. Ploen. No. 1,396,877; Nov. 15.
Seeds, Device for separating. F. C. Nourse. No. 1,397,141; Nov. 15.
Separator: *See*—
Cotton-separator. Screen-separator.
Ore-separator.
Separator. F. W. Miller. No. 1,396,939; Nov. 15.
Separator. T. L. Sturtevant. No. 1,397,539; Nov. 15.
Separator. T. L., T. J., and L. H. Sturtevant. No. 1,397,336; Nov. 15.
Sewing-machine. J. E. Miller. No. 1,397,052; Nov. 15.
Sewing-machine. A. R. Morrill. No. 1,397,013; Nov. 15.
Sewing-machines, Feeding mechanism for. R. Becker. No. 1,397,071; Nov. 15.
Sewing-machines, Trimming mechanism for. G. S. Gatchell. No. 1,397,002; Nov. 15.
Shade appliance. A. C. Hough. No. 1,397,215; Nov. 15.
Shade bracket, Window-. C. H. Robinson. No. 1,397,456; Nov. 15.
Shaft-coupling, Flexible. G. H. Thomas. No. 1,396,979; Nov. 15.
Sheet-feeding mechanism. E. White. No. 1,397,305; Nov. 15.
Sheets edge to edge, Method of and apparatus for gluing. G. R. Meyercord. No. 1,397,489; Nov. 15.
Sheets of plastic combination, Apparatus for making. E. E. Davidson. No. 1,397,087; Nov. 15.
Ship-protector. Y. Dedik. No. 1,397,405; Nov. 15.
Ships, Keel-blocks for building. J. M. Leighton. No. 1,397,487; Nov. 15.
Shock-absorber. G. E. Harpham. No. 1,397,377; Nov. 15.
Shock-absorber. A. J. Kraber. No. 1,396,851; Nov. 15.
Shock-absorbing mechanism. W. E. Symons. No. 1,396,886; Nov. 15.
Shock-absorbing mechanism, Friction. J. F. O'Connor. No. 1,397,229; Nov. 15.
Shock-diffuser. F. F. Landis. No. 1,397,429; Nov. 15.
Shoe and making same. E. R. Ruthsatz. No. 1,396,783; Nov. 15.
Shoe-bottom. E. E. Winkley. No. 1,396,801; Nov. 15.
Shoe-last, Adjustable. J. L. Wolf. No. 1,396,907; Nov. 15.
Signal: *See*—
Automobile-signal. Railway-signal.
Electric signal. Train-signal.
Signaling-circuit. K. S. Johnson. No. 1,396,760; Nov. 15.
Signaling-generator. O. E. Hill. No. 1,396,750; Nov. 15.
Signaling system. C. V. Logwood. No. 1,397,432; Nov. 15.
Slicing-machine. W. F. H. Braun. No. 1,397,155; Nov. 15.
Slicing-machine. J. D. Vaughn. No. 1,397,469; Nov. 15.
Smoke-preventer. B. L. Ames. No. 1,397,155; Nov. 15.

Snow-gathering device. M. Markovich. No. 1,397,436; Nov. 15.
Snowplow. M. Jezova. No. 1,396,846; Nov. 15.
Soap-bubble device. M. G. Dobbins. No. 1,397,162; Nov. 15.
Soap-dispensing apparatus. R. Swimmer. No. 1,397,344; Nov. 15.
Sodium sesquicarbonate, Preparation of. W. Hirschkind. No. 1,396,841; Nov. 15.
Soldering-iron heater. J. Needham. No. 1,397,179; Nov. 15.
Sound-waves on diaphragms, Device for impressing. C. G. Hensley. No. 1,397,048; Nov. 15.
Spark-arrester. T. Rudninski. No. 1,396,862; Nov. 15.
Spark-plug. G. Margolin. No. 1,397,321; Nov. 15.
Spark-plugs, Attachment for. A. R. Price. No. 1,397,017; Nov. 15.
Speed-control device. P. O. Wood and H. L. Worman. No. 1,397,194; Nov. 15.
Speed-reduction wheel. A. E. Cook and T. Van Tuyl. No. 1,397,266; Nov. 15.
Speed-regulating apparatus. V. A. Fynn. No. 1,397,278; Nov. 15.
Spindle machine-tool, Multiple-. G. E. Randles. No. 1,396,761; Nov. 15.
Spinning-machines, Thread-breaking device for. F. Q. Hartman. No. 1,397,283; Nov. 15.
Spinning-mules, Reversible transmission for. J. H. Ryalls. No. 1,396,883; Nov. 15.
Spring-link. L. J. Litchfield. No. 1,397,431; Nov. 15.
Spring-wheel. W. F. Norris. No. 1,397,448; Nov. 15.
Staple-driving machine. J. Muth. No. 1,397,176; Nov. 15.
Staple-remover. J. Muth. No. 1,397,177; Nov. 15.
Steering apparatus, Stopping device for. P. D. Benbow and W. E. Beck. No. 1,397,311; Nov. 15.
Steering device. W. R. Hudson. No. 1,396,755; Nov. 15.
Steering-wheel. H. W. Bundy. No. 1,396,900; Nov. 15.
Stepladder. H. M. Graf. No. 1,397,280; Nov. 15.
Stirrup-hammer. M. F. Williams. No. 1,396,963; Nov. 15.
Stone-setting tool. O. W. Jonas. No. 1,397,124; Nov. 15.
Storage-battery-testing instrument. J. W. Fitzgerald. No. 1,397,247; Nov. 15.
Storage-port, Floating. G. K. Reist. No. 1,397,385; Nov. 15.
Store, Self-serving. F. E. Jones. No. 1,397,379; Nov. 15.
Stove and burner, Combination gas. E. A. Campbell. No. 1,397,160; Nov. 15.
Stove and fireless cooker, Gas-. A. F. Glass. No. 1,397,207; Nov. 15.
Stove, &c., polish. N. Boynoff. No. 1,397,397; Nov. 15.
Suitcase. S. Grossman. No. 1,397,374; Nov. 15.
Sulfite liquors and products obtained therefrom, Treating waste. W. H. Dickerson. No. 1,397,039; Nov. 15.
Sulfur, Method of and apparatus for treating and handling. F. J. Hill. No. 1,397,099; Nov. 15.
Sun-dial. C. D. Love. No. 1,396,957; Nov. 15.
Support, Adjustable. W. A. Parent. No. 1,396,777; Nov. 15.
Swing. H. Osiek. No. 1,396,776; Nov. 15.
Swing and couch, Convertible porch-. C. A. Neiswender and W. C. Weathe. No. 1,396,774; Nov. 15.
Switch; *See*—
Electrical switch.
Switch-operating device. W. J. Ettinger. No. 1,397,245; Nov. 15.
Switch-stands, Double automatic latch for. F. C. Anderson. No. 1,396,946; Nov. 15.
Table-lowering attachment, Automatic. B. T. Hazelton. No. 1,397,210; Nov. 15.
Tank; *See*—
Petrol-tank.
Tap, Self-closing. H. Jarvis. (Reissue.) No. 15,225; Nov. 15.
Telegraph system. C. Halter. No. 1,396,746; Nov. 15.
Telephone apparatus, Portable. A. Miclausch. No. 1,397,127; Nov. 15.
Telephone-exchange system. H. P. Clausen. No. 1,397,034; Nov. 15.
Telephone-exchange system. C. B. Fowler. No. 1,396,739; Nov. 15.
Telephone-receiver. H. C. Harrison. No. 1,396,747; Nov. 15.
Telephone system. H. P. Clausen and C. L. Goodrum. No. 1,396,730; Nov. 15.
Telephone system, Machine-switching. C. L. Goodrum. No. 1,396,741; Nov. 15.
Temperature of rolls, Means for regulating the. J. G. Maxwell. (Reissue.) No. 15,227; Nov. 15.
Testing generators, Test-stand for. J. C. Schaf, Jr., and W. J. Halliday. No. 1,397,296; Nov. 15.
Testing system. R. S. Wilbur. No. 1,396,800; Nov. 15.
Theater. B. E. Togersen. No. 1,397,064; Nov. 15.
Thermometer protector and shipping-guard. C. E. Brickson. No. 1,397,412; Nov. 15.
Thermostat and similar control device. P. Dodge. No. 1,397,407; Nov. 15.
Threads, Die-head for cutting taper and straight. A. F. Brettenstein. No. 1,396,989; Nov. 15.
Threshing-machine. F. J. Wood. No. 1,397,267; Nov. 15.
Tie-plate and clamp. G. Adams. No. 1,396,868; Nov. 15.
Tile-anchoring device. J. B. Lancaster. No. 1,396,764; Nov. 15.
Tile and sewer trap. W. Walker. No. 1,397,471; Nov. 15.
Time-indicating device. W. A. Lyons. No. 1,397,319; Nov. 15.
Timer-wires, Conduit for. M. Jackson. No. 1,396,758; Nov. 15.
Timers, Spring-brush for. W. J. Spiro. No. 1,397,150; Nov. 15.
Tin, Electrolytic refining of. F. C. Mathers. No. 1,397,222; Nov. 15.
Tire-changing tool. E. B. Stadley. No. 1,397,465; Nov. 15.
Tire covers or coatings, Machine for making pneumatic-. C. Macbeth and F. Fellowes. No. 1,397,125; Nov. 15.
Tire fastener, Vehicle-. W. H. Parham. No. 1,396,778; Nov. 15.
Tire-grip-chain fastener. I. Sauerwald. No. 1,397,056; Nov. 15.
Tire-making machine. R. S. Trogner. No. 1,397,154; Nov. 15.
Tire, Pneumatic. C. F. A. Gray. No. 1,396,742; Nov. 15.
Tire, Resilient. E. B. Brookshire. No. 1,397,389; Nov. 15.
Tires, Airless tube for vehicle-. J. J. Kraly. No. 1,396,852; Nov. 15.
Tires, Antiskid attachment for elastic. W. T. Bollins. No. 1,397,182; Nov. 15.
Tires, Foot-operated pump for pneumatic. G. J. Fleure. No. 1,397,416; Nov. 15.
Tires, Grip-shoe for vehicle-. W. G. De Vane. No. 1,397,406; Nov. 15.
Tires, Process and apparatus for vulcanising. P. E. Hawkinson. No. 1,397,209; Nov. 15.
Tobacco-packer. E. Slack. No. 1,397,060; Nov. 15.
Toilet articles. F. Chrobak. No. 1,397,403; Nov. 15.
Tongue-depressor. L. D. Jacoby. No. 1,396,933; Nov. 15.
Tool, Machine-. L. E. Jolin. No. 1,397,008; Nov. 15.
Tools, Chip-catcher for. E. B. Almstrum. No. 1,396,909; Nov. 15.
Tooth, Crown-. J. L. Williams. No. 1,397,067; Nov. 15.
Toothbrush-holder. C. B. Baker. No. 1,397,350; Nov. 15.
Toy. M. Wainola. No. 1,396,902; Nov. 15.
Toy, Figure. B. Zaarnay. No. 1,397,195; Nov. 15.
Track-layer. J. Lopitsky. No. 1,396,765; Nov. 15.
Tractor. A. B. Cox. No. 1,397,314; Nov. 15.
Tractor. F. R. Hawthorne. No. 1,396,956; Nov. 15.
Tractor. W. L. Pope. No. 1,397,015; Nov. 15.
Tractor-hitch. W. L. Cannaff. No. 1,396,927; Nov. 15.
Tractors, Truck attachment for. F. A. Mitchell. No. 1,397,053; Nov. 15.
Train control, Automatic. T. W. Varley and W. C. Neim. No. 1,397,024; Nov. 15.
Train-signal, Electric. G. J. Barry. No. 1,397,351; Nov. 15.
Train-stop, Automatic. E. Sager. No. 1,397,055; Nov. 15.
Train-stop system, Automatic. M. F. Jones. No. 1,396,847; Nov. 15.
Train-stopping device, Automatic. G. W. Edwards. No. 1,397,123; Nov. 15.
Transfer-clamp. A. Nelson. No. 1,397,290; Nov. 15.
Transmission, construction, Detachable. D. M. White. No. 1,397,304; Nov. 15.
Transmission-lines, System for the equalisation of. B. Gherardi. No. 1,396,930; Nov. 15.
Transmission lock. W. Hebern and A. J. Gray. No. 1,397,420; Nov. 15.
Transmission-lock. J. M. Lea. No. 1,396,855; Nov. 15.
Transmission mechanism. L. B. Strong. No. 1,397,494; Nov. 15.
Transmission of intelligence, System for. E. O. Scriven. No. 1,396,786; Nov. 15.
Transmission, Planetary. W. F. Drew and B. V. Kervin-Kronkovsky. No. 1,396,821; Nov. 15.
Transportation system. C. C. Cox. No. 1,397,242; Nov. 15.
Trap; *See*—
Animal-trap. Rat-trap.
Trichlorethylene, Making. J. R. MacMillan. No. 1,397,134; Nov. 15.
Trolley-pole. A. W. Carrel and G. P. Steddard. No. 1,396,928; Nov. 15.
Trousers-stretcher. A. H. Doyle. No. 1,396,735; Nov. 15.
Truck, Dump-. R. A. Fontaine. No. 1,396,788; Nov. 15.
Truck, Hand-. N. Hellem. No. 1,397,098; Nov. 15.
Trucks, Compressible springs to remove same from. J. Martel. No. 1,397,437; Nov. 15.
Trucks, Tread-belt attachment for. R. H. Muscott. No. 1,397,139; Nov. 15.
Trunking system, Automatic. F. J. Truby. (Reissue.) No. 15,228; Nov. 15.
Tube and end-plate connection, Boiler-. C. S. Coleman. No. 1,397,080; Nov. 15.
Tubing, Making seamless. P. H. Brade. No. 1,396,918; Nov. 15.
Turbine and governor, Steam-. C. W. Dake. No. 1,397,086; Nov. 15.
Type-carrier. B. L. Lutz. No. 1,396,968; Nov. 15.
Typewriters, Attachment for. E. H. Reynolds and R. E. Beasard. No. 1,397,454; Nov. 15.
Typewriters, Carriage-return mechanism for. W. L. Meeschke. No. 1,396,865; Nov. 15.
Typewriting-machine. J. R. Holden. No. 1,397,166; Nov. 15.
Umbrella. L. A. Sydler. No. 1,397,469; Nov. 15.
Umbrella, Folding. P. S. Simmons and W. J. Frick. No. 1,396,898; Nov. 15.
Umbrellas, Detachable fastening for. W. H. Beebler. No. 1,397,150; Nov. 15.

Underreamer, Multiple-bit. A. L. Segelhorst. No. 1,397,114; Nov. 15.
Unreeling and tension device. P. E. Chapman. No. 1,396,728; Nov. 15.
Utensil implement. F. Samyd. No. 1,397,345; Nov. 15.
V-type internal-combustion engine. S. S. Guy. No. 1,396,744; Nov. 15.
Vacuum-pressure frame. A. T. Koppe. No. 1,396,962; Nov. 15.
Valve-cap. H. A. Wood. No. 1,397,027; Nov. 15.
Valve-controlling device. J. H. Brumbaugh. No. 1,396,808; Nov. 15.
Valve-controlling means for water-closet apparatus. W. D. Griffiths. No. 1,397,208; Nov. 15.
Valve, Conveying-. A. F. Long. No. 1,396,850; Nov. 15.
Valve, Engine injection-. A. Tacchella. No. 1,396,978; Nov. 15.
Valve-grinder. W. J. Lucks. No. 1,396,861; Nov. 15.
Valve-grinder. C. H. and H. W. Viebrock. No. 1,397,390; Nov. 15.
Valve mechanism for reversing regenerative furnaces. L. L. Knox. No. 1,397,380; Nov. 15.
Valve regulator and making same, Float or. C. F. Burroughs. No. 1,396,926; Nov. 15.
Valves, Device for grinding automobile-. F. B. Kraling. No. 1,396,763; Nov. 15.
Vanadium, Recovering. A. H. Carpenter. No. 1,396,992; Nov. 15.
Vehicle. H. R. Morwood. No. 1,397,174; Nov. 15.
Vehicle-door handle. J. G. Kaefer. No. 1,397,426; Nov. 15.
Vehicle driving mechanism, Motor-. V. V. Torbenson. No. 1,397,495; Nov. 15.
Vehicle, Two-wheeled draft-. C. Hasking. No. 1,396,754; Nov. 15.
Vehicle-wheel. C. A. Snider. No. 1,397,240; Nov. 15.
Vehicle-wheels, Emergency-spur for. H. B. Stinson. No. 1,397,186; Nov. 15.
Vehicles, Driving mechanism for motor-. V. V. Torbenson. No. 1,397,491; Nov. 15.
Vehicles, Electric drive for. F. Berger. No. 1,397,353; Nov. 15.
Vehicles, Power control for motor-. J. M. Lansden. No. 1,397,130; Nov. 15.
Velocipede, Multiple-geared. A. M. Allen. No. 1,397,068; Nov. 15.
Vending-machine. D. A. Moritz and W. J. Peterson. No. 1,396,772; Nov. 15.
Veneer-rack, Portable. R. T. Quick. No. 1,397,328; Nov. 15.
Vessels, Device for raising sunken. L. Sanchez. No. 1,396,885; Nov. 15.
Vibrator. H. J. Schaumleffel. No. 1,397,058; Nov. 15.
Violin-tailpiece, Combination. M. A. Wilson; No. 1,397,193; Nov. 15.
Vise-jaws, Equalising attachment for. W. S. Duwelius. No. 1,397,409; Nov. 15.
Vulcanising-mold. E. F. Nelson. No. 1,397,447; Nov. 15.
Wagon, Dumping-. D. Birstler. No. 1,397,355; Nov. 15.
Walls, partitions, roofs, &c., Structural framework for. P. F. Solan and H. S. Balliet. No. 1,397,301; Nov. 15.
Washing-machine. E. H. Dolder. No. 1,397,270; Nov. 15.
Watch-movement. J. Risek. No. 1,396,879; Nov. 15.
Water, Apparatus for purifying. A. J. Reed. No. 1,397,452; Nov. 15.
Water-heater. E. T. Curran. No. 1,397,268; Nov. 15.
Wearing-apparel. F. Wiberley. No. 1,396,790; Nov. 15.
Well-drill wrench. W. H. Ellinger. No. 1,397,044; Nov. 15.
Wheel; *See*—
Buffing or polishing wheel. Steering-wheel.
Resilient wheel. Vehicle-wheel.
Spring-wheel.
Wheel-brake. A. G. Herreshoff and A. Lucand. No. 1,396,958; Nov. 15.
Whistle. H. J. Carmody. No. 1,397,263; Nov. 15.
Winder-shaft. J. H. Baker. No. 1,397,310; Nov. 15.
Winding implement. F. E. Townsend. No. 1,397,022; Nov. 15.
Windmill. B. W. Boston. No. 1,397,031; Nov. 15.
Window. J. V. Sugg. No. 1,397,117; Nov. 15.
Window frame and sash structure. G. A. Martin. No. 1,397,221; Nov. 15.
Window-operating mechanism. L. M. Phelps. No. 1,397,112; Nov. 15.
Windows, Counterbalance mechanism for vehicle-. J. D. Lawrence. No. 1,397,256; Nov. 15.
Windshield, Vehicle-. W. Rosenblatt and J. J. Simon. No. 1,397,234; Nov. 15.
Windshields, Clear-vision device for. W. M. Christopher. No. 1,396,729; Nov. 15.
Wire-glass, Machine for and method of making corrugated. A. Shuman. No. 1,397,149; Nov. 15.
Wire stitching or stapling machines, Work-supporting means for. D. A. Flavell. No. 1,396,950; Nov. 15.
Wood or other plastic bodies, Manufacture of artificial. H. Plauson. No. 1,397,144; Nov. 15.
Wood, Treating. A. H. Twombly, A. P. Ludin, and R. A. Marr. No. 1,396,899; Nov. 15.
Wrench. H. Butt. No. 1,397,262; Nov. 15.
Wrench. T. S. Hose. No. 1,397,214; Nov. 15.
Wrench. H. Smith, Jr. No. 1,397,462; Nov. 15.
Wrench. C. E. Vandenberg. No. 1,396,981; Nov. 15.
Wrench. O. A. Ward. No. 1,396,982; Nov. 15.
X-ray machines, Switch mechanism for. W. C. Dee. No. 1,396,815; Nov. 15.

ALPHABETICAL LIST OF DESIGNS.

Agitating machine, Liquid-. C. A. Rietz. No. 59,683; Nov. 15.
Astral board. M. Jacobson. No. 59,657; Nov. 15.
Atomizer-head. T. A. De Vilbiss. No. 59,624; Nov. 15.
Automobiles, Signal for. L. M. Durney and H. J. Montgomery. No. 59,627; Nov. 15.
Badge. T. F. Miller. No. 59,668; Nov. 15.
Badge, button, or pin. A. P. Daniel. No. 59,623; Nov. 15.
Basket. R. Walter. Nos. 59,695–6; Nov. 15.
Basket. R. and R. P., Jr., Walter. No. 59,697; Nov. 15.
Battery-tester. J. K. Elderkin. No. 59,629; Nov. 15.
Beverage-dispenser. F. W. and C. L. Holderle. No. 59,652; Nov. 15.
Boiler unit, Finned tubular. W. L. Six. No. 59,690; Nov. 15.
Bottle-cap remover, Milk-. E. H. Foote. No. 59,645; Nov. 15.
Bottle protecting and carrying device. H. Lauzon. No. 59,662; Nov. 15.
Buckle. L. H. Fisbel. Nos. 59,633–5; Nov. 15.
Bulb, Suction-. A. E. Fraass. No. 59,646; Nov. 15.
Butter-cutting cage. F. Sprader. No. 59,691; Nov. 15.
Cabinet. L. B. Parker. No. 59,676; Nov. 15.
Candle-plate. M. Klein. No. 59,661; Nov. 15.
Candy known as bonny bonnet pops, Paper-wrapped. W. Steel. No. 59,692; Nov. 15.
Clip. C. H. Patten and R. W. Otis. No. 59,677; Nov. 15.
Cloth. C. O. Mueller. No. 59,671; Nov. 15.
Clothes-hanger. J. C. Shannon. No. 59,688; Nov. 15.
Dental-equipment stand. G. D. Heck. Nos. 59,649–50; Nov. 15.
Display-stand. H. L. Beach. No. 29,618; Nov. 18.
Doll. F. L. Miller, Jr. Nos. 59,666–7; Nov. 15.
Dough-rounder. T. H. Clark. No. 59,621; Nov. 15.
Electric drill. A. H. Petersen. No. 59,678; Nov. 15.
Emblem, badge, stickpin, or similar article. H. G. Essayan. No. 59,631; Nov. 15.
Funnel. G. Gregory. No. 59,648; Nov. 15.
Glass article of manufacture, Ornamentation for cut-. A. F. Priestley. No. 59,681; Nov. 15.
Glove. E. Pevny. No. 59,679; Nov. 15.
Goblet. T. C. Heisey. No. 59,651; Nov. 15.
Grates, &c., Heating-element section for electrical. S. D. Robinson. No. 59,685; Nov. 15.
Hammock. B. B. Englander. No. 59,630; Nov. 15.
Jewelry—namely, a pin, brooch, &c., Article of. H. W. Fishel. Nos. 59,636–44; Nov. 15.
Lighting-fixtures, Back plate of a wall-bracket for. H. Cohn. No. 59,622; Nov. 22.
Liquid-dispenser, Container for a. R. Mueller. No. 59,672; Nov. 15.
Marker. A. J. Dunlap. No. 59,626; Nov. 15.
Medallion. A. J. Laws. No. 59,663; Nov. 15.
Metal rack. H. L. Beach. No. 59,617; Nov. 15.
Musical instruments, Bridge for string. E. W. Plate. No. 59,680; Nov. 15.
Paper-weight. C. D. Hudson. No. 59,656; Nov. 15.
Partitions, &c., in showcases, Clamp for holding. J. D. Moser. No. 59,670; Nov. 15.
Rectifier. J. K. Elderkin. No. 59,628; Nov. 15.
Ribbon-clasp. S. Bruner. No. 59,620; Nov. 15.
Ring. J. W. Mayer. No. 59,665; Nov. 15.
Ring, Finger-. A. H. Ulbrich. No. 59,694; Nov. 15.
Shoe, Vamp of a. I. J. Kander. No. 59,658; Nov. 15.
Sign. W. M. Harnstein. No. 59,654; Nov. 15.
Sign, Highway-. C. R. Wilson. No. 59,698; Nov. 15.
Sign, Highway advertising and directing. R. Tenny. No. 59,693; Nov. 15.
Sound-amplifier. C. J. Dodge. No. 59,625; Nov. 15.
Spark-plug extension. E. H. Schweering. No. 59,686; Nov. 15.
Spoon-holder. J. E. Feiertag. No. 59,632; Nov. 15.
Standard. A. Liskowacki. No. 59,664; Nov. 15.
Sundae-dish. A. E. Schlbach. No. 59,687; Nov. 15.
Talking-machine cabinet or casing. A. Morelle. No. 59,669; Nov. 15.
Tire. C. G. Hoover. No. 59,653; Nov. 15.
Tire, Automobile-. J. Hotchkiss. No. 59,655; Nov. 15.
Tire-casing. G. W. Odell. No. 59,673; Nov. 15.
Tire, Cushion-. A. A. Robb. No. 59,684; Nov. 15.
Tire, Non-skid. W. A. Brubaker. No. 59,619; Nov. 15.
Tire-tread. G. W. Odell. No. 59,674; Nov. 15.
Tire-tread. E. R. Simms. No. 59,689; Nov. 15.
Toothbrush, paste, and glass holder, Combination. K. Frost and O. Jessl. No. 59,647; Nov. 15.
Toy. J. P. Orwit. No. 59,675; Nov. 15.
Toy table. C. J. Kern. No. 59,660; Nov. 15.
Toy, Teeter. C. J. Kern. No. 59,659; Nov. 15.
Trace-carrier. J. Reichert. No. 59,682; Nov. 15.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Automobile accessories. United Auto Stores. No. 148,551; Nov. 15.
Automobile-bumpers. Ramspring Bumper Co. No. 148,519; Nov. 15.
Automobile, furniture, &c., polishes. H. A. Ertley. No. 148,398; Nov. 15.
Bearing metals. A. C. Ryan. No. 148,528; Nov. 15.
Bed-springs or spring-mattresses for beds. Western Wire Products Co. No. 148,625; Nov. 15.
Beverage and flavoring for same, Non-alcoholic maltless. Eng-Shell Company Inc. No. 148,576; Nov. 15.
Beverage, Cereal malt. Independent Breweries Company. No. 148,443; Nov. 15.
Beverage, Non-alcoholic cereal. Berghoff Brewing Ass'n. No. 148,358; Nov. 15.
Beverage, Non-alcoholic maltless. Hurty-Peck & Company. No. 148,584; Nov. 15.
Beverage, Non-alcoholic, non-cereal, maltless. Hootch Mfg. Co. No. 148,439; Nov. 15.
Beverages and syrups for making same, Non-alcoholic, non-cereal. Goldelle Ginger Ale Co. No. 148,418; Nov. 15.
Beverages and syrups, Non-alcoholic. W. C. Hathaway. No. 148,428; Nov. 15.
Beverages, Non-alcoholic cereal. Jackson Brewing Company. No. 148,451; Nov. 15.
Blank forms composing an efficiency-service system for dentists. G. A. Graham. No. 148,420; Nov. 15.
Bleaching-powder, soda-ash, soda crystals, and bicarbonates. The United Alkali Company Limited. No. 20,027; Nov. 15; renewed Aug. 11, 1921.
Blouses, pajamas, and overalls. E. Byrnes. No. 148,369; Nov. 15.
Bluing, Laundry. Tip Top Bluing Works. No. 148,545; Nov. 15.
Boutonnière, badge, insignia, &c. A. B. Guerin. No. 148,424; Nov. 15.
Books and pamphlets in series, Printed. E. Nieman. No. 148,495; Nov. 15.
Books, Printed. Dorrance & Company. No. 148,392; Nov. 15.
Boots and shoes, Leather. Carlisle Shoe Co. No. 148,371; Nov. 15.
Boots and shoes, Leather. F. M. Hoyt Shoe Company. No. 148,441; Nov. 15.
Bottles, ice-bags, invalid-cushions, back-rests, &c., Hot-water. Reid Bros. No. 148,520; Nov. 15.
Bouillon cubes, vegetable and beef extracts in solid and fluid forms, &c., and mayonnaise salad-dressing. Pure Food Factory "Hanea." No. 148,515; Nov. 15.
Brushes. Pittsburgh Plate Glass Company, Rennous-Kleisle Division. Nos. 148,507–8; Nov. 15.
Brushes and brush-holders therefor, Dynamo and electric-motor. Robert Harding. No. 148,581; Nov. 15.
Brushes and whisk-brooms, Toilet and paint. Celluloid Company. Nos. 148,373–4; Nov. 15.
Brushes, Shaving-. The James L. Erskine Co. No. 148,575; Nov. 15.
Brushes, Shaving-. Geo. R. Gibson Co. No. 148,413; Nov. 15.
Butter. M. M. Gasser Co. No. 148,579; Nov. 15.
Candies. C. W. Brown. No. 148,572; Nov. 15.
Candies. Pocahontas Candy Co. No. 148,511; Nov. 15.
Candies and chocolates. J. G. McDonald Chocolate Co. No. 148,470; Nov. 15.
Candy. Curtiss Candy Co. Nos. 148,384–5; Nov. 15.
Candy. Max Glick Co. No. 148,415; Nov. 15.
Candy. C. May. No. 148,476; Nov. 15.
Candy. Pirika Chocolate Co. No. 148,508; Nov. 15.
Candy. Tru-Blue Biscuit Co. No. 148,547; Nov. 15.
Cane-molasses for stock-feeding purposes. Oelerich & Berry Co. No. 148,498; Nov. 15.
Canned sardines. Seacoast Canning Co. No. 148,532; Nov. 15.
Canned vegetables. Inderrieden Canning Co. No. 148,585; Nov. 15.
Cards, Playing-. The United States Playing Card Company. Nos. 148,607–24; Nov. 15.
Carpets and rugs. Home Weaving Works. No. 148,438; Nov. 15.
Cartridge-fuses, fuse-plugs, dynamo and motor brushes. Cooley Mfg. Co. No. 148,381; Nov. 15.
Certain products of pure iron. American Rolling Mill Company. No. 148,346; Nov. 15.
Charms for personal wear. Potter & Buffinton Co. No. 148,513; Nov. 15.
Chemical preparation used as a preventive of offsetting and smudging of printing. L. L. Farkas. No. 148,402; Nov. 15.
Cloth and washable-fabric suits, overcoats, and trousers. E. Byrnes. No. 148,370; Nov. 15.
Cloths for use on windshields of vehicles, &c., to prevent the accumulation of rain and moisture, Prepared. B. J. S. Specialty Company. No. 148,360; Nov. 15.
Clothing. Branigan, Green & Co. No. 148,364; Nov. 15.
Clothing. Kirschenbaum Corporation, The. No. 148,459; Nov. 15.
Clothing. Liberty Manufacturing Company. No. 148,464; Nov. 15.
Clothing. Manes & Oppenheimer. No. 148,475; Nov. 15.
Clothing. United Turkey Red Company. No. 148,553; Nov. 15.
Coal. Loony Creek Coal Company. Nos. 148,466–7; Nov. 15.
Coats, vests, pants, overcoats, Men's. Rosenberg Bros. & Co. No. 148,525; Nov. 15.
Coffee. J. H. Bailey. No. 148,568; Nov. 15.
Coffee, Substitute for. L. Donnet. No. 148,391; Nov. 15.
Coffee substitute and coffee and this substitute blended. D. J. O'Shea. No. 148,490; Nov. 15.
Construction material. N. V. Internationale Mineralen Compagnie. No. 148,497; Nov. 15.
Copying and duplicating apparatus. J. Pluckrose. No. 148,509; Nov. 15.
Corsets and brassières. American Lady Corset Company. No. 148,345; Nov. 15.
Corsets, brassières, corset-covers, and waists. Kops Brothers. No. 148,462; Nov. 15.
Cotton dress materials in the piece, Washable. M. E. Smith & Co. No. 148,533; Nov. 15.
Cotton piece goods. Edson Moore & Company. No. 148,396; Nov. 15.
Cotton piece goods. Rafael Del Castillo & Co. No. 148,386; Nov. 15.
Cotton piece goods. United Turkey Red Company. No. 148,554; Nov. 15.
Cotton piece goods. Wyman Partridge & Co. No. 148,561; Nov. 15.
Cotton sheeting in the piece. Taylor, Clapp & Beall. No. 148,544; Nov. 15.
Cuffs, Negligee and outing shirt. Nu-Kuff Co. No. 148,496; Nov. 15.
Dental instruments. Cleveland Dental Manufacturing Company. No. 148,380; Nov. 15.
Dentifrice. Saveall Dentifrice Company. No. 148,581; Nov. 15.
Diestocks and hand pipe-cutters and parts thereof, &c. Borden Company. No. 148,363; Nov. 15.
Dresses. Kohn, Leinhardt & Simon. No. 148,460; Nov. 15.
Dresses and costumes. Pansy Waist Co. No. 148,504; Nov. 15.
Dresses, cloaks, and suits. Rosenthal & Targoff. No. 148,527; Nov. 15.
Dressing-sacks, negligées, undergarments. K. A. Feare & Co. No. 148,404; Nov. 15.
Driers, filters, separators, and unloaders, conveyers, elevators, and mixers therefor, Centrifugal. S. S. Hepworth Co. No. 148,582; Nov. 15.
Dyestuffs. Geigy Company, Inc. No. 148,580; Nov. 15.
Egg substitute. J. S. Ziegler Company. No. 148,562; Nov. 15.
Electrical apparatus. Monarch Engineering Company. No. 148,482; Nov. 15.
Electric-battery testers. Forest Electric Co. No. 148,408; Nov. 15.
Electric tools, hoists, and circuit-breakers. Chicago Pneumatic Tool Company. No. 130,575; Nov. 15.
Embossing-machine and cutting and punching dies. Praemanx Corporation of America. No. 148,514; Nov. 15.
Eraser for typists' use. Argus Manufacturing Company. No. 148,566; Nov. 15.
Extracts and flavorings, Food. Brendlinger Company. No. 148,365; Nov. 15.
Eye waters or lotions and antiseptic and healing ointments. C. E. Cessna. No. 148,375; Nov. 15.
Fasteners and parts thereof. G. W. J. Murphy Company. Nos. 148,486–7; Nov. 15.
Finger-rings and other articles of jewelry of precious metal. Phoel & Schaller. No. 148,507; Nov. 15.
Fire-hydrants, indicator-posts, certain valves. Kennedy Valve Mfg. Co. No. 148,458; Nov. 15.
Fishing-rods, Guides and tips for. Mitchell-Bissell Company. No. 148,481; Nov. 15.
Flavoring extract for imparting a maple flavor, Food-. T. Henderson. No. 148,432; Nov. 15.
Flour, Wheat-. Fisher Flouring Mills Company. No. 148,406; Nov. 15.
Flour, Wheat-. Great West Mill & Elevator Co. Nos. 148,421–2; Nov. 15.
Flour, Wheat-. S. W. Hershey. No. 148,433; Nov. 15.
Flour, Wheat-. Lyon & Greenleaf Co. No. 148,592; Nov. 15.
Flour, Wheat-. Poage-Wall Milling Company. No. 148,510; Nov. 15.
Fullers' and fossil earths, crude tar. Thos. Hubbuck & Son. No. 148,442; Nov. 15.
Gasolene. Lamson Oil Co., Inc. No. 148,590; Nov. 15.
Garments, Sleeping-. E-Z Waist Company. No. 148,401; Nov. 15.

Gum, Chewing. H. C. Faust. No. 148,403; Nov. 15.
Hair-nets. New York Merchandise Company. Nos. 148,492–3; Nov. 15.
Hair restorer, Gray-. Removo Company. No. 148,522; Nov. 15.
Hats and caps. E. Byrnes. No. 148,368; Nov. 15.
Hats and caps for men, women, and children. Etchison Hat Company. No. 148,400; Nov. 15.
Hats, Trimmed and tailored. Beerman-Fortgang-Doman. No. 148,354; Nov. 15.
Hog-cholera medicine. M. Bodendick. No. 148,362; Nov. 15.
Hose. B. F. Goodrich Company. No. 148,419; Nov. 15.
Hosiery. E. Byrnes. No. 148,419; Nov. 15.
Hosiery. Wolfinger Knitting Mills. No. 148,560; Nov. 15.
Hosiery. Zeitel & Zuckerbraun. No. 148,563; Nov. 15.
Ice-cream. Puritan Ice Cream Co. No. 148,516; Nov. 15.
Ice-cream. Remar Company. No. 148,521; Nov. 15.
Impregnated or coated woven fabrics. Western Cartridge Company. No. 148,557; Nov. 15.
Inks and ribbons and carbon-papers. Polygon Ink Company. No. 148,512; Nov. 15.
Insecticide powders and liquids, disinfectants. K. Kovacs. No. 148,461; Nov. 15.
Insecticides. St. Louis Insecticide. Nos. 148,540–1; Nov. 15.
Insect-powders. McCormick & Co. No. 148,469; Nov. 15.
Iron in powder and plastic form for certain purposes, Comminuted. Smooth-On Manufacturing Company. No. 148,534; Nov. 15.
Knitted and woven bloomers, vests, and union-suits. L. Bing. No. 148,359; Nov. 15.
Laces, veils, nets, tricot and millanese cloth in the piece. H. S. Hall & Co. No. 148,426; Nov. 15.
Lathes. Davis Machine Tool Company, Inc. No. 148,574; Nov. 15.
Laxative compounds. A. A. Gardos. No. 148,411; Nov. 15.
Leather, Sole-. Jos. Muslmer & Co. No. 148,488; Nov. 15.
Lenses, Optical. Titmus Optical Co. No. 148,546; Nov. 15.
Lithopone, (a manufactured product which is used as a base in the manufacture of paints.) Glidden Company, The. No. 148,416; Nov. 15.
Lubricating-greases. Gearo Mfg. Co. No. 148,412; Nov. 15.
Magazine, Monthly. N. T. Baker. No. 148,351; Nov. 15.
Magazine published and sold monthly, Title of. M. Zobel. No. 148,564; Nov. 15.
Magazines, Monthly. Pacific Drug Review. No. 148,502; Nov. 15.
Malt extracts, Non-alcoholic. Malt-Diastase Company. No. 148,474; Nov. 15.
Malt extracts for food. S. H. Morris. No. 148,483; Nov. 15.
Mashers, Clay and potato. C. E. Jenkins. No. 148,453; Nov. 15.
Mattresses, pillows, box-springs. International Bedding Co., Inc. Nos. 148,448–9; Nov. 15.
Medical and surgical appliances. H. L. De Zeng. No. 148,575; Nov. 15.
Medical preparation for rheumatism. Co-Rhu-Cu Medicine Company. No. 148,382; Nov. 15.
Medicinal preparation. W. E. Dayton. No. 148,387; Nov. 15.
Medicinal preparation for headache, &c. O. B. Strub. No. 148,543; Nov. 15.
Medicinal preparations. Mrs. G. M. Causey. No. 148,372; Nov. 15.
Medicinal preparations for family use and live stock. Bickmore Company, The. No. 148,571; Nov. 15.
Medicinal powder. H. C. Trumbower. No. 148,548; Nov. 15.
Mercury used in dentistry. Hoover & Strong, Inc. No. 148,440; Nov. 15.
Metal-pipe fittings. American Steel Foundries. No. 148,347; Nov. 15.
Metal rods, Channel-shaped. Beckett, Laycock & Watkinson. No. 148,353; Nov. 15.
Metal-working presses. Bethlehem Steel Company. No. 148,570; Nov. 15.
Milk products, ice-creams, &c. Frozpure Milk Products Co. No. 148,409; Nov. 15.
Needles, bodkins, &c. William Hall & Co. No. 148,427; Nov. 15.
Newspaper-columns, For use on. E. A. Moss. No. 148,484; Nov. 15.
Newspaper, Daily. New England Newspaper Publishing Company. No. 148,491; Nov. 15.
Noodles. A. Benz, Jr. No. 148,569; Nov. 15.
Oils and waxes, &c. Katzenbach & Bullock Co. No. 148,456; Nov. 15.
Oils, Lubricating-. Ford Auto Supply Company. No. 148,407; Nov. 15.
Oils, Lubricating-. Radium Oil Company. No. 148,518; Nov. 15.
Oil, Olive-. Geo. Wolff & Co. No. 148,559; Nov. 15.
Overalls and work-shirts. Standard Overall Company. No. 148,538; Nov. 15.
Packing. Federal Rubber Company. No. 148,405; Nov. 15.
Packing and hose, Asbestos. Dick's Asbestos Company. No. 148,389; Nov. 15.
Packing, composition sheet-. Pacific Coast Rubber & Supply Co. No. 148,501; Nov. 15.
Paint enamel. Wadsworth-Howland Company. No. 148,556; Nov. 15.
Paint enamels, paste and ready-mixed paints, &c. Unkefer Varnish Company. No. 148,555; Nov. 15.
Paints. Industrial Paint Company. Nos. 148,446–7; Nov. 15.
Paints and colors, paint-pigments, and varnishes. C. A. Woolsey Paint & Color Company. Nos. 148,627–8; Nov. 15.
Paints, enamels, colors, and polishes. Patek Brothers. No. 148,505; Nov. 15.
Paints, enamel paints, and flat wall-finishes, Ready-mixed. Keystone Albumen & Paint Company. No. 148,536; Nov. 15.
Paints, enamels, varnishes, and stains. The American Turpentine Company. No. 148,567; Nov. 15.
Paints in oil, paint enamels, varnishes, &c. Beaver Varnish Company. No. 148,332; Nov. 15.
Pamphlets and booklets. International Company. No. 148,450; Nov. 15.
Papers, Writing, printing, &c. Albemarle Paper Mfg. Co. No. 148,383; Nov. 15.
Paste and dry paints, varnishes, primers, &c. Ditzler Color Company. No. 148,390; Nov. 15.
Patches, Vulcanizing-. Magic Auto Devices Company. No. 148,472; Nov. 15.
Pens, Stylographic. Sais Brothers. No. 148,530; Nov. 15.
Phonograph-records. Emerson Phonograph Company. No. 148,397; Nov. 15.
Photographs. C. B. Johnson. No. 148,454; Nov. 15.
Phonographs, talking-machines, and records. Mutual Trading Company. No. 148,489; Nov. 15.
Pianos and player-pianos. Bjur Bros. Incorporated. No. 148,361; Nov. 15.
Piece goods of cotton and muslin. E. Heller. No. 148,430; Nov. 15.
Piece goods of cotton, silk, linen, mixtures of cotton and silk and linen and silk. Jacob Miller Sons & Co. No. 148,594; Nov. 15.
Pile fabrics with cut, looped, or curled pile of certain named materials, Silk cotton, mohair, &c. A. Hoenigsberger. No. 148,437; Nov. 15.
Pipe and pipe-couplings, Iron and steel. Youngstown Sheet & Tube Company. No. 148,629; Nov. 15.
Planers. The Turbine Air Tool Company. No. 148,606; Nov. 15.
Poultry medicine. W. T. Hadley. No. 148,425; Nov. 15.
Poultry, Dressed. George F. Hinrichs, Inc. No. 148,434; Nov. 15.
Powders, Cold-creamed. La Meda Manufacturing Company. No. 148,589; Nov. 15.
Powders for confectioners' use, flavoring extracts, pie-fillings, syrups for making candies. Henry H. Ottens Mfg. Co. Inc. No. 148,500; Nov. 15.
Precious stones. L. Heller & Son. No. 148,431; Nov. 15.
Preparation for use in tanning hides and leather. Keystone Albumin & Paint Company. No. 148,587; Nov. 15.
Pumps, Machine-. Hodgson Pump Company. No. 148,436; Nov. 15.
Pus and bed pans, douche-pan, &c., White-enamel. United Drug Company. No. 148,552; Nov. 15.
Raincoats. H. Rosenberg. No. 148,526; Nov. 15.
Remedy for stomach disorders. Stom-A-Lax Medicine Co. No. 148,542; Nov. 15.
Retort for producing gas, tar, and creosote from straw, &c. Frank Pfeifer and Bernard B. Pfeifer. No. 148,506; Nov. 15.
Roasting food products, Machines for. The Hobart Manufacturing Company. No. 148,435; Nov. 15.
Roofing, Prepared. Chatfield Manufacturing Company. No. 148,376; Nov. 15.
Rope, twine, and cordage. Columbian Rope Company. No. 148,573; Nov. 15.
Rubber sponges. G. W. Beldam. No. 148,355; Nov. 15.
Saws, Teeth for stone-. W. F. Meyers Company. No. 148,593; Nov. 15.
Scissors. Rikers Bros. No. 148,524; Nov. 15.
Shirts. H. Saltzman. No. 148,529; Nov. 15.
Shirts, Men's dress-. Lord & Taylor. No. 148,468; Nov. 15.
Shoes and slippers. William Breilich & Sons. No. 148,423; Nov. 15.
Shoes, Leather. Craddock-Terry Company. No. 148,383; Nov. 15.
Shoes, slippers, and moccasins, Infants' and children's. Locke Shoe Company. No. 148,465; Nov. 15.
Silk and jersey in the piece, Mixture of. Jacob Miller Sons & Co. No. 148,480; Nov. 15.
Silk, cotton, &c., piece goods. George J. Quinn & Company. No. 148,517; Nov. 15.
Silk piece goods. Julius Kayser & Co. No. 148,457; Nov. 15.
Silk piece goods, Broad-. Duplan Silk Corporation. Nos. 148,393–4; Nov. 15.
Silver-plated flat and hollow ware. Simeon, L., and George H. Rogers Company. No. 148,599; Nov. 15.
Silverware and articles of jewelry, Sterling, plated, flat, and hollow. Bernard Rice's Sons. No. 148,523; Nov. 15.
Soap and soap tablets. P. P. Sly. No. 148,604; Nov. 15.
Soap paste. Magnesium Products Co. Inc. No. 148,478; Nov. 15.
Soap, Toilet. James S. Kirk & Company. No. 148,588; Nov. 15.
Soaps. R. R. Frasier. No. 148,410; Nov. 15.
Soaps. F. A. Meighan. No. 148,477; Nov. 15.
Socks, Men's. I. Michelsohn. No. 148,478; Nov. 15.

Snap-fasteners. De Long Hook and Eye Company. No. 148,388; Nov. 15.
Snap-fasteners. Meentwin Company. No. 148,485; Nov. 15.
Snap-fasteners. New York Merchandise Company. No. 148,494; Nov. 15.
Starters, motors, dynamos, and rail-bases therefor. Crocker-Wheeler Company. No. 148,444; Nov. 15.
Steel-wool. American Steel Wool Mfg. Co. No. 148,348; Nov. 15.
Suits. Sonneborn Brothers. No. 148,536; Nov. 15.
Tablets for medicinal use. Buttermilk. Parke, Davis & Company. No. 148,596; Nov. 15.
Talking-machines and pianos. G. M. Gilbert. No. 148,414; Nov. 15.
Talking-machines and parts thereof. C. J. Willemborg, Jr. No. 148,558; Nov. 15.
Tapestry and needle-point, Hand-woven. Edgewater Tapestry Looms. No. 148,396; Nov. 15.
Taxicabs and pleasure-automobiles. W. B. Cole. No. 148,366; Nov. 15.
Thread and yarn. H. H. Locke & Company, Inc. No. 148,591; Nov. 15.
Tires and tubes, Rubber. Amalgamated Tire Stores Corporation. No. 148,344; Nov. 15.
Tires, cushion, inner tubes, tire-patches. McLean Tire & Rubber Company. No. 148,471; Nov. 15.
Tires constructed of rubber and fabric, Automobile. E. A. Jaquine. No. 148,452; Nov. 15.
Tires and inner tubes, Pneumatic vehicle. The India Tire and Rubber Company. No. 148,445; Nov. 15.
Tires, Rubber. S. H. Goldberg. No. 148,417; Nov. 15.
Tire-repair equipment. Haywood Tire & Equipment Company. No. 148,420; Nov. 15.
Toilet preparations. Associated Merchandising Corporation. No. 148,349; Nov. 15.
Toilet preparations. S. L. Tuteck. No. 148,377; Nov. 15.
Tongues, Cured and smoked. M. Weinsteins. No. 148,626; Nov. 15.
Tonic, General. M. Kane & Co. No. 148,455; Nov. 15.
Tonic, General. Dr. B. E. Neal Medicine Company. No. 148,490; Nov. 15.
Tools for metal-working machinery. J. Michelson. No. 148,479; Nov. 15.
Toy sleds, fishing-tackle, and toy coaster-wagons. Stevell-Paterson Hardware Co. No. 148,605; Nov. 15.
Tractors. Société Lyonnaise d'Industrie Mecanique. No. 148,535; Nov. 15.
Treatment for piles and hemorrhoids. H. P. Clearwater. No. 148,379; Nov. 15.
Trucks, Floor-. Equipment Manufacturing Company. No. 148,398; Nov. 15.
Trucks, Motor-. Atlas Truck Corporation. No. 148,350; Nov. 15.
Trusses, including pads. The Akron Truss Company. No. 148,585; Nov. 15.
Typewriting-machines and parts. Underwood Typewriter Co. No. 148,550; Nov. 15.
Uprights, grand, player, and reproducing pianos. The Packard Piano Company. No. 148,503; Nov. 15.
Vegetables. Southern Produce Company. No. 148,537; Nov. 15.
Velvets in the piece. Bennett and Aspden Company. Nos. 148,356–7; Nov. 15.
Vinegar. Hood River Apple Vinegar Co. No. 148,583; Nov. 15.
Watches, watchcases, watch dials and movements. Ed. Kummer Limited. No. 148,463; Nov. 15.
Water, Natural mineral. State of New York. No. 148,530; Nov. 15.
Welding and brazing rods of certain metals and metallic electric welding-rods. Morey Flux & Chemical Company. No. 148,595; Nov. 15.
Windows and showcases, Electric display-signs for. E. & B. Sign Co. Inc. No. 148,603; Nov. 15.
Windshield-cleaners, squeegee type. The Folberth Auto Specialty Co. No. 148,578; Nov. 15.
Wire screen-cloth, Woven-. W. S. Tyler Company. No. 148,549; Nov. 15.
Woolen cloth in the piece. Rudolph Schreiber, Inc. No. 148,600; Nov. 15.
Worsted cloths in the piece. Rudolph Schreiber, Inc. No. 148,601; Nov. 15.
Woolen cloth in the piece. Rudolph Schreiber, Inc. No. 148,602; Nov. 15.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Alcohol, Bathing. C. D. Smith Drug Company. No. 152,295; Nov. 15.
Alcohol, Medicated. Ost Apothecary, Inc. No. 152,270; Nov. 15.
Arch-braces. Geo. H. Jung Co. No. 146,460; Nov. 15.
Automobile and furniture polish. K. Schmitz. No. 152,283; Nov. 15.
Automobile ignition and signaling circuits, Detectors for indicating the condition of. E. F. Potter. No. 147,940; Nov. 15.
Babbitt metal, solder, brass, &c. Great Western Smelting & Refining Company. No. 149,281; Nov. 15.
Bacon, sausage, pigs' feet, &c. Geo. A. Hormel & Co. No. 148,337; Nov. 15.
Balls, Golf-. John Wanamaker, New York. No. 152,271; Nov. 15.
Baseballs. Thos. E. Wilson & Co. No. 152,272; Nov. 15.
Beverage and powder for making same, Non-alcoholic. "Pep" Laboratory. No. 148,454; Nov. 15.
Blankets and flannel piece goods, Cotton. Hicks-Fuller Company. No. 151,163; Nov. 15.
Bolts, Expansion-. R. S. Peirce. No. 148,085; Nov. 15.
Books, legal forms, and blanks, &c., Blank and record. Klopp & Bartlett Company. No. 150,239; Nov. 15.
Books, Note and memorandum. Wilson-Jones Loose Leaf Company. No. 151,696; Nov. 15.
Brooms. Windsor Broom Company. No. 150,040; Nov. 15.
Brushes, Hair, nail, &c. Tuskeloid Company. No. 140,689; Nov. 15.
Brushes, Hair, tooth, hat, &c. Tuskeloid Company. No. 140,694; Nov. 15.
Brushes, Tooth, nail, hand, bath. Kaufman-Straus Co. No. 140,657; Nov. 15.
Bullets, Non-fouling. Western Cartridge Company. Nos. 148,778–9; Nov. 15.
Butts, hinges, latches, &c. Stanley Works. No. 141,063; Nov. 15.
Cabinets for towels, corrugated-paper boxes, &c., Dispensing-. National Paper Products Company. No. 138,587; Nov. 15.
Canned goods, candies, jams, nuts, &c. Channel Commercial Co. No. 147,607; Nov. 15.
Cards, Playing-. United States Playing Card Company. No. 151,118; Nov. 15.
Cards, Playing-. United States Playing Card Company. No. 151,119; Nov. 15.
Cartridges, Metallic. Peters Cartridge Company. No. 150,262; Nov. 15.
Cigarette and cigar cases and snuff-boxes. Cartier, Inc. No. 144,993; Nov. 15.
Cigarette-cases. Inlaid Co. No. 144,897; Nov. 15.
Coffee. Schon, Stevenson and Company. No. 118,790; Nov. 15.
Cotton piece goods, Woven. Neuss, Hesslein & Co. No. 152,438; Nov. 15.
Cough-syrup. L. Cauffman. No. 151,709; Nov. 15.
Cranes. Colby Steel and Engineering Co. No. 142,774; Nov. 15.
Creams, Lip and face. R. Fischer. No. 151,538; Nov. 15.
Creams, lotions, cuticle-removers, cold, &c. L. Bader. No. 149,314; Nov. 15.
Dental apparatus and supplies. Claudius Ash, Sons & Company. No. 147,498; Nov. 15.
Dental floss. S. M. Sharpe. No. 146,240; Nov. 15.
Dental, medical, and surgical appliances. A. E. Fraass. No. 144,072; Nov. 15.
Diagnostic instruments for measuring the rate of oxygen consumption. H. M. Jones. No. 140,997; Nov. 15.
Dice, Rotatable. Spinim Co. No. 153,115; Nov. 15.
Dish-washing machines. Sanitary Dish Washing Machine Company. No. 136,814; Nov. 15.
Disinfectant, insecticide, and fungicide. Home Products, Inc. No. 152,560; Nov. 15.
Dolls. George Borgfeldt & Co. Nos. 153,063–4; Nov. 15.
Dolls. A. Strauss & Co. No. 153,265; Nov. 15.
Duck, canvas, and drilling piece goods. Unity Cotton Mills. No. 144,005; Nov. 15.
Duplicating machines and attachments therefor. J. B. Hurwitz. No. 137,615; Nov. 15.
Embalming fluid. C. H. Easterday. No. 152,674; Nov. 15.
Enamels, Automobile-. O'Brien Varnish Company. No. 152,581; Nov. 15.
Envelops. Duplex Envelope Company. No. 147,965; Nov. 15.
Envelops. Tension Envelope Company. No. 152,691; Nov. 15.
Fiber cops and quills. Kronyte Mfg. Corporation. No. 152,895; Nov. 15.
Fire-crackers. C. Scardone. No. 146,243; Nov. 15.
Fire-extinguishing liquid. S. H. Brooks. No. 151,697; Nov. 15.
Flasks, Vacuum-. Arthur Nickelsburg Limited. No. 153,100; Nov. 15.
Flat-wire and cutlery of base metal, Table. Premier Cutlery, Inc. Nos. 148,034–5; Nov. 15.
Fruit-presses. O. P. Schriver Co. No. 148,245; Nov. 15.
Furniture-finish. American Seating Company. No. 152,529; Nov. 15.
Gauze and cheese-cloth for surgical purposes. D. Langenzen. No. 147,354; Nov. 15.
Ginger ale and beer, birch and root beers, &c. Wawbeek Spring Water Co. No. 146,176; Nov. 15.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Glasshouses in the piece. Herbert R. Ledyer Co. No. 152,472; Nov. 15.
Golf-balls. United States Rubber Company. No. 153,923; Nov. 15.
Grape-juice and juice of other fruits, Unfermented. R. Escofet. No. 149,076; Nov. 15.
Grinding and pulverizing mills. Bradley Pulverizer Co. No. 146,985; Nov. 15.
Guns and connections therefor, Grease and oil. I-C Manufacturing Company. No. 147,040; Nov. 15.
Hair-nets. S. Glemby, Inc. No. 129,977; Nov. 15.
Hair-nets. M. Wahl & Son. No. 152,605; Nov. 15.
Hair, Preparation used in washing the. T. E. Dilley. No. 152,324; Nov. 15.
Hair-tints. Oxzyn Company. Nos. 152,477-8; Nov. 15.
Hammers and forges, Power. C. C. Bradley & Son. No. 146,623; Nov. 15.
Handbags, Ladies'. Trimzon Co. No. 148,866; Nov. 15.
Indigestion-powder and shampoo preparation. Medicinal Products Corporation. No. 151,599; Nov. 15.
Key-cases. Buxton Incorporated. No. 151,307; Nov. 15.
Key-ring hooks. W. N. Morrison. No. 152,006; Nov. 15.
Macaroni, spaghetti, alimentary paste. G. Matalone. No. 145,076; Nov. 15.
Magnetos to internal-combustion engines and magneto drive-couplings therefor, Attachments for fitting. Marneto Attachment Co. No. 148,340; Nov. 15.
Malt extract, Liquid. Chas. Volker & Son. No. 152,490; Nov. 15.
Malt-syrup. E. J. Weston. No. 142,372; Nov. 15.
Manure, Pulverized poultry-. Poultry Feed Company. No. 120,495; Nov. 15.
Maple syrup, sugar, and cream, &c. Equinox Mountain Spring, Inc. No. 145,619; Nov. 15.
Matches. Diamond Match Company. No. 151,011; Nov. 15.
Medical preparation for colds, flu, and la grippe. J. P. Manlen. No. 143,285; Nov. 15.
Medical preparation for malaria. A. Sala. No. 152,280; Nov. 15.
Medicine for Spanish flu. A. Dellape. No. 146,377; Nov. 15.
Medicine used against cancer, &c., and as a blood-purifier. W. Faupel. No. 150,805; Nov. 15.
Metal (commercial) rod. Mueller Metals Company. Nos. 142,262-3; Nov. 15.
Metal-working tools. Société des Usines Curial. No. 149,152; Nov. 15.
Meters, water and oil gages, Flow-. Pemberthy Injector Company. No. 149,818; Nov. 15.
Milling-cutters, reamers, arbors, &c. New Britain Tool and Manufacturing Company. No. 147,119; Nov. 15.
Mops, brushes, brooms, daubers, dusters. Fuller Brush Company. No. 141,951; Nov. 15.
Muslin piece goods. Marshall Field & Company. No. 140,805; Nov. 15.
Nail-polishers and atomisers. Tuskeloid Company. Nos. 140,692-3; Nov. 15.
Nail-pullers. L. F. Grammes & Sons. No. 147,873; Nov. 15.
Oiled cloth. Standard Textile Products Company. No. 132,667; Nov. 15.
Oils, Lubricating-. Waverly Oil Works Company. No. 149,570; Nov. 15.
Ointment for rheumatism, after shaving, corns, &c. Arneth Company. No. 148,783; Nov. 15.
Paint for structural steel. Gobeen Corporation. No. 129,837; Nov. 15.
Paint for wood and metal, Enamel. American Enamel Company. Nos. 121,330-1; Nov. 15.
Paints. O'Brien Varnish Company. No. 152,576; Nov. 15.
Paints, Sherwin-Williams Company. No. 152,567; Nov. 15.
Paints, Paste. Watson Paint and Glass Company. No. 148,111; Nov. 15.
Paper, Adding-machine. Central Paper Company. No. 151,203; Nov. 15.
Paper and typewriter-ribbons, Carbon-. Carrib Mfg. Corporation. No. 147,277; Nov. 15.
Paper, Cover-. American Writing Paper Company. No. 153,325; Nov. 15.
Paper, Enamel-. Seaman-Patrick Paper Company. No. 149,822; Nov. 15.
Paper-handling machines, bundling-machines, &c. Dexter Folder Company. No. 149,391; Nov. 15.
Paper, Onion-skin. Chemical Paper Manufacturing Co. No. 152,514; Nov. 15.
Paper, Tissue toilet-. Graham Paper Company. No. 149,698; Nov. 15.
Paper, Toilet and wrapping. Industrial Paper Company. No. 150,012; Nov. 15.
Paper, Wrapping-. Zellerbach Paper Company. No. 150,089; Nov. 15.
Paper, Writing-. Wright, Barrett & Stillwell Company. Nos. 152,454-5; Nov. 15.
Papers and mailing-envelops, Writing and printing. American Writing Paper Company. No. 153,323; Nov. 15.
Papers, Ledger-. Alling and Cory Company. No. 147,180; Nov. 15.
Papers, Waxed and transparent. Package Paper & Supply Corporation. Nos. 149,949-50; Nov. 15.
Papers, Writing. Chemical Paper Manufacturing Company. No. 151,696; Nov. 15.
Paper, Writing. Chemical Paper Manufacturing Company. No. 151,705; Nov. 15.
Papers, Writing and printing. American Writing Paper Company. No. 153,324; Nov. 15.
Pencils, Lead-. Rapida Pencil Company. No. 149,424; Nov. 15.
Perfumes. Dainty Dame Importing Corp. No. 151,756; Nov. 15.
Perfumes, Containers for. Button & Shrand. No. 151,251; Nov. 15.
Petroleum and petroleum products. Compania Oil Company. No. 152,515; Nov. 15.
Photographic paper, Sensitized. Defender Photo Supply Company. No. 140,272; Nov. 15.
Pictures, films, Motion-. S. M. Hornig. No. 150,272; Nov. 15.
Pictures, Projecting-screens for moving. Mitroe Export & Import Co. No. 150,322; Nov. 15.
Pipes, cigar and cigarette holders and cases, &c. S. Gordon. No. 145,062; Nov. 15.
Pistols, Foreign Manufacturers Sales Corporation. No 145,262; Nov. 15.
Pistols, Automatic. F. G. Riva. No. 143,295; Nov. 15.
Pistols, rifles, and combination pistols and rifles. Fiala Arms Company. No. 143,434; Nov. 15.
Pomade, Hair-. J. H. Bishop. No. 152,960; Nov. 15.
Poultry, Compound for. I. E. Radcliff. No. 139,270; Nov. 15.
Powder-puffs. Marcus & Smith. No. 149,512; Nov. 15.
Powder, Talcum-. Bauer & Black. No. 151,747; Nov. 15.
Preparation used in the treatment of intestinal pains and disorders. Thorn & Company. No. 152,390; Nov. 15.
Pumps and pumping plants, Superior Manufacturing Company. No. 136,775; Nov. 15.
Razor strepping and honing machines, &c. Electrostrop Manufacturing Company. No. 144,900; Nov. 15.
Razors and blades, Safety. S. Isaacs. No. 148,800; Nov. 15.
Record-blank, Household and office inventory. M. Irwin. No. 149,970; Nov. 15.
Refrigerating units and household refrigerators, Artificial. Utility Compressor Company. No. 141,199; Nov. 15.
Ribbons and carbon sheets, Inked. Columbia Carbon Company. No. 144,449; Nov. 15.
Ribbons and carbon-sheets, Inked. A. M. Heck. No. 150,271; Nov. 15.
Rubber balls, Toy. Panther Rubber Manufacturing Company. No. 144,000; Nov. 15.
Rubber erasers. E. Hassinger. No. 124,405; Nov. 15.
Salve, cold and catarrh cream, &c., Corn and bunion. L. S. Osman. No. 147,678; Nov. 15.
Screen separating-machines, Vibrated-. W. S. Tyler Company. No. 120,776; Nov. 15.
Sewing-machines. Guhl & Harbeck. No. 144,716; Nov. 15.
Signals and trip mechanisms for automatically arresting operation of a machine, Twine-controlled. Measuregraph Company. No. 144,144; Nov. 15.
Soap, Toilet. Los Angeles Soap Co. No. 152,264; Nov. 15.
Spray, Nose and throat. Standard Oil Co., (Incorporated in New Jersey.) No. 152,484; Nov. 15.
Syrups, Chocolate and other malteds. Devoine Candy Company. No. 152,240; Nov. 15.
Tablets, Writing-. White & Wychoff Manufacturing Company. No. 149,366; Nov. 15.
Tackle-blocks. J. H. Flynn, Jr. No. 138,483; Nov. 15.
Thermometers, Clinical. B. Franklin. No. 146,305; Nov. 15.
Tonic, General. A. C. Ouness. No. 152,476; Nov. 15.
Toothbrushes, cloth, hair, &c., brushes. San Antonio Drug Co. No. 142,420; Nov. 15.
Toy banks. S. C. Patchett. No. 152,444; Nov. 15.
Toy Chemical sets. American Drug and Chemical Co. No. 152,494; Nov. 15.
Toy vehicles and parts thereof, Building elements used in the construction of. Wonder Builder Toy Co. No. 139,884; Nov. 15.
Trucks, Motor-. Service Motor Truck Company. No. 143,844; Nov. 15.
Turbines and condensers, pumps, blowers, &c., Steam. Metropolitan-Vickers Electrical Co. No. 141,726; Nov. 15.
Twine. Cayuga Linen & Cotton Mills. Nos. 153,126-7; Nov. 15.
Twine, Bender-. Indianapolis Cordage Company. No. 153,290; Nov. 15.
Valves, siphons, cocks, &c., Check. C. Schneider. No. 146,669; Nov. 15.
Varnish. McDougall-Butler Co. No. 152,952; Nov. 15.
Varnish. Benjamin Moore & Co. No. 153,207; Nov. 15.
Voiles in the piece, Cotton. Henry Glass & Co. No. 137,611; Nov. 15.
Wagons, Children's express and coaster. Marshall-Wells Company. No. 135,725; Nov. 15.
Washers, Dial-. Hammel, Riglander & Co. No. 148,685; Nov. 15.
Wire cloth, netting, trellis, &c. Wickwire Spencer Steel Corporation. No. 145,143; Nov. 15.
Woolens and worsteds in the piece. Blake & Stearns. No. 152,486; Nov. 15.

CLASSIFICATION OF PATENTS

ISSUED NOVEMBER 15, 1921.

NOTE.—First number—class, second number—subclass, third number—patent number.

1—	2.3:	1,397,176	28—	4:	1,397,289	55—	76:	1,397,104	76—	78:	1,396,819	105—	457:	1,396,727	137—	79:	1,397,344
		1,397,177	30—	27:	1,397,466		83:	1,397,333		101:	1,397,890	106—	22:	1,397,144		152:	1,397,349
	8.3:	1,397,439		32:	1,397,089	58—	26:	1,397,304	77—	22:	1,396,781		23:	1,396,937		153:	R. 15,224
	10:	1,397,044		57:	1,396,897			1,397,305	80—	57:	1,397,191	107—	1:	1,397,272	139—	21:	1,397,475
	15:	1,396,989		87.1:	1,397,457		211:	1,396,987			1,397,204		8:	1,397,233	140—	3:	1,397,268
2—	41:	1,397,633		102:	1,397,327		228:	1,397,464		41:	R. 15,227		9:	1,396,881		92.2:	1,397,316
	57:	1,396,720		103:	1,397,149	59—	18:	1,396,942	81—	9.1:	1,396,987		22:	1,397,198	142—	32:	1,397,028
	91:	1,397,231		138.4:	1,397,457		110:	1,396,570		9.2:	1,397,457	108—	26:	1,396,732	144—	228:	1,397,014
	92:	1,396,823		186:	1,396,918	59—	91:	1,397,458		4:	1,397,283		28:	1,397,329		264:	1,397,402
	93:	1,397,231	30—	3:	1,397,217	61—	5:	1,397,025		7:	1,397,124	110—	5:	1,396,761		281:	1,397,499
	107:	1,396,995		10:	1,397,018		68:	1,397,487		9.5:	1,396,908		28:	1,397,206		309:	1,396,971
	108:	1,397,246		14:	1,397,382		69:	1,396,895		28:	1,397,409		55:	1,397,155	145—	1:	1,396,909
	149:	1,397,209	31—	98:	1,396,697		77:	1,396,921		87:	1,397,462		74:	1,397,422		50:	1,396,748
4—	5:	1,397,295	32—	9:	1,397,052		91:	1,397,413		119:	1,397,044	111—	89:	1,396,784	146—	7:	1,397,306
	18:	1,396,984			1,397,192	62—	6:	1,396,906		151:	1,397,214	112—	11:	1,397,052			1,397,499
		1,397,699		16:	1,397,395		57:	1,397,302		152:	1,397,253		47:	1,397,013	148—	5:	1,397,397
5—	12:	1,397,041		27:	1,397,020		72:	1,396,575		160:	1,396,963		80:	1,396,840	150—	34:	1,397,309
		1,397,201		29:	1,397,772		114:	1,396,572		163:	1,396,981		90:	1,397,322	151—	25:	1,397,252
	86:	1,397,398	33—	17:	1,397,302	64—	24:	1,397,050	82—		1,397,152		125:	1,397,002	152—	6:	1,396,778
	61:	1,397,201		47:	1,397,378			1,397,115	83—	11:	1,396,983		215:	1,397,071		8:	1,396,952
7—	4:	1,396,883		56:	1,397,108		25:	1,396,880			1,397,467	114—	9.5:	1,397,385			1,397,350
8—	18:	1,396,792		62:	1,396,937			1,397,083		56:	1,397,220		64.5:	1,396,831		12:	1,397,027
9—	19:	1,397,248		147:	1,397,080			1,397,084			1,397,357		173:	1,397,405			1,397,235
10—	68:	1,396,989		160:	1,397,189			1,397,110			1,397,338	116—	43:	1,397,483		13:	1,396,742
	102:	1,397,238		189:	1,396,808		26:	1,397,352			1,397,230		47:	1,397,211		14:	1,397,182
	114:	1,397,243		208:	1,397,490		35:	1,396,734			1,397,240		131:	1,397,319			1,397,188
12—	48:	1,396,892	34—	7:	1,396,899		36:	1,396,899			1,397,341		138:	1,397,424			1,397,476
	128.5:	1,396,997		12:	1,397,109		39:	1,397,142			1,397,342		173:	1,396,787		21:	1,397,240
13—	19:	1,397,231		13:	1,397,320		53:	1,396,906			1,397,343	118—	23:	1,396,893		29:	1,397,443
		1,397,257		48:	1,397,309		62:	1,397,226		60:	1,397,478	120—	28:	1,397,454		36:	1,396,954
15—	3:	1,396,977	36—	25:	1,396,801			1,397,297		64:	1,397,312	121—	32:	1,396,929		48:	1,397,140
		1,397,417		34:	1,396,783		96:	1,396,979		84:	1,397,414	122—	65:	1,397,480	153—	28:	1,397,271
	20:	1,396,973	37—	5:	1,396,846	65—	61:	1,397,323		86:	1,397,480		166:	1,397,268	154—	8:	1,396,789
	36:	1,396,967			1,397,011	66—	12:	1,397,069		91:	1,397,099		225:	1,397,010		10:	1,397,133
	68:	1,397,294		7:	1,397,265		22:	1,397,070	84—	126:	1,397,255	123—	32:	1,396,935			1,397,154
	69:	1,396,729		33:	1,397,180	67—	78:	1,397,349		302:	1,397,193			1,396,978		37:	1,396,818
16—	75:	1,397,171		62:	1,397,438	68—	9:	1,397,202		326:	1,397,479		41:	1,397,258		42:	1,396,686
	103:	1,397,410	40—	1:	1,397,260			1,397,300		362:	1,397,010		52:	1,396,904		46:	1,397,343
	115:	1,397,258		10:	1,396,910			1,397,303	85—	28:	1,397,388			1,397,482	155—	11:	1,397,261
	186:	1,397,208		11:	1,396,892			1,397,348		36.5:	1,397,373		53:	1,396,744		53:	1,396,776
	201:	1,397,129			1,396,940		20:	1,396,764		59.3:	1,397,175		174:	1,396,953		56:	1,397,008
	12:	1,397,221		7:	1,397,109		41:	1,397,035		68:	1,396,534		180:	1,396,736		77:	1,396,823
	20:	1,396,709		59:	1,396,939		66:	1,397,147	92—	57:	1,397,375	124—	7:	1,396,788		98:	1,396,809
		1,396,770	42—	61:	1,397,384	73—	51:	1,396,817		61:	1,396,980	125—	26:	1,397,227		99:	1,397,160
	32:	1,397,270		76:	1,396,810			1,397,396	93—	63:	1,396,905	126—	39:	1,397,207		119:	1,397,473
	51:	1,397,117		82:	1,397,440		52:	1,397,412	95—	5:	1,396,770		163:	1,397,396		120:	1,397,170
22—	26:	1,397,058		113:	1,397,218		54:	1,396,944		31:	1,397,122		237:	1,397,178	164—	113:	1,397,007
23—	13:	1,396,982		133:	1,396,797		82:	1,397,227		44:	1,397,231		262:	1,396,908	165—	24:	1,397,048
		1,397,076	45—	77:	1,396,954		111:	1,397,275		76:	1,396,952	127—	2:	1,396,773	169—	8:	1,396,411
		1,397,264		100:	1,396,777		118:	1,396,782	97—	27:	1,396,816		9:	1,397,445		21:	1,396,828
	22:	1,396,841		102:	1,397,289	74—	7:	1,397,244		30:	1,397,146	128—	15:	1,396,933	170—	12:	1,397,031
	24:	1,396,878	46—	25:	1,396,795			1,397,491		36:	1,396,793		117:	1,396,840		104:	1,396,994
		1,396,913		31:	1,397,162			1,397,496			1,397,434		166:	1,397,095		163:	1,396,917
		1,397,121		40:	1,396,766		14:	1,396,824		46:	1,397,415		300:	1,397,038	171—	95:	1,397,441
		1,397,127			1,396,572		26:	1,396,984		63:	1,397,428		353:	1,397,461		119:	1,397,236
		1,397,134			1,397,195			1,397,494	99—	8:	1,397,166	129—	30:	1,397,000		208:	1,397,388
24—	3:	1,397,232	45:		1,396,952		32:	1,397,131			1,397,167	130—	18:	1,397,141		225:	1,396,839
	17:	1,397,016	46:		1,396,983		33:	1,396,980		11:	1,397,291		36:	1,397,247		228:	1,396,838
	66:	1,397,151	89:		1,397,135		34:	1,396,821		12:	1,396,899	132—	31:	1,397,332		229:	1,396,886
	67:	1,396,790	61:		1,396,798			1,397,111	101—	20:	1,397,118		87:	1,397,408		321:	1,396,947
	73:	1,397,431	49—	17:	1,397,336			1,397,172		141:	1,396,791	133—	10:	1,397,444		325:	1,396,948
	110:	1,397,376		32:	1,397,149			1,397,366		208:	1,396,827		11:	1,396,923	172—	36:	1,397,249
	129:	1,397,051		38:	1,396,739		36:	1,397,317		402:	1,397,485	134—	13:	1,397,197		179:	1,396,812
		1,397,126		87:	1,397,257		39:	1,396,850			1,397,486		24:	1,397,102			1,396,896
	133:	1,397,130	51—	29:	1,396,763			1,397,120		413:	1,397,125		25:	1,397,397			1,397,335
	136:	1,397,189			1,396,861		48:	1,397,308	102—	20:	1,397,425		42:	1,397,108		238:	1,396,826
	157:	1,397,082			1,397,360		58:	1,397,442	103—	89:	1,396,922		48:	1,396,970		239:	1,396,808
	158:	1,397,226	131:		1,397,359		63:	1,396,925	104—	53:	1,397,009			1,397,028			1,396,838
	227:	1,397,382	198:		R. 15,228		99:	1,397,096		112:	1,397,398		51:	1,396,995		240:	1,396,966
	230:	1,396,887	200:		1,397,399			1,397,219		178:	1,397,242		58:	1,396,914		288:	1,396,835
		1,397,237	53—	21:	1,397,042		109:	1,396,836		263:	1,396,804			1,396,924		293:	1,397,449
	241:	1,397,066	58—	1:	1,397,318			1,397,324	105—	108:	1,397,122		60:	1,397,077	173—	268:	1,397,040
	268:	1,396,941		7:	1,396,948		115:	1,397,230		113:	1,397,472		79:	1,397,173		358:	1,397,212
28—	102:	1,396,779	84—	46:	1,397,128	75—	18:	1,396,740		271:	1,397,165			1,397,498		362:	1,396,957
	118:	1,397,228	85—	13:	1,396,906		45:	1,397,404		304:	1,397,081	135—	25:	1,396,898	175—	183:	1,397,226
	121:	1,397,241		44:	1,396,723	76—	41:	1,397,075		309:	1,396,981		33:	1,397,495			1,397,347
	131:	1,397,138		61:	1,397,391		68:	1,397,351		431:	1,397,294		46:	1,397,159		294:	1,397,276

177— 220: 1,397,621
178— 44: 1,398,699
52: 1,398,743
179— 18: R. 15,223
1,398,743
1,398,744
27: 1,398,730
29: 1,397,137
72: 1,398,729
81: 1,398,760
1,398,769
119: 1,398,747
171: 1,398,745
1,398,768
175: 1,398,699
182: 1,398,771
180— 1: 1,398,786
9.1: 1,397,139
12: 1,398,926
35: 1,397,655
64: 1,397,453
82: 1,397,454
85: 1,397,394
181— 27: 1,397,008
182— 9: 1,397,471
183— 7: 1,398,811
34: 1,398,787
39: 1,398,699
83: 1,398,699
102: 1,398,882
184— 8: 1,397,888
13: 1,398,969
28: 1,397,665
187— 26: 1,397,667
71: 1,398,731
86: 1,398,758
87: 1,398,732
188— 1: 1,398,754
46: 1,398,695
57: 1,397,699
65: 1,397,220
77: 1,397,420
78: 1,397,225
189— 88: 1,397,439
138: 1,397,643
162: 1,398,845
164: 1,398,844
194: 1,398,843
312: 1,398,845
67: 1,398,957
190— 54: 1,397,224
87: 1,397,483
191— 76: 1,398,695
193— 18: 1,398,697
39: 1,397,481
87: 1,398,733
98: 1,397,695
195— 26: 1,398,899
197— 62: 1,398,895
157: 1,397,165
20: 1,397,893
88: 1,397,165
1,398,729
1,398,730
198— 12: 1,397,004
153: 1,398,815
200— 6: 1,397,161
201— 1: 1,397,894
5: 1,397,009
202— 26: 1,397,222
41: 1,397,153
58: 1,398,733
203— 41: 1,398,749
205— 21: 1,397,093
34: 1,397,174
51: 1,397,899
122: 1,397,452
211— 8: 1,398,772
1,398,916
1,397,570
212— 80: 1,398,738
1,398,739
94: 1,398,738
1,397,239
67: 1,398,957
214— 24: 1,398,899
215— 74: 1,398,899
217— 82: 1,397,169
219— 44: 1,398,957
73: 1,398,951
75: 1,397,573
76: 1,397,231
221— 31: 1,398,670
51: 1,398,691
57: 1,397,899
222— 31: 1,398,899
38: 1,398,735
224— 128: 1,398,899
225— 18: 1,398,734
6: 1,397,161
26: 1,398,915
228— 12: 1,398,899
229— 72: 1,397,477
27: 1,397,179
1,397,416
232— 24: 1,397,438
41: 1,397,527
234— 58: 1,398,953
1,398,955
1,398,956
1,397,229
58: 1,398,734
1,397,169
237— 91: 1,397,313
238— 47: 1,397,407
239— 221: 1,397,107
804: 1,398,808
240— 1: 1,397,688
11: 1,398,698
41: 1,397,698
1,397,224
115: 1,397,236
241— 6: 1,397,688
243— 47: 1,397,688
62: 1,397,149
72: 1,398,954
147: 1,397,688
244— 2: 1,398,674
1,398,694
1,398,954
1,397,670
14: 1,397,698
15: 1,397,166
16: 1,397,698
25: 1,397,698
30: 1,397,698
246— 37: 1,398,698
1,398,699
1,398,847
68: 1,398,847
1,397,694
1,397,695
161: 1,398,970
162: 1,397,156
166: 1,397,665
169: 1,397,153
197: 1,397,351
208: 1,397,670
207: 1,397,606
247— 126: 1,398,738
248— 30: 1,397,264
63: 1,397,240
250— 6: 1,397,232
15: 1,397,698
34: 1,398,698
41: 1,398,697
251— 5: 1,397,651
8: 1,397,230
254— R. 15,223
1,397,699
1,397,670
1,397,113
256— 2: 1,398,923
52: 1,397,666
258— 68: 1,397,695
176: 1,397,233
177: 1,398,698
264— 1: 1,397,158
46: 1,398,698
166: 1,398,698
1,398,951
1,397,116
267— 8: 1,398,951
120: 1,398,951
1,397,116
13: 1,397,697
139: 1,397,235
220: 1,397,232
268— 6: R. 15,238
6: 1,397,237
1,397,158
156: 1,397,029
22: 1,397,029
285— 48: 1,398,748
1,398,946
30: 1,398,698
287— 6: 1,397,377
19: 1,398,851
1,397,157
68: 1,397,157
288— 4: 1,397,112
7: 1,398,757
1,398,758
1,398,775
370— 8: 1,398,672
371— 18: 1,398,768
20: 1,397,226
375— 9: 1,398,677
377— 6: 1,397,229
20: 1,397,231
378— 8: 1,397,474
379— 88: 1,398,756
1,398,757
61: 1,398,698
89: 1,398,722
1,397,311
381— 49: 1,397,688
384— 37: 1,397,687
88— 1: 1,397,689
96: 1,397,145
387— 1: 1,397,270
395— 16: 1,397,228
28: 1,397,278
37: 1,397,377
392— 329: 1,398,942
347: 1,397,489
358: 1,397,450
337: 1,397,101
348: 1,397,426
359: 1,397,074
398— 41: 1,397,043
55: 1,397,105
1,397,212
1,397,213
1,397,234
1,397,215
1,397,354
1,397,451
394— 92: 1,397,672
118: 1,397,345
395— 1: 1,398,766
1,398,767
6: 1,397,448
399— 1: 1,398,737
68: 1,398,942
1,397,134
457: 1,398,662
400— 11: 1,397,355
14: 1,398,738
405— 35: 1,397,045
66: 1,397,220
99: 1,397,073
975— 2: R. 15,229
8: 1,397,205
12: 1,397,443
18: 1,397,104
264— 33: 1,398,986
395— 16: 1,397,314
396— 32: 1,398,822

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 22d DAY OF NOVEMBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abbott, William J. (See McNeill, A. M., and Abbott.)
Abegg, Walter A., assignor of one-half to B. Reinhold, Los Angeles, Calif. Socket-wrench. No. 1,398,054; Nov. 22.
Acker, Julius J., et al. (See Kass, Peter, assignor.)
Ackermann Manufacturing Company. (See Peyser, Joseph, assignor.)
Allen, Adrian S., assignor of sixty per cent. to J. H. Taft, Chicago, Ill. Auxiliary lock for safes, vaults, &c. No. 1,397,999; Nov. 22.
Aktiebolaget Pump-Separator. (See Munters, Anders J. E., assignor.)
Aldrich, Thomas B., assignor to Parke, Davis & Company, Detroit, Mich. Benzoic-acid esters of tribromotertiary butyl alcohol. No. 1,397,918; Nov. 22.
Allais, Emile, Reims, France. Combined apparatus for taking and projecting pictures. No. 1,397,496; Nov. 22.
Allen, Claude N., Michigan City, Ind. Cleaning implement. No. 1,961,121; Nov. 22.
Allen, Herbert W., Sugar Pine, Calif. Manifold. No. 1,397,712; Nov. 22.
Allen, William R., Hutchinson, Kans. Automatic timing device. No. 1,398,000; Nov. 22.
Allington, John L., Joplin, Mo., assignor of one-third to O. M. Bilhars, Baxter Springs, Kans., and one-third to F. H. Gartung, Miami, Okla. Rock or dirt drag. No. 1,397,751; Nov. 22.
Allison, Albert K., Tappan, N. Y. System and apparatus for controlling motors. No. 1,398,056; Nov. 22.
Allstedt, John E., Hastings, Nebr. Tank-heater. No. 1,397,831; Nov. 22.
Alpine, John E., Green Bay, Wis. Carbureter. No. 1,397,711; Nov. 22.
American Coke & Chemical Company. (See Krippner, John, assignor.)
American Laundry Machy. Company, The. (See Dann, James E., assignor.)
American Machine & Foundry Company. (See Smith, Elberon D., assignor.)
American Manganese Steel Company. (See Swayze, William W. J., assignor.)
American Optical Company. (See Boutelle, William H., assignor.)
American Optical Company. (See Bugbee, Lucian W., assignor.)
American Radiator Company. (See Landon, Archer A., assignor.)
American Telephone and Telegraph Company. (See Kuhn, George W., assignor.)
American Telephone and Telegraph Company. (See Thompson, George K., assignor.)
Amsterdam Broom Company. (See Van Voast, George K., assignor.)
Anderson, Anton G. H., Springfield, Ill. Speed-regulator for windmills. No. 1,397,718; Nov. 22.
Anderson-Barngrover Mfg. Co. (See Thompson, Albert R., assignor.)
Anderson, George W., Elizabeth, N. J. Vehicle work-stand. No. 1,398,057; Nov. 22.
Anderson, Robert J., El Paso, Tex., assignor to International Fuel Conservation Co., Phoenix, Ariz. Converting sodium sulfate to sodium sulfid. No. 1,397,497; Nov. 22.
Appell, Samuel A., New Haven, Conn. Combined cigarette or like case and electric torch. No. 1,397,610; Nov. 22.
Arbetter Felling-Machine Company. (See Hayes, Thomas J., assignor.)
Armbruster, Alfred. (See Fokken, G. W., and Armbruster.)
Armstrong, Sir W. G., Whitworth and Company Limited. (See Lee, H. W., and Morrison, assignors.)
Armstrong, Walter, Chicopee, Mass. Type-making machine. No. 1,397,714; Nov. 22.
Aronson, Louis V., Newark, N. J. Shoe-form. No. 1,397,715; Nov. 22.
Astry, P. D., et al. (See Gable, Jacob W., assignor.)
Atlas Powder Company. (See Bacon, G. C., and Wilson, assignors.)
Augustin, Edwin J., Wauwatosa, and G. Bauer, Milwaukee, Wis. Ammonia-compressor. No. 1,397,914; Nov. 22.
Aurand, Edward L., Detroit, Mich. Portable electric plant. No. 1,398,058; Nov. 22.
Auto-Ordnance Corporation. (See Payne, Oscar V., assignor.)
Auto Radio Meter Company. (See Benson, A. A., and Barnes, assignors.)
Automatic Burglar Alarm Company. (See Sparks, Fred E., assignor.)
Automatic Electric Heater Company. (See Clark, Warren F., assignor.)
Automatic Temperature Control Co. (See Egar, L. E., and Wilhjelm, assignors.)
Automatic Weighing Machine Company. (See Mockridge, Joseph B., assignor.)
Bachmann, Robert Alexander, Pittsburgh, Pa. Sprayer. No. 1,397,851; Nov. 22.
Backer, Elmer F., assignor to Davenport Locomotive Works, Davenport, Iowa. Geared locomotive. No. 1,397,716; Nov. 22.
Bacon, Gilbert C., and W. C. Wilson, Tamaqua, Pa., assignors to Atlas Powder Company, Wilmington, Del. Treating nitrocellulose and to a valuable nitrocellulose product resulting therefrom. No. 1,397,915; Nov. 22.
Bailey, Horace E., Brookline, Mass. Bath-brush. No. 1,397,611; Nov. 22.
Baker, Newton D., Secretary of War, trustee. (See Ball, Benjamin H., assignor.)
Bakstad, Johan E., assignor to Holden & White Inc., Chicago, Ill. Electric heater. No. 1,398,167; Nov. 22.
Bakstad, Johan E., assignor to Holden & White, Inc., Chicago, Ill. Electric heater. No. 1,398,168; Nov. 22.
Balcke, Walter H., Winchester, and W. A. Ready, Brighton, assignors to National Company, Boston, Mass. Amusement apparatus. No. 1,397,832; Nov. 22.
Ball, Benjamin H., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Firearm. No. 1,398,085; Nov. 22.
Ball, George S., assignor to E. R. Melton and J. C. Jenkins, Washington, D. C. Liner-trimming gage. No. 1,397,612; Nov. 22.
Barnebey, Oscar L., Cleveland, Ohio. Making cyanids. No. 1,397,613; Nov. 22.
Barnes, Horace. (See Benson, A. A., and Barnes.)
Barnette, John S., Jr., Broughton, Pa. Safety device for mine-elevators. No. 1,398,216; Nov. 22.
Barrett Company, The. (See Reeve, Charles S., assignor.)
Barriere, Wilfrid H., Worcester, Mass. Window. No. 1,397,671; Nov. 22.
Barriere, Wilfrid H., Worcester, Mass. Direction-indicator for automobiles. No. 1,397,672; Nov. 22.
Bartholomew, Bert E., Algona, Iowa. Railway-gate. No. 1,398,001; Nov. 22.
Bary, Edward M., Kansas City, Mo. Watchmaker's pliers. No. 1,397,614; Nov. 22.
Bassett, Fred E., Paw Paw, Mich. Vending-machine. No. 1,397,615; Nov. 22.
Baxter, Harry C., Benton Harbor, Mich. Loose-leaf-filing-system posting-tray. No. 1,397,616; Nov. 22.
Bauer, George. (See Augustin E. J., and Bauer.)
Bauer, John J., assignor to The Thrift Jar Company, Baltimore, Md. Jar-capping machine. No. 1,398,002; Nov. 22.
Bayuk, Meyer, Philadelphia, Pa. Metal cigar-box. No. 1,398,059; Nov. 22.
Beadon, Richard Ralph & Court, Agra, India. Elastic tire for wheels of vehicles. No. 1,398,169; Nov. 22.
Beck, Charles L., Lyon, assignor of one-half to A. Gehenniaux, Paris, France. Suspension for vehicles. No. 1,398,060; Nov. 22.
Beck, Jennings B., Covington, Ky., assignor, by mesne assignments, to Standard Oil Company. Air-service station for automobiles. No. 1,397,916; Nov. 22.
Behrman, Marcus B., New York, assignor to The Lox Seal Corporation, Brooklyn, N. Y. Lock-tag. No. 1,397,917; Nov. 22.
Belden, Clements G., Baltimore, Md., assignor to The Crown Cork and Seal Company of Baltimore City. Bottle-capping apparatus. No. 1,397,617; Nov. 22.
Bellamy, Edward W., Torrington, Conn. Permutation-padlock. No. 1,397,717; Nov. 22.
Bellwald, John N., Mexico, Mexico. Wire rope. No. 1,397,718; Nov. 22.
Bender, Carl J., Gnadenhutten, Ohio. Pedal-lock. No. 1,398,122; Nov. 22.
Bender, David G., Blue Island, Ill. Culinary apparatus. No. 1,397,852; Nov. 22.
Benjamin, Bert E., Oak Park, Ill., assignor, by mesne assignments, to International Harvester Company. Guard-finger for harvester-thresher. No. 1,397,942; Nov. 22.
Benjamin Electric Manufacturing Company. (See McLean, Philip S., assignor.)

Benson, Ary A., and H. Barnes, assignors to Auto Radio Meter Company, Seattle, Wash. Temperature-indicator for radiators. No. 1,398,218; Nov. 22.
Bergen, John F., and J. Marcus, Brooklyn, N. Y. Binder attachment for sewing-machines. No. 1,397,853; Nov. 22.
Best, William N., Brooklyn, N. Y. Connection of finely-subdivided material. No. 1,397,791; Nov. 22.
Best, William N., Brooklyn, N. Y. Apparatus for oxidation of finely-subdivided material. No. 1,397,792; Nov. 22.
Bethlehem Steel Company. (See Carey, R. B., Lukens, and Mixsell, assignors.)
Bibard, René A., Bellevue, France. Special fastening for ends of laces. No. 1,397,918; Nov. 22.
Bignan, Jacques, Puteaux, France. Lubricating system. No. 1,398,170; Nov. 22.
Bilhars, Oscar M., *et al.* (See Allington, John L., assignor.)
Bishop, George H., Calgary, Alberta, Canada. Cattle-guard. No. 1,397,752; Nov. 22.
Bishop, Joseph K. (See Hanable, Carl F., assignor.)
Blackett, Olin W., Brookline, Mass. Headlight. No. 1,397,793; Nov. 22.
Blaylock, Selwyn G. (See Thom, C., Diamond, and Blaylock.)
Bleick, William D. (See Doerr, Fred H., assignor.)
Bogaty, Hermann, assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Gear-box. No. 1,398,171; Nov. 22.
Bott, Alice K., Cincinnati, Ohio. Corset. No. 1,397,570; Nov. 22.
Boutelle, William H., assignor to American Optical Company, Southbridge, Mass. Forming temple end pieces. No. 1,397,819; Nov. 22.
Bowen, Richard, Cheltenham, assignor to Laminated Coal, Limited, London, England. Apparatus for the production of artificial fuel. No. 1,397,571; Nov. 22.
Bowen, Richard, Cheltenham, assignor to Laminated Coal, Limited, London, England. Production of artificial fuel. No. 1,397,572; Nov. 22.
Bowman, Charles, Washington, D. C. Cloth-gauge. No. 1,398,061; Nov. 22.
Boyle, John P., and W. A. Inman, Chicago, Ill.; said Inman assignor to said Boyle. Ice-manufacturing apparatus. No. 1,397,498; Nov. 22.
Brampton Brothers. (See Yeandl, H. S., and Richardson, assignors.)
Bremberg, Axel, Glasgow, Scotland. Hydraulic recoil apparatus for ordnance. No. 1,398,172; Nov. 22.
Brennan, Michael E., Hudson, N. Y. Chin-support. No. 1,397,499; Nov. 22.
Briggs, Frank A. (See Pierce, Harry, assignor.)
Brittain, Edward, *et al.* (See Kass, Peter, assignor.)
Brock, John O., Wilson, N. C. Spark-plug. No. 1,398,173; Nov. 22.
Brooks, Charles D., Brooklyn, N. Y. Centrifugal propeller. No. 1,398,062; Nov. 22.
Brown, Clifford C., Cartersville, Ga. Mixer for gas-engines. No. 1,398,063; Nov. 22.
Brown Company. (See Parker, Howard, assignor.)
Brown, Edmund N., and M. H. Shoemberg, assignors to Majestic Electric Development Company, San Francisco, Calif. Electric heater. No. 1,398,217; Nov. 22.
Brown, John W., Manufacturing Company, The. (See Pfeifer, Leo L., assignor.)
Brown Portable Conveying Machinery. (See Eriksen, Peter S, assignor.)
Brundage, James W., assignor to The Miller Rubber Company, Akron, Ohio. Machine for cutting sections from tire-casings. No. 1,398,123; Nov. 22.
Bryan, Edgar J., assignor to P. Stebler, Riverside, Calif. Hand-truck. No. 1,397,719; Nov. 22.
Bucheaberg, Alvin E., assignor to Electric Auto-Lite Corporation, Toledo, Ohio. Control for dynamo-electric systems. No. 1,398,064; Nov. 22.
Buchsbaum, Samuel, Chicago, Ill. Belt-buckle. No. 1,397,673; Nov. 22.
Burbee, Lucian W., assignor to American Optical Company, Southbridge, Mass. Bifocal lens. No. 1,397,920; Nov. 22.
Buhl, Cay P., Passaic, N. J. Carbureter. No. 1,397,800; Nov. 22.
Bunsel, Ernest, Plymouth Meeting, Pa. Quick-acting demountable rim. No. 1,397,573; Nov. 22.
Burgess Battery Company. (See Maisel, Lorenz, assignor.)
Burnett, Richard W., Chicago, Ill. End reinforcement for railway box-cars. No. 1,397,674; Nov. 22.
Burns, William A., London, England, Stair-rod. No. 1,397,618; Nov. 22.
Burroughs Adding Machine Company. (See Muller, Robert L., assignor.)
Buske, Frederick H., Toledo, Ohio. Jumper-seat. No. 1,397,675; Nov. 22.
Bywater, William H., Trenton, N. J. Registering apparatus. No. 1,397,854; Nov. 22.
Cahill, Daniel E. (See Gaede, S. A., and Cahill.)
Cake, Horace M., Philadelphia, Pa. Turntable. No. 1,398,124; Nov. 22.
Campbell, Archie S., St. Johnsbury, Vt. Thermometer attachment for faucets. No. 1,397,720; Nov. 22.
Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Tank-car construction. No. 1,397,676; Nov. 22.
Capron, Franklin S. (See Deruiseaux, D., and Capron.)
Carey, Robert B., Phillipsburg, N. J., W. L. Lukens and L. N. D. Mixsell, assignors to Bethlehem Steel Company, Bethlehem, Pa. Percussion-fuse. No. 1,397,855; Nov. 22.
Carleton, William A., and C. E. Yobo, Bellaire, Ohio. Wrench. No. 1,397,128; filed Nov. 22.
Carlson, Andrew J., Seattle, Wash., assignor of one-half to Andrew Wiland, Seattle, Wash. Hair-clipper. No. 1,397,721; Nov. 22.
Carlson, Sweed, Butte, Mont. Sash-fastener. No. 1,398,174; Nov. 22.
Carpenter, Cromwell C., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Preparing storage-battery separators. No. 1,398,065; Nov. 22.
Carpenter, Walter B., Bloomfield, Iowa. Flue-stopper. No. 1,397,794; Nov. 22.
Carstens, H., Manufacturing Company. (See Carstens, Herbert H., assignor.)
Carstens, Herbert H., assignor to H. Carstens Manufacturing Co., Chicago, Ill. Tensilestoma. No. 1,397,677; Nov. 22.
Carter, Charles D., New York, N. Y., assignor to The Floyd-Wells Co., Royersford, Pa. Stove or range. No. 1,397,853; Nov. 22.
Carter, William O. (See Magowan, O. F., and Carter.)
Casey, William A. (See McKone, Leo. J., assignor.)
Chandler-Fulton Manufacturing Company, The. (See Ralston, William, assignor.)
Chard, Lodge Y., Newcastle, Ind. Low-pressure signal for automobile-tires. No. 1,397,619; Nov. 22.
Chase, Edwin R., Sacramento, Calif. Umbrella. No. 1,397,794; Nov. 22.
Chevalier, Eugene F., assignor of one-half to W. G. Fields, San Dimas, Calif. Implement for making irrigating-channels. No. 1,397,722; Nov. 22.
Chicago Railway Equipment Company. (See Hawkins, Arthur W., assignor.)
Chicago Surgical & Electrical Company. (See Lidberg, Tiodolf, assignor.)
Chowdrow, Jacob, Buffalo, N. Y. Bell-ringer residence unit. No. 1,397,858; Nov. 22.
Clark, Elmer A., Joliet, Ill. Automatic trip mechanism. No. 1,397,857; Nov. 22.
Clark, Warren F., Cleveland, Ohio, assignor, by mesne assignments, to Automatic Electric Heater Company, Warren, Pa. Multiple-urn construction. No. 1,397,620; Nov. 22.
Clark, Wilbur T., Cleveland, assignor of one-half to F. J. Moran, East Cleveland, Ohio. Gas-burner. No. 1,397,501; Nov. 22.
Clarke, Bruce E., Kansas City, Mo. Food compound. No. 1,397,722; Nov. 22.
Clayton, William, Liverpool, and G. Nodder, Wallasey, England. Manufacture of butter substitutes, edible fats, and the like. No. 1,398,003; Nov. 22.
Clebo, Steve. (See Frank, J., and Clebo.)
Clemens, Harmon E., Pulaski, N. Y. Spark-plug. No. 1,398,175; Nov. 22.
Clifford-Farr, Walter T., Barnes, England. Rubber tire. No. 1,397,795; Nov. 22.
Clinton Refrigerator Company. (See Wishart, W., and Morrell, assignors.)
Clock, Fred A. (See Kessler, C. C., and Clock.)
Cluett, Peabody & Co. Inc. (See Cluett, Sanford L., assignor.)
Cluett, Sanford L., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y. Collar, &c. No. 1,397,921; Nov. 22.
Cluf, Chester C., San Francisco, Calif. Embroidery-needle. No. 1,398,004; Nov. 22.
Coates, Daniel B., Payette, Idaho. Cattle-stanchion. No. 1,397,853; Nov. 22.
Cochrane, Arthur L., Toronto, Ontario, Canada. Clamp. No. 1,398,126; Nov. 22.
Cohagen, Donald R. (See Frahsmuth, W. J., and Cohagen.)
Colabrese, Francesco, Albert, W. Va. Trolley-wire protector. No. 1,398,005; Nov. 22.
Cole, Eugene M., Charlotte, N. C. Planter. No. 1,398,006; Nov. 22.
Collins, William H., Meriden, Conn. Broom-holder. No. 1,398,127; Nov. 22.
Composite Metal Lath Company. (See Nonnast, Frederik, assignor.)
Conlon, John, Plattsburg, N. Y. Radiator for automobile cooling systems. No. 1,398,176; Nov. 22.
Consolidated Mining & Smelting Company of Canada, The. (See Thom, C., Diamond, and Blaylock, assignors.)
Coomer, James J., Hoboken, N. J., assignor to Munson Supply Company, New York, N. Y. Pneumatic cushion for beds. No. 1,397,676; Nov. 22.
Cooney, Albert E., Detroit, Mich., assignor to Dodge Brothers. Automobile-support. No. 1,398,066; Nov. 22.
Cooper, William H. (See Kathcart, Samuel M., assignor.)
Corbin, John C., Seattle, Wash. Condenser. No. 1,397,621; Nov. 22.
Cormany, Ralph B., and A. F. Herring, Rome, Ga. Combined recorder and register. No. 1,397,502; Nov. 22.
Cornelison, Floyd, Milwaukee, Wis. Vehicle suspension means. No. 1,397,923; Nov. 22.
Cornelius, Carl-Oscar E., Stockholm, Sweden. Production of zinc. No. 1,398,006; Nov. 22.
Corrall, Herbert, Helensburgh, Scotland, assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,397,622; Nov. 22.

Coryell, Charles N., Mamaroneck, N. Y. Flask. No. 1,398,067; Nov. 22.
Coryell, Charles N., Mamaroneck, N. Y. Flask. No. 1,398,068; Nov. 22.
Cosgray, Mark C., assignor to Matthews Engineering Company, Sandusky, Ohio. Engine-controller. No. 1,397,503; Nov. 22.
Costello, Frank J., assignor to Federal Tin Company, Inc., Baltimore, Md. Hose-clamp. No. 1,397,943; Nov. 22.
Coughlin, Arthur, *et al.* (See Gable, Jacob W., assignor.)
Coula, George R., Detroit, Mich. Tool-holder. No. 1,397,796; Nov. 22.
Cox Brass Manufacturing Company. (See Cox, William G., assignor.)
Cox, George, Black Earth, Wis. Dirigible headlight. No. 1,397,754; Nov. 22.
Cox Manufacturing Company. (See Cox, William G., assignor.)
Cox, William G., Cleveland, Ohio, assignor to Cox Manufacturing Company, Albany, N. Y. Attaching device for automobile-buffers. No. 1,398,080; Nov. 22.
Cox, William G., Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y. Spring-bumper for automobiles. No. 1,398,177; Nov. 22.
Craig, Thomas J. L., assignor of one-half to Whipp Bros. & Tod Limited, Manchester, England. Fireproofing of textile fabrics and other porous articles. No. 1,397,858; Nov. 22.
Crandon, J. B., Company. (See Crandon, Joseph B., assignor.)
Crandon, Joseph B., assignor to J. B. Crandon Company, Portland, Me. Attachment for sulfur-burners. No. 1,397,724; Nov. 22.
Crawford, Miner. (See Northcutt, J. G., and Crawford.)
Crosby, John P., St. Louis, Mo. Window-sash fastener. No. 1,397,923; Nov. 22.
Crown Cork and Seal Company of Baltimore City, The. (See Belden, Clements G., assignor.)
Cru Patents Corporation. (See Wenderhold, W., and Uebelmesser, assignors.)
Csanyi, Henry, New York, N. Y. Carbureter. No. 1,398,007; Nov. 22.
Cunningham, James, Bathgate, assignor of one-half to Dickson and Mann Limited, Armadale, Linlithgowshire, Scotland. Handbrake for railway-vehicles. No. 1,397,797; Nov. 22.
Currier, Earl J., Ottumwa, Iowa. Safety foot-throttle for automobiles. No. 1,397,798; Nov. 22.
Curtis & Co., Mfg. Co. (See Steedman, Edwin H., assignor.)
Cutten, Elisha B., Minneapolis, Minn. Electrolytic cell. No. 1,397,799; Nov. 22.
D & L Mfg. Co. (See Dorn, H. C., and Luedke, assignors.)
Dahl, John L., Teaneck, N. J. Stake-pocket. No. 1,397,725; Nov. 22.
Daisell, Thomas J., Wakefield, Mass. Calculating device. No. 1,397,944; Nov. 22.
Dann, James E., Brooklyn, N. Y., assignor to The American Laundry Machinery Company, Norwood, Ohio. Washer-timing device. No. 1,397,726; Nov. 22.
Darby, John, assignor of one-half to E. F. Flindell, Summit, N. J. Intermittent drive and framing device for motion-picture machines. No. 1,398,128; Nov. 22.
Davenport Locomotive Works. (See Backer, Elmer F., assignor.)
Davis, Samuel S., Kentland, Ind. Drain. No. 1,398,007; Nov. 22.
Deckert, Virgil F., Minneapolis, Minn. Tractor. No. 1,397,755; Nov. 22.
Dederich, Joseph S., Racine, Wis. Device for loosening compressed material. No. 1,398,129; Nov. 22.
De Forest, Lee, assignor to De Forest Radio Telephone and Telegraph Company, New York, N. Y. Selective audion amplifier. No. 1,397,575; Nov. 22.
De Forest Radio Telephone and Telegraph Company. (See De Forest, Lee, assignor.)
Deitz, Abraham, *et al.* (See Franklin, Jacob M., assignor.)
Deitz, Emanuel, *et al.* (See Franklin, Jacob M., assignor.)
De Lavaud, Dimitri S., New York, N. Y. Rotary casting. No. 1,398,008; Nov. 22.
Delion Tire and Rubber Company. (See Kennedy, John F., assignor.)
DeLukacsevics, Charles, and E. Loffler, New York, N. Y. Piston. No. 1,398,178; Nov. 22.
DeMattos, Walter, Ottawa, Ontario, Canada. Means for supplying temporary table-covers. No. 1,397,800; Nov. 22.
Dennis, Samuel K., Chicago, Ill., assignor to International Harvester Company. Cultivator. No. 1,397,945; Nov. 22.
De Paoli, Bruno O. A., Palisade, N. J. Terrazzo flooring. No. 1,397,678; Nov. 22.
Derby Textile Co., The. (See Gager, Edwin B., Jr., assignor.)
Deri, Bruno, New York, N. Y. Swimming appliance. No. 1,398,130; Nov. 22.
Deruiseaux, Dolphis, and F. S. Capron, Taunton, Mass. Auto traction-chain. No. 1,398,009; Nov. 22.
De Stoutz, Robert. (See Juvet, R., and de Stoutz.)
De Tartas, Augustus R., *et al.* (See Mladinich, Frank, assignor.)
Detroit Pressed Steel Company. (See Flintermann, Gerhard, G. C., assignor.)
Diamond Electric Specialties Corp. (See Shaw, L. E., and Rosenfeld, assignors.)
Diamond, Ralph W. (See Thom, C., Diamond, and Blaylock.)
Dickens, Benjamin F., Vancouver, British Columbia, Canada. Window-wedge. No. 1,397,859; Nov. 22.
Dickson and Mann Limited. (See Cunningham, James, assignor.)
Dieckmann, Carl F., assignor to Eugene Dietzgen, Company, Chicago, Ill. Attachment for drawing-boards. No. 1,398,090; Nov. 22.
Dierks, John, Sulphur Springs, Tex. Stock-feeder. No. 1,398,179; Nov. 22.
Dietrich, Edward, Henryville, Ind. Socket-wrench. No. 1,398,180; Nov. 22.
Dietzgen, Eugene, Company. (See Dieckmann, Carl F., assignor.)
Dillard, William J., and J. D. Taylor, Portland, Oreg. Automatic weather-strip. No. 1,398,181; Nov. 22.
Diner, Jacob, New York, N. Y., assignor to Manila Sterilizing Corporation, Manila, Philippine Islands. Sterilizing process. No. 1,397,504; Nov. 22.
Dion Amédée, and D. Ste-Thérèse de Blainville, Quebec, Canada. Threshing-machine. No. 1,397,727; Nov. 22.
Dion, Bruno. (See Dion, Amédée and B.)
Dixon, Thomas B., New York, N. Y. Telegraphy. No. 1,397,576; Nov. 22.
Dodge Brothers. (See Cooney, Albert E., assignor.)
Doelckner, Max A., Louisville, Ky. Clamp. No. 1,398,091; Nov. 22.
Doerr, Fred H., Grand Rapids, Mich., assignor, by mesne assignments, to W. D. Bleick, Newark, N. J. Computing-machine. No. 1,398,068; Nov. 22.
Dorn, Henry C. and H. A. Luedke, assignors to D & L Mfg. Co., Milwaukee, Wis. Reinforcing-corner for receptacles. No. 1,397,623; Nov. 22.
Dossin, Charles G., Meriden, Conn. Tobacco-pipe. No. 1,397,946; Nov. 22.
Dover, Horace W., St. James, England. Hand-wheel. No. 1,398,069; Nov. 22.
Dow Chemical Company, The. (See Seaton, Max Y., assignor.)
Dow, Sam, Boston, Mass. Detachable rubber heel for shoes. No. 1,397,834; Nov. 22.
Doyle, Thomas G., Fall River, Mass. Adjustable bit. No. 1,398,070; Nov. 22.
Drake, Tom, Broadheath, assignor to Linotype and Machinery Limited, London, England. Keyboard mechanism of typographical composing and other key-controlled machines. No. 1,398,092; Nov. 22.
Draper Corporation. (See Rhoades, Alonzo E., assignor.)
Droppleman, William J., McWhorter, W. Va. Gas casing head. No. 1,398,093; Nov. 22.
Drotar, John, Washington, D. C. Direction-indicator for automobiles. No. 1,397,801; Nov. 22.
Drysdale, Henry, London, England. Paper container. No. 1,397,756; Nov. 22.
Dudley, Howard M., Philadelphia, Pa. Dyeing-machine. No. 1,397,860; Nov. 22.
Duff Manufacturing Company, The. (See Kopf, John C., assignor.)
Duff Manufacturing Company, The. (See Schwerin, Frank H., assignor.)
Duncan, Blain, *et al.* (See Gable, Jacob W., assignor.)
Duncan, Hayes H., and C. C. Willoughby, Philadelphia, Pa. Lock and seal for car-doors. No. 1,398,094; Nov. 22.
Dunlap, Lester G., Stockton, Calif. Digger-chain for ditch-digging machines. No. 1,397,679; Nov. 22.
Dunn, Frank B., Conneaut, Ohio. Paving-brick. No. 1,397,505; Nov. 22.
Durning, Charles, Philadelphia, Pa. Automobile-signal. No. 1,397,947; Nov. 22.
Dutreux, Auguste, Paris, assignor to Societe Anonyme pour l'Equipment Electrique des Vehicules, Issy les Moulineaux, France. Ignition apparatus for internal-combustion engines. No. 1,397,861; Nov. 22.
Dwyer, William, assignor to Four-In-One Safety Razor Company, Pittsburgh, Pa. Safety-razor. No. 1,398,182; Nov. 22.
Ebaugh, Thomas A., Kansas City, Mo. Confection apparatus. No. 1,397,757; Nov. 22.
Eckart, Charles F., Honolulu, Hawaii. Method and means for enhancing the growth of plants. (Reissue.) No. 15,231; Nov. 22.
Egar, Lorentz E., and N. C. L. Wilhjelm, Brooklyn, N. Y., assignor to Automatic Temperature Control Co. Automatic valve-regulators. No. 1,397,680; Nov. 22.
Ege, Alfred, Sioux Falls, S. D. Controlling device for windmills. No. 1,397,802; Nov. 22.
Ehrhart, Raymond N., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Co. Multiple-stage ejector. No. 1,397,924; Nov. 22.
Elsman, Adam J., Buffalo, N. Y. Door-check. No. 1,398,010; Nov. 22.
Ekas, Levi B., Williamstown, W. Va. Well-drilling machine. No. 1,397,758; Nov. 22.
Electric Auto-Lite Corporation. (See Buchenberg, Alvin E., assignor.)
Electric Auto-Lite Corporation. (See Wollenweber, Paul F., assignor.)
Electro-Thermophore Company. (See Lidberg, Tiodolf, assignor.)
Elektrizitätswerk Lonza. (See Lichtenhahn, Theodor, assignor.)
Elliott, Otto A. (See Fetzer, W., Freres, and Elliott.)

Elmer, Martin, Hastings, Mich. Styling-holder for phonograph-reproducers. No. 1,397,835; Nov. 22.

Emeloid Company, The. (See Madan, E. K., and Levine, assignors.)

Engel, William C., assignor of one-third to E. L. Hohenstein and one-third to F. Schott, St. Louis, Mo. Lifting-jack. No. 1,397,925; Nov. 22.

Engelland, Julius, St. Louis, Mo. Loose-leaf binder. No. 1,397,577; Nov. 22.

Ensor, C. Frank. (See Stansbury, Harry S., assignor.)

Ensor, Harold E., Canterbury, and J. Sampson, Sydenham, Christchurch, New Zealand. Headlight. No. 1,397,803; Nov. 22.

Enterprise Railway Equipment Company. (See Campbell, Argyle, assignor.)

Epling, Giles T., Welch, W. Va. Hand-guard. No. 1,397,624; Nov. 22.

Eriksson, Peter S., assignor to Brown Portable Conveying Machinery Company, Chicago, Ill. Bearing. No. 1,397,948; Nov. 22.

Errington, Thomas A. E., Seattle, Wash. Extension-light for automobiles. No. 1,398,011; Nov. 22.

Essex Motors. (See Fekete, Stephen I., assignor.)

Evans, Fred, Summit, N. J., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Pressure-gage. No. 1,397,728; Nov. 22.

Evans, Marvin, Pharr, Tex. Dredge. No. 1,398,131; Nov. 22.

Evansville Arbor Press Company. (See Taylor, Robert W., Sr., assignor.)

Explorer Manufacturing Corporation. (See Geddes, Charles A., assignor.)

Fafnir Bearing Company, The. (See Sellew, Roland W., assignor. (Reissue.)

Fagrie, Philip T., Seattle, Wash. Adjustable straightedge, plumb and level. No. 1,398,183; Nov. 22.

Farnes, Matthew H., Logan, Utah. Stove. No. 1,397,506; Nov. 22.

Fedders, John M., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Radiator unit. No. 1,397,625; Nov. 22.

Fedders Manufacturing Company. (See Fedders, John M., assignor.)

Federal Stamping Company. (See Olinger, Thomas, assignor.)

Federal Tin Company Inc. (See Costello, Frank J., assignor.)

Fekete, Stephen I., assignor to Essex Motors, Detroit, Mich. Transmission-lock. No. 1,397,926; Nov. 22.

Feldkamp, Frederick A., Newark, N. J. Duplex-fuse cartridge. No. 1,397,804; Nov. 22.

Feldkamp, Frederick A., Newark, N. J. Fuse-cartridge. No. 1,397,805; Nov. 22.

Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Method and apparatus for submarine signaling. No. 1,397,949; Nov. 22.

Fessenden, Reginald A., Chestnut Hill, Mass., assignor to Submarine Signal Company, Portland, Me. Stop-clock. No. 1,397,950; Nov. 22.

Fetzer, William, J. G. Freres, Springfield, and O. A. Elliott, Marion, assignors to International Sanitation & Development Company, Springfield, Ill. Incinerating-furnace. No. 1,398,184; Nov. 22.

Fields, Will G. (See Chewning, Eugene F., assignor.)

Fischer, Ferdinand, Berlin, Germany. Universal joint. No. 1,397,951; Nov. 22.

Fitch, Albert L., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission system. No. 1,397,862; Nov. 22.

Fitzgerald, Fred. (See Jewett, C. E., and Fitzgerald.)

Fleck, Albert H., Lakewood, Ohio. Bobbin-holder. No. 1,397,927; Nov. 22

Flindell, Edwin F. (See Darby, John, assignor.)

Flintermann, Gerhard G. C., Detroit, Mich., assignor to Detroit Pressed Steel Company, Wilmington, Del. Demountable-wheel support. No. 1,397,626; Nov. 22.

Flitcraft, John M., Elkhart, Iowa. Jar-fountain waterer. No. 1,397,627; Nov. 22.

Flitcraft, John M., Elkhart, Iowa. Clothes-tongs. No. 1,397,628; Nov. 22.

Flour City Plow Company. (See Hartsough, Ralph B., assignor.)

Floyd-Wells Co., The. (See Carter, Charles D., assignor.)

Fokken, George W., and A. Armbruster, Detroit, Mich. Attachment for motors. No. 1,398,095; Nov. 22.

Forester, James, New York, N. Y. Sanitary wardrobe-shelf. No. 1,398,071; Nov. 22.

Forsberg, Albin L., Chicago, Ill., assignor to Thomson and Taylor Spice Company. Pouring-spout. No. 1,397,952; Nov. 22.

Foss, W. H., Co. (See Foss, Wallace H., assignor.)

Foss, Wallace H., Cambridge, assignor to W. H. Foss Co., Inc., Boston, Mass. Shank-stiffener. No. 1,397,681; Nov. 22.

Foster, Claud H., Wickliffe-on-the-Lake, Ohio. Liquid-fuel-heating device. No. 1,398,012; Nov. 22.

Foster, Walter H. (See Woods, Norman E., assignor.)

Four-in-One Safety Razor Company. (See Dwyer, William, assignor.)

Frair, Chester, Seattle, Wash. Work-holding stand. No. 1,398,006; Nov. 22.

Franklin, Frederick W., Syracuse, N. Y. Automobile-hood clip. No. 1,397,759; Nov. 22.

Franklin, Jacob M., Brooklyn, assignor of one-third to E. Deitz and one-third to A. Deitz, New York, N. Y. Garment-pocket. No. 1,397,729; Nov. 22.

Freres, John G. (See Fetzer, W., Freres, and Elliott.)

Freud, Bernard. (See Rozowski, Edmund, assignor.)

Fried, John, Peoria, Ill. License-tag holder. No. 1,397,730; Nov. 22.

Frohmuth, William J., and D. E. Cohagen, Fort Wayne, Ind. Reel. No. 1,398,185; Nov. 22.

Fry, Henry E., Dorchester, England. Manure. No. 1,397,629; Nov. 22.

Fuerth, William G., Newark, N. J., assignor, by mesne assignments, to Underwood Typewriter Company, New York, N. Y. Stenciling. No. 1,398,013; Nov. 22.

Fulton, Clarence E., Tarentum, Pa., assignor to Pittsburgh Plate Glass Company. Manufacture of earthenware. No. 1,398,014; Nov. 22.

Gable, Jacob W., assignor of two-thirds to A. Coughlin and B. Duncan and one-third to A. W. Hutton and P. D. Astry, Cleveland, Ohio. Self-locking damper-regulator. No. 1,397,953; Nov. 22.

Gager, Edwin B., Jr., assignor to The Derby Textile Co., Derby, Conn. Reel for strip material. No. 1,397,954; Nov. 22.

Gallo, Thomas, New York, N. Y. Camera. No. 1,398,072; Nov. 22.

Gandion, Louis D., San Francisco, Calif. Truss. No. 1,397,863; Nov. 22.

Gartung, Frederick H., *et al.* (See Allington, John L., assignor.)

Gas Research Company, The. (See Smith, Harry F., assignor.)

Gasda, Stephen A., and D. R. Cahill, Bethlehem, Pa. Graphic recording mechanism for spinning-machines. No. 1,397,578; Nov. 22.

Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Thread-controlling mechanism for multiple-needle sewing-machines. No. 1,397,507; Nov. 22.

Gansenhuber, John N., Altoona, Pa. Combined shade-roller and curtain-supporting bracket. No. 1,397,806; Nov. 22.

Geddes, Albert H., Brooklyn, N. Y. Auxiliary traction device for motor-vehicles. No. 1,398,015; Nov. 22.

Geddes, Charles A., assignor to Explorer Manufacturing Corporation, Philadelphia, Pa. Carbonator and draft-arm for soda-water. No. 1,397,929; Nov. 22.

Gehenniaux, Arthur. (See Beck, Charles L., assignor.)

Geier, Philip A., and Frank E. Robertson, assignors to The P. A. Geier Company, Cleveland, Ohio. Handle member. No. 1,397,682; Nov. 22.

Gibbons, Archie W., Kansas City, Mo. Automobile flow-line protector. No. 1,397,630; Nov. 22.

Gibson, Norman R., Niagara Falls, Ontario, Canada. Measurement of the flow of fluids in closed conduits. No. 1,398,097; Nov. 22.

Gibson, Preston C., Girard, Ill. Automobile-lifting device. No. 1,398,186; Nov. 22.

Gifford, Bert L., and E. B. Gifford, Barker, assignors, by mesne assignments, to The Rex Company, Rochester, N. Y. Assorting-machine. No. 1,397,955; Nov. 22.

Gifford, Edgar B. (See Gifford, Bert L. and E. B.)

Gillet, Alexis F., assignor to Jubilee Manufacturing Company, Omaha, Nebr. Clamp. No. 1,397,508; Nov. 22.

Gilliland, Orra L., assignor to National Shock Loader Co., Minneapolis, Minn. Loader. No. 1,397,956; Nov. 22.

Gilson, Henry R., New Rochelle, N. Y., assignor to The Hartford Rubber Works Company. Duplex mold. No. 1,398,073; Nov. 22.

Gisholt Machine Company. (See McCabe, Horace B., assignor.)

Godfrey, John F., Elkhart, Ind. Reclaiming and conveying buckets. No. 1,397,509; Nov. 22.

Goetz, John, Wauwatosa, and F. A. Parsons, Milwaukee, assignors to The Kempsmith Manufacturing Co., West Allis, Wis. Table-operating mechanism for machine-tools. No. 1,397,731; Nov. 22.

Goldberg, Hyman E., (now by judicial change of name H. Golber,) Chicago, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y. Algebraic-total calculating-machines. No. 1,398,074; Nov. 22.

Goodchild, Walter, Hoboken, N. J., assignor, by mesne assignments, to Nips, Incorporated. Apparatus and process for filling and closing capillary containers. No. 1,397,631; Nov. 22.

Goodloe, Aarciel E., Chattanooga, Tenn. Surgical instrument. No. 1,397,732; Nov. 22.

Grassl, Joseph G., Dayton, Ohio. Depositor for mashed potatoes and other plastic materials. No. 1,397,510; Nov. 22.

Green, Charles F., assignor to The Willys-Overland Co., Toledo, Ohio. Windshield-cleaner. No. 1,397,511; Nov. 22.

Greener, Herman M., Chicago, Ill. Culinary implement. No. 1,397,512; Nov. 22.

Griffith, Evan J., Riverton, Wyo. Safety-key for drilling-rigs. No. 1,397,864; Nov. 22.

Griffith, Richard H., assignor to The Ohio Cultivator Company, Bellevue, Ohio. Soil-pulverizer implement. No. 1,397,683; Nov. 22.

Guest, James J., London, England. Cutter-grinding machine. No. 1,398,187; Nov. 22.

Guinsburg, George E., assignor to I. B. Kleinert Rubber Company, New York, N. Y. Garment-protector. No. 1,397,579; Nov. 22.

Gullet, Stanley, Barnes, London, England. Button. No. 1,397,597; Nov. 22.

Gutwaller, Joseph L., and F. W. Kublin, St. Louis, Mo. Trolley. No. 1,397,760; Nov. 22.

Hagenstrom, John A., Cranford, N. J., assignor to Victor Typewriter Company, Scranton, Pa. Ribbon-movement for typewriters. No. 1,397,515; Nov. 22.

Hahn, Albert W., New York, N. Y. Cyanid process. No. 1,397,684; Nov. 22.

Haines, Frederick W., township of Sandwich East, Ontario, Canada, and F. L. Sorensen, assignors, by direct and mesne assignments, to The Metal Protection Laboratory, Detroit, Mich. Depositing a metallic coating on various metal articles or objects. No. 1,397,514; Nov. 22.

Hammond, William P. (See Moses, Edmund Q., assignor.)

Hanable, Carl F., Negley, Ohio, assignor of one-half to J. K. Bishop, Beaver Falls, Pa. Smoking-pipe. No. 1,397,958; Nov. 22.

Hand, Jay A. (See Pelton, C. R., and Hand.)

Hargood, Harry W., Seattle, Wash. Valve mechanism. No. 1,397,685; Nov. 22.

Harrington, George F., and A. J. Podawiltz, Eau Claire, Wis. Coupon-carrying device. No. 1,397,515; Nov. 22.

Hart, David B., New York, N. Y. Trunk construction. No. 1,398,016; Nov. 22.

Hart, Harry S., assignor to Badger Ballast Car Company, Chicago, Ill. Convertible-car construction. No. 1,397,686; Nov. 22.

Hartford Rubber Works Company, The. (See Gilson, Henry R., assignor.)

Hartsough, Ralph B., assignor to Flour City Plow Company, Minneapolis, Minn. Plow. No. 1,398,075; Nov. 22.

Hauser, Henry J. (See Leonard, C. D., and Hauser.)

Hawkins, Arthur W., assignor to Chicago Railway Equipment Company, Chicago, Ill. Third-point support for brake-beams. No. 1,397,560; Nov. 22.

Hawkins, Arthur W., assignor to Chicago Railway Equipment Company, Chicago, Ill. Safety-guard, release, and support for brake-beams. No. 1,397,561; Nov. 22.

Hawkins, Thomas, assignor of one-half to C. R. H. Rex, Slatington, Pa. Manufacture of explosives. No. 1,398,098; Nov. 22.

Hayes, Thomas J., Roslindale, assignor to Arbetter Felling Machine Company, Boston, Mass. Presser-foot for blindstitch sewing-machines. No. 1,397,516; Nov. 22.

Hausser, Edgar W., New York, N. Y. Electric signal. No. 1,397,582; Nov. 22.

Hazlewood, John J., Pittsburgh, Pa. Transfer means. No. 1,398,188; Nov. 22.

Healy, Frank C., South Boston, Mass. Jack. No. 1,398,122; Nov. 22.

Heath, Samuel, Philadelphia, Pa. Bread-toaster. No. 1,397,959; Nov. 22.

Hecht, Charles E., Irvington, N. J. Brush-hanger. No. 1,397,807; Nov. 22.

Heineke, Emil M., Springfield, Ill. Car-check holder. No. 1,397,889; Nov. 22.

Heitman, John, Seattle, Wash. Phonograph-record cabinet. No. 1,397,517; Nov. 22.

Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Predetermined-weight scale. No. 1,397,518; Nov. 22.

Herring, Albert F. (See Cormany, R. B., and Herring.)

Hersog, John, Saginaw, Mich., assignor to Sonora Phonograph Company, Inc., New York, N. Y. Resonator. No. 1,397,733; Nov. 22.

Hewitt, William J., Bloomfield, N. J. Window-screen. No. 1,398,017; Nov. 22.

Heyman, Benjamin, assignor to Oxweld Acetylene Company, Newark, N. J. Nozzle for oxyacetylene and similar torches. No. 1,397,519; Nov. 22.

Highfield, George A., Scranton, Pa. Smoking-pipe. No. 1,397,832; Nov. 22.

Hill, Hugh G., assignor, by mesne assignments, to Whitaker-Glessner Company, Wheeling, W. Va. Can-seaming machine. No. 1,398,018; Nov. 22.

Hilliard, Lena C., Boston, Mass. Measuring apparatus for corsets. No. 1,397,865; Nov. 22.

Hines, Joseph H., Auburn, Calif. Rock-drill-sharpening device. No. 1,397,960; Nov. 22.

Hitchcock, Halbert K., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Glass-drawing apparatus. No. 1,398,019; Nov. 22.

Hite, Alva L., Pomeroy, Ohio. Reel for electric-wire connections. No. 1,397,638; Nov. 22.

Hodges, Walter E., and C. F. Larsclere, Flint, Mich. Fishing-line reel. No. 1,398,189; Nov. 22.

Hoelscher, Edwin W., St. Louis, Mo. Combined ticket-holder and lid-sustainer. No. 1,397,734; Nov. 22.

Hohenstein, Edward L., *et al.* (See Engel, William C., assignor.)

Holden & White Inc. (See Bakstad, Johan R., assignor.)

Holland, Charles E., Brooklyn, N. Y. Recovering coal, held in suspension, from coal-bearing water and streams. No. 1,397,735; Nov. 22.

Holland, Newman H., assignor to New Jersey Patent Company, West Orange, N. J. Transmitter and circuits therefor No. 1,397,687; Nov. 22.

Holley, Henry E., Otisville, N. Y. Demountable wheel. No. 1,398,020; Nov. 22.

Holley, William V., assignor to New York Bath Manufacturing, Inc., New York, N. Y. Collapsible seat for children. No. 1,398,021; Nov. 22.

Holmes, Mary J. (See Horne, Carl R., assignor.)

Holmquist, Sven A., Tacoma, Wash. Cabinet-maker's clamp. No. 1,397,961; Nov. 22.

Holybee, Charles F., Hotchkiss, Colo. Chain-fastener. No. 1,398,099; Nov. 22.

Homewood, Fred A., Glendo, Wyo. Spark-plug. No. 1,397,634; Nov. 22.

Honsinger, Orman A., Tacoma, Wash. Folding davenport-bed. No. 1,397,962; Nov. 22.

Honsinger, Orman A., Tacoma, Wash. Davenport-back. No. 1,397,963; Nov. 22.

Hooper, Harris G., Los Angeles, Calif. Flying-machine. No. 1,397,761; Nov. 22.

Hopkins, Mark A., Brooklyn, N. Y. Dish-washing machine. No. 1,398,022; Nov. 22.

Horne, Carl R., assignor to M. J. Holmes, Philadelphia, Pa. Nozzle. No. 1,398,133; Nov. 22.

Hornlack, John G., Hawley, Pa. Railway-tie. No. 1,397,964; Nov. 22.

Hotson, John H., Mount Vernon, N. Y. Attachment for desk-drawers and the like. No. 1,398,023; Nov. 22.

Howard, Alfred A., Waddy, Ky. Planter. No. 1,398,190; Nov. 22.

Howarth, William, Devon, Conn. Nut-lock. No. 1,397,808; Nov. 22.

Howe, Harold C., Rutland, Vt., assignor to Sealright Co., Inc., Fulton, N. Y. Filling containers with ice-cream. No. 1,397,520; Nov. 22.

Huber, William C., Fostoria, Ohio. Chick-box. No. 1,397,583; Nov. 22.

Hudson Motor Specialties Company. (See Hudson, William F., assignor.)

Hudson, William F., assignor to Hudson Motor Specialties Company, Philadelphia, Pa. Clutch-band and casing therefor. No. 1,398,191; Nov. 22.

Huntington, Henry J., *et al.* (See Lippitt, Elihu, assignor.)

Hurlburt, Watson, Chicago, Ill. Electrode for annealing and heating systems. No. 1,398,192; Nov. 22.

Hurt, Samuel N., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,397,521; Nov. 22.

Hutchinson, Joseph, Montreal, Quebec, Canada. Restaurant service device. No. 1,397,809; Nov. 22.

Hutton, A. W., *et al.* (See Gable, Jacob W., assignor.)

Illinois Tool Works. (See Olson, Carl G., assignor.)

Industrial Chemical Company. (See Wickenden, Leonard, assignor.)

Inman, Walter A. (See Boyle, J. P., and Inman.)

International Fuel Conservation Co. (See Anderson, Robert J., assignor.)

International Harvester Company. (See Benjamin, Bert R., assignor.)

International Harvester Company. (See Dennis, Samuel K., assignor.)

International Sanitation & Development Company. (See Fetzer, W., Freres, and Elliott, assignors.)

Jaciuk, George, Chicago, Ill. Combined mop and scrubber. No. 1,397,584; Nov. 22.

Jackson, Charles C. (See Shand, W. L. and A. M., assignors.)

Jacobs, Isidor M., Kansas City, assignor, by mesne assignments, to Truck, Tractor and Manufacturing Company, St. Louis, Mo. Means for suspension of engines in motor-vehicles. No. 1,398,024; Nov. 22.

Jacobs, Joseph, Brooklyn, N. Y. Oiling device for fiber silk and the like. No. 1,397,522; Nov. 22.

James, Robert L., Birmingham, Ala. Brake-holding device. No. 1,397,866; Nov. 22.

James, William A., London, England. Valve mechanism for internal-combustion engines. No. 1,397,585; Nov. 22.

James, William F., Honolulu, Hawaii. Oil-tank valve. No. 1,398,025; Nov. 22.

Janesville Machine Company, The. (See Krotz, Alvaro S., assignor.)

Jannoch, Paul W., Pasadena, Calif. Glass-house roofing. No. 1,397,762; Nov. 22.

Jefferies, John L., St. Louis, Mo. Clamp. No. 1,397,930; Nov. 22.

Jeffrey Manufacturing Company. (See Leggett, William K., assignor.)

Jenkins, John C., *et al.* (See Ball, George S., assignor.)

Jenks & Muir Manufacturing Company. (See Muir, William H., assignor.)

Jerdone, Francis, Jr., assignor to The Willys-Overland Company, Toledo, Ohio. Fuel-reserve-supply system for self-propelled vehicles. No. 1,397,523; Nov. 22.

Jewett, Charles E., North Andover, and F. Fitzgerald, Lawrence, Mass. Brush. No. 1,397,586; Nov. 22.

Johnson, Carter J., Green Bay, Wis. Turnbuckle-wrench. No. 1,397,810; Nov. 22.

Johnson, Edward, Burslem, Stroke-upon-Trent, England. Power-driven press. No. 1,397,890; Nov. 22.

Johnson, James G., Chicago, Ill. Garment-press. No. 1,397,635; Nov. 22.

Johnson, Thomas W., Denver, Colo. Cuspidor. No. 1,397,636; Nov. 22.

Johnston, Albert W. (See Stevenson, Albert F., assignor.)

Johnston, Andrew L., Jr., Richmond, Va. Safety-razor. No. 1,398,193; Nov. 22.

Jones, Raymond H., Marysville, Calif. Seal-lock. No. 1,397,587; Nov. 22.

Jones, Robert P., Port Arthur, Tex. Oil-trap. No. 1,397,891; Nov. 22.

Jones, Robert P., Port Arthur, Tex. Oil-trap. No. 1,397,892; Nov. 22.

Jones, Thomas G., Philadelphia, Pa. Valve. No. 1,397,867; Nov. 22.

Joyce, William H., Leadville, Colo. Water-rigging for stoping-drills. No. 1,398,100; Nov. 22.

Jubilee Manufacturing Company. (See Gillet, Alexis F., assignor.)

Jurowski, Edward, Baltimore, Md. Igniting device. No. 1,397,637; Nov. 22.

Juvet, de Stoutz, & Meyer. (See Juvet, R., and de Stoutz, assignors.)

Juvet, Roger, and D. de Stoutz, assignors to the Firm of Juvet, de Stoutz & Meyer, Zurich, Switzerland. Exhibition-car. No. 1,397,965; Nov. 22.

Karns, Ira A., Tulsa, Okla. Sand-settler. No. 1,397,836; Nov. 22.

Kass, Peter, assignor of one-third to E. Brittain and one-third to J. A. Acker, Chicago, Ill. Upper buffer for vestibule-cars. No. 1,397,588; Nov. 22.

Kathcart, Samuel M., assignor of one-half to W. H. Cooper, Leadwood, Mo. Wrench. No. 1,397,638; Nov. 22.

Kay, Harry, Bury, England. Driving-gear especially for groups of rolls. No. 1,397,693; Nov. 22.

Keesler, Clyde C., and F. A. Clock, assignors to Watson Wagon Company, Canastota, N. Y. Fifth-wheel construction. No. 1,397,688; Nov. 22.

Kehoe, Thomas J., assignor to The Willys-Overland Company, Toledo, Ohio. Automobile-lock. No. 1,397,524; Nov. 22.

Kelday, Arthur H., London, England. Signaling apparatus for use on road-vehicles. No. 1,397,639; Nov. 22.

Kelly Button Machine Company. (See Kelly, John, assignor.)

Kelly, John, assignor to Kelly Button Machine Company, Inc., Norfolk, Va. Button-feeding instrumentality for button-setting machines. No. 1,398,026; Nov. 22.

Kelly, John, assignor to Kelly Button Machine Company, Inc., Norfolk, Va. Button-setting machine. No. 1,398,027; Nov. 22.

Kelly, Pascal M., Imlhart, Tex. Spur. No. 1,397,966; Nov. 22.

Kempsmith Manufacturing Co., The. (See Goetz, J., and Parsons, assignors.)

Kendall, Donald S. (See Novotny, E. E., and Kendall.)

Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,397,967; Nov. 22.

Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical distributing-machine. No. 1,397,968; Nov. 22.

Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,397,969; Nov. 22.

Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Keyboard mechanism for typographical machines. No. 1,397,970; Nov. 22.

Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,397,971; Nov. 22.

Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical distributing-machine. No. 1,397,972; Nov. 22.

Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical composing-machine. No. 1,397,973; Nov. 22.

Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,397,974; Nov. 22.

Kennedy, John E., Glens Falls, N. Y., assignor to The Willys-Overland Company, Toledo, Ohio. Means for measuring vibrations. No. 1,397,525; Nov. 22.

Kennedy, John F., assignor to Delion Tire and Rubber Company, Baltimore, Md. Adjustable banding-board. No. 1,397,763; Nov. 22.

Kimball, Don L., Portland, Oreg., assignor to Universal Transmission Co., Seattle, Wash. Transmission mechanism. No. 1,398,101; Nov. 22.

Kincaid, Archibald S., assignor to L. L. Patterson, Seattle, Wash. Charge-humidifying device for internal-combustion engines. No. 1,397,837; Nov. 22.

King, Edward F., assignor, by direct and mesne assignments, to What Cheer Braid Company, Providence, R. I. Tip for lacings. No. 1,397,526; Nov. 22.

King, John O. (See Pohl, Charles, assignor.)

Kirk, Thomas S. (See Pringle, A., and Kirk.)

Kleinert, I. B., Rubber Co. (See Guinzburg, George K., assignor.)

Knepper, George E., Altoona, Pa. Car-door mounting. No. 1,397,811; Nov. 22.

Knight, James H., Westtown, Pa. Framing and miter gage. No. 1,397,589; Nov. 22.

Knight, Stephen. (See Rasmussen, Peter, assignor.)

Kobert, Frank P., Amityville, assignor to Kobert Machine Company, Inc., New York, N. Y. Process and apparatus for working metals. No. 1,398,028; Nov. 22.

Kobert Machine Company. (See Kobert, Frank P., assignor.)

Kocjan, Louis, Calumet, Mich. Fire-escape. No. 1,397,640; Nov. 22.

Kolff, Petrus van S., Philadelphia, Pa. Means for detecting changes of resistance in electric currents. No. 1,397,641; Nov. 22.

Kopf, John C., Bellevue borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Self-lowering jack. No. 1,397,867; Nov. 22.

Kopf, John C., Bellevue borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Self-lowering jack. No. 1,397,869; Nov. 22.

Kopf, John C., Bellevue borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Lifting-jack. No. 1,397,870; Nov. 22.

Kopf, John C., Bellevue borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Jack. No. 1,397,871; Nov. 22.

Koppers Company, The. (See van Ackeren, Joseph, assignor.)

Krag, Franz K. (See Nelson, John V., assignor.)

Krippner, John, assignor to American Coke & Chemical Company, Chicago, Ill. Coke-oven-door machine. No. 1,397,736; Nov. 22.

Krotz, Alvare S., assignor to The Janesville Machine Company, Janesville, Wis. Planting-machine. No. 1,397,669; Nov. 22.

Kublin, Frederick W. (See Gatweiler, J. I., and Kublin.)

Kuhlemeier, Frederick J. (See Prell, Henry, assignor.)

Kuhn, George W., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Electrical testing system. No. 1,397,975; Nov. 22.

Kulman, Charles, Brooklyn, N. Y., assignor of one-half to A. E. Thomas, West New York, N. J. Scow. No. 1,397,537; Nov. 22.

Kunishige, Keishiro, Los Angeles, Calif. Takedown table. No. 1,397,764; Nov. 22.

Kurts, Carl A., Sac City, Iowa. Radiator-repair stand. No. 1,397,931; Nov. 22.

Kutner, Solomon, assignor, by mesne assignments, to Rapid Roller Co., Chicago, Ill. Manufacturing printers' rollers. No. 1,397,528; Nov. 22.

Lacy, Benjamin B., Houston, Tex. Turbine governor-valve. No. 1,397,812; Nov. 22.

Lalor, John C. (See Middleton, Percy R., assignor.)

Laminated Coal, Limited. (See Bowen, Richard, assignor.)

Lancia & C. (See Zoppegno, Rodolfo, assignor.)

Landers, Upton S., Bakersfield, Calif. Wheel-rim-clamping device for automobile-tires. No. 1,397,813; Nov. 22.

Landon, Archer A., Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill. Locking mechanism for rotary casting-machines. No. 1,398,134; Nov. 22.

Lang, Elmer L. (See Lang, George H. and E. L.)

Lang, George H. and E. L., Boston, Mass. Marking-machine. No. 1,398,076; Nov. 22.

Lansden, John M., New York, N. Y. Brake. No. 1,397,380; Nov. 22.

Lanyon, Samuel H., Oakland, Calif. Jack. No. 1,397,894; Nov. 22.

Larzelere, Charles F. (See Hodges, W. E., and Larzelere.)

Lauritsen, Charles C., assignor to The Ohio Body & Blower Company, Cleveland, Ohio. Valve. No. 1,397,591; Nov. 22.

Lavoie, Joseph, Montreal, Quebec, Canada. Electric heater. No. 1,397,872; Nov. 22.

Lawrance, Charles L., Bayshore, N. Y. Big-end construction for radial motors. No. 1,398,104; Nov. 22.

Lawrence, William, Chicago, Ill. Auxiliary starter-control device. No. 1,397,690; Nov. 22.

Layman, Hebron B., New York, N. Y., assignor to Never-skid Manufacturing Co., Incorporated. Non-skid and traction chain. No. 1,397,529; Nov. 22.

Leard, Denton, Summerside, Prince Edward Island, Canada. Light-extinguisher. No. 1,397,873; Nov. 22.

Lee, Hugh W. and R. Morrison, assignors to Sir W. G. Armstrong, Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Sighting-gear for guns. No. 1,397,765; Nov. 22.

Lee, John P., Pleasantville, N. Y. Telephone attachment. No. 1,398,029; Nov. 22.

Lefebvre, Regis, Upper Lake, N. Y. Parting-knife. No. 1,397,691; Nov. 22.

Lehman, Charles F., Minneapolis, Minn. Time-controlled electric device. No. 1,397,692; Nov. 22.

Leonard, Charles D. and H. J. Hauser, Rochester, N. Y. Wheeling-coop. No. 1,397,693; Nov. 22.

Levine, Myer P. (See Madan, E. K., and Levine.)

Lewandowski, Jacob. (See Wojcik, Stefan, assignor.)

Lichtenhahn, Theodor, Basel, assignor to Elektrizitätswerk Lonza, Gampel and Basel, Switzerland. Working up residuary ammonium-chlorid liquors from the ammonia-soda process. No. 1,398,135; Nov. 22.

Lidberg, Tiodolf, assignor to Electro-Thermophore Company, Chicago, Ill. Means for controlling temperatures. No. 1,397,694; Nov. 22.

Lidberg, Tiodolf, assignor to Chicago Surgical & Electrical Company, Chicago, Ill. Constant-temperature water-bath. No. 1,397,766; Nov. 22.

Liggett, William K., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Excavating-machine. No. 1,398,195; Nov. 22.

Lindberg, Peter A., Mount Pleasant, Utah. Railway-mail-transferring device. No. 1,398,136; Nov. 22.

Lindenfield, William H., Lexington, Tenn. Oil-cup. No. 1,397,838; Nov. 22.

Ling, Francis E. (See Reif, Joseph, assignor.)

Linotype and Machinery Limited. (See Drake, Tom, assignor.)

Linquist, William, Cleveland, Ohio. Auto-body. No. 1,398,102; Nov. 22.

Lippitt, Elihu, Lakewood, Ohio, assignor, by direct and mesne assignments, of one-half to H. J. Huntington and one-third to S. W. Lippett. Yarn-guide mechanism for knitting-machines. No. 1,398,103; Nov. 22.

Lippitt, Stephen W., et al. (See Lippitt, Elihu, assignor.)

Littman Loxair Valve Corporation. (See Littman, Zeno, assignor.)

Littman, Zeno, New York, N. Y., assignor to Littman Loxair Valve Corporation. Valve. No. 1,397,737; Nov. 22.

Livings, James A., Spring, Tex. Spring-wheel. No. 1,397,839; Nov. 22.

Ljung, John, Alexandria, Minn. Spring suspension for vehicles. No. 1,398,104; Nov. 22.

Lochow, Curt F., Seattle, Wash. Dish-washing machine. No. 1,397,767; Nov. 22.

Loffler, Edmund. (See de Lukacsovics, C., and Loffler.)

Loft Incorporated. (See Wallace, Harvey R., assignor.)

Low, Frank K., Milwaukee, Wis. Blowtorch-valve. No. 1,397,814; Nov. 22.

Lowery, E. P. (See Peden, Francis M., assignor.)

Lox Seal Corporation, The. (See Behrman, Marcus B., assignor.)

Lilbeck, Hilding, Heserud, Sweden. Coupling-key. No. 1,397,530; Nov. 22.

Lucius, Joseph, Champion, Mich. Hatpin-guard. No. 1,397,531; Nov. 22.

Luckenbach Processes Co. (See Luckenbach, Royer, assignor.)

Luckenbach, Royer, Philadelphia, Pa., assignor to Luckenbach Processes Co. (Inc.), San Francisco, Calif. Apparatus for concentrating ore. No. 1,397,815; Nov. 22.

Luedke, Herman A. (See Spera, E. C., and Luedke.)

Luelien, Lawrence W., Mountain Lakes, N. J. Dispensing apparatus for sanitary drinking-cups. No. 1,398,030; Nov. 22.

Lukens, William L. (See Carey, R. R., Lukens, and Mixsell.)

Lumbard, Wiley, Levasy, Mo. Despatch-holder. No. 1,398,137; Nov. 22.

Lund, Clemmen. (See Muhleisen, H. W., and Lund.)

Lundgren, Edwin, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co. Automatic stoker. No. 1,397,642; Nov. 22.

Lyle, Sarah M., Bridgeport, Ohio. Fire-escape. No. 1,397,643; Nov. 22.

Lynch, Thomas, Jefferson, Iowa. Hog-eating poultry-protector or hog-muzzle. No. 1,398,031; Nov. 22.

McAvoy, Charles F., Brooklyn, and D. E. McAvoy, New York, N. Y. Portable building or structure. No. 1,397,976; Nov. 22.

McAvoy, Daniel E. (See McAvoy, C. F. and D. E.)

McCabe, Horace B., assignor to Gisholt Machine Company, Madison, Wis. Ribbon-reversing mechanism for time-recording registers. No. 1,397,895; Nov. 22.

McChesnie, Daniel, Webbwood, Ontario, Canada. Track-walker's jack. No. 1,397,644; Nov. 22.

McClaire, Katherine, Chicago, Ill. Curler. No. 1,397,532; Nov. 22.

McCormick, Andrew. (See Wallis, Thomas M., assignor.)

McCoskrie, Reuben G., Goodland, Kans. Antirattling device. No. 1,398,105; Nov. 22.

McCoy, John D., Kirksville, Mo. Tire-chain tool. No. 1,397,592; Nov. 22.

McCullough, Henry L. (See Ripley, Edward G., assignor.)

McCune, Roy A., East Pittsburgh, Pa. Suspension-bearing. No. 1,398,138; Nov. 22.

McGee, Wilbert R., Seattle, Wash. Cartridge-reloading machine. No. 1,398,106; Nov. 22.

McIntyre, Albert A., Bonners Ferry, Idaho. Making a die. No. 1,398,196; Nov. 22.

McIntyre, Allan. (See Williams, F. P., and McIntyre.)

McKee, Thomas, Portland, Oreg. Perforated and other sheet-music. No. 1,398,107; Nov. 22.

McKone, Leo J., assignor to W. A. Casey, Kansas City, Mo. Valve remover and lifter for internal-combustion engines, &c. No. 1,397,768; Nov. 22.

McLean, Philip S., Bloomfield, N. J., assignor, by mesne assignments, to Benjamin Electric Manufacturing Company, Chicago, Ill. Swivel attachment-plug. No. 1,398,077; Nov. 22.

McMahon, Alexander P., Chicago, Ill. Curtain-stretcher. No. 1,397,533; Nov. 22.

McNeill, Alan M., and W. J. Abbott, Auckland, New Zealand. Binder-case for document and like files. No. 1,397,645; Nov. 22.

McQuinn, John K., Brockton, Mass. Moccasin-slipper. No. 1,398,108; Nov. 22.

Macartney, Arthur C., Syracuse, N. Y. Teat-cup. No. 1,397,840; Nov. 22.

Madan, Edward K., Brooklyn, and M. P. Levine, Mount Vernon, assignors to The Emeloid Company, Brooklyn, N. Y. Sanitary cap. No. 1,398,078; Nov. 22.

Magee, Chauncey L. C., Chicago, Ill. Wagon-lifting apparatus. No. 1,397,893; Nov. 22.

Maisel, Lorenz, assignee to Burgess Battery Company, Madison, Wis. Battery-handlamp. No. 1,397,646; Nov. 22.

Majestic Electric Development Company. (See Brown, E. N., and Shoenberg, assignors.)

Mandalian, Sabatiel G., North Attleboro, Mass. Making bag-tops. No. 1,397,874; Nov. 22.

Manila Sterilizing Corporation. (See Diner, Jacob, assignor.)

March, George E., Muskegon, Mich. Irrigating or sprinkling system. No. 1,397,769; Nov. 22.

Marconet, Orlan P., and W. O. Carter, Clarksburg, W. Va. Sheet-glass-drawing machine. No. 1,398,109; Nov. 22.

Marden, William L., assignor to Neptune Meter Company, New York, N. Y. Register for water-meters, &c. No. 1,397,534; Nov. 22.

Marks, Herbert E., Sewickley, Pa. Roof structure. No. 1,398,079; Nov. 22.

Marquette, Ira G., Wheeling, W. Va. Gas-burner. No. 1,397,977; Nov. 22.

Marsden, Mark W., Philadelphia, Pa. Trespass-sign for automobiles. No. 1,397,770; Nov. 22.

Martin, John H., New Hartford, N. Y. Measuring and describing instrument. No. 1,397,816; Nov. 22.

Matthews Engineering Company. (See Cosgray, Mark C., assignor.)

Maurer, Oscar V., East Cleveland, Ohio. Incandescent lamp and making the same. No. 1,398,032; Nov. 22.

Maurer, Oscar V., East Cleveland, Ohio. Making incandescent lamps. No. 1,398,033; Nov. 22.

Mays, Vernice M., Ketcham, Okla. Plow. No. 1,397,841; Nov. 22.

Meister, Jacob, Basel, Switzerland. Degumming textile fibers. No. 1,397,875; Nov. 22.

Meldal, Edward, London, England. Nut, bolt, screw, and the like. No. 1,397,876; Nov. 22.

Melton, Edward R., et al. (See Ball, George S., assignor.)

Mergenthaler Linotype Company. (See Kennedy, David S., assignor.)

Mero, Frank K., Malden, Mass. Loose-leaf binder. No. 1,398,034; Nov. 22.

Merrell, Irving S., assignor to Merrell-Soule Company, Syracuse, N. Y. Treating juice and product. No. 1,398,080; Nov. 22.

Merrell, Irving S., assignor to Merrell-Soule Company, Syracuse, N. Y. Treating juice and product. No. 1,398,081; Nov. 22.

Merrell-Soule Company. (See Merrell, Irving S., assignor.)

Metal Protection Laboratory, The. (See Haines, F. W., and Sorensen, assignors.)

Metals Recovery Company. (See Robbins, Hallet R., assignor.)

Mettler, Clyde M. (See Smith, Charles, assignor.)

Middleton, Percy R., Los Angeles, Calif., assignor of one-half to J. C. Lalor, New York, N. Y. Electrolysis of copper-bearing solutions. No. 1,397,647; Nov. 22.

Milam, Willie, Winston, Ga. Compressed-air pump. No. 1,397,877; Nov. 22.

Miller Rubber Company, The. (See Brundage, James W., assignor.)

Miller, Tony S., Ryde, Calif. Snap-pocket for truck-stakes. No. 1,398,110; Nov. 22.

Milner, Leslie C., Indianapolis, Ind. Automobile heater. No. 1,397,648; Nov. 22.

Mills, Clarence A., Cincinnati, Ohio. Blood-coagulation medium. No. 1,397,896; Nov. 22.

Miner, William H. (See O'Connor, John F., assignor.)

Minor, Charles G., Duluth, Minn. Spark-plug. No. 1,397,535; Nov. 22.

Mitchell, John C., East Orange, N. J. Form for concrete-pipe molds. No. 1,397,649; Nov. 22.

Mixsell, Leighton N. D. (See Carey, R. R., Lukens, and Mixsell.)

Mladinich, Frank, New York, N. Y., assignor of fifteen one-hundredths to E. Pontin, Elizabeth, N. J., and forty-two and one-half one-hundredths to A. R. de Tartas, Rockwell Center, Long Island, N. Y. Camera box or cabinet for combined moving-picture cameras and projectors. No. 1,397,817; Nov. 22.

Mockridge, Joseph B., assignor to Automatic Weighing Machine Company, Newark, N. J. Feeding apparatus for weighing-machines and the like. No. 1,397,962; Nov. 22.

Mohn, Arnold, Chicago, Ill. Waterproofing. No. 1,397,738; Nov. 22.

Moore, Richard, Ossining, N. Y. Pen or pencil clip. No. 1,397,818; Nov. 22.

Moork, Alfred C. (See Moork, Hartwig A., assignor.)

Moork, Hartwig A., assignor of one-half to A. C. Moork, Chicago, Ill. Kettle. No. 1,397,536; Nov. 22.

Moran, Patrick J. (See Clark, Wilbur T., assignor.)

Morrell, Albert H. (See Wishart, W., and Morrell.)

Morrison, Robert. (See Lee, H. W., and Morrison.)

Morrison, William, Troy, N. Y. Brush-back. No. 1,398,035; Nov. 22.

Mort, George F., deceased, by J. C. Mort, Ealing, England, executor. Adjustable work-carrying table for drilling and other machines. No. 1,397,771; Nov. 22.

Mort, John C., executor. (See Mort, George F.)

Moses, Edmund O., New York, N. Y., assignor of one-half to W. P. Hammond, Passaic, N. J. Vehicle construction. No. 1,397,594; Nov. 22.

Moses, Robert S., Kendallville, Ind. Fishing-reel. No. 1,398,197; Nov. 22.

Moyer, Malcolm B., Montevideo, Minn. Fresh-air valve for buildings. No. 1,397,739; Nov. 22.

Moyer, Virgil W., Pawhuska, Okla. Temper-screw yoke. No. 1,397,595; Nov. 22.

Muhleisen, Henry W., and C. Lund, assignors to W. S. Rush & Co., Los Angeles, Calif. Adjustable internal brake-shoe. No. 1,397,772; Nov. 22.
Muir, William H., assignor to Jenks & Muir Manufacturing Company, Detroit, Mich. Bed. No. 1,397,773; Nov. 22.
Muller, Henry, East Orange, N. J. Calculating device. No. 1,397,596; Nov. 22.
Muller, Robert L., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,397,774; Nov. 22.
Munsing, George D., New York, N. Y. Can-opener. No. 1,397,537; Nov. 22.
Munson, Howard B., St. Louis, Mo., assignor of one-half to Wilder and Company, Chicago, Ill. Heel-breasting machine. No. 1,397,897; Nov. 22.
Munson Supply Company. (See Coomber, James J., assignor.)
Munters, Anders J. E., assignor to Aktiebolaget Pump-Separator, Stockholm, Sweden. Driver for wheels, shafts, and the like. No. 1,397,819; Nov. 22.
Marcus, Jacob. (See Bergen, J. F., and Marcus.)
National Company. (See Baleke, W. H., and Ready, assignors.)
National Shock Loader Co. (See Gilliland, Orra L., assignor.)
Neikirk, John O., Lombard, assignor to Rodger Ballast Car Co., Chicago, Ill. Convertible-car construction. No. 1,397,695; Nov. 22.
Nelson, Charles A., assignor to Savage Arms Corporation, Utica, N. Y. Magazine-loader. No. 1,397,538; Nov. 22.
Nelson, Edwin. (See Zettermen, Axel, assignor.)
Nelson, John V., Maywood, assignor to F. K. Krag, Chicago, Ill. Drilling attachment for milling-machines. No. 1,397,696; Nov. 22.
Nelson, Morton E., Albert Lea, Minn. Luggage-carrier. No. 1,398,140; Nov. 22.
Neptune Meter Company. (See Marden, William L., assignor.)
Netzel, Frank M., assignor to Velvet Rubber Company, Chicago, Ill. Making tire-casing fillers. No. 1,397,842; Nov. 22.
Neumeister, May B., Los Angeles, Calif. Sectional pie-pan. No. 1,397,775; Nov. 22.
Neverskid Manufacturing Co. (See Layman, Hebron B., assignor.)
New Jersey Patent Company. (See Holland, Newman H., assignor.)
New York Bath Manufacturing Inc. (See Holley, William V., assignor.)
Newcomb, Delancy E., Sydney, Nova Scotia, Canada. Nut-lock. No. 1,397,820; Nov. 22.
Nichols, Charles W., St. Louis, Mo. Sash-fastener. No. 1,398,036; Nov. 22.
Niemela, Jack, Fort Bragg, Calif. Wire-stretcher. No. 1,397,878; Nov. 22.
Niland, Andrew. (See Carlson, August J., assignor.)
Nipe, Incorporated. (See Goodchild, Walter, assignor.)
Nitsch, Charles H., assignor to Stokes and Smith Company, Philadelphia, Pa. Machine for pressing necks in boxes. No. 1,397,597; Nov. 22.
Nodder, Gerald. (See Clayton, W., and Nodder.)
Nordberg, Bruno V., Milwaukee, Wis. Support for rocker-shafts and the like. No. 1,397,598; Nov. 22.
Norris, Emma M., executrix. (See Norris, John H.) (Reissue.)
Norris, John H., deceased, New York, N. Y., by E. M. Norris, executrix. Meter. (Reissue.) No. 15,232; Nov. 22.
Northcutt, John G., and M. Crawford, Silverton, Tex. Agricultural machine. No. 1,398,188; Nov. 22.
Nossaqk, Frederik, assignor to Composite Metal Lath Company, New York, N. Y. Machine for producing composite metal laths. No. 1,398,141; Nov. 22.
Novotny, Emil E., Logan, assignor to J. S. Stokes, Philadelphia, Pa. Printing-plate matrix and making same. No. 1,398,142; Nov. 22.
Novotny, Emil E., Logan, assignor to J. S. Stokes, Philadelphia, Pa. Moldable composition and making same. No. 1,398,143; Nov. 22.
Novotny, Emil E., assignor to J. S. Stokes, Logan, Philadelphia, Pa. Manufacture of sound-records. No. 1,398,144; Nov. 22.
Novotny, Emil E., assignor to J. S. Stokes, Philadelphia, Pa. Sound-record. No. 1,398,145; Nov. 22.
Novotny, Emil E., Logan, Pa., and D. S. Kendall, Glen Ridge, N. J., assignors to J. S. Stokes, Philadelphia, Pa. Synthetic resin composition. No. 1,398,146; Nov. 22.
Novotny, Emil E., Logan, assignor to J. S. Stokes, Philadelphia, Pa. Moldable composite body. No. 1,398,147; Nov. 22.
Novotny, Emil E., Logan, assignor to J. S. Stokes, Philadelphia, Pa. Sound-record. No. 1,398,148; Nov. 22.
Novotny, Emil E., Logan, Philadelphia, assignor to J. S. Stokes, Philadelphia, Pa. Molding articles. No. 1,398,149; Nov. 22.
Oates, William, Jr., Lead, S. D. Cooling system. No. 1,398,199; Nov. 22.
O'Brien, James B., Hartford, Wis. Rag-holder. No. 1,397,898; Nov. 22.
O'Connor, John P., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,398,037; Nov. 22.
Odell, Risdon M., Decatur, Ill. Egg-carton. No. 1,397,539; Nov. 22.
Odell, Risdon M., Decatur, Ill. Receptacle and carrier for eggs. No. 1,397,540; Nov. 22.
Ohio Body & Blower Company, The. (See Lauritsen, Charles C., assignor.)
Ohio Cultivator Company, The. (See Griffith, Richard H., assignor.)
Olinger, Thomas, assignor to Federal Stamping Company, Holland, Mich. Damper construction. No. 1,398,068; Nov. 22.
Olsen, Ben F., Marcus, Wash. Tea or coffee pot. No. 1,397,978; Nov. 22.
Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Hob for generating bevel-gears. No. 1,397,697; Nov. 22.
Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Cutter for generating skew bevel-gears. No. 1,398,039; Nov. 22.
O'Neil, Edward, Wakefield, Mich. Shears. No. 1,398,111; Nov. 22.
Osborn, James H., Mount Vernon, Ill. Weather-strip. No. 1,397,979; Nov. 22.
Ouellette, John B., New Bedford, Mass. Bending attachment for vises. No. 1,397,980; Nov. 22.
Overstrud, Melvin, assignor to Twin City Forge & Foundry Company, Stillwater, Minn. Combination tie-plate and anticreeper for rails. No. 1,397,776; Nov. 22.
Owen, Harry, Roosevelt, Utah. Tire. No. 1,398,200; Nov. 22.
Owen, William O., Washington, D. C. Production of "Dissolve" effects in moving-picture films. No. 1,397,600; Nov. 22.
Owen, William O., Washington, D. C. Device for use in fade-printing. No. 1,397,601; Nov. 22.
Owen, William O., Washington, D. C. Production of insets on moving-picture films. No. 1,397,602; Nov. 22.
Owens, Charles, Chattanooga, Tenn. Agricultural implement. No. 1,397,599; Nov. 22.
Owens, James W., Cradock, Va., assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Method for use in connection with the testing of materials. No. 1,397,541; Nov. 22.
Oxweld Acetylene Company. (See Heyman, Benjamin.)
P. A. Geier Company, The. (See Geier, P. A., and Robertson, assignors.)
Palmer, John F., Milwaukee, Wis. Brush-handle connection. No. 1,397,899; Nov. 22.
Panik, Joseph, and S. Clebo, West Park, Ohio. Churn-operating mechanism. No. 1,398,112; Nov. 22.
Paper Products Machine Co. (See Shepherd, Joe V. R., assignor.)
Parke, Davis & Company. (See Aldrich, Thomas B., assignor.)
Parker, Howard, Berlin, N. H., assignor to Brown Company, Portland, Me. Core for rolls of paper and the like. No. 1,397,542; Nov. 22.
Parrish, Stephen E., Grand Rapids, Mich. Ribbon-meter. No. 1,398,040; Nov. 22.
Parsons, Fred A. (See Geets, J., and Parsons.)
Pate, William T. S., Indianapolis, Ind. Mortising-machine. No. 1,397,900; Nov. 22.
Patterson, L. L. (See Kincaid, Archibald S., assignor.)
Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Gun. No. 1,397,698; Nov. 22.
Peden, Francis M., assignor of one-half to E. P. Lowery, Loco, Okla. Binder attachment. No. 1,397,821; Nov. 22.
Pedersen, Waldemar J., Floral Park, N. Y. Building construction. No. 1,397,650; Nov. 22.
Peirce, Clifford G., Jersey City, N. J. Spark-plug. No. 1,397,901; Nov. 22.
Peirce, William B., North Tonawanda, N. Y. Method and apparatus for heating long blanks to forging temperature. No. 1,397,603; Nov. 22.
Pelton & Crane Company, The. (See Pelton, C. B., and Hand, assignors.)
Pelton, Chauncey B., and J. A. Hand, assignors to The Pelton & Crane Company, Detroit, Mich. Electric switch. No. 1,397,777; Nov. 22.
Penn Publishing Company. (See Rhoads, William M., assignor.)
Pereira, Ricardo G., Valparaiso, Chile. Line-making attachment for typewriting-machines. No. 1,397,740; Nov. 22.
Perkins, Chester A., South Bend, Ind. Vehicle-signal. No. 1,397,778; Nov. 22.
Peppin, Albert, Ishpeming, Mich. Digging-machine. No. 1,397,543; Nov. 22.
Peters, Chauncey G., Washington, D. C. Headlight diffraction-lenses. No. 1,397,822; Nov. 22.
Peters, Walter, Chicago, Ill. Cake-machine. No. 1,397,981; Nov. 22.
Peterson, Edwin A., Madison, Wis., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,397,544; Nov. 22.
Petsche, Gustav B., Yonkers, N. Y. Non-return valve for pumps and similar uses. No. 1,397,700; Nov. 22.
Petsche, Gustav B., Yonkers, N. Y. Rotary pump. No. 1,397,699; Nov. 22.
Peyser, Joseph, Mount Vernon, N. Y., assignor, by mesne assignments, to Ackermann Manufacturing Company, Wheeling, W. Va. Heading-machine. No. 1,397,651; Nov. 22.
Pfau, Albert E., Rockford, Ill. Vending-machine. No. 1,397,604; Nov. 22.

Pfeifer, Constant J., Calicoon, N. Y. Poultry-feeder. No. 1,398,041; Nov. 22.
Pfeifer, Leo L., assignor to The John W. Brown Manufacturing Company, Columbus, Ohio. Power-press. No. 1,397,779; Nov. 22.
Philadelphia Textile Machinery Company, The. (See Bogaty, Hermann, assignor.)
Phillips, Will H., Chicago, Ill., assignor to Worthington Pump and Machinery Corporation. Condenser. No. 1,397,545; Nov. 22.
Pierce-Arrow Motor Car Company, The. (See Sheppy, Charles L., assignor.)
Pierce, Harry, assignor of one-half to F. A. Briggs, Oakland, Calif. Automatic pneumatic lock. No. 1,397,933; Nov. 22.
Pierce, Jefferson F., Tampa, Fla. Washing-machine. No. 1,397,652; Nov. 22.
Piggly Wiggly Corporation. (See Saunders, Clarence, assignor.)
Pillmore, William F., Westernville, N. Y. Attachment for automobiles. No. 1,397,879; Nov. 22.
Pirwitz, Friedrich A. G. (See Wollensak, A., and Pirwitz.)
Pittsburgh Plate Glass Company. (See Fulton, Clarence E., assignor.)
Pittsburgh Plate Glass Company. (See Hitchcock, Halbert K., assignor.)
Pittsburgh Plate Glass Company. (See Soderberg, Jacob, assignor.)
Pittsburgh Plate Glass Company. (See Taylor, William H., assignor.)
Podawiltz, Arthur J. (See Harrington, G. F., and Podawiltz.)
Pohl, Charles, assignor to J. O. King, Los Angeles, Calif. Fuel-feeding system. No. 1,397,780; Nov. 22.
Pollard, Charles E., Champaign, Ill. Osteopathic instrument. No. 1,398,150; Nov. 22.
Pontin, Elmer, *et al.* (See Mladinich, Frank, assignor.)
Posson, Edward, Chicago, Ill. Door-fastener for railway-cars. No. 1,397,934; Nov. 22.
Powers Regulator Company, The. (See Snediker, Morton O., assignor.)
Poynor, Camp L., North Fort Worth, Tex. Fertilizer and producing the same. No. 1,398,113; Nov. 22.
Prell, Henry, Cleveland, Ohio, assignor, by mesne assignments, to F. J. Kuhlemeier, Burlington, Iowa. Apparatus for heating, roasting, and cooling food products. No. 1,398,114; Nov. 22.
Prell, Henry, Cleveland, Ohio, assignor to F. J. Kuhlemeier, Burlington, Iowa. Roasting coffee. No. 1,398,115; Nov. 22.
Prendergast, Thomas A., Milbank, S. D. Earthworking-machine. No. 1,397,653; Nov. 22.
Price, William G., Yakima, Wash. Friction-clutch. No. 1,397,902; Nov. 22.
Pringle, Alexander, and T. S. Kirk, Belfast, Ireland. Artificial limb. No. 1,397,654; Nov. 22.
Procunier, Frank B., assignor of one-half to L. N. Turner and one-fourth to J. C. Stryker, Chicago, Ill. Automobile-lamper. No. 1,397,741; Nov. 22.
Pullar, James, Hartford, Conn. Apparatus for removing snow. No. 1,398,042; Nov. 22.
Quartana, Peter J., Milwaukee, Wis. Fender attachment for automobiles. No. 1,397,903; Nov. 22.
Rabinowitz, Henry, New York, N. Y. Means for locking window-sashes in position. No. 1,397,935; Nov. 22.
Ralston, William S., assignor to The Chaplin-Fulton Manufacturing Company, Pittsburgh, Pa. Valve. No. 1,398,151; Nov. 22.
Ramsay, John C., Baltimore, Md. Oven attachment. No. 1,398,152; Nov. 22.
Rand, James H., Jr., Tonawanda, N. Y. Card-index system. No. 1,397,982; Nov. 22.
Rapid Roller Co. (See Kutner, Solomon, assignor.)
Rapp, Adolph P., New York, N. Y. Chewing-gum or chewing-gum substitutes. No. 1,397,742; Nov. 22.
Rapp, Fred, West Albany, N. Y. Support for signal-lamp brackets. No. 1,397,843; Nov. 22.
Rapp, John W., Flushing, and J. Vanorio, Brooklyn, N. Y.; said Vanorio assignor to said Rapp. Airplane-rib construction. No. 1,397,701; Nov. 22.
Rasmussen, Carl L., Butte, Mont. Alarm-clock attachment. No. 1,397,702; Nov. 22.
Rasmussen, Peter, assignor of one-half to S. Knight, Denver, Colo. Automatically-operating cake receiving, separating, dividing, and centralizing machine. No. 1,397,655; Nov. 22.
Rasmussen, Peter, assignor of one-half to S. Knight, Denver, Colo. Multiple-guide-row stacked-cake receiving and assembling machine. No. 1,397,656; Nov. 22.
Rasmussen, Peter, assignor of one-half to S. Knight, Denver, Colo. Transversely-adjustable chute for cake-stacking machines. No. 1,397,657; Nov. 22.
Rasmussen, Peter, Denver, Colo. Automatically-operating material-sprinkling hopper for marshmallow or other material-depositing machines. No. 1,397,658; Nov. 22.
Rau, Albert, Clifton, N. J., assignor to United Piece Dye Works, Inc. Cloth-handling device. No. 1,398,043; Nov. 22.
Ready, William A. (See Baleke, W. H., and Ready.)
Rebelski, August, Brooklyn, N. Y., and M. Torre, Hoboken, N. J. Oval chuck. No. 1,397,546; Nov. 22.
Reeve, Charles S., Grantwood, N. J., assignor to The Barrett Company, Bituminous emulsion. No. 1,398,201; Nov. 22.
Reeves, Orwell C., assignor to Toledo Scale Company, Toledo, Ohio. Predetermined-weight scale. No. 1,397,547; Nov. 22.
Rehrauer, Randolph A. (See Rhein, L. J., and Rehrauer.)
Reichard, Walter V., Paola, Kans. Thermal circuit-closer. No. 1,398,153; Nov. 22.
Reid, Walter W., New York, N. Y. Box. No. 1,398,154; Nov. 22.
Reif, Joseph, assignor of forty-five per cent. to F. E. Ling, Hebron, Ind. Car-coupling. No. 1,397,781; Nov. 22.
Reinhold, Baldwin. (See Abegg, Walter A., assignor.)
Remington Accounting Machine Corporation. (See Golber, Hyman, assignor.)
Rennie, John B., Manchester, England. Metal-cutting tool. No. 1,397,983; Nov. 22.
Rex, Chauncey R. H. (See Hawkins, Thomas, assignor.)
Rex Company, The. (See Gifford, Bert L. and E. B., assignors.)
Rhein, Louis J., and R. A. Rehrauer, Two Rivers, Wis. Retaining means for hairpins, combs, and the like. No. 1,397,804; Nov. 22.
Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Spinning or winding machine. No. 1,397,905; Nov. 22.
Rhoads, William M., assignor to Penn Publishing Company, Philadelphia, Pa. Book-cover. No. 1,397,605; Nov. 22.
Rhodes, Ernest, assignor to Standard Furniture Company, Herkimer, N. Y. Stop for desk-slides and the like. No. 1,397,782; Nov. 22.
Richardson, John J. (See Yoxall, H. S., and Richardson.)
Rieff, Clinton W., West Fork, Ark. Tool-handle. No. 1,397,783; Nov. 22.
Ripley, Edward G., assignor of one-half to H. L. McCullough, Minneapolis, Minn. Pump-lubricator. No. 1,397,548; Nov. 22.
Robbins, Hallet R., Washington, D. C., assignor to Metals Recovery Company, New York, N. Y. Concentration of ores. No. 1,397,703; Nov. 22.
Robertson, Frank E. (See Geier, P. A., and Robertson.)
Rockwood, George I., Worcester, Mass. Dry-pipe valve. No. 1,397,704; Nov. 22.
Rodger Ballast Car Company. (See Hart, Harry S., assignor.)
Rodger Ballast Car Co. (See Neikirk, John O., assignor.)
Roeseler, Emil A., Juneau, Wis. Cable-guard for carrier pulleys or trolleys. No. 1,397,659; Nov. 22.
Rogers, W. H., Company. (See Scherfer, Jacob, assignor.)
Rogowski, Edmund, assignor of one-half to B. Freud, Chicago, Ill. Demountable rim. No. 1,397,823; Nov. 22.
Root, Carlton T., Orland, Ind. Angle-wrench. No. 1,398,116; Nov. 22.
Ropp, John F., Blythe, Calif. Leveler. No. 1,397,784; Nov. 22.
Rork, James B., Tacoma, Wash. Chimney-cleaner. No. 1,398,155; Nov. 22.
Rose, George U., Jr., Washington, D. C. Electrotype material and forming same. No. 1,397,785; Nov. 22.
Rosenfeld, Francis M. (See Shaw, L. E., and Rosenfeld.)
Ross, Charles, Blair, Nebr. Adjustable open-top horse-collar. No. 1,397,743; Nov. 22.
Rouse, Ardra L., Kansas City, Kans. Polishing-tool. No. 1,397,660; Nov. 22.
Ruprecht, Frank D., Midway, Fla. Screening apparatus. No. 1,397,906; Nov. 22.
Rush, W. S., & Co. (See Muhleisen, H. W., and Lund, assignors.)
Ryan, Thomas J., Tulsa, Okla. Oil-distilling apparatus. No. 1,397,984; Nov. 22.
Sampson, John. (See Ensor, H. E., and Sampson.)
Sanborn, George A., Fox Lake, Wis. Envelop. No. 1,397,880; Nov. 22.
Santon, Joseph C., Worcester, Mass. Boring-tool holder. No. 1,397,786; Nov. 22.
Sark, Elmer J., Bartlesville, Okla. Shield or protector for photographic cameras. No. 1,397,661; Nov. 22.
Saunders, Clarence, assignor to Piggly Wiggly Corporation, Memphis, Tenn. Self-serving store. No. 1,397,824; Nov. 22.
Savage Arms Corporation. (See Nelson, Charles A., assignor.)
Scarborough, John H., assignor to D. Weber, Philadelphia, Pa. Slotting-machine. No. 1,398,202; Nov. 22.
Scherfer, Jacob, assignor to W. H. Rogers Company, Chicago, Ill. Manufacturing ladies' ready-to-wear clothing. No. 1,398,117; Nov. 22.
Schmidt, Henry A., Long Island City, N. Y. Convertible bed-spring. No. 1,398,203; Nov. 22.
Schmidt, John, Jr., Philadelphia, Pa., assignor of one-third to A. R. Thompson, San Jose, Calif. Cooker. No. 1,397,985; Nov. 22.
Schmidt Lithograph Company. (See Schmidt, Max A., assignor.)
Schmidt, Max A., San Francisco, Calif., assignor to Schmidt Lithograph Company. Box-printing machine. No. 1,397,881; Nov. 22.
Schnittker, Henry A., St. Louis, Mo. Resilient wheel. No. 1,397,907; Nov. 22.
Schott, Frederick, *et al.* (See Engel, William C., assignor.)
Schowalter, Jacob A., near Newton, Kans. Headed-grain stacker. No. 1,398,204; Nov. 22.
Schrader's, A., Son, Incorporated. (See Evans, Fred, assignor.)
Schroder, Frank P., Philadelphia, Pa. Tap. No. 1,398,156; Nov. 22.

Schutz Hawley Co. (See Schutz, Joseph M., assignor.)
Schutz, Joseph M., assignor to Schutz Hawley Company, Chicago, Ill. Carbureting air for internal-combustion engines. No. 1,397,744; Nov. 22.
Schwerin, Frank R., Westview borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Self-lowering jack. No. 1,397,852; Nov. 22.
Scott, Charles S., Chicago, Ill. Vending-machine. No. 1,397,549; Nov. 22.
Scott, Guy E., Delhi, Mian. Shovel-scraper. No. 1,396,082; Nov. 22.
Scutright Co. Inc. (See Howe, Harold C., assignor.)
Seaton, Max Y., assignor to The Dow Chemical Company, Midland, Mich. Cellulose-ester solvent and resulting cellulosic composition. No. 1,397,986; Nov. 22.
Seder, Frank, San Francisco, Calif. Cuspidor. No. 1,398,118; Nov. 22.
Segar, John M., Liverpool, England. Griller. No. 1,398,157; Nov. 22.
Sellew, Roland W., assignor to The Fafnir Bearing Company, New Britain, Conn. Antifriction-bearing. (Reissue.) No. 15,253; Nov. 22.
Shadle Automatic Train Signal Company. (See Shadle, Clinton F., assignor.)
Shadle, Clinton F., Indianapolis, Ind., assignor to Shadle Automatic Train Signal Company. Signal system for railways. No. 1,397,883; Nov. 22.
Shand, Alexander M. (See Shand, W. L., and A. M.)
Shand, William L., and A. M., Caulfield, near Melbourne, assignors of one-half to C. C. Jackson, Melbourne, Victoria, Australia. Gas-burner for heating, cooking, and other purposes. No. 1,397,662; Nov. 22.
Shaw, Louis E., East Orange, N. J., and F. M. Rosenfeld, New York, N. Y., assignors, by mesne assignments, to Diamond Electric Specialties Corp. of Newark, N. J. Portable electric lamp. No. 1,397,705; Nov. 22.
Shejaman, Morris, New York, N. Y. Lock. No. 1,398,044; Nov. 22.
Shepherd, Joe V. R., Hollister, Mass., assignor to Paper Products Machine Company, Boston, Mass. Container. No. 1,397,908; Nov. 22.
Sheppy, Charles L., assignor to The Pierce-Arrow Motor Car Company, Buffalo, N. Y. Actuating means for throttle-valves of carburetors. No. 1,397,987; Nov. 22.
Shoenberg, Milton H. (See Brown, E. N., and Shoenberg.)
Sibley, Cedric P., Detroit, Mich. Fastener for papers and other materials. No. 1,397,787; Nov. 22.
Simpson, Arthur M. (See Simpson, George N., A. M., and W. H.)
Simpson, George N., A. M., and W. H., Chicago, Ill. Rotary car-dumper. No. 1,397,936; Nov. 22.
Simpson, Walter H. (See Simpson, George N., A. M., and W. H.)
Sinclair, George, Taylors Falls, Minn. Treating liquids. No. 1,397,550; Nov. 22.
Singer Manufacturing Company, The. (See Corrall, Herbert, assignor.)
Singer Manufacturing Company, The. (See Gatchell, George S., assignor.)
Sipe, James B., Pittsburgh, Pa. Egg-carrier. No. 1,398,045; Nov. 22.
Sirch, Charles W., Los Angeles, Calif. Filter. No. 1,398,205; Nov. 22.
Skelton, Charles E., East Onondaga, N. Y. Reamer. No. 1,397,706; Nov. 22.
Skremka, Henry, New York, N. Y. Stage-costume appliance. No. 1,398,158; Nov. 22.
Slaughter, Joseph W., Brooklyn, N. Y., assignor to Standard Tobacco Stemmer Company. Tobacco-stemming machine. No. 1,397,551; Nov. 22.
Smith, Charles, assignor, by mesne assignments, of one-half to C. M. Mettler, St. Louis, Mo. Intensifier. No. 1,397,788; Nov. 22.
Smith, Christian N., Elgin, Ill. Safety-shield for circular saws. No. 1,397,606; Nov. 22.
Smith, Christian N., Elgin, Ill. Making metallic printing-plates. No. 1,397,607; Nov. 22.
Smith, Elberon D., Brooklyn, N. Y., assignor to American Machine & Foundry Company, Cigarette-packaging machine. No. 1,397,552; Nov. 22.
Smith, Harry B., Brooklyn, N. Y. Paper-box construction. No. 1,397,608; Nov. 22.
Smith, Harry F., Lexington, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Method of and apparatus for distributing material. No. 1,397,553; Nov. 22.
Smith, Harry F., Lexington, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Moisture regulation. No. 1,397,555; Nov. 22.
Smith, Harry F., Lexington, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Moisture control. No. 1,397,556; Nov. 22.
Smith, Harry F., Lexington, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Steam regulation. No. 1,397,554; Nov. 22.
Smith, Harry F., assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Spraying mechanism. No. 1,397,557; Nov. 22.
Smith, Nelson E., Dallas, Tex. Wrench. No. 1,397,984; Nov. 22.
Smith, Rowland H., Brantford, Ontario, Canada. Organ-blower. No. 1,397,988; Nov. 22.
Smurr, Harry M. B., Armona, Calif. Toy aeroplane. No. 1,397,989; Nov. 22.
Snediker, Morton O., assignor to The Powers Regulator Company, Chicago, Ill. Thermostatic water-mixer. No. 1,397,707; Nov. 22.
Snelling, Walter O., Long Island City, N. Y. Performing chemical reactions. No. 1,397,609; Nov. 22.
Societe Anonyme pour L'Equipement Electrique des Vehicules. (See Dutreux, Auguste, assignor.)
Societe Les Petits Fils de Francois De Wendel et Cie. (See Weber, Guillaume, assignor.)
Soderberg, Jacob, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Glass-rolling mechanism. No. 1,398,046; Nov. 22.
Sonora Phonograph Company. (See Herzog, John, assignor.)
Sontow, Herman, Wilmington, Del. Locking device. No. 1,398,159; Nov. 22.
Sorensen, Frank L. (See Haines, F. W., and Sorensen.)
Sparks, Fred E., Akron, Ohio, assignor to Automatic Burglar Alarm Company, Charleston, W. Va. Burglar-alarm. No. 1,398,160; Nov. 22.
Sparks, William, Jackson, Mich., assignor to The Sparks-Withington Company, Cleveland, Ohio. Fuel-feeding device. No. 1,396,206; Nov. 22.
Sparks-Withington Company, The. (See Sparks, William, assignor.)
Spencer, Warren W. C., Brookline, Mass. Windlass-clamp for sucker-rods and tube-hoists. No. 1,397,937; Nov. 22.
Spicer Brothers, Limited. (See Wycherly, Sydney R., assignor.)
Spinks, Virgil H., Ruston, La. Counter and bin. No. 1,398,161; Nov. 22.
Stack, Elmer S. (See Tibbetts, Frank L., assignor.)
Standard Furniture Company. (See Rhodes, Ernest, assignor.)
Standard Oil Company. (See Beck, Jennings B., assignor.)
Standard Tobacco Stemmer Company. (See Slaughter, Joseph W., assignor.)
Stansbury, Harry S., Ashland, assignor of one-half to C. F. Ensor, Verona, Md. Grain-cleaning machine. No. 1,398,162; Nov. 22.
Stebler, Fred. (See Bryan, Edgar J., assignor.)
Steedman, Edwin H., St. Louis, assignor to Curtis & Co. Mfg. Co., Wellston, Mo. Overhead crane. No. 1,397,558; Nov. 22.
Steinkeller, Thomas J., Berkeley, Calif. Automatic re-tather-valve. No. 1,397,909; Nov. 22.
Stevens, Richard H., Philadelphia, Pa. Bin-gate. No. 1,398,047; Nov. 22.
Stevens, William L., Minneapolis, Minn. Music turner and carrier. No. 1,397,885; Nov. 22.
Stevenson, Albert F., Ridgewood, N. J., assignor to A. W. Johnston, New York, N. Y. Treatment of butter-fats. No. 1,397,663; Nov. 22.
Stevenson, Albert F., Ridgewood, N. J., assignor to A. W. Johnston, New York, N. Y. Manufacture of milk-fat. No. 1,397,664; Nov. 22.
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,398,048; Nov. 22.
Stimson, Claude J., Brunswick, Ga., assignor of one-half to H. R. Van Deventer, Sumter, S. C. Printing and calculating machine. No. 1,397,559; Nov. 22.
Stokes and Smith Company. (See Nitch, Charles H., assignor.)
Stokes, John S. (See Novotny, E. E., and Kendall, assignors.)
Stokes, John S. (See Novotny, Emil E., assignor.)
Stokes, Robert J., Trenton, assignor to Thermoid Rubber Company, Hamilton township, N. J. Flexible disk-coupling. No. 1,398,163; Nov. 22.
Stone, Andrew H., Kansas City, Mo. Extension-table. No. 1,398,665; Nov. 22.
Stonestreet, Clarence G., Akron, Ohio. Umbrella. No. 1,397,789; Nov. 22.
Stowell, Augustus H., Spokane, Wash. Wall structure. No. 1,397,708; Nov. 22.
Strange, Charles H., Minersville, Pa. Mining self-loading and unloading scraper. No. 1,397,560; Nov. 22.
Stryker, Jesse C., et al. (See Procunier, Frank R., assignor.)
Stuart, Francis L., New York, N. Y. Apparatus for conveying, delivering, and gathering material. No. 1,397,561; Nov. 22.
Submarine Signal Co. (See Fessenden, Reginald A., assignor.)
Swayze, William W., Jr., Wilmington, Del., assignor to American Manganese Steel Company, Augusta, Me. Dredge-frame bushing. No. 1,398,040; Nov. 22.
Taft, John H. (See Allen, Adrian S., assignor.)
Taylor, John D. (See Dillard, W. J., and Taylor.)
Taylor, Robert W., Sr., Kalamazoo, Mich., assignor to Evansville Arbor Press Company, Evansville, Ind. Mandrel-press. No. 1,397,910; Nov. 22.
Taylor, William H., Charleroi, Pa., assignor to Pittsburgh Plate Glass Company. Method for producing flat parallel-sided glass sheets. No. 1,398,050; Nov. 22.
Taylor, William H., and W. B. Watts, Bonner Springs, Kans. Railway-tie. No. 1,398,119; Nov. 22.
Tegner, Folke W., Rockford, Ill. Fishing-tackle holder. No. 1,397,790; Nov. 22.
Terry, Walter J., Seattle, Wash. Milling-machine. No. 1,397,709; Nov. 22.
Tesla, Jacque, Brooklyn, N. Y. Plane-washing machine. No. 1,397,745; Nov. 22.

Thatcher, Charles J., New York, N. Y. Oxidation and reduction process and apparatus therefor. No. 1,397,562; Nov. 22.
Thermoid Rubber Company. (See Stokes, Robert J., assignor.)
Thom, Clarence, R. W. Diamond, and S. G. Blaylock, Trail, British Columbia, assignors to The Consolidated Mining & Smelting Company of Canada, Limited, Montreal, Quebec, Canada. Magnetic separation of ores. No. 1,398,051; Nov. 22.
Thomas, Albert E. (See Kuhman, Charles, assignor.)
Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Combined brake-valve and switch. No. 1,397,563; Nov. 22.
Thomas, William M., Los Angeles, Calif. Metal frame construction. No. 1,397,746; Nov. 22.
Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Can-extractor. No. 1,397,990; Nov. 22.
Thompson, Albert R. (See Schmidt, John, Jr., assignor.)
Thompson, Drew B., Blakely, Ga. Disk field or road plow. No. 1,398,164; Nov. 22.
Thompson, George K., Maplewood, N. J., assignor to American Telephone and Telegraph Company. Message-registering system. No. 1,397,991; Nov. 22.
Thompson, Joseph F., Marietta, Ohio. Car-wheel feader. No. 1,397,825; Nov. 22.
Thomson and Taylor Spice Company. (See Forsberg, Albin L., assignor.)
Thralkill, James C., Chicago, Ill. Embroidery-needle. No. 1,398,207; Nov. 22.
Thrift Jar Company, The. (See Bauer, John J., assignor.)
Tibbetts, Frank L., assignor, by mesne assignments, to E. S. Stack, Somerville, Mass. Pipe-coupling. No. 1,398,083; Nov. 22.
Tinius Olsen Testing Machine Company. (See Owens, James W., assignor.)
Toledo Scale Company. (See Hem, Halvor O., assignor.)
Toledo Scale Company. (See Hurt, Samuel N., assignor.)
Toledo Scale Company. (See Reeves, Orwell C., assignor.)
Torre, Mathew. (See Rebelski, A., and Torre.)
Tossizza, Constantin, Paris, France. Apparatus for severing cables. No. 1,397,911; Nov. 22.
Towner, Heber F., Santa Ana, Calif. Vehicle construction. No. 1,397,747; Nov. 22.
Towner, Heber F., Santa Ana, Calif. Depth-regulating draft device for ground-working tools. No. 1,397,748; Nov. 22.
Trial, Lelia A., Los Angeles, Calif. Portable shower-bath apparatus. No. 1,398,206; Nov. 22.
Trosien, Charles G., Pontiac, Mich. Automobile-lock. No. 1,397,564; Nov. 22.
Truck, Tractor and Mfg. Company. (See Jacobs, Isidor M., assignor.)
Trumbull, Annie S., Yakima, Wash. Hose-supporter. No. 1,397,992; Nov. 22.
Turner, Louis N., et al. (See Procunier, F. R., assignor.)
Twin City Forge & Foundry Company. (See Overstrud, Melvin, assignor.)
Tyler, Alva W., assignor, by mesne assignments, to W. Young, Los Angeles, Calif. Concentrator. No. 1,397,749; Nov. 22.
U. S. Light & Heat Corporation. (See Carpenter, Campbell C., assignor.)
Uebelmesser, Charles. (See Winderhold, W., and Uebelmesser.)
Underwood Typewriter Company. (See Puerth, William G., assignor.)
Underwood Typewriter Company. (See Peterson, Edwin A., assignor.)
Underwood Typewriter Co. (See Stickney, Burnham C., assignor.)
Unger, Morris, B. S. Veasie, and J. W. Zarro, Pittsburgh, Pa. Amusement device. No. 1,397,938; Nov. 22.
Unger, Morris, Pittsburgh, Pa. Amusement device. No. 1,397,939; Nov. 22.
United Piece Dye Works, Inc. (See Rau, Albert, assignor.)
Universal Transmission Co. (See Kimball, Don L., assignor.)
Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Gas-main controller. No. 1,398,055; Nov. 22.
Van Bavegen, Edgar, Oosterzeele, Belgium. Constructing reinforced concrete structures. No. 1,398,209; Nov. 22.
Van Deventer, H. R. (See Stimson, Claude J., assignor.)
Vanorio, Joseph. (See Rapp, J. W., and Vanorio.)
Van Vorst, George K., assignor to Amsterdam Broom Company, Amsterdam, N. Y. Whisk-broom. No. 1,398,210; Nov. 22.
Vastola, Charles A., Waterbury, Conn. Phonograph-record cabinet. No. 1,397,940; Nov. 22.
Veasie, Bernard S. (See Unger, M., Veasie, and Zarro.)
Velvet Rubber Company. (See Netzel, Frank M., assignor.)
Victor Typewriter Company. (See Hagerstrom, John A., assignor.)
Vincent, Joseph, Fresno, Calif. Washing-machine. No. 1,397,886; Nov. 22.
Vinton, John H., Keene, N. H., assignor to Baxter D. Whitney & Son, Inc., Winchendon, Mass. Heel-turning-machine block-holder. No. 1,397,844; Nov. 22.
Viollet, Eugene, Limoges, France. Recording apparatus. No. 1,397,710; Nov. 22.
Viratelle, Marcel N., Villeurbanne, Rhone, France. Compensating spring for the front fork of motorcycles. No. 1,397,845; Nov. 22.
Von Canon, James B., West End, N. C. Self-loading vehicle. No. 1,397,993; Nov. 22.
Von Canon, James B., West End, N. C. Self-loading vehicle. No. 1,397,994; Nov. 22.
Wade, David K., Portland, Oreg. Electric sign. No. 1,397,995; Nov. 22.
Wagenhorst, James H., Jackson, Mich. Demountable rim and means for fastening same. No. 1,397,565; Nov. 22.
Walker Brothers Co., The. (See Walker, Willard E., assignor.)
Walker, Edwin J., Jr., Penn Yan, N. Y. Bin structure. No. 1,397,887; Nov. 22.
Walker, Willard E., assignor to The Walker Brothers Company, Syracuse, N. Y. Dish-washing machine. No. 1,397,846; Nov. 22.
Wallace, Harvey H., Brooklyn, assignor to Loft Incorporated, New York, N. Y. Device for draining receptacles. No. 1,398,211; Nov. 22.
Wallis, Thomas M., Gordon, assignor of one-half to A. McCormick, Nashville, Ark. Safety device for cars. No. 1,398,120; Nov. 22.
Walter, William H., Alliance, Ohio. Forming steel wheels. No. 1,397,566; Nov. 22.
Wanser, William B., Locust Valley, N. Y. Broom. No. 1,398,052; Nov. 22.
Watson Wagon Company. (See Keesler, C. C., and Clock, assignors.)
Watts, William R. (See Taylor, W. H., and Watts.)
Weber, David. (See Scarborough, John H., assignor.)
Weber, Guillaume, Hayange, assignor to Societe les Petits Fils de Francois De Wendel et Cie., Paris, France. Explosive. No. 1,397,826; Nov. 22.
Wenderhold, William, and C. Uebelmesser, New York, N. Y., assignor to Cru Patents Corporation. Belt connection. No. 1,397,750; Nov. 22.
Western Electric Company. (See Fitch, Albert L., assignor.)
Westinghouse Air Brake Company, The. (See Thomas, Thomas H., assignor.)
Westinghouse Electric & Manufacturing Co. (See Eberhart, Raymond H., assignor.)
Westinghouse Electric & Manufacturing Co. (See Lindgren, Edwin, assignor.)
Weyandt, Carl S., Pittsburgh, Pa. Electrical tool. No. 1,397,567; Nov. 22.
What Cheer Braid Company. (See Kink, Edward F., assignor.)
Wheeler, James R., Winchester, Oreg. Impregnator. No. 1,398,212; Nov. 22.
Whipp Bros. & Tod, Ltd. (See Craig, Thomas J. I., assignor.)
Whitaker-Glessner Company. (See Hill, Hugh G., assignor.)
Whiteside, Norman N., New York, N. Y. Protective covering. No. 1,398,165; Nov. 22.
Whitney, Baxter D., & Son. (See Vinton, John H., assignor.)
Wickenden, Leonard, Flushing, assignor to Industrial Chemical Company, New York, N. Y. Acid-resisting paint or varnish composition, &c. No. 1,398,084; Nov. 22.
Wilder and Company. (See Munson, Howard B., assignor.)
Wilhjelm, Niels C. L. (See Egar, L. E., and Wilhjelm.)
Williams, Charles J., Thermopolis, Wyo. Chain-fastener. No. 1,397,568; Nov. 22.
Williams, Frank P., and A. McIntyre, Detroit, Mich. Metal desk. No. 1,397,827; Nov. 22.
Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Crusher and pulverizer. No. 1,397,828; Nov. 22.
Williams Patent Crusher & Pulverizer Co. (See Williams, Milton F., assignor.)
Willoughby, Cleveland C. (See Duncan, H. H., and Willoughby.)
Willys-Overland Co., The. (See Green, Charles F., assignor.)
Willys-Overland Company, The. (See Jerdone, Francis, Jr., assignor.)
Willys-Overland Company, The. (See Kehoe, Thomas G., assignor.)
Willys-Overland Company, The. (See Kennedy, John E., assignor.)
Wilson, David H., Philadelphia, Pa. Battery. No. 1,398,213; Nov. 22.
Wilson, Michael E., Detroit, Mich. Direction-indicator for automobiles. No. 1,397,666; Nov. 22.
Wilson, William A., Minneapolis, Minn. Air-pump for automobiles. No. 1,397,829; Nov. 22.
Wilson, William C. (See Bacon, G. C., and Wilson.)
Wilson, William S., Cascades, Quebec, Canada. Umbrella or parasol. No. 1,397,667; Nov. 22.
Winchel, Rudolph, Webb City, Mo. Whirling sewsaw. No. 1,398,166; Nov. 22.
Wishart, William, and A. H. Morrell, Clinton, Iowa, assignors to Clinton Refrigerating Company. Valve-manifold. No. 1,397,912; Nov. 22.
Wojcik, Stefan, assignor of one-half to J. Lewandowski, Detroit, Mich. Sash-fastener. No. 1,397,668; Nov. 22.
Wollensak, Andrew, and F. A. G. Pirwitz, assignors to Wollensak Optical Company, Rochester, N. Y. Photographic shutter. No. 1,397,669; Nov. 22.

Wollensak Optical Company. (See Wollensak, A., and Piritz, assignors.)
Wollenweber, Paul F., assignor to Electric Auto-Lite Corporation, Toledo, Ohio. Electric switch. No. 1,398,053; Nov. 22.
Womack, Elsworth J., Eureka, Wash. Weeder. No. 1,397,847; Nov. 22.
Wood, Clarence G. (See Wood, Frank and C. G.)
Wood, Frank E. and C. G., Girard, Pa. Articles secured to wire and securing same. No. 1,397,848; Nov. 22.
Woods, Norman E., Paterson, N. J., assignor to W. H. Foster, New York, N. Y. Sheet spacing and punching machine. No. 1,397,849; Nov. 22.
Worthington Pump and Machinery Corporation. (See Phillips, Will H., assignor.)
Wright, Harry J., Des Moines, Iowa. Oiling device for internal-combustion-engine timers. No. 1,397,941; Nov. 22.
Wright, Robert, Cleveland, Ohio. Automobile-wheel rim and tire. No. 1,397,996; Nov. 22.
Wycherley, Sydney R., Bromley, assignor to Spicer Brothers, Limited, London, England. Loose-leaf binder. No. 1,398,214; Nov. 22.
Wycherley, Sydney R., Bromley, assignor to Spicer Brothers, Limited, London, England. Loose-leaf binder. No. 1,398,215; Nov. 22.
Yates, William B., Ventura, Calif. Queen-bee-rearing device. No. 1,397,830; Nov. 22.
Yoho, Clarence E. (See Carleton, W. A., and Yoho.)
York, David W., North Abington, Mass. Garment-holder. No. 1,397,670; Nov. 22.
Young, Walter. (See Tyler, Alva W., assignor.)
Yoxall, Henry S., and J. J. Richardson, assignors to Brampton Brothers, Limited, Birmingham, England. Spring-fork for motorcycles. No. 1,397,850; Nov. 22.
Zarro, Joseph W. (See Unger, M., Veasie, and Zarro.)
Zeppegno, Rodolfo, assignor to Lancia & C., Turin, Italy. Device for mounting the springs in vehicles. No. 1,397,997; Nov. 22.
Zettermas, Axel, assignor of one-half to E. Nelson, New Britain, Conn. Butt and set gage. No. 1,397,569; Nov. 22.
Zurovec, Wilhelm, Jr., Fischamend, near Vienna, German Austria. Captive flying-machine of the helicopter type. No. 1,397,998; Nov. 22.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

American Optical Company. (See Hill, Harry W., assignor.)
Automatic Recording Safe Company, The. (See Fisher, Charles, assignor.)
Bassick Company, The. (See Herold, Walter F., assignor.)
Bay State Optical Company. (See Clulee, Stephen J., assignor.)
Barcalo Manufacturing Company. (See Safford, Lewis A., assignor.)
Becker, Daniel L., Oakland, Calif. Vehicle-tire. No. 59,699; Nov. 22.
Bernard, Cecilia, assignor to Blanck & Company, Inc., New York, N. Y. Lace. No. 59,700; Nov. 22.
Bigalow, James H., assignor to The A. C. Williams Company, Ravenna, Ohio. Toy bank. No. 59,701; Nov. 22.
Bigelow, Harry M., Milwaukee, Wis. Mixer. No. 59,702; Nov. 22.
Blanck & Company, Inc. (See Bernard, Cecilia, assignor.)
Blanck & Company, Inc. (See Davis, Elizabeth A., assignor.)
Blanck & Company. (See Kümalehto, Thyra O., assignor.)
Blood, Bryant H., Hartford, Conn., assignor to Pratt & Whitney Company, of New York, N. Y. Gage-Frame. Nos. 59,703–6; Nov. 22.
Bostroem, August. (See Schwartz, S. R., and Bostroem.)
Bruder, Edmund, Chicago, Ill. Game-dial or similar article. Nos. 59,707–8; Nov. 22.
Bruder, Edmund, Chicago, Ill. Disk or element for a game apparatus. No. 59,709; Nov. 22.
Burbank, Clara M., Los Angeles, Calif. Waffle-iron. No. 59,710; Nov. 22.
Carr-Lowrey Glass Company. (See Newell, Louis B., assignor.)
Charles, Carl, Rosedale, Kans. Collar. No. 59,711; Nov. 22.
Clark, David H., Orangeburg, N. Y. Electric immersion-heater. No. 59,712; Nov. 22.
Clark, David H., Orangeburg, N. Y. Stand for a dispensing apparatus. No. 59,713; Nov. 22.
Clarke, Walter H., Toronto, Ontario, Canada. Rubber heel. No. 59,714; Nov. 22.
Clayton, Harry T., Philadelphia, Pa. Game-board. No. 59,715; Nov. 22.
Clulee, Stephen J., Attleboro, Mass., assignor to Bay State Optical Company. Spectacles. No. 59,716; Nov. 22.
Coats, Henry B., Veedersburg, Ind. Solid rubber tire for motor-trucks and the like. No. 59,717; Nov. 22.
Colvin, Walter M., assignor of one-fifth to R. B. Owen, Washington, D. C. Toy balloon-doll. No. 59,718; Nov. 22.
Dahir, Richard J., Omaha, Nebr. Game-board. No. 59,719; Nov. 22.
Dalits, Harry, assignor to The Reliable Manufacturing Company, Cleveland, Ohio. Lens-plate. No. 59,720; Nov. 22.
Davis, Elizabeth A., assignor to Blanck & Company, Inc., New York, N. Y. Lace. Nos. 59,721–3; Nov. 22.
Duarte, George S., New York, N. Y. Radiator-shell. No. 59,724; Nov. 22.
Elliott, Clarence E., and O. L. Nichols, Kansas City, Mo. Radiator ornament. No. 59,725; Nov. 22.
Ellis, Frederick F., Los Angeles, Calif. Traffic-signal. No. 59,726; Nov. 22.
Erickson, Claus E., Des Moines, Iowa. Soap-holder. No. 59,727; Nov. 22.
Fageol, Rollie B., Oakland, Calif. Motor-vehicle wheel and fender assembly. Nos. 59,728–9; Nov. 22.
Finley, William S., Cleveland Heights, Ohio. Savings-bank. No. 59,730; Nov. 22.
Fischer, Howard L., St. Paul, Minn. Pencil. No. 59,731; Nov. 22.
Fischer, William, New York, N. Y. Lapel-button anchor. No. 59,732; Nov. 22.
Fisher, Charles, assignor to The Automatic Recording Safe Company, Chicago, Ill. Savings-bank. Nos. 59,733–4; Nov. 22.
Fuller, Frederick L., Ilion, N. Y., assignor to Remington Arms Company, Inc. Cash-register. No. 59,735; Nov. 22.
General Motors Corporation. (See Sturt, Alfred T., assignor.)
General Tire and Rubber Co. (See Iredell, Robert, assignor.)
George, Maude S., St. Louis, Mo. Garment-protector. No. 59,736; Nov. 22.
Glenn, John W., Buffalo, N. Y. Whistle. No. 59,737; Nov. 22.
Goodyear Tire and Rubber Company. (See Kilborn, K. B., and Wolfe, assignors.)
Goodyear Tire & Rubber Company. (See Wolfe, William S., assignor.)
Goss, Gladys, Nevada, Mo. Toy doll. No. 59,738; Nov. 22.
Granby Phonograph Corporation. (See Howard, Edmond C., assignor.)
Greenfield's, E., Sons. (See Masconi, Celestina, assignors.)
Gruen, D., Sons & Company, The. (See Gruen, Frederick G., assignor.)
Gruen, Frederick G., assignor to The D. Gruen Sons & Company, Cincinnati, Ohio. Wrist-watch. Nos. 59,739–40; Nov. 22.
Gruen, Frederick G., assignor to The D. Gruen Sons & Company, Cincinnati, Ohio. Watch-bow. No. 59,741; Nov. 22.
Hall, George L., Newark, N. J. Screwdriver. No. 59,742; Nov. 22.
Hall, George L., Newark, N. J. Spark-intensifier. No. 59,743; Nov. 22.
Heathcote, Edwin C., Brooklyn, N. Y. Emblem, pin, button, or similar article. Nos. 59,744–5; Nov. 22.
Harold, Walter F., Newark, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster-wheel. No. 59,746; Nov. 22.
Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Blank for an ophthalmic lens. No. 59,747; Nov. 22.
Hirschy, Herman C., Duluth, Minn. Washing-machine. No. 59,748; Nov. 22.
Howard, Edmond C., Norfolk, Va., assignor to Granby Phonograph Corporation. Phonograph-cabinet. Nos. 59,749–51; Nov. 22.
Howard, Edmond C., Norfolk, Va., assignor to Granby Phonograph Corporation. Sound-conduit for phonographs. No. 59,752; Nov. 22.
Iredell, Robert, assignor to The General Tire and Rubber Company, Akron, Ohio. Shoe-heel. No. 59,753; Nov. 22.
Kilborn, Karl B., and W. S. Wolfe, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire. No. 59,755; Nov. 22.
Klenke, August C., Berkeley, Calif. Child's vehicle. No. 59,754; Nov. 22.
Kümalehto, Thyra O., assignor to Blanck & Company, Inc., New York, N. Y. Lace. No. 59,756; Nov. 22.
Laver, John J., Chicago, Ill. Pack of playing-cards. No. 59,757; Nov. 22.
Layne, Leland, Whittier, Calif. Condiment-holder. No. 59,758; Nov. 22.
Levy, Bertha, New York, N. Y. Pocket member. No. 59,759; Nov. 22.
Masconi, Celestina, assignor to E. Greenfield's Sons, Brooklyn, N. Y. Candy or similar article of manufacture. No. 59,760; Nov. 22.
McCarthy, George L., Rye, N. Y. Pack of playing-card. No. 59,761; Nov. 22.
McGrevy, Jeremiah, assignor to Solidarity Watch Case Company, Brooklyn, N. Y. Ribbon Loop for watchcases. Nos. 59,762–3; Nov. 22.
Megar, Joseph, New York, N. Y. Bracelet. No. 59,764; Nov. 22.

Michaels, Chauncey A., New York, N. Y. Holder for towels and other articles. No. 59,765; Nov. 22.
Miller, James, Waterbury, Conn. Duplex buckle. No. 59,766; Nov. 22.
Mount Vernon Company, Silversmiths, The. (See Roth, August J., assignor.)
Newell, Louis B., assignor to Carr-Lowrey Glass Company, Baltimore, Md. Bottle. No. 59,767; Nov. 22.
Nichols, Orville L. (See Elliott, C. E., and Nichols.)
Noe, William R., & Sons. (See Roettges, Frederick, assignor.)
O'Brien, John C., St. Louis, Mo. Wedding-ring. No. 59,768; Nov. 22.
Owen, Richard B. (See Colvin, Walter M., assignor.)
Parker, J. H., & Son. (See Parker, William M., assignor.)
Parker, William M., assignor to J. H. Parker & Son, Incorporated, Parkersburg, W. Va. Plural socket. No. 59,769; Nov. 22.
Piggott, James N., Parkersburg, W. Va. Fish-bait. No. 59,770; Nov. 22.
Plate, Ernst W., Philadelphia, Pa. Bridge for string musical instruments. No. 59,771; Nov. 22.
Potter & Buffinton Company. (See Weed, Edward L., assignor.)
Pratt & Whitney Company. (See Blood, Bryant H., assignor.)
Pruzan, Walter E., New York, N. Y. Brassière. No. 59,772; Nov. 22.
Raff, Bertram, New York, N. Y. Combination book-cover and book-mark or article of similar nature. No. 59,773; Nov. 22.
Reliable Manufacturing Company, The. (See Dalitz, Harry, assignor.)
Remington Arms Company. (See Fuller, Frederick L., assignor.)
Rice, Richard, assignor of one-half to H. Vivian, Virden, Ill. Fuse cutter and splitter. No. 59,774; Nov. 22.
Roehl, William, Manitowoc, Wis. Tackle-box. No. 59,775; Nov. 22.
Roettges, Frederick, Stamford, Conn., assignor to W. R. Noe & Sons, New York, N. Y. Lamp or other pedestal. Nos. 59,776–8; Nov. 22.
Roettges, Frederick, Stamford, Conn., assignor to W. R. Noe & Sons, New York, N. Y. Lamp or other shade. Nos. 59,779–81; Nov. 22.
Roth, August J., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Handle or similar article of manufacture. No. 59,782; Nov. 22.
Roth, August J., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Handle construction for an automobile-window regulator or similar article of manufacture. No. 59,783; Nov. 22.
Roth, August J., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Trimming for an automobile-domelight or similar article of manufacture. No. 59,784; Nov. 22.
Russel, George N., Lawrence, Kans., and O. W. Russel, Kansas City, Mo. Traffic-signal. No. 59,785; Nov. 22.
Russel, Orson W. (See Russel, George N. and O. W.)
Safford, Lewis A., assignor to Barcalo Manufacturing Company, Buffalo, N. Y. Handle for wrenches or similar hand-tool. No. 59,786; Nov. 22.
Scatterday, Evalyn R., Columbus, Ohio. Doll. No. 59,787; Nov. 22.
Schwartz, Samuel R., and A. Bostroem; said Bostroem assignor to said Schwartz, New York, N. Y. Lamp-shade. No. 59,788; Nov. 22.
Simmons Company. (See Stuart, Charles A., assignor.)
Solidarity Watch Case Company. (See McGrevy, Jeremiah, assignor.)
Stuart, Charles A., assignor to Simmons Company, Kenosha, Wis. Grille for bedstead end frames. No. 59,789; Nov. 22.
Sturt, Alfred T., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Motor-driven farm-truck. No. 59,790; Nov. 22.
Szepe, Joseph J., Pittsburgh, Pa. Coin and fare holder. No. 59,791; Nov. 22.
Taylor, Robert S., Seattle, Wash. Spring-hanger bracket. No. 59,792; Nov. 22.
Thompson, Peter J., Belleville, N. J. Vanity-case, brooch, pin, or similar article of jewelry. No. 59,793; Nov. 22.
Troast, William F., Lancaster, Pa. Vehicle-tire. No. 59,794; Nov. 22.
Vilandrer, Anna L., New York, N. Y. Clasp or hook for a waist-belt. No. 59,795; Nov. 22.
Vivian, Harry. (See Rice, Richard, assignor.)
Wakeham, Gertrude, Marshall, Wis. Sled. No. 59,797; Nov. 22.
Warren, Arthur G., Worcester, Mass. Emblematic badge, pin, or button. No. 59,796; Nov. 22.
Weed, Edward L., assignor to Potter & Buffinton Company, Providence, R. I. Charm. No. 59,798; Nov. 22.
West, Bina M., Port Huron, Mich. Brooch. No. 59,799; Nov. 22.
Williams, A. C., Company, The. (See Bigalow, James H., assignor.)
Wilson, Mary F. F., New Rochelle, N. Y. Lamp-shade. No. 59,800; Nov. 22.
Wise, Benjamin, New York, N. Y. Telephone-receiver holder. No. 59,801; Nov. 22.
Wittstein, Charles T., Newark, N. J. Phonograph-cabinet. No. 59,802; Nov. 22.
Wolfe, William S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire. No. 59,803; Nov. 22.
Wolfe, William S. (See Kilborn, K. B., and Wolfe.)
Worsnop, Charles H., Halifax, England. Sheet-metal stock for making cells or containers for electrical accumulators. No. 59,804; Nov. 22.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

American Scientific Laboratory, The, Los Angeles, Calif. Liquid purgative. No. 148,753; Nov. 22.
Anderson, George W., Enid, Okla. Non-alcoholic, non-cereal, maltless beverages and syrups for making the same. No. 148,630; Nov. 22.
Aron, J., & Company, Inc., New Orleans, La. Green coffee. No. 148,631; Nov. 22.
Automatic Fuel Saving Co., Wilmington, Del., and Philadelphia, Pa. Compressed-air systems of automatic combustion control for steam-boilers. No. 148,632; Nov. 22.
Bach, Lesem, New York, N. Y. Piece goods. No. 148,633; Nov. 22.
Bakal, S., & Son, New York, N. Y. Hair-nets. No. 148,634; Nov. 22.
Bassick Manufacturing Co., The, Chicago, Ill. Certain lubricating apparatus. No. 148,635; Nov. 22.
Bayer Company, Inc., The, New York, N. Y. Antirheumatic, analgesic, and antipyretic. No. 148,636; Nov. 22.
Borget, Leo A., San Francisco, Calif. Medicine for treatment of nervous system. No. 148,637; Nov. 22.
Cahill, W. J., Company, Meriden, Conn. Wheat-flour. No. 148,638; Nov. 22.
Carroll, Frank S., Asheville, N. C. Antiseptic mouth-washes. No. 148,639; Nov. 22.
Carter Medicine Company, New York, N. Y. Plasters for the relief of aches and pains. No. 148,640; Nov. 22.
Chicago Fire Brick Co., Chicago, Ill. Certain construction materials. No. 148,641; Nov. 22.
Chism, George F., Columbus, Ohio. Mechanical traffic-signals for vehicles. No. 148,642; Nov. 22.
Columbia Powder Puff Co., New York, N. Y. Powder-puffs. No. 148,643; Nov. 22.
Commercial Union of America, Incorporated, New York, N. Y. Wheat-flour. No. 148,644; Nov. 22.
Como Chemical Co., Kokomo, Ind. Sulfate of alumina. No. 148,645; Nov. 22.
Cruse Company, Inc., The, New York, N. Y. Gum cream and dentifrice. No. 148,754; Nov. 22.
Dash, Allan J., Company, Inc., Rochester, N. Y. Medicine for certain purposes. No. 148,755; Nov. 22.
Davenport Candy Co., Davenport, Iowa. Candy. No. 148,756; Nov. 22.
Davis, Samuel P., Little Rock, Ark. Cattle and stock feed. No. 148,757; Nov. 22.
De Leon Bandeau Co., The, St. Louis, Mo. Hat-bandeaux. No. 148,758; Nov. 22.
Dedrick, William A., Indianapolis, Ind. Hair-tonic and medicinal scalp treatment. No. 148,646; Nov. 22.
Doty, Clarence A., Lakewood, Ohio. Soap. No. 148,759; Nov. 22.
Electric Machine Company, The, Indianapolis, Ind. Stands for testing starting-motors and electric generators and growlers for testing armatures. No. 148,647; Nov. 22.
Elfman, Louis A., Philadelphia, Pa. Horse-racing amusement game apparatus. No. 148,648; Nov. 22.
Fibroc Insulation Company, Valparaiso, Ind. Certain electric insulating compounds. No. 148,649; Nov. 22.
Fialla & Eppler Inc., New York, N. Y. Crushed fruits. No. 148,760; Nov. 22.
Fomite Firefoam Company, New York, N. Y. Fire-extinguishing compounds. No. 148,650; Nov. 22.
Fox River Paper Company, Appleton, Wis. Writing-paper. No. 148,651; Nov. 22.
Frank & Goldsmith, Chicago, Ill. Non-alcoholic, maltless beverage and syrup for making same. No. 148,652; Nov. 22.
Galland-Henning Mfg. Co., Milwaukee, Wis. Machinery consisting of hydraulic and screw presses, pumps, &c. No. 148,653; Nov. 22.
Gallatin Valley Milling Company, Seattle, Wash., and Belgrade, Mont. Wheat-flour. No. 148,654; Nov. 22.
Gilpin, Henry B., Co., The, Baltimore, Md. Certain medicinal and chemical preparations. No. 148,655; Nov. 22.
Glena, John W., Buffalo, N. Y. Certain paraffin toys. No. 148,761; Nov. 22.
Grant, W. T., Company, New York, N. Y. Natural and artificial pearls. No. 148,656; Nov. 22.
Great Northern Supply Company, The, Cleveland, Ohio. Certain medicinal salve. No. 148,657; Nov. 22.
Gregg, J. D., Liberty, N. C. Medicine for treatment of the liver. No. 148,658; Nov. 22.
Griffin, James W., Waterloo, Iowa. Certain medicinal preparation. No. 148,659; Nov. 22.
Malper, Victor, New York, N. Y. Certain medicinal preparation. Nos. 148,660–1; Nov. 22.
Harrower, Henry R., Glendale, Calif. Pluriglandular formulas for the treatment of various endocrine insufficiencies. No. 148,662; Nov. 22.
Hayfay Laboratories, Union Hill, N. J. Dentifrice. No. 148,663; Nov. 22.
Helvetia Milk Condensing Company, Highland, Ill. Sweetened, unsweetened, full-cream evaporated and condensed milk and unsweetened whole-cream milk. Nos. 148,664–5; Nov. 22.
Hinrichs, George F., Inc., New York, N. Y. Dressed poultry. No. 148,666; Nov. 22.
Holmes Automobile Company, The, Canton, Ohio. Automobiles. No. 148,667; Nov. 22.
Houbigant, Inc. (See Parfumerie Houbigant, assignors.)
Hoy, F. P., Inc., New York, N. Y. Corsets. No. 148,669; Nov. 22.
Hunter, Francis M., Portland, Oreg. Medicinal salve. No. 148,670; Nov. 22.
Huntington Shoe and Leather Company, Huntington, Ind. Boots and shoes of leather, or partly of leather and cloth. No. 148,671; Nov. 22.
International Corset Company, Aurora, Ill. Corsets. No. 148,672; Nov. 22.
International Tray Co., New York, N. Y. Wooden trays. No. 148,762; Nov. 22.
Jann, Jacob, Philadelphia, Pa. Remedy for whooping-cough and to alleviate colds and sore throat. No. 148,673; Nov. 22.
Jergens, Andrew, Company, The, Cincinnati, Ohio. Perfume. No. 148,674; Nov. 22.
Jergens, Andrew, Company, The, Cincinnati, Ohio. Skin-lotion. No. 148,675; Nov. 22.
Jergens, Andrew, Company, The, Cincinnati, Ohio. Toilet powder. No. 148,676; Nov. 22.
Johnson, Cowdin & Company, Inc., New York, N. Y. Certain toilet preparations. Nos. 148,677–8; Nov. 22.
Kass, Hyman M., New York, N. Y. Collars and cuffs. No. 148,679; Nov. 22.
Katzenbach & Bullock Co., New York, N. Y. Certain chemical, medical, and pharmaceutical preparations. No. 148,680; Nov. 22.
King & Company, New York, N. Y. Hosiery. No. 148,681; Nov. 22.
Krojer, Steve, Cleveland, Ohio. Cleaning preparation used for cleaning carpets, rugs, and the like. No. 148,682; Nov. 22.
Less-Koal Manufacturing Company, Boston, Mass. Powdered composition to be dissolved in water and sprinkled over coal to facilitate combustion. No. 148,683; Nov. 22.
Lincoln, Edward K., New York, N. Y. Chemical preparation in tablet form for intensifying gasolene and removing carbon. No. 148,684; Nov. 22.
Linse, Henry F., Chicago, Ill. Shampoo and dandruff-remover, powder form. No. 148,685; Nov. 22.
Luff, Jay H., Hudson, N. Y. Liniment. No. 148,764; Nov. 22.
Lyons, Otis R., Kansas City, Mo. Certain medicinal preparations. No. 148,686; Nov. 22.
McCartney, Alexander B., Marshalltown, Iowa. Candies. No. 148,687; Nov. 22.
Magnus Fruit Products Co., San Francisco, Calif. Non-alcoholic, maltless beverage. No. 148,688; Nov. 22.
Marshall Field & Company, Chicago, Ill. Muslin in the piece and pillow-cases. No. 148,689; Nov. 22.
Marshall Oil Company of Iowa, Marshalltown, Iowa. Radiator compounds. No. 148,765; Nov. 22.
Matranga, Michael, New York, N. Y. Non-alcoholic, non-cereal, maltless beverage. No. 148,690; Nov. 22.
Moore, Laura E., Griffin, Ga. Hair-grower for shampooing, oiling, and straightening the hair. No. 148,691; Nov. 22.
Murphy, P. H., Company, New Kensington, Pa. Railroad-car metal roofs and certain parts of such roofs. No. 148,692; Nov. 22.
Myers-Harbough Company, Portland, Oreg. Certain medicinal preparation. No. 148,766; Nov. 22.
Neuss, Hesslein & Co., Inc., New York, N. Y. Woven cotton piece goods. No. 148,693; Nov. 22.
Neuss, Hesslein & Co., Inc., New York, N. Y. Woven cotton piece goods—namely, cotton canvas. No. 148,694; Nov. 22.
Never-Stretch Mattress Company, Philadelphia, Pa. Mattresses. No. 148,767; Nov. 22.
No Ruma Medicine Co., Albuquerque, N. Mex. Medicinal preparation for the treatment of rheumatism, lumbago, &c. No. 148,695; Nov. 22.
Nuforal Laboratories, Inc., New York, N. Y. Preparation for treatment of tuberculosis. Nos. 148,696–8; Nov. 22.
Nux-I-Kola Company, Detroit, Mich. General tonic. No. 148,699; Nov. 22.
Ott, B. F., Payson, Utah. Medicine for treatment of eczema, and all diseases of skin and scalp. No. 148,700; Nov. 22.
Parfumerie Houbigant, Paris, France, assignors to Houbigant, Inc., New York, N. Y. Face and toilet powder. No. 148,668; Nov. 22.
Paulson, Henry, Chicago, Ill. Spectacle and eyeglass frames. No. 148,722; Nov. 22.
Pe-Do-Lo Chemical Company, Wilson, N. C. Foot-lotion. No. 148,701; Nov. 22.
Pep Electrolite Co., Chicago, Ill. Storage-battery electrolite. No. 148,702; Nov. 22.
Perfex Radiator Company, Racine, Wis. Automobile-radiators. No. 148,703; Nov. 22.
Perfumeria Floralia S. A., Madrid, Spain. Talc and face-powders, perfumes, hair-tonic, colognes, and toilet waters. No. 148,704; Nov. 22.

Pioneer Creamery Co., Galesburg, Ill. Butter, eggs, and cream. No. 148,705; Nov. 22.
Pittsburgh Dry Goods Company, The, Pittsburgh, Pa. Hosiery. No. 148,706; Nov. 22.
Plough Chemical Company, Memphis, Tenn. Certain medicinal and toilet preparations. Nos. 148,723–4; Nov. 22.
Pond, Katherine R., Rutland, Vt. Lubricant to be applied to the human skin. No. 148,725; Nov. 22.
Poth & Kuehner, St. Louis, Mo. Preparation for the treatment of piles. No. 148,726; Nov. 22.
Prontle Druggists Inc., The, Baltimore, Md. Certain medicinal and pharmaceutical preparations. No. 148,727; Nov. 22.
Puebla, Aniana Y., Cordoba, Spain. Olive-oil. No. 148,768; Nov. 22.
Puritan Mfg. Co., The, Toledo, Ohio. Certain garment-fastening device. No. 148,728; Nov. 22.
Queens Pharmacal Co., Inc., New York, N. Y. Antiseptic ointment. No. 148,763; Nov. 22.
Reine, Lewis, San Francisco, Calif. Malt and hops syrup. No. 148,769; Nov. 22.
Richardson, Frederick E., New York, N. Y. Ice-cream and meringue powders. No. 148,730; Nov. 22.
Rincones, P. R., Jr., Co. Inc., New York, N. Y. Mercury injection. No. 148,707; Nov. 22.
Robinson, A. M., Company, Atlanta, Ga. Cotton piece goods. No. 148,731; Nov. 22.
Robinson, David, Brooklyn, N. Y. Ammonia. No. 148,732; Nov. 22.
Robinson, Edward P., New York, N. Y. Certain medicinal preparation. No. 148,733; Nov. 22.
Rodier, E., & Cie., Paris and Courbevoie, France. Perfumes, toilet creams, hair-lotions, dentifrices, &c. No. 148,708; Nov. 22.
Roussel, Maurice, Paris, France. Perfumes, toilet waters, face-lotions, beauty-creams, &c. No. 148,735; Nov. 22.
Rosenberg Bros. & Co., Rochester, N. Y. Men's coats, vests, pants, and overcoats. No. 148,709; Nov. 22.
Ross & Company, Brooklyn, N. Y. Spectacle frames and rims made wholly or in part of celluloid. No. 148,734; Nov. 22.
Ross, Sydney, Company Inc., The, Newark, N. J., and New York, N. Y. Talcum powder. No. 148,716; Nov. 22.
Royal Baking Powder Company, Jersey City, N. J., and New York, N. Y. Baking-powder. No. 148,736; Nov. 22.
Pyott, George W. Co., Chicago, Ill. Certain parts of machinery. No. 148,729; Nov. 22.
San Antonio Drug Co., San Antonio, Tex. Gargle, mouth-wash, and nasal spray. No. 148,737; Nov. 22.
Savage, Linnaeus T., New York, N. Y. Manually and self-propelled mechanical toys. No. 148,770; Nov. 22.
Schroeder & Company, Inc., New York, N. Y. Girls' and misses' dresses. No. 148,774; Nov. 22.
Sears, Roebuck and Co., Chicago, Ill. Chambray in the piece. No. 148,738; Nov. 22.
Shull Lumber & Shingle Co., Seattle, Wash. Shingles. No. 148,739; Nov. 22.
Simplo Füllfeder-Gesellschaft Voss, Lausen & Dalambor, Hamburg, Germany. Fountain-pens. No. 148,710; Nov. 22.
Smith, Alfred E., Company, New York, N. Y. Certain toilet preparations. No. 148,740; Nov. 22.
Smith, J. P., Shoe Co., Chicago, Ill. Shoes of leather, canvas and leather, canvas and rubber, and leather and rubber. Nos. 148,711–18; Nov. 22.
Smith, W. D., Silver Co., Chicago, Ill. Silverware, and particularly hollow ware and flat-ware. No. 148,714; Nov. 22.
Soderseine Company of North America, The, Wilmington, Del., and Brooklyn, N. Y. Certain medicinal preparation. No. 148,741; Nov. 22.
Southern Beverage Company, Galveston, Tex. Root-beer. No. 148,715; Nov. 22.
Southwestern Milling Company, Inc., The, New York, N. Y. Wheat-flour. No. 148,771; Nov. 22.
Stauber Manufacturing Co., The, Clinton, Iowa. Garments for women and children—namely, aprons and dresses. No. 148,742; Nov. 22.
Stein, Jacob, New York, N. Y. Baby-pants and aprons. No. 148,743; Nov. 22.
Tansch Company, Chicago, Ill. Antiseptic for use after shaving. No. 148,744; Nov. 22.
Texas Star Flour Mills, Galveston, Tex. Wheat-flour. No. 148,717; Nov. 22.
Towers, Williamson & Tollett, Guthrie, Okla. Preparation for the treatment of dandruff and eczema. No. 148,745; Nov. 22.
Union Card & Paper Co., New York, N. Y. Certain papers. No. 148,718; Nov. 22.
Vivandou, V., Inc., New York, N. Y. Rouge and face-powder. No. 148,746; Nov. 22.
Voter, G. H., Inc., Boston, Mass. Wood-preservative. No. 148,747; Nov. 22.
Warner, William E., & Co., Inc., Wilmington, Del.; New York, N. Y., and St. Louis, Mo. Certain medicinal preparation. No. 148,719; Nov. 22.
Wechsler, Barber Silk Co., Inc., New York, N. Y. Silk and silk-mixture fabrics in the piece. No. 148,720; Nov. 22.
Weldon Drug Co., Weldon, N. C. Certain medicinal preparations. No. 148,721; Nov. 22.
Wilkins, Horace P., Chicago, Ill. Laxative tonic medicine. No. 148,772; Nov. 22.
Williams, J. B., Company, Glastonbury, Conn. Talcum powder. No. 148,748; Nov. 22.
Wisconsin Butter & Cheese Co., The, Elkhorn, Wis. Compound Milk. No. 148,749; Nov. 22.
Wiseman, Fieldon W., St. Louis, Mo. Toilet creams, powders, and lotions, perfumes. No. 148,750; Nov. 22.
Wrigley, Wm., Jr., Company, Chicago, Ill. Chewing-gum. No. 148,751; Nov. 22.
Wynee, Oliver, Norfolk, Va. Lard substitutes composed of cotton-seed oil and other ingredients. No. 148,773; Nov. 22.
Ziegler, A., & Sons Company, Roxbury, Mass. Suspenders, garters, men's belts and armbands. No. 148,752; Nov. 22.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Aims, Wm. D. P., Philadelphia, Pa. "Iridio." (For Medicinal Proprietory Preparation.) No. 23,652; Nov. 22.
Alamo Packing Company, Los Angeles, Calif. "Alamo Brand." (For Cantaloupe.) No. 23,653; Nov. 22.
American Marshmallow and Candy Company, Chicago, Ill. "A. B. C." (For Packages and Cartons Containing Marshmallow Creme.) No. 23,654; Nov. 22.
Barnet Leather Co. Inc., New York, N. Y. "Okay." (For Calf-Leather.) No. 23,655; Nov. 22.
Barnet Leather Co. Inc., New York, N. Y. "Melan." (For Calf-Leather.) No. 23,656; Nov. 22.
Barnet Leather Co. Inc., New York, N. Y. "Chic." (For Calf-Leather.) No. 23,657; Nov. 22.
Bowen, Dave, Cairo, Ga. "Insect Gas." (For Insecticides.) No. 23,658; Nov. 22.
Brer Rabbit Candy Company, Detroit, Mich. "Brer Rabbit Kisses." (For Candy Wrappers, Boxes, and Containers as Used in Marketing the Candy Sold by This Company.) No. 23,659; Nov. 22.
Bushway Ice Cream Company. (See Menasha Printing and Carton Company, assignors.)
Camp, Mrs. Kathryn, Indianapolis, Ind. "Nu-Life Silver Plate and Polish." (For Bottled Silver Plate and Polish.) No. 23,660; Nov. 22.
Choc-O-La Co., San Francisco, Calif. "Be-Ar-O-La." (For a Non-Alcoholic Beverage, Sold as a Soft Drink and Containing Sugar and Chocolate Flavoring.) No. 23,661; Nov. 22.
Eagle Beverage Co., Rochester, N. Y. "Lawrence Brand X X X Malt." (For Beverages (Malt).) No. 23,662; Nov. 22.
Equity Growers & Shippers Association, Hamilton, Mont. "Equity." (For Apples.) No. 23,663; Nov. 22.
Frances Fox Laboratories, Inc., New York, N. Y. "Frances Fox Olive Soap For Hair & Skin." (For Soap.) No. 23,664; Nov. 22.
Frankel, B., Co. Inc., The, New York, N. Y. "Sister Susie." (For Boxes, Packages, or Envelops Containing Hair-Nets.) No. 23,665; Nov. 22.
Frosnpure Ice Cream Company Incorporated. (See Menasha Printing and Carton Company, assignors.)
Gary, Theo H., Co., New York, N. Y. "Unicrim Real Human Hair Nets." (For Hair-Nets.) No. 23,666; Nov. 22.
Hoefler, Harry, Candy Company, San Francisco, Calif. "Harry's Chocolate." (For Packages, Containers, or Boxes for Containing the Confection.) No. 23,667; Nov. 22.
Imperial Candy Co., Seattle, Wash. "Brownie Scotch Toffee." (For Scotch Toffee.) No. 23,668; Nov. 22.
Inderrieden Canning Co., Chicago, Ill. "Pewankee Lake." (For Canned Peas.) No. 23,669; Nov. 22.
Inderrieden Canning Co., Chicago, Ill. "Menu." (For Canned Peas.) No. 23,670; Nov. 22.
Inderrieden Canning Co., Chicago, Ill. "High-Life." (For Canned Peas.) No. 23,671; Nov. 22.
Inderrieden Canning Co., Chicago, Ill. "Wireless." (For Canned Peas.) No. 23,672; Nov. 22.
International Consolidated Chemical Corporation, Inc., New York, N. Y. "Tokalon Lip Rouge." (For Receptacles and Packages Containing Deep and Light-Colored Lip-Rouges, Known in the Trade as Fonce and Clair, Respectively.) No. 23,673; Nov. 22.
Krause, Max Ernest, Cincinnati, Ohio. "Royal." (For Tin Cans Containing Malt Extract.) No. 23,674; Nov. 22.
Malone & Hyde, Inc., Memphis, Tenn. "Golden Eagle." (For Coffee.) No. 23,675; Nov. 22.
Martin, W. E., Chicago, Ill. "E-Z Blue." (For Bluing for Laundry or Washing Purposes.) No. 23,676; Nov. 22.

Menasha Printing and Carton Company, Menasha, Wis. "Creamery Butter." (For Cartons Containing Butter.) No. 23,677; Nov. 22.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Toloma Creamery, Los Angeles, Calif. "Toloma." (For Cartons Containing Butter.) No. 23,678; Nov. 22.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Bushway Ice Cream Company, Somerville, Mass. "Bushway's." (For Cartons Containing Ice-Cream.) No. 23,679; Nov. 22.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Sterling Dairy Products Company, Twin Falls, Idaho. "Clover Dew." (For Cartons Containing Butter.) No. 23,680; Nov. 22.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Stephenson County Co-operative Marketing Company, Freeport, Ill. "Vita Gold." (For Cartons Containing Butter.) No. 23,681; Nov. 22.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Frosnpure Ice Cream Company Incorporated, Louisville, Ky. "Frosnpure." (For Cartons Containing Ice-Cream.) No. 23,682; Nov. 22.
Milwaukee Paper Box Company, Milwaukee, Wis. "Billet Deaux." (For Boxes Containing Chocolate Candy.) No. 23,683; Nov. 22.
Milwaukee Paper Box Company, Milwaukee, Wis. "Mel-O-Del." (For Boxes Containing Chocolate Candy.) No. 23,684; Nov. 22.
Milwaukee Paper Box Company, Milwaukee, Wis. "Don Juan." (For Boxes Containing Chocolate Candy.) No. 23,685; Nov. 22.
Milwaukee Paper Box Company, Milwaukee, Wis. "Assorted Chocolates." (For Boxes Containing Assorted Chocolates.) No. 23,686; Nov. 22.
Milwaukee Paper Box Company, Milwaukee, Wis. "Cherrisweets." (For Boxes Containing Cherries in Candy.) No. 23,687; Nov. 22.
Milwaukee Paper Box Company, Milwaukee, Wis. "Milk Mints." (For Boxes Containing Milk Mints.) No. 23,688; Nov. 22.
Milwaukee Paper Box Company, Milwaukee, Wis. "Heath Quality Fruit Cake." (For Boxes Containing Fruit Cake.) No. 23,689; Nov. 22.
Minish, Wm. N., & Son, Elkin, N. C. "Red Lion." (For Laundry Soap.) No. 23,690; Nov. 22.
Moore, Walton N., Dry Goods Co., San Francisco, Calif. "Dreadnought." (For Work-Shirts.) No. 23,691; Nov. 22.
Murray, John F., New York, N. Y. "Macbeth's Ox Gall Tablets Compound." (For Cartons or Boxes Inclosing or Containing a Pharmaceutical Preparation or Compound Containing Ox-Gall.) No. 23,692; Nov. 22.
Murray, John F., New York, N. Y. "Macbeth's Ox Gall Tablets Compound." (For Cartons or Boxes Inclosing or Containing a Pharmaceutical Preparation or Compound Containing Ox-Gall.) No. 23,693; Nov. 22.
Nicomors Products Company, The, Cleveland, Ohio. "Nicomors the Super-Gum." (For Chewing-Gum.) No. 23,694; Nov. 22.
Owens & Collins Co., Lodi, Calif. "Royal Arch." (For Grapes.) No. 23,695; Nov. 22.
Patterson, M. F., Dental Supply Company, St. Paul, Minn. "Knapp's Outer Investment." (For Dental Investment Material.) No. 23,696; Nov. 22.
Patterson, M. F., Dental Supply Company, St. Paul, Minn. "Knapp's Inner Investment." (For Dental Investment Material.) No. 23,697; Nov. 22.
Popel-Gillet Co., Warsaw, Ill. "Instant Pilsener Brand." (For Malt and Hop Syrup.) No. 23,698; Nov. 22.
Rider, S. A., Company, Chicago, Ill. "Ridernet." (For Hair-Nets.) No. 23,699; Nov. 22.
Ross, George A., Forestville, Calif. "U S Brand." (For Gravenstein Apples.) No. 23,700; Nov. 22.
Sanitwax Paper Co., Kalamazoo, Mich. "Old Fashioned." (For Bread.) No. 23,701; Nov. 22.
Sanitwax Paper Co., Kalamazoo, Mich. "Mother's." (For Bread.) No. 23,702; Nov. 22.
Schwab, Abraham, Memphis, Tenn. "Schwab's Nature Soap." (For Toilet Soap.) No. 23,703; Nov. 22.
Simmons Company, Kenosha, Wis. "Simmons Mattress." (For Mattresses.) No. 23,704; Nov. 22.
Spanish Chemical Co., Springer, N. Mex. "Aceite Calliente." (Hot Oil.) (For a Liniment Called Aceite Calliente.) No. 23,705; Nov. 22.
Star Merchandise Company, New York, N. Y. "Lasher's Giraffe Elastic." (For All Kinds of Elastics and Elastic Braids.) No. 23,706; Nov. 22.
Steel Packing Company, San Diego, Calif. "Kenilworth." (For Tuna.) No. 23,707; Nov. 22.
Stephenson County Co-operative Marketing Company. (See Menasha Printing and Carton Company, assignor.)
Sterling Dairy Products Company. (See Menasha Printing and Carton Company, assignors.)
Stoll & Edwards Co. Inc., New York, N. Y. "The House That Jack Built." (For Doll-Houses.) No. 23,708; Nov. 22.
Stoll & Edwards Co. Inc., New York, N. Y. "Game of Mother Goose." (For Game.) No. 23,709; Nov. 22.
Stoll & Edwards Co. Inc., New York, N. Y. "Game of Black Beauty." (For Game.) No. 23,710; Nov. 22.
Tech Food Products Co., Pittsburgh, Pa. "Polly Tech." (For Ice-cream.) No. 23,711; Nov. 22.
Texas Star Flour Mills, Galveston, Tex. "Ambrosia." (For Wheat-Flour.) No. 23,712; Nov. 22.
Toloma Creamery. (See Menasha Printing and Carton Company, assignor.)
Townsend Wholesale Grocery Company, Maryville, Mo. "Nickel Plate." (For Coffee.) No. 23,713; Nov. 22.
Tropical Date Company, Inc., Thermal, Calif. "California Dates." (For Dates.) No. 23,714; Nov. 22.
Welch Grape Juice Company, The, Westfield, N. Y. "Welch's Apple Butter." (For Apple-Butter.) No. 23,715; Nov. 22.
Woodward & Cochey, Inc., Lynn, Mass. "Flexo Harness." (For Toy Harnesses.) No. 23,716; Nov. 22.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Bis-Mac Co., The, Baltimore, Md. "Bis-Mac." (For Advertising Purposes for a Non-Intoxicating Beverage.) No. 5,831; Nov. 22.
Capitol Fuel Company, The, Cleveland, Ohio. "Capitol Fuel." (For Advertising Purposes for Coal.) No. 5,832; Nov. 22.
General Baking Company, New York, N. Y. "Bond Bread." (For Advertising Purposes for Bond Bread.) No. 5,833; Nov. 22.
Genesee Pure Food Company, The, Le Roy, N. Y. "Telling Mamma About Jell-O." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 5,834; Nov. 22.
National Carbon Company, Inc., Cleveland, Ohio. "Columbia Dry Batteries." (For Advertising Purposes for Columbia Dry Batteries.) No. 5,835; Nov. 22.
National Carbon Company, Inc., Cleveland, Ohio. "Columbia Storage Batteries." Nos. 5,836–7; Nov. 22.
Orange Crush Company, Chicago, Ill. "—like oranges? drink Orange-Crush." (For Advertising Purposes for Orange Crush.) No. 5,838; Nov. 22.
Orange Crush Company, Chicago, Ill. "—like lemon? drink Lemon-Crush." (For Advertising Purposes for Lemon Crush.) No. 5,839; Nov. 22.
Schrader's, A., Son, Incorporated, Brooklyn, N. Y. "Schrader Universal Tire-Pressure-Gauge Schrader Universal Inflating Valve." (For Advertising Purposes for Tire Pressure-Gages, and Inflating-Valves.) No. 5,840; Nov. 22.
Sinclair Refining Company, Chicago, Ill. "Sinclair Motor Oil in One Quart Cans." (For Advertising Purposes for Sinclair Oils.) No. 5,841; Nov. 22.
Sinclair Refining Company, Chicago, Ill. "Be Fair to Your Car!" (For Advertising Purposes for Sinclair Oils.) No. 5,842; Nov. 22.
V. G. Baking Company, Allentown, Pa. "V. G. Baking Co. Pretzels, Cones." (For Advertising Purposes for Pretzels and Cones.) No. 5,843; Nov. 22.
Withrow, Floyd G., Grand Rapids, Mich. "Handy Grease Retainers." (For Advertising Purposes for Grease-Retainers.) No. 5,844; Nov. 22.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abdominal Couch Company, St. Louis, Mo. Exercises. No. 151,900; Nov. 22.

Aberdeen Candies, Boston, Mass. Candy. No. 151,859; Nov. 22.

Abrahams, Leo M., New York, N. Y. Condensed milk. No. 152,227; Nov. 22.

Ace Manufacturing Company, Portland, Me. Porcelain-cleaning compound. No. 152,113; Nov. 22.

Advertising Distributors Ass'n, New York, N. Y. Umbrellas. No. 154,009; Nov. 22.

Affiliated Distributors Inc., New York, N. Y. Moving-picture films and stereopticon projection-films. No. 148,524; Nov. 22.

Agol Chemical Company, Washington, D. C. Mouth-wash, gargle, or nasal and throat spray. No. 152,115; Nov. 22.

Agol Chemical Company, Washington, D. C. Headache and neuralgia remedy. No. 152,116; Nov. 22.

Ajax Electric Specialty Company, St. Louis, Mo. Electrical plugs, rosettes, receptacles, and sockets. No. 150,496; Nov. 22.

Allandale Knitting Mills, Inc., New York, N. Y. Knitted sweaters and scarfs. No. 148,011; Nov. 22.

Allen-Nugent Co., The, New York, N. Y. Weekly publication. No. 152,734; Nov. 22.

Allen's N. R., Sons Company, Kenosha, Wis. Leather. No. 150,259; Nov. 22.

Alpine Chocolates Company, Boston, Mass. Candy. No. 152,358; Nov. 22.

American Oil Company, The, Providence, R. I. Oil used in the treatment of woolen fabrics. No. 152,114; Nov. 22.

American Safety Razor Corporation, New York and Brooklyn, N. Y. Razors, razor-blades, safety-razors and safety-razor blades. No. 149,436; Nov. 22.

American Steel Export Company, New York, N. Y. Electric batteries. No. 150,301; Nov. 22.

American Wholesale Corporation, (Baltimore Bargain House,) Baltimore, Md. Cut glass, sheet-glass, glass tableware, &c. No. 136,057; Nov. 22.

American Writing Paper Company, Holyoke, Mass. Writing and printing papers and mailing-envelops. No. 153,322; Nov. 22.

Angel Dainty Dye Co., Chicago, Ill. Cloth-dyes. No. 139,658; Nov. 22.

Anthes, Albert N., Fort Madison, Iowa. Shock-absorbers for vehicles. No. 149,574; Nov. 22.

Ascher, Leopold, New York, N. Y. Leather and hair brushes. No. 137,353; Nov. 22.

Atlas Candy Mfg. Co. Inc., The, Lynchburg, Va. Chocolates and candies. No. 152,158; Nov. 22.

Ault & Wiborg Company of N. Y., The, New York, N. Y. Gritless news-ink. No. 150,128; Nov. 22.

Austilang Company, Philadelphia, Pa. Medicinal foot-powder. No. 150,649; Nov. 22.

Badger Manufacturing Corporation, Milwaukee, Wis. Bumpers, tire and luggage carriers, creepers, &c. No. 146,966; Nov. 22.

Baker Extract Company, Springfield, Mass. Printed booklet of recipes. No. 143,314; Nov. 22.

Baker, J. Harve, Portales, N. Mex. Oils for softening and preserving leather. No. 149,211; Nov. 22.

Berndorfer Metallwarenfabrik Arthur Krupp A. G., Berndorf, Lower Austria. Refined-nickel-silver articles electroplated with gold and silver. No. 141,412; Nov. 22.

Bing, Lester, Philadelphia, Pa. Bloomers, vests, union-suits. No. 146,684; Nov. 22.

Birch-Field, Charles A., New York, N. Y. Candy. No. 137,258; Nov. 22.

Blanding & Blanding, Inc., Providence, R. I. Remedy valuable in the treatment of chlorosis, anemia, &c. No. 150,727; Nov. 22.

Blatz, Val., Jr., Candy Co., Milwaukee, Wis. Candy. No. 151,824; Nov. 22.

Bleadon-Dun Company, Chicago, Ill. Electromedical apparatus. No. 148,056; Nov. 22.

Brach, L. S., Mfg. Co. Inc., Newark, N. J. Electric heating and soldering irons, lightning-arresters. No. 119,408; Nov. 22.

British Alizarine Company Limited, The, London, England. Artificial alizarin used in dyeing and printing of textile fabrics. No. 152,061; Nov. 22.

Brockton Rand Company, Montello, Brockton, Mass. Welting. No. 147,702; Nov. 22.

Bromley, John, & Sons, Inc., Philadelphia, Pa. Woven rugs and carpets. No. 153,496; Nov. 22.

Brooklyn Tire Brick Works, Inc., Brooklyn, N. Y. Building-cement. No. 149,886; Nov. 22.

Brown Shoe Company, Inc., St. Louis, Mo. Shoes for women made of leather. No. 147,816; Nov. 22.

Brude, Arthur C., Virginia, Minn. Game. No. 132,718; Nov. 22.

Bruno Co. & Son, Inc., New York, N. Y. Violin-strings. No. 151,140; Nov. 22.

Bunny Products Company, Port Huron, Mich. Cleaning composition for shoes, gloves, &c. No. 151,665; Nov. 22.

Burnham, Mary, Chicago, Ill. Hair-restorer. No. 146,792; Nov. 22.

Cameron, Wm., & Co. Inc., Waco, Tex. Sash, doors, blinds, &c. No. 144,498; Nov. 22.

Camp, Beauford R., San Francisco, Calif. Candy. No. 152,412; Nov. 22.

Celite Products Company, Los Angeles, Calif., and New York, N. Y. Material for bleaching and decolorizing. No. 149,320; Nov. 22.

Clausen Zoller Company, The, St. Louis, Mo. Blood and nerve tonic. No. 149,540; Nov. 22.

Climax Molybdenum Company, Wilmington, Del., and New York, N. Y. Calcium molybdate. No. 149,891; Nov. 22.

Colgate & Company, Jersey City, N. J. Soaps. No. 152,066; Nov. 22.

Colletti, Angelo, Chicago, Ill. Non-alcoholic beverage. No. 146,204; Nov. 22.

Congress Cigar Co., Philadelphia, Pa. Cigars. No. 143,206; Nov. 22.

Conley Foil Company, The, New York, N. Y. Decoration made of tin-foil suitable for ornamentation of Christmas trees. No. 150,509; Nov. 22.

Coolidge Piano Company, Boston, Mass. Pianos. Nos. 153,538–9; Nov. 22.

Corona Typewriter Company, Inc., Groton, N. Y. Magazines published monthly. No. 153,129; Nov. 22.

Crook, Wilson W., Dallas, Tex. Periodical publication. No. 133,570; Nov. 22.

Crystal Soap & Chemical Co., Philadelphia, Pa. Liquid, &c., soaps, soap cakes and flakes. No. 151,752; Nov. 22.

Danjean, Sidney J., Franklin, La. Preparation for use in cleaning the hands. No. 153,451; Nov. 22.

Daving, Joseph, New York, N. Y. Watches. No. 148,981; Nov. 22.

Dessauer & Engel, Chicago, Ill. Men's hosiery, shirts, underwear, &c. No. 148,583; Nov. 22.

Devilla, Cathleen, Providence, R. I. Stove-polish. No. 150,662; Nov. 22.

Diamond Bottling Corporation, The, Waterbury, Conn. Non-alcoholic beverages and syrups for making same. No. 153,797; Nov. 22.

Dolan, Timothy, Milwaukee, Wis. Leak-stopping compound for automobile-radiators. No. 151,983; Nov. 22.

Duplan Silk Corporation, New York, N. Y. Broad-silk piece goods. No. 153,502; Nov. 22.

Duplex Transmission Bands, Inc., San Francisco, Calif. Automobile transmission-bands. No. 151,910; Nov. 22.

Eastern Tube & Tool Company, Inc., Brooklyn, N. Y. Flexible woven tubing for electrical wire-conduits. No. 140,025; Nov. 22.

Eckstein, Joseph, Inc., New York, N. Y. Ladies', misses', and children's suits. No. 148,537; Nov. 22.

Edco Oil Co. Registered, Philadelphia, Pa. Lubricating oils and greases. No. 147,007; Nov. 22.

Embalmers' Supply Co., The, West Port, Conn. Hand fire-extinguishers. No. 149,693; Nov. 22.

Empire Notion Co., New York, N. Y. Hair-nets. No. 153,718; Nov. 22.

Equipment Corporation of America, Wilmington, Del., and Chicago, Ill. Motor-drawn tractor-trucks. No. 146,819; Nov. 22.

Estasi Perfumery Co., Inc., New York, N. Y. Perfume, toilet-water, sachet, &c. No. 139,792; Nov. 22.

Federal Cedar Mill Co. Ltd., Vancouver, British Columbia, Canada. Lumber and shingles. No. 147,609; Nov. 22.

Federal Rubber Company, The, Cudahy, Wis. Vehicle-tires, retinera, repair-patches, &c. No. 146,884; Nov. 22.

Federal Rubber Company, The, Cudahy, Wis. Vehicle-tires, packing, inner tubes, &c. No. 146,891; Nov. 22.

Federal Rubber Company, The, Cudahy, Wis. Vehicle-tires, inside and outside tire sleeves, &c. No. 146,898; Nov. 22.

Finnish Cellulose Union, Helsingfors, Finland. Wood-pulp. No. 145,745; Nov. 22.

Forsbacka Jernverks Aktiebolag, Forsbacka, Sweden. Iron and steel. No. 149,180; Nov. 22.

Frankel Armin A., Philadelphia, Pa. Ladies' three-piece suits. No. 148,324; Nov. 22.

Gladly Hair Net Company, Inc., Wilmington, Del., and New York, N. Y. Hair-nets. Nos. 153,597–8; Nov. 22.

Glemby's, S., Sons Co., Inc., New York, N. Y. Hair-nets. No. 153,136; Nov. 22.

Glorians Silk Mills, Inc., Jersey City, N. J. Hosiery, underwear, fabric gloves. No. 145,161; Nov. 22.

Goshen Sash and Door Company, Goshen, Ind. Sash, doors, mill and cabinet work. No. 146,312; Nov. 22.

Gould Manufacturing Company. (See Richards Manufacturing Company, assignor.)

Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Olive-oil. No. 151,569; Nov. 22.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Dried dates and figs. No. 151,570; Nov. 22.

Greenberg, Earl N., Minneapolis, Minn. Skin-lotion. No. 152,283; Nov. 22.

Groover-Stewart Drug Company, The, Jacksonville, Fla. Insecticides for Zion, &c. No. 151,066; Nov. 22.

Haddields Ltd., Sheffield, England. Knives, razors, scissors, &c. No. 138,776; Nov. 22.

Haegelin Reecse Co., Santa Rosa, Calif. Pickles, vinegar, fruit jellies and preserves, &c. No. 152,276; Nov. 22.

Hairy Peruvian Alfalfa Seed Growers Association, Yuma, Ariz. Alfalfa-seed. No. 151,631; Nov. 22.

Hall Manufacturing Co., Chicago, Ill. Fiber needles for phonographs. No. 145,017; Nov. 22.

Hansen's, Chr., Laboratory, Inc., Little Falls, N. Y. Food-colors for desserts, candies, cakes, &c. No. 141,546; Nov. 22.

Hardright Company, The, Belleville, N. J. Lather-brushes. No. 140,890; Nov. 22.

Hoeder, Harry, Candy Co., San Francisco, Calif. Candy. No. 151,331; Nov. 22.

I. X. L. Furniture Company, Goshen, Ind. Kitchen cabinets and tables. No. 141,063; Nov. 22.

Indiana Piston Ring Company, The, Hagerstown, Ind. Engine piston-rings. No. 150,013; Nov. 22.

Ingram, Walter M., Baltimore, Md. Air-pumps. No. 149,403; Nov. 22.

Insulite Chemical Company, Aurora, Ill. Plastic mastic material. No. 151,271; Nov. 22.

International Motor Company, New York, N. Y. Motor-trucks. No. 152,959; Nov. 22.

International Salt Co. of New York, New York, N. Y. Salt. No. 151,580; Nov. 22.

Irwin Paper Company, Quincy, Ill. Asphalt roofing and shingles, sheathing-paper, and felt. No. 148,228; Nov. 22.

Jamestown Metal Desk Company, Jamestown, N. Y. Sheet-metal desks and office-tables. No. 147,201; Nov. 22.

Jergens, Andrew, Company, The, Cincinnati, Ohio. Face and talcum powders, perfume. No. 152,168; Nov. 22.

Jordan Marsh Company, Boston, Mass. Ink-eradicator. No. 151,994; Nov. 22.

Kapo Manufacturing Company, (now by change of name Kapo Manufacturing Corporation), assignees to Kapo Manufacturing Company, Boston, Mass. Annual catalogues. No. 119,906; Nov. 22.

Kapo Manufacturing Company, (now by change of name Kapo Manufacturing Corporation), assignees to Kapo Manufacturing Company, Boston, Mass. Knitted piece goods of wool, worsted, and cotton. No. 120,489; Nov. 22.

Kasser, Herman, Philadelphia, Pa. Malt extract. No. 153,606; Nov. 22.

Kay, Henry, New York, N. Y. Mouth-wash. Nos. 152,171–2; Nov. 22.

Kearney, George F., Detroit, Mich. Metal-polish. No. 153,459; Nov. 22.

Kentucky Tire Pump Co., Madisonville, Ky. Tire-pumps, grease-guns, &c. No. 146,850; Nov. 22.

Kerbel, Max, Brooklyn, N. Y. Tooth-paste. No. 148,890; Nov. 22.

Keystone Diller Company, Beaver Falls, Pa. Well-drilling machines, steam-engines, sand-pumps, &c. No. 135,856; Nov. 22.

King, Mrs. A. R., Inc., Philadelphia, Pa. Leather, rubber, and canvas shoes. No. 125,089; Nov. 22.

Knight, R. E., Atlanta, Ga. Antiseptic healing powder. No. 152,180; Nov. 22.

Knights of Columbus, New Haven, Conn. Monthly magazine. No. 151,514; Nov. 22.

Kops Bros., New York, N. Y. Corsets, brassières, corset-covers, and waists. No. 148,224; Nov. 22.

Lam-Té Manufacturing Co., Oklahoma, Okla. Liquid face powder. No. 151,052; Nov. 22.

Lange, Theodore L., Chicago, Ill. Non-alcoholic beverage and syrup for making same. No. 153,464; Nov. 22.

Lansdale Knitting Company, Lansdale, Pa. Hosiery. No. 147,626; Nov. 22.

Lichtenstein, Annie, New York, N. Y. Hair-combs. No. 138,322; Nov. 22.

Lind Shoe and Slipper Co., Worcester, Mass. Felt shoes and slippers. No. 148,446; Nov. 22.

Liquid Carbonic Company, The, Chicago, Ill. Carbonic-acid gas. No. 151,053; Nov. 22.

Los Angeles Soap Co., Los Angeles, Calif. Washing-machine. No. 153,463; Nov. 22.

Luke, George A., Winthrop, Mass. Metal-polish. No. 153,005; Nov. 22.

Lyle, Charles, Memphis, Tenn. Kidney and liver medicine. No. 152,175; Nov. 22.

Lyndon Chemical Company, The, Dayton, Ohio. Ointment for aches, pains, boils, colds, &c. No. 151,953; Nov. 22.

McDougall & Yalding, Ltd., Yalding, Kent, England. Fungicides, insecticides, &c., for destroying life deleterious to plants, trees, fruits, &c. No. 149,465; Nov. 22.

McDougall & Yalding, Ltd., Yalding, Kent, England. Fungicides, insecticides, &c., for destroying life deleterious to plants, trees, fruits, &c. No. 149,467; Nov. 22.

McElroy, Henry J., Los Angeles, Calif. Powder for cleaning drain-pipes. No. 152,020; Nov. 22.

McRonkey & Co., San Francisco, Calif. Mattresses. No. 152,430; Nov. 22.

Ma-Da-Ho Drug Co., Cincinnati, Ohio. Vanishing cream. No. 150,551; Nov. 22.

Macaulay, John, Detroit, Mich. Hop barley malt sugar syrup for the manufacture of a beverage. No. 151,827; Nov. 22.

Manhattan Briar Pipe Company, New York and Brooklyn, N. Y. Pipes for smoking. No. 152,133; Nov. 22.

Manna Products Co., Minneapolis, Minn. Soap. No. 153,311; Nov. 22.

Marks, Sidney S., Brooklyn, N. Y. Remedy for dandruff. No. 151,838; Nov. 22.

Marston-Greening Co., Inc., Los Angeles, Calif. Fountain-syrups, fruit punch, &c. No. 153,821; Nov. 22.

Maxall Chemical Company, Dallas, Tex. Hair tonics and dressings, toilet water, bay-rum. No. 146,722; Nov. 22.

Metcalf, Louie T., Greenville, Ala. Union working-garments. No. 145,577; Nov. 22.

Metropolitan Church Association, Chicago, Ill. Weekly publications. No. 147,791; Nov. 22.

Meyer, Wm. Co., Chicago, Ill. X-ray tables and stands. No. 139,591; Nov. 22.

Middleby, Jos., Jr. Inc., Boston, Mass. Marshmallow topping. No. 152,339; Nov. 22.

Migel, J. A., Inc., New York, N. Y. Broad silks. Nos. 153,673–5; Nov. 22.

Miller Rubber Company, The, Akron, Ohio. Water bottles and bags, fountain-syringes, &c. No. 142,635; Nov. 22.

Mirand Polish Company, Pittsburgh, Pa. Metal-polish. No. 153,466; Nov. 22.

Montague, Carroll H., Richmond, Va. Automobile electric lamps. No. 149,197; Nov. 22.

Moore, Edward J., Sons, Inc., Long Island City, N. Y. Antiseptic ointment for piles, scalds, chafing, &c. No. 152,132; Nov. 22.

Morrow, J. Thomas, Dodge City, Kans. Gasolene, kerosene, distillates, &c. No. 150,457; Nov. 22.

Munson Manufacturing Company, The, Chicago, Ill. Paper straws. No. 146,921; Nov. 22.

Murphy, P. H., Company, New Kensington, Pa. Railroad-car metal roofs and parts of same. Nos. 152,025–6; Nov. 22.

Nevins, Thomas J., St. Louis, Mo. Automobile-polish. No. 139,846; Nov. 22.

New Process Multi-Castings Company. (See Wood, John R., assignor.)

New York Canners, Inc., Rochester, N. Y. Canned fruits and vegetables, fruit jams and preserves. No. 151,466; Nov. 22.

New York Canners, Inc., Rochester, N. Y. Canned fruits and vegetables, fruit jams. No. 151,467; Nov. 22.

New York Canners, Inc., Rochester, N. Y. Canned fruits and vegetables. Nos. 151,469–70; Nov. 22.

New York Recording Laboratories, The, Port Washington, Wis. Phonographs and phonograph-records, record-albums, &c. No. 152,439; Nov. 22.

Oettinger Lumber Company, Greensboro, N. C. Dressed lumber, shingles, wall-board, &c. No. 151,061; Nov. 22.

Oxley, Alfred V., Southington, Conn. Shoe-dressing. No. 153,470; Nov. 22.

Package Confectionery Company, Boston, Mass. Candy. No. 151,474; Nov. 22.

Paramount Knitting Company, Chicago, Ill. Hosiery. No. 147,458; Nov. 22.

Paramount Knitting Company, Chicago, Ill. Hosiery. No. 147,465; Nov. 22.

Penn Rivet Corporation, Philadelphia, Pa. Hair-nets. No. 139,595; Nov. 22.

Perfection Products Co., New York, N. Y. Malt-syrup for food purposes. No. 151,592; Nov. 22.

Perkins, B. F., & Son, Inc., Holyoke, Mass. Electric motor-driven fans. No. 151,476; Nov. 22.

Pohlson, Carl V., Pawtucket, R. I. Chemical compounds for coloring flames. No. 151,847; Nov. 22.

Polifis, John, Chicago, Ill. Preparation for alleviation of skin-poisoning, open wounds, &c. No. 152,090; Nov. 22.

Porcelain Insulator Corporation, The, Lima, N. Y. Electric insulators. No. 150,766; Nov. 22.

Preston Chemical Co. Inc., Brooklyn, N. Y. Pharmaceutical preparation. No. 147,256; Nov. 22.

Price and Teeple Piano Company, Chicago, Ill. Pianos and player-pianos. No. 153,620; Nov. 22.

Propp, M., Co., The, New York, N. Y. Christmas-tree outfits. No. 150,879; Nov. 22.

Quaker City Morocco Co., Philadelphia, Pa. Kid and morocco leather. No. 152,518; Nov. 22.

Quinto, Cohen & Levin, Inc., New York, N. Y. Men's and boys' outer clothing. No. 147,683; Nov. 22.

Ray-Di-Co., Chicago, Ill. Electric motors, generators, and motor-generator units. No. 150,570; Nov. 22.

Reins & Meins, Cincinnati, Ohio. Hosiery. No. 143,405; Nov. 22.

Renaud, Alice E., New York, N. Y. Hair-tonic. No. 148,091; Nov. 22.

Rhodes, James H., & Company, Chicago, Ill. House organ published every two months. No. 150,114; Nov. 22.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Richards Manufacturing Company, The, Marietta, Ohio, assignor, by mesne assignments, to Gould Manufacturing Company, Oshkosh, Wis. Wheeled riding toys. No. 119,980; Nov. 22.

Rohm & Haas Company, Philadelphia, Pa. Chemicals used in printing on indigo and vat dyes. No. 151,969; Nov. 22.

Roloff, Georgia G., San Francisco, Calif. Non-massage liquid mask. No. 152,276; Nov. 22.

Rosenberg & Chatillon, New York, N. Y. Ladies' silk underwear. No. 148,260; Nov. 22.

Rosenthal, Fleischer & Cie., Güppingen, Germany. Corsets, corset-covers, bodices, &c. No. 120,118; Nov. 22.

Rossi Laboratories, The, Philadelphia, Pa. Remedy for amenorrhea, leucorrhea, &c. No. 152,247; Nov. 22.

Rutland Fire Clay Co., Rutland, Vt. Plastic stove-lining. No. 150,769; Nov. 22.

Salembier & Clay, Inc., New York, N. Y. Crêpe de chine in the piece. No. 141,883; Nov. 22.

Samstag & Hilder Bros. Inc., New York, N. Y. Hair-nets. No. 152,908; Nov. 22.

Samstag & Hilder Bros. Inc., New York, N. Y. Women's and children's elastic garters. No. 147,688; Nov. 22.

Sanilesene Chemical Co., The, Akron, Ohio. Cleaning preparation. No. 150,784; Nov. 22.

Santa Clara Valley Canning Co., San Jose, Calif. Canned fruits and vegetables. No. 152,382; Nov. 22.

Savem Economy Products Co., Boston and East Boston, Mass. Compound for the treatment of fabrics after washing. No. 152,143; Nov. 22.

Schellberg, O. Bote, New York, N. Y. Laxatives. No. 151,962; Nov. 22.

Schiller, S., New York, N. Y. Women's, men's, and children's hats. No. 147,473; Nov. 22.

Schwartz, George M., Columbus, Ohio. Showcases and store furniture. No. 151,226; Nov. 22.

Simon, J. & Cie., Paris and Lyon, France. Face-cream. No. 150,771; Nov. 22.

Simon, J. & Cie, Paris and Lyon, France. Perfumes, face and toilet powders. No. 150,773; Nov. 22.

Small, Marvin S., Brooklyn, N. Y. Indigestion-corrective. No. 149,299; Nov. 22.

Smith, A. L., Iron Works, The, Chelsea, Mass. Columns consisting of a metal shell with concrete or like filling. No. 151,483; Nov. 22.

Société Chimique des Usines du Rhone, Paris, France. Photographic developers. No. 147,738; Nov. 22.

Societeit voor Chemische Industrie "Katwijk," Katwijk aan Zee, Netherlands. Theobromin sodium acetate. No. 147,742; Nov. 22.

Sohon System, New York, N. Y. Children's play-dresses. No. 144,109; Nov. 22.

Stearns & Foster Company, The, Lockland, Ohio. Cotton-batting. No. 151,408; Nov. 22.

Stearns & Foster Company, The, Lockland, Ohio. Cotton-batting. No. 151,410; Nov. 22.

Stearns & Foster Company, The, Lockland, Ohio. Cotton-batting. Nos. 151,412–5; Nov. 22.

Stearns & Foster Company, The, Lockland, Ohio. Cotton-batting. Nos. 151,422–3; Nov. 22.

Stedman, Arthur W., Inc., New York, N. Y. Post-card. No. 143,842; Nov. 22.

Step-On-It Manufacturing Company, Leicester, Mass. Composition used to remove carbon from cylinders and gas-passages of internal-combustion engines. No. 151,960; Nov. 22.

Sun Company, Philadelphia, Pa. Gasolene, cutting-oils, kerosene, &c. No. 142,378; Nov. 22.

Sunbeam Electric Manufacturing Co., Evansville, Ind. Electric batteries. No. 151,492; Nov. 22.

Teague and Filmer, Portland, Oreg. Hair-tonics. No. 149,252; Nov. 22.

Times Square Auto Supply Co., Inc., New York, N. Y. Automobile-tires, inner tubes for tires, rubbers, and blow-out patches. No. 126,919; Nov. 22.

Townsend Wholesale Grocery Company, Maryville, Mo. Coffee. No. 152,236; Nov. 22.

Tribble, Walter L., Tacoma, Wash. Malt-syrup. No. 152,670; Nov. 22.

Turner, Robert V., Montgomery, Ala. Salve for colds, catarrh, croup, cuts, &c. No. 149,251; Nov. 22.

Union Explosives Co., Clarksburg, W. Va. Dynamite and permissible explosives. No. 137,699; Nov. 22.

United States Rubber Company, New York, N. Y. Insulated wire cable. No. 151,243; Nov. 22.

Upp, Clark W., Oberlin, Ohio. Hair-eradicator. No. 152,145; Nov. 22.

Vawter and Vawter, Los Angeles, Calif. Pharmaceutical preparations for rheumatism, sciatica, gout, &c. No. 152,650; Nov. 22.

Vencero Lac Company, New York, N. Y. Polish for furniture, automobiles, &c. No. 137,750; Nov. 22.

Vogel, S., Sons, Hartford, Conn. Canned fruits and vegetables, canned and shell fish. No. 149,091; Nov. 22.

Waterous, Berlin & Snyder Company, New York, N. Y. Sheet-music and musical compositions. No. 155,118; Nov. 22.

Watkins, Verna O., Atlanta, Ga. Educational-game board. No. 151,694; Nov. 22.

Wausau Abrasives Company, Wausau, Wis. Sandpaper. No. 153,706; Nov. 22.

Weinberg, Florence, New York, N. Y. Ladies' brassières. No. 153,966; Nov. 22.

Werle et Compagnie, Reims, France. Champagne-wines. No. 148,004; Nov. 22.

Werle et Compagnie, Reims, France. Champagne-wines. No. 148,005; Nov. 22.

Whelan, Robert B., New York, N. Y. Phonograph-record disks. No. 149,781; Nov. 22.

Wheeling Machine Products Company, Wheeling, W. Va. Screws and bolts. No. 150,492. Nov. 22.

Whitman, Clarence, & Son, Inc., Katonah and New York, N. Y. Cotton sheets and pillow-cases. No. 153,751; Nov. 22.

Whitrow, Floyd G., Grand Rapids, Mich. Automobile parts and accessories. No. 141,090; Nov. 22.

Wilkinson Bros. & Co. Inc., New York, N. Y. Cigarette-paper and cigarette-tubes made of paper. No. 150,419; Nov. 22.

Wilkinson Bros. & Co. Inc., New York, N. Y. Cigarette-paper and cigarette-tubes made of paper. No. 150,422; Nov. 22.

Williams, William G., Elgin, Ill. Adjustable tables for use by doctors, &c., and parts of such tables. No. 150,576; Nov. 22.

Winfield Barnes Company, The, Philadelphia, Pa. Automobiles. No. 135,455; Nov. 22.

Winship, Bolt & Co., Wakefield, Mass., and New York, N. Y. Underwear, bathing-suits, shawls, &c. No. 146,472; Nov. 22.

Wood, John B., Irvington, N. J., assignor to New Process Multi-Castings Company, Newark, N. J. Molds for shaping molten metal. No. 139,690; Nov. 22.

Wright, John, & Eagle Range, Ltd., Birmingham, England. Gas-heated metallurgical furnaces. No. 117,760; Nov. 22.

Wright, John, & Eagle Range, Ltd., Birmingham, England. Radiants or refractory heating elements for gas-pipes. Nos. 150,645–6; Nov. 22.

Waerts, O. W., Co., New York, N. Y. Grand, upright, player, and electrically-operated pianos. Nos. 150,750–4; Nov. 22.

Wyo-Col Chemical Company, Denver, Colo. Medicine for gonorrhea. No. 152,195; Nov. 22.

Yellow Duck Pub. Co., New York, N. Y. Magazines issued from time to time. No. 141,640; Nov. 22.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 22D DAY OF NOVEMBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Acid esters of tribromotertiary butyl alcohol, Benzoic-. T. B. Aldrich. No. 1,397,913; Nov. 22.

Adding-machine. E. L. Muller. No. 1,397,774; Nov. 22.

Adjustable bit. T. G. Doyle. No. 1,398,070; Nov. 22.

Agricultural implement. C. Owens. No. 1,397,599; Nov. 22.

Agricultural machine. J. G. Northcutt and M. Crawford. No. 1,398,198; Nov. 22.

Air-service station for automobiles. J. B. Beck. No. 1,397,916; Nov. 22.

Airplane-rib construction. J. W. Rapp and J. Vanorio. No. 1,397,707; Nov. 22.

Alarm: *See*—
Burglar-alarm.

Ammonium-chlorid liquors from the ammonia-soda process, Working up residuary. T. Lichtenhahn. No. 1,398,135; Nov. 22.

Amusement apparatus. W. H. Balcke and W. A. Ready. No. 1,397,832; Nov. 22.

Amusement device. M. Unger. No. 1,397,939; Nov. 22.

Amusement device. M. Unger, B. S. Veasie, and J. W. Zarro. No. 1,397,938; Nov. 22.

Angle-wrench. C. T. Root. 1,398,116; Nov. 22.

Annealing and heating systems, Electrode for. W. Hurlburt. No. 1,398,192; Nov. 22.

Antirattling device. B. G. McCoskrie. No. 1,398,105; Nov. 22.

Assorting machine. B. L. and E. B. Gifford. No. 1,397,955; Nov. 22.

Audion-amplifier, Selective. L. de Forest. No. 1,397,575; Nov. 22.

Auto-body. W. Linquist. No. 1,398,102; Nov. 22.

Automobile-buffers, Attaching device for. W. G. Cox. No. 1,398,089; Nov. 22.

Automobile-bumper. F. R. Procunier. No. 1,397,741; Nov. 22.

Automobile cooling systems, Radiator for. J. Comlon. No. 1,398,176; Nov. 22.

Automobile flow-line protector. A. W. Gibbons. No. 1,397,630; Nov. 22.

Automobile-heater. L. C. Milner. No. 1,397,648; Nov. 22.

Automobile-hood clip. F. W. Franklin. No. 1,397,759; Nov. 22.

Automobile-lifting device. P. C. Gibson. No. 1,398,186; Nov. 22.

Automobile-lock. T. J. Kehoe. No. 1,397,524; Nov. 22.

Automobile-lock. C. G. Trosien. No. 1,397,564; Nov. 22.

Automobile-signal. C. Durning. No. 1,397,947; Nov. 22.

Automobile-support. A. E. Cooney. No. 1,398,086; Nov. 22.

Automobile-wheel rim and tire. R. Wright. No. 1,397,996; Nov. 22.

Automobiles, Air-pumps for. W. A. Wilson. No. 1,397,829; Nov. 22.

Automobiles, Attachment for. W. F. Pilmore. No. 1,397,879; Nov. 22.

Automobiles, Direction-indicator for. W. H. Barriere. No. 1,397,672; Nov. 22.

Automobiles, Direction-indicator for. J. Drotar. No. 1,397,807; Nov. 22.

Automobiles, Direction-indicator for. M. E. Wilson. No. 1,397,666; Nov. 22.

Automobiles, Extension-light for. T. A. E. Errington. No. 1,398,011; Nov. 22.

Automobiles, Fender attachment for. P. J. Quartana. No. 1,397,903; Nov. 22.

Automobiles, Safety foot-throttle for. E. J. Currier. No. 1,397,796; Nov. 22.

Automobiles, Spring-bumper for. W. G. Cox. No. 1,398,177; Nov. 22.

Automobiles, Trespass-sign for. M. W. Marsden. No. 1,397,770; Nov. 22.

Bag-holder. J. B. O'Brien. No. 1,397,898; Nov. 22.

Bag-tops, Making. S. G. Mandalian. No. 1,397,874; Nov. 22.

Banding-board, Adjustable. J. F. Kennedy. No. 1,397,763; Nov. 22.

Battery. D. H. Wilson. No. 1,398,213; Nov. 22.

Bearing. P. S. Erikson. No. 1,397,948; Nov. 22.

Bearing, Antifriction. R. W. Sellen. (Reissue.) No. 15,218; Nov. 22.

Bearing, Suspension-. R. A. McCune. No. 1,398,138; Nov. 22.

Bed. W. H. Muir. No. 1,397,773; Nov. 22.

Bed, Folding davenport. O. A. Honsinger. No. 1,397,962; Nov. 22.

Bed-spring, Convertible. H. A. Schmidt. No. 1,398,203; Nov. 22.

Bell-ringer resistance unit. J. Chodrow. No. 1,397,886; Nov. 22.

Belt connection. W. Wenderhold and C. Uebelmesser. No. 1,397,750; Nov. 22.

Bin-gate. R. H. Stevens. No. 1,398,047; Nov. 22.

Bin structure. E. J. Walker, Jr. No. 1,397,887; Nov. 22.

Binder attachment. F. M. Peden. No. 1,397,521; Nov. 22.

Binder, Loose-leaf. J. Engelland. No. 1,397,577; Nov. 22.

Binder, Loose-leaf. F. K. Mero. No. 1,398,034; Nov. 22.

Binder, Loose-leaf. S. R. Wycherley. Nos. 1,398,214–15; Nov. 22.

Bituminous emulsion. C. S. Reeve. No. 1,398,201; Nov. 22.

Blood-coagulation medium. C. A. Mills. No. 1,397,804; Nov. 22.

Board: *See*—
Banding-board.

Bobbin-holder. A. H. Fleck. No. 1,397,927; Nov. 22.

Book-cover. W. M. Rheads. No. 1,397,605; Nov. 22.

Boring-tool holder. J. C. Stanton. No. 1,397,786; Nov. 22.

Bottle-capping apparatus. C. G. Belden. No. 1,397,617; Nov. 22.

Box: *See*—
Chick-box. Gear-box.
Cigar-box.

Box. W. W. Reid. No. 1,398,154; Nov. 22.

Box-printing machine. M. A. Schmidt. No. 1,397,881; Nov. 22.

Boxes, Machine for pressing necks in. C. H. Nitsch. No. 1,397,597; Nov. 22.

Brake. J. M. Lansden. No. 1,397,590; Nov. 22.

Brake-beams, Safety-guard, release, and support for. A. W. Hawkins. No. 1,397,581; Nov. 22.

Brake-beams, Third-point support for. A. W. Hawkins. No. 1,397,580; Nov. 22.

Brake-holding device. R. L. James. No. 1,397,886; Nov. 22.

Brake-shoe, Adjustable internal. H. W. Muhleisen and C. Lund. No. 1,397,772; Nov. 22.

Brick, Paving-. F. B. Dunn. No. 1,397,505; Nov. 22.

Broom. W. B. Wansor. No. 1,398,052; Nov. 22.

Broom-holder. W. H. Collins. No. 1,398,127; Nov. 22.

Broom, Whisk-. G. K. Van Voast. No. 1,398,210; Nov. 22.

Brush. C. E. Jewett and F. Fitzgerald. No. 1,397,586; Nov. 22.

Brush-back. W. Morrison. No. 1,398,035; Nov. 22.

Brush, Bath-. H. E. Bailey. No. 1,397,611; Nov. 22.

Brush-handle connection. J. F. Palmer. No. 1,397,899; Nov. 22.

Brush-hanger. C. E. Hecht. No. 1,397,807; Nov. 22.

Bucket, Reclaiming and conveying. J. F. Godfrey. No. 1,397,609; Nov. 22.

Buckle, Belt-. S. Buchsbaum. No. 1,397,673; Nov. 22.

Building construction. W. J. Pedersen. No. 1,397,950; Nov. 22.

Burglar-alarm. F. E. Sparks. No. 1,398,160; Nov. 22.

Burner: *See*—
Gas-burner. Oil-burner.

Butt and set gage. A. Zetterman. No. 1,397,569; Nov. 22.

Butter substitutes, edible fats, and the like, Manufacture of. W. Clayton and G. Nodder. No. 1,398,003; Nov. 22.

Button. S. Gulick. No. 1,397,957; Nov. 22.

Button-feeding instrumentality for button-setting machines. J. Kelly. No. 1,398,026; Nov. 22.

Button-setting machine. J. Kelly. No. 1,398,027; Nov. 22.

Cabinet-maker's clamp. S. A. Holmquist. No. 1,397,961; Nov. 22.

Cables, Apparatus for severing. C. Tosselsa. No. 1,397,911; Nov. 22.

Cake-machine. W. Peters. No. 1,397,981; Nov. 22.

Cake receiving, separating, dividing, and centralising machine, Automatically-operating. P. Rasmussen. No. 1,397,655; Nov. 22.

Cake receiving and assembling machine, Multiple-guide-row stacker-. P. Rasmussen. No. 1,397,656; Nov. 22.

Cake-stacking machines, Transversely-adjustable chute for. P. Rasmussen. No. 1,397,657; Nov. 22.

Calculating device. T. J. Dalsell. No. 1,397,944; Nov. 22.

Calculating device. H. Muller. No. 1,397,596; Nov. 22.

Calculating-machine, Algebraic-total. H. Gaither. No. 1,396,074; Nov. 22.
Calculator. H. Gaither. No. 1,396,072; Nov. 22.
Camera and projector, Camera lens or cabinet for combined moving-picture. F. Miedtank. No. 1,397,317; Nov. 22.
Camera, Shield or guide-bar for photographic. R. P. Hart. No. 1,397,451; Nov. 22.
Can-cutting machine. A. E. Thomas. No. 1,397,530; Nov. 22.
Can-opener. Q. D. Hamilton. No. 1,397,377; Nov. 22.
Capping machine, Jar-. J. J. Bauer. No. 1,396,602; Nov. 22.
Car-check holder. E. M. Mahaney. No. 1,397,600; Nov. 22.
Car construction, Convertible. H. S. Hart. No. 1,397,466; Nov. 22.
Car construction, Convertible-. J. O. Nesbitt. No. 1,397,382; Nov. 22.
Car construction, Tank-. A. Campbell. No. 1,397,676; Nov. 22.
Car-coupling. J. Retz. No. 1,397,731; Nov. 22.
Car-door mounting. G. H. Hooper. No. 1,397,811; Nov. 22.
Car-fastener, Lock and seal for. H. H. Duncan and C. C. Wilkinson. No. 1,396,424; Nov. 22.
Car-fastener, Rotary. G. H. A. M., and W. H. Simpson. No. 1,397,385; Nov. 22.
Car, Refrigerator-. E. Jarvet and E. de Stuers. No. 1,397,668; Nov. 22.
Car-wheel bracket. J. P. Thompson. No. 1,397,535; Nov. 22.
Cars, Door-fastener for railway-. H. Peters. No. 1,397,594; Nov. 22.
Cars, Seal recording-mechanism for railway box-. R. W. Barnett. No. 1,397,674; Nov. 22.
Cars, Safety device for. T. M. Wallis. No. 1,396,130; Nov. 22.
Cars, Upper buffer for vestibule-. P. Kass. No. 1,397,566; Nov. 22.
Carburetor and draft-gage for soda-water. C. A. Geddes. No. 1,397,520; Nov. 22.
Carburetor. J. B. Alger. No. 1,397,712; Nov. 22.
Carburetor. C. P. Hall. No. 1,397,549; Nov. 22.
Carburetor. H. Cumyn. No. 1,396,607; Nov. 22.
Carrier: *See*—
Egg-carrier. Luggage-carrier.
Cartridge-reloading machine. W. R. McGee. No. 1,396,100; Nov. 22.
Casting-machine, Locking mechanism for rotary. A. A. Landon. No. 1,396,124; Nov. 22.
Casting, Rotary. D. E. de Lavaud. No. 1,396,608; Nov. 22.
Cattle-guard. G. H. Bishop. No. 1,397,752; Nov. 22.
Cellulose-ester solvent and resulting cellulosic composition. M. Y. Benton. No. 1,397,389; Nov. 22.
Centrifugal propeller. C. D. Brooks. No. 1,396,063; Nov. 22.
Chain: *See*—
Auto traction-chain.
Chain, Auto traction-. D. Dorbeneaux and F. S. Capron. No. 1,396,609; Nov. 22.
Chain-fastener. C. F. Hairston. No. 1,396,629; Nov. 22.
Chain-fastener. C. J. Williams. No. 1,397,509; Nov. 22.
Chemical reactions, Performing. W. O. Snelling. No. 1,397,600; Nov. 22.
Chick-box. W. C. Hiker. No. 1,397,562; Nov. 22.
Chimney-cleaner. J. B. Rork. No. 1,396,155; Nov. 22.
Chin-support. M. E. Bowman. No. 1,397,409; Nov. 22.
Chuck, Oval. A. Rebiskl, and M. Terre. No. 1,397,546; Nov. 22.
Chuck-operating mechanism. J. Faulk and S. Clebo. No. 1,396,112; Nov. 22.
Cigar-box, Metal. M. Bayuk. No. 1,396,050; Nov. 22.
Cigarette or like case and electric torch, Combined. S. A. Appell. No. 1,397,610; Nov. 22.
Cigarette-packaging machine. R. D. Smith. No. 1,397,552; Nov. 22.
Circuit-closer, Thermal. W. V. Reichard. No. 1,396,153; Nov. 22.
Clamp: *See*—
Cabinet-maker's clamp. Hose-clamp.
Clamp. A. L. Cochrane. No. 1,396,126; Nov. 22.
Clamp. M. A. Doelkner. No. 1,396,091; Nov. 22.
Clamp. A. F. Gilbert. No. 1,397,502; Nov. 22.
Clamp. J. L. Jefferies. No. 1,397,580; Nov. 22.
Cleaner: *See*—
Chimney-cleaner. Windshield-cleaner.
Cleaning implement. C. N. Allen. No. 1,396,121; Nov. 22.
Clip: *See*—
Automobile-hood clip.
Clock attachment, Alarm-. C. L. Rasmussen. No. 1,397,709; Nov. 22.
Clock, Electric-. B. A. Fessenden. No. 1,397,560; Nov. 22.
Cloth-handling device. A. Rau. No. 1,396,045; Nov. 22.
Clothes-pounder. C. Bowman. No. 1,396,061; Nov. 22.
Clothes-tongs. J. M. Fitzgraft. No. 1,397,538; Nov. 22.
Clothing, Manufacturing ladies' ready-to-wear. J. Scheffer. No. 1,396,117; Nov. 22.
Clutch-band and casing therefor. W. F. Hudson. No. 1,396,191; Nov. 22.
Clutch, Friction-. W. G. Price. No. 1,397,663; Nov. 22.
Coal-bearing water and streams, Recovering coal, held in suspension, from. C. B. Holland. No. 1,397,735; Nov. 22.
Coffee, Roasting. H. Preil. No. 1,396,115; Nov. 22.
Coke-oven-door machine. J. Kreppner. No. 1,397,726; Nov. 22.
Coking, Apparatus for [illegible]. C. Rein. No. 1,397,[illegible]; Nov. 22.
[illegible]. A. F. Gilbert. No. 1,397,631; Nov. 22.
[illegible] Forms for. J. C. Mitchell. No. [illegible]
[illegible] Constructing pedestrail. E. Van [illegible]
[illegible]. No. 1,397,[illegible]; Nov. 22.
[illegible]. No. 1,397,[illegible]; Nov. 22.
[illegible]. No. 1,397,[illegible]; Nov. 22.
[illegible] A. Blough. No. 1,397,757; Nov. 22.
[illegible]. J. V. R. Sheppard. No. 1,397,666; Nov. 22.
[illegible] Apparatus and Process for filling and closing [illegible]. W. Goodsell. No. 1,397,621; Nov. 22.
[illegible] Apparatus for treating material, Apparatus for. F. A. Gilbert. No. 1,397,630; Nov. 22.
[illegible]. J. Jr. No. 1,397,[illegible]; Nov. 22.
[illegible]. W. Cohen, Jr. No. 1,396,199; Nov. 22.
[illegible]. G. K. Leonard and E. J. Hamner. No. 1,397,[illegible]; Nov. 22.
[illegible] Electrolyte of. P. E. Middleton. No. 1,397,[illegible]; Nov. 22.
[illegible] device. G. F. Harrington and A. J. Fellowes. No. 1,397,518; Nov. 22.
Corset. A. E. Bott. No. 1,397,570; Nov. 22.
Corset-fastening apparatus for. L. C. Hilliard. No. 1,397,[illegible]; Nov. 22.
Counter and the like, V. H. Spinks. No. 1,396,161; Nov. 22.
Coupling: *See*—
Car-coupling. Pipe-coupling.
Dog-coupling.
Coupling-key. H. Lilley. No. 1,397,530; Nov. 22.
Covering, Protective. H. M. Whiteside. No. 1,396,165; Nov. 22.
Cover, Means for supplying temporary table-. W. de Matias. No. 1,397,550; Nov. 22.
Crane, Overhead. M. H. Steadman. No. 1,397,558; Nov. 22.
Crusher and pulverizer. M. F. Williams. No. 1,397,622; Nov. 22.
Culinary apparatus. D. G. Bender. No. 1,397,552; Nov. 22.
Culinary implement. H. M. Greener. No. 1,397,512; Nov. 22.
Cultivator. S. K. Dennis. No. 1,397,545; Nov. 22.
Cup: *See*—
Oil-cup. Test-cup.
Curler. K. McClaire. No. 1,397,553; Nov. 22.
Curtain-stretcher. A. P. McMahon. No. 1,397,533; Nov. 22.
Cushion. T. W. Johnson. No. 1,397,626; Nov. 22.
Cushion. F. Soder. No. 1,396,118; Nov. 22.
Cutter: *See*—
Grinding-machine cutter.
Cyanid process. A. W. Hahn. No. 1,397,624; Nov. 22.
Cyanide, Making. O. L. Barnebey. No. 1,397,613; Nov. 22.
Damper construction. T. Olinger. No. 1,396,068; Nov. 22.
Damper-regulator, Self-locking. J. W. Gable. No. 1,397,[illegible]; Nov. 22.
Davenport-bed. O. A. Hennings. No. 1,397,963; Nov. 22.
Dehorning cattle Shears. J. Meister. No. 1,397,575; Nov. 22.
Demountable wheel. H. B. Holley. No. 1,396,020; Nov. 22.
Desk-drawers and the like, Attachment for. J. H. Hetson. No. 1,396,082; Nov. 22.
Desk, Metal. S. P. Williams and A. McIntyre. No. 1,397,537; Nov. 22.
Desk-slides, Loop for. H. Rhoden. No. 1,397,782; Nov. 22.
Dewatch-holder. A. A. Lombard. No. 1,396,127; Nov. 22.
Die, Making a. A. A. McIntyre. No. 1,396,106; Nov. 22.
Digging-machine. A. Pepple. No. 1,397,543; Nov. 22.
Digging-machine, Digger-chain for ditch-. L. G. Dunlap. No. 1,397,670; Nov. 22.
Disk-washing machine. M. A. Hopkins. No. 1,396,022; Nov. 22.
Disk-washing machine. C. F. Lochow. No. 1,397,767; Nov. 22.
Disk-washing machine. W. R. Walker. No. 1,397,846; Nov. 22.
Disk-coupling, Flexible. R. J. Stobee. No. 1,396,163; Nov. 22.
Distilling apparatus, Oil-. T. J. Ryan. No. 1,397,984; Nov. 22.
Distributing material, Method and apparatus for. H. F. Smith. No. 1,397,[illegible]; Nov. 22.
Document and like filing, Binder-case for. A. M. McNeill and W. J. Abbott. No. 1,397,645; Nov. 22.
Door-check. A. J. Ehman. No. 1,396,010; Nov. 22.
Drag, Road or dirt. J. L. Allington. No. 1,397,761; Nov. 22.
Drain. S. S. Davis. No. 1,396,067; Nov. 22.
Draining-compounder, Device for. H. R. Wallace. No. 1,396,111; Nov. 22.
Drawing-board, Attachment for. C. F. Dieckmann. No. 1,396,[illegible]; Nov. 22.
Dredge. M. Stone. No. 1,396,131; Nov. 22.

Dredge-frame bushing. W. W. Swayne, jr. No. 1,396,040; Nov. 22.
Drilling and other machines, Adjustable work-carrying table for. G. F. Mertz. No. 1,397,771; Nov. 22.
Drilling-rigs, Safety-key for. H. J. Griffith. No. 1,397,664; Nov. 22.
Duplex mold. H. E. Gibson. No. 1,396,073; Nov. 22.
Dyeing-machine. H. M. Dudley. No. 1,397,660; Nov. 22.
Earthenware, Manufacturing of. C. E. Fulton. No. 1,396,014; Nov. 22.
Earthworking-machine. T. A. Prendergast. No. 1,397,653; Nov. 22.
Egg-carrier. J. B. Sipe. No. 1,396,045; Nov. 22.
Egg-carton. E. M. Odell. No. 1,397,539; Nov. 22.
Egg receptacle and carrier. E. M. Odell. No. 1,397,540; Nov. 22.
Ejector, Multiple-stage. R. N. Ehrhart. No. 1,397,924; Nov. 22.
Electric circuits, Means for detecting changes of resistance in. P. van S. Kolff. No. 1,397,641; Nov. 22.
Electric devices, Time-controlled. C. P. Lehman. No. 1,397,692; Nov. 22.
Electric heater. J. R. Bakstad. Nos. 1,392,167-8; Nov. 22.
Electric heater. E. N. Brown and M. H. Shoemberg. No. 1,396,517; Nov. 22.
Electric heater. J. Lavoie. No. 1,397,572; Nov. 22.
Electric plant, Portable. R. L. Asraad. No. 1,396,058; Nov. 22.
Electric signal. E. W. Hanaser. No. 1,397,562; Nov. 22.
Electric switch. C. R. Felton and J. A. Hand. No. 1,397,777; Nov. 22.
Electric switch. P. F. Wollenweber. No. 1,396,053; Nov. 22.
Electric systems, Control for dynamo-. A. E. Buchenberg. No. 1,396,064; Nov. 22.
Electric-wire connections, Reel for. A. L. Hite. No. 1,397,633; Nov. 22.
Electrical testing system. G. W. Kuhn. No. 1,397,975; Nov. 22.
Electrical tool. C. S. Weyandt. No. 1,397,567; Nov. 22.
Electrolytic cell. E. B. Cutten. No. 1,397,709; Nov. 23.
Electrotype material and forming same. G. U. Rose, jr. No. 1,397,785; Nov. 22.
Engine-controller. M. C. Cosgray. No. 1,397,503; Nov. 22.
Engines, &c., Valve remover and lifter for internal-combustion. L. J. McKone. No. 1,397,768; Nov. 22.
Engines, Carbureting air for internal-combustion. J. M. Schutz. No. 1,397,744; Nov. 22.
Engines, Charge-humidifying device for internal-combustion. A. S. Kincaid. No. 1,397,837; Nov. 22.
Engines, Ignition apparatus for internal-combustion. A. Dutreux. No. 1,397,861; Nov. 22.
Engines, Mixer for gas-. C. C. Brown. No. 1,396,063; Nov. 22.
Engines, Valve mechanism for internal-combustion. W. A. James. No. 1,397,585; Nov. 22.
Envelop. G. A. Sanborn. No. 1,397,830; Nov. 22.
Excavating-machine. W. K. Liggett. No. 1,396,195; Nov. 22.
Explosive. G. Weber. No. 1,397,826; Nov. 22.
Explosives, Manufacture of. T. Hawkins. No. 1,396,098; Nov. 22.
Extension-table. A. H. Stone. No. 1,397,665; Nov. 22.
Fastening for ends of laces, Special. R. A. Bibard. No. 1,397,916; Nov. 22.
Fat, Manufacture of milk-. A. F. Stevenson. No. 1,397,664; Nov. 22.
Fats, Treatment of butter-. A. F. Stevenson. No. 1,397,663; Nov. 22.
Faucets, Thermometer attachment for. A. S. Campbell. No. 1,397,720; Nov. 22.
Fertilizer and producing the same. C. L. Poynor. No. 1,396,113; Nov. 22.
Filing-system posting-tray, Loose-leaf-. H. C. Baster. No. 1,397,616; Nov. 22.
Filter. C. W. Birch. No. 1,396,205; Nov. 22.
Fire-escape. L. Kocjan. No. 1,397,640; Nov. 22.
Fire-escape. S. M. Lyle. No. 1,397,643; Nov. 22.
Firearm. B. H. Ball. No. 1,396,065; Nov. 22.
Fireproofing of textile fabrics and other porous articles. T. J. I. Craig. No. 1,397,558; Nov. 22.
Fishing-line reel. W. B. Hodges and C. F. Larsclere. No. 1,396,169; Nov. 22.
Fishing-reel. E. S. Moses. No. 1,396,197; Nov. 22.
Fishing-tackle holder. F. W. Tegner. No. 1,397,790; Nov. 22.
Flask. C. N. Coryell. Nos. 1,396,067-8; Nov. 22.
Flooring, Terrazzo. B. O. A. De Paoli. No. 1,397,678; Nov. 22.
Flue-stopper. W. R. Carroll. No. 1,397,753; Nov. 22.
Fluids in closed conduits, Measurement of the flow of. N. R. Gibson. No. 1,396,097; Nov. 22.
Flying-machine. H. G. Hooper. No. 1,397,761; Nov. 22.
Flying-machine of the helicopter type, Captive. V. Zurovec, Jr. No. 1,397,906; Nov. 22.
Food compound. E. B. Clarke. No. 1,397,723; Nov. 22.
Food products, Apparatus for heating, roasting, and cooking. H. Preil. No. 1,396,114; Nov. 22.
Forging temperature, Method and apparatus for heating long blanks to. W. B. Pelrce. No. 1,397,603; Nov. 22.
Framing and miter gage. J. H. Knight. No. 1,397,589; Nov. 22.
Fuel, Apparatus for the production of artificial. R. Bowen. No. 1,397,571; Nov. 22.
Fuel-feeding device. W. Sparks. No. 1,396,206; Nov. 22.
Fuel-feeding system. C. Pohl. No. 1,397,760; Nov. 22.
Fuel-heating device, Liquid-. C. H. Foster. No. 1,396,012; Nov. 22.
Fuel, Production of artificial. R. Bowen. No. 1,397,572; Nov. 22.
Fuel-reserve-supply system for self-propelled vehicles. F. Jardone, Jr. No. 1,397,522; Nov. 22.
Furnace: *See*—
Hot-air furnace. Incinerating-furnace.
Fuse-cartridge. F. A. Feldkamp. No. 1,397,805; Nov. 22.
Fuse-cartridge, Duplex. F. A. Feldkamp. No. 1,397,804; Nov. 22.
Fuse, Percussion-. R. R. Carey, W. L. Lukens, and L. N. D. Mixsell. No. 1,397,855; Nov. 22.
Gage: *See*—
Liner-trimming gage. Pressure-gage.
Garment-holder. D. W. York. No. 1,397,670; Nov. 22.
Garment-press. J. G. Johnson. No. 1,397,635; Nov. 22.
Garment-protector. G. K. Guinsburg. No. 1,397,579; Nov. 22.
Gas-burner. W. T. Clark. No. 1,397,501; Nov. 22.
Gas-burner. I. G. Marquette. No. 1,397,977; Nov. 22.
Gas casing head. W. J. Droppleman. No. 1,396,068; Nov. 22.
Gas-main controller. J. van Ackeren. No. 1,396,055; Nov. 22.
Gate: *See*—
Bin-gate. Railway-gate.
Gear-box. H. Begaty. No. 1,396,171; Nov. 22.
Gears, Hob for generating bevel-. C. G. Olson. No. 1,397,697; Nov. 22.
Gears, Cutter for generating skew-bevel. C. G. Olson. No. 1,398,039; Nov. 22.
Glass-drawing apparatus. H. K. Hitchcock. No. 1,396,019; Nov. 22.
Glass-drawing machine, Sheet-. O. P. Marconet and W. O. Carter. No. 1,398,109; Nov. 22.
Glass-rolling mechanism. J. Soderberg. No. 1,396,046; Nov. 22.
Glass sheets, Producing flat parallel-sided. W. H. Taylor. No. 1,398,050; Nov. 22.
Grain-cleaning machine. H. S. Stansbury. No. 1,396,162; Nov. 22.
Griller. J. M. Segar. No. 1,398,157; Nov. 22.
Grinding machine, Cutter-. J. J. Guest. No. 1,398,187; Nov. 22.
Ground-working tools, Depth-regulating draft device for. H. F. Towner. No. 1,397,748; Nov. 22.
Gum or chewing-gum substitute, Chewing-. A. P. Rapp. No. 1,397,742; Nov. 22.
Gun. O. V. Payne. No. 1,397,698; Nov. 22.
Guns, Sighting-gear for. H. W. Lee and R. Morrison. No. 1,397,765; Nov. 22.
Hair-clipper. A. J. Carlson. No. 1,397,721; Nov. 22.
Hairpins, combs, &c., Retaining means for. L. J. Rhein and R. A. Rehrauer. No. 1,397,604; Nov. 22.
Hand-guard. G. T. Epling. No. 1,397,624; Nov. 22.
Handlamp, Battery-. L. Maisel. No. 1,397,646; Nov. 22.
Handle: *See*—
Tool-handle.
Handle member. P. A. Geier and F. E. Robertson. No. 1,397,662; Nov. 22.
Harvester-threshers, Guard-finger for. B. R. Benjamin. No. 1,397,942; Nov. 22.
Hatpin-guard. J. Lacina. No. 1,397,531; Nov. 22.
Heading-machine. J. Peyser. No. 1,397,651; Nov. 22.
Headlight. O. W. Blackett. No. 1,397,798; Nov. 22.
Headlight. H. E. Ensor and J. Sampson. No. 1,397,803; Nov. 22.
Headlight, Dirigible. G. Cox. No. 1,397,754; Nov. 22.
Heater: *See*—
Automobile-heater. Tank-heater.
Electric heater.
Heating, cooking, and other purposes, Gas-burner for. W. L. and A. M. Shand. No. 1,397,662; Nov. 22.
Heel-breasting machine. H. B. Munson. No. 1,397,897; Nov. 22.
Heel-turning-machine block-holder. J. H. Vinton. No. 1,397,944; Nov. 22.
Hog-eating poultry-protector or hog-muzzle. T. Lynch. No. 1,398,031; Nov. 22.
Hose-clamp. F. J. Costello. No. 1,397,943; Nov. 22.
Hose-supporter. A. S. Trumbull. No. 1,397,902; Nov. 22.
Ice-cream, Filling containers with. H. C. Howe. No. 1,397,520; Nov. 22.
Ice-manufacturing apparatus. J. P. Boyle and W. A. Iamen. No. 1,397,498; Nov. 22.
Igniting device. B. Jurkowski. No. 1,397,637; Nov. 22.
Impregnator. J. R. Wheeler. No. 1,398,212; Nov. 22.
Incinerating-furnace. W. Fetzer, J. G. Frerea, and O. A. Elliott. No. 1,398,184; Nov. 22.
Index system, Card-. J. H. Rand, Jr. No. 1,397,982; Nov. 22.
Intensifier. C. Smith. No. 1,397,788; Nov. 22.
Irrigating-channels, Implement for making. E. F. Chewning. No. 1,397,772; Nov. 22.
Irrigating or sprinkling system. G. E. March. No. 1,397,769; Nov. 22.
Jack: *See*—
Lifting-jack. Lowering-jack.
Jack. F. C. Healy. No. 1,398,182; Nov. 22.
Jack. J. C. Kopf. No. 1,397,871; Nov. 22.

Jack. S. H. Lanyon. No. 1,297,894; Nov. 22.
Joint: *See*—
Universal joint.
Juice and product, Treating. I. S. Merrell; Nos. 1,296,060–1; Nov. 22.
Jumper-seat. F. H. Bucks. No. 1,297,675; Nov. 22.
Kettle. H. A. Moerk. No. 1,297,536; Nov. 22.
Key: *See*—
Coupling-key.
Keys, Pneumatic cushion for. J. J. Coomber. No. 1,297,574; Nov. 22.
Knitting-machine, Yarn-guide mechanism for. E. Lippitt; No. 1,296,103; Nov. 22.
Lacings, Tip for. E. P. King. No. 1,297,520; Nov. 22.
Lamp and making same, Incandescent. O. V. Maurer. No. 1,296,082; Nov. 22.
Lamp brackets, Support for signal-. F. Rapp. No. 1,297,843; Nov. 22.
Lamp, Portable electric. L. E. Shaw and F. M. Rosenfeld. No. 1,297,705; Nov. 22.
Lamps, Making incandescent. O. V. Maurer. No. 1,296,033; Nov. 22.
Lathe, Machines for producing composite metal. F. Neesage. No. 1,296,141; Nov. 22.
Lens, Bifocal. L. W. Hughes. No. 1,297,920; Nov. 22.
Lenses, Headlight diffraction-. C. G. Peters. No. 1,297,822; Nov. 22.
Leveler. J. F. Rapp. No. 1,297,784; Nov. 22.
License-tag holder. J. Fried. No. 1,297,780; Nov. 22.
Lifting-jack. W. C. Engel. No. 1,297,925; Nov. 22.
Lifting-jack. J. C. Kopf. No. 1,297,870; Nov. 22.
Light-extinguisher. D. Leard. No. 1,297,878; Nov. 22.
Limb, Artificial. A. Pringle and T. S. Kirk. No. 1,297,654; Nov. 22.
Liner-trimming gage. G. S. Ball. No. 1,297,612; Nov. 22.
Liquids, Treating. G. Sinclair. No. 1,297,560; Nov. 22.
Loader. O. L. Gilliland. No. 1,297,956; Nov. 22.
Lock: *See*—
Automobile-lock. Pneumatic lock.
Nut-lock. Seal-lock.
Pedal-lock. Transmission-lock.
Lock. M. Sheinman. No. 1,298,044; Nov. 22.
Lock for safes, vaults, &c., Auxiliary. A. S. Allen. No. 1,297,999; Nov. 22.
Locking device. H. Bontow. No. 1,296,157; Nov. 22.
Locomotive, Geared. E. F. Backer. No. 1,297,716; Nov. 22.
Lowering jack, Self-. J. C. Kopf. Nos. 1,297,868–9; Nov. 22.
Lowering jack, Self-. F. H. Schwerin. No. 1,297,882; Nov. 22.
Lubricating system. J. Bignan. No. 1,298,170; Nov. 22.
Lubricator: *See*—
Pump-lubricator.
Luggage-carrier. M. E. Nelson. No. 1,296,140; Nov. 22.
Machine-tools, Table-operating mechanism for. J. Goetz and F. A. Parsons. No. 1,297,731; Nov. 22.
Magazine-loader. C. A. Nelson. No. 1,297,538; Nov. 22.
Mandrel-press. R. W. Taylor, Sr. No. 1,297,910; Nov. 22.
Manifold. H. W. Allen. No. 1,297,712; Nov. 22.
Manure. H. E. Fry. No. 1,297,629; Nov. 22.
Marking-machine. G. H. and E. L. Lang. No. 1,298,076; Nov. 22.
Marshmallow or other material depositing machines, Automatically-operating material-sprinkling hopper for. P. Rasmussen. No. 1,297,658; Nov. 22.
Measuring and describing instrument. J. H. Martin. No. 1,297,816; Nov. 22.
Metal articles, or objects, Depositing metallic coating on various. F. W. Haines and F. L. Sorensen. No. 1,297,514; Nov. 22.
Metal-cutting tool. J. B. Rennie. No. 1,297,983; Nov. 22.
Metal frame construction. W. M. Thomas. No. 1,297,746; Nov. 22.
Metals, Process and apparatus for working. F. P. Kobert. No. 1,298,028; Nov. 22.
Meter: *See*—
Ribbon-meter.
Meter. J. H. Norris. (Reissue.) No. 15,232; Nov. 22.
Milling-machine. W. J. Terry. No. 1,297,709; Nov. 22.
Milling-machines, Drilling attachment for. J. V. Nelson. No. 1,297,696; Nov. 22.
Mine-elevators, Safety device for. J. S. Barnette, Jr. No. 1,296,216; Nov. 22.
Mixer: *See*—
Thermostatic water-mixer.
Moisture control. H. F. Smith. No. 1,297,556; Nov. 22.
Moisture regulation. H. F. Smith. No. 1,297,555; Nov. 22.
Mold: *See*—
Duplex mold.
Moldable composite body. E. E. Novotny. No. 1,298,147; Nov. 22.
Moldable composition and making same. E. E. Novotny. No. 1,298,148; Nov. 22.
Molding articles. E. E. Novotny. No. 1,298,149; Nov. 22.
Mop and scrubber, Combined. G. Jaciuk. No. 1,297,584; Nov. 22.
Mortising-machine. W. T. S. Pate. No. 1,297,900; Nov. 22.
Motion-picture machines, Intermittent drive and framing device for. J. Darby. No. 1,298,128; Nov. 22.
Motorcycles, Compensating spring for the front fork of. M. M. Viratelle. No. 1,297,845; Nov. 22.
Motorcycles, Spring-fork for. E. S. Yarnall and J. J. Richardson. No. 1,297,850; Nov. 22.
Motors, Attachment for. G. W. Pelham and A. Armbruster. No. 1,296,096; Nov. 22.
Motors, Rim and construction for radial. C. L. Lawrence. No. 1,298,194; Nov. 22.
Motors, System and apparatus for controlling. A. K. Allison. No. 1,296,056; Nov. 22.
Music, Perforated and other sheet-. T. McKee. No. 1,296,107; Nov. 22.
Music turner and carrier. W. L. Stevens. No. 1,297,885; Nov. 22.
Needle, Embroidery-. C. C. Cluff. No. 1,296,004; Nov. 22.
Needle, Embroidery-. J. C. Tarallikill. No. 1,296,207; Nov. 22.
Nitrocellulose and to a valuable nitrocellulose product resulting therefrom, Treating. G. C. Bacon and W. C. Wilson. No. 1,297,515; Nov. 22.
Non-skid and traction chain. H. B. Layman. No. 1,297,529; Nov. 22.
Nozzle. C. R. Horne. No. 1,296,128; Nov. 22.
Nozzle for oxyacetylene and similar torches. B. Heyman. No. 1,297,510; Nov. 22.
Nut, bolt, screw, &c. E. Meidal. No. 1,297,876; Nov. 22.
Nut-lock. W. Howarth. No. 1,297,606; Nov. 22.
Nut-lock. D. E. Newcomb. No. 1,297,520; Nov. 22.
Oil-cup. W. H. Lindenfeld. No. 1,297,833; Nov. 22.
Oil-trap. E. P. Jones. Nos. 1,297,591–2; Nov. 22.
Oiling device for fiber silk. J. Jacobs. No. 1,297,522; Nov. 22.
Oiling device for internal-combustion-engine timers. H. J. Wright. No. 1,297,941; Nov. 22.
Ordnance, Hydraulic recoil apparatus for. A. Bromberg. No. 1,294,173; Nov. 22.
Ore, Apparatus for concentrating. E. Luckenbach. No. 1,297,815; Nov. 22.
Ores, Concentration of. H. R. Robbins. No. 1,297,708; Nov. 22.
Ores, Magnetic separation of. C. Thom, E. W. Diamond, and S. G. Blaylock. No. 1,296,051; Nov. 22.
Organ-blower. R. H. Smith. No. 1,297,968; Nov. 22.
Osteopathic instrument. C. E. Pollard. No. 1,296,150; Nov. 22.
Oven attachment. J. C. Ramsay. No. 1,296,152; Nov. 22.
Oxidation and reduction process and apparatus therefor. C. J. Thatcher. No. 1,297,562; Nov. 22.
Oxidation of finely-subdivided material. W. N. Best. No. 1,297,791; Nov. 22.
Oxidation of finely-subdivided material, Apparatus for. W. N. Best. No. 1,297,792; Nov. 22.
Padlock, Permutation-. E. W. Bellamy. No. 1,297,717; Nov. 22.
Paint or varnish composition, &c., Acid-resisting. L. Wickenden. No. 1,298,084; Nov. 22.
Pan: *See*—
Pie-pan.
Paper box construction. H. B. Smith. No. 1,297,608; Nov. 22.
Paper container. H. Drysdale. No. 1,297,756; Nov. 22.
Paper, Core for rolls of. H. Parker. No. 1,297,542; Nov. 22.
Papers and other materials, Fastener for. C. P. Sibley. No. 1,297,787; Nov. 22.
Parting-knife. S. Lefebvre. No. 1,297,691; Nov. 22.
Pedal-lock. C. J. Bender. No. 1,296,122; Nov. 22.
Pen or pencil clip. E. Moore. No. 1,297,818; Nov. 22.
Phonograph-record cabinet. J. Heitman. No. 1,297,517.
Phonograph-record cabinet. C. A. Vastola. No. 1,297,940; Nov. 22.
Phonographs-reproducers, Stylus-holder for. M. Elmer. No. 1,297,535; Nov. 22.
Photographic shutter. A. Wollensak and F. A. G. Pirwitz. No. 1,297,669; Nov. 22.
Picture films, Production of "dissolve" effects in moving-. W. O. Owen. No. 1,297,600; Nov. 22.
Picture films, Production of insets on moving-. W. C. Owen. No. 1,297,602; Nov. 22.
Pictures, Combined apparatus for taking and projecting. E. Allais. No. 1,297,496; Nov. 22.
Pie-pan, Sectional. M. B. Neumeister. No. 1,297,775; Nov. 22.
Pipe: *See*—
Smoking-pipe. Tobacco-pipe.
Pipe-coupling. F. L. Tibbetts. No. 1,298,083; Nov. 22.
Piston. C. de Lukacsevics and E. Loller. No. 1,298,178; Nov. 22.
Planter. R. M. Cole. No. 1,296,066; Nov. 22.
Planter. A. A. Howard. No. 1,296,190; Nov. 22.
Planting-machine. A. S. Kroin. No. 1,297,659; Nov. 22.
Plants, Method and means for enhancing the growth of. C. F. Eckart. (Reissue.) No. 15,231; Nov. 22.
Pliers, Watchmaker's. E. M. Bary. No. 1,297,814; Nov. 22.
Plow. E. B. Hartsough. No. 1,296,075; Nov. 22.
Plow. V. M. Mays. No. 1,297,841; Nov. 22.
Plow, Disk or read. D. B. Thompson. No. 1,296,164; Nov. 22.
Plug, Swivel attachment-. P. S. McLean. No. 1,298,077; Nov. 22.
Plumb and level, Adjustable straightedge. P. T. Fagrie. No. 1,296,183; Nov. 22.
Pneumatic lock, Automatic. H. Pierce. No. 1,297,933; Nov. 22.

Pocket, Garment-. J. M. Franklin. No. 1,297,729; Nov. 22.
Pocket, Stake-. J. L. Dahl. No. 1,297,725; Nov. 22.
Polishing-tool. A. L. Bacon. No. 1,297,680; Nov. 22.
Portable building or structure. C. F. and D. B. McAvoy. No. 1,297,876; Nov. 22.
Potatoes and other plastic materials, Deposition for mashed. J. G. Grassi. No. 1,297,510; Nov. 22.
Poultry-feeder. J. Pfeifer. No. 1,296,041; Nov. 22.
Power-driven press. B. Johnson. No. 1,297,890; Nov. 22.
Power-press. L. L. Pfeifer. No. 1,297,779; Nov. 22.
Press: *See*—
Cider-press. Power-press.
Garment-press. Power-driven press.
Mandrel-press.
Pressure-gage. F. Evans. No. 1,297,728; Nov. 22.
Printers' rollers, Manufacturing. S. Kutner. No. 1,297,898; Nov. 22.
Printing and calculating machine. C. J. Stimson. No. 1,297,889; Nov. 22.
Printing, Device for use in fade-. W. O. Owen. No. 1,297,601; Nov. 22.
Printing-plate matrix and making same. E. E. Novotny. No. 1,298,143; Nov. 22.
Printing-plates, Making metallic. C. N. Smith. No. 1,297,697; Nov. 22.
Pulleys or trolleys, Cable-guard for carrier. E. A. Roessler. No. 1,297,650; Nov. 22.
Pulverizer implement, Soil-. R. H. Griffith. No. 1,297,629; Nov. 22.
Pumps, Compressed-air. W. Milam. No. 1,297,877; Nov. 22.
Pump-lubricator. E. G. Ripley. No. 1,297,548; Nov. 22.
Pump, Rotary. G. B. Petsche. No. 1,297,699; Nov. 22.
Pumps and similar uses, Non-return valve for. G. B. Petsche. No. 1,297,700; Nov. 22.
Queen-bee-rearing device. W. E. Yates. No. 1,297,880; Nov. 22.
Radiator-repair stand. C. A. Kurtz. No. 1,297,981; Nov. 22.
Radiator unit. J. M. Fedders. No. 1,297,625; Nov. 22.
Rails, Combination tie-plate and anticreeper for. M. Overstreet. No. 1,297,770; Nov. 22.
Railway-gate. B. E. Bartholomew. No. 1,298,001; Nov. 22.
Railway mail-transferring device. P. A. Lindberg. No. 1,296,126; Nov. 22.
Railway-tie. W. H. Taylor and W. K. Watts. No. 1,296,119; Nov. 22.
Railways, Signal system for. C. F. Shadle. No. 1,297,883; Nov. 22.
Razor, Safety-. W. Dwyer. No. 1,298,182; Nov. 22.
Razor, Safety-. A. L. Johnston, Jr. No. 1,298,193; Nov. 22.
Reamer. C. E. Skelton. No. 1,297,706; Nov. 22.
Receptacles, Reinforcing-corner for. H. C. Dorn and H. A. Loudke. No. 1,297,628; Nov. 22.
Recorder and register, Combined. R. B. Carmany and A. F. Herring. No. 1,297,502; Nov. 22.
Recording apparatus. E. Viollet. No. 1,297,710; Nov. 22.
Reel: *See*—
Fishing-line reel. Fishing-reel.
Reel. W. J. Frohmuth and D. E. Bohagen. No. 1,298,185; Nov. 22.
Registering apparatus. W. H. Bywater. No. 1,297,854; Nov. 22.
Registering system, Message-. G. K. Thompson. No. 1,297,991; Nov. 22.
Regulator: *See*—
Damper-regulator. Valve-regulator.
Electric thermo-regulator.
Resilient wheel. H. A. Schnittker. No. 1,297,907; Nov. 22.
Resin composition, Synthetic. E. Novotny and D. S. Kendall. No. 1,298,146; Nov. 22.
Resonator. J. Herseg. No. 1,297,723; Nov. 22.
Restaurant service device. J. Hutchinson. No. 1,297,809; Nov. 22.
Ribbon-meter. S. E. Parrish. No. 1,296,040; Nov. 22.
Rim and means for fastening same, Demountable. J. H. Wagenhorst. No. 1,297,565; Nov. 22.
Rim, Demountable. E. Rogowski. No. 1,297,823; Nov. 22.
Rim, Quick-acting demountable. M. Bunsel. No. 1,297,573; Nov. 22.
Rocker-shafts, Support for. B. V. Nordberg. No. 1,297,598; Nov. 22.
Rod: *See*—
Stair-rod.
Rolls, Driving-gear especially for groups of. H. Kay. No. 1,297,893; Nov. 22.
Roof structure. H. E. Marks. No. 1,296,079; Nov. 22.
Roofing, Glass-house. P. W. Jannoch. No. 1,297,762; Nov. 22.
Rubber heel for shoes, Detachable. S. Dow. No. 1,297,834; Nov. 22.
Sand-settler. I. A. Karns. No. 1,297,836; Nov. 22.
Sanitary cap. E. K. Madan and M. P. Levine. No. 1,296,076; Nov. 22.
Sanitary drinking-cups, Dispensing apparatus for. L. W. Luellen. No. 1,298,080; Nov. 22.
Sanitary wardrobe-shelf. J. Forester. No. 1,298,071; Nov. 22.
Sash-fastener. S. Carlson. No. 1,296,174; Nov. 22.
Sash-fastener. C. W. Nichols. No. 1,298,036; Nov. 22.
Sash-fastener. S. Wojcik. No. 1,297,668; Nov. 22.
Sash fastener, Window-. J. P. Crosby. No. 1,297,923; Nov. 22.
Sashes in position, Means for locking window-. H. Rabinowitz. No. 1,297,935; Nov. 22.
Saws, Safety-shield for circular. C. N. Smith. No. 1,297,606; Nov. 22.
Scale, Predetermined-weight. H. O. Hem. No. 1,297,518; Nov. 22.
Scale, Predetermined-weight. O. C. Reeves. No. 1,297,547; Nov. 22.
Scale, Weighing-. S. N. Hurt. No. 1,297,521; Nov. 22.
Scow. C. Kuiman. No. 1,297,527; Nov. 22.
Scraper, Mining self-loading and unloading. C. H. Strange. No. 1,297,560; Nov. 22.
Scraper, Shovel-. G. B. Scott. No. 1,296,062; Nov. 22.
Screen: *See*—
Window-screen.
Screening apparatus. F. D. Ruprecht. No. 1,297,906; Nov. 22.
Seal-lock. R. H. Jones. No. 1,297,587; Nov. 22.
Seaming machine, Can-. H. G. Hill. No. 1,298,018; Nov. 22.
Seat: *See*—
Jumper-seat.
Seat for children, Collapsible. W. V. Holley. No. 1,298,021; Nov. 22.
Seesaw, Whirling. R. Winchel. No. 1,296,166; Nov. 22.
Sewing-machine. H. Corrall. No. 1,297,622; Nov. 22.
Sewing-machines, Binder attachment for. J. F. Bergen and J. Marcus. No. 1,297,853; Nov. 22.
Sewing-machines, Presser-foot for blindstitch. T. J. Hayes. No. 1,297,516; Nov. 22.
Sewing-machines, Thread-controlling mechanism for multiple-needle. G. S. Gatchell. No. 1,297,507; Nov. 22.
Shade-roller and curtain-supporting bracket, Combined. J. N. Gausenhuber. No. 1,297,806; Nov. 22.
Shank-stiffener. W. H. Foss. No. 1,297,661; Nov. 22.
Sharpening device, Rock-drill-. J. H. Hines. No. 1,297,960; Nov. 22.
Shears. E. O'Neil. No. 1,298,111; Nov. 22.
Shock-absorbing mechanism, Friction. J. F. O'Connor. No. 1,298,037; Nov. 22.
Shoe-form. L. V. Aronson. No. 1,297,715; Nov. 22.
Shower-bath apparatus, Portable. L. A. Trial. No. 1,298,208; Nov. 22.
Sign, Electric. D. K. Wade. No. 1,297,995; Nov. 22.
Signal: *See*—
Automobile-signal. Vehicle-signal.
Electric signal.
Slipper, Moccasin-. J. K. McQuinn. No. 1,298,106; Nov. 22.
Slotting-machine. J. H. Scarborough. No. 1,296,202; Nov. 22.
Smoking-pipe. C. F. Hanable. No. 1,297,956; Nov. 22.
Smoking-pipe. G. A. Highfield. No. 1,297,632; Nov. 22.
Snow, Apparatus for removing. J. Pullar. No. 1,298,042; Nov. 22.
Socket-wrench. W. A. Abegg. No. 1,296,054; Nov. 22.
Socket-wrench. E. Dietrich. No. 1,298,150; Nov. 22.
Sodium sulfate to sodium sulfid, Converting. E. J. Anderson. No. 1,297,497; Nov. 22.
Sound-record. E. E. Novotny. No. 1,298,145; Nov. 22.
Sound-record. E. E. Novotny. No. 1,298,148; Nov. 22.
Sound-records, Manufacture of. E. E. Novotny. No. 1,298,144; Nov. 22.
Spacing and punching machine, Sheet. N. E. Woods. No. 1,297,849; Nov. 22.
Spark-plug. J. O. Brock. No. 1,298,173; Nov. 22.
Spark-plug. H. E. Clemons. No. 1,298,175; Nov. 22.
Spark-plug. F. A. Homewood. No. 1,297,624; Nov. 22.
Spark-plug. C. G. Minor. No. 1,297,535; Nov. 22.
Spark-plug. C. G. Pearce. No. 1,297,901; Nov. 22.
Spinning-machines, Graphic recording mechanism for. S. A. Gazda and D. R. Cahill. No. 1,297,578; Nov. 22.
Spinning or winding machine. A. E. Rhoades. No. 1,297,905; Nov. 22.
Spout, Pouring-. A. L. Forsberg. No. 1,297,952; Nov. 22.
Sprayer. R. A. Bachmann. No. 1,297,851; Nov. 22.
Spraying mechanism. H. F. Smith. No. 1,297,557; Nov. 22.
Spring-wheel. J. A. Livings. No. 1,297,839; Nov. 22.
Spur. P. M. Kelly. No. 1,297,966; Nov. 22.
Stacker, Headed-grain. J. A. Schowalter. No. 1,298,204; Nov. 22.
Stage-costume appliance. H. Skremka. No. 1,298,158; Nov. 22.
Stair-rod. W. A. Burns. No. 1,297,618; Nov. 22.
Stanchion, Cattle-. D. B. Coates. No. 1,297,883; Nov. 22.
Stand: *See*—
Radiator-repair stand. Work-holding stand.
Vehicle work-stand.
Starter-control device, Auxiliary. W. Lawrence. No. 1,297,690; Nov. 22.
Steam regulation. H. F. Smith. No. 1,297,554; Nov. 22.
Stenciling. W. G. Fuerth. No. 1,298,018; Nov. 22.
Sterilizing process. J. Diner. No. 1,297,504; Nov. 22.
Stock-feeder. J. Dierks. No. 1,298,179; Nov. 22.
Stoker, Automatic. E. Lundgren. No. 1,297,642; Nov. 22.
Stopper: *See*—
Flue-stopper.
Storage-battery separators, Preparing. C. C. Carpenter. No. 1,298,065; Nov. 22.

Stove, Self-serving. C. Saunders. No. 1,897,824; Nov. 22.
Stove. M. H. Farnes. No. 1,897,806; Nov. 22.
Stove or range. C. D. Carter. No. 1,897,880; Nov. 22.
Strip material, Seal for. E. B. Gager, Jr. No. 1,897,844; Nov. 22.
Submarine signaling, Method and apparatus for. R. A. Fessenden. No. 1,897,949; Nov. 22.
Sulfur-burners, Attachment for. J. B. Crumden. No. 1,897,724; Nov. 22.
Surgical instrument. A. E. Goodlee. No. 1,897,782; Nov. 22.
Swimming appliance. B. Dori. No. 1,898,189; Nov. 22.
Switch: See—
Electric switch.
Table: See—
Extension-table. Takedown table.
Tag, Lock-. M. B. Behrman. No. 1,897,817; Nov. 22.
Takedown table. K. Kunzhige. No. 1,897,764; Nov. 22.
Tank-heater. J. B. Allendorf. No. 1,897,831; Nov. 22.
Tap. F. P. Schroder. No. 1,898,156; Nov. 22.
Tea or coffee pot. B. F. Olsen. No. 1,897,778; Nov. 22.
Teat-cup. A. C. Macartney. No. 1,897,940; Nov. 22.
Telegraphy. T. B. Dixon. No. 1,897,576; Nov. 22.
Telephone attachment. J. P. Lee. No. 1,898,089; Nov. 22.
Temperature-indicator for radiators. A. A. Benson and H. Barnes. No. 1,898,218; Nov. 22.
Temperature water-bath, Constant-. T. Lidberg. No. 1,897,766; Nov. 22.
Temperatures, Means for controlling. T. Lidberg. No. 1,897,694; Nov. 22.
Temple end pieces, Forming. W. H. Bentalls. No. 1,897,919; Nov. 22.
Testing of materials, Method for use in connection with the. J. W. Owens. No. 1,897,541; Nov. 22.
Thermostatic water-mixer. M. O. Smedliker. No. 1,897,707; Nov. 22.
Threshing-machine. A. and B. Dion. No. 1,897,727; Nov. 22.
Ticket-holder and lid-sustainer, Combined. E. W. Hoelscher. No. 1,897,734; Nov. 22.
Tie: See—
Railway-tie.
Tie, Railway-. J. G. Hornlack. No. 1,897,964; Nov. 22.
Time-recording registers, Ribbon-reversing mechanism for. H. B. McCabe. No. 1,897,895; Nov. 22.
Timing device, Automatic. W. E. Allen. No. 1,898,000; Nov. 22.
Tire. H. Owen. No. 1,898,200; Nov. 22.
Tire-casing fillers, Making. F. M. Netzel. No. 1,897,842; Nov. 22.
Tire-casings, Machine for cutting sections from. J. W. Brundage. No. 1,898,123; Nov. 22.
Tire-chain tool. J. D. McCoy. No. 1,897,592; Nov. 22.
Tire for wheels of vehicles, Elastic. E. Ed Court Bendon. No. 1,898,169; Nov. 22.
Tire, Rubber. W. T. Clifford-Harp. No. 1,897,795; Nov. 22.
Tires, Low-pressure signal for automobile-. L. Y. Chard. No. 1,897,619; Nov. 22.
Tires, Wheel-rim-clamping device for automobile-. U. S. Sanders. No. 1,897,813; Nov. 22.
Toaster, Bread-. S. Heath. No. 1,897,959; Nov. 22.
Tobacco-pipe. C. G. Dennin. No. 1,897,946; Nov. 22.
Tobacco-stemming machine. J. W. Slaughter. No. 1,897,551; Nov. 22.
Tonsillotome. H. H. Carstens. No. 1,897,677; Nov. 22.
Tool-handle. C. W. Rief. No. 1,897,783; Nov. 22.
Tool-holder. G. E. Cools. No. 1,897,796; Nov. 22.
Toy aeroplane. H. M. Smurr. No. 1,897,969; Nov. 22.
Trackwalker's kit. D. McChesnie. No. 1,897,644; Nov. 22.
Tractor. V. W. Deckert. No. 1,897,755; Nov. 22.
Transfer means. J. J. Haselwood. No. 1,898,188; Nov. 22.
Transmission-lock. S. I. Fukuta. No. 1,897,926; Nov. 22.
Transmission mechanism. D. L. Kimball. No. 1,898,101; Nov. 22.
Transmission system. A. L. Fitch. No. 1,897,862; Nov. 22.
Transmitter and circuits therefor. N. H. Holland. No. 1,897,687; Nov. 22.
Trip mechanism, Automatic. E. A. Clark. No. 1,897,857; Nov. 22.
Trolley. J. L. Gutweiler and F. W. Kublin. No. 1,897,760; Nov. 22.
Trolley-wire protector. F. Colabrese. No. 1,898,005; Nov. 22.
Truck, Hand-. E. J. Bryan. No. 1,897,719; Nov. 22.
Truck-stakes, Snap-pocket for. T. S. Miller. No. 1,898,116; Nov. 22.
Trunk construction. D. B. Hart. No. 1,898,016; Nov. 22.
Truss. L. D. Gandlen. No. 1,897,863; Nov. 22.
Turbine. H. M. Cake. No. 1,898,124; Nov. 22.
Turnbuckle-wrench. C. J. Johnsen. No. 1,897,810; Nov. 22.
Type-making machine. W. Armstrong. No. 1,897,714; Nov. 22.
Typewriter ribbon-movement. J. A. Hagerstrom. No. 1,897,819; Nov. 22.
Typewriting-machine. E. H. Peterson. No. 1,897,844; Nov. 22.
Typewriting-machine. B. C. Stickney. No. 1,898,048; Nov. 22.
Typewriting-machine, Line-making attachment for. E. G. Pender. No. 1,897,749; Nov. 22.
Typographical composing-machine. D. S. Kennedy. No. 1,897,970; Nov. 22.
Typographical composing and other key-controlled machines, Keyboard mechanism of. T. Drake. No. 1,897,949; Nov. 22.
Typographical distributing-machine. D. S. Kennedy. No. 1,897,969; Nov. 22.
Typographical distributing-machine. D. S. Kennedy. No. 1,897,973; Nov. 22.
Typographical machine. D. S. Kennedy. No. 1,897,967; Nov. 22.
Typographical machine. D. S. Kennedy. No. 1,897,968; Nov. 22.
Typographical machine. D. S. Kennedy. No. 1,897,971; Nov. 22.
Typographical machine. D. S. Kennedy. No. 1,897,974; Nov. 22.
Typographical machines, Keyboard mechanism for. D. S. Kennedy. No. 1,897,976; Nov. 22.
Umbrella. E. E. Chase. No. 1,897,704; Nov. 22.
Umbrella. C. G. Shenstone. No. 1,897,780; Nov. 22.
Umbrella or parasol. W. S. Wilson. No. 1,897,667; Nov. 22.
Universal joint. F. Fischer. No. 1,897,951; Nov. 22.
Urn construction, Multiple-. W. F. Clark. No. 1,897,630; Nov. 22.
Valve. T. G. Jones. No. 1,897,667; Nov. 22.
Valve. C. C. Lauritsen. No. 1,897,691; Nov. 22.
Valve. A. Lattman. No. 1,897,727; Nov. 22.
Valve. W. S. Ralston. No. 1,898,151; Nov. 22.
Valve and switch, Combined brake. T. H. Thomas. No. 1,897,562; Nov. 22.
Valve, Automatic retainer-. T. J. Steinkeller. No. 1,897,900; Nov. 22.
Valve, Blowtorch-. F. K. Low. No. 1,897,814; Nov. 22.
Valve, Dry-pipe. G. L. Rockwood. No. 1,897,704; Nov. 22.
Valve for buildings, Fresh-air. M. B. Meyer. No. 1,897,759; Nov. 22.
Valve-manifold. W. Wishart and A. H. Morrell. No. 1,897,913; Nov. 22.
Valve mechanism. H. W. Hargood. No. 1,897,665; Nov. 22.
Valves of carburetors, Actuating means for throttle-. C. L. Sheppy. No. 1,897,967; Nov. 22.
Valve, Oil-tank. W. F. James. No. 1,898,025; Nov. 22.
Valve-regulator, Automatic. L. E. Egar and N. C. L. Wilhjelm. No. 1,897,680; Nov. 22.
Valve, Turbine governor-. B. B. Lacy. No. 1,897,812; Nov. 22.
Vehicle construction. E. Q. Moses. No. 1,897,894; Nov. 22.
Vehicle construction. H. F. Towner. No. 1,897,747; Nov. 22.
Vehicle, Self-loading. J. B. Von Canon. Nos. 1,897,908–4; Nov. 22.
Vehicle-signal. C. A. Perkins. No. 1,897,778; Nov. 22.
Vehicle suspension means. F. Cornelisen. No. 1,897,922; Nov. 22.
Vehicle work-stand. G. W. Anderson. No. 1,898,057; Nov. 22.
Vehicles, Auxiliary traction device for motor-. A. H. Geddes. No. 1,898,015; Nov. 22.
Vehicles, Device for mounting the springs of. R. Zeppenpo. No. 1,897,997; Nov. 22.
Vehicles, Handbrake for railway-. J. Cunningham. No. 1,897,797; Nov. 22.
Vehicles, Means for suspension of engines in motor-. I. M. Jacobs. No. 1,898,024; Nov. 22.
Vehicles, Signaling apparatus for use on road-. A. H. Kelday. No. 1,897,659; Nov. 22.
Vehicles, Spring suspension for. J. Ljung. No. 1,898,104; Nov. 22.
Vehicles, Suspension for. L. C. Beck. No. 1,898,060; Nov. 22.
Vending-machine. F. R. Bassett. No. 1,897,615; Nov. 22.
Vending-machine. A. B. Pfau. No. 1,897,604; Nov. 22.
Vending-machine. C. S. Scott. No. 1,897,540; Nov. 22.
Vibration, Means for measuring. J. E. Kennedy. No. 1,897,535; Nov. 22.
Vises, Bending attachment for. J. S. Ouellette. No. 1,897,980; Nov. 22.
Wagon-lifting apparatus. C. L. C. Magee. No. 1,897,598; Nov. 22.
Wall structure. A. H. Stowell. No. 1,897,706; Nov. 22.
Washer-timing device. J. E. Dann. No. 1,897,726; Nov. 22.
Washing-machine. J. F. Pierce. No. 1,897,652; Nov. 22.
Washing machine, Plume-. I. Tasse. No. 1,897,745; Nov. 22.
Washing-machine. J. Vincent. No. 1,897,886; Nov. 22.
Water-meters, &c., Register for. W. L. Marden. No. 1,897,524; Nov. 22.
Water-rigging for grasping-drills. W. H. Joyce. No. 1,898,160; Nov. 22.
Waterer, Jar-fountain. J. M. Flitcraft. No. 1,897,627; Nov. 22.
Waterproofing. A. Mohn. No. 1,897,738; Nov. 22.
Weather-strip, Automatic. W. J. Dillard and J. D. Taylor. No. 1,898,181; Nov. 22.
Weather-strip. J. H. Osborn. No. 1,897,979; Nov. 22.
Weeder. E. J. Wonser. No. 1,897,847; Nov. 22.
Weighing-machines and the like, Feeding apparatus for. J. B. Mockridge. No. 1,897,933; Nov. 22.
Well-drilling machine. L. B. Enas. No. 1,897,758; Nov. 22.
Wheel: See—
Demountable wheel. Spring-wheel.
Resilient wheel. Vehicle-wheel.
Wheel construction, Fifth-. C. C. Kessler and F. A. Clock. No. 1,897,988; Nov. 22.
Wheel, Hand-. H. W. Dever. No. 1,898,069; Nov. 22.
Wheel support, Demountable-. G. G. C. Flintermann. No. 1,897,626; Nov. 22.
Wheels, Forming steel. W. H. Walter. No. 1,897,566; Nov. 22.
Wheels, shafts, &c., Driver for. A. J. E. Munters. No. 1,897,819; Nov. 22.
Windlass clamp for sucker-rods and tube-hoists. W. W. C. Spencer. No. 1,897,987; Nov. 22.
Windmills, Controlling device for. A. Ege. No. 1,897,802; Nov. 22.
Windmills, Speed-regulator for. A. G. H. Anderson. No. 1,897,713; Nov. 22.
Window. W. H. Barriere. No. 1,897,671; Nov. 22.
Window-screen. W. J. Hewitt. No. 1,898,017; Nov. 22.
Window-wedge. B. F. Dickens. No. 1,897,959; Nov. 22.
Windshield-cleaner. C. F. Green. No. 1,897,511; Nov. 22.
Wire and securing the same, Articles secured to. F. B. and C. G. Wood. No. 1,897,848; Nov. 22.
Wire rope. J. N. Bellwald. No. 1,897,718; Nov. 22.
Wire-stretcher. J. Niemela. No. 1,897,675; Nov. 22.
Work-holding stand. C. Frair. No. 1,898,006; Nov. 22.
Wrench: See—
Angle-wrench. Turnbuckle-wrench.
Socket-wrench.
Wrench. W. A. Carleton and C. E. Yoho. No. 1,898,125; Nov. 22.
Wrench. S. M. Kathcart. No. 1,897,638; Nov. 22.
Wrench. N. K. Smith. No. 1,897,884; Nov. 22.
Yoke, Temper-screw. V. W. Moyer. No. 1,897,595; Nov. 22.
Zinc, Production of. C. E. Cornelius. No. 1,898,006; Nov. 22.

ALPHABETICAL LIST OF DESIGNS.

Automobile-dewalight, &c., Trimming for an. A. J. Roth. No. 59,784; Nov. 22.
Automobile-window regulator, Handle construction for an. A. J. Roth. No. 59,783; Nov. 22.
Badge, pin, or button, Emblematic. A. G. Warren. No. 59,796; Nov. 22.
Bank, Savings-. W. S. Finley. No. 59,730; Nov. 22.
Bank, Savings-. C. Fisher. Nos. 59,733–4; Nov. 22.
Bracelet. J. Megar. No. 59,764; Nov. 22.
Bedstead end frames, Grille for. C. A. Stuart. No. 59,789; Nov. 22.
Brassière. W. E. Prusan. No. 59,772; Nov. 22.
Bookcover and bookmark, Combination. B. Raff. No. 59,773; Nov. 22.
Bottle. L. B. Newell. No. 59,767; Nov. 22.
Brooch. B. M. West. No. 59,799; Nov. 22.
Buckle, Duplex. J. Miller. No. 59,766; Nov. 22.
Button anchor, Lapel-. W. Fischer. No. 59,782; Nov. 22.
Candy. C. Mascoal. No. 59,760; Nov. 22.
Cards, Pack of playing-. J. J. Laver. No. 59,757; Nov. 22.
Cards, Pack of playing-. G. L. McCarthy. No. 59,761; Nov. 22.
Cash-register. F. L. Fuller. No. 59,735; Nov. 22.
Caster-wheel. W. F. Herold. No. 59,746; Nov. 22.
Charm. E. L. Weed. No. 59,798; Nov. 22.
Clasp or hook for a waist-belt. A. L. Vilandrer. No. 59,795; Nov. 22.
Coin and fare holder. J. J. Saepe. No. 59,791; Nov. 22.
Collar. C. Charles. No. 59,711; Nov. 22.
Condiment-holder. L. Layne. No. 59,758; Nov. 22.
Dispensing apparatus, Stand for. D. H. Clark. No. 59,713; Nov. 22.
Doll. E. R. Scatterday. No. 59,787; Nov. 22.
Electric immersion-heater. D. H. Clark. No. 59,712; Nov. 22.
Electrical accumulator, Sheet-metal stock for making cells or containers for. C. H. Worsnop. No. 59,804; Nov. 22.
Emblem, pin, button, or similar article. E. C. Heathcote. Nos. 59,744–5; Nov. 22.
Fish-bait. J. N. Pigeott. No. 59,770; Nov. 22.
Fuse cutter and splitter. R. Rice. No. 59,774; Nov. 22.
Gage-frame. B. H. Blood. Nos. 59,703–6; Nov. 22.
Game apparatus, Disk or element for a. E. Bruder. No. 59,700; Nov. 22.
Game-board. H. T. Clayton. No. 59,715; Nov. 22.
Game-board. R. J. Dabir. No. 59,719; Nov. 22.
Game-dial or similar article. E. Bruder. Nos. 59,707–8; Nov. 22.
Garment-protector. M. S. George. No. 59,736; Nov. 22.
Handle or similar article of manufacture. A. J. Roth. No. 59,782; Nov. 22.
Heel, Shoe-. R. Iredell. No. 59,753; Nov. 22.
Lace. C. Bernard. No. 59,700; Nov. 22.
Lace. E. A. Davis. Nos. 59,721–3; Nov. 22.
Lace. T. O. Kämalehto. No. 59,755; Nov. 22.
Lamp or other pedestal. F. Roettges. Nos. 59,776–8; Nov. 22.
Lamp or other shade. F. Roettges. Nos. 59,779–81; Nov. 22.
Lamp-shade. S. E. Schwartz and A. Bostroem. No. 59,788; Nov. 22.
Lamp-shade. M. F. F. Wilson. No. 59,800; Nov. 22.
Lens, Blank for an ophthalmic. H. W. Hill. No. 59,747; Nov. 22.
Lens-plate. H. Dalitz. No. 59,720; Nov. 22.
Mixer. H. M. Bigelow. No. 59,702; Nov. 22.
Musical instruments, Bridge for string. E. W. Plate. No. 59,771; Nov. 22.
Pencil. H. L. Fischer. No. 59,731; Nov. 22.
Phonograph-cabinet. E. C. Howard. Nos. 59,749–51; Nov. 22.
Phonograph-cabinet. C. T. Wittstein. No. 59,802; Nov. 22.
Phonographs, Sound-conduit for. E. C. Howard. No. 59,752; Nov. 22.
Pocket member. B. Levy. No. 59,759; Nov. 22.
Radiator ornament. C. E. Elliott and O. L. Nichols. No. 59,725; Nov. 22.
Radiator-shell. G. S. Duarte. No. 59,724; Nov. 22.
Ring, Wedding-. J. C. O'Brien. No. 59,768; Nov. 22.
Rubber heel. W. H. Clarke. No. 59,714; Nov. 22.
Screwdriver. G. L. Hall. No. 59,742; Nov. 22.
Sled. G. Wakeham. No. 59,797; Nov. 22.
Soap-holder. C. E. Erickson. No. 59,727; Nov. 22.
Socket, Plural. W. M. Parker. No. 59,769; Nov. 22.
Spark-intensifier. G. L. Hall. No. 59,743; Nov. 22.
Spectacles. S. J. Clulee. No. 59,716; Nov. 22.
Spring-hanger bracket. R. S. Taylor. No. 59,792; Nov. 22.
Tackle-box. W. Roehl. No. 59,775; Nov. 22.
Telephone-receiver holder. B. Wise. No. 59,801; Nov. 22.
Tire. K. B. Kilborn and W. S. Wolfe. No. 59,755; Nov. 22.
Tire. W. S. Wolfe. No. 59,803; Nov. 22.
Tire, Vehicle-. D. L. Becker. No. 59,699; Nov. 22.
Tire, Vehicle-. W. F. Troast. No. 59,794; Nov. 22.
Towels and other articles, Holder for. C. A. Michaels. No. 59,765; Nov. 22.
Toy balloon-doll. W. M. Colvin. No. 59,718; Nov. 22.
Toy bank. J. H. Bigalow. No. 59,701; Nov. 22.
Toy doll. G. Goss. No. 59,738; Nov. 22.
Traffic-signal. F. F. Ellis. No. 59,726; Nov. 22.
Traffic-signal. G. N. and O. W. Russel. No. 59,785; Nov. 22.
Trucks, &c., Solid rubber tire for motor-. H. B. Coats. No. 59,717; Nov. 22.
Truck, Motor-driven farm-. A. T. Sturt. No. 59,790; Nov. 22.
Vanity-case, brooch, pin, &c. P. J. Thompson. No. 59,793; Nov. 22.
Vehicle, Child's. A. C. Klenke. No. 59,754; Nov. 22.
Vehicle wheel and fender assembly, Motor-. R. B. Fageol. Nos. 59,728–9; Nov. 22.
Waffle-iron. C. M. Burbank. No. 59,710; Nov. 22.
Washing-machine. H. C. Hirschy. No. 59,748; Nov. 22.
Watch-bow. F. G. Gruen. No. 59,741; Nov. 22.
Watch, Wrist-. F. G. Gruen. Nos. 59,739–40; Nov. 22.
Watchcases, Ribbon loop for. J. McGrevy. Nos. 59,762–3; Nov. 22.
Whistle. J. W. Glenn. No. 59,737; Nov. 22.
Wrenches or similar hand tools, Handle for. L. A. Safford. No. 59,786; Nov. 22.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Ammonia. D. Robinson. No. 148,732; Nov. 22.
Amusement game apparatus, Horse-racing. L. A. Eifman. No. 148,648; Nov. 22.
Antirheumatic, analgesic, and antipyretic. Bayer Company. No. 148,636; Nov. 22.
Antiseptic for use after shaving. Tansch Company. No. 148,744; Nov. 22.
Antiseptic mouth-washes. F. S. Carroll. No. 148,639; Nov. 22.
Automobiles. Holmes Automobile Company. No. 148,667; Nov. 22.
Baby-pants and aprons. J. Stein. No. 148,743; Nov. 22.
Baking-powder. Royal Baking Powder Company. No. 148,736; Nov. 22.
Beer, Root-. Southern Beverage Company. No. 148,715; Nov. 22.
Beverage and syrup for making same, Non-alcoholic, maltless. Frank O. Goldsmith. No. 148,652; Nov. 22.
Beverage, Non-alcoholic, maltless. Magnus Fruit Products Co. No. 148,653; Nov. 22.
Beverage, Non-alcoholic, non-cereal, maltless. M. Matranga. No. 148,690; Nov. 22.
Beverages and syrups for making same, Non-alcoholic, non-cereal, maltless. G. W. Anderson. No. 148,620; Nov. 22.
Boilers, Combustion control for steam-. Automatic Fuel Saving Co. No. 148,632; Nov. 22.
Boots and shoes. Huntington Shoe and Leather Company. No. 148,671; Nov. 22.
Butter, eggs, cream. Pioneer Creamery Co. No. 148,705; Nov. 22.
Candles. A. B. McCartney. No. 148,687; Nov. 22.
Candy. Davenport Candy Co. No. 148,766; Nov. 22.
Car metal roofs and parts of same, Railroad-. P. H. Murphy Company. No. 148,692; Nov. 22.
Chambray in the piece. Sears, Roebuck and Co. No. 148,738; Nov. 22.
Chemical, medicinal, and pharmaceutical preparations, Certain. Katzenbach & Bullock Co. No. 148,680; Nov. 22.
Cleaning preparation for cleaning carpets, rugs, &c. S. Krojer. No. 148,682; Nov. 22.
Coal to facilitate combustion, Composition to be sprinkled over. Lean-Keal Manufacturing Company. No. 148,683; Nov. 22.
Coats, vests, pants, and overcoats, Men's. Rosenberg Bros. & Co. No. 148,709; Nov. 22.
Coffee, Green. J. Aron & Company. No. 148,631; Nov. 22.
Collars and cuffs. H. M. Kaus. No. 148,679; Nov. 22.
Construction materials, Certain. Chicago Fire Brick Co. No. 148,641; Nov. 22.
Corsets. F. P. Hoy, Inc. No. 148,669; Nov. 22.
Corsets. International Corset Company. No. 148,672; Nov. 22.
Cotton piece goods. A. M. Robinson Company. No. 148,731; Nov. 22.
Cotton piece goods, Woven. Neuss, Hesslein & Co. No. 148,693; Nov. 22.
Cotton piece goods, Woven. Neuss, Hesslein & Co., Inc. No. 148,694; Nov. 22.
Cream and dentifrice, Gum. Cruse Company. No. 148,754; Nov. 22.
Creams, powders, and lotions, perfumes, Toilet. F. W. Wiseman. No. 148,760; Nov. 22.
Dentifrice. Hayfay Laboratories. No. 148,663; Nov. 22.
Dresses, Girls' and misses'. Schroeder & Company. No. 148,774; Nov. 22.
Feed, Cattle and stock. S. P. Davis. No. 148,757; Nov. 22.
Fire-extinguishing compounds. Foamite Firefoam Company. No. 148,650; Nov. 22.
Flour, Wheat-. W. J. Cahill Company. No. 148,633; Nov. 22.
Flour, Wheat-. Commercial Union of America. No. 148,644; Nov. 22.
Flour, Wheat-. Gallatin Valley Milling Company. No. 148,654; Nov. 22.
Flour, Wheat-. Southwestern Milling Company. No. 148,771; Nov. 22.
Flour, Wheat-. Texas Star Flour Mills. No. 148,717; No. 22.
Foot-lotion. Pe-Do-Lo Chemical Company. No. 148,701; Nov. 22.
Fruits, Crushed. Fialla & Eppler. No. 148,760; Nov. 22.
Gasoleine and removing carbon, Preparation for intensifying. E. K. Lincoln. No. 148,634; Nov. 22.
Gargle, mouth-wash, and nasal spray. San Antonio Drug Co. No. 148,737; Nov. 22.
Garment-fastening device, Certain. Puritan Mfg. Co. No. 148,728; Nov. 22.
Garments for women and children. Stauber Manufacturing Co. No. 148,742; Nov. 22.
Gum, Chewing-. Wm. Wrigley, Jr. Company. No. 148,751; Nov. 22.
Hair-grower. L. B. Moore. No. 148,691; Nov. 22.
Hair-nets. S. Bakal & Son. No. 148,634; Nov. 22.
Hair-tonic and medicinal scalp treatment. W. A. Dedrick. No. 148,646; Nov. 22.
Hat-bandeau. De Leon Bandeau Co. No. 148,758; Nov. 22.
Hosiery. King & Company. No. 148,681; Nov. 22.
Hosiery. Pittsburgh Dry Goods Company. No. 148,706; Nov. 22.
Ice-cream and meranque powders. F. B. Richardson. No. 148,730; Nov. 22.
Insulating compounds, Certain electric. Fibroc Insulation Company. No. 148,649; Nov. 22.
Lard substitutes. O. Wynne. No. 148,773; Nov. 22.
Liniment. J. H. Luff. No. 148,764; Nov. 22.
Lubricant for the human skin. K. R. Pond. No. 148,725; No. 22.
Lubricating apparatus, Certain. Bassick Manufacturing Co. No. 148,685; Nov. 22.
Machinery. Galland-Henning Mfg. Co. No. 148,653; Nov. 22.
Machinery parts. George W. Pyott Co. No. 148,729; Nov. 22.
Mattresses. Never-Stretch Mattress Company. No. 148,767; Nov. 22.
Medicinal and chemical preparations, Certain. Henry B. Gilpin Co. No. 148,655; Nov. 22.
Medicinal and pharmaceutical preparations, Certain. Prontic Druggists, Inc. No. 148,727; Nov. 22.
Medicinal and toilet preparations, Certain. Plough Chemical Company. Nos. 148,722-4; Nov. 22.
Medicinal preparation, Certain. J. W. Grimm. No. 148,659; Nov. 22.
Medicinal preparation, Certain. V. Halper. Nos. 148,660-1; Nov. 22.
Medicinal preparations, Certain. O. R. Lyons. No. 148,686; Nov. 22.
Medicinal preparation, Certain. Myers-Harbrough Company. No. 148,706; Nov. 22.
Medicinal preparation, Certain. E. P. Robinson. No. 148,733; Nov. 22.
Medicinal preparation, Certain. Soderseine Company of North America. No. 148,741; Nov. 22.
Medicinal preparations, Certain. William R. Warner & Co. No. 148,719; Nov. 22.
Medicinal preparation, Certain. Weldon Drug Co. No. 148,721; Nov. 22.
Medicinal preparation for rheumatism, lumbago, &c. No Ruma Medicine Co. No. 148,696; Nov. 22.
Medicinal salve, Certain. Great Northern Supply Company. No. 148,697; Nov. 22.
Mercury injection. P. E. Rincones, Jr., Co. No. 148,707; Nov. 22.
Medicine for certain purposes. Allan J. Dash Company. No. 148,755; Nov. 22.
Medicine for eczema and all skin and scalp diseases. B. F. Ott. No. 148,700; Nov. 22.
Medicine for the liver. J. D. Gregg. No. 148,658; Nov. 22.
Medicine for treatment of nervous system. L. A. Borget. No. 148,637; Nov. 22.
Medicine, Laxative tonic. H. P. Wilkins. No. 148,772; Nov. 22.
Milk, Compound. Wisconsin Butter & Cheese Co. No. 148,749; Nov. 22.
Milk, Evaporated, condensed, and whole-cream. Helvetia Milk Condensing Company. Nos. 148,664-5; Nov. 22.
Motors and electric generators, &c., Stands for testing starting-. Electric Machine Company. No. 148,647; Nov. 22.
Muslin in the piece and pillow-cases. Marshall Field & Company. No. 148,689; Nov. 22.
Oil, Olive-. A. Y. Puebla. No. 148,768; Nov. 22.
Ointment, Antiseptic. Queens Pharmacal Co. No. 148,763; Nov. 22.
Paper, Writing-. Fox River Paper Company. No. 148,651; Nov. 22.
Papers, Certain. Union Card & Paper Co. No. 148,718; Nov. 22.
Pearls, Natural and artificial. W. T. Grant Company. No. 148,656; Nov. 22.
Pens, Fountain-. Simplo Füllfeder Gesellschaft Voss, Lausen & Dalamber. No. 148,710; Nov. 22.
Perfume. Andrew Jergens Company. No. 148,674; Nov. 22.
Perfumes, toilet-creams, dentifrices, &c. E. Bodier & Cie. No. 148,708; Nov. 22.
Perfumes, toilet waters, face-lotions, &c. M. Roussel No. 148,785; Nov. 22.
Piece goods. L. Bach. No. 148,633; Nov. 22.
Plasters. Carter Medicine Company. No. 148,640; Nov. 22.
Pluriglandular formulas for the treatment of various endocrine insufficiencies. H. R. Harrower. No. 148,662; Nov. 22.
Poultry, Dressed. George F. Hinrichs Inc. No. 148,666; Nov. 22.
Powder-puffs. Columbia Powder Puff Co. No. 148,643; Nov. 22.

Powder, Talcum. Sydney Ross Company. No. 148,716; Nov. 22.

Powder, Talcum. J. B. Williams Company. No. 148,748; Nov. 22.

Powder, Toilet. Andrew Jergens Company. No. 148,676; Nov. 22.

Powders, Face and toilet. Parfumerie Houbigant. No. 148,668; Nov. 22.

Powders, perfumes, hair-tonic, &c., Talc and face. Parfumeria Floralia S. A. No. 148,704; Nov. 22.

Preparation for treatment of dandruff and eczema. Towers, Williamson & Tollett. No. 148,745; Nov. 22.

Preparation for treatment of piles. Poth & Kushner. No. 148,726; Nov. 22.

Preparation for tuberculosis. Nuforal Laboratories. Nos. 148,666-8; Nov. 22.

Purgative, Liquid. American Scientific Laboratory. No. 148,753; Nov. 22.

Radiators, Automobile. Perfex Radiator Company. No. 148,703; Nov. 22.

Radiator compounds. Marshall Oil Company of Iowa. No. 148,765; Nov. 22.

Remedy for whooping-cough, &c. J. Jann. No. 148,673; Nov. 22.

Rouge and face-powder. V. Vivaudou, Inc. No. 148,746; Nov. 22.

Salve, Medicinal. F. M. Hunter. No. 148,670; Nov. 22.

Shampoo and dandruff-remover. W. F. Linse. No. 148,685; Nov. 22.

Shingles. Shull Lumber & Shingle Co. No. 148,739; Nov. 22.

Shoes. J. P. Smith Shoe Co. Nos. 148,711-13; Nov. 22.

Silk and silk-mixture fabrics in the piece. Wechsler Barber Silk Co. No. 148,720; Nov. 22.

Silverware, particularly hollow ware and flat-ware. W. D. Smith Silver Co. No. 148,714; Nov. 22.

Skin-lotion. Andrew Jergens Company. No. 148,675; Nov. 22.

Soap. C. A. Doty. No. 148,759; Nov. 22.

Spectacle and eyeglass frames. H. Paulson. No. 148,722; Nov. 22.

Spectacle frames and rims made of celluloid. Ross & Company. No. 148,724; Nov. 22.

Storage-battery electrolyte. Pep Electrolite Co. No. 148,708; Nov. 22.

Sulfate of alumina. Como Chemical Co. No. 148,645; Nov. 22.

Suspenders, garters, men's belts and armbands. A. Ziegler & Sons Company. No. 148,763; Nov. 22.

Syrups, Malt and hops. L. Reine. No. 148,709; Nov. 22.

Tablets, Medicinal preparations. Certain. Johnson, Cowdin & Company. Nos. 148,677-8; Nov. 22.

Toilet preparations, Certain. Alfred H. Smith Company. No. 148,740; Nov. 22.

Tonic, General. Nux-I-Kola Company. No. 148,699; Nov. 22.

Toys, Certain paraffin. J. W. Glenn. No. 148,761; Nov. 22.

Toys, Mechanical. L. T. Savage. No. 148,770; Nov. 22.

Trays, Wooden. International Tray Co. No. 148,762; Nov. 22.

Vehicles, Mechanical traffic-signals for. G. F. Chism. No. 148,642; Nov. 22.

Wood-preservative. G. H. Voter, Inc. No. 148,747; Nov. 22.

ALPHABETICAL LIST OF LABELS.

"A, B, C." (For Packages and Cartons Containing Marshmallow Cream.) American Marshmallow and Candy Company. No. 23,654; Nov. 22.

"Aceite Caliente." (Hot Oil.) (For a Liniment Called Aceite Caliente.) Spanish Chemical Co. No. 23,705; Nov. 22.

"Alamo Brand." (For Cantaloupe.) Alamo Packing Company. No. 23,658; Nov. 22.

"Ambrosia." (For Wheat-Flour.) Texas Star Flour Mills. No. 23,712; Nov. 22.

"Assorted Chocolates." (For Boxes Containing Assorted Chocolates.) Milwaukee Paper Box Company. No. 23,686; Nov. 22.

"Be-ar-o-la." (For a Non-Alcoholic Beverage Sold as a Soft Drink and Containing Sugar and Chocolate, Flavoring.) Choc-O-La Co. No. 23,061; Nov. 22.

"Billet Deaux." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 23,683; Nov. 22.

"Bonnie Scotch Toffee." (For Scotch Toffee.) Imperial Candy Co. No. 23,668; Nov. 22.

"Brer Rabbit Kisses." (For Candy Wrappers, Boxes, and Containers as Used in Marketing the Candy Sold by This Company.) Brer Rabbit Candy Company. No. 23,659; Nov. 22.

"Bushway's." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,679; Nov. 22.

"California Dates." (For Dates.) Tropical Date Company, Inc. No. 23,714; Nov. 22.

"Cherrisweets." (For Boxes Containing Cherries in Candy.) Milwaukee Paper Box Company. No. 23,687; Nov. 22.

"Chic." (For Calf-Leather.) Barnet Leather Co. Inc. No. 23,657; Nov. 22.

"Clover Dew." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,680; Nov. 22.

"Creamery Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,677; Nov. 22.

"Don Juan." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 23,685; Nov. 22.

"Dreadnought." (For Work-Shirts.) Walton N. Moore Dry Goods Co. No. 23,691; Nov. 22.

"E-Z Blue." (For Bluing for Laundry or Washing Purposes.) W. E. Martin. No. 23,676; Nov. 22.

"Equity." (For Apples.) Equity Growers & Shippers Association. No. 23,663; Nov. 22.

"Flexo Harness." (For Toy Harnesses.) Woodward & Cochey, Inc. No. 23,716; Nov. 22.

"Frances Fox Olive Soap For Hair & Skin." (For Soap.) Frances Fox Laboratories, Inc. No. 23,664; Nov. 22.

"Frosnpure." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,682; Nov. 22.

"Game of Black Beauty." (For Game.) Stoll & Edwards Co. Inc. No. 23,710; Nov. 22.

"Game Of Mother Goose." (For Game.) Stoll & Edwards Co. Inc. No. 23,709; Nov. 22.

"Golden Eagle." (For Coffee.) Malone & Hyde, Inc. No. 23,675; Nov. 22.

"Harry's Chocolates." (For Packages, Containers, or Boxes for Containing the Confection.) Harry Hoefler Candy Company. No. 23,667; Nov. 22.

"Health Quality Fruit Cake." (For Boxes Containing Fruit Cake.) Milwaukee Paper Box Company. No. 23,689; Nov. 22.

"High Life." (For Canned Peas.) Inderrieden Canning Co. No. 23,671; Nov. 22.

"Insect Gas." (For Insecticides.) D. Bowen. No. 23,658; Nov. 22.

"Instant Pilsener Brand." (For Malt and Hop Syrup.) Pogel-Giller Co. No. 23,696; Nov. 22.

"Iridio." (For Medicinal Proprietary Preparation.) W. D. P. Aims. No. 23,652; Nov. 22.

"Kenilworth." (For Tuna.) Star Packing Company. No. 23,707; Nov. 22.

"Knapp's Inner Investment." (For Dental Investment Material.) M. F. Patterson Dental Supply Company. No. 23,697; Nov. 22.

"Knapp's Outer Investment." (For Dental Investment Material.) M. F. Patterson Dental Supply Company. No. 23,698; Nov. 22.

"Lasher's Giraffe Elastic." (For All Kinds of Elastics and Elastic Braids.) Star Merchandise Company. No. 23,706; Nov. 22.

"Lawrence Brand XXX Malt." (For Beverages (Malt).) Eagle Beverage Co. No. 23,662; Nov. 22.

"Macbeth's Ox Gall Tablets Compound." (For Cartons or Boxes Inclosing or Containing a Pharmaceutical Preparation or Compound Containing Ox-Gall.) J. F. Murray. No. 23,692; Nov. 22.

"Macbeth's Ox Gall Tablets Compound." (For Cartons or Boxes Inclosing or Containing a Pharmaceutical Preparation or Compound Containing Ox-Gall.) J. F. Murray. No. 23,693; Nov. 22.

"Mel-O-Dee." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 23,684; Nov. 22.

"Melan." (For Calf-Leather.) Barnet Leather Co. Inc. No. 23,656; Nov. 22.

"Menu." (For Canned Peas.) Inderrieden Canning Co. No. 23,670; Nov. 22.

"Milk Mints." (For Boxes Containing Milk Mints.) Milwaukee Paper Box Company. No. 23,688; Nov. 22.

"Mothers." (For Bread.) Saniwax Paper Co. No. 23,702; Nov. 22.

"Nickel Plate." (For Coffee.) Townsend Wholesale Grocery Company. No. 23,713; Nov. 22.

"Nicomors The Super-Gum." (For Chewing-Gum.) Nicomors Products Company, The. No. 23,694; Nov. 22.

"Nu-Life Silver Plate and Polish." (For Bottled Silver Plate and Polish.) Mrs. K. Camp. No. 23,660; Nov. 22.

"Okay." (For Calf-Leather.) Barnet Leather Co. Inc. No. 23,655; Nov. 22.

"Old Fashioned." (For Bread.) Saniwax Paper Co. No. 23,701; Nov. 22.

"Pewaukee Lake." (For Canned Peas.) Inderrieden Canning Co. No. 23,669; Nov. 22.

"Polly Tech." (For Ice-Cream.) Tech Food Products Co. No. 23,711; Nov. 22.

"Red Lion." (For Laundry Soap.) Wm. N. Minish & Son. No. 23,690; Nov. 22.

"Ridernet." (For Hair-Nets.) S. A. Rider Company. No. 23,699; Nov. 22.

"Royal." (For Tin Cans Containing Malt Extract.) M. B. Krause. No. 23,674; Nov. 22.

"Royal Arch." (For Grapes.) Owens & Collins Co. No. 23,695; Nov. 22.

"Schwab's Nature Soap." (For Toilet Soap.) A. Schwab. No. 23,703; Nov. 22.

"Simmons Mattress." (For Mattresses.) Simmons Company, No. 23,704; Nov. 22.

"Sister Susie." (For Boxes, Packages, or Envelops Containing Hair-Nets.) The B. Frankel Co. Inc. No. 23,665; Nov. 22.

"The House That Jack Built." (For Doll-Houses.) Stoll & Edwards Co. Inc. No. 23,708; Nov. 22.

"Tokalon Lip Rouge." (For Receptacles and Packages Containing Deep and Light Colored Lip-Rouges Known in the Trade as Rouge and Clair, Respectively.) International Consolidated Chemical Corporation, Inc. No. 23,673; Nov. 22.

"Toloma." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,678; Nov. 22.

"U. S. Brand." (For Gravenstein Apples.) G. A. Ross. No. 23,700; Nov. 22.

"Unicum Real Human Hair Neta." (For Hair-Nets.) Theo H. Gary Co. No. 23,666; Nov. 22.

"Vita Gold." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,681; Nov. 22.

"Welch's Apple Butter." (For Apple Butter.) The Welch Grape Juice Company. No. 23,715; Nov. 22.

"Wireless." (For Canned Peas.) Inderrieden Canning Co. No. 23,672; Nov. 22.

ALPHABETICAL LIST OF PRINTS.

"Bio-Mac." (For Advertising Purposes for a Non-Intoxicating Beverage.) Bio-Mac Co. No. 5,831; Nov. 22.

"Be Fair To Your Car!" (For Advertising Purposes for Sinclair Oils.) Sinclair Refining Company. No. 5,842; Nov. 22.

"Bond Bread." (For Advertising Purposes for Bond Bread.) General Baking Company. No. 5,833; Nov. 22.

"Capitol Fuel." (For Advertising Purposes for Coal.) Capitol Fuel Company. No. 5,832; Nov. 22.

"Columbia Dry Batteries." (For Advertising Purposes for Columbia Dry Batteries.) National Carbon Company. No. 5,836; Nov. 22.

"Columbia Storage Batteries." (For Advertising Purposes for Columbia Storage Batteries.) National Carbon Company. Nos. 5,835-7; Nov. 22.

"Handy Grease Retainers." (For Advertising Purposes for Grease-Retainers.) F. G. Withrow. No. 5,844; Nov. 22.

"—like lemon? drink Lemon-CrusH." (For Advertising Purposes for Lemon Crush.) Orange Crush Company. No. 5,839; Nov. 22.

"—like oranges? drink Orange-CrusH." (For Advertising Purposes for Orange Crush Company. No. 5,838; Nov. 22.

"Schrader Universal Tire-Pressure-Gauge Schrader Universal Inflating Valve." (For Advertising Purposes for Tire Pressure-Gages, and Inflating-Valves.) A. Schrader's Son. No. 5,840; Nov. 22.

"Sinclair Motor Oil In One Quart Cans." (For Advertising Purposes for Sinclair Oils.) Sinclair Refining Company. No. 5,841; Nov. 22.

"Telling Mamma About Jell-O." (For Advertising Purposes for Jell-O, a Dessert Preparation.) Genesee Pure Food Company. No. 5,834; Nov. 22.

"V. G. Baking Co. Pretsels, Cones." (For Advertising Purposes for Pretsels and Cones.) V. G. Baking Company. No. 5,843; Nov. 22.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Alfalfa-seed. Hairy Peruvian Alfalfa Seed Growers Association. No. 151,451; Nov. 22.

Alizarin, Artificial. British Alizarine Company. No. 150,961; Nov. 22.

Automobile parts and accessories. F. G. Withrow. No. 141,090; Nov. 22.

Automobile-polish. T. J. Nevins. No. 139,866; Nov. 22.

Automobile transmission-bands. Duplex Transmission Bands, Inc. No. 151,910; Nov. 22.

Automobiles. Winfield Barnes Company. No. 135,455; Nov. 22.

Batteries, Electric. American Steel Export Company. No. 150,901; Nov. 22.

Batteries, Electric. Sunbeam Electric Manufacturing Co. No. 151,492; Nov. 22.

Beverage and syrup for making same, Non-alcoholic. T. L. Lange. No. 153,464; Nov. 22.

Beverage, Non-alcoholic. A. Colletti. No. 146,204; Nov. 22.

Beverages and syrups for making same, Non-alcoholic. Diamond Bottling Corporation. No. 153,797; Nov. 22.

Bleaching and decolorising material. Celite Products Company. No. 149,320; Nov. 22.

Bloomers, vests, union-suits. L. Bing. No. 146,684; Nov. 22.

Booklet of recipes, Printed. Baker Extract Company. No. 143,314; Nov. 22.

Brassières, Ladies'. F. Weinberg. No. 138,966; Nov. 22.

Brushes, Lather-. Hardright Company. No. 140,890; Nov. 22.

Brushes, Lather and hair. L. Ascher. No. 137,853; Nov. 22.

Bumpers, tire- and luggage carriers, creepers, &c. Badger Manufacturing Co. No. 148,906; Nov. 22.

Cabinets and tables, Kitchen. I. X. L. Furniture Company. No. 141,983; Nov. 22.

Calcium molybdate. Climax Molybdenum. No. 141,891; Nov. 22.

Candy. Aberdeen Candies. No. 151,859; Nov. 22.

Candy. Alpine Chocolate Company, No. 152,358; Nov. 22.

Candy. C. A. Birch-Field. No. 147,268; Nov. 22.

Candy. Val Blatz Jr. Candy Co. No. 151,824; Nov. 22.

Candy. B. B. Camp. No. 151,412; Nov. 22.

Candy. Harry Hoefler Candy Co. No. 151,581; Nov. 22.

Candy. Package Confectionery Company. No. 151,474; Nov. 22.

Canned fruits and vegetables. New York Canners, Inc. Nos. 151,469-70; Nov. 22.

Canned fruits and vegetables. Santa Clara Valley Canning Co. No. 152,282; Nov. 22.

Canned fruits and vegetables, canned and shell fish. S. Vogel Sons. No. 149,661; Nov. 22.

Canned fruits and vegetables, fruit jams and preserves. New York Canners, Inc. No. 151,466; Nov. 22.

Canned fruits and vegetables, fruit jams. New York Canners, Inc. No. 151,467; Nov. 22.

Car metal roofs and parts of same. Railroad-. P. H. Murphy Company. Nos. 152,025-6; Nov. 22.

Carbon from cylinders and gas-passages of internal-combustion engines, Composition to remove. Step-On-It Manufacturing Company. No. 151,900; Nov. 22.

Catalogues, Annual. Kapo Manufacturing Company, No. 119,906; Nov. 22.

Cement, Building-. Brooklyn Fire Brick Works. No. 149,886; Nov. 22.

Chocolates and candies. Atlas Candy Mfg. Co. No. 152,158; Nov. 22.

Christmas-tree outfits. M. Propp Co. No. 150,879; Nov. 22.

Christmas trees, Decoration suitable for ornamentation of. Conley Foil Company. No. 150,509; Nov. 22.

Cigars. Congress Cigar Co. No. 148,206; Nov. 22.

Cleaning composition for shoes, gloves, &c. Bunney Products. No. 151,655; Nov. 22.

Cleaning compound, Porcelain. Ace Manufacturing Company. No. 152,113; Nov. 22.

Cleaning drain-pipes, Powder for. H. J. McElroy. No. 152,020; Nov. 22.

Cleaning preparation. Saniklene Chemical Co. No. 150,784; Nov. 22.

Clothing, Men's and boys' outer. Quinto, Cohen & Levin. No. 147,683; Nov. 22.

Coffee. Townsend Wholesale Grocery Company. No. 152,288; Nov. 22.

Coloring flames, Chemical compounds for. C. V. Pohlson. No. 151,847; Nov. 22.

Columns. A. L. Smith Iron Works. No. 151,483; Nov. 22.

Combs, Hair-. A. Lichtenstein. No. 138,322; Nov. 22.

Corsets, brassières, corset-covers, and waists. Kops Bros. No. 148,284; Nov. 22.

Corsets, corset-covers, bodices, &c. Rosenthal, Fleischer & Cie. No. 120,818; Nov. 22.

Cotton-batting. Stearns & Foster Company. No. 151,408; Nov. 22.

Cotton-batting. Stearns & Foster Company. No. 151,410; Nov. 22.

Cotton-batting. Stearns & Foster Company. Nos. 151,413-15; Nov. 22.

Cotton-batting. Stearns & Foster Company. Nos. 151,423-5; Nov. 22.

Cream, Face-. J. Simon & Cie. No. 150,771; Nov. 22.

Cream, Vanishing. Ma-Da-Ho Drug Co. No. 150,551; Nov. 22.

Crepe de chine in the piece. Salembier & Clay. No. 141,883; Nov. 22.

Dates and figs, Dried. Great Atlantic and Pacific Tea Company. No. 151,570; Nov. 22.

Desks and office-tables, Sheet-metal. Jamestown Metal Desk Company. No. 147,201; Nov. 22.
Dresses, Children's play. Schon System. No. 144,109; Nov. 22.
Dyes, Cloth-. Angel Dainty Dye Co. No. 139,658; Nov. 22.
Dynamite and permissible explosives. Union Explosives Co. No. 137,589; Nov. 22.
Electrical plugs, receptles, receptacles, and sockets. Ajax Electric Specialty Company. No. 150,496; Nov. 22.
Electrical wire-conduits, Tubing for. Eastern Tube & Tool Company. No. 140,025; Nov. 22.
Electromedical apparatus. Bleadon-Dun Company. No. 148,056; Nov. 22.
Exercisers. Abdominal Couch Company. No. 151,900; Nov. 22.
Fabrics after washing, Compound for treating. Savem Economy Products Co. No. 152,142; Nov. 22.
Fans, Electric motor-driven. B. F. Perkins & Son. No. 151,476; Nov. 22.
Fire-extinguishers, Hand. Embalmers' Supply Co. No. 149,693; Nov. 22.
Food-colors. Chr. Hansen's Laboratory, Inc. No. 141,566; Nov. 22.
Foot-powder, Medicinal. Austilang Company. No. 150,649; Nov. 22.
Fungicides, insecticides, vermicides, &c., for plants, trees, &c. McDougall & Yalding Ltd. No. 149,465; Nov. 22.
Fungicides, insecticides, vermicides, &c., for plants, trees, &c. McDougall & Yalding, Ltd. No. 149,467; Nov. 22.
Furnaces, Gas-heated metallurgical. John Wright & Eagle Range, Ltd. No. 117,760; Nov. 22.
Furniture, automobile, &c., polish. Venecro Lac Company. No. 137,750; Nov. 22.
Game. A. C. Brude. No. 132,718; Nov. 22.
Game board, Educational-. V. O. Watkins. No. 151,694; Nov. 22.
Garments. Union working-. L. F. Metcalf. No. 145,577; Nov. 22.
Garters, Women's and children's elastic. Samstag & Hilder Bros. No. 147,668; Nov. 22.
Gas, Carbonic-acid. Liquid Carbonic Company. No. 151,053; Nov. 22.
Gasolene, cutting-oils, kerosene, &c. Sun Company. No. 142,273; Nov. 22.
Gasolene, kerosene, &c. J. T. Morrow. No. 150,457; Nov. 22.
Glass, glass tableware, &c., Cut. American Wholesale Corporation, (Baltimore Bargain House.) No. 136,057; Nov. 22.
Hair-eradicator. C. W. Upp. No. 152,145; Nov. 22.
Hair-restorer. M. Burnham. No. 146,792; Nov. 22.
Hair-nets. Empire Notion Co. No. 153,718; Nov. 22.
Hair-nets. Gladley Hair Net Company. Nos. 153,597–8; Nov. 22.
Hair-nets. S. Glemby's Sons Co. No. 153,136; Nov. 22.
Hair-nets. Penn Rivet Corporation. No. 139,595; Nov. 22.
Hair-nets. Samstag & Hilder Bros. No. 152,903; Nov. 22.
Hair-tonic. A. B. Renaud. No. 146,091; Nov. 22.
Hair-tonics. Teague and Filmer. No. 149,252; Nov. 22.
Hair tonics and dressings, toilet water, bay-rum. Maxall Chemical Company. No. 144,722; Nov. 22.
Hats, Women's, men's, and children's. S. Schiller. No. 147,478; Nov. 22.
Healing-powder, Antiseptic. R. E. Knight. No. 152,130; Nov. 22.
Hosiery. Lansdale Knitting Company. No. 147,626; Nov. 22.
Hosiery. Paramount Knitting Company. No. 147,458; Nov. 22.
Hosiery. Paramount Knitting Company. No. 147,465; Nov. 22.
Hosiery. Reims & Meims. No. 142,404; Nov. 22.
Hosiery, shirts, underwear, &c., Men's. Desmaer & Engel. No. 148,552; Nov. 22.
Hosiery, underwear, gloves. Glorianna Silk Mills, Inc. No. 145,161; Nov. 22.
Indigestion-corrective. M. S. Small. No. 149,290; Nov. 22.
Ink-eradicator. Jordan Marsh Company. No. 151,904; Nov. 22.
Ink, Gritless news-. Ault & Wiborg Company of N. Y. No. 150,128; Nov. 22.
Insecticides for flies, &c. Groover-Stewart Drug Company. No. 151,986; Nov. 22.
Insulators, Electric. Porcelain Insulater Corporation. No. 150,766; Nov. 22.
Iron and steel. Forsbacka Jernverks Aktiebolag. No. 149,190; Nov. 22.
Irons, lightning-arresters, Electric heating and soldering. L. S. Brach Mfg. Co. No. 119,498; Nov. 22.
Knitted piece goods. Kapo Manufacturing Company. No. 130,489; Nov. 22.
Knitted sweaters and scarfs. Allandale Knitting Mills. No. 148,011; Nov. 22.
Knives, razors, scissors, &c. Hadfields Ltd. No. 133,776; Nov. 22.
Lamps, Automobile electric. C. H. Montague. No. 149,197; Nov. 22.
Laxatives. O. B. Schellberg. No. 151,962; Nov. 22.
Leather. N. R. Allen's Sons Company. No. 150,259; Nov. 22.
Leather, Kid and morocco. Quaker City Morocco Co. No. 152,518; Nov. 22.
Lotion, Skin-. E. N. Greenberg. No. 152,253; Nov. 22.
Lumber and shingles. Federal Cedar Mill Co. No. 147,609; Nov. 22.
Lumber, shingles, &c., Dressed. Ostlinger Lumber Company. No. 151,061; Nov. 22.
Magazines. Yellow Duck Pub. Co. No. 141,640; Nov. 22.
Magazines, Monthly. Corona Typewriter Company. No. 153,129; Nov. 22.
Magazines, Monthly. Knights of Columbus. No. 151,514; Nov. 22.
Malt extract. H. Kamer. No. 153,606; Nov. 22.
Marshmallow topping. Jos. Middleby, Jr., Inc. No. 152,339; Nov. 22.
Mask, Non-massage liquid. G. G. Roloff. No. 133,376; Nov. 22.
Mattresses. McBaxley & Co. No. 152,430; Nov. 22.
Medicine for pyorrhea. Wyo-Col Chemical Company. No. 153,193; Nov. 22.
Medicine, Kidney and liver. C. Lyle. No. 152,175; Nov. 22.
Metal, Molds for shaping molten. J. R. Wood. No. 139,600; Nov. 22.
Metal-polish. G. F. Kearney. No. 153,459; Nov. 22.
Metal-polish. G. A. Lake. No. 153,005; Nov. 22.
Metal-polish. Mirand Polish Company. No. 153,466; Nov. 22.
Milk, Condensed. L. M. Abrahams. No. 152,227; Nov. 22.
Motors, generators, and motor-generator units, Electric. Ray-Bi-Co. No. 150,570; Nov. 22.
Mouth-wash. H. Kay. Nos. 152,171–2; Nov. 22.
Mouth-wash, gargle, or nasal and throat spray. Agol Chemical Company. No. 152,115; Nov. 22.
Music and musical compositions, Sheet-. Waterson, Berlin & Snyder Company. No. 153,118; Nov. 22.
Nickel-silver articles, Bedned-. Berndorfer Metallwarenfabrik. No. 141,412; Nov. 22.
Oil, Olive-. Great Atlantic and Pacific Tea Company. No. 151,580; Nov. 22.
Oil used in treatment of woolen fabrics. American Oil Company. No. 152,114; Nov. 22.
Oils and greases, Lubricating. Edco Oil Co. Registered. No. 147,907; Nov. 22.
Oils for softening and preserving leather. J. H. Baker. No. 149,211; Nov. 22.
Ointment for aches, pains, boils, colds, &c. Lyndon Chemical Company. No. 151,953; Nov. 22.
Ointment for piles, scalds, &c., Antiseptic. Edward J. Moore Sons, Inc. No. 152,132; Nov. 22.
Organ published every two months, House. James H. Rhodes & Company. No. 150,114; Nov. 22.
Paper and cigarette-tubes made of paper, Cigarette-. Wilkinson Bros. & Co. No. 150,419; Nov. 22.
Paper and cigarette-tubes made of paper, Cigarette-. Wilkinson Bros. & Co. No. 150,422; Nov. 22.
Paper straws. Manson Manufacturing Company. No. 146,921; Nov. 22.
Papers and mailing-envelops, Writing and printing. American Writing Paper Company. No. 153,822; Nov. 22.
Perfume, toilet water, sachet, &c. Estasi Perfumery Co. No. 139,792; Nov. 22.
Perfumes, face and toilet powders. J. Simon & Cie. No. 150,773; Nov. 22.
Pharmaceutical preparation. Preston Chemical Company. No. 147,256; Nov. 22.
Pharmaceutical preparation for rheumatism, sciatica, &c. Vawter and Vawter. No. 152,050; Nov. 22.
Phonograph-record disks. E. B. Wheelan. No. 148,781; Nov. 22.
Phonographs, Fiber needles for. Hall Manufacturing Co. No. 145,017; Nov. 22.
Phonographs, phonograph-records, &c. New York Recording Laboratories. No. 152,439; Nov. 22.
Photographic developers. Societe Chimique des Usines du Rhone. No. 147,738; Nov. 22.
Pianos. Coolidge Piano Company. Nos. 153,538–9; Nov. 22.
Pianos. O. W. Wuertz Co. Nos. 150,792–4; Nov. 22.
Pianos and player-pianos. Price and Teeple Piano Company. No. 153,630; Nov. 22.
Pickles, vinegar, fruit jellies and preserves, &c. Roscoe Haegelin Co. No. 152,276; Nov. 22.
Picture and stereopticon films, Motion-. Affiliated Distributors Inc. No. 148,524; Nov. 22.
Pipes for smoking. Manhattan Briar Pipe Company. No. 152,182; Nov. 22.
Piston-rings, Engine. Indiana Piston Ring Company. No. 150,018; Nov. 22.
Plastic mastic material. Insulite Chemical Company. No. 151,371; Nov. 22.
Post-card. Arthur W. Stedman, Inc. No. 148,842; Nov. 22.
Powder, Liquid face-. Lam-T-6 Manufacturing Co. No. 151,983; Nov. 22.
Powders and perfume, Face and talcum. Andrew Jergens Company. No. 152,168; Nov. 22.
Preparation for cleaning the hands. S. J. Danjean. No. 153,451; Nov. 22.
Preparation for skin-poisoning, open wounds, &c. J. Politis. No. 152,090; Nov. 22.

Printing on indigo and vat dies, Chemicals used in. Rohm & Haas Company. No. 151,959; Nov. 22.
Publication, Periodical. W. W. Crook. No. 133,570; Nov. 22.
Publication, Weekly. Allen-Nugent Co. No. 152,734; Nov. 22.
Publications, Weekly. Metropolitan Church Association. No. 147,791; Nov. 22.
Pulp, Wood-. Finnish Cellulose Union. No. 145,745; Nov. 22.
Pumps, Air-. W. M. Ingram. No. 149,403; Nov. 22.
Radiants or refractory heating elements for gas-fires. John Wright & Eagle Range Ltd. Nos. 150,645–6; Nov. 22.
Radiators, Leak-stopping compound for automobile-. T. Dolan. No. 151,985; Nov. 22.
Razors and safety-razors and blades. American Safety Razor Corporation. No. 149,436; Nov. 22.
Remedy for amenorrhea, leuchorrea, &c. Rosol Laboratories. No. 152,847; Nov. 22.
Remedy for chlorosis, anemia, &c. Blanding & Blanding. No. 150,727; Nov. 22.
Remedy for dandruff. S. S. Marks. No. 151,836; Nov. 22.
Remedy, Headache and neuralgia. Agol Chemical Company. No. 152,116; Nov. 22.
Roofing and shingles, sheathing-paper, &c., Asphalt. Irwin Paper Company. No. 148,228; Nov. 22.
Rugs and carpets, Woven. John Bromley & Sons. No. 153,496; Nov. 22.
Salt. International Salt Co. of New York. No. 151,580; Nov. 22.
Salve for colds, catarrh, croup, &c. R. V. Turner. No. 149,251; Nov. 22.
Sandpaper. Wausau Abrasives Company. No. 153,706; Nov. 22.
Sash, doors, blinds, &c. Wm. Cameron & Co. No. 144,498; Nov. 22.
Sash, doors, mill and cabinet work. Goshen Sash and Door Company. No. 146,312; Nov. 22.
Screens and bolts. Wheeling Machine Products Company. No. 150,492; Nov. 22.
Sheets and pillow-cases, Cotton. Clarence Whitman & Son. No. 153,751; Nov. 22.
Shock-absorbers for vehicles. A. N. Anthes. No. 149,574; Nov. 22.
Shoe-dressing. A. V. Oxley. No. 153,470; Nov. 22.
Shoes. Mrs. A. R. King, Inc. No. 125,089; Nov. 22.
Shoes and slippers, Felt. Lind Shoe and Slipper Co. No. 148,446; Nov. 22.
Shoes, Women's leather. Brown Shoe Company. No. 147,816; Nov. 22.
Showcases and store furniture. G. M. Schwartz. No. 151,226; Nov. 22.
Silk piece goods, Broad-. Duplan Silk Corporation. No. 154,502; Nov. 22.
Silks, Broad. J. A. Migel, Inc. Nos. 153,673–5; Nov. 22.
Soap. Manna Products Co. No. 153,311; Nov. 22.
Soap, Washing-machine. Los Angeles Soap Co. No. 153,463; Nov. 22.
Soaps. Colgate & Company. No. 152,986; Nov. 22.
Soaps, soap cakes and flakes, Liquid, &c. Crystal Soap & Chemical Co. No. 151,752; Nov. 22.
Stove-lining, Plastic. Rutland Fire Clay Co. No. 150,769; Nov. 22.
Stove-polish. C. Devlin. No. 150,662; Nov. 22.
Suits, Ladies', misses', and children's. Joseph Eckstein, Inc. No. 148,537; Nov. 22.
Suits, Ladies' three-piece. A. A. Frankel. No. 148,324; Nov. 22.
Syrup for the manufacture of a beverage. J. Macauley. No. 151,327; Nov. 22.
Syrup, Malt-. Perfection Products Co. No. 151,592; Nov. 22.
Syrup, Malt-. W. L. Tribble. No. 152,870; Nov. 22.
Syrups, fruit punch, &c., Fountain-. Marston-Greening Co. No. 153,521; Nov. 22.
Tables for use by doctors, &c., and parts of such tables, Adjustable. W. G. Williams. No. 150,576; Nov. 22.
Theobromin sodium acetate. Societeit voor Chemische Industrie "Katwijk." No. 147,742; Nov. 22.
Tire-pumps, grease-guns, &c. Kentucky Tire Pump Co. No. 146,830; Nov. 22.
Tires, inner tubes, reliners, patches, Automobile. Times Square Auto Supply Co. No. 125,919; Nov. 22.
Tires, reliners, repair-patches, &c., Vehicle-. Federal Rubber Company. No. 146,884; Nov. 22.
Tires, packing, inner tubes, &c., Vehicle-. Federal Rubber Company. No. 146,891; Nov. 22.
Tires, outside and inside tire-sleeves, &c., Vehicle-. Federal Rubber Company. No. 146,898; Nov. 22.
Tonic, Blood and nerve. Clausen Zoller Company. No. 149,540; Nov. 22.
Tooth-paste. M. Kerbel. No. 148,390; Nov. 22.
Toys, Wheeled riding. Richards Mfg. Company. No. 119,869; Nov. 22.
Trucks, Motor-. International Motor Company. No. 152,959; Nov. 22.
Trucks, Motor-drawn tractor-. Equipment Corporation of America. No. 146,819; Nov. 22.
Umbrellas. Advertising Distributors Ass'n. No. 154,009; Nov. 22.
Underwear, bathing-suits, shawls, &c. Winship, Bolt & Co. No. 146,473; Nov. 22.
Underwear, Ladies' silk. Rosenberg & Chatillon. No. 148,350; Nov. 22.
Violin-strings. C. Bruno & Son. No. 151,140; Nov. 22.
Watches. J. Daving. No. 148,981; Nov. 22.
Water bottles and bags, fountain-syringes, &c. Miller Rubber Company. No. 142,635; Nov. 22.
Well-drilling machines, steam-engines, &c. Keystone Driller Company. No. 135,856; Nov. 22.
Welting. Brockton Rand Company. No. 147,702; Nov. 22.
Wines, Champagne-. Werle et Compagnie. No. 148,004; Nov. 22.
Wines, Champagne-. Werle et Compagnie. No. 148,006; Nov. 22.
Wines, Champagne-. Werle et Compagnie. No. 148,008; Nov. 22.
Wire cable, Insulated. United States Rubber Company. No. 151,242; Nov. 22.
X-ray tables and stands. Wm. Meyer Company. No. 138,991; Nov. 22.

CLASSIFICATION OF PATENTS

ISSUED NOVEMBER 22, 1921.

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21: 1,397,896
70— 46: 1,398,044
74: 1,398,159
113: 1,397,717
126: 1,397,664
1,397,926
1,398,122
131: 1,397,524
71— 6: 1,398,113
9: 1,397,620
72— 26: 1,397,650
28: 1,397,708
63: 1,397,678
114: 1,397,746
73— 111: 1,397,726
184: 1,397,720
74— 8: 1,397,778
7: 1,397,888
14: 1,397,567
1,398,112
17: 1,398,194
33: 1,398,089
39: 1,397,680
1,397,798
56: 1,398,101
1,398,171
1,398,191
104: 1,397,521
106: 1,398,178
118: 1,397,895
75— 185: 1,397,694
76— 5: 1,397,980
107: 1,398,196
77— 5: 1,397,696
68: 1,397,771
72: 1,397,706
78— 81: 1,397,895
80— 47: 1,398,185
81— 38: 1,397,920
61: 1,398,180
93: 1,397,810
1,398,159
94: 1,397,884
121: 1,398,116
131: 1,397,688
177: 1,398,054
83— 18: 1,397,646
85— 11: 1,397,528
38: 1,397,698
44: 1,397,982
55: 1,397,903
71: 1,398,051
85: 1,397,708
1,397,815
88: 1,397,749
84— 48: 1,397,953
162: 1,398,107
245: 1,397,988
457: 1,397,985
86— 32: 1,397,576
88— 32: 1,398,109
98— 16: 1,397,699
1,397,922
17: 1,397,517
18.6: 1,397,486
88— 19.5: 1,397,601
84: 1,397,920
43: 1,397,172
89— 43: 1,397,709
90— 18: 1,397,709
21: 1,397,731
91— 2: 1,397,757
48: 1,397,522
68: 1,398,147
93— 2: 1,397,552
26: 1,397,736
55: 1,397,897
94— 14: 1,397,935
95— 11: 1,397,931
32: 1,398,072
63: 1,397,559
97— 3: 1,398,082
12: 1,397,722
30: 1,397,748
34: 1,398,198
35: 1,397,945
37: 1,397,941
40: 1,398,194
67: 1,398,075
98— 27: 1,397,730
99— 5: 1,398,080
1,398,081
11: 1,397,738
1,397,742
12: 1,398,212
13: 1,397,663
1,397,664
1,397,680
18: 1,397,680
100— 57: 1,397,636
101— 232: 1,397,881
321: 1,398,076
401.5: 1,397,714
102— 30: 1,397,855
103— 64: 1,397,536
105: 1,397,802
104— 60: 1,397,530
105— 10: 1,397,582
102: 1,397,716
106: 1,397,716
161: 1,397,689
163: 1,397,658
216: 1,398,120
243: 1,397,695
1,397,698
228: 1,397,965
262: 1,397,676
263: 1,397,726
411: 1,397,674
5: 1,397,526
22: 1,398,140
25: 1,398,014
107— 1: 1,397,656
1,397,981
45: 1,397,655
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52: 1,397,610
108— 6.5: 1,397,970
10: 1,397,762
109— 3: 1,397,990
110— 12: 1,398,184
22: 1,397,791
1,397,793
44: 1,397,642
101: 1,397,653
111— 3: 1,398,190
112— 18: 1,397,622
80: 1,398,004
1,398,037
1,397,953
128: 1,397,953
151: 1,397,516
241: 1,397,507
113— 14: 1,397,651
23: 1,398,018
114— 27: 1,397,527
116— 24: 1,397,619
46: 1,397,630
48: 1,397,947
52: 1,397,698
1,397,801
83: 1,397,972
72: 1,397,793
90: 1,398,160
116— 114: 1,398,218
129: 1,397,518
1,397,547
119— 52: 1,398,041
54: 1,398,179
77: 1,397,627
131: 1,398,031
149: 1,397,553
122— 26: 1,397,537
1,398,095
79: 1,397,585
92: 1,398,105
122: 1,397,712
169: 1,397,634
1,397,535
1,397,901
1,398,172
1,398,175
174: 1,398,190
196: 1,397,941
126— 39: 1,398,152
41: 1,398,157
53: 1,397,606
272: 1,397,985
292: 1,398,088
295: 1,397,952
304: 1,397,856
319: 1,397,753
367: 1,397,531
128— 7: 1,397,722
69: 1,398,150
121: 1,397,998
133: 1,397,624
283: 1,397,570
300: 1,397,677
129— 1: 1,397,677
1,398,054
14: 1,397,645
16: 1,397,616
1,397,982
41: 1,398,214
1,398,215
130— 18: 1,398,102
34: 1,397,727
45: 1,397,955
131— 12: 1,397,632
1,397,946
1,397,956
57: 1,397,551
132— 43: 1,397,832
60: 1,397,604
72: 1,397,521
123— 5: 1,397,889
134— 1: 1,398,201
11: 1,397,738
51: 1,398,084
79: 1,397,915
1,397,986
135— 20: 1,397,789
25: 1,397,667
27: 1,397,794
212: 1,398,026
53: 1,398,151
104: 1,397,591
130: 1,397,857
1,397,987
158: 1,397,813
141— 1: 1,397,745
9: 1,397,767
1,397,846
1,398,022
143— 32: 1,397,589
152: 1,397,608
144— 69: 1,397,920
208: 1,397,981
145— 62: 1,397,785
127: 1,398,070
146— 15: 1,397,512
151— 27: 1,397,808
36: 1,397,520
152— 1: 1,397,705
2: 1,397,529
1,398,009
12: 1,397,727
16: 1,398,189
21: 1,397,813
22: 1,398,200
153— 37: 1,397,907
52: 1,397,530
154— 1: 1,398,141
46.5: 1,398,142
1,398,143
1,398,148
155— 12: 1,397,675
31: 1,398,021
179: 1,397,695
156— 14: 1,398,017
23: 1,397,806
158— 7: 1,397,501
1,397,677
27.4: 1,397,519
35: 1,398,206
46.5: 1,397,838
90: 1,397,952
161— 1: 1,397,992
164— 34: 1,397,710
41: 1,398,203
55: 1,397,911
63: 1,398,158
117: 1,397,948
166— 14: 1,398,088
167— 3: 1,397,894
7: 1,397,895
169— 21: 1,397,704
170— 75: 1,397,713
158: 1,398,052
171— 228: 1,398,054
172— 8: 1,398,096
178— 259: 1,398,077
267: 1,397,988
175— 183: 1,397,844
1,397,728
176— 7: 1,398,083
36: 1,398,082
177— 7: 1,397,582
178— 63: 1,397,576
179— 7: 1,397,991
100.1: 1,397,997
171: 1,397,575
175: 1,397,975
185: 1,398,089
1,398,078
180— 7: 1,398,015
54: 1,397,788
1,397,979
64: 1,398,094
181— 26: 1,397,949
27: 1,397,723
184— 7: 1,398,179
27: 1,398,146
28: 1,397,338
186— 1: 1,397,899
187— 84: 1,398,216
188— 32: 1,398,098
68: 1,397,986
79: 1,397,980
193: 1,397,772
202: 1,397,797
213: 1,397,989
1,398,021
190— 21: 1,398,018
191— 35: 1,398,095
59.1: 1,397,709
192— 44: 1,397,819
110: 1,397,992
116: 1,397,779
193— 45: 1,398,047
196— 3: 1,397,984
197— 103: 1,397,574
113: 1,397,740
127: 1,398,042
157: 1,397,813
160: 1,397,986
190: 1,397,844
199— 18: 1,397,971
19: 1,397,970
33: 1,397,972
34: 1,397,987
39: 1,397,988
1,397,974

200— 26: 1,398,009
78: 1,398,053
126: 1,397,804
1,397,835
138: 1,397,777
142: 1,398,128
204— 1: 1,397,862
1,397,735
8: 1,397,514
13: 1,397,785
18: 1,397,647
29: 1,398,055
38: 1,398,213
58: 1,397,709
63: 1,398,006
205— 41: 1,398,059
44: 1,398,154
65: 1,398,050
206— 97: 1,397,845
1,397,850
210— 61: 1,397,891
1,397,959
109: 1,398,208
211— 6: 1,397,857
8: 1,397,549
1,397,615
1,397,894
11: 1,398,161
16: 1,397,517
1,397,940
27: 1,398,071
32: 1,398,204
212— 32: 1,398,140
213— 17: 1,397,781
64: 1,398,037
214— 17: 1,397,899
49: 1,397,898
66.1: 1,397,719
84: 1,397,843
125: 1,397,563
217— 26: 1,397,889
1,397,848
39: 1,398,045
61: 1,397,734
218— 8: 1,397,647
1,397,648
12: 1,397,667
219— 2: 1,398,093
9: 1,398,158
19: 1,397,894
34: 1,397,572
1,398,157
1,398,168
97: 1,398,217
1,397,706
38: 1,397,709
1,398,013
44: 1,397,959
63: 1,397,888
221— 11: 1,397,923
72: 1,398,211
83: 1,398,057
1,398,088
102: 1,397,934
126: 1,397,688
1,398,095
224— 29: 1,397,626
1,398,204
225— 21: 1,397,939
226— 24: 1,397,820
226— 78: 1,397,651
84: 1,397,617
1,397,638
227— 11: 1,397,643
12: 1,397,649
229— 6: 1,397,888
24: 1,397,888
55: 1,397,903
73: 1,397,893
232— 13: 1,397,844
1,397,847
1,397,848
1,397,904
240— 7: 1,398,011
240— 8.4: 1,397,643
8.5: 1,397,644
1,397,708
48: 1,397,704
48.4: 1,397,707
1,397,708
65: 1,397,704
243— 43.2: 1,397,705
65: 1,397,643
86.1: 1,397,706
1,397,707
84.2: 1,397,710
103: 1,397,904
1,397,908
264— 102: 1,397,902
111: 1,397,894
1,397,895
102: 1,397,879
1,397,897
265— 11: 1,397,709
48: 1,398,180
268— 14: 1,397,723
267— 38: 1,398,093
1,397,695
139: 1,397,906
176: 1,397,646
1,397,705
270— 2: 1,398,127
17: 1,398,128
44: 1,397,899
51: 1,398,097
78: 1,397,713
1,397,888
271— 2: 1,397,888
16: 1,397,892
71: 1,398,094
89: 1,398,104
272— 54: 1,397,897
57: 1,397,898
273— 38: 1,397,813
1,397,888
88.1: 1,397,888
274— 36: 1,397,888
88.1: 1,397,747
134: 1,397,893
1,397,895
275— 14: 1,397,895
51: 1,398,098
1,397,898
276— 1,397,898
280— 1,397,898
282— 1,397,898
285— 1,397,898
289— 1,397,898
290— 32: 1,398,098
289— 32: 1,397,898
37: 1,397,898
88: 1,397,898
1,397,898
114: 1,397,734
173: 1,397,894
205: 1,398,174
261: 1,398,098
276: 1,398,010
316: 1,397,647
345: 1,397,899
288— 41: 1,397,898
55: 1,397,741
1,398,096
1,398,177
58: 1,397,895
289— 10: 1,397,894
32: 1,397,894
1,398,102
29: 1,398,110
289— 29: 1,397,857
1,397,898
69: 1,397,709
77: 1,397,916
1,397,951
149: 1,398,133
292— 9: 1,398,099
11: 1,397,833
17: 1,397,906
19: 1,397,873
20: 1,397,895
295— 18: 1,397,848
276: 1,397,908
295— 29: 1,397,899

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 29TH DAY OF NOVEMBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abrams, Joseph, Sturgis, S. D. Artificial-limb socket. No. 1,398,624; Nov. 29.

Accessories Manufacturing Company. (See Bramming, Carl, assignor.)

Acheson, Edward G., Jr., Niagara Falls, N. Y. Bearing. No. 1,398,219; Nov. 29.

Acheson, Edward G., Jr., Niagara Falls, N. Y. Bearing. No. 1,398,220; Nov. 29.

Acme Die Casting Corporation. (See Bungay, George W., assignor.)

Adenot, Marius, Caluire, France, assignor to Société Lyonnaise D'Industrie Mecanique. Compressed-air mechanism for motor-cars and the like. No. 1,398,355; Nov. 29.

Ailis, Harry W., Cincinnati, Ohio. Automobile tool-box. No. 1,398,824; Nov. 29.

Ailis, Harry W., Cincinnati, Ohio. Vehicle-curtain container. No. 1,398,585; Nov. 29.

Aker, Smith N., Newbern, Tenn. Cotton-picker's sack. No. 1,398,826; Nov. 29.

Akers, Joseph B., New York, N. Y. Curtain-rod. No. 1,398,411; Nov. 29.

Akin, Earl V. (See Allyn, Walter S., assignor.)

Albro, George F., Los Angeles, Calif. Combined office and drophead-typewriter desk. No. 1,398,618; Nov. 29.

Allen, Bernard J., Blythe Bridge, England. Means for casting pottery and like articles. No. 1,398,760; Nov. 29.

Allen, S. L., & Co. (See Mader, Joseph, assignor.)

Allyn, Harley H., assignor to Standard Rubber Company, Houston, Tex. Pneumatic tire. No. 1,398,482; Nov. 29.

Allyn, Walter S., Logan, assignor of one-half to E. V. Akin, Benton, Ill. Car-stopping attachment for elevators. No. 1,398,619; Nov. 29.

Aman, George A., et al. (See Becker, Hugo A., assignor.)

American Can Company. (See Graf, Henry G., assignor.)

American Cellulose and Chemical Manufacturing Company. (See Bregga, J. F., and Palmer, assignors.)

American Cyanamid Company. (See Washburn, Frank S., assignor.)

American District Telegraph Company. (See Hopkins, Richard M., assignor.)

American La France Fire Engine Company. (See Hawley, William G., assignor.)

American Laundry Machinery Company, The. (See Andrée, William R., assignor.)

American Laundry Machinery Company, The. (See Braley, Charles L., assignor.)

American Laundry Machinery Company, The. (See Waream, C. E., and Benjamin, assignors.)

American Telephone and Telegraph Company. (See Hitchcock, Harry W., assignor.)

American Telephone and Telegraph Company. (See Thompson, George K., assignor.)

American Thermophone Company. (See Gray, Budd D., assignor.)

American Well Works, The. (See Kerr, Charles V., assignor.)

Anderson-Barngrover Mfg. Co. (See Thompson, Albert R., assignor.)

Anderson, Charles H., assignor of one-third to C. H. Anderson, one-third to J. T. Hughes, and one-third to E. L. Bozarth, Oklahoma, Okla. Polishing-brush. No. 1,398,772; Nov. 29.

Anderson, Edwin O., Jersey City, N. J. Switch. No. 1,398,823; Nov. 29.

Andrée, William R., Chicago, Ill., assignor to The American Laundry Machinery Company, Norwood, Ohio. Tandem attachment for garment-presses. No. 1,398,827; Nov. 29.

Angle, E. H., Pasadena, Calif., and S. R. Atkinson, Atlanta, Ga. Orthodontic appliance. No. 1,398,761; Nov. 29.

Arbuckle, Samuel F., Indianapolis, Ind. Fluid-controlled actuating means. No. 1,398,291; Nov. 29.

Arbuckle, Samuel F., Indianapolis, assignor to United States Automotive Corporation, Connersville, Ind. Two-way-tilting reflector for lamps. No. 1,398,292; Nov. 29.

Armstrong, Constance D., Gisborne, New Zealand. Dish-cleaner. No. 1,398,664; Nov. 29.

Armstrong, Sir W. G., Whitworth and Company Limited. (See Chicken, C. B., and Scott, assignors.)

Arnold, Harold D., Maplewood, N. J. Thermionic amplifier. No. 1,398,665; Nov. 29.

Apgar, Stanley, assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Plow-point. No. 1,398,762; Nov. 29.

Appleton, Henry J., Detroit, Mich. Air-compressing apparatus. No. 1,398,251; Nov. 29.

Athol Manufacturing Company. (See Mitchell, Rowland B., assignor.)

Atkinson, Spencer R. (See Angle, E. H., and Atkinson.)

Atwood, A. L. (See Bennett, Oscar L., assignor.)

Atwood, A. L. (See Parmenter, Brady, assignor.)

Autarit-Gesellschaft M. b. H. (See Rechnitzer, Alexander, assignor.)

Automatic Electric Company. (See Kuhl, George H., assignor.)

Avery, W. & T., Limited. (See Timson, William, assignor.)

Avery Drilling Machine Company, The. (See Mirrielees, James F., assignor.)

Babcock, Howard L. (See Tarkington, Harry E., assignor.)

Bamboo Paper Company. (See Jardine, James L., assignor.)

Barger, Newton L., Braeholm, and J. P. Donaldson, Morgantown, assignors, by direct and mesne assignments, to Ford-Barger Machinery Co., Braeholm, W. Va. Loading-machine. (Reissue.) No. 15,234; Nov. 29.

Barkschat, Henry, Los Angeles, Calif. Mold. No. 1,398,412; Nov. 29.

Bartholdy, Max, Karlskoga, Sweden, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gage. No. 1,398,311; Nov. 29.

Bartlemay, Arlie, assignor to Red Cross Manufacturing Company, Bluffton, Ind. Cider-press. No. 1,398,252; Nov. 29.

Bassick Company, The. (See Cummins, Norman W., assignor.)

Bates, Arthur, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for inserting fastenings. No. 1,398,293; Nov. 29.

Baumgartner, John A. (See Raich, John B., assignor.)

Bayrer, Homer H., administrator. (See Bayrer, William J.)

Bayrer, William J., deceased, Hartford, Conn.; H. H. Bayrer, administrator, assignor to R. G. Henry, West Hartford, Conn. Lubricating means. No. 1,398,836; Nov. 29.

Beach, Herbert H., Balham, London, England. Combined sifter and shovel. No. 1,398,666; Nov. 29.

Beard, James R., Newcastle-upon-Tyne, England. Protecting device for multiphase alternating-current apparatus. No. 1,398,620; Nov. 29.

Bearens, Claude, New York, N. Y. Transmission-gear. No. 1,398,763; Nov. 29.

Beals, Erl V., Arlington Heights, Mass. Internal-combustion engine. No. 1,398,667; Nov. 29.

Beaumont, R. H., Company. (See Hale, William E., assignor.)

Becker, Hugo A., assignor of forty-five per cent. to G. A. Aman and twenty-five per cent. to F. Huart, Baltimore, Md. Combination spring and shock-absorber. No. 1,398,929; Nov. 29.

Beker, Steven, assignor of one-half to C. B. Eckfeld, Unionville, Mich. Antiskid device. No. 1,398,556; Nov. 29.

Bellony, Alexander M., U. S. Army. Wheel blocking and jacking device. No. 1,398,534; Nov. 29.

Belluche, Frank R. (See Upham, B. F., and Belluche.)

Benjamin, Dana H. (See Waream, C. E., and Benjamin.)

Bennett, George R., Glen Osborne, Pa. Cotton picking and cleaning. No. 1,398,930; Nov. 29.

Bennett, Oscar L., assignor of one-half to A. L. Atwood, Birmingham, Ala. Penholder. No. 1,398,535; Nov. 29.

Bennington, Russell L., Lake City, Iowa. Releasing device for poultry-house doors. No. 1,398,829; Nov. 29.

Bensel, Fritz H. (See Szarvassy, I., and Bensel.)

Berggren, John, Idaho Falls, Idaho. Wrench. No. 1,398,886; Nov. 29.

Bernhart, Charles B. (See Kirby, J., Hopkins, and Bernhart.)

Bethlehem Steel Company. (See Lachman, Maurice, and L. S., assignors.)

Björklund, Gustav. (See Schwars, J. O., and Björklund.)

Black, John O., Nashville, Tenn. Hitch structure. No. 1,398,312; Nov. 29.
Blakeman, Joseph T., Richland Center, Wis. Steam-generator. No. 1,398,562; Nov. 29.
Blando, Frank, New York, N. Y. Folding chair and bed. No. 1,398,253; Nov. 29.
Blaw-Knox Company. (See Venable, William M., assignor.)
Bliss, William L., assignor to U. S. Light and Heat Corporation, Niagara Falls, N. Y. Generator-mounting. No. 1,398,830; Nov. 29.
Bliss, William L., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Generator-mounting. No. 1,398,831; Nov. 29.
Blum, Morris, Los Angeles, Calif. Valve. No. 1,398,764; Nov. 29.
Boardman, Charles S., Buffalo, assignor to Lackawanna Steel Company, Lackawanna, N. Y. Construction of caissons, cofferdams, and the like. No. 1,398,221; Nov. 29.
Bochmert, Otto, assignor to Vitanola Talking Machine Company, Chicago, Ill. Indicator or measuring-gage for disk records. No. 1,398,710; Nov. 29.
Bofsky, Frank J., Detroit, Mich. Paper-cutter. No. 1,398,711; Nov. 29.
Bofsky, Frank J., Detroit, Mich. Powder-puff. No. 1,398,712; Nov. 29.
Bond, Frederick W., Ransomville, N. Y. Excavating-bucket and operating means therefor. No. 1,398,222; Nov. 29.
Bond, Thomas J., Gadsden, Ala. Hook. No. 1,398,587; Nov. 29.
Bonham, William K., Coffeyville, Kans. Dome-cover for oil-cars. No. 1,398,832; Nov. 29.
Booth Fisheries Company. (See Koehler, Carl W., assignor.)
Bordsen, Evandor K. M., Wedderburn, Oreg. Pavertser attachment for tractors. No. 1,398,668; Nov. 29.
Bouldin, Samuel L., Oswego, Kans. Train-coaler. No. 1,398,888; Nov. 29.
Bournous, George S., et al. (See Jonas, Edward S., assignor.)
Bovee, Ransom Y., Maywood, Ill. Folding combination toilet article. No. 1,398,583; Nov. 29.
Bowen, David R., and C. F. Schauck, assignors to Farrel Foundry and Machine Company, Ansonia, Conn. Machine for treating rubber and similiar material. No. 1,398,765; Nov. 29.
Boykin, Burwell, Jr., Beaumont, Tex. Well-boring apparatus. No. 1,398,413; Nov. 29.
Bozarth, Edgar L., et al. (See Anderson, Charles H., assignor.)
Braddick, Bernard L., San Diego, Calif. Dough-roll and rolling-pin. No. 1,398,621; Nov. 29.
Braden, William A., assignor of one-half to T. H. Eichhoff, Cleveland, Ohio. Track construction. No. 1,398,932; Nov. 29.
Bradford, William D., Sewickley, Pa. Box for pouring steel ingots. No. 1,398,584; Nov. 29.
Braley, Charles L., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Tandem attachment for ironing-presses. No. 1,398,824; Nov. 29.
Bramming, Carl, Chicago, Ill., assignor to Accessories Manufacturing Company. Dash-lamp. No. 1,398,313; Nov. 29.
Brereton, John W., deceased; by Robert K. Brereton, executor, Athlone, Ireland. Pneumatic shock-absorber. No. 1,398,933; Nov. 29.
Brereton, Robert K., executor. (See Brereton, John W.)
Bridges, Edward G., assignor to Lynch Glass Machinery Company, Anderson, Ind. Mold-clamp for glass-forming machines. No. 1,398,670; Nov. 29.
Briggs, John F., and C. W. Palmer, Speedon, near Derby, England, assignors to American Cellulose and Chemical Manufacturing Company Limited. Dyeing fibers, threads, or fabrics. No. 1,398,357; Nov. 29.
Brill, J. G., Company, The. (See Shipper, Isaac D., assignor.)
Bristol Aeroplane Company. (See Fedden, A. H. R. and B., assignors.)
Broman, Peter, assignor to Brown Safety Ladder Mfg. Co., Chicago, Ill. Extension-ladder stop. No. 1,398,622; Nov. 29.
Brooker, Henry, Goodmayes, England. Coin-feed delivery apparatus. No. 1,398,704; Nov. 29.
Brown & Sharpe Manufacturing Company. (See Goguen, C. J., and Provost, assignors.)
Brown, Carl B., Columbus, assignor to Parker Manufacturing Company, Dayton, Ohio. Oil-burner. No. 1,398,254; Nov. 29.
Brown, Elmer K., Seattle, Wash. Automatic road-map. No. 1,398,623; Nov. 29.
Brown, Harvey O., Easton, Pa. Filling stop-motion for looms. No. 1,398,718; Nov. 29.
Brown, James D. (See Hohnsbeen, George H., assignor.)
Brown, J. D. (See Hohnsbeen, George H., assignor.)
Brown, John F. (See Wagner, Ira W., assignor.)
Brown, John G., Newport, England. Upright photographic enlarging, copying, and reducing apparatus. No. 1,398,671; Nov. 29.
Brown, Ray M., Yonkers, assignor to H. L. Ingersoll, White Plains, N. Y. Controlling mechanism for locomotive booster-motors. No. 1,398,586; Nov. 29.
Brown Safety Ladder Mfg. Co. (See Broman, Peter, assignor.)
Brownstein, Jesse B., Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y. Manufacture of nitrostarch explosives. No. 1,398,931; Nov. 29.
Brown, William J., Newark, N. J. Suspension drive for sewing-machines. No. 1,398,486; Nov. 29.
Brubaker, William, Tolsa, N. D. Coating. No. 1,398,255; Nov. 29.
Brucker, Ferdinand F., assignor to The Miller Rubber Company, Akron, Ohio. Half-sole for pneumatic tires. No. 1,398,414; Nov. 29.
Buchner, Leopold B., Fitzroy, Melbourne, Victoria, Australia. Luminous display apparatus. No. 1,398,835. Nov. 29.
Budd Wheel Company. (See Fine, Lewis, assignor.)
Bullot, Louis, F., Sydney, New South Wales, Australia. Preserving meat and alimentary substances. No. 1,398,836; Nov. 29.
Bungay, George W., Brooklyn, N. Y., assignor to Acme Die Casting Corporation. Die-casting machine. No. 1,398,514; Nov. 29.
Bundy, Glenn J., assignor to Detroit Battery Company, Detroit, Mich. Battery-cover. No. 1,398,558; Nov. 29.
Burnham, George A., Saugus, assignor to Sears B. Condit, Jr., Brookline, Mass. Cover-lock. No. 1,398,499; Nov. 29.
Burman, Olof S., Minneapolis, Minn. Faucet and attaching-bracket. No. 1,398,767; Nov. 29.
Burtis, Walter L., Tuckahoe, N. Y. Casement-holder. No. 1,398,768; Nov. 29.
Burton Page Company, The. (See Endorf, Charles, Jr., assignor.)
Buschino, Charles, Long Island City, assignor of one-half to W. C. St. Clair, New Rochelle, N. Y. Internal-combustion engine. No. 1,398,953; Nov. 29.
Bush, Green O., Luverne, Ala. Refrigerator. No. 1,398,769; Nov. 29.
Butcher, James M., assignor to Sentinel Alarm Co., Chicago, Ill. Alarm. No. 1,398,585; Nov. 29.
Butler, Leonard P. G. (See Fedden, A. H. R., and Butler.)
Byrd, Turner, Lansing, Mich. Eaves-trough. No. 1,398,415; Nov. 29.
Cadigan, John R., New York, N. Y. Safety attachment for gas-stoves. No. 1,398,585; Nov. 29.
Caesar, Ambrose, Mosman, near Sydney, New South Wales, Australia. Hand clipper-mower. No. 1,398,672; Nov. 29.
Cain, James W., Detroit, Mich. Acetylene-generator. No. 1,398,673; Nov. 29.
Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Railway draft-rigging. No. 1,398,674; Nov. 29.
Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Convertible box-car. No. 1,398,675; Nov. 29.
Campbell, Samuel M., Rock Island, Ill. Connecting-rod aligner. No. 1,398,589; Nov. 29.
Canby, Albert E., Hubbard, Ohio. Windshield-cover. No. 1,398,714; Nov. 29.
Caracristi, Virginius Z., Bronxville, N. Y. Valve-cut-off correction instrument for locomotives. No. 1,398,256; Nov. 29.
Carkey, George M., Bloomington, Calif. Weeder. No. 1,398,500; Nov. 29.
Carleton, Francis B., Boston, Mass. Alcohol-torch. No. 1,398,676; Nov. 29.
Carlson, Hjalmar G., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass. Adjustable pipe-hanger. No. 1,398,294; Nov. 29.
Carlson-Westrom Co. (See Lundgren, Jacob, assignor.)
Carner, Henry E., Anaheim, Calif. Drawbar for tractors. No. 1,398,416; Nov. 29.
Carolus, Max, Teltow, near Berlin, Germany. Suspension-insulator. No. 1,398,937; Nov. 29.
Carter, Joseph, Saskatoon, Saskatchewan, Canada. Game. No. 1,398,837; Nov. 29.
Carroll, William P., Portland, Me. Signal device for automobiles. No. 1,398,677; Nov. 29.
Carson, Harry L., and R. A. Hunter, Fort Worth, Tex. Detachable mangle. No. 1,398,501; Nov. 29.
Carver, Thomas A. B., Glasgow, Scotland. Picture or design having motion effect. No. 1,398,838; Nov. 29.
Cawthra, Ernest H., assignor to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Fuel supply and regulating system for aircraft-engines. No. 1,398,315; Nov. 29.
Central Railway Signal Company. (See Dutcher, Frank, assignor.)
Central Steel Company, The. (See McNally, T., and Orr, assignors.)
Chaitt, Jacob. (See Smiler, J. M., Segal, Chaitt, and Rudin.)
Chapman, Albert K., assignor to Eastman Kodak Company, Rochester, N. Y. Film-holder. No. 1,398,928; Nov. 29.
Chapman, Frederick E., Middletown, Conn. Pipe-rest. No. 1,398,223; Nov. 29.
Chase Companys, Inc., The. (See Becker, Adolph C., assignor.)
Chauvette, Victor E. L., Paris, France. Printing-machine. No. 1,398,360; Nov. 29.
Chicken, Christopher B., and G. Scott, assignors to Sir W. G. Armstrong, Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Variable-speed gearing. No. 1,398,417; Nov. 29.

Christensen, Magnus C., assignor of one-half to Randolph F. Beckbeart, Tacoma, Wash. Gate-valve. No. 1,398,678; Nov. 29.
Chrzastek, Mike, Passaic, N. J. Cabbage-slicer. No. 1,398,257; Nov. 29.
Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,398,861; Nov. 29.
Church, Herbert E., Oneonta, N. Y. Combined shade-bracket and pole-support. No. 1,398,418; Nov. 29.
Clapp, Albert L., Marblehead, Mass. Transferring or embossing paper. No. 1,398,770; Nov. 29.
Clarke, Algernon, Ed, Grand Rapids, Mich. Undergarment. No. 1,398,624; Nov. 29.
Clarke, Hans T., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ester composition. No. 1,398,930; Nov. 29.
Clarke, William H., Sydney, New South Wales, Australia. Incubator-alarm. No. 1,398,537; Nov. 29.
Clarke, William L., Jr., assignor of one-half to J. A. Grant, Tallahassee, Fla. Street-indicator. No. 1,398,771; Nov. 29.
Clark, Charles J., Lakewood, Ohio. Tool-holder. No. 1,398,679; Nov. 29.
Clary, John, Oakland, Calif. Burner. No. 1,398,839; Nov. 29.
Clark, Joseph M., Apollo, Pa. Wrench. No. 1,398,869; Nov. 29.
Clayton, Joseph, New York, N. Y. Take-up mechanism for winding devices. No. 1,398,680; Nov. 29.
Clinton Refrigerating Company. (See Wishart, W., and Morrell, assignors.)
Cloud, James, Columbus, Ohio. Tank. No. 1,398,934; Nov. 29.
Clough, William B., Redondo Beach, Calif. Hand and foot accelerator for carburetors of automobile-engines. No. 1,398,826; Nov. 29.
Coatsworth, William, Highland Park, Mich. Truck-wheel shoe. No. 1,398,860; Nov. 29.
Cole, William H., Newark, N. J. Non-resonant phonograph-cabinet. No. 1,398,626; Nov. 29.
Collins, Elbe O., Chillicothe, Ohio. Dust-cap and sleeve for fastating valve-tubes. No. 1,398,316; Nov. 29.
Collins, Thomas E., Chicago, Ill. Door-closer. No. 1,398,317; Nov. 29.
Columbia Machine & Stopper Co. (See Kendall, Carl W., assignor.)
Columbia Machine Works & Malleable Iron Co. (See Wenaldis, Joseph T., assignor.)
Cook, William H., Toledo, Ohio. Detonating alarm. No. 1,398,862; Nov. 29.
Cott-a-lap Co. (See Stirling, Charles, assignor.)
Combination Machine Company. (See Peterson, Jonathan, assignor.)
Combs, James M., Akron, assignor of one-half to V. R. Smithfield, Cleveland, Ohio. Inner tube and making same. No. 1,398,940; Nov. 29.
Combs, James M., Akron, assignor of one-half to V. R. Smithfield, Cleveland, Ohio. Resilient cushion for heels. No. 1,398,627; Nov. 29.
Concrete Silo Company. (See Pearson, James H., assignor.)
Condit, Sears B., Jr. (See Burnham, George A., assignor.)
Condon, David J., Kenwood Park, Iowa. Emergency vault and safe lock. No. 1,398,628; Nov. 29.
Conley, Edwin J., New York, N. Y. Package and forming the same. No. 1,398,840; Nov. 29.
Connecticut Aircraft Company. (See Smith, Rexford M., assignor.)
Connecticut Valley Manufacturing Company, The. (See Hayden, Louis S., assignor.)
Connor, George H., St. Louis, Mo. Portable piercing device. No. 1,398,419; Nov. 29.
Cooke, Frank V., Highland Park, Mich. Nut-locking means. No. 1,398,681; Nov. 29.
Cooley, Herbert E., West Bend, Wis. Nailing and tacking machine. No. 1,398,258; Nov. 29.
Conover, Courtney, Philadelphia, Pa. Liquid-container. No. 1,398,841; Nov. 29.
Consolidating Car-Heating Company. (See Hynes, Lee P., assignor.)
Corona Typewriter Company, Inc. (See Ely, Alonzo B., assignor.)
Cortese, Nicola A., Bovey, Minn. Railway-frog. No. 1,398,420; Nov. 29.
Courchene, Henry B., Chicago, Ill. Toilet-seat cover. No. 1,398,318; Nov. 29.
Cox, Walter, Provo, Utah. Casement-window adjuster. No. 1,398,629; Nov. 29.
Crane, William H., Davenport, Iowa. Antiskid device for vehicle-wheels. No. 1,398,588; Nov. 29.
Cranston, John T., and W. D. Le Bar, Wyandotte, Mich. Electrolytic cell. No. 1,398,784; Nov. 29.
Crawford, Edgar J., assignor to J. E. Jordan, Seattle, Wash. Automatic speed control. No. 1,398,589; Nov. 29.
Cressler, Will T., Cincinnati, Ohio. Hand-stamp. No. 1,398,265; Nov. 29.
Cribben & Sexton Company. (See Harter, Augustus F., assignor.)
Crocker, Ernest B. (See Graessar, C. H., and Crocker.)
Cruse, George M., Stockton, Calif. Skull-cap frame and guide. No. 1,398,842; Nov. 29.
Cullen, Andrew, Massillon, Ohio. Guide-box for rolling-mills. No. 1,398,843; Nov. 29.
Culleny, Henriette. (See Johnson, F. D., and Culleny.)
Cummins, Norman W., assignor to The Bassick Company, Bridgeport, Conn. Hood-catch. No. 1,398,319; Nov. 29.
Cuper, John, Nelta, Ohio. Direction-indicator. No. 1,398,715; Nov. 29.
Curtis Aeroplane and Motor Corporation. (See Kirkham, Charles B., assignor.)
Curtis, Theron S., assignor to T. I. Smith Company, North Attleboro, Mass. Pin for holding soft collars. No. 1,398,483; Nov. 29.
Curtiss Aeroplane and Motor Corporation. (See Cawthra, Ernest H., assignor.)
Curry, Patrick, Chicago, Ill. Combined door-joint protector and name-plate for automobiles. No. 1,398,586; Nov. 29.
Damon, William H., Chicago, Ill. Polish and making the same. No. 1,398,891; Nov. 29.
Danforth, George L., Jr., Chicago, Ill. Ingot-stripping mechanism. No. 1,398,844; Nov. 29.
Daniels, Felix F., Jersey City, N. J. Snow-remover. No. 1,398,454; Nov. 29.
Davidson, Jacob, New York, N. Y. Sample-display device. No. 1,398,564; Nov. 29.
Davison, Daniel O. (See Trusty, J. F., and Davison.)
Davis, Robert H., London, England. Valve for controlling flow of gases. No. 1,398,845; Nov. 29.
Davis Sewing Machine Company, The. (See Meyer, William H., assignor.)
Dawe, Philip H., London, England. Electrical resistance apparatus. No. 1,398,630; Nov. 29.
Day, Schuyler E., New York, N. Y. Loose-leaf binder. No. 1,398,540; Nov. 29.
De Chairmont, Adolfo, Toledo, Ohio. Transmission-lock for motor-vehicles. No. 1,398,455; Nov. 29.
De Dragic, Theodore, and Albert Schwarz, assignors to U. S. Armor Corporation, New York, N. Y. Bullet-proof armor. No. 1,398,682 Nov. 29.
De Forest Radio Telephone and Telegraph Company. (See Gowen, Robert F., assignor.)
De Grazia, Samuel, Washington, D. C. Rubber heel. No. 1,398,631; Nov. 29.
Deam, Henry D., Benton Harbor, Mich., assignor of one-half to F. J. Petrovics, Chicago, Ill. Ship-salvaging apparatus. No. 1,398,541; Nov. 29.
Dean, Daniel A., Enid, Okla. Oil-distilling apparatus. No. 1,398,587; Nov. 29.
De Laval Separator Company, The. (See Hall, Selden H., assignor.)
De Olaneta, Harold, assignor to Winchester Repeating Arms Company, New Haven, Conn. Dry cell. No. 1,398,366; Nov. 29.
Denning, Ansel C., Johnson City, N. Y. Substitute material for making box-toes for shoes. (Reissue.) No. 15,235; Nov. 29.
Dennis, Arthur C., Seattle, Wash. Material-loading machine. No. 1,398,265; Nov. 29.
Detroit Battery Company. (See Bundy, Glenn J., assignor.)
Detroit Pressed Steel Company. (See Putnam, Alden L., assignor.)
Dewey, Haywood G., and F. H. Knapp, assignors to Fred H. Knapp Company, Westminster, Md. Labeling-machine. No. 1,398,421; Nov. 29.
Dougan, Kennedy, Minneapolis, Minn. Apparel-belt buckle. No. 1,398,632; Nov. 29.
Dougan, Kennedy, Minneapolis, Minn. Apparel-belt buckle. No. 1,398,633; Nov. 29.
Douglas, John J. (See Payne, L. M., Miller, and Douglas.)
Donaldson, James P. (See Barger, N. L., and Donaldson. (Reissue.)
Dorsey, Herbert G., Granville, Ohio. Telegraphy. No. 1,398,892; Nov. 29.
Dow Chemical Company, The. (See Jones, Coulter W., assignor.)
Downing, Ira S., and E. S. Pearce, Indianapolis, Ind. Journal-lubricating device. No. 1,398,502; Nov. 29.
Draper Corporation. (See Youngquist, Henry W., assignor.)
Dronsfield, James, Oldham, England. Means for applying garnett or like wire to rollers or cylindrical surfaces. No. 1,398,716; Nov. 29.
Dube, Harry S., New York, N. Y. Tire-cover. No. 1,398,259; Nov. 29.
Dubets, Louis L., Asnières, France. Tractor. No. 1,398,683; Nov. 29.
Dunham, Arthur L., New York, N. Y. Apparatus for and method of sterilizing milk-cans and other containers. No. 1,398,503; Nov. 29.
Dunaing, William F., Washington, D. C. Loose-leaf binder. No. 1,398,422; Nov. 29.
Dunstan, William E., Modesto, Calif. Valve-lifter. No. 1,398,456; Nov. 29.
Dunsworth, George W., Houston, Tex. Pipe-perforator. No. 1,398,320; Nov. 29.
Dura Construction Company. (See Hoenemann, Theodor H., assignor.)
Durkon Company Inc., The. (See Schenck, Pierce D., assignor.)
Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,398,846; Nov. 29.

Dye, Glen M., Minneapolis, Minn. Film-clip and order-tab holder. No. 1,398,423; Nov. 29.
Earle, Richard T., Portland, Oreg. Flour-sifter. No. 1,398,367; Nov. 29.
Eastman, Joseph P., assignor to Eastman Manufacturing Company, Manitowoc, Wis. Means and method for connecting tubing of dissimilar materials. No. 1,398,494; Nov. 29.
Eastman Kodak Company. (See Chapman, Albert K., assignor.)
Eastman Kodak Company. (See Clarke, Hans T., assignor.)
Eastman Kodak Company. (See Seel, Paul C., assignor.)
Eastman Kodak Company. (See Sulzer, Albert F., assignor.)
Eastman Kodak Company. (See Tessier, Julien, assignor.)
Eastman Manufacturing Company. (See Eastman, Joseph P., assignor.)
Eccard, John F., assignor to The Troy Wagon Works Company, Troy, Ohio. Steering device for vehicles. No. 1,398,588; Nov. 29.
Eckfeld, Charles B. (See Beber, Steven, assignor.)
Eggers, John H., Company. (See Steele, Herbert H., assignor.)
Eickhoff, Theodore H. (See Braden, William A., assignor.)
Ely, Alonzo B., assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting-machine. No. 1,398,321; Nov. 29.
Ely, Alonzo B., assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting-machine. No. 1,398,322; Nov. 29.
Enache, Cociu, Dallas, Tex. Door closer and check. No. 1,398,504; Nov. 29.
Endorf, Charles, Jr., assignor to The Burton Page Company, Chicago, Ill. Milking-machine. No. 1,398,368; Nov. 29.
Engel, Frank, assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Storage-battery cell. No. 1,398,847; Nov. 29.
Enfield Cycle Company, Limited, The. (See Smith, Robert W., assignor.)
Enterprise Railway Equipment Company. (See Campbell, Argyle, assignor.)
Erik, Emil, assignor of two-tenths to E. I. Quick, Ossining, and three-tenths to A. W. Harvey, New York, N. Y. Ground-gripper detachable tread. No. 1,398,893; Nov. 29.
Erné, George, Kreuzlingen, Switzerland. Door-lock. No. 1,398,369; Nov. 29.
Erskine-Murray, James and J. Robinson, Biggin Hill, England. Wireless receiving and transmitting apparatus. No. 1,398,848; Nov. 29.
Eustis, George P., Washington, D. C. Liquid-fuel vaporizer. No. 1,398,370; Nov. 29.
Evans, Morgan, Pittston, Pa. Vise-stand. No. 1,398,424; Nov. 29.
Fallenstein, Ernest H., Mankato, Minn., assignor of one-half to V. E. Gill, Boulder, Colo. Cableway excavating-bucket. No. 1,398,425; Nov. 29.
Faltin, Bernard P., Bareville, Pa. Quick-return pump-head gearing. No. 1,398,684; Nov. 29.
Farrel Foundry and Machine Company. (See Bowen, D. R. and Schnuck, assignors.)
Faulkner, James S., Petersburg, Va. Spark-cap attachment for spark-plugs. No. 1,398,457; Nov. 29.
Fedden, Alfred H. R. and Leonard F. G. Butler, assignors to The Bristol Aeroplane Company, Limited, Bristol, Gloucester County, England. Cylinder for internal-combustion engines. No. 1,398,849; Nov. 29.
Fidelity Machine & Manufacturing Co. (See Larkin, Walter, assignor.)
Fine, Lewis, assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa. Apparatus for assembling wire wheels. No. 1,398,227; Nov. 29.
Firestone Tire & Rubber Company, The. (See McDonald, Frank J., assignor.)
Firestone Tire and Rubber Company, The. (See Stevens, William C., assignor.)
Flintkote Company, The. (See Overbury, Frederick C., assignor.)
Fogwell, Harrison H., and John M. Morris, Los Angeles, Calif. Thermostat. No. 1,398,635; Nov. 29.
Foster, George, Bicknell, Ind. Mine-car-controlling mechanism. No. 1,398,896; Nov. 29.
Ford-Barger Machinery Co. (Reissue.) (See Barger, N. L., and Donaldson, assignors.)
Ford, Eugene A., Newton, Mass., assignor to R. H. D. Engine Company, Inc., New York, N. Y. Engine-drive. No. 1,398,260; Nov. 29.
Forlander, Morris, New York, N. Y. Lock. No. 1,398,630; Nov. 29.
Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Arrangement of heaters in electric ovens. No. 1,398,543; Nov. 29.
Fowler, Clarence B., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,398,592; Nov. 29.
Fox, Thomas S. (See Grover, J. P., and Fox.)
Francke Co., The. (See Francke, William J., assignor.)
Francke, William J., assignor to The Francke Co., Highland Park, N. J. Power-transmitting device. No. 1,398,773; Nov. 29.
Franco, Maurice, New York, N. Y. Weed-puller. No. 1,398,850; Nov. 29.
Fredriksson, John, Elizabeth, N. J., assignor to The Kalbfleisch Corporation, New York, N. Y. Producing highly-concentrated hydrochloric acid. No. 1,398,224; Nov. 29.
Fretter, Nathan F., Cleveland, Ohio. Turret-lathe. No. 1,398,225; Nov. 29.
Fretter, Nathan F., Cleveland, Ohio. Lathe. No. 1,398,226; Nov. 29.
Freyder, Frank X., Iowa City, Iowa. Combination-tool. No. 1,398,223; Nov. 29.
Fried. Krupp Aktiengesellschaft. (See Bartholdy, Max, assignor.)
Fried. Krupp Aktiengesellschaft. (See Klobe, Werner, assignor.)
Fried. Krupp Aktiengesellschaft. (See Sundhaussen, Hermann, assignor.)
Fried. Krupp Aktiengesellschaft. (See Vollmer, John, assignor.)
Fried. Krupp Aktiengesellschaft. (See von Appen, August, assignor.)
Fuchs-Mauter, Carolina, Zurich, Switzerland. Hair-undulator. No. 1,398,637; Nov. 29.
Fuld, Katherine B., assignor to W. Fuld, Baltimore, Md. Figure wheeled toy. No. 1,398,426; Nov. 29.
Fuld, William. (See Fuld, Katherine B., assignor.)
Fuld, William. (See Knowles, Frank, assignor.)
Furber, Frederick M., Revere, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Grinding apparatus. No. 1,398,295; Nov. 29.
Fürst, Alexander, assignor of one-half to C. E. Pobe, New York, N. Y. Automobile-radiator. No. 1,398,774; Nov. 29.
Gable, Benjamin F., San Francisco, Calif. Bath combination and nozzle. No. 1,398,841; Nov. 29.
Gaede, Frans, Fort Wuerttemberg, near Metz, Germany. Drip-guard for brushes. No. 1,398,894; Nov. 29.
Galebach, Edwin R., Lebanon, Pa. Cotter-pin extractor. No. 1,398,542; Nov. 29.
Garbe, Lester G., San Francisco, Calif. Frame for printers' form. No. 1,398,544; Nov. 29.
Garven, Elmer, Coulterville, Ill. Paint-pail-supporting device. No. 1,398,551; Nov. 29.
Geisler, Hugo P., New York, N. Y. Metal container. No. 1,398,261; Nov. 29.
General Railway Signal Company. (Reissue.) (See Howe, Winthrop K., assignor.)
George Heard, Paris, France. Mercury-lamp. No. 1,398,545; Nov. 29.
Gerhart, Bayless W., assignor to United States Spray Company, San Bernardino, Calif. Tree-spray. No. 1,398,505; Nov. 29.
Gerleman, Oscar W., St. Louis, Mo. Treating cylinders and pistons. No. 1,398,775; Nov. 29.
Gilbert, Albert P., Durham, N. C. Building toy. No. 1,398,852; Nov. 29.
Gill, Vergil E. (See Fallenstein, Ernest H., assignor.)
Gillen, Daniel A., Flushing, N. Y. Non-siphonable trap. No. 1,398,427; Nov. 29.
Gillette, Edward E., Bloomfield, N. J. Fishing appliance. No. 1,398,717; Nov. 29.
Ginsbourg, Leo, Jersey City, N. J. Range-finder. No. 1,398,853; Nov. 29.
Glasser, Charles T. (See Whitmore, H. G., and Glasser.)
Gleason, James E., trustee. (See Tibbetts, Milton, assignor.)
Goder, Joseph, Chicago, Ill. Incinerator. No. 1,398,718; Nov. 29.
Goedeke, Frederick W., Evansville, Ind. Corner-iron for baskets, boxes, &c. No. 1,398,571; Nov. 29.
Goforth, James E., Des Moines, Iowa. Sewing-machine. No. 1,398,540; Nov. 29.
Gorgues, Charles J., Worcester, and J. J. Provost, Auburn, Mass., assignors to Brown & Sharpe Manufacturing Company, Providence, R. I. Micrometer taper gage. No. 1,398,296; Nov. 29.
Golle, Edward A., Grand Beach, Mich. Corn-planter. No. 1,398,428; Nov. 29.
Gordon, John A., assignor of one-half to C. E. Hose, Kansas City, Mo. Air-filter. No. 1,398,685; Nov. 29.
Gourlay, Clarence H. and W. E., Jamaica, N. Y. Combination-lock. No. 1,398,509; Nov. 29.
Gourlay, Walter E. (See Gourlay, Clarence H. and W. E.)
Gowen, Robert F., assignor to De Forest Radio Telephone and Telegraph Company, New York, N. Y. Coil-mounting. No. 1,398,872; Nov. 29.
Graesser, Carl H., Fairfield, and E. B. Crocker, Stratford, Conn., assignors to Manning, Maxwell, & Moore, Inc., New York, N. Y. Retaining device for gage-cases. No. 1,398,273; Nov. 29.
Graf, Henry G., Toledo, Ohio, assignor to American Can Company, New York, N. Y. Shipping-container. No. 1,398,686; Nov. 29.
Graham, Frank Lee, Jr., Seattle, Wash. Lock for mail-bags. No. 1,398,683; Nov. 29.
Graham, Joseph A., Alhaman, Iowa. Draft attachment. No. 1,398,547; Nov. 29.
Grant, John A. (See Clarke, William L., Jr., assignor.)
Gravell, James H., Elkins Park, Pa. Method of and composition for cleaning metals. No. 1,398,507; Nov. 29.
Gray & Davis Inc. (See Wackwitz, Ernest F., assignor.)

Gray, Budd D., Greenwich, Conn., assignor to American Thermophone Company, Boston, Mass. Thermophone. No. 1,398,697; Nov. 29.
Gray, Frank, Philadelphia, Pa. Damper-regulator. No. 1,398,695; Nov. 29.
Gray, James E., Newton, Iowa. Controlling device for automobile-headlights. No. 1,398,263; Nov. 29.
Gray, Robert E. (See Rogers, G. L., and Gray.)
Green, Ellyson, Winterset, Iowa. Chain tightening and releasing device. No. 1,398,548; Nov. 29.
Greenwald, Isidor, New York, N. Y. Escapement for time-pieces. No. 1,398,776; Nov. 29.
Grover, J. P., New York, and T. S. Fox, Brooklyn, N. Y. Film-holding device. No. 1,398,458; Nov. 29.
Grigsby, Bertram J., Chicago, Ill. Attachment plug. No. 1,398,228; Nov. 29.
Grosebi, Joseph A., New York, N. Y. Embroidering mechanism. No. 1,398,590; Nov. 29.
Grooms, John, Atlanta, Ga. Folding chair. No. 1,398,854; Nov. 29.
Grossenbacher, Ernest, Fajardo, Porto Rico. Automatic valve for oil-burners. No. 1,398,549; Nov. 29.
Gunther, George E., St. Paul, Minn. Garden-tractor. No. 1,398,777; Nov. 29.
Gustafson, Adolph P., assignor to M. Schuls Co., Chicago, Ill. Bellows for pneumatically-operated musical instruments. No. 1,398,730; Nov. 29.
Gustus, John A., Detroit, Mich. Latch. No. 1,398,374; Nov. 29.
Haddeid, Robert A., Westminster, and A. G. McK. Jack, Sheffield, England. Armor-piercing projectile. No. 1,398,229; Nov. 29.
Haeaner, Charles T., Cleveland, Ohio. Non-skid device. No. 1,398,719; Nov. 29.
Hale, Frederick F., Medford, Mass. Detachable valve-handle. No. 1,398,263; Nov. 29.
Hale, William E., Fort Washington, assignor to R. H. Beaumont Company, Philadelphia, Pa. Rope-sheave and support. No. 1,398,855; Nov. 29.
Hale, William E., Fort Washington, assignor to R. H. Beaumont Company, Philadelphia, Pa. Drag-scraping apparatus. No. 1,398,627; Nov. 29.
Hall, Selden H., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Milking machinery. No. 1,398,220; Nov. 29.
Halvorsen, Halbert E., Chicago, Ill., assignor to Sullivan Machinery Company. Air-lift booster. No. 1,398,550; Nov. 29.
Hamilton, Belton T., London, England. Gun mounting and sighting apparatus. No. 1,398,688; Nov. 29.
Hamilton, William H. W., Baker, Oreg. Check-book. No. 1,398,508; Nov. 29.
Hammond, John H., Jr., Gloucester, Mass. Range-finder. No. 1,398,509; Nov. 29.
Hammond, John H., Jr., Gloucester, Mass. Steering-control. No. 1,398,510; Nov. 29.
Hanrath, Theodore W., Chicago, Ill. Game device. No. 1,398,511; Nov. 29.
Hansen, Christian H., Norfolk, Va. Time-record folder. No. 1,398,231; Nov. 29.
Hanagirg, Fritz, Gratz, Austria. Fractionate distillation. No. 1,398,856; Nov. 29.
Hanson, Gustaf W., Wichita, Kans. Boring-drill. No. 1,398,551; Nov. 29.
Harradine, Robert W., Bondi, New South Wales, Australia. Fishing-reel. No. 1,398,429; Nov. 29.
Harris, Arthur W., Sleepy Eye, Minn. Clutch mechanism. No. 1,398,562; Nov. 29.
Harter, Augustus F., Oak Park, assignor to Cribben & Sexton Company, Chicago, Ill. Hot-air furnace. No. 1,398,264; Nov. 29.
Hart, Harry S., assignor to Rodger Ballast Car Company, Chicago, Ill. Dump-car. No. 1,398,375; Nov. 29.
Hart, Harry S., Chicago, Ill. Railway-car construction. No. 1,398,512; Nov. 29.
Hartog, Stephen D., St. Louis, Mo. Piston for reciprocatory engines. No. 1,398,689; Nov. 29.
Hartog, Stephen D., St. Louis, Mo. Piston. No. 1,398,690; Nov. 29.
Harvey, Alden W., et al. (See Erik, Emil, assignor.)
Haseltine, Stacy B., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,398,691; Nov. 29.
Haseltine, Stacy B., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,398,692; Nov. 29.
Hauck, Arthur E., deceased, New York, N. Y. Adolph H. Stein, executor. Suction-torch. No. 1,398,553; Nov. 29.
Hawkins, Thomas, Derry, assignor to W. B. Severance, Manchester, N. H. Setting-rack. No. 1,398,778; Nov. 29.
Hawley, William G., assignor to American La France Fire Engine Company, Inc., Elmira, N. Y. Friction-clutch. No. 1,398,554; Nov. 29.
Hayden, Louis S., Essex, assignor to The Connecticut Valley Manufacturing Company, Centerbrook, Conn. Tool for boring and counterboring wood. No. 1,398,779; Nov. 29.
Hayden, Louis S., Essex, assignor to The Connecticut Valley Manufacturing Company, Centerbrook, Conn. Extension boring-bit. No. 1,398,780; Nov. 29.
Healy, James A., Brooklyn, N. Y. Pneumatic-tire tread. No. 1,398,513; Nov. 29.
Healy, James A., Brooklyn, N. Y. Amusement apparatus. No. 1,398,514; Nov. 29.
Heintz, Ernest E., assignor to Ternstedt Manufacturing Company, Detroit, Mich. Window-regulator. No. 1,398,693; Nov. 29.
Heinrich, Walter A. (See Matthews, C. L., and Heinrich.)
Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, Systems of control for induction-machines. No. 1,398,515; Nov. 29.
Hemenway, Walter G., Los Angeles, Calif. Carburetor. No. 1,398,459; Nov. 29.
Heuritzy, George S., Hazleton, Pa. Flag. No. 1,398,555; Nov. 29.
Hentschke, Paul, Los Angeles, Calif. Internal-combustion engine. No. 1,398,430; Nov. 29.
Henry, Robert G. (See Bayrer, William J., assignor.)
Herbener, John H., Norfolk, Va. Flag. No. 1,398,376; Nov. 29.
Hermann, Charles A., Milwaukee, Wis. Mattress or the like. No. 1,398,297; Nov. 29.
Hermansson, Aaron, Rockford, Ill. Easel. No. 1,398,516; Nov. 29.
Hershey, Madeline M., Los Angeles, Calif. Garment. No. 1,398,720; Nov. 29.
Hicks, Charles E. and W. G., Mechanicsville, N. Y. Flying-machine. No. 1,398,781; Nov. 29.
Hicks, William G. (See Hicks, Charles E. and W. G.)
Higbee, Glenn A., Detroit, Mich. Fishing-reel. No. 1,398,721; Nov. 29.
Himmelspach, John A., Saginaw, Mich. Detachable diaphragm for gas-meters. No. 1,398,722; Nov. 29.
Hindahl, David, assignor to Rodger Ballast Car Company, Chicago, Ill. Dump car. No. 1,398,517; Nov. 29.
Hineline, Edson S., Apponaug, assignor to Hineline Engineering Company, Providence, R. I. Stop-motion for knitting-machines. No. 1,398,694; Nov. 29.
Hineline Engineering Company. (See Hineline, Edson S., assignor.)
Hines, Ellen V. (See Hines, Warren H., assignor.)
Hines, Warren H., assignor of forty-nine one-hundredths to E. V. Hines, Flint, Mich. Vehicle-wheel. No. 1,398,265; Nov. 29.
Hipwell, Harry H., Pittsburgh, Pa. Flashlight-battery. No. 1,398,518; Nov. 29.
Hirtz, Edwin, Paris, France. Sample-card. No. 1,398,431; Nov. 29.
Hitchcock, Harry W., New York, N. Y., assignor to American Telephone and Telegraph Company. Electrical indicating and measuring device. No. 1,398,266; Nov. 29.
Hixon, Fred A., et al. (See Jones, Edward S., assignor.)
Hoenemann, Theodor E., assignor to Dura Construction Company, Boston, Mass. Machine for making concrete blocks. No. 1,398,898; Nov. 29.
Hoffenberg, Maurice J., New Haven, Conn. Skate-fastener. No. 1,398,857; Nov. 29.
Hoffmann, Loran L. (See Smith, Samuel C., assignor.)
Hogan, Thomas I. (See Reid, James H., assignor.)
Hohnsbeen, George H., assignor of three-fifths to J. D. Brown, Minneapolis, Minn. Memorandum-file. No. 1,398,501; Nov. 29.
Hohnsbeen, George H., assignor of three-fifths to J. D. Brown, Minneapolis, Minn. Memorandum-file. No. 1,398,502; Nov. 29.
Holding, Chester, New Richmond, Wis. Hog-holding device. No. 1,398,484; Nov. 29.
Holmes, Edward. (See Lightner, A. D., and Holmes.)
Holt, J. A. B. (See Matson, Edgar C., assignor.)
Hopkins, Mathew. (See Kirby, J., Hopkins, and Bernhart.)
Hopkins, Richard M., Rutherford, assignor to American District Telegraph Company, Jersey City, N. J. Alarm system. No. 1,398,593; Nov. 29.
Hopkins, Richard M., Rutherford, assignor to American District Telegraph Company, Jersey City, N. J. Transmitter. No. 1,398,594; Nov. 29.
Hopp, Hermann. (See Hopp, Leo and H.)
Hopp, Leo and H., New York, N. Y. Price-ticket holder. No. 1,398,782; Nov. 29.
Hornsey, John W., Summit, N. J. Leaching ores and the like. No. 1,398,728; Nov. 29.
Hosch, Greene C., St. Louis, Mo. Hanger. No. 1,398,519; Nov. 29.
Hose, Charles E. (See Gordon, John A., assignor.)
Hosmer, Ralph B., San Francisco, Calif. Sofa-bed. No. 1,398,524; Nov. 29.
House, Herbert B., Pasadena, assignor to C. S. Potter and W. T. Potter, Los Angeles, Calif., partners. Kaleidoscope. No. 1,398,858; Nov. 29.
Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Automatic train-control system. (Reissue.) No. 15,236; Nov. 29.
Howgate, Alfred, Riddlesden, Keighley, England. Apparatus for use in annealing or otherwise treating metals. No. 1,398,520; Nov. 29.
Hoyt, Adrian H., deceased, Penacook, N. H.; W. C. Hoyt, administrator. Means for calibrating ammeters. No. 1,398,505; Nov. 29.
Hoyt, Frederick A. (See Kliesrath, V. W., and Hoyt.)
Hoyt, Frederick A., assignor to The Simms Magneto Company, East Orange, N. J. Magneto. No. 1,398,485; Nov. 29.
Hoyt, Wallace C., administrator. (See Hoyt, Adrian H.)
Huart, Frank, et al. (See Becker, Hugo A., assignor.)
Hughes, Francis P., Atlanta, Ga. Fuel-mixer. No. 1,398,290; Nov. 29.
Hughes, Harry C., Cincinnati, Ohio. Valve-grinding tool. No. 1,398,577; Nov. 29.

Hughes, James T., et al. (See Anderson, Charles H., assignor.)
Hull, John W., assignor of one-fourth to H. D. Mantes, San Antonio, Tex. Wall-block. No. 1,398,695; Nov. 29.
Hunkins, William S., Los Angeles, Calif. Hose-supporter. No. 1,398,487; Nov. 29.
Hunkins, William S., Los Angeles, Calif. Hose-supporter. No. 1,398,488; Nov. 29.
Hunkins, William S., Los Angeles, Calif. Hose-supporter. No. 1,398,486; Nov. 29.
Hunter, Robert A. (See Carson, H. L., and Hunter.)
Hurtig, Paul H., and C. H. Menton, Katrineholm, Sweden. Motor plow or cultivator. No. 1,398,859; Nov. 29.
Hussey, John M., Wichita, Kans. Freezing and preserving eggs. No. 1,398,860; Nov. 29.
Hydraulic Pressed Steel Company, The. (See Tait, William S., assignor.)
Hynes, Lee P., assignor to Consolidating Car-Heating Company, Albany, N. Y. Electric car-heating system. No. 1,398,521; Nov. 29.
Hynes, Lee P., assignor to Consolidated Car Heating Company, Albany, N. Y. Electric car-heater. No. 1,398,522; Nov. 29.
Ingersoll, Howard L. (See Brown, Ray M., assignor.)
International Equipment Company. (See Kendrick, Arthur, assignor.)
Irvin, William C., San Francisco, Calif. Metallic shipping-barrel. No. 1,398,296; Nov. 29.
Ivory, James W., Philadelphia, Pa. Nut lock or fastener. No. 1,398,325; Nov. 29.
James Johnson Hodgkinson and Pearson Limited. (See Taylor, Percival, assignor.)
Jack, Alexander G. M. (See Hadfield, Robert A., assignor.)
Jacoby, Raymond W., Garnerville, N. Y., assignor to Rockland Finishing Co., Inc. Cotton product and making the same. No. 1,398,578; Nov. 29.
Jacobsky, Maxim, New York, N. Y. Locking device for operating handles. No. 1,398,232; Nov. 29.
Jagdmann, Karl E. W., Stockholm, Sweden. Building-blocks. (Reissue.) No. 15,237; Nov. 29.
Jardine, James L., Penicuik, Scotland, assignor to Bamboo Paper Company, Limited, London, England. Apparatus for preparing bamboo and kindred material for pulp extraction. No. 1,398,261; Nov. 29.
Jean, Wilfrid, Lowell, Mass. Valve. No. 1,398,482; Nov. 29.
Jeffrey Manufacturing Company, The. (See Richards, Ray S., assignor.)
John, Adam, Boston, Mass. Cushion-tire. No. 1,398,862; Nov. 29.
Johnson, Asa, Dayton, Tenn. Two-wheel road-grader and field-ditcher. No. 1,398,326; Nov. 29.
Johnson, Bradley S., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,398,696; Nov. 29.
Johnson, Clyde A., San Diego, Calif. Gradometer. No. 1,398,433; Nov. 29.
Johnson, Frederick D., and H. Culleny, Baltimore, Md. Auxiliary automobile license-tag. No. 1,398,489; Nov. 29.
Johnson, George A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Reinforced end for box-cars. No. 1,398,697; Nov. 29.
Johnston, William H., Lorain, Ohio, assignor to National Tube Company, Pittsburgh, Pa. Dumping-trough-cover-operating mechanism. No. 1,398,863; Nov. 29.
Jones, Coulter W., assignor to The Dow Chemical Company, Midland, Mich. Making hydrobromic acid and apparatus therefor. No. 1,398,556; Nov. 29.
Jones, Edward S., assignor of one-tenth to F. A. Hixon, one-tenth to G. Kilborn, and one-tenth to G. S. Bournous, Mobile, Ala. Automatic life-saving fender for automobiles. No. 1,398,434; Nov. 29.
Jordan, J. Eugene. (See Crawford, Edgar J., assignor.)
Kalbfleisch Corporation, The. (See Fredrickson, John, assignor.)
Kane, Robert, Humboldt, Ill. Hayrack-lifter. No. 1,398,490; Nov. 29.
Keller Pneumatic Tool Company. (See Keller, W. H., and Schinkes, assignors.)
Keller, William H., and A. Schinkes, assignor to Keller Pneumatic Tool Company, Grand Haven, Mich. Piston-rod toggle for fluid-pressure motors. No. 1,398,527; Nov. 29.
Keller, William H., and A. Schinkes, assignor to Keller Pneumatic Tool Company, Grand Haven, Mich. Piston-rod toggle for fluid-pressure motors. No. 1,398,528; Nov. 29.
Kelly, Martha E., Mill Hall, Pa. Scrub-brush. No. 1,398,865; Nov. 29.
Kendall, Carl W., Edgewater Heights, N. J., assignor to Columbia Machine & Stopper Co., Inc., New York, N. Y. Feeding device for sealing-disks. No. 1,398,724; Nov. 29.
Kendrick, Arthur, Newton, assignor to International Equipment Company, Boston, Mass. Laundry-drier. No. 1,398,480; Nov. 29.
Kennedy, Walter, Pittsburgh, Pa. Cover for soaking-pits and mechanism for shifting same. No. 1,398,900; Nov. 29.
Kenyon, C., Company Inc. (See Phelps, Harry B., assignor.)
Kerr, Charles V., assignor to The American Well Works, Aurora, Ill. Steam-turbine. No. 1,398,441; Nov. 29.
Kilmarth, Victor W., and F. A. Hoyt, assignors to The Simms Magneto Company, East Orange, N. J. Ignition apparatus for internal-combustion engines. No. 1,398,481; Nov. 29.
Kiewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Guard for starting mechanism of sewing-machines. No. 1,398,823; Nov. 29.
Kilborn, George, et al. (See Jones, Edward S., assignor.)
Kinch, George E., Quirindi, New South Wales, Australia. Automatic opening mechanism for closet-seat lids. No. 1,398,556; Nov. 29.
King, John G., Pine Bluff, Ark. Stop or waste cock. No. 1,398,529; Nov. 29.
King, John L., assignor to Rotary King Safety Razor Company, New York, N. Y. Safety-razor. No. 1,398,579; Nov. 29.
Kirby, John, M. S. Hopkins, and C. B. Bernhart, Reading, Pa. Preparation of lead arsenate. No. 1,398,267; Nov. 29.
Kirkham, Charles B., Nassau Boulevard, assignor to Curtis Aeroplane and Motor Corporation, Buffalo, N. Y. Radiator for airplanes. No. 1,398,880; Nov. 29.
Knapp, Frederick H. (See Dewey, H. G., and Knapp.)
Knapp, Fred. H., Company. (See Dewey, H. G., and Knapp, assignors.)
Kneier, Joseph, assignor to H. J. Trenkamp, Cleveland, Ohio. Convertible stove-oven. No. 1,398,725; Nov. 29.
Knowles, Frank, West Englewood, N. J., assignor to William Fuld, Baltimore, Md. Fortune-telling device. No. 1,398,462; Nov. 29.
Koch, Otto L., Jr., Woodlynne, N. J. End-binder for the record-sheets of player-pianos. No. 1,398,901; Nov. 29.
Koehler, Carl W., assignor to Booth Fisheries Company, Chicago, Ill. Smokehouse. No. 1,398,726; Nov. 29.
Kohler, Ernest, Denver, Colo., assignor to The United Mines and Manufacturing Company. Amusement device (circling-whip). No. 1,398,880; Nov. 29.
Kolbe, Werner, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Printing device for registering cash and the like. No. 1,398,435; Nov. 29.
Kontosky, Robert, Rochester, N. Y. Work-support for shoe-milling machines. No. 1,398,557; Nov. 29.
Kosinsky, Theodore, Toledo, Ohio. Combination device. No. 1,398,727; Nov. 29.
Krueger, William F., Chicago, Ill. Pulley-casing. No. 1,398,783; Nov. 29.
Kuc, Wasyl, Winnipeg, assignor of one-half to J. Zarowsky, Fisher Branch, Manitoba, Canada. Padlock. No. 1,398,280; Nov. 29.
Kuhl, George H., assignor to Automatic Electric Company, Chicago, Ill. Voice-current telephone repeater. No. 1,398,728; Nov. 29.
Kulikoff, Andy, Pittsburgh, Pa. Padlock. No. 1,398,233; Nov. 29.
La Fleur, Benjamin S., Haverhill, assignor to The Reece Button Hole Machine Company, Boston, Mass. Machine for rough-rounding and lasting stitched-down shoes. No. 1,398,524; Nov. 29.
La Manufacture de Produits Chimiques du Nord Etablissements Kuhlmann. (See Pascal, Paul, assignor.)
La Pointe, William R., Columbus, assignor to H. E. Vance, Powell, Ohio. Electric fuse. No. 1,398,436; Nov. 29.
Leacht, Richard T., Milwaukee, Wis. Animal-cover. No. 1,398,881; Nov. 29.
Lachman, Laurence S. (See Lachman, Maurice and L. S.)
Lachman, Maurice and L. S., New York, N. Y., assignor to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,398,558; Nov. 29.
Lackawanna Steel Company. (See Boardman, Charles S., assignor.)
Lambert, Alvin R. (See Lambert, John W. and A. R.)
Lambert, John W. and A. R., Anderson, Ind. Chain-tread tractor. No. 1,398,882; Nov. 29.
Lampessis, Gust, Milwaukee, Wis. Cigar and cigarette holder. No. 1,398,559; Nov. 29.
Lancaster, John B., Philadelphia, Pa. Tile. No. 1,398,698; Nov. 29.
Lance, Robert D., Livry, France, assignor of one-half to C. Shrager, London, England. Artificial silk. No. 1,398,525; Nov. 29.
Landis, Harry A., Red Lion, Pa. Combination angle-tool. No. 1,398,234; Nov. 29.
Landis, Paul, Zurich, Switzerland. Carbureter. No. 1,398,640; Nov. 29.
Larkin, Walter, assignor to Fidelity Machine & Manufacturing Co., Philadelphia, Pa. Knitting-machine construction. No. 1,398,865; Nov. 29.
Larson, Levi L., Los Angeles, Calif. Air-pump. No. 1,398,908; Nov. 29.
Lasar, Walter, Fort Wayne, Ind. Aeroplane. No. 1,398,729; Nov. 29.
Lauth, Clarence H., London, England. Electric cooking or heating vessel and apparatus. No. 1,398,906; Nov. 29.
Lauth, Clarence H., London, England. Electric cooking or heating vessel and apparatus. No. 1,398,907; Nov. 29.
Lauth, Clarence H., London, England. Electrically-heated liquid-heater. No. 1,398,903; Nov. 29.

Le Bar, William D. (See Cranston, J., and Le Bar.)
Le Roy, Gustave L., Kansas City, Mo. Screen. No. 1,398,869; Nov. 29.
Learmont, William H., Kala, Mich. Vehicle-signal. No. 1,398,441; Nov. 29.
Leddell, William A., assignor to The Mine and Smelter Supply Company, Denver, Colo. Making grate-bars. No. 1,398,492; Nov. 29.
Lee, Thomas L., assignor to North East Electrical Company, Rochester, N. Y. Electromagnetic instrument. No. 1,398,443; Nov. 29.
Lee, William B., Seattle, Wash. Nozzle. No. 1,398,868; Nov. 29.
Legendre, Ovide, assignor to T. C. Sheldon, Fitchburg, Mass. Shuttle-positioner. No. 1,398,699; Nov. 29.
Leighton, Fred W., Rockwood, Me. Revolving hay stower or slide. No. 1,398,437; Nov. 29.
Lewis, Lloyd V., Edgewood borough, assignor to Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,398,388; Nov. 29.
Lewis, Rollin C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Dial-lock. No. 1,398,642; Nov. 29.
Lightner, Arthur D., and B. Holmes, assignor to The Willys-Overland Company, Toledo, Ohio. Hoisting apparatus. No. 1,398,331; Nov. 29.
Linley, Archie J., Lodi, Calif. Railway-switch-throwing device. No. 1,398,332; Nov. 29.
Linscott, Otis K., Tekoa, Wash. Pocket check-protector. No. 1,398,235; Nov. 29.
Lipska, Edward, Fennimore, Wis. Gate. No. 1,398,870; Nov. 29.
Littleton, Clay, Hopewell, Va. Treating and recovery for resue oils, resins, gums, &c., which have been hardened. No. 1,398,438; Nov. 29.
Livingston, Robert L., Williamsport, Pa. Dividers. No. 1,398,871; Nov. 29.
Lloyd, Arthur H., Coventry, England. Lathe. No. 1,398,781; Nov. 29.
Lockett, George H. B., Gisborne, New Zealand. Artificial tooth. No. 1,398,560; Nov. 29.
Loeser, Leo, Buffalo, N. Y. Foot-warmer for car-platforms. No. 1,398,884; Nov. 29.
Loftus, Edward M., St. Paul, Minn. Pliers. No. 1,398,904; Nov. 29.
Loomis, Harold S., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Interlocking apparatus for the control of railway-switches. No. 1,398,755; Nov. 29.
Lowndes, Loftus, Dublin, Ireland. Sash-cord fastener. No. 1,398,561; Nov. 29.
Lundgren, Jacob, Philadelphia, Pa., assignor to Carlson-Weastrom Co. Balancing-machine. No. 1,398,333; Nov. 29.
Lunken, Edmund H. (See Stickle, Frederick A., assignor.)
Luplow, Ronald, Phoenix, Ariz. Automobile-lock. No. 1,398,905; Nov. 29.
Lutsky, Harry, Stapleton, N. Y. Auxiliary fuel-tank for motor-vehicles. No. 1,398,334; Nov. 29.
Lux Clock Manufacturing Company. (See Lux, Paul, assignor.)
Lux, Paul, assignor to Lux Clock Manufacturing Company, Inc., Waterbury, Conn. Clock-frame. No. 1,398,597; Nov. 29.
Luzy, Antoine, Paris, France. Electromagnetic apparatus intended to magnetize permanent magnets. No. 1,398,526; Nov. 29.
Lynch Glass Machinery Company. (See Bridges, Edward G., assignor.)
Lynch, James B., Syracuse, N. Y. Non-collapsible tire. No. 1,398,700; Nov. 29.
L-W-F Engineering Company, Inc. (See Thomas, Stephen, assignor.)
Lyster, Herman S., Indianapolis, Ind. Tire-protecting antiskid appliance. No. 1,398,732; Nov. 29.
MacLachlan, John C., assignor to Standard Food Products Company, St. Paul, Minn. Desiccating fluid mixtures. No. 1,398,735; Nov. 29.
MacLachlan, John C., assignor to Standard Food Products Company, St. Paul, Minn. Powdered meat product. No. 1,398,464; Nov. 29.
MacPherson, Warren, Cambridge, Mass. Elastic step-mat. No. 1,398,701; Nov. 29.
Mader, Joseph, Philadelphia, Pa., assignor to S. L. Allen & Co., Inc. Support for tractor steering-handles. No. 1,398,301; Nov. 29.
Mader, Joseph, Philadelphia, Pa., assignor to S. L. Allen & Co., Inc. Tractor steering-gear. No. 1,398,302; Nov. 29.
Madsen, Rasmus H., Los Angeles, Calif. Lawn-mower grinder. No. 1,398,906; Nov. 29.
Mager, James, 2d. (See McCollum, Alfred F., assignor.)
Maggi, Desiderio, Philadelphia, Pa. Boat lifting and launching mechanism. No. 1,398,702; Nov. 29.
Maloney, Michael D., Hadlock, Wash. Mechanical brake. No. 1,398,875; Nov. 29.
Manning, Maxwell, & Moore. (See Graesser, C. H., and Crocker, assignors.)
Manton, Henry D. (See Hull, John W., assignor.)
Markkula, Matt, Fort Bragg, Calif. Stake for flat-cars. No. 1,398,441; Nov. 29.
Martin, Haakon A., Christiania, Norway, assignor to The National Cash Register Company, Dayton, Ohio. Railway-ticket-issuing machine. No. 1,398,562; Nov. 29.
Mathis, Henry, Virginia, Minn. Chain-repair tool. No. 1,398,676; Nov. 29.
Matson, Edgar C., Handley, assignor of one-half to J. A. B. Holt, Pratt, W. Va. Thread holder and tensioner. No. 1,398,877; Nov. 29.
Matthews, Claude L., and W. A. Heinrich, assignors to W. N. Matthews and Brother, Inc., St. Louis, Mo. Safety-fuse switch-box. No. 1,398,335; Nov. 29.
Matthews, W. N., and Brother. (See Matthews, C. L., and Heinrich, assignors.)
Mattson, Ivar, Fairfield, Iowa. Animal-feeding device. No. 1,398,238; Nov. 29.
Maunders, Charles, Chilco, British Columbia, Canada. Device for supporting washers while upsetting the operative bolts or rivets. No. 1,398,365; Nov. 29.
Mayer, Waldemar F., Philadelphia, Pa., assignor to Taylor-Wharton Iron and Steel Company, Highbridge, N. J. Rotary pump or motor. No. 1,398,788; Nov. 29.
Measuregraph Company, The. (See Pedersen, Johannes Th., assignor.)
Mecky, A., Company. (See Mottlau, August J., assignor.)
Menton, Christian H. (See Hurtig, P. H., and Menton.)
Metcalf, Benjamin A. (See Nelson, Leon J., assignor.)
Meyer, Frederick, East Northport, N. Y. Collapsible core. No. 1,398,236; Nov. 29.
Meyer, William H., St. Louis, Mo., assignor, by mesne assignments, to The Davis Sewing Machine Company. Drain-pan for clothes-wringer. No. 1,398,837; Nov. 29.
McCollum, Alfred F., assignor of three-fifths to James Magee, 2d, Bloomsburg, Pa. Shuttle for sewing-machines. No. 1,398,872; Nov. 29.
McConoughey, Oscar H., San Francisco, Calif. Railway-rail and tie fastener, bed-plate, and anticreeping device. No. 1,398,885; Nov. 29.
McDaniel, Newton M., Carlton, assignor of one-half to C. L. Starr, Portland, Oreg. Non-skid attachment for vehicles. No. 1,398,942; Nov. 29.
McDonald, Frank J., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Edge-turning machine. No. 1,398,786; Nov. 29.
McFillen, Harry H., Toledo, Ohio. Multiple stamp. No. 1,398,733; Nov. 29.
McGahan, Frederick L., deceased, Los Angeles, Calif.; V. K. Walker, administratrix. Treating and handling products of combustion. No. 1,398,734; Nov. 29.
McGill, George F., Chicago, Ill. Change-maker. No. 1,398,299; Nov. 29.
McKee, Arthur G., Cleveland, Ohio. Apparatus for cleaning gases. No. 1,398,598; Nov. 29.
McLean, Charles W., Shavertown, N. Y. Milk-cooler. No. 1,398,787; Nov. 29.
McMaster, Frederick K., Birriwa, near Mudgee, New South Wales, Australia. Piston-ring. No. 1,398,439; Nov. 29.
McNames, William, Aberdeen, S. D. Automobile-check. No. 1,398,440; Nov. 29.
McNally, Stanley L. and J. D. Wilson, Scranton, Pa. Expanding device for pistons and plungers. No. 1,398,873; Nov. 29.
McNally, Thomas and W. S. Orr, assignors to The Central Steel Company, Massillon, Ohio. Hot top for ingot-molds. No. 1,398,874; Nov. 29.
McRae, Finlay A., Montreal, Quebec, Canada. Railway-car. No. 1,398,886; Nov. 29.
McVeety, Charles, Cheltenham, Pa. Means for promoting combustion. No. 1,398,300; Nov. 29.
Michaels, John, Westmount, Quebec, Canada. Desk. No. 1,398,227; Nov. 29.
Micucci, Nicalo, Philadelphia, Pa. Rewinding mechanism for talking-machines. No. 1,398,879; Nov. 29.
Mikolasek, Venceslaus F., Lankin, N. D. Ignition control. No. 1,398,789; Nov. 29.
Miller, Charles F., Columbus, Ohio. Stool. No. 1,398,985; Nov. 29.
Miller, Lee A. (See Payne, L. M., Miller, and Douglas.)
Miller, Robert W., Wilmington, Del. Resilient wheel. No. 1,398,880; Nov. 29.
Miller Rubber Company, The. (See Brucker, Ferdinand F., assignor.)
Mine and Smelter Supply Company, The. (See Leddell, William A., assignor.)
Miner, William H. (See Haseltine, Stacy B., assignor.)
Miner, William H. (See Johnson, Bradley S., assignor.)
Miner, William H. (See Johnson, George A., assignor.)
Miner, William H. (See O'Connor, John F., assignor.)
Mirrielees, James F., assignor, by mesne assignments, to The Avey Drilling Machine Company, Cincinnati, Ohio. Lubricating device for drill-presses and the like. No. 1,398,888; Nov. 29.
Miscampbell, Hugh, Duluth, Minn. Mixing-machine. No. 1,398,238; Nov. 29.
Mitchell, Anthony G. M., Melbourne, Victoria, Australia. Method and apparatus for determining viscosity. No. 1,398,678; Nov. 29.
Mitchell, Lucien C., Chicago, Ill. Parachute and folding the same. No. 1,398,302; Nov. 29.
Mitchell, Rowland B., assignor to Athol Manufacturing Company, Athol, Mass. Solvent for pyroxylin bodies. No. 1,398,239; Nov. 29.
Mobley, George W., Waynesboro, Ga. Boll-weevil eradicator. No. 1,398,909; Nov. 29.
Moore, Alpha E., Thorntown, Ind. Wiggler. No. 1,398,681; Nov. 29.
Moore, Charles W. (See Ryder, P. H., and Moore.)

Moore, Walter M., Portsmouth, Va. Safety attachment for air-brake systems. No. 1,398,900; Nov. 29.
Montgomery, Henry M., Cedar Vale, Kans. Fur-stretcher. No. 1,398,907; Nov. 29.
Monti, Bodo, Turin, Italy. Making jams, jellies, and marmalades of fruit. No. 1,398,139; Nov. 29.
Morgan, George F., New York, N. Y. Axle. No. 1,398,240; Nov. 29.
Morgan, John S., assignor to Thermal Industrial and Chemical (T. I. C.) Research Company, Limited, London, England. Recovering gases which have been absorbed by solids. No. 1,398,852; Nov. 29.
Morgan, John W. (See Pimple, E. J., and Morgan.)
Morrell, Albert H. (See Wishart, W., and Morrell.)
Morris, Herbert M., San Francisco, Calif. Binder for sheets, leaves, and the like. No. 1,398,227; Nov. 29.
Morris, John M. (See Fogwell, H. H., and Morris.)
Mottinu, August J., assignor to A. Mecky Company, Philadelphia, Pa. Coaster-brake. No. 1,398,583; Nov. 29.
Multicolor Company. (See Walte, Edwin E., assignor.)
Murphy, Walter P., New York, N. Y. Corrugated-sheet-metal car end. No. 1,398,643; Nov. 29.
Murphy, Walter P., New York, N. Y. Corrugated-sheet-metal car end. No. 1 398,644; Nov. 29.
Murphy, Walter P., New York, N. Y. Vertically-reinforced-sheet-metal car end. No. 1,398,645; Nov. 29.
Murphy, William H., Independence, Mo. Loose-leaf binder. No. 1,398,898; Nov. 29.
Murray, Walter Z., Richmond, Va. Roll-holder. No. 1,398 646; Nov. 29.
Muspratt, Frederic J., township of Woombye, Queensland, Australia. Instrument for supplying comminuted gold by air-pressure. No. 1,398,527; Nov. 29.
Muther, Lorenz. (See Wales, Alfred B., assignor.)
Muths, Howard A., Mobile, Ala. Leather-preserver. No. 1,398 600; Nov. 29.
Naamloose Vennootschap Wilton's Maschinefabrieken Scheepswerf. (See Van Affaire, Pieter, assignor.)
Napier, D., & Son Limited. (See Rowledge, Arthur J., assignor.)
National Cash Register Company, The. (See Martin, Haaken A., assignor.)
National Cash Register Company, The. (See Shipley, Bermis M., assignor.)
National Tube Company. (See Johnston, William H. assignor.)
National Tube Company. (See Upp, Edwin L., assignor.)
Nelson, Albin W., assignor to Whitin Machine Works, Whitinsville, Mass. Roll-spreader. No. 1,398,269; Nov. 29.
Nelson Joseph E., & Sons. (See Tanner, Inos B., assignor.)
Nelson, Leon J., Los Angeles, Calif., assignor of one-half to Benjamin A. Metcalf, Denver, Colo. Shoe-buffer. No. 1,398,839; Nov. 29.
Nesbitt, James A. (See Turner, T. R., and Nesbitt.)
Neuteboom, Boudewijn B., Detroit Mich. Internal-combustion engine. No. 1,398,703; Nov. 29.
Newton, Richard T., New York, N. Y. Automobile-bumper. (Reissue.) No. 15,238; Nov. 29.
Ney, J. M. Company, The. (See Pfunder, Emil L., assignor.)
Nickum, Walter D. Glendale, Calif. Electrode for electrical water-level-indicating apparatus and other electrical apparatus. No. 1,398,270; Nov. 29.
Nixon, Moses C., Chicago, Ill. Bed or attachment therefor. No. 1,398,271; Nov. 29.
Nolan, William E., Tulsa, Okla. Sealing the walls of deep wells. No. 1,398,563; Nov. 29.
North East Electrical Company. (See Lee, Thomas L., assignor.)
North, John M., Sparta, Ill. Coal-mine curtain-rod. No. 1,398,900; Nov. 29.
Nordqvist, Per E., Dufbo, Sundbyberg, Sweden. Friction-clutch and the like. No. 1,398,564; Nov. 29.
O'Connor, John F., Chicago Ill., assignor to W. H. Miner, Chazy, N. Y. Friction draft-gear for railway-cars. No. 1,398,704; Nov. 29.
O'Connor, John F., Chicago Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,398,705; Nov. 29.
Ogur, Eugene, Jersey City, N. J. Meter for measuring granular material. No. 1,398,790; Nov. 29.
Oomigraph Company, The. (See Strawn, Ervin E., assignor.)
Orr, William S. (See McNally, T., and Orr.)
O-So-Easy Products Company. (See Perusse, George L., assignor.)
Osterberg, Carl T., assignor to A. O. Smith Corporation, Milwaukee, Wis. Corrugated-metal end for railway-cars. No. 1,398,241; Nov. 29.
Osterhout, Ivan L., Colfax, Wash. Adjustable reading-rack. No. 1,398,601; Nov. 29.
Overbury, Frederick C., Hilldale, N. J., assignor, by mesne assignments, to The Flinthote Company, Boston, Mass. Producing ornamental roofing. No. 1,398,272; Nov. 29.
Owens, William J., Chippenham, England. Adjustable tire-lever. No. 1,398,602; Nov. 29.
Packard Motor Car Company. (See Church, Harold D., assignor.)
Pascal, Paul, assignor to La Manufacture De Produits Chimiques Du Nord, Etablissements Kuhlmann, Paris, France. Process and apparatus for the manufacture of liquid sulfurous acid from dilute sulfurous-acid gas. No. 1,398,791; Nov. 29.
Paine, Arthur P., assignor to Winchester Repeating Arms Company, New Haven, Conn. Handlamp. No. 1,398,756; Nov. 29.
Palmer, Charles W. (See Briggs, J. F., and Palmer.)
Parham Auto Patents Corporation. (See Parham, William H., assignor.)
Parham, William H., assignor to Parham Auto Patents Corporation, Knoxville, Tenn. Vehicle-tire fastener. No. 1,398,668; Nov. 29.
Parker Manufacturing Company. (See Brown, Carl E., assignor.)
Parmenter, Brady, assignor to A. L. Atwood, Birmingham, Ala. Chuck for taper and straight-shank drills. No. 1,398,904; Nov. 29.
Paterson, Robert D. Fort Dodge, Iowa. Auxiliary lock. No. 1,398,465; Nov. 29.
Paulin, Josua G. Stockholm, Sweden. Pressure-gage log. No. 1,398,792; Nov. 29.
Payne, Luther M., Bethany, Okla., L. A. Miller, Greenville, and J. J. Douglas, Dallas, Tex. Cycle-car. No. 1,398,493; Nov. 29.
Pearce, Edwin S. (See Downing, I. S., and Pearce.)
Pearson, James H., assignor to Concrete Silo Company, Bloomfield, Ind. Cement-block machine. No. 1,398,442; Nov. 29.
Pedersen, Johannes T., Flushing, N. Y., assignor, by mesne assignments, to The Measuregraph Company. Clothometer-gage. No. 1,398,565; Nov. 29.
Pendergrass, Walter L., Mobile, Ala. Union-suit. No. 1,398,443; Nov. 29.
Peplinski, Glen, Mohawk, N. Y. Induction-coil. No. 1,398,793; Nov. 29.
Pepper, Frederick V., Los Angeles, Calif. Alarm mechanism. No. 1,398,240; Nov. 29.
Perkins, Louis J., Lewiston, Idaho. Tire-mounting. No. 1,398,566; Nov. 29.
Perri, Angelo, Bellingham, assignor to Reece Shoe Machinery Company, Boston, Mass. Machine for lasting stitched-down shoes. No. 1,398,823; Nov. 29.
Perry, Hubert M., assignor to S. L. Woods, Chicago, Ill. Antifriction-bearing. No. 1,398,390; Nov. 29.
Perusse, George L., Chicago, Ill., assignor to O-So-Esy Products Company. Mop. No. 1,398,567; Nov. 29.
Pesetersak, Gustav, Trenton, N. J. Mirror and comb holder for hats. No. 1,398,273; Nov. 29.
Pesetersak, Gustav, Trenton, N. J. Wrench. No. 1,398,374; Nov. 29.
Peterson, Jonathan, Brooklyn, assignor to Combination Machine Company, New York, N. Y. Packing and preserving plug-tobacco. No. 1,398,568; Nov. 29.
Peterson, Jonathan, Brooklyn, assignor to Combination Machine Company, New York, N. Y. Packing and preserving plug-tobacco. No. 1,398,569; Nov. 29.
Petteys, Willard A., Wilcox, Nebr. Grain cleaner, separator, and drier. No. 1,398,275; Nov. 29.
Petrovics, Fred J. (See Deam, Henry D., assignor.)
Pfunder, Emil L., Windsor, assignor to The J. M. Ney Company, Hartford, Conn. Chuck. No. 1,398,241; Nov. 29.
Pfunder, Xaver, Wohlen, Switzerland. Braiding-machine. No. 1,398,444; Nov. 29.
Phelps, Harry E., assignor to C. Kenyon Company, Inc., Brooklyn, N. Y. Coupling. No. 1,398,276; Nov. 29.
Pieper, Henri, Liege, Belgium. Ignition and combustion of combustibles in internal-combustion engines. No. 1,398,944; Nov. 29.
Pierce, Robert A., Los Angeles, Calif. Slide-rule. No. 1,398,914; Nov. 29.
Pilnacek, Michael, New York, N. Y. Toy pistol. No. 1,398,277; Nov. 29.
Piper, Joseph W., Lowell, Mass. Boiler for steam and hot-water heating. No. 1,398,794; Nov. 29.
Pittenger, Jacob A., Millburn, N. J. Sash-retainer. No. 1,398,795; Nov. 29.
Pittman, Reinhart W., New York, N. Y. Shutter for motion-picture apparatus. No. 1,398,242; Nov. 29.
Pleasa, Chester W. Sands, Mich. Trapper's compound tool. No. 1,398,342; Nov. 29.
Pobe, Charles E. (See Flirt, Alexander, assignor.)
Podstad, Frank, Wyandotte, Mich. Barrel-assembling machine. No. 1,398,737; Nov. 29.
Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-building machine. No. 1,398,343; Nov. 29.
Porter, Charles S., Houston, Tex. Concrete-wall mold. No. 1,398,915; Nov. 29.
Post, Claude L., Chicago, Ill. Inking-roller. No. 1,398,910; Nov. 29.
Potter, Clarence S. and Warren T. (See House, Herbert E., assignor.)
Potter, Wilbur C., and E. H. Stines, New Brunswick, N. J. Attachment for knitting-machines. No. 1,398,570; Nov. 29.
Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Automatic telephone system. No. 1,398,801; Nov. 29.
Prisio, Martin J. (See Rosskopf, Fritz, assignor.)
Provost, James J. (See Goguen, C. J., and Provost.)
Prucessman, Albert, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Condenser and making the same. (Reissue.) No. 15,241; Nov. 29.
Pusning, Franz, Pittsburgh, Pa. Method of and apparatus for cracking hydrocarbons. (Reissue.) No. 15,239; Nov. 29.

Pullock, William J., Germiston, Transvaal, South Africa. Lighting-fitting. No. 1,398,276; Nov. 29.
Putnam, Alden L., Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del. Metallic vehicle-wheel. No. 1,398,735; Nov. 29.
Putnam, Alden L., Detroit, Mich., assignor to Detroit Pressed Steel Company, Wilmington, Del. Vehicle-wheel. No. 1,398,736; Nov. 29.
Quick, Elroy I., et al. (See Erik, Emil, assignor.)
R. E. D. Engine Company. (See Ford, Eugene A., assignor.)
Radebaugh, Randolph F. (See Christensen, Mogens C., assignor.)
Raich, John B., Gary, assignor of one-half to J. A. Baumgartner, South Bend, Ind. Meat-cutting machine. No. 1,398,571; Nov. 29.
Rapson, Frederick L., Liverpool, England. Lifting-jack for motor and other vehicles. No. 1,398,279; Nov. 29.
Rapson, Frederick L., Liverpool, England. Self-starting device for internal-combustion engines. No. 1,398,796; Nov. 29.
Rapson, Frederick L., Liverpool, England. Ignition sparking plug for internal-combustion engines. No. 1,398,797; Nov. 29.
Raven, John, Deervale, via Armidale, New South Wales, Australia. Lifting-jack. No. 1,398,798; Nov. 29.
Raymond, Fred I., Two Buttes, Colo. Device for enabling an airplane-motor to develop its full power at high altitudes. No. 1,398,280; Nov. 29.
Reading, Harold C., Dewsbury, England. Internal-combustion engine. No. 1,398,647; Nov. 29.
Rea, Jonathan H., Omaha, Nebr. Aeroplane. No. 1,398,466; Nov. 29.
Rechnitzer, Alexander, Berlin, Germany, assignor to Autarit-Gesellschaft m. b. H., Vienna, Austria. Calculating-machine. No. 1,398,945; Nov. 29.
Recher, Adolph C., Oakville, assignor to The Chase Companies, Inc., Waterbury, Conn. Flashlight. No. 1,398,799; Nov. 29.
Red Cross Manufacturing Company. (See Bartlemay, Arlie, assignor.)
Regero, Frank, Macon, Ga. Fountain-pen. No. 1,398,800; Nov. 29.
Reece Button Hole Machine Company, The. (See Klewicz, John, assignor.)
Reece Button Hole Machine Company, The. (See La Fleur, Benjamin S., assignor.)
Reece Shoe Machinery Company. (See Perri, Angelo, assignor.)
Reed, Luke D., Burnham, Ill. Flying-boat. No. 1,398,467; Nov. 29.
Reid, James H., Readsboro, Vt., assignor to T. I. Hogan, Boston, Mass. Process of and material for reducing ore and making gas. No. 1,398,572; Nov. 29.
Reinl, William, Secaucus, N. J. Sash-fastener. No. 1,398,573; Nov. 29.
Remy Electric Company, The. (See Replogle, James B., assignor.)
Replogle, James B., Detroit, Mich., assignor to The Remy Electric Company. Regulating device. No. 1,398,648; Nov. 29.
Reuter, Fredereck J., Oakland, Calif. Toy vehicle. No. 1,398,392; Nov. 29.
Rice, Oliver M., Birmingham, Ala. Tool for demountable rims. No. 1,398,801; Nov. 29.
Rice, Stephen, Omaha, Nebr. Tire. No. 1,398,574; Nov. 29.
Richards, Ray S., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Charging device. No. 1,398,649; Nov. 29.
Richardson, John H., Melrose Highlands, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Last-pulling machine. No. 1,398,344; Nov. 29.
Riley, George W., assignor of one-fifth to J. J. Shipp, Foute, Ark. Flying-machine. No. 1,398,393; Nov. 29.
Rimple, E. J., and J. W. Morgan, San Jose, Calif. Power-lift for plows. No. 1,398,494; Nov. 29.
Rinehart, William L., St. Louis, Mo. Power-transmission device. No. 1,398,740; Nov. 29.
Roberts Brass Company. (See Zannoth, Robert C., assignor.)
Roberts, George S., Bend, Oreg. Steam-boiler and steam-power generation. No. 1,398,395; Nov. 29.
Robbins, Hallet R., Manchester, N. H. Concentration of ores. No. 1,398,294; Nov. 29.
Robinson, James. (See Erskine-Murray, J., and Robinson.)
Rockland Finishing Co. (See Jacoby, Raymond W., assignor.)
Rockwood Sprinkler Company of Massachusetts. (See Carlson, Hjalmar G., assignor.)
Roebling, Millard F., Cincinnati, Ohio. Time-actuated electrical switch mechanism. No. 1,398,916; Nov. 29.
Rodger Ballast Car Company. (See Hart, Harry S., assignor.)
Rodger Ballast Car Company. (See Hindahl, David, assignor.)
Rogers, G. L., and R. R. Gray, Snoqualamie Falls, Wash. Saw-controlling mechanism. No. 1,398,495; Nov. 29.
Rohrer, John M., Orwigsburg, Pa. Dirigible headlight. No. 1,398,802; Nov. 29.
Rose, John M., Philadelphia, Pa. Grinder or sharpener for knives, &c. No. 1,398,741; Nov. 29.
Rosenfeld, Harry. (See Rosenfeld, Joseph A. and H.)
Rosenfeld, Joseph A. and H., Cleveland, Ohio. Cloth-cutting and pattern-marking machine. No. 1,398,896; Nov. 29.
Rosskopf, Fritz, West Hoboken, N. J., assignor to M. J. Prisio, Kingston, Pa. Measuring and plotting instrument. No. 1,398,243; Nov. 29.
Rotary King Safety Razor Company. (See King, John L., assignor.)
Rothrock, William, South Allentown, Pa. Washboard. No. 1,398,445; Nov. 29.
Rothwell, Bertram S., Cleveland, Ohio. Oil-burner. No. 1,398,650; Nov. 29.
Rowledge, Arthur J., assignor to D. Napier & Son, Limited, London, England. Valve-gear for internal-combustion engines. No. 1,398,651; Nov. 29.
Rozanski, Walter J., Pittsburgh, Pa. Roundabout. No. 1,398,652; Nov. 29.
Rudin, Nathan. (See Snider, J. M. Segal, Chaitt, and Rudin.)
Ruediger, Ernest H., Bismarck, N. D. Electric thermo-regulator. No. 1,398,281; Nov. 29.
Ruggles, Horace F., West Englewood, N. J. Tractor-coupling for sugar-carts. No. 1,398,575; Nov. 29.
Rust, Robert R., New York, N. Y. Making cast chains. No. 1,398,700; Nov. 29.
Rutgerswerke Aktiengesellschaft. (See Szarvassy, I. and Benesi, assignors.)
Ryder, F. H., and C. W. Moore, Bucyrus, Ohio. Oil-burner. No. 1,398,397; Nov. 29.
Saltalamachia, Anthony F., Huntington Park, Calif. Table. No. 1,398,496; Nov. 29.
Salter, William A., Kansas City, Mo. Cylinder-lapping tool. No. 1,398,398; Nov. 29.
Safko, John A., Munson, Pa. Nut-lock. No. 1,398,446; Nov. 29.
San Diego Consolidated Gas and Electric Company. (See Watson, William V., assignor.)
Santin, J. J., and G. M. White, El Reno, Okla. Traffic-signal for motor-vehicles. No. 1,398,653; Nov. 29.
Sarup, Andrew J., assignor to A. M. Sarup, North Vancouver, British Columbia, Canada. Safety-hook. No. 1,398,654; Nov. 29.
Sarup, Annie M. (See Sarup, Andrew J., assignor.)
Scientific Specialty Company, The. (See Stewart, Alexander T., assignor.)
Schauman, Karl O., San Francisco, Calif. Bumper-actuated vehicle-control mechanism. No. 1,398,899; Nov. 29.
Schenck, Pierce D., Dayton, Ohio, assignor to The Duriron Company, Inc. Heat resisting iron. No. 1,398,917; Nov. 29.
Schenck, Pierce D., Dayton, Ohio, assignor to The Duriron Company. Acid-resisting iron. No. 1,398,918; Nov. 29.
Scherer, Adolph, Philadelphia, Pa. Lamp-shade. No. 1,398,305; Nov. 29.
Schiff, Henry T., Chicago, Ill., assignor to Vitanola Talking Machine Co. Sound-reproducing machine. No. 1,398,742; Nov. 29.
Schiff, Samuel L., assignor to Vitanola Talking Machine Company, Chicago, Ill. Brake or stop device for sound-reproducing machines. No. 1,398,743; Nov. 29.
Schinkes, Albert. (See Keller, W. H., and Schinkes.)
Schmidt, Wilhelm, Wilhelmshöhe, near Cassel, Germany, assignor, by mesne assignments, to Superheater Company. Power-engine plant. No. 1,398,946; Nov. 29.
Schneider, John J., Lathrop, Mo. Safety-chain. No. 1,398,803; Nov. 29.
Schnuck, Carl F. (See Bowen, D. R., and Schnuck.)
Schreiber, Walter T., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Motor-fuel for aeroplanes. No. 1,398,947; Nov. 29.
Schreiber, Walter T., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Motor-fuel. No. 1,398,948; Nov. 29.
Schreder, Nikolaus and S., Cleveland, Ohio. Combined coal and gas stove. No. 1,398,400; Nov. 29.
Schreder, Stefan. (See Schreder, Nikolaus and S.)
Schuls, M., Co. (See Gustafson, Adolp F., assignor.)
Schumacher, Albert J., San Francisco, Calif. Manufacture of hydrogen peroxid. No. 1,398,468; Nov. 29.
Schwarting, Hugo, Green Bay, Wis. Hand twine-cutter. No. 1,398,919; Nov. 29.
Schwarz, Albert. (See de Dragic, T., and Schwarz.)
Schwarz, Justin O., New York, N. Y., and G. Bjorklund, West New York, N. J. Pneumatic action. No. 1,398,469; Nov. 29.
Schwartz, Charles, Villeurbanne, assignor to Societe Gillet & fils, Lyon, Rhone, France. Treatment of vegetable fibers. No. 1,398,804; Nov. 29.
Schweinert, Maximilian C., West Hoboken, N. J. Rim-nut. No. 1,398,604; Nov. 29.
Schylander, John F., Chicago, Ill. Cabinet. No. 1,398,744; Nov. 29.
Scott, George. (See Chicken, C. B., and Scott.)
Seel, Paul C., assignor to Eastman Kodak Company, Rochester, N. Y. Dehydrating nitro-cellulose and reducing the fire risk thereof. No. 1,398,911; Nov. 29.
Segal, Nathan. (See Smiler, J. M., Segal, Chaitt, and Rudin.)
Selden, Arthur R., Rochester, N. Y. Loose-leaf binder. No. 1,398,306; Nov. 29.
Self Bailing Life Boat Company, The. (See Togersen, Bernt E., assignor.)

Seller, Arthur. (See Weber, A. Voorsanger, and Seller.)
Sentinel Alarm Co. (See Hatcher, James M., assignor.)
Severance, W. E. (See Hotchkiss, Thomas, assignor.)
Shaef, Charles B., Norristown, Pa. Auxiliary-air inlet. No. 1,398,469; Nov. 29.
Sharpe, George M., Steubenville, Ohio. Gas-burner. No. 1,398,470; Nov. 29.
Shaw, Ryland R., Decatur, Ill. Automobile-license fastener. No. 1,398,401; Nov. 29.
Shawnee Mower Company. (See Worthington, Charles C., assignor.)
Shelburne, Augustine, South Pasadena, Calif. Air-brush. No. 1,398,920; Nov. 29.
Sheldon, Thomas C. (See Legendre, Ovide, assignor.)
Shipper, Isaac D., assignor to The J. G. Brill Company, Philadelphia, Pa. Current-collector. No. 1,398,806; Nov. 29.
Shipley, Bernis M., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,398,576; Nov. 29.
Schrager, Cecil. (See Lance, Robert R., assignor.)
Shipp, J. J. (See Riley, George W., assignor.)
Short, Fred H., Waterville, Me. Heating plant. No. 1,398,921; Nov. 29.
Skally, Bernard H., Bridgeport, Conn. Dust-cap for lubricating cups or nipples. No. 1,398,877; Nov. 29.
Silver, Bennett C., Chicago, Ill. Toy bed. No. 1,398,745; Nov. 29.
Simonds, Frank, Grand Haven, Mich. Wall construction. No. 1,398,402; Nov. 29.
Simms Magneto Company, The. (See Hoyt, Frederick A., assignor.)
Simms Magneto Company, The. (See Kliesrath, V. W., and Hoyt, assignors.)
Simmons, Ralph C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for arranging heel-blanks. No. 1,398,845; No. 29.
Smart, Joseph S., Detroit, Mich. Collapsible bench-leg. No. 1,398,471; Nov. 29.
Smiley, Jacob M. N. Segal, J. Chaitt, and N. Endin, Philadelphia, Pa. Phonograph-record album. No. 1,398,746; Nov. 29.
Smith, A. O., Corporation. (See Osterberg, Carl F., assignor.)
Smith, Jesse A., Des Moines, Iowa. Egg-turnover pan. No. 1,398,655; Nov. 29.
Smith, Rexford M., Washington, D. C., assignor, by mesne assignments, to Connecticut Aircraft Company, New Haven, Conn. Flying-machine. No. 1,398,922; Nov. 29.
Smith, Robert W., Redditch, England. Antivibration handle-bar for motorcycles, cycles, and the like. No. 1,398,447; Nov. 29.
Smith, Robert W., Redditch, assignor of one-half to The Enfield Cycle Company, Limited, Redditch, Worcester, England. Combined mudguard and carrier member for use on motor and other cycles. No. 1,398,448; Nov. 29.
Smith, Samuel C., assignor of one-half of L. L. Hoffmann, Chicago, Ill. Water-heater. No. 1,398,747; Nov. 29.
Smith, T. I. Company. (See Curtis, Theron S., assignor.)
Smith, William C., Robinson, Ill. Rim. No. 1,398,807; Nov. 29.
Smithfield, V. R. (See Combs, James M., assignor.)
Societe Gillet & Fils. (See Schwartz, Charles, assignor.)
Société Lyonnaise D'Industrie Mecanique. (See Adenot, Marius, assignor.)
Soule, Leslie W., Seattle, Wash. Automobile-signal. No. 1,398,922; Nov. 29.
Southern Agricultural Chemical Corporation. (See Tuttle, Arthur L., assignor.)
Sowers, George S., Spring Hill, Kans. Supporting means for hay-slings. No. 1,398,472; Nov. 29.
Spangler, Henry R., Pueblo, Colo. Tire-pressure indicator and alarm. No. 1,398,449; Nov. 29.
Spartan Needle Company. (See Taft, Sydney E., assignor.)
Spartan Needle Company. (See Wilcomb, J. Frank, assignor.)
Spiro, Charles, New York, N. Y. Margin-gage device. No. 1,398,252; Nov. 29.
Spooner, Thomas, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Compression-rheostat. No. 1,398,605; Nov. 29.
Srill, Edward A., Chicago, Ill. Wire-bound box. No. 1,398,606; Nov. 29.
St. Clair, William C. (See Buschino, Charles, assignor.)
Stahl, George W., Chicago, Ill. Paint-package and making it. No. 1,398,403; Nov. 29.
Standard Feed Products Company. (See MacLachlan, John C., assignor.)
Standard Rubber Company. (See Allyn, Harley H., assignor.)
Stanley, Conquest J. (See Wray, Charles, assignor.)
Starr, Charles L. (See McDaniel, Newton M., assignor.)
Steele, Herbert H., Brooklyn, assignor, by mesne assignments, to John H. Eggers Company, Inc., New York, N. Y. Coin-card and making the same. No. 1,398,607; Nov. 29.
Stein, Adolph H., executor. (See Hanek, Arthur B.)
Stent, Dudley H., Delhi, India. Means for securing rails or heavy bodies to concrete sleepers, walls, or floors. No. 1,398,749; Nov. 29.
Stephens, William E., Sunset, Tex. Burglar-alarm. No. 1,398,924; Nov. 29.
Stevens, William A., Maidstone, England. Power-transmitting mechanism. No. 1,398,608; Nov. 29.
Stevens, William C., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Method and apparatus for manufacturing tires. No. 1,398,749; Nov. 29.
Stewart, Alexander, Clintonville, Wis. Worm-driven four-wheel-drive tractor. No. 1,398,570; Nov. 29.
Stewart, Alexander T., Philadelphia, assignor to The Scientific Specialty Company, Pittsburgh, Pa. Fruit or vegetable washer. No. 1,398,473; Nov. 29.
Stewart, John H., Cincinnati, Ohio. Aeroplane. No. 1,398,750; Nov. 29.
Stewart, William C., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastener-feeding mechanism. No. 1,398,846; Nov. 29.
Stice, Fred W., and J. H. Stice, Tama, Iowa. Vending-machine. No. 1,398,283; Nov. 29.
Stice, Jesse H. (See Stice, Fred W., and J. H.)
Stickle, Frederick A., assignor to R. H. Loukes, Cincinnati, Ohio. Weatherstrip. No. 1,398,284; Nov. 29.
Stines, Edward H. (See Potter, W. C., and Stines.)
Stirling, Charles P., assignor to Cott-a-lap Co., Somerville, N. J. Continuous printing by lithography. No. 1,398,506; Nov. 29.
Stogner, John E., Lancaster, S. C. Ice-hook. No. 1,398,809; Nov. 29.
Story, Fred D., Center Point, Ark. Wagon-spring. No. 1,398,610; Nov. 29.
Stott, William J., Worcester, Mass. Twine-holder. No. 1,398,847; Nov. 29.
Straight, Merton T., Adel, Iowa. Phonograph-needle. No. 1,398,529; Nov. 29.
Straub, Oscar I. (See Wildrick, Meade, assignor.)
Strawn, Ervin E. assignor to The Omnigraph Company, Des Moines, Iowa. Paper-cutting device. No. 1,398,474; Nov. 29.
Strawn, Ervin E., assignor to The Omnigraph Company, Des Moines, Iowa. Printing and ruling machine. No. 1,398,475; Nov. 29.
Strawn, Ervin E., Des Moines, Iowa. Sales-book cover. No. 1,398,530; Nov. 29.
Stromberg-Carlson Telephone Manufacturing Company, The. (See Powell, Winfred F., assignor.)
Sührcke, Harry A., Hamburg, Germany. Film-cleaning machine. No. 1,398,811; Nov. 29.
Sullivan Machinery Company. (See Halvorsen, Halbert B., assignor.)
Sullivan Machinery Company. (See Wineman, Wade H., assignor.)
Sulzer, Albert F., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-Acetate Composition. No. 1,398,949; Nov. 29.
Sundhausen, Hermann, Essen, assignor to Fried Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Disk-shaped commutator for gyroscope-motors. No. 1,398,404; Nov. 29.
Superheater Company. (See Schmidt, Wilhelm, assignor.)
Sykes, George, assignor to Sykes Standard Fruit Wrap Company, Fowryn, Calif. Packing device. No. 1,398,405; Nov. 29.
Sykes Standard Fruit Wrap Company. (See Sykes, George, assignor.)
Syler, Harry B., Norton, Kans. Spring suspension for automobiles and other vehicles. No. 1,398,812; Nov. 29.
Szarvassy, Imre, Budapest, Hungary, and F. H. Bensel, Ratibor, assignors to Rutgerswerke Aktiengesellschaft, Berlin, Germany. Production of soot-carbon, retort-graphite, and other carbon products from natural gas. No. 1,398,751; Nov. 29.
Taft, Sydney E., Framingham, Mass., assignor to Spartan Needle Company, Providence, R. I. Knitting-needle. No. 1,398,813; Nov. 29.
Tait, William S., assignor to Hydraulic Pressed Steel Company, Cleveland, Ohio. Joist-bracket. No. 1,398,579; Nov. 29.
Tanenbaum, Michael, Brooklyn, N. Y. Drill. No. 1,398,614; Nov. 29.
Tanner, Inos B., assignor to J. B. Nelson & Sons, Chicago, Ill. Filtering apparatus. No. 1,398,285; Nov. 29.
Tarkington, Harry K., assignor of one-half to H. L. Babcock, Chicago, Ill. Carbureter. No. 1,398,707; Nov. 29.
Taussig, Gottlieb, New York, N. Y. Coloring motion-picture films. No. 1,398,294; Nov. 29.
Taylor, Percival, Bolton, assignor of one-half to Jabez Johnson Hodgkinson and Pearson Limited, Manchester, Lancaster, England. Terry or looped fabric. No. 1,398,752; Nov. 29.
Taylor-Wharton Iron and Steel Company. (See Apgar, Stanley, assignor.)
Taylor-Wharton Iron and Steel Company. (See Mayer, Waldemar F., assignor.)
Ternstedt Manufacturing Company. (See Heintz, Ernest R., assignor.)
Tessier, Julien, assignor to Eastman Kodak Company, Rochester, N. Y. Camera-back. No. 1,398,950; Nov. 29.
Tessier, Julien, assignor to Eastman Kodak Company, Rochester, N. Y. Photographic plateholder. No. 1,398,951; Nov. 29.
Tessier, Julien, assignor to Eastman Kodak Company, Rochester, N. Y. Color-screen carrier. No. 1,398,952; Nov. 29.
Thermal Industrial and Chemical (T. I. C.) Research Company. (See Morgan, John S., assignor.)

Thermoheat Products Corporation. (See Willson, Walter W., assignor.)
Thomas Rubber Co., Long Island City, assignor, by mesne assignments, to L-W-P Engineering Company, Inc., College Point, Long Island, N. Y. Producing laminated constructions and apparatus for use in connection therewith. No. 1,398,244; Nov. 29.
Thompson, Albert B., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Pressure-cooker. No. 1,398,476; Nov. 29.
Thompson, Ella, Chicago, Ill. Corset. No. 1,398,657; Nov. 29.
Thompson, George K., Maplewood, N. J., assignor to American Telephone and Telegraph Company. Selective signaling system. No. 1,398,587; Nov. 29.
Thompson, Herbert S., Pendhill, N. Y. Curtain for locomotive-cabs. No. 1,398,907; Nov. 29.
Thring, Leonard G. P., Cambridge, England. Pressure indicator or recorder. No. 1,398,683; Nov. 29.
Thuman, Frederic, London, England. Gas-producer. No. 1,398,680; Nov. 29.
Tidmarsh, William R., assignor of one-half to Union Iron Works, Bangor, Me. Wood-pulp grinder. No. 1,398,753; Nov. 29.
Tibbels, Myron B., Fremont, Ohio. Gib-adjuster. No. 1,398,610; Nov. 29.
Tibbetts, Milton, Detroit, Mich., assignor, by mesne assignments, to J. E. Chilson, Trustee, Rochester, N. Y. Gear-cutting machine. No. 1,398,477; Nov. 29.
Timson, William, assignor to W. & T. Avery, Limited, Birmingham, England. Weighing scale. No. 1,398,708; Nov. 29.
Tinsley, James B., Phoenix, Ariz. Pump. No. 1,398,450; Nov. 29.
Tisch, George C. L., Elizabeth, N. J. Chenille untwisting and winding machine. No. 1,398,764; Nov. 29.
Togersen, Bernt E., Seattle, Wash., assignor to The Self Bailing Life Boat Company, Inc. Lifeboat. No. 1,398,451; Nov. 29.
Toombs, Claude H., assignor to The Toombs Manufacturing Company, Geneva, Ill. Water-heater. No. 1,398,755 Nov. 29.
Toombs Manufacturing Company, The. (See Toombs, Claude H., assignor.)
Toplitz, Samson L., New York, N. Y. Mop. No. 1,398,245; Nov. 29.
Trask, F. G., Reno, N. D. Apparatus for supplying air to the exterior of hulls of ships. No. 1,398,246; Nov. 29.
Trenkamp, Herman J. (See Kneier, Joseph, assignor.)
Trojan Powder Company. (See Brownstein, Jesse B., assignor.)
Troy Wagon Works Company, The. (See Eccard, John F., assignor.)
Trusty, James F., and D. O. Davison, Kansas City, Mo.; said Davison assignor to said Trusty. Machine for making and laying pipe. No. 1,398,816; Nov. 29.
Turner, Thomas R., Toronto, and J. A. Nesbitt, London, Ontario, Canada. Attachment for hydrocarbon-engines. No. 1,398,406; Nov. 29.
Tuttle, Arthur L., Atlanta, Ga., assignor to Southern Agricultural Chemical Corporation, New York, N. Y. Manufacture of superphosphate. No. 1,398,616; Nov. 29.
Tyler, Charley P., Sherman, Tex. Car-rail hose-bridge. No. 1,398,407; Nov. 29.
Tyler, Harry F., Redondo Beach, Calif. Furniture-bumper. No. 1,398,925; Nov. 29.
U. S. Armor Corporation. (See de Dragic, T., and Schwarz, assignors.)
U. S. Light & Heat Corporation. (See Biles, William L., assignor.)
U. S. Industrial Alcohol Co. (See Schreiber, Walter T., assignor.)
U. S. Light & Heat Corporation. (See Engel, Frank, assignor.)
Union Iron Works. (See Tidmarsh, William R., assignor.)
Union Switch & Signal Company. (See Lewis, Lloyd V., assignor.)
Union Switch & Signal Company, The. (See Loomis, Harold S., assignor.)
United Mines and Manufacturing Company, The. (See Kohler, Ernest, assignor.)
United Printing Machinery Company. (See Upham, B. F., and Belluche, assignors.)
United Shoe Machinery Corporation. (See Bates, Arthur, assignor.)
United Shoe Machinery Corporation. (See Furber, Frederick M., assignor.)
United Shoe Machinery Corporation. (See Pope, Joseph H., assignor.)
United Shoe Machinery Corporation. (See Richardson, John H., assignor.)
United Shoe Machinery Corporation. (See Simmons, Ralph C., assignor.)
United Shoe Machinery Corporation. (See Stewart, William C., assignor.)
United States Automotive Corporation. (See Arbuckle, Samuel F., assignor.)
United States Spray Company. (See Gerhart, Bayless W., assignor.)
Upham, Burt F., Brookline, and F. R. Belluche, Mansfield, Mass., assignors to United Printing Machinery Company, Boston, Mass. Bed-motion for sheet-printing presses. No. 1,398,817; Nov. 29.
Upp, Edwin L., Lorain, Ohio, assignor to National Tube Company, Pittsburgh, Pa. Automatic dump-trough-operating apparatus. No. 1,398,618; Nov. 29.
Van Affaire, Pieter, assignor to Naamloose Vennootschap Wilton's Maschinenfabrieken Schiedam, Rotterdam, Netherlands. Dock. No. 1,398,825; Nov. 29.
Van Alstyn, Albert T., Grand Rapids, Mich. Paper receptacle or tray. No. 1,398,611; Nov. 29.
Van Dresar, Elmer L., St. Paul, Minn. Tie-plate-rail anchor. No. 1,398,478; Nov. 29.
Van Guelpen, Louis J., Cincinnati, Ohio. Inking-machine. No. 1,398,627; Nov. 29.
Van Oesterwyck, Jean, Loncin Ans, Belgium. Water-tube boiler. No. 1,398,948; Nov. 29.
Vance, Herman B. (See La Pointe, William B., assignor.)
Venable, William M., Pittsburgh, Pa., assignor to Stewart-Knox Company. Excavating-bucket. No. 1,398,479; Nov. 29.
Victor, Joseph B., assignor to Victor Manufacturing & Gasket Co., Chicago, Ill. Gasket. No. 1,398,612; Nov. 29.
Victor Manufacturing & Gasket Co. (See Victor, Joseph B., assignor.)
Vincent, Frank S., Grand Rapids, Mich. Extracting gases from liquids. No. 1,398,658; Nov. 29.
Vitanola Talking Machine Company. (See Bachmert, Otto, assignor.)
Vitanola Talking Machine Co. (See Schiff, Henry T., assignor.)
Vitanola Talking Machine Company. (See Schiff, Samuel L., assignor.)
Voges, Anthony. (See Voges, August B. and A.)
Voges, August B. and A., Cincinnati, Ohio. Pump. No. 1,398,408; Nov. 29.
Vollmer, John, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gun-barrel built of an A-tube and a breech-piece. No. 1,398,619; Nov. 29.
Von Appen, August, Kiel, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Apparatus for investigating an electrical gyroscopic aring-gear. No. 1,398,828; Nov. 29.
Voorsanger, Leon. (See Weber, A. Voorsanger, and Seller.)
Wackwitz, Ernest F., Arlington Heights, assignor to Gray & Davis Inc., Cambridge, Mass. Focusing apparatus for lamps. No. 1,398,531; Nov. 29.
Wagner, Edward H., Providence Forge, Va. Adjustable radius-rod. No. 1,398,820; Nov. 29.
Wagnon, Ira W., assignor of one-half to John F. Brown, Casa Grande, Ariz. Automatic rifle. No. 1,398,452; Nov. 29.
Waite, Edwin E., assignor, by mesne assignments, of one-half to Multicolor Company, Framingham, Mass. Bearing material. No. 1,398,926; Nov. 29.
Waite, Harry F., New York, N. Y. Electric switch. No. 1,398,560; Nov. 29.
Wales, Alfred B., Whitman, assignor to L. Muther, Newton, Mass. Web feeding and cutting apparatus. No. 1,398,581; Nov. 29.
Walker, Joah H., Woolwich, England. Lifting or hauling gear. No. 1,398,756; Nov. 29.
Wallace, Thomas B. S., Chicago, Ill. Appliance for holding films for dental radiographs. No. 1,398,247; Nov. 29.
Walker, Viola K., administratrix. (See McGahan, Frederick L., assignor.)
Waram, Charles E., Cincinnati, and D. H. Benjamin, Cleveland Heights, Ohio, assignors to The American Laundry Machinery Company, Norwood, Ohio. Ironing-machine. No. 1,398,248; Nov. 29.
Warmoth, George W., Indianapolis, Ind. Wood block paving. (Reissue.) No. 15,240; Nov. 29.
Washburn, Frank S., Rye, assignor to American Cyanimid Company, New York, N. Y. Producing ferrocyanids. No. 1,398,453; Nov. 29.
Watkins, Edmond M., Trenton, N. J. Fastener. No. 1,398,288; Nov. 29.
Watson, William V., assignor of one-half to San Diego Consolidated Gas and Electric Company, San Diego, Calif. Plastic composition and making the same. No. 1,398,613; Nov. 29.
Weber, Anton, Oakland, L. Voorsanger and A. Seller, San Francisco, Calif. Dispensing apparatus. No. 1,398,248; Nov. 29.
Weeks, Walter L., Patchogue, N. Y. Paper-holder. No. 1,398,308; Nov. 29.
Weinman, Milton, Chicago, Ill. Desk-pad. No. 1,398,249; Nov. 29.
Weisgarber, Kate A., Vibank, Saskatchewan, Canada. Cooking device. No. 1,398,757; Nov. 29.
Wells, Fred and M., Towanda, Pa. Split rim. No. 1,398,659; Nov. 29.
Wells, Martin. (See Wells, Fred and M.)
Wesdulin, Joseph T., New York, assignor to Columbia Machine Works & Malleable Iron Co., Brooklyn, N. Y. Oil-burner. No. 1,398,709; Nov. 29.
Westerbeck, Frederick, St. Louis, Mo. Sheet-metal box. No. 1,398,409; Nov. 29.
Western Electric Company, Inc. (See Arnold, Harold D., assignor.)
Western Electric Company. (See Fowler, Clarence B., assignor.)
Western Electric Company. (See Pruessman, Albert, assignor. (Reissue.)
Westinghouse Electric Products Company. (See Forshee, Frank F., assignor.)

Westinghouse Electric & Manufacturing Company. (See Hellmund, Rudolf H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Spooner, Thomas, assignor.)
Whalley, Thomas H., Blackburn, England. Loom-shuttle. No. 1,296,089; Nov. 29.
Wheeler, Robert B., New York, N. Y. Indicating attachment for sound-records. No. 1,296,289; Nov. 29.
White, George M. (See Smith, J. J., and White.)
Whiting Machine Works. (See Nelson, Albin W., assignor.)
Whitlock, Lester J., Pomona, Calif. Temperature-moderator for orchards and the like. No. 1,296,267; Nov. 29.
Whitmore, Horace G., and C. T. Glaeser, Minneapolis, Minn. Windshield-shade. No. 1,296,661; Nov. 29.
Wiegand, Edwin L., Pittsburgh Pa. Embedding process. No. 1,296,410; Nov. 29.
Wildrick, Meade, U. S. Army, assignor of one-half to O. I. Straub, Fort Howard, Md. Aerial torpedo or mine. No. 1,296,220; Nov. 29.
Wilcomb, J. Frank, Worcester, Mass., assignor to Spartan Needle Company, Providence, R. I. Knitting instrument. No. 1,296,221; Nov. 29.
Williams, Brice, Kokomo, Ind. Vending-machine. No. 1,296,351; Nov. 29.
Williams, Frederick W. B., London, England. Apparatus for use in the manufacture of superphosphate. No. 1,296,350; Nov. 29.
Williams, William E., Chicago, Ill. Plate-web wheel. No. 1,296,614; Nov. 29.
Williams, William E., Chicago, Ill. Tension-plate wheel. No. 1,296,615; Nov. 29.
Williamson, Romeo L., Mount Vernon, Ohio. Power-transmission mechanism. No. 1,296,028; Nov. 29.
Willison, Walter W., New York, N. Y., assignor to Thermokept Products Corporation. Peanut-butter. No. 1,296,352; Nov. 29.
Willys-Overland Company., The. (See Lightner, A. D., and Holmes, assignors.)
Wilson, John D. (See McNally, S. L., and Wilson.)
Wilson, John H., Burkburnett, Tex. Casing-pulling apparatus. No. 1,296,822; Nov. 29.
Wilson, Walter E., Doncaster, England. Gagging appliance. No. 296,616; Nov. 29.
Winchester Repeating Arms Company. (See de Olaneta, Harold, assignor.)
Winchester Repeating Arms Company. (See Paine, Arthur P., assignor.)
Winchenbach, Max, Kiel, Germany. Hydroplane. No. 1,296,353; Nov. 29.
Windsor, Ernest A., Port Huron, Mich. Interchangeable heel. No. 1,296,462; Nov. 29.
Wineman, Wade H., Chicago, Ill., assignor to Sullivan Machinery Company. Compressor-controlling mechanism. No. 1,296,512; Nov. 29.
Wineman, Wade H., Chicago, Ill., assignor to Sullivan Machinery Company. Compressor-controlling mechanism. No. 1,296,513; Nov. 29.
Windeld, Charles D., Brooklyn, N. Y. Folding cot. No. 1,296,755; Nov. 29.
Wishart, William, and Albert H. Morrell, assignors to Clinton Refrigerating Company, Clinton, Iowa. Compressor valve mechanism. No. 1,296,500; Nov. 29.
Wolter, Rodolphe, Buenos Aires, Argentina. Weighing-scale. No. 1,296,490; Nov. 29.
Wood, William H., Richmond, Calif. Lubricating composition. No. 1,296,756; Nov. 29.
Woods, Sophie L. (See Perry, Hubert M., assignor.)
Woolard, William F., Wauwatosa, Wis. Corrugated metal and fur railway-cars. No. 1,296,249; Nov. 29.
Worthington, Charles C., Dunfield, N. J., assignor to Shawnee Mower Company, New York, N. Y. Gang lawn-mower. No. 1,296,441; Nov. 29.
Wray, Charles, Croydon, assignor to himself and C. J. Stanley, London, England. Gas-fire, electric radiators, and the like. No. 1,296,623; Nov. 29.
Wright, Ernest N. (See Wright, Leon G., assignor.)
Wright, Henry, Fresno, Calif. Internal-combustion engine. No. 1,296,354; Nov. 29.
Wright, Leon G., Preston, assignor of one-half to E. N. Wright, Choptank, Md. Vehicle-headlight. No. 1,296,523; Nov. 29.
Yale & Towne Manufacturing Company, The. (See Lewis, Rollis C., assignor.)
Yates, John L., New York, N. Y. Lock. No. 1,296,617; Nov. 29.
Yetter, Edward J., Denver, Colo. Sheet-roofing. No. 1,296,250; Nov. 29.
Youngquist, Henry W., Manchester, N. H., assignor to Draper Corporation, Hopedale, Mass. Stop mechanism for looms. No. 1,296,552; Nov. 29.
Zannoth, Robert C., assignor to Roberts Brass Company, Milwaukee, Wis. Air-pump. No. 1,296,810; Nov. 29.
Zurewsky, Jack. (See Kuc, Wasyl, assignor.)

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Adamec, C. George, Milwaukee, Wis. Toy. No. 59,805; Nov. 29.
Allen, Archibald K. and C. A., Seattle, Wash. Tire. No. 59,806; Nov. 29.
Allen, Clarence A. (See Allen, Archibald K. and C. A.)
Altruda, Pasquale, Providence, R. I. Rubber heel. No. 59,807; Nov. 29.
American Optical Company. (See Hill, Harry W., assignor.)
American Optical Company. (See Schumacher, E. L., and Boutelle, assignors.)
Arrow Electric Company, The. (See Harrington, William H., assignor.)
Batterton, Eva B., Springfield, Ill. Printed fabric. No. 59,808; Nov. 29.
Bay State Optical Company. (See Clulee, Stephen J., assignor.)
Benham, Milton C., Elkhart, Ind. Traffic-guard. No. 59,809; Nov. 29.
Benson, Flora, Angleton, Tex. Paper doll. No. 59,810; Nov. 29.
Boutelle, William H. (See Schumacher, E. L., and Boutelle.)
Braender, Walter P., Montclair, N. J. Automobile-tire. No. 59,811; Nov. 29.
Brendel, Samuel C., McKeesport, Pa. Direction-indicator for motor-vehicles. No. 59,812; Nov. 29.
Briscoe, Benjamin, & Stahl Engineering Co. (See Stahl, Rodolphe, assignor.)
Campbell, Charles A., New York, N. Y. Lampglobe. No. 59,813; Nov. 29.
Card, Edson B., White Plains, N. Y. Doll. No. 59,814; Nov. 29.
Casey, James D. (See Evenden, A. L., J. D. and J. A. Casey.)
Casey, Joseph. (See Evenden, A. L., and J. A. Casey.)
Christy, James, Cleveland, Ohio. Tire. No. 59,815; Nov. 29.
Clarke, Edward H., Peoria, Ill. Whistle. No. 59,816; Nov. 29.
Clulee, Stephen J., Attleboro, Mass., assignor to Bay State Optical Company. Spectacles. Nos. 59,817–18; Nov. 29.
Conner, Martha H., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Sifter-top can or similar receptacle. No. 59,819; Nov. 29.
Cotter, Richard H., Brooklyn, N. Y. Game-board. No. 59,820; Nov. 29.
Crucet, Joseph M., New York, N. Y. Electric-lamp fixture. Nos. 59,821–2; Nov. 29.
Cummins, Samuel, New York, N. Y. Cake of soap. No. 59,823; Nov. 29.
Curtiss, George E., assignor to Landers, Frary & Clark, New Britain, Conn. Urn. No. 59,824; Nov. 29.
Dennis, Edward C., and R. M. Shipley, Wichita, Kans. Emblem, badge, ring, stickpin, brooch, watch-charm, lapel-button, or other article of similar nature. No. 59,825; Nov. 29.
Dynas, Mike, Chicago, Ill. Horse-collar. No. 59,826; Nov. 29.
Evenden, Alfred L., J. D. and J. A. Casey, Rome, N. Y. Pincers. No. 59,827; Nov. 29.
Finucane, John J., assignor to Washerette Corporation, Rochester, N. Y. Washing-machine. No. 59,828; Nov. 29.
Flauder, Alfred J., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn. Combined perfumer and disinfector. No. 59,829; Nov. 29.
Flauder, Alfred J., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn. Combined perfumer and disinfector. Nos. 59,830–31; Nov. 29.
Fletcher, Elmer, assignor to Fletcher-Wickes Co., Chicago, Ill. Tone-arm for phonographs. No. 59,832; Nov. 29.
Fletcher-Wickes Co. (See Fletcher, Elmer, assignor.)
Gambill, Charles H., Oak Park, Ill. Engine-frame. No. 59,833; Nov. 29.
Gegenheimer, George, Baldwin, Long Island, assignor to Golding Bros. Company, New York, N. Y. Fabric. Nos. 59,834–7; Nov. 29.
Golding Bros. Company. (See Gegenheimer, George, assignor.)
Gordon, Joseph P. (See Nelson, William J., assignor.)
Goyette, Joseph A., Providence, R. I. Tower-bell engage-ment-ring. No. 59,838; Nov. 29.
Grand Union Sales Company, The. (See Hasbrouck, George G., assignor.)
Grayson, John H., Athens, Ohio. Gas-heater. No. 59,839; Nov. 29.
Harrington, William H., assignor to The Arrow Electric Company, Hartford, Conn. Attachment plug or connector. No. 59,840; Nov. 29.
Hasbrouck, George G., assignor to The Grand Union Sales Company, Inc., New York, N. Y. Sewing-machine-cover case. No. 59,841; Nov. 29.
Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Lens-blank. No. 59,842; Nov. 29.
Hinsley, Carl C., Detroit, Mich. Engine-casing. No. 59,843; Nov. 29.
Hough, Ruth P., South Pasadena, Calif. Romper. No. 59,844; Nov. 29.

Howe, Joseph, Jr., Kansas City, Mo. Lamp. No. 59,845; Nov. 29.
Ingram, Alfred and H., assignors to Ingrams Incorporated, Brooklyn, N. Y. Jar or similar article. No. 59,846; Nov. 29.
Ingram, Harry. (See Ingram, Alfred and H.)
Ingrams Incorporated. (See Ingram, Alfred and H., assignors.)
Irving Drew Company, The. (See Lloyd, Thomas C., assignor.)
Isaacs, Dorothy H., and L. B. Smith, Spirit Lake, Idaho. Doll. No. 59,847; Nov. 29.
King, Edward F., Wakefield, R. I. Tire-shoe horn. No. 59,848; Nov. 29.
Landers, Frary & Clark. (See Curtiss, George E., assignor.)
Lloyd, Thomas C., assignor to The Irving Drew Company, Portsmouth, Ohio. Sole for boots, shoes, or similar articles. No. 59,849; Nov. 29.
Lyons, John F., Seattle, Wash. Game-board. No. 59,850; Nov. 29.
Mandallian, Sahattiel G., North Attleboro, Mass. Bag-top. No. 59,851; Nov. 29.
Mendel, Abraham S., Brooklyn, N. Y. Lamp-shade. No. 59,852; Nov. 29.
Mogurowsky, Max, New York, N. Y. Watchcase. No. 59,853; Nov. 29.
Moser, Ethel A., Redlands, Calif. Doll, statuette, or miniature figure. No. 59,854; Nov. 29.
Nahlan, Reuben, West Hoboken, N. J. Toy broom. No. 59,855; Nov. 29.
Nellinger, Samuel, New York, N. Y. Trimming for ladies' wearing-apparel. Nos. 59,856–9; Nov. 29.
Nelson, William J., assignor to J. P. Gordon, Rockford, Ill. Belt-buckle. No. 59,860; Nov. 29.
Nixon, Miles G., Chicago, Ill. Pistol-guide. No. 59,861; Nov. 29.
Osborn-Crew Manufacturing Company, The. (See Rose Samuel L., assignor.)
Paleton, Leon S., Orange, N. J., assignor to Westinghouse Lamp Company. Dispensing-cabinet. No. 59,862; Nov. 29.
Palmberg, Stone G. (See Quandee, A. A., and Palmberg.)
Pappas, George H., Baltimore, Md. Candy. No. 59,863; Nov. 29.
Pastir, Frank B., Barberton, Ohio. Toy balloon. Nos. 59,864–5; Nov. 29.
Paternostro, Luca, Dallas, Tex. Heel-brace for shoes. Nos. 59,866–7; Nov. 29.
Phinney, Elisha A., Pawtucket, R. I. Watch-bow. No. 59,868; Nov. 29.
Quandee, Alvin A., and S. G. Palmberg, Chicago, Ill. Combination fork and spoon. No. 59,869; Nov. 29.
Rice, Irving W., New York, N. Y. Display-case. Nos. 59,870–1; Nov. 29.
Rose, Samuel L., assignor to The Osborn-Crew Manufacturing Company, Cleveland, Ohio. Toy wagon. No. 59,872; Nov. 29.
Schumacher, Elmer L., and W. H. Boutelle, assignors to American Optical Company, Southbridge, Mass. Frame member of an ophthalmic mounting. No. 59,873; Nov. 29.
Seiger, M., & Son. (See Seiger, Morres, assignor.)
Seiger, Morres, assignor to M. Seiger & Son, New York, N. Y. Ring or similar article of manufacture. No. 59,874; Nov. 29.
Selimik, Christian, Cleveland, Ohio. Flag-holder. No. 59,875; Nov. 29.
Shipley, Robert M. (See Dennis, E. C., and Shipley.)
Smith, Lowa B. (See Isaacs, D. H., and Smith.)
Stahl, Rodolphe, assignor to Benjamin Briscoe & Stahl Engineering Co., Inc., Detroit, Mich. Radiator for automobiles. No. 59,876; Nov. 29.
Taylor, Lucius L., Waupun, Wis. Air-injector for pumps. No. 59,877; Nov. 29.
Tin Decorating Company of Baltimore, The. (See Connor, Martha H., assignor.)
Travers, Anthony, Fairhaven, Mass. Radiator-cap ornament. No. 59,878; Nov. 29.
Washerette Corporation. (See Finucane, John J., assignor.)
Weidlich Bros. Mfg. Co., The. (See Flauder, Alfred J., assignor.)
Westinghouse Lamp Company. (See Paleton, Leon S., assignor.)
Whitnell, Charles O., Des Moines, Iowa. Ventilator. No. 59,879; Nov. 29.
Wurm, Henry G., Yonkers, N. Y. Leather, wall-paper, or similar article of manufacture. Nos. 59,880–1; Nov. 29.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Aachener Thermalwasser "Kaiserbrunnen" Aktiengesellschaft, Aachen, Germany. Natural thermal water. No. 148,775; Nov. 29.

Alsace Lorraine Development & Trading Company, Limited, London, England. Rhine wine. No. 148,777; Nov. 29.

American Automobile Accessories Company, The, Cincinnati, Ohio. Portable repair kits. No. 148,778; Nov. 29.

American Pacific Company, Inc., San Francisco, Calif. Gasolene, lubricating-oils, &c. No. 148,779; Nov. 29.

American Stamping Company, Elizabeth, N. J. Certain toys stamped from sheet metal. No. 148,780; Nov. 29.

Andrews, Marcus P., Richmond, Va. Brooms for applying stucco. No. 148,781; Nov. 29.

Asfour, Sayda, Brooklyn, N. Y. Medicated salve for the treatment of cuts or bruises. No. 148,782; Nov. 29.

Atlantic Rubber Mfg. Corporation, New York, N. Y. Dental rubber and dams, holder for dental use, and plaster-bowls. No. 148,783; Nov. 29.

Attias Brothers, New York, N. Y. Infants' clothing. No. 148,784; Nov. 29.

Automobile Owners' Tire Corporation, St. Paul, Minn. Automobile tires and tubes of rubber. No. 148,785; Nov. 29.

Bakers' Products Company, The, Cleveland, Ohio. Oil compound used in the baking of food products. No. 148,786; Nov. 29.

Bastian-Morley Co., Laporte, Ind. Gas water-heaters. No. 148,787; Nov. 29.

Bates, Linden W., Mount Lebanon, N. Y. Stable mobile fuel. No. 148,788; Nov. 29.

Bausch & Lomb Optical Co., Rochester, N. Y. Certain optical products, engineering and other instruments of precision. No. 148,789; Nov. 29.

Bianchini, Férier, Lyon, France. Piece goods of silk, wool, linen, cotton, &c. No. 148,790; Nov. 29.

Blanke, C. F., Sales Company, St. Louis, Mo. Prepared biscuit, cake, &c., flours. No. 148,791; Nov. 29.

Boegfeldt, George, & Co., New York, N. Y. Dolls. No. 148,792; Nov. 29.

California Growers' Association, Inc., Los Angeles, Calif. Canned fruits, vegetables, and olives. No. 148,793; Nov. 29.

Campbell, Donald S., Salt Lake City, Utah. Certain medicinal mineral water. No. 148,794; Nov. 29.

Carney, Thomas A., Butte, Mont. Deodorant compound. No. 148,795; Nov. 29.

Cassatt, Edward B., Cleveland, Ohio. Manufactured leather. No. 148,796; Nov. 29.

Charles William Stores, Inc., The, Brooklyn, N. Y. Cream-separators. No. 148,798; Nov. 29.

Challenger, Edgr. O., New York, N. Y. Kansas hard-wheat patent-flour. No. 148,797; Nov. 29.

Chicago Tanning Co., Chicago, Ill. Leathers. No. 148,799; Nov. 29.

Colgate & Company, Jersey City, N. J. Soaps. Nos. 148,800–3; Nov. 29.

Columbus McKinnon Chain Company, The, Columbus, Ohio, Chains. No. 148,804; Nov. 29.

Consolidated Tool Works, Inc., New York, N. Y. Hammers, hatchets, files, hand saws, ice-picks, &c. No. 148,805; Nov. 29.

Corning International Corporation, New York, N. Y. Lubricating oils and greases. No. 148,806; Nov. 29.

Corona Cord Tire Company, East Butler, Pa. Automobile-tire casing and tubes composed of rubber. No. 148,807; Nov. 29.

Croker Packing Co., San Francisco, Calif. Canned fruits and vegetables, fruit preserves. No. 148,808; Nov. 29.

Cupples Company Manufacturers, St. Louis, Mo. Rubber tires and tubes. No. 148,810; Nov. 29.

Cunningham Piano Company, Philadelphia, Pa. Talking-machines. No. 148,809; Nov. 29.

Damschinsky, Carl, New York, N. Y. Hair-restoratives. No. 148,811; Nov. 29.

Dayton Milling Company, Dayton, Tenn. Pastry-flour made from wheat. No. 148,812; Nov. 29.

Dean & Williams Co., Chicago, Ill., and Harbor Springs, Mich. Toy auto dump-truck. No. 148,813; Nov. 29.

Dilas, George S., & Company, Bay City, Mich. Bonbons and chocolates. No. 148,814; Nov. 29.

Dobbs, John F., Salem, Oreg. Soap in paste form. No. 148,815; Nov. 29.

Donahey, William, Chicago, Ill. Cut-out dolls. No. 148,816; Nov. 29.

Dreyfus, Leo, New York, N. Y. Aromatic alkaline powder for mouth and tooth washes. No. 148,817; Nov. 29.

Drug Products Co., Inc., New York, N. Y. Certain chemical and medicinal preparations. No. 148,818; Nov. 29.

Du Pont, E. I., de Nemours & Company, Wilmington, Del. Dyestuffs. No. 148,810; Nov. 29.

Eagle Pencil Company, New York, N. Y. Lead-pencils. No. 148,820; Nov. 29.

Easterbrook Allcard & Co. Limited, Sheffield, England. Certain metal-working tools, vises, saws, spanners, and wrenches, &c. No. 148,821; Nov. 29.

Eastern District Piece Dye Works, Inc., Brooklyn, N. Y. Silk piece goods. No. 148,822; Nov. 29.

Eastern Felt Company, Winchester, Mass. Felt polishing-wheels and felts therefor. No. 148,823; Nov. 29.

Eastern Tube & Tool Company, Inc., Brooklyn, N. Y. Armored conductors and flexible steel conduits. No. 148,824; Nov. 29.

Elk Manufacturing Company, Jellico, Tenn. Food-flavoring extracts. No. 148,825; Nov. 29.

Ely & Walker Dry Goods Company, St. Louis, Mo. Housedresses and aprons. No. 148,826; Nov. 29.

Ennisson, W. Jay, New York, N. Y. Parlor baseball games. No. 148,827; Nov. 29.

Eppinger, Lou J., Detroit, Mich. Artificial fishing-baits. No. 148,828; Nov. 29.

Erwin Cotton Mills Co., The, West Durham, N. C. Denims in the piece. No. 148,829; Nov. 29.

Essex Rubber Company, Trenton, N. J. Rubber and composition soles and heels. No. 148,830; Nov. 29.

Fauda, Carlo O., San Francisco, Calif. Certain medicinal preparations. No. 148,831; Nov. 29.

Fleisher, W. L., & Co., Inc., New York, N. Y. Driers and spray-nozzles. No. 148,832; Nov. 29.

Franklin Peanut Company, Franklin, Va. Peanuts in the shell. No. 148,833; Nov. 29.

French-American Import Co., Boston, Mass. Shoes of leather and of leather and fabric. No. 148,834; Nov. 29.

Frontier Chemical Co., Buffalo, N. Y. Cleaner for cleaning metal before electroplating the same. No. 148,835; Nov. 29.

Galloway, George W., New York, N. Y. Chemical solution for the removal of obstructions in drain-pipes. No. 148,836; Nov. 29.

Garin, George P., Chicago, Ill. Bank deposit-books. No. 148,837; Nov. 29.

General Electric Company, Schenectady, N. Y. Certain glassware. Nos. 148,838–9; Nov. 29.

Goldstein, Neumann & Co., (now by change of name The Neumann Company, Inc.,) Chicago, Ill. Men's and young men's suits and overcoats. No. 148,840; Nov. 29.

Goodfriend, Samuel H., Chicago, Ill. Mouth-wash. No. 148,841; Nov. 29.

Gray & Davis Inc., Cambridge, Mass. Electric engine-starting systems, ignition and generating systems, switches, and electric lamps. No. 148,842; Nov. 29.

Gregory, Mayer & Thom Co., Detroit, Mich. Certain stationery. No. 148,901; Nov. 29.

Grenoville, Marie M. R. Vve, Asnières, France. Perfumes, toilet waters, face-powder, &c. Nos. 148,842–5; Nov. 29.

Grenoville, Marie M. R. Vve., Asnières, France. Shaving-soaps. No. 148,846; Nov. 29.

Grenoville, Marie M. R. Vve., Asnières, France. Perfumes, toilet waters, face-powder, &c. No. 148,847; Nov. 29.

Grenoville, Marie M. R. Vve., Asnières, France. Eau-de-cologne. No. 148,848; Nov. 29.

Grenoville, Marie M. R. Vve., Asnières, France. Perfumes, toilet waters, face-powder, &c. No. 148,849; Nov. 29.

Hadley Bros.-Uhl Company, St. Louis, Mo. Rubber cement. No. 148,850; Nov. 29.

Halcomb Steel Company, Syracuse, N. Y. Ferrous alloy steels. Nos. 148,851–4; Nov. 29.

Hand, J. A., Son Co., Moosic, Pa. Preparation for killing flies and lice. No. 148,855; Nov. 29.

Hausdorf, Erich, Charlottenburg, Germany. Telephonic apparatus. No. 148,856; Nov. 29.

Hide Leather & Belting Co., Indianapolis, Ind. Leather belting. No. 148,857; Nov. 29.

Holliday, Francis L., Westerly, R. I. Preparation for the treatment of asthma. No. 148,858; Nov. 29.

Hooton Cocoa Company, Newark, N. J. Sweet chocolate. No. 148,859; Nov. 29.

Horsman, E. I., & Aetna Doll Co. Inc., New York, N. Y. Dolls. No. 148,860; Nov. 29.

Hoyt, Howard H., Candy Co., Chicago, Ill. Candy. No. 148,861; Nov. 29.

Hurd, George B., & Co., New York, N. Y. Playing-cards. No. 148,862; Nov. 29.

Hymes, Abraham, New York, N. Y. Yarns. No. 148,863; Nov. 29.

Hyman Manufacturing Co., Chicago, Ill. Cleansing compound for household use. No. 148,864; Nov. 29.

Indiana Indestructible Paint Co., Chicago, Ill. Flat paint for finishing interior walls, &c. No. 148,865; Nov. 29.

Industrial Chemical Company, New York, N. Y. Certain chemical and medicinal preparations. No. 148,866; Nov. 29.

Ingalls Brothers, Manchester, N. H. Medicine for the treatment of asthma. No. 148,867; Nov. 29.

International Drug Company, Wilmington, Del. Certain medicinal, toilet, and chemical preparations. No. 148,888; Nov. 29.
International Shoe Company, St. Louis, Mo. Men's, women's, and children's shoes of leather, rubber, fabric, &c. No. 148,900; Nov. 29.
Ironbeo Trading Corporation, New York, N. Y. Certain rubber, composition, textile, celluloid, wood, paper, and metal toys. No. 148,870; Nov. 29.
Iroquois Beverage Company, Inc., Buffalo, N. Y. Non-alcoholic carbonated beverages. No. 148,871; Nov. 29.
Jackson, Emma B., Helena, Ark. Hair-grower, dressing-oil, shampoo, &c. No. 148,872; Nov. 29.
Jensens, Georg. Sølvvaregade 1/3., Copenhagen, Denmark. Jewelry and flat hollow ware. No. 148,886; Nov. 29.
Jones, Cumberland P., Chicago, Ill. Certain medicinal preparations. No. 148,875; Nov. 29.
Jordan Marsh Company, Boston, Mass. Leather footballs. No. 148,876; Nov. 29.
Josephine Chocolates, Limited, London, England. Chocolates. No. 148,878; Nov. 29.
Kelsall & Kemp Limited, Rochdale, England. Flannel, woolen cloths, haircloths, &c., in the piece. No. 148,876; Nov. 29.
Kentucky Distilleries & Warehouse Co., New York, N. Y. Denatured alcohol. No. 148,877; Nov. 29.
Koch, Barbara, Grand Forks, N. D. Poultices for infected wounds. No. 148,878; Nov. 29.
Koenig, Harry A., Philadelphia, Pa. Fuel-economizers—namely, air-feeding devices for coal and gas stoves and furnaces. No. 148,879; Nov. 29.
Kubanek, Ludmila, Lorain, Ohio. Medicine for influenza, colds, cholera, and pneumonia. No. 148,880; Nov. 29.
Laird, John H., assignor to Laird Manufacturing Company, Louisville, Ky. Electric headlights. No. 148,881; Nov. 29.
Laird Manufacturing Company. (See Laird, John H., assignor.)
Lambora & Co., New York, N. Y. Belting made from canvas, treated canvas, or leather. No. 148,882; Nov. 29.
Lane, William, Inc., Brooklyn, N. Y. Leather shoes. No. 148,883; Nov. 29.
Layman, Abraham, Philadelphia, Pa. Drum-belting. No. 148,884; Nov. 29.
Leesmann, Waldemar & Sons, Brooklyn, N. Y. Preparation for restoring hair to its natural color and removing dandruff. No. 148,885; Nov. 29.
Levarac Paper Products Corporation, New York, N. Y. Certain paper and stationery. No. 148,886; Nov. 29.
Levy, Walter M., New York, N. Y. Jersey cloth in the piece. No. 148,887; Nov. 29.
Lewis, L. H., Company, Dallas, Tex. Certain articles of clothing. No. 148,888; Nov. 29.
Lincoln Chemical Company, Minneapolis, Minn. Cleaning and polishing liquids for varnished or enamel surfaces. No. 148,889; Nov. 29.
Lincoln Dental Mfg. Co., Philadelphia, Pa. Teeth-crowns. No. 148,890; Nov. 29.
Lincoln, Edward E., New York, N. Y. Lubricating-oil. No. 148,891; Nov. 29.
Loegler, Chretien, Clifton, N. J., assignor to Monica Textile Corporation. Certain woven fabrics in the piece. No. 148,892; Nov. 29.
Loose-Wiles Biscuit Company, Kansas City, Mo. Candy. No. 148,893; Nov. 29.
Lunkenheimer Company, The, Cincinnati, Ohio. Certain valves, cocks, pipe-fittings, nozzles, &c. No. 148,894; Nov. 29.
Maag, Edward, New York, N. Y. Upholstery and drapery trimmings. No. 148,895; Nov. 29.
Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. No. 148,897; Nov. 29.
Malt-A-Milk Company of America, Kansas City, Mo. Chocolate malted milk. No. 148,898; Nov. 29.
Marer, Ralph L., Columbus, Ohio. Salve for tender, sore, torn, or lacerated body-tissues. No. 148,899; Nov. 29.
Mayer, G. M., New York, N. Y. Scissors, shears, pocket-knives, and razors. No. 148,900; Nov. 29.
Melba Manufacturing Company, Chicago, Ill. Perfumes, face-powders, toilet water, &c. No. 148,902; Nov. 29.
Millikin, Hugh E., Niagara Falls, N. Y. Publications. No. 148,903; Nov. 29.
Monica Textile Corporation. (See Loegler, Chretien, assignor.)
National Licorice Company, Brooklyn, N. Y. Licorice candy. No. 148,904; Nov. 29.
Nedro Laboratories, Inc., New York, N. Y. General tonic. No. 148,905; Nov. 29.
Nestlé's Food Company, Inc., New York, N. Y. Unsweetened evaporated milk. No. 148,906; Nov. 29.
Neverset Hosiery Mills, Inc., New York, N. Y. Hosiery and underwear of knitted, netted, and textile fabrics. No. 148,907; Nov. 29.
New York Recording Laboratories, The, Port Washington, Wis. Phonographs and phonograph-records, record-albums, &c. No. 148,908; Nov. 29.
Oelbaum Bros. & Bauer, New York, N. Y. Boys' shirts and blouses. No. 148,909; Nov. 29.
Pacific Aluminum Company, Fresno, Calif. Certain aluminum cooking utensils. No. 148,910; Nov. 29.
Pacific Mills, Lawrence and Boston, Mass. Cotton serge in the piece. No. 148,911; Nov. 29.
Pamano, Robert G., New York, N. Y. Gummed tape. No. 148,912; Nov. 29.
Patrick, F. A., & Co., Duluth, Minn. Certain articles of clothing. No. 148,913; Nov. 29.
Penmans Limited, Paris, Ontario, Canada. Knitted underwear, hosiery, sweater, and jersey coats. No. 148,914; Nov. 29.
Penn Textile Company, New York, N. Y. Piece textile fabrics. No. 148,915; Nov. 29.
Phenix Chemical Company, Memphis, Tenn. Medicine for rheumatism, gout, sciatica, lumbago, &c. No. 148,916; Nov. 29.
Price, William H., Jr., Akron, Ohio. Dancing dolls. No. 148,917; Nov. 29.
Raymond, Roy A., Oakland, Calif. Cleaning compound for carpets, rugs, silks, &c. No. 148,935; Nov. 29.
Reach, A. J., Company, Philadelphia, Pa. Golf-balls. No. 148,936; Nov. 29.
Red Ball Company, The, Madrid, Iowa. Maltless fruit beverages. No. 148,937; Nov. 29.
Red Jacket Consolidated Coal and Coke Company, Red Jacket, W. Va. Coal and coke. No. 148,938; Nov. 29.
Reed & Carnrick, Jersey City, N. J. Medicine for phthisis, neurasthenia, constipation, &c. No. 148,939; Nov. 29.
Reiss & Tousley, Lima, Ohio. Nutcrackers made of metal. No. 148,940; Nov. 29.
Reliance Manufacturing Company, Chicago, Ill. Work-shirts. No. 148,941; Nov. 29.
Richardson Corporation, Rochester, N. Y. Cocoa syrup used in making soft drinks. No. 148,942; Nov. 29.
Rosenwald & Weil, Inc., Chicago, Ill. Overcoats, raincoats, pants and vests. No. 148,943; Nov. 29.
Rothschild, Singer, St. Louis, Mo. Medicamental tablets. No. 148,944; Nov. 29.
Rounick, Max, Philadelphia, Pa. Hosiery for men, women, and children. No. 148,945; Nov. 29.
Schwartz, S. Robert, & Bro., New York, N. Y. Portable electric lamps. No. 148,918; Nov. 29.
Scott's Preparations Inc., New York, N. Y. Toilet and medicinal preparation used as a facial and body massage cream and used and as a skin curative. No. 148,919; Nov. 29.
Sears Equipment Company, Inc., Rome, N. Y. Lubricating oils and greases. No. 148,920; Nov. 29.
Sears, Roebuck and Co., Chicago, Ill. Outer suits for men and boys. No. 148,921; Nov. 29.
Sebon, Stevenson and Company, Huntington, W. Va. Coffee. No. 148,922; Nov. 29.
Shanklin Manufacturing Company, Springfield, Ill. Acetylene-lamps. No. 148,923; Nov. 29.
Sky Rail Company, The, Fort Wayne, Ind. Perforated-disk-throwing games. No. 148,924; Nov. 29.
Smith-Hecht Co., Indianapolis, Ind. Electric sign. No. 148,925; Nov. 29.
Smooth Soldering Paste Co., Inc., The, Tonawanda, N. Y. Soldering-pastes. No. 148,926; Nov. 29.
Snow, Harry M., Kalamazoo, Mich. Steam, hot-water and hot-air heaters and furnaces using gas or oil. No. 148,927; Nov. 29.
Sophie Mae Candy Corporation, The, Atlanta, Ga. Candy. No. 148,928; Nov. 29.
South, Jerome J., Memphis, Tenn. Lubricating motor-oil, cup-greases, &c. No. 148,929; Nov. 29.
Spalding, A. G., & Bros., New York, N. Y. Golf-clubs. No. 148,930; Nov. 29.
Stein, Henry J., Boston, Mass. Syrups, flavors, and flavoring extracts for soft drinks. No. 148,931; Nov. 29.
Stone, Chas. D., Company, Chicago, Ill. Snap-fasteners for garments. No. 148,932; Nov. 29.
Strathmore Paper Company, West Springfield, Mass. Unsensitised photographic and blue-print papers. No. 148,933; Nov. 29.
Swift & Company, Chicago, Ill. Soap. No. 148,934; Nov. 29.
Taylor, Artie N., Mrs., St. Joseph, Mo. Ointment for use in treating the scalp. No. 148,946; Nov. 29.
Texas Company, The, Houston, Tex., and New York, N. Y. Petroleum products. No. 148,947; Nov. 29.
Thayer, Henry, & Co. Inc., Cambridge, Mass. Pharmaceutical preparations. No. 148,948; Nov. 29.
Tillin Products, Inc., Long Island City, N. Y. Ginger-ale, lemon-soda, cream-soda, &c. No. 148,949; Nov. 29.
Turner Manufacturing Co., The, Port Washington, Wis. Internal-combustion engines. No. 148,950; Nov. 29.
Ulrici Medicine Co., New York, N. Y. Remedies for diseases of the throat, nasal organs, and lungs. No. 148,951; Nov. 29.
Ulrici Medicine Co., New York, N. Y. Tonic for anemia and nervous diseases. No. 148,952; Nov. 29.
United Belt Manufacturing Company, St. Louis, Mo. Leather belting. No. 148,953; Nov. 29.
Universal Tobacco Machine Co., New York, N. Y. Tobacco-working machinery. No. 148,954; Nov. 29.
Voy, Alfred F., Rockford, Ill. Fishing-tackle case. No. 148,955; Nov. 29.
Vulcan Crucible Steel Company, Aliquippa, Pa. Tool-steel. No. 148,956; Nov. 29.
Walther, Louis, Manufacturing Company, Philadelphia, Pa. Worsted, woolen, worsted and cotton, and worsted and silk piece goods. No. 148,957; Nov. 29.
Walton Hosiery Mills, Statesville, N. C. Ladies' and children's cotton, wool, and silk hosiery. No. 148,958; Nov. 29.
Wensel, Paul M., Philadelphia, Pa. Tooth-powder and mouth-lotion. No. 148,959; Nov. 29.
Western Bottle Manufacturing Company, Chicago, Ill. Hair-nets. No. 148,960; Nov. 29.

Werler, Goldstein & Co., Philadelphia, Pa. Dolls. No. 148,961; Nov. 29.
White, H. C., Company, North Bennington, Vt. Four-wheeled play-wagons and coasters for children. No. 148,962; Nov. 29.
Wiegand, Edwin L., Pittsburgh, Pa. Electrical heating and resistor elements, particularly electric-radiator-heating units. No. 148,963; Nov. 29.
Wrigley, Wm., Jr., Company, Chicago, Ill. Sugar-coated chewing-gum. No. 148,964; Nov. 29.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Lime Cola Company, Montgomery, Ala. "Bottle Decoration." (For Lime Cola.) No. 23,717; Nov. 29.
R. & R. Handkerchief Co., New York, N. Y. "A Child's Handkerchief for Every Day in the Week." (For Boxes for Handkerchiefs.) No. 23,718; Nov. 29.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Aldea, Betty, Food Shoppe, Newark, N. J. Candy. No. 148,811; Nov. 29.
Alexander, Henry F., M. D., Knoxville, Tenn. Medicine for acidity, flatulency, dyspepsia, &c. No. 150,650; Nov. 29.
All Saints Cigar Company, Tampa, Fla. Cigars. No. 148,991; Nov. 29.
Aluminum Flake Company, The, Akron, Ohio. Finely-divided clay product for use as a raw material in the preparation of rubber compound. No. 151,502; Nov. 29.
Amboy Products Co., Chicago, Ill. Canned goods, cereals, coffee, &c. No. 141,842; Nov. 29.
American Hard Rubber Company, New York, N. Y. Combs for the hair. No. 153,590; Nov. 29.
American Plastic Products Corporation, The, New York, N. Y. Containers—namely, candy-boxes. No. 153,634; Nov. 29.
American Radiator Company, East Orange, N. J., and Chicago, Ill. Expansion-tanks and heating systems. No. 139,616; Nov. 29.
American Seating Company, Chicago, Ill. Church, school, theater, and office furniture. No. 152,226; Nov. 29.
Anaheim Citrus Fruit Association, Anaheim, Calif. Fresh citrus fruits. No. 130,564; Nov. 29.
Asbestos Ltd., New York, N. Y. Heat insulating packings. No. 151,606; Nov. 29.
Barley Motor Car Company, Kalamazoo, Mich. Automobiles. No. 150,694; Nov. 29.
Bartley-Ralston Co., The, Chicago, Ill. Headlight-lenses. No. 151,530; Nov. 29.
Beckwith-O'Neill Company, Minneapolis, Minn. Cabinets in which sound-producing machines are mounted. No. 147,762; Nov. 29.
Benson, Ralph W., New York, N. Y. Machinery packing. No. 147,890; Nov. 29.
Best, Grant, Detroit, Mich. Vitamin compound. No. 151,201; Nov. 29.
Bhutia & Pratt, Mountain View, N. J. Certain medicinal and pharmaceutical preparation. No. 151,533; Nov. 29.
Blacker, Dory C., Indianapolis, Ind. Seasoning preparations for soups, meats, vegetables and fruits. No. 150,506; Nov. 29.
Bloch Bros. Tobacco Co., The, Wheeling, W. Va. Cigarettes. No. 148,068; Nov. 29.
Blue Cross Chemical Co., Inc., The, Newark, N. J. Preparations for whooping-cough, catarrh, bronchitis, &c. No. 151,030; Nov. 29.
Bodine Electric Company, Chicago, Ill. Monthly publication. No. 151,253; Nov. 29.
Booth Fisheries Company, Chicago, Ill. Canned sardines. No. 148,574; Nov. 29.
Breuner, John, Company, Sacramento, Calif. Tables, chairs, buffets, &c. No. 148,418; Nov. 29.
Brunswick-Balke-Collender Company, The, Wilmington, Del., and Chicago, Ill. Refrigerators. No. 154,678; Nov. 29.
Buffalo Forge Company, Buffalo, N. Y. Hot-blast heating and ventilating systems, air-conditioning apparatus, and parts thereof, &c. No. 148,067; Nov. 29.
Bullock, Ernest W., Grand Rapids, Mich. Healting-lotion. No. 152,047; Nov. 29.
California Growers Association, Inc., Los Angeles, Calif. Canned fruits and vegetables, olives, olive-oil. No. 148,579; Nov. 29.
Cement Export Company, Inc., New York, N. Y. Portland cement. No. 137,407; Nov. 29.
Chase & Chase, Jacksonville, Fla. Fresh citrus fruits. No. 148,870; Nov. 29.
Cheramy, Incorporated, New York, N. Y. Brilliantine face-cream, toilet water, perfume. No. 152,065; Nov. 29.
Chicago Eye Shield Company, Chicago, Ill. Eyeshields and protectors. No. 148,287; Nov. 29.
Choc-Lo Food Company, Highland Park, Mich. Filler and flavor for pies, puddings, and cakes. No. 124,388; Nov. 29.
Coatesville Boiler Works, Coatesville, Pa. Steel tanks. No. 150,134; Nov. 29.
Colby Steel and Engineering Co., Seattle, Wash. Catalogues and trade journals. No. 141,626; Nov. 29.
Colgate & Company, Jersey City, N. Y. Soaps. No. 152,935; Nov. 29.
Consolidated Companies Inc., Plaquemine, Morgan City, St. Martinsville, New Roads and White Castle, La. Chewing and smoking tobacco. No. 145,996; Nov. 29.
Coon, W. B., Company, Rochester, N. Y. Boots, shoes, slippers. No. 149,270; Nov. 29.
Costa, Joseph S., New York, N. Y. Malt-syrup for food purposes. No. 146,065; Nov. 29.
Costogue, Nicholas D., New York, N. Y. Dried fruits. No. 149,732; Nov. 29.
Curtiss Aeroplane and Motor Corporation, Buffalo and Garden City, N. Y. Airplanes. No. 138,909; Nov. 29.
Dairymen's League Co-operative Association, Inc., Utica, N. Y. Butter, condensed and evaporated milks. No. 149,687; Nov. 29.
Dakota Compound Company, Pierre, S. D. Compound for removing and preventing scale and rust in boilers, radiators, &c. No. 152,742; Nov. 29.
Davidson, Laura K., Los Angeles, Calif. Hand-painted china. No. 145,154; Nov. 29.
Demartini, L., Supply Co., San Francisco, Calif. Egg composition for making cream centers, fondant, &c. No. 139,961; Nov. 29.
Demartini, L., Supply Company, San Francisco, Calif. Bottled and canned liquid compound of Mexican vanilla-beans, vanillin, and coumarin, uncolored. No. 141,417; Nov. 29.
Dettra, John C., & Company, Inc., Oaks, Pa. Athletic underwear. No. 147,716; Nov. 29.
Dilas, Harry, Bay City, Mich. Candy. No. 145,826; Nov. 29.
Douglas Chemical Laboratories, Inc., Chicago, Ill. Laxative pills. No. 144,281; Nov. 29.
Dubar Company, Baltimore, Md. Lithographic solution. No. 149,633; Nov. 29.
Dulle-Meyer Milling Company, Chamois, Mo. Self-rising flour. No. 151,786; Nov. 29.
Economic Materials Co., Chicago, Ill. Filling for cream-puffs, eclairs, &c. No. 151,265; Nov. 29.
Eisenberg, S., & Sons, New York, N. Y. Cotton fabrics in the piece. No. 150,442; Nov. 29.
Empire State Dairy Company, The, Brooklyn, N. Y. Canned condensed and evaporated milks. No. 149,740; Nov. 29.
Erb, George T., Maspeth, N. Y. Aspirin. No. 135,747; Nov. 29.
Fey, Jacob M., Hazleton, Pa. Coffee, mayonnaise, peanut-butter, horse-radish. No. 141,833; Nov. 29.
Fisher Flouring Mills Company, Seattle, Wash. Wheat-flour. No. 144,673; Nov. 29.
Flory, A. B., Canton, Ohio. Bread, butter, coffee, candy, &c. No. 121,174; Nov. 29.
Foley, Francis P., Philadelphia, Pa. Substance for exterminating rats. No. 151,579; Nov. 29.
Folger, J. A., & Co., San Francisco, Calif. Coffee, tea, spices, &c. No. 150,663; Nov. 29.
Franklin, Simon & Co. Inc., New York, N. Y. Clothing No. 152,798; Nov. 29.
Gabilla, Henrietta, Paris, France. Toilet preparations. No. 151,085; Nov. 29.
Galdo Duisaides y Cia. Almacenistas de Ferreteria S. A., Cardenas, Cuba. Roofing-paper. No. 136,370; Nov. 29.
Gilbert Bros. & Co. Inc., Baltimore, Md. Liniment for treatment of nerve, muscular, and like troubles, cuts, stings, &c. No. 152,077; Nov. 29.
Glass, Henry, & Co., New York, N. Y. Cotton piece goods. No. 137,612; Nov. 29.
Gong Bell Manufacturing Co., The, East Hampton, Conn. Toy graphophones and telephones. No. 152,006; Nov. 29.
Goodman, A. L. Ice. No. 151,829; Nov. 29.
Goodman-McCabe Products Co., Detroit, Mich. Automobile and furniture polish. No. 152,348; Nov. 29.
Graff-O-Products Co., The, Cleveland, Ohio. Penetrating graphite oil. No. 152,998; Nov. 29.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Graves, Charles W., Logansport, Ind. Breakfast cereals and breads. No. 137,990; Nov. 29.
Grossman, Esther, New York, N. Y. Insecticide and vermicide. No. 150,190; Nov. 29.
Gude Bros. Co., Washington, D. C. Natural flowers and plants. No. 152,707; Nov. 29.
H. & E. Cigar Company, Lancaster, Pa. Cigars. No. 145,748; Nov. 29.
Hana, Baruch & Co., Los Angeles, Calif. Canned goods, jams, jellies, &c. No. 143,147; Nov. 29.
Hansen's, Chr. Laboratory, Inc., Little Falls, N. Y. Preparations for coagulating or curdling milk. No. 146,561; Nov. 29.
Harley, E. C., Company, The, Dayton, Ohio. Canned fruits and vegetables, jam, &c. No. 141,100; Nov. 29.
Harris & Carr, Messrs. Cobb, Peddle, Limited, for glass scratch pads, tablets, &c. No. 151,270; Nov. 29.
Hartman, Milton, Detroit, Mich. Pamphlets, circulars, &c. No. 139,889; Nov. 29.
Havasmile Company, The, Boston, Mass. Candy. No. 143,497; Nov. 29.
Hebe Company, The, Chicago, Ill., and Seattle, Wash. Compound of evaporated skimmed milk and vegetable fat. No. 117,012; Nov. 29.
Heine Safety Boiler Co., St. Louis, Mo. Water-tube boilers. No. 151,946; Nov. 29.
Heim, Martha A., New York, N. Y. Cleaning and polishing compound for automobile bodies, furniture, &c. No. 151,319; Nov. 29.
Hepburn, Gale, and Ross, Limited, assignors to Barrow, Hepburn & Gale Ltd., London, England. Trunks, portmanteaus, &c. No. 137,800; Nov. 29.
Hirsch, Louis, Brooklyn, N. Y. Wool and silk knitting-yarns. No. 152,931; Nov. 29.
Hollander, A., & Son, Inc., Newark, N. J. Fur skins. No. 133,059; Nov. 29.
Hollingshead, R. M., Co., The, Camden, N. J. All-rubber patch adhesive outfit. No. 152,366; Nov. 29.
Hoeven & Allison Company, The, Xenia, Ohio. Cordage. Nos. 135,646–7; Nov. 29.
Houser, Lester K., New York, N. Y. Daily publications relating to horse-racing, &c. No. 152,469; Nov. 29.
Hovey, Burton M., New York, N. Y. Glass substitute. No. 141,106; Nov. 29.
Hussmann, Harry L., Refrigerator & Supply Company, St. Louis, Mo. Freezer display-counter. No. 150,810; Nov. 29.
Hymson, Charles E., Louisville, Ky. Overalls. No. 148,738; Nov. 29.
Inland Rubber Company, Chicago, Ill. Automobile rubber tires. No. 152,257; Nov. 29.
International Bedding Co., Baltimore, Md. Mattresses, pillows, box-springs. Nos. 144,190–1; Nov. 29.
Isola Gesellschaft für Wärme- und Kälte-isollerung, Rudolstadt, Germany. Double-walled receptacles for keeping cold or warm foods, &c. No. 147,784; Nov. 29.
Italy Commercial Co., New York, N. Y. Pure olive oil. No. 141,525; Nov. 29.
K.-H. Co., Canton, Ohio. Preparation for the treatment of eczema. No. 139,617; Nov. 29.
Kayser, Julius, & Co., New York, N. Y. Bandeaux. No. 146,563; Nov. 29.
Kirk, George W., Jeffersonville, Ind. Pile preparation. No. 152,017; Nov. 29.
Kirk Partners & Forestbrook Ltd., Belfast, Ireland. Linen and hemp and union piece goods. No. 152,568; Nov. 29.
Kissel Motor Car Company, The, Hartford, Wis. Automobiles. No. 138,444; Nov. 29.
Krieghoff Company, Detroit, Mich. Cementitious surfacing material for floor or walls. No. 120,962; Nov. 29.
Kuhlken, Hermann, Brooklyn, N. Y. Mayonnaise dressing. No. 147,676; Nov. 29.
L. G. & S. S. Co., Boston, Mass. Heel-linings. No. 148,660; Nov. 29.
Larabee Flour Mills Corporation, The, Kansas City, Mo. Wheat-flour. No. 133,361; Nov. 29.
Lexington Motor Company, Connersville, Ind. Passenger motor-cars and commercial motor-vehicles. No. 149,764; Nov. 29.
Libbe, Leona, Inc., New York, N. Y. Lotion to be applied to the face to stimulate blood circulation. No. 152,712; Nov. 29.
Libby, McNeill & Libby, Chicago, Ill. Corned beef. No. 150,241; Nov. 29.
Los Angeles Soap Co., Los Angeles, Calif. Toilet soap. No. 152,266; Nov. 29.
Magnesium Products Co. Inc., New York, N. Y. Cream of magnesia. No. 134,256; Nov. 29.
Magnolia Textile Corporation, New Orleans, La. Sewing-yarn. No. 144,343; Nov. 29.
Mainzer, Adolf, New York, N. Y. Apricot marmalade. No. 150,709; Nov. 29.
Marble, B. L., Chair Company, The, Bedford, Ohio. Chairs, settees, costumers, sofas. No. 139,654; Nov. 29.
Matheny, D. C., Chattanooga, Tenn. Healing salve for hemorrhoids, cuts, &c. No. 146,572; Nov. 29.
Marcus, Eugene H., Los Angeles, Calif. Glandular preparation used as a general tonic. No. 152,963; Nov. 29.
Matson Lace & Braid Company, Boston, Mass. Garment-lacings. No. 151,095; Nov. 29.
May, Clarence, Chicago, Ill. Candy. No. 149,499; Nov. 29.
McCrary, John N., High Point, N. C. Cigars. No. 145,657; Nov. 29.
Magnesium Products Co. Inc., New York, N. Y. Decarbonizer for internal-combustion engines. No. 134,258; Nov. 29.
Merchants Trade Journal, Inc., Des Moines, Iowa. Section of a trade journal. No. 152,179; Nov. 29.
Merck & Co., New York, N. Y. Preparation used in medicine in the form of potatoes. No. 153,009; Nov. 29.
Meyer, Bernard M., Louisville, Ky. Stogies. No. 143,880; Nov. 29.
Mi Favorite Cigar Company, Inc., New York, N. Y. Cigars. No. 146,852; Nov. 29.
Miller, Charles M., Company, Boston, Mass. Candies. No. 149,483; Nov. 29.
Mitchell, L., & Co., Chicago, Ill. Washing-powder. No. 128,788; Nov. 29.
Monkey Rubber Co., Inc., Oklahoma, Okla. Rubber patches. No. 150,815; Nov. 29.
National Dry Kiln Co., The, Indianapolis, Ind. Flexible sheet material for lining dry-kiln doors, &c. No. 151,860; Nov. 29.
National Independent Oil Company, York, Pa. Lubricating oils and greases, gasolene, etc. No. 151,719; Nov. 29.
National Vinegar Company, St. Louis, Mo. Vinegar. No. 143,654; Nov. 29.
New York Tribune Inc., New York, N. Y. Title for a newspaper column. No. 152,697; Nov. 29.
Newton, Henry, Company, The, Spokane, Wash. Pile remedy. No. 150,270; Nov. 29.
Niemau, Eva, Cincinnati, Ohio. Illustrated mailing-cards. No. 150,079; Nov. 29.
Nulty, James T., Philadelphia, Pa. Preparation for treatment of eczema, pyorrhea, chafing, &c. No. 150,224; Nov. 29.
Nuttleman, Fred H., Westhoff, Tex. Cigars. No. 142,903; Nov. 29.
O'Elhiren, Y. F., & Son, Tampa, Fla. Cigars. No. 148,776; Nov. 29.
Ohio Dairy Company, Connellsville, Pa. Oleomargarin. No. 151,600; Nov. 29.
Old Baldy Citrus Association, Upland, Calif. Fresh citrus fruits. No. 151,282; Nov. 29.
Pectin Sales Co., Inc., Rochester, N. Y. Concentrated fruit pectin. No. 145,588; Nov. 29.
Pensak, Michael, New York, N. Y. Hosiery. No. 148,754; Nov. 29.
Perkins, A. E., Corporation, The, Dallas, Tex. Cleaner for white canvas shoes. No. 149,911; Nov. 29.
Perkins, A. E., Corporation, The, Dallas, Tex. Colorrestorer and polish for leather shoes. No. 149,912; Nov. 29.
Phillips-Trawick Company, Nashville, Tenn. Coffee. No. 151,290; Nov. 29.
Planten, H., & Son, Inc., Brooklyn, N. Y. Prophylactic ointment. Nos. 150,560–1; Nov. 29.
Pollack, Max, & Co. Inc., New York, N. Y. Sewing-threads. No. 153,991; Nov. 29.
Pollock, Robert B., Los Angeles, Calif. Garment patterns. No. 141,803; Nov. 29.
Raybestos Company, The, Bridgeport, Conn. Brake-lining. No. 152,183; Nov. 29.
Reliance Coal and Coke Co., Cincinnati, Ohio. Coal. No. 152,482; Nov. 29.
Reliance Milling Company, Murphysboro, Ill. Self-rising wheat-flour. No. 150,531; Nov. 29.
Rhodes, Claxton P., San Francisco, Calif. Mouthpiece-holders for tobacco products. No. 147,309; Nov. 29.
Richardson, R. M., & Co., San Francisco, Calif. Candy. No. 152,460; Nov. 29.
Richardson Silk Company, Chicago, Ill., and New York, N. Y. Cotton threads and yarns. No. 151,563; Nov. 29.
Robertson, H. H., Company, Pittsburgh, Pa. Protected metal sheets for building constructions, flashings, gutters, &c. No. 125,251; Nov. 29.
Rosenthal, Maurice, San Francisco, Calif. Cigars. Nos. 145,684–5; Nov. 29.
Rounds, G., San Francisco, Calif. Popcorn crisps. No. 150,334; Nov. 29.
Russell Manufacturing Company, The, Middletown, Conn. Automobile brake-lining. No. 131,060; Nov. 29.
Salsburg Refining Company, Ltd., Lauderdale, La. Sugar, syrups, and molasses. No. 147,329; Nov. 22.
Samoset Chocolates Company, Boston, Mass. Candy. No. 147,897; Nov. 29.
Sawyer, John W., Afton, Okla. Medicine for mountain-fever, kidney trouble, colds, &c. No. 141,865; Nov. 29.
Schafer, Henry S., Boston, Pa. Sausage, bacon, ham, and scrapple. No. 147,812; Nov. 29.
Schearer, J., & Company, Orlando, Fla. Chemical preparation for spraying vegetation. No. 149,187; Nov. 29.
Schoenfeld Bros. Incorporated, New York, N. Y. Scarfs, cravats, neckties. No. 149,885; Nov. 29.
Schwartz, F., and Son, Allentown, Pa. Boys' suits, overcoats, pants. No. 145,942; Nov. 29.
Seckary, John G., Scranton, Pa. Salad-dressing. No. 150,939; Nov. 29.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Sexton, John, and Company, Chicago, Ill. Matches. No. 153,828; Nov. 29.
Sheffield Condensed Milk Co. Inc., New York, N. Y. Evaporated and condensed milks. No. 151,188; Nov. 29.
Silverman & Gast, Chester, Pa. Cigars. No. 147,172; Nov. 29.
Simons, Ernest, Mfg. Co., Port Chester, N. Y. Sheets and pillow-cases. No. 149,827; Nov. 29.
Smith-Kirk Candy Co., The, Toledo, Ohio. Candy. No. 146,336; Nov. 29.
Sohl & Company, Seattle, Wash. Wood products. No. 137,969; Nov. 29.
Spencer, Helen S., Denver, Colo. Fabrics, garments, robes, blankets, pads, &c., having magnet-wire interwoven within. No. 152,811; Nov. 29.
Springstead, Ervin A., Palmetto, Fla. Fresh citrus fruits. No. 148,136; Nov. 29.
St. John, Frank, Minneapolis, Minn. Film-cement. No. 142,838; Nov. 29.
Standard Ultramarine Co., The, Huntington, W. Va. Laundry blue. No. 152,726; Nov. 29.
Steen, John A., Varnish Company, Chicago, Ill. Rapid-drying varnish binder, and varnish. No. 153,371; Nov. 29.
Steinberger Bros. Inc., New York, N. Y. Silk, wool, cotton, and linen yarns and mixtures thereof. No. 152,657; Nov. 29.
Stollwerck Brothers, Inc., Stamford, Conn., assignor to The Stollwerck Chocolate Company, Boston, Mass. Milk, cocoa, cocoa milk chocolate, chocolate, and unsweetened chocolate. No. 114,549; Nov. 29.
Stollwerck Chocolate Company. (See Stollwerck Brothers, Inc., assignor.)
Stone-Stearns Co., Chicago, Ill. Dress snap-fasteners and press-buttons. No. 146,849; Nov. 29.
Taylor's, Santa Ana, Calif. Candies and chocolates. No. 151,105; Nov. 29.
Thompson, William B., Los Angeles, Calif. Surgical appliances. No. 152,047; Nov. 29.
Thomson-Diggs Company, The, Sacramento, Calif. Cotton and wool waste. No. 148,179; Nov. 29.
Tolerton & Warfield Co., Sioux City, Iowa. Canned goods, tea, coffee, &c. No. 88,375; Nov. 29.
Toombs, F. A., & Co., Brooklyn, N. Y. Embroidery cord and thread. No. 144,056; Nov. 29.
Uhry, Felix, Chicago, Ill. Shaving preparation, hand-lotions, face-powders, &c. No. 133,290; Nov. 29.
United Danish Butter Association, Inc., New York, N. Y. Butter. No. 144,593; Nov. 29.
United States Gypsum Company, Chicago, Ill. Plaster wall-board. No. 143,414; Nov. 29.
Vallbona, Buenaventura B., Barcelona, Spain. Alimentary oils. No. 135,600; Nov. 29.
"Vita Products," Inc., Baltimore, Md. General tonic. No. 151,894; Nov. 29.
Wallace & Co., Brooklyn, N. Y. Candies and chocolates. No. 151,190; Nov. 29.
Ward Baking Company, New York, N. Y. Sugar product used as an ingredient in the manufacture of bread, cake, &c. No. 148,569; Nov. 29.
Weis, H. and S., Sunbury, Pa. Oleomargarin. No. 147,268; Nov. 29.
Welch, Joseph F., Gardner, Mass. Cigars. No. 145,539; Nov. 29.
Wheeling Corrugating Company, Wheeling, W. Va. Stovepipe. No. 152,492; Nov. 29.
Wigan Bros., Inc., New York, N. Y. Cake. No. 151,191; Nov. 29.
Wilder & Company, Chicago, Ill. Taps for boots and shoes. No. 148,630; Nov. 29.
Wildman Cigar Co. Inc., The, Seattle, Wash. Cigars. No. 144,094; Nov. 29.
Wildstein, Morytz H., New York, N. Y. Rye bread. No. 151,845; Nov. 29.
Wilson, Viola B., Americus, Ga. Salve or ointment for the hair. No. 135,308; Nov. 29.
Wright, Charles G., Philadelphia, Pa. Repair-patches for rubber goods. No. 152,109; Nov. 29.
Yellow Cab Manufacturing Co., Chicago, Ill. Passenger-automobiles. No. 151,971; Nov. 29.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 29TH DAY OF NOVEMBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Acetylene-generator. J. W. Cain. No. 1,398,673; Nov. 29.
Acid, Producing highly-concentrated hydrochloric. J. Fredriksson. No. 1,398,224; Nov. 29.
Acid-resisting iron. P. D. Schenck. No. 1,398,918; Nov. 29.
Aerial torpedo or mine. M. Wildrick. No. 1,398,290; Nov. 29.
Aeroplane. W. Lamar. No. 1,398,729; Nov. 29.
Aeroplane. J. H. Rea. No. 1,398,484; Nov. 29.
Aeroplane. J. H. Stewart. No. 1,398,750; Nov. 29.
Aeroplanes, Motor-fuel for. W. T. Schreiber. No. 1,398,947; Nov. 29.
Air-brake systems, Safety attachment for. W. M. Moore. No. 1,398,906; Nov. 29.
Air-compressing apparatus. H. J. Appleton. No. 1,398,261; Nov. 29.
Air-filter. J. A. Gordon. No. 1,398,665; Nov. 29.
Air-lake, Auxiliary. C. B. Shaaf. No. 1,398,906; Nov. 29.
Air-lift booster. H. B. Halvorsen. No. 1,398,550; Nov. 29.
Aircraft-engines, Fuel supply and regulating system for. B. H. Cawthra. No. 1,398,215; Nov. 29.
Airplane-motor to develop its full power at high altitudes, Enabling an. F. I. Raymond. No. 1,398,280; Nov. 29.
Airplanes, Radiator for. C. B. Kirkham. No. 1,398,380; Nov. 29.
Alarm: *See*—
Burglar-alarm. Incubator-alarm.
Detonating-alarm.
Alarm. J. M. Butcher. No. 1,398,585; Nov. 29.
Alarm mechanism. F. V. Pepper. No. 1,398,840; Nov. 29.
Alarm system. R. M. Hopkins. No. 1,398,593; Nov. 29.
Ammeters, Means for calibrating. A. H. Hoyt. No. 1,398,595; Nov. 29.
Amusement apparatus. J. A. Healy. No. 1,398,514; Nov. 29.
Amusement device (circulating whip). E. Kohler. No. 1,398,639; Nov. 29.
Angle-tool, Combination. H. A. Landis. No. 1,398,234; Nov. 29.
Animal-cover. R. T. Lasche. No. 1,398,281; Nov. 29.
Animal-feeding device. I. Mattson. No. 1,398,336; Nov. 29.
Annealing or otherwise treating metals, Apparatus for use in. A. Howgate. No. 1,398,520; Nov. 29.
Antiskid device. S. Beker. No. 1,398,356; Nov. 29.
Armor, Bullet-proof. T. de Dragic and A. Schwarz. No. 1,398,682; Nov. 29.
Automobile-bumper. R. T. Newton. (Reissue.) No. 15,228; Nov. 29.
Automobile-check. W. McNamee. No. 1,398,440; Nov. 29.
Automobile-license fastener. E. B. Shaw. No. 1,398,401; Nov. 29.
Automobile license-tag, Auxiliary. F. D. Johnson and H. Cullaway. No. 1,398,492; Nov. 29.
Automobile-lock. E. Lupiow. No. 1,398,905; Nov. 29.
Automobile-radiator. A. Fürst. No. 1,398,774; Nov. 29.
Automobile-signal. L. W. Scala. No. 1,398,923; Nov. 29.
Automobile tool-box. H. W. Allis. No. 1,398,884; Nov. 29.
Automobiles and other vehicles, Spring-suspension for. H. E. Syler. No. 1,398,812; Nov. 29.
Automobiles, Automatic life-saving fender for. E. S. Jones. No. 1,398,434; Nov. 29.
Automobiles, Combined door-joint protector and name-plate for. P. Curry. No. 1,398,586; Nov. 29.
Automobiles, Signal device for. W. P. Carroll. No. 1,398,677; Nov. 29.
Auxiliary lock. R. D. Paterson. No. 1,398,465; Nov. 29.
Axle. G. F. Morgan. No. 1,398,240; Nov. 29.
Balancing-machine. J. Lundgren. No. 1,398,533; Nov. 29.
Barrel-assembling machine. F. Podsiad. No. 1,398,737; Nov. 29.
Barrel, Metallic shipping. W. C. Irvin. No. 1,398,298; Nov. 29.
Baskets, Corner-irons for. F. W. Goedeke. No. 1,398,371; Nov. 29.
Bath combination and nozzle. B. F. Gable. No. 1,398,941; Nov. 29.
Battery: *See*—
Flashlight-battery.
Battery-cell, Storage. F. Engel. No. 1,398,847; Nov. 29.
Battery-cover. G. J. Bundy. No. 1,398,358; Nov. 29.
Bearing. E. G. Acheson, Jr. Nos. 1,398,219–20; Nov. 29.
Bearing, Antifriction-. H. M. Perry. No. 1,398,390; Nov. 29.
Bearing material. R. H. Waite. No. 1,398,926; Nov. 29.
Bed or attachment therefor. M. C. Nixon. No. 1,398,271; Nov. 29.
Bed, Sofa-. R. B. Homer. No. 1,398,824; Nov. 29.
Bench-leg, Collapsible. J. S. Smart. No. 1,398,471; Nov. 29.
Binder for sheets, leaves, &c. H. M. Morris. No. 1,398,387; Nov. 29.
Binder, Loose-leaf. S. E. Day. No. 1,398,540; Nov. 29.
Binder, Loose-leaf. W. F. Dunning. No. 1,398,422; Nov. 29.
Binder, Loose-leaf. W. H. Murphy. No. 1,398,388; Nov. 29.
Binder, Loose-leaf. A. R. Selden. No. 1,398,806; Nov. 29.
Bit: *See*—
Extension boring-bit.
Block: *See*—
Building-block. Wall-block.
Boat, Flying-. L. D. Reed. No. 1,398,467; Nov. 29.
Boat lifting and launching mechanism. D. Maggi. No. 1,398,702; Nov. 29.
Boiler: *See*—
Water-tube boiler.
Boll-weevil eradicator. G. W. Mobley. No. 1,398,589; Nov. 29.
Bolts or rivets, Device for supporting washers while upsetting the coöperating. C. Maunders. No. 1,398,268; Nov. 29.
Book cover, Sales-. E. E. Strawn. No. 1,398,530; Nov. 29.
Boring-bit, Extension. L. S. Hayden. No. 1,398,780; Nov. 29.
Boring-drill. G. W. Hanson. No. 1,398,551; Nov. 29.
Box: *See*—
Automobile tool-box. Sheet-metal box.
Fuse switch-box. Wire-bound box.
Bracket: *See*—
Joist-bracket.
Braiding-machine. X. Pfrunder. No. 1,398,444; Nov. 29.
Brake: *See*—
Coaster-brake.
Brake, Mechanical. M. D. Maloney. No. 1,398,876; Nov. 29.
Brush, Air-. A. Shelburne. No. 1,398,920; Nov. 29.
Brush, Polishing. C. H. Anderson. No. 1,398,772; Nov. 29.
Brush, Scrub-. M. E. Kelly. No. 1,398,864; Nov. 29.
Brushes, Drip-guard for. F. Gaede. No. 1,398,894; Nov. 29.
Bucket, Cableway excavating-. E. H. Fallenstein. No. 1,398,425; Nov. 29.
Bucket, Excavating-. W. M. Venable. No. 1,398,479; Nov. 29.
Buckle, Apparel-belt. K. Dougan. Nos. 1,398,632–3; Nov. 29.
Building-block. K. E. W. Jagdmann. (Reissue.) No. 15,227; Nov. 29.
Burglar-alarm. W. B. Stephens. No. 1,398,924; Nov. 29.
Burner: *See*—
Gas-burner. Oil-burner.
Burner. J. Clary. No. 1,398,839; Nov. 29.
Cabinet. J. F. Schylander. No. 1,398,744; Nov. 29.
Caissons, cofferdams, and the like. Construction of. C. S. Boardman. No. 1,398,221; Nov. 29.
Calculating-machine. A. Rechnitzer. No. 1,398,945; Nov. 29.
Camera-back. J. Tessier. No. 1,398,950; Nov. 29.
Cans and other containers, Apparatus for and method of sterilizing milk-. A. L. Dunham. No. 1,398,508; Nov. 29.
Car construction, Railway-. H. S. Hart. No. 1,398,512; Nov. 29.
Car-controlling mechanism, Mine-. G. Foster. No. 1,398,896; Nov. 29.
Car, Convertible box-. A. Campbell. No. 1,398,675; Nov. 29.
Car end, Corrugated sheet-metal. W. P. Murphy. Nos. 1,398,643–4; Nov. 29.
Car, Cycle-. L. M. Payne, L. A. Miller, and J. J. Douglas. No. 1,398,498; Nov. 29.
Car, Dump-. H. S. Hart. No. 1,398,375; Nov. 29.
Car, Dump-. D. Hindahl. No. 1,398,517; Nov. 29.
Car end, Vertically-reinforced sheet-metal. W. P. Murphy. No. 1,398,645; Nov. 29.
Car-heater, Electric. L. P. Hynes. No. 1,398,522; Nov. 29.

Car-heating system, Electric. L. P. Hynes. No. 1,398,521; Nov. 29.
Car-platforms, Foot-warmer for. L. Loeser. No. 1,398,884; Nov. 29.
Car-rail hose-bridge. C. P. Tyler. No. 1,398,497; Nov. 29.
Car, Railway-. F. A. Miller. No. 1,398,550; Nov. 29.
Cars, &c., Compressed-air mechanism for motor-. M. Adenot. No. 1,398,255; Nov. 29.
Cars, Corrugated metal end for railway-. C. T. Osterberg. No. 1,398,241; Nov. 29.
Cars, Corrugated metal end for railway-. W. F. Woolard. No. 1,398,249; Nov. 29.
Cars, Dome-cover for oil-. W. K. Bonham. No. 1,398,832; Nov. 29.
Cars, Friction draft-gear for railway-. J. F. O'Connor. No. 1,398,704; Nov. 29.
Cars, Reinforced end for box-. G. A. Johnson. No. 1,398,697; Nov. 29.
Cars, Stake for flat-. M. Markhuis. No. 1,398,441; Nov. 29.
Carbureter. W. G. Hemenway. No. 1,398,459; Nov. 29.
Carbureter. P. Landis. No. 1,398,640; Nov. 29.
Card and making same, Coin-. H. H. Steele. No. 1,398,607; Nov. 29.
Card, Sample-. E. Hirtz. No. 1,398,421; Nov. 29.
Carrier: *See*—
Color-screen carrier.
Carts, Tractor-coupling for sugar-. H. F. Baggies. No. 1,398,575; Nov. 29.
Casement-holder. W. L. Burtis. No. 1,398,768; Nov. 29.
Cash, Printing device for registering. W. Kolbe. No. 1,398,435; Nov. 29.
Cash-register. B. M. Shipley. No. 1,398,576; Nov. 29.
Casing-pulling apparatus. J. H. Wilson. No. 1,398,822; Nov. 29.
Cell, Dry. H. de Olaneta. No. 1,398,366; Nov. 29.
Cell, Electrolytic. J. Cranston and W. D. Le Bar. No. 1,398,784; Nov. 29.
Cellulose-acetate composition. A. F. Sulzer. No. 1,398,949; Nov. 29.
Cellulose-ester composition. H. T. Clarke. No. 1,398,989; Nov. 29.
Cement-block machine. J. H. Pearson. No. 1,398,442; Nov. 29.
Chain-repair tool. H. Mathis. No. 1,398,876; Nov. 29.
Chain, Safety-. J. J. Schneider. No. 1,398,803; Nov. 29.
Chain tightening and releasing device. E. Green. No. 1,398,548; Nov. 29.
Chains, Making cast. R. R. Rust. No. 1,398,706; Nov. 29.
Chair: *See*—
Folding chair.
Chair and bed, Folding. F. Blando. No. 1,398,253; Nov. 29.
Change-maker. G. F. McGill. No. 1,398,299; Nov. 29.
Charging device. R. S. Richards. No. 1,398,649; Nov. 29.
Check-book. W. H. W. Hamilton. No. 1,398,508; Nov. 29.
Check-protector, Pocket. O. K. Linscott. No. 1,398,235; Nov. 29.
Chuck. E. L. Pfunder. No. 1,398,341; Nov. 29.
Cider-press. A. Bartlemay. No. 1,398,252; Nov. 29.
Cigar and cigarette holder. G. Lampessas. No. 1,398,560; Nov. 29.
Cleaner: *See*—
Dish-cleaner.
Cleaning metals, Method of and composition for. J. H. Gravell. No. 1,398,507; Nov. 29.
Clock-frame. P. Lux. No. 1,398,597; Nov. 29.
Closet-seat lids, Automatic opening mechanism for. G. E. Kinch. No. 1,398,556; Nov. 29.
Cloth-cutting and pattern-marking machine. J. A. and H. Rosenfeld. No. 1,398,396; Nov. 29.
Clothes-wringers, Drain-pan for. W. H. Meyer. No. 1,398,337; Nov. 29.
Clothometer-gage. J. Th. Pedersen. No. 1,398,565; Nov. 29.
Clutch, &c., Friction-. P. E. Nordquist. No. 1,398,564; Nov. 29.
Clutch, Friction-. W. G. Hawley. No. 1,398,554; Nov. 29
Clutch mechanism. A. W. Harris. No. 1,398,552; Nov. 29.
Coal-mine curtain-rod. J. M. North. No. 1,398,909; Nov. 29.
Coaster-brake. A. J. Mottleu. No. 1,398,883; Nov. 29.
Cock, Stop or waste. J. G. King. No. 1,398,329; Nov. 29.
Coil-mounting. E. F. Gowen. No. 1,398,372; Nov. 29.
Coin-feed delivery apparatus. H. Brooker. No. 1,398,766; Nov. 29.
Collars, Pin for holding soft. I. S. Curtis. No. 1,398,483; Nov. 29.
Combination device. T. Kozlosky. No. 1,398,727; Nov. 29.
Combination-lock. C. H. and W. E. Gourlay. No. 1,398,506; Nov. 29.
Combustion, Means for promoting. C. McVeety. No. 1,398,300; Nov. 29.
Combustion, Treating and handling products of. F. L. McGahan. No. 1,398,734; Nov. 29.
Compressor-controlling mechanism. W. H. Wineman. Nos. 1,398,912–3; Nov. 29.
Concrete blocks, Machine for making. T. E. Hesselmann. No. 1,398,898; Nov. 29.
Concrete-wall mold. C. S. Porter. No. 1,398,915; Nov. 29.
Condenser and making same. A. Pruessman. (Reissue.) No. 15,241; Nov. 29.
Connecting-rod aliner. S. M. Campbell. No. 1,398,359; Nov. 29.
Cooker, Pressure-. A. R. Thompson. No. 1,398,476; Nov. 29.
Cooking device. E. A. Weingarten. No. 1,398,757; Nov. 29.
Cooking or heating vessel and apparatus, Electric. C. H. Lauth. Nos. 1,398,966–7; Nov. 29.
Core, Collapsible. F. Meyer. No. 1,398,236; Nov. 29.
Corset. S. Thomas. No. 1,398,607; Nov. 29.
Cot, Folding. C. D. Winfield. No. 1,398,753; Nov. 29.
Cotter-pin extractor. E. R. Galebach. No. 1,398,543; Nov. 29.
Cotton-picker's sack. S. N. Aker. No. 1,398,826; Nov. 29.
Cotton picking and cleaning. G. E. Bennett. No. 1,398,930; Nov. 29.
Cotton product and making same. R. W. Jacoby. No. 1,398,278; Nov. 29.
Coupling. H. E. Phelps. No. 1,398,276; Nov. 29.
Cover-lock. G. A. Burnham. No. 1,398,409; Nov. 29.
Current apparatus, Protecting device for multiphase alternating. J. R. Beard. No. 1,398,620; Nov. 29.
Current-collector. I. D. Shipper. No. 1,398,800; Nov. 29.
Curtain-rod. J. B. Akers. No. 1,398,411; Nov. 29.
Cutter: *See*—
Hand twine-cutter. Paper-cutter.
Cylinder-lapping tool. W. A. Salter. No. 1,398,393; Nov. 29.
Cylinders and pistons, Treating. O. W. Gerleman. No. 1,398,775; Nov. 29.
Damper-regulator. F. Gray. No. 1,398,895; Nov. 29.
Dental radiographs, Appliance for holding films for. T. B. S. Wallace. No. 1,398,247; Nov. 29.
Desk. J. Milchasis. No. 1,398,237; Nov. 29.
Desk-pad. M. Weinman. No. 1,398,340; Nov. 29.
Detonating-alarm. W. H. Cook. No. 1,398,382; Nov. 29.
Dial-lock. E. C. Lewis. No. 1,398,642; Nov. 29.
Die-casting machine. G. W. Bungay. No. 1,398,314; Nov. 29.
Direction-indicator. J. Cuper. No. 1,398,715; Nov. 29.
Dish-cleaner. C. D. Armstrong. No. 1,398,664; Nov. 29.
Disk records, Indicator or measuring-gage for. O. Boehnert. No. 1,398,710; Nov. 29.
Disks, Feeding device for sealing-. C. W. Kendall. No. 1,398,724; Nov. 29.
Dispensing apparatus. A. Weber, L. Vooresanger, and A. Keller. No. 1,398,348; Nov. 29.
Display apparatus, Luminous. L. B. Buchner. No. 1,398,835; Nov. 29.
Display device, Sample-. J. Davidson. No. 1,398,364; Nov. 29.
Distillation, Fractionate. F. Hansgirg. No. 1,398,856; Nov. 29.
Dividers. R. L. Livingston. No. 1,398,871; Nov. 29.
Dock. P. van Affaire. No. 1,398,825; Nov. 29.
Door-closer. T. E. Collins. No. 1,398,317; Nov. 29.
Door closer and check. C. Enache. No. 1,398,504; Nov. 29.
Door-lock. G. Erne. No. 1,398,369; Nov. 29.
Doors, Releasing device for poultry-house. R. L. Bennington. No. 1,398,629; Nov. 29.
Dough-roll and rolling-pin. B. L. Braddick. No. 1,398,621; Nov. 29.
Draft attachment. J. A. Graham. No 1,398,547; Nov 29.
Drag scraping apparatus. W. E. Hale. No. 1,398,897; Nov. 29.
Drier: *See*—
Laundry-drier.
Drill: *See*—
Boring-drill.
Drill M. Tanenbaum. No. 1,398,814; Nov. 29.
Drills, Chuck for taper and straight shank. B. Parmenter. No. 1,398,304; Nov. 29.
Dump-trough-operating apparatus, Automatic. E. L. Upp. No. 1,398,818; Nov. 29.
Dumping-trough-cover-operating mechanism. W. H. Johnston. No. 1,398,863; Nov. 29.
Dyeing fibers, threads, or fabrics. J. F. Briggs and C. W. Palmer. No. 1,398,557; Nov. 29.
Easel. A. Hermansson. No. 1,398,516; Nov. 29.
Eaves-trough. T. Byrd. No. 1,398,415; Nov. 29.
Edge-turning machine. F. J. McDonald. No. 1,398,786; Nov. 29.
Egg-turnover pan. J. A. Smith. No. 1,398,655; Nov. 29.
Eggs, Freezing and preserving. J. M. Hussey. No. 1,398,560; Nov. 29.
Elastic step-mat. W. MacPherson. No. 1,398,701; Nov. 29.
Electric switch. H. F. Waite. No. 1,398,580; Nov. 29.
Electric thermo-regulator. E. H. Ruediger. No. 1,398,281; Nov. 29.
Electrical indicating and measuring device. H. W. Hitchcock. No. 1,398,266; Nov. 29.
Electrical resistance apparatus. P. H. Dawe. No. 1,398,630; Nov. 29.
Electrical water-level-indicating apparatus and other electrical apparatus, Electrode for. W. D. Mickum. No. 1,398,270; Nov. 29.
Electromagnetic instrument. T. L. Lee. No. 1,398,463; Nov. 29.
Elevators, Car-stopping attachment for. W. S. Allyn. No. 1,398,619; Nov. 29.

Embedding process. E. L. Wiegand. No. 1,398,610; Nov. 29.
Embroidering mechanism. J. A. Grosbil. No. 1,398,590; Nov. 29.
Engine: *See*—
Drive-engine. Internal-combustion engine.
Engine-drive. E. A. Ford. No. 1,398,266; Nov. 29.
Engines, Attachment for hydrocarbon-. T. R. Turner and J. A. Nesbitt. No. 1,398,406; Nov. 29.
Engines, Cylinder for internal-combustion. A. H. R. Fedden and L. F. G. Butler. No. 1,398,849; Nov. 29.
Engines, Hand and foot accelerator for carburetors of automobile. W. E. Clough. No. 1,398,625; Nov. 29.
Engines, Ignition and combustion of combustibles in internal-combustion. H. Pieper. No. 1,398,944; Nov. 29.
Engines, Ignition apparatus for internal-combustion. V. W. Ellsworth and F. A. Hoyt. No. 1,398,491; Nov. 29.
Engines, Ignition sparking-plug for internal-combustion. F. L. Rapson. No. 1,398,797; Nov. 29.
Engines, Piston for reciprocatory. S. D. Hartog. No. 1,398,669; Nov. 29.
Engines, Self-starting device for internal-combustion. F. L. Rapson. No. 1,398,796; Nov. 29.
Engines, Valve-gear for internal-combustion. A. J. Rowledge. No. 1,398,851; Nov. 29.
Excavating-bucket and operating means therefor. F. W. Bond. No. 1,398,222; Nov. 29.
Explosives, Manufacture of nitrostarch. J. B. Bronstein. No. 1,398,931; Nov. 29.
Fabric, Terry or looped. P. Taylor. No. 1,398,702; Nov. 29.
Fastener. E. M. Watkins. No. 1,398,288; Nov. 29.
Fastening, Machine for inserting. A. Bates. No. 1,398,265; Nov. 29.
Faucet and attaching-bracket. O. S. Burman. No. 1,398,767; Nov. 29.
Fastener-feeding mechanism. W. C. Stewart. No. 1,398,540; Nov. 29.
Ferro-cyanids, Producing. F. S. Washburn. No. 1,398,453; Nov. 29.
Fibers, Treatment of vegetable. C. Schwartz. No. 1,398,864; Nov. 29.
File, Memorandum-. G. H. Hohnsbeen. Nos. 1,398,591–2; Nov. 29.
Film-cleaning machine. H. A. Sührcke. No. 1,398,811; Nov. 29.
Film-clip and order-tab holder. G. M. Dye. No. 1,398,423; Nov. 29.
Film-holder. A. E. Chapman. No. 1,398,988; Nov. 29.
Film-holding device. J. F. Grever and T. S. Fox. No. 1,398,458; Nov. 29.
Filtering apparatus. I. B. Tanner. No. 1,398,285; Nov. 29.
Fishing appliance. E. R. Gillette. No. 1,398,717; Nov. 29.
Fishing-reel. R. W. Harradine. No. 1,398,429; Nov. 29.
Fishing-reel. G. A. Higbee. No. 1,398,721; Nov. 29.
Flag. G. S. Henritzy. No. 1,398,555; Nov. 29.
Flag. J. H. Herbener. No. 1,398,876; Nov. 29.
Flashlight. A. C. Recker. No. 1,398,799; Nov. 29.
Flashlight-battery. H. H. Hipwell. No. 1,398,518; Nov. 29.
Fluid-controlled actuating means. S. F. Arbuckle. No. 1,398,291; Nov. 29.
Fluid mixtures, Desiccating. J. C. MacLachlan. No. 1,398,735; Nov. 29.
Flying-machine. C. E. and W. G. Hicks. No. 1,398,781; Nov. 29.
Flying-machine. G. W. Riley. No. 1,398,393; Nov. 29.
Flying-machine. R. M. Smith. No. 1,398,923; Nov. 29.
Folding chair. J. Groome. No. 1,398,854; Nov. 29.
Fortune-telling device. F. Knowles. No. 1,398,462; Nov. 29.
Frame: *See*—
Clock-frame.
Fruit or vegetable masher. A. T. Stewart. No. 1,398,473; Nov. 29.
Fuel-mixer. F. F. Hughes. No. 1,398,609; Nov. 29.
Fuel, Motor-. W. T. Schreiber. No. 1,398,948; Nov. 29.
Fur-stretcher. H. M. Montgomery. No. 1,398,907; Nov. 29.
Furnace: *See*—
Hot-air furnace.
Furniture-bumper. H. F. Tyler. No. 1,398,925; Nov. 29.
Fuse, Electric. W. B. La Pointe. No. 1,398,496; Nov. 29.
Fuse switch-box, Safety-. W. A. Heinrich and C. L. Matthews. No. 1,398,335; Nov. 29.
Gage: *See*—
Clothometer-gage. Micrometer taper gage.
Gage. M. Bartholdy. No. 1,398,511; Nov. 29.
Gage-cases, Retaining device for. C. H. Graesser and E. B. Crocker. No. 1,398,873; Nov. 29.
Gagging appliance. W. G. Wilson. No. 1,398,616; Nov. 29.
Game. J. Carter. No. 1,398,837; Nov. 29.
Game device. T. W. Hunrath. No. 1,398,511; Nov. 29.
Garment. M. M. Hershey. No. 1,398,720; Nov. 29.
Garment-presses, Tandem attachment for. W. E. Andrée. No. 1,398,627; Nov. 29.
Garnet or like wire to rollers or cylindrical surfaces, Means for applying. J. Dronsfield. No. 1,398,716; Nov. 29.
Gas-burner. G. B. Sharpe. No. 1,398,470; Nov. 29.
Gas fire, electric radiator, &c. C. Wray. No. 1,398,955; Nov. 29.
Gas-meters, Detachable diaphragm for. J. A. Klimelspach. No. 1,398,732; Nov. 29.
Gas, Process and apparatus for the manufacture of liquid sulfurous acid from dilute sulfurous acid. P. Pascal. No. 1,398,791; Nov. 29.
Gas-producer. F. Trauman. No. 1,398,609; Nov. 29.
Gas, Production of soot-carbon retort-graphite, and other carbon products from natural. I. Szarvassy and F. H. Benssl. No. 1,398,751; Nov. 29.
Gases, Apparatus for cleaning. A. G. McKee. No. 1,398,568; Nov. 29.
Gases from liquids, Extracting. F. S. Vincent. No. 1,398,668; Nov. 29.
Gases, Valve for controlling flow of. R. H. Davis. No. 1,398,845; Nov. 29.
Gases which have been absorbed by solids, Recovering. J. S. Morgan. No. 1,398,882; Nov. 29.
Gasket. J. B. Victor. No. 1,398,612; Nov. 29.
Gate. E. Lipska. No. 1,398,870; Nov. 29.
Gear, Apparatus for investigating an electrical gyroscopic firing-. A. von Appen. No. 1,398,628; Nov. 29.
Gear-cutting machine. M. Tibbetts. No. 1,398,477; Nov. 29.
Gear, Lifting or hauling. J. H. Walker. No. 1,398,756; Nov. 29.
Gear, Transmission-. C. Bearens. No. 1,398,763; Nov. 29.
Gearing. W. Brubaker. No. 1,398,255; Nov. 29.
Gearing, Quick-return pump-head. B. P. Fulda. No. 1,398,684; Nov. 29.
Gearing, Variable-speed. C. B. Chicken and G. Scott. No. 1,398,417; Nov. 29.
Generator: *See*—
Acetylene-generator. Steam-generator.
Generator-mounting. W. L. Bliss. Nos. 1,398,930–31; Nov. 29.
Gib-adjuster. M. E. Tibbels. No. 1,398,610; Nov. 29.
Glass-forming machines, Mold-clamp for. E. G. Bridges. No. 1,398,670; Nov. 29.
Gold by air pressure, Instrument for supplying comminuted. F. J. Muspratt. No. 1,398,527; Nov. 29.
Grader and field-ditcher, Two-wheel road-. A. Johnson. No. 1,398,326; Nov. 29.
Gradometer. C. A. Johnson. No. 1,398,433; Nov. 29.
Grain cleaner, separator, and drier. W. A. Petteys. No. 1,398,275; Nov. 29.
Grate-bars, Making. W. A. Leddell. No. 1,398,492; Nov. 29.
Grinder, Wood-pulp. W. R. Tidmarsh. No. 1,398,753; Nov. 29.
Grinding apparatus. F. M. Furber. No. 1,398,896; Nov. 29.
Gun-barrel built of an A-tube and a breech-piece. J. Vollmer. No. 1,398,810; Nov. 29.
Gun mounting and sighting apparatus. B. T. Hamilton. No. 1,398,668; Nov. 29.
Gyroscope-motors, Disk-shaped commutator for. H. Sundhaussen. No. 1,398,404; Nov. 29.
Hair-undulator. C. Fuchs-Maurer. No. 1,398,637; Nov. 29.
Handlamp. A. P. Paine. No. 1,398,736; Nov. 29.
Handle: *See*—
Detachable valve-handle.
Hanger: *See*—
Adjustable pipe-hanger.
Hanger. G. C. Hosch. No. 1,398,519; Nov. 29.
Hats, Mirror and comb holder for. G. Pesztersak. No. 1,398,273; Nov. 29.
Hayrack-lifter. E. Kane. No. 1,398,460; Nov. 29.
Hay-slings, Supporting means for. G. S. Sowers. No. 1,398,472; Nov. 29.
Hay stower or slide, Revolving. F. W. Leighton. No. 1,398,457; Nov. 29.
Headlight, Dirigible. J. M. Rohrer. No. 1,398,602; Nov. 29.
Headlight, Vehicle-. L. G. Wright. No. 1,398,923; Nov. 29.
Headlights, Controlling device for automobile. J. H. Gray. No. 1,398,262; Nov. 29.
Heat-resisting iron. P. D. Schenck. No. 1,398,917; Nov. 29.
Heater: *See*—
Electric car-heater. Water-heater.
Heating plant. F. H. Short. No. 1,398,921; Nov. 29.
Heel-blanks, Machine for arranging. R. C. Simmons. No. 1,398,845; Nov. 29.
Heel-building machine. J. H. Pope. No. 1,398,843; Nov. 29.
Heel, Interchangeable. E. A. Windsor. No. 1,398,662; Nov. 29.
Heels, Resilient cushion for. J. M. Combs. No. 1,398,627; Nov. 29.
Hitch structure. J. Q. Black. No. 1,398,812; Nov. 29.
Hog-holding device. C. Holding. No. 1,398,484; Nov. 29.
Hoisting apparatus. A. D. Lightner and E. Holmes. No. 1,398,531; Nov. 29.
Hood-catch. N. W. Cummins. No. 1,398,810; Nov. 29.
Hook: *See*—
Ice-hook.
Hook. T. J. Bond. No. 1,398,887; Nov. 29.
Hose-supporter. W. S. Hunkins. Nos. 1,398,486–8; Nov. 29.
Hot-air furnace. A. F. Harter. No. 1,398,264; Nov. 29.
Hydrobromic acid and apparatus therefor. C. W. Jones. No. 1,398,596; Nov. 29.

Hydrocarbon-motor. H. D. Church. No. 1,396,361; Nov. 29.
Hydrocarbon, Method of and apparatus for cracking. F. Fussing. (Reissue.) No. 15,240; Nov. 29.
Hydrogen-peroxid, Manufacture of. A. J. Schumacher. No. 1,396,443; Nov. 29.
Hydroplane. M. Whitehouse. No. 1,396,253; Nov. 29.
Ice-hook. J. H. Stenger. No. 1,396,295; Nov. 29.
Ignition-control. V. F. Mihalasek. No. 1,396,789; Nov. 29.
Incinerator. J. Goder. No. 1,396,718; Nov. 29.
Inebriate-alarm. W. H. Clarke. No. 1,396,537; Nov. 29.
Indicator: *See*—
Direction-indicator. Street-indicator.
Induction-coil. G. Pupilanti. No. 1,396,796; Nov. 29.
Induction-machines, System of control for. E. E. Hallmund. No. 1,396,515; Nov. 29.
Ingot-molds, Hot-top for. T. McNally and W. S. Orr. No. 1,396,574; Nov. 29.
Ingot-stripping mechanism. G. L. Danforth, Jr. No. 1,396,544; Nov. 29.
Ingots, Box for pouring steel. W. D. Bradford. No. 1,396,594; Nov. 29.
Inking-machine. L. J. Van Guelpen. No. 1,396,407; Nov. 29.
Inking-roller. C. L. Post. No. 1,396,910; Nov. 29.
Inner tube and making same. J. M. Combs. No. 1,396,940; Nov. 29.
Insulator, Suspension. M. Carolus. No. 1,396,857; Nov. 29.
Internal-combustion engine. E. V. Beals. No. 1,396,667; Nov. 29.
Internal-combustion engine. C. Buschino. No. 1,396,963; Nov. 29.
Internal-combustion engine. P. Hentschke. No. 1,396,430; Nov. 29.
Internal-combustion engine. B. B. Neutebcom. No. 1,396,706; Nov. 29.
Internal-combustion engine. H. C. Reading. No. 1,396,647; Nov. 29.
Internal-combustion engine. H. Wright. No. 1,396,854; Nov. 29.
Iron: *See*—
Acid-resisting iron. Heat-resisting iron.
Ironing-machine. C. E. Waresam and D. H. Benjamin. No. 1,396,948; Nov. 29.
Ironing-machines, Tandem attachment for. C. L. Braley. No. 1,396,634; Nov. 29.
Jack: *See*—
Lifting-jack.
Jack for motor and other vehicles, Lifting-. F. L. Rapson. No. 1,396,279; Nov. 29.
Jams, jellies, and marmalades of fruits, Making. E. Monti. No. 1,396,220; Nov. 29.
Joist-bracket. W. S. Tait. No. 1,396,579; Nov. 29.
Journal-lubricating device. I. S. Downing and E. S. Pearce. No. 1,396,502; Nov. 29.
Kaleidoscope. H. H. House. No. 1,396,953; Nov. 29.
Knitting instrument. J. F. Wilcomb. No. 1,396,521; Nov. 29.
Knitting-machine construction. W. Larkin. No. 1,396,965; Nov. 29.
Knitting-machines, Attachment for. W. C. Potter and E. H. Stines. No. 1,396,570; Nov. 29.
Knitting-machines, Stop-motion for. E. S. Hiseline. No. 1,396,604; Nov. 29.
Knitting-needle. S. C. Taft. No. 1,396,818; Nov. 29.
Knives, &c., Grinder or sharpener for. J. M. Rose. No. 1,396,741; Nov. 29.
Labeling-machine. H. G. Dewey and F. H. Knapp. No. 1,396,421; Nov. 29.
Ladder step, Extension-. P. Broman. No. 1,396,622; Nov. 29.
Laminated construction and apparatus for use in connection therewith, Producing. S. Thomas. No. 1,396,244; Nov. 29.
Lamp, Dash-. C. Bramming. No. 1,396,213; Nov. 29.
Lamp, Mercury-. H. George. No. 1,396,545; Nov. 29.
Lamp-shade. A. Scherer. No. 1,396,506; Nov. 29.
Lamps, Focusing apparatus for. E. F. Wachwitz. No. 1,396,531; Nov. 29.
Lamps, Two-way-tilting reflector for. S. F. Arbuckle. No. 1,396,292; Nov. 29.
Last-pulling machine. J. H. Richardson. No. 1,396,344; Nov. 29.
Latch. J. A. Gustus. No. 1,396,874; Nov. 29.
Lathe. N. F. Fretter. No. 1,396,226; Nov. 29.
Lathe. A. H. Lloyd. No. 1,396,781; Nov. 29.
Laundry-drier. A. Kendrick. No. 1,396,490; Nov. 29.
Lead-arsenate preparation. M. S. Hopkins, J. Kirby and C. B. Barnhart. No. 1,396,267; Nov. 29.
Leather-preserver. H. A. Muths. No. 1,396,600; Nov. 29.
Lifeboat. E. H. Togersen. No. 1,396,451; Nov. 29.
Lifter: *See*—
Hay-rack lifter. Valve-lifter.
Lifting-jack. J. Raven. No. 1,396,796; Nov. 29.
Lighting-fitting. W. J. Pulleck. No. 1,396,278; Nov. 29.
Limb socket, Artificial-. J. Abrams. No. 1,396,624; Nov. 29.
Liquid-container. C. Conover. No. 1,396,841; Nov. 29.
Liquid-fuel vaporizer. G. P. Bustis. No. 1,396,370; Nov. 29.
Liquid-heaters, Electrically-heated. C. H. Lamth. No. 1,396,966; Nov. 29.
Lithography, Continuous printing by. C. P. Stirling. No. 1,396,805; Nov. 29.
Loading-machine. M. L. Ratzer and J. F. Donaldson. (Reissue.) No. 15,234; Nov. 29.
Loading-machine Material-. A. C. Dennis. No. 1,396,965; Nov. 29.
Lock: *See*—
Automobile-lock. Dial-lock.
Auxiliary lock. Door-lock.
Cover-lock. Mail-bag lock.
Combination-lock. Nut-lock.
Lock, M. Tangeman. No. 1,396,490; Nov. 29.
Lock, L. L. Union. No. 1,396,617; Nov. 29.
Locomotive, Smoke-consuming. Centrifugal mechanism for. R. M. Rowe. No. 1,396,336; Nov. 29.
Locomotive-cabs, Curtain for. H. S. Thompson. No. 1,396,287; Nov. 29.
Loom-shuttle. T. H. Whalley. No. 1,396,669; Nov. 29.
Looms, Filling stop-motion for. H. O. Brown. No. 1,396,718; Nov. 29.
Looms, Stop-mechanism for. H. W. Youngquist. No. 1,396,823; Nov. 29.
Lubricating composition. W. H. Wood. No. 1,396,750; Nov. 29.
Lubricating cups or nipples, Dust-cap for. B. H. Shelly. No. 1,396,577; Nov. 29.
Lubricating device for drill-presses, &c. J. F. Mirrielees. No. 1,396,524; Nov. 29.
Lubricating means. W. J. Bayrer. No. 1,396,936; Nov. 29.
Magneto. F. A. Hoyt. No. 1,396,485; Nov. 29.
Magneto, Electromagnetic apparatus intended to magnetize permanent. A. Lemy. No. 1,396,536; Nov. 29.
Mail-bag lock. F. L. Graham, Jr. No. 1,396,638; Nov. 29.
Mangle, Detachable. H. L. Carson and R. A. Hunter. No. 1,396,501; Nov. 29.
Map, Automatic road-. R. K. Brown. No. 1,396,623; Nov. 29.
Margin-gage device. C. Spiro. No. 1,396,383; Nov. 29.
Mat: *See*—
Elastic slip-mat.
Mattresses. C. A. Hermann. No. 1,396,297; Nov. 29.
Measuring and plotting instrument. F. Rosskopf. No. 1,396,243; Nov. 29.
Measuring granular material, Meter for. H. Ogur. No. 1,396,700; Nov. 29.
Meat and alimentary substances, Preserving. L. F. Bullot. No. 1,396,238; Nov. 29.
Meat-cutting machine. J. B. Raich. No. 1,396,571; Nov. 29.
Meat product, Powdered. J. C. MacLachlan. No. 1,396,464; Nov. 29.
Metal container. H. P. Geisler. No. 1,396,261; Nov. 29.
Metal wheel. M. and L. S. Sachman. No. 1,396,556; Nov. 29.
Micrometer taper-gage. C. J. Gegoux and J. J. Provost. No. 1,396,286; Nov. 29.
Milk-cooler. C. W. McLean. No. 1,396,787; Nov. 29.
Milking-machine. C. Radert, Jr. No. 1,396,302; Nov. 29.
Milking machinery. S. H. Hall. No. 1,396,230; Nov. 29.
Mixer: *See*—
Fuel-mixer.
Mixing-machine. H. Miscampbell. No. 1,396,238; Nov. 29.
Mold: *See*—
Concrete-wall mold.
Mold. H. Barbechat. No. 1,396,412; Nov. 29.
Mop. G. L. Perusse. No. 1,396,347; Nov. 29.
Mop. S. L. Teplitz. No. 1,396,345; Nov. 29.
Motor: *See*—
Hydrocarbon-motor.
Motor and other cycles, Combined mudguard and carrier member for use on. R. W. Smith. No. 1,396,445; Nov. 29.
Motorcycles, Cycles, &c. Antivibration handle-bar for. R. W. Smith. No. 1,396,447; Nov. 29.
Mower, Gang lawn-. C. C. Worthington. No. 1,396,481; Nov. 29.
Mower grinder, Lawn-. R. H. Madson. No. 1,396,906; Nov. 29.
Mower, Hand clipper-. A. Caesar. No. 1,396,672; Nov. 29.
Musical instruments, Bellows for pneumatically-operated. A. P. Gustafson. No. 1,396,730; Nov. 29.
Nailing and tacking machine. H. H. Cooley. No. 1,396,258; Nov. 29.
Nitrocellulose and reducing the fire risk thereof, Dehydrating. P. C. Seel. No. 1,396,911; Nov. 29.
Non-skid device. C. T. Hasenar. No. 1,396,719; Nov. 29.
Nozzle. W. E. Lee. No. 1,396,628; Nov. 29.
Nut-lock. J. A. Safko. No. 1,396,446; Nov. 29.
Nut-locking means. F. V. Cooke. No. 1,396,681; Nov. 29.
Nut lock or fastener. J. W. Ivery. No. 1,396,325; Nov. 29.
Oil-burner. C. E. Brown. No. 1,396,254; Nov. 29.
Oil-burner. B. S. Rothwell. No. 1,396,850; Nov. 29.
Oil-burner. P. H. Ryder and C. W. Moore. No. 1,396,397; Nov. 29.
Oil-burner, Automatic valve for. H. Greenebacher. No. 1,396,540; Nov. 29.
Oil-distilling apparatus. D. A. Dean. No. 1,396,567; Nov. 29.
Oils, resins, gums, &c., which have been hardened, Treating and recovery for reuse. C. Littleton. No. 1,396,488; Nov. 29.

Operating-handles, Locking device for. M. Jacobsky. No. 1,396,532; Nov. 29.
Orthodontic. See Temperature-moderator for. L. J. Whitlock. No. 1,396,927; Nov. 29.
Ore and making gas, Process of and material for reducing. J. H. Reid. No. 1,396,872; Nov. 29.
Ores, &c., Leaching. J. W. Hornsey. No. 1,396,723; Nov. 29.
Ores, Concentration of. H. R. Robbins. No. 1,396,394; Nov. 29.
Orthodontic appliance. E. H. Angle and S. E. Atkinson. No. 1,396,761; Nov. 29.
Oven, Convertible stove-. J. Kneier. No. 1,396,725; Nov. 29.
Ovens, Arrangement for heaters in electric. F. F. Forshee. No. 1,396,643; Nov. 29.
Package and forming same. E. J. Conley. No. 1,396,840; Nov. 29.
Packing device. G. Sykes. No. 1,396,405; Nov. 29.
Pad: *See*—
Desk-pad.
Padlock. W. Kue. No. 1,396,280; Nov. 29.
Padlock. A. Kulikof. No. 1,396,233; Nov. 29.
Paint-package and making it. G. W. Stahl. No. 1,396,403; Nov. 29.
Paint-pail-supporting device. E. Garven. No. 1,396,851; Nov. 29.
Paper-cutter. F. J. Bofsky. No. 1,396,711; Nov. 29.
Paper-cutting device. E. E. Strawn. No. 1,396,474; Nov. 29.
Paper-holder. W. L. Weeks. No. 1,396,308; Nov. 29.
Paper receptacle or tray. A. T. Van Alstyn. No. 1,396,611; Nov. 29.
Paper, Transferring or embossing. A. L. Clapp. No. 1,396,770; Nov. 29.
Parachute and folding same. L. C. Mitchell. No. 1,396,936; Nov. 29.
Paving. Wood-block. G. W. Warmoth. (Reissue.) No. 15,240; Nov. 29.
Peanut-butter. W. W. William. No. 1,396,852; Nov. 29.
Pen, Fountain-. F. Segoe. No. 1,396,900; Nov. 29.
Penholder. O. L. Bennett. No. 1,396,525; Nov. 29.
Phonograph-cabinet, Non-resonant. W. H. Cole. No. 1,396,656; Nov. 29.
Phonograph-needle. M. T. Straight. No. 1,396,529; Nov. 29.
Phonograph-record album. J. M. Smiler, N. Segal, J. Chaikt, and N. Rudin. No. 1,396,745; Nov. 29.
Photographic enlarging, copying, and reducing apparatus, Upright. J. G. Brown. No. 1,396,671; Nov. 29.
Photographic-plate holder. J. Tessier. No. 1,396,951; Nov. 29.
Pianos, End-binder for record-sheets of player-. O. L. Koch, Jr. No. 1,396,901; Nov. 29.
Picture apparatus, Shutter for motion-. R. W. Pittman. No. 1,396,242; Nov. 29.
Picture films, Method of coloring motion-. G. Taussig. No. 1,396,396; Nov. 29.
Picture or design having motion effect. T. A. B. Carver. No. 1,396,635; Nov. 29.
Piercing device, Portable. G. H. Connor. No. 1,396,419; Nov. 29.
Pipe-hanger, Adjustable. H. G. Carlson. No. 1,396,294; Nov. 29.
Pipe, Machine for making and laying. J. F. Trusty and D. O. Davison. No. 1,396,615; Nov. 29.
Pipe-perforator. G. W. Dunsworth. No. 1,396,320; Nov. 29.
Pipe-rest. F. E. Chapman. No. 1,396,223; Nov. 29.
Piston. S. D. Harting. No. 1,396,690; Nov. 29.
Piston-ring. P. K. McMaster. No. 1,396,459; Nov. 29.
Piston-rod bearing for fluid-pressure motors. W. H. Keller and A. Schlubbe. Nos. 1,396,327-8; Nov. 29.
Pistons and plungers, Expanding device for. S. L. McNally and J. D. Wilson. No. 1,396,573; Nov. 29.
Pits and mechanism for shifting same, Cover for soaking-. W. Kennedy. No. 1,396,900; Nov. 29.
Planter, Corn-. E. A. Golle. No. 1,396,428; Nov. 29.
Plastic composition and making same. W. V. Watson. No. 1,396,613; Nov. 29.
Plate-web wheel. W. E. Williams. No. 1,396,614; Nov. 29.
Pliers. E. M. Loftus. No. 1,396,904; Nov. 29.
Plow or cultivator, Motor. P. H. Hurtig and C. H. Menton. No. 1,396,859; Nov. 29.
Plow-point. S. Agpar. No. 1,396,762; Nov. 29.
Plows, Power-lift for. E. J. Rimple and J. W. Morgan. No. 1,396,494; Nov. 29.
Ping. Attachment-. B. J. Grigsby. No. 1,396,228; Nov. 29.
Polish and making same. W. H. Damon. No. 1,396,891; Nov. 29.
Pottery, &c., Means for casting. B. J. Allen. No. 1,396,760; Nov. 29.
Power-engine plant. W. Schmidt. No. 1,396,946; Nov. 29.
Powder-puff. F. J. Bofsky. No. 1,396,712; Nov. 29.
Power-transmission device. W. L. Rinehart. No. 1,396,740; Nov. 29.
Power-transmission mechanism. R. L. Williamson. No. 1,396,928; Nov. 29.
Power-transmitting device. W. J. Francke. No. 1,396,773; Nov. 29.
Power-transmitting mechanism. W. A. Stevens. No. 1,396,656; Nov. 29.
Pneumatic action. J. O. Schwarz and G. Bjerklund. No. 1,396,469; Nov. 29.
Press: *See*—
Cider-press.
Pressure-page log. J. G. Paulin. No. 1,396,792; Nov. 29.
Pressure indicator or recorder. L. G. P. Taring. No. 1,396,606; Nov. 29.
Printing and ruling machine. E. E. Strawn. No. 1,396,475; Nov. 29.
Printing-machine. V. E. L. Chauvette. No. 1,396,260; Nov. 29.
Printing presses, Bed-motion for sheet-. B. F. Upham and F. R. Bellache. No. 1,396,817; Nov. 29.
Printers' forms, Frame for. L. G. Garbe. No. 1,396,544; Nov. 29.
Projectile, Armor-piercing. R. A. Hadfield and A. G. M. Jack. No. 1,396,229; Nov. 29.
Puller: *See*—
Weed-puller.
Pulley-casing. W. F. Krueger. No. 1,396,783; Nov. 29.
Pulp extraction, Apparatus for preparing bamboo and kindred material for. J. L. Jardine. No. 1,396,961; Nov. 29.
Pump. A. B. and A. Voges. No. 1,396,406; Nov. 29.
Pump. J. R. Tinney. No. 1,396,450; Nov. 29.
Pump, Air-. L. L. Larson. No. 1,396,902; Nov. 29.
Pump, Air-. R. C. Zanneth. No. 1,396,810; Nov. 29.
Pump or motor, Rotary. W. F. Mayer. No. 1,396,788; Nov. 29.
Rack: *See*—
Adjustable reading-rack. Sorting-rack.
Radius-rod, Adjustable. E. H. Wagner. No. 1,396,320; Nov. 29.
Rail-anchor, Tie-plate. E. L. Van Dresar. No. 1,396,478; Nov. 29.
Rails or heavy bodies to concrete sleepers, walls, or floors, Means for securing. D. H. Stent. No. 1,396,748; Nov. 29.
Railway draft-rigging. A. Campbell. No. 1,396,674; Nov. 29.
Railway-frog. N. A. Cortese. No. 1,396,420; Nov. 29.
Railway rail and tie fastener bed-plate and anti-creeping device. O. H. McConoughey. No. 1,396,335; Nov. 29.
Railway-switches, Interlocking apparatus for the control of. H. S. Loomis. No. 1,396,785; Nov. 29.
Railway-traffic-controlling apparatus. L. V. Lewis. No. 1,396,333; Nov. 29.
Reading-rack, Adjustable. I. L. Osterhout. No. 1,396,691; Nov. 29.
Record folder, Time-. C. H. Hansen. No. 1,396,231; Nov. 29.
Reel: *See*—
Fishing-reel.
Refrigerator. G. O. Bush. No. 1,396,769; Nov. 29.
Register: *See*—
Cash-register.
Regulating device. J. B. Replogle. No. 1,396,648; Nov. 29.
Regulator: *See*—
Electric thermo-regulator. Window-regulator.
Damper-regulator.
Resilient wheel. E. W. Miller. No. 1,396,880; Nov. 29.
Rheostat, Compression-. T. Spooner. No. 1,396,805; Nov. 29.
Rifle, Automatic. I. W. Wagnon. No. 1,396,452; Nov. 29.
Rim. W. C. Smith. No. 1,396,807; Nov. 29.
Rim-nut. M. C. Schweinert. No. 1,396,604; Nov. 29.
Rim, Split. F. and M. Wells. No. 1,396,659; Nov. 29.
Rims, Tool for demountable. O. M. Rice. No. 1,396,801; Nov. 29.
Ring: *See*—
Piston-ring.
Rod: *See*—
Adjustable radius-rod. Curtain-rod.
Coal-mine curtain-rod.
Roll-holder. W. Z. Murray. No. 1,396,646; Nov. 29.
Roller: *See*—
Inking-roller.
Rolling-Mills, Guide-box for. A. Cullen. No. 1,396,843; Nov. 29.
Roofing, Producing ornamental. F. C. Overbury. No. 1,396,272; Nov. 29.
Roofing, Sheet-. E. J. Yetter. No. 1,396,250; Nov. 29.
Rope-sheaves and support. W. E. Hale. No. 1,396,855; Nov. 29.
Roundabout. W. J. Rozanski. No. 1,396,652; Nov. 29.
Range-finder. L. Ginsbourg. No. 1,396,553; Nov. 29.
Range-finder. J. H. Hammond, Jr. No. 1,396,509; Nov. 29.
Razor, Safety-. J. L. King. No. 1,396,879; Nov. 29.
Rubber, &c., Machine for treating. D. E. Bowen and C. F. Schnuck. No. 1,396,765; Nov. 29.
Rubber heel. S. De Grazia. No. 1,396,631; Nov. 29.
Rule, Slide-. R. A. Pierce. No. 1,396,914; Nov. 29.
Safety-hook. A. J. Sarup. No. 1,396,654; Nov. 29.
Sash-cord fastener. L. Lowndes. No. 1,396,561; Nov. 29.
Sash-fastener. W. Reial. No. 1,396,573; Nov. 29.
Sash-retainer. J. A. Pittenger. No. 1,396,705; Nov. 29.
Saw-controlling mechanism. G. L. Rogers and E. E. Gray. No. 1,396,495; Nov. 29.
Scale, Weighing-. W. Timson. No. 1,396,708; Nov. 29.
Scale, Weighing-. E. Wolter. No. 1,396,480; Nov. 29.
Screen. G. L. Le Roy. No. 1,396,869; Nov. 29.
Screen carrier, Color-. J. Tessier. No. 1,396,952; Nov. 29.
Sewing-machine. J. E. Goforth. No. 1,396,546; Nov. 29.

Sewing-machines, Guard for starting mechanism of. J. Klewica. No. 1,398,533; Nov. 29.
Sewing-machines, Shuttle for. A. F. McCollum. No. 1,398,573; Nov. 29.
Sewing-machines, Supplemental drive for. W. J. Brown. No. 1,398,498; Nov. 29.
Shade-bracket and pole-support, Combined. H. H. Church. No. 1,398,418; Nov. 29.
Sheet-metal box. F. Westerdahl. No. 1,398,469; Nov. 29.
Shipping-container. H. G. Graf. No. 1,398,602; Nov. 29.
Ship-unloading apparatus. H. D. Dean. No. 1,398,541; Nov. 29.
Ships, Apparatus for supplying air to the exterior of hulls of. F. G. Trank. No. 1,398,346; Nov. 29.
Shock-absorber, Pneumatic. J. W. Drereman. No. 1,398,923; Nov. 29.
Shock-absorbing mechanism, Friction. S. B. Hamilton. Nos. 1,398,691-2; Nov. 29.
Shock-absorbing mechanism, Friction. B. S. Johnson. No. 1,398,690; Nov. 29.
Shock-absorbing mechanism, Friction. J. F. O'Connor. No. 1,398,700; Nov. 29.
Shoe-buffer. L. J. Nelson. No. 1,398,889; Nov. 29.
Shoe-nailing machines, Work-support for. E. Kontesky. No. 1,398,537; Nov. 29.
Shoes, Machine for lasting stitched-down. A. Parri. No. 1,398,528; Nov. 29.
Shoes, Machine for rough-rounding and lasting stitched down. B. S. La Fleur. No. 1,398,524; Nov. 29.
Shoes, Substitute material for making box-toes for. A. C. Denning. (Reissue.) No. 15,235; Nov. 29.
Shuttle-positioner. O. Legendre. No. 1,398,699; Nov. 29.
Sifter and shovel, Combined. H. H. Beach. No. 1,398,666; Nov. 29.
Sifter, Flour-. E. T. Earle. No. 1,398,367; Nov. 29.
Signal: *See*—
Automobile-signal. Vehicle-signal.
Signaling system, Selective. G. K. Thompson. No. 1,398,287; Nov. 29.
Silk, Artificial. R. D. Lance. No. 1,398,525; Nov. 29.
Skate-fastener. M. J. Hoffenberg. No. 1,398,857; Nov. 29.
Skull-cap frame and guide. G. M. Cruse. No. 1,398,342; Nov. 29.
Slicer, Cabbage-. M. Chrastek. No. 1,398,257; Nov. 29.
Smokehouse. C. W. Koehler. No. 1,398,726; Nov. 29.
Snow-remover. F. F. Daniels. No. 1,398,454; Nov. 29.
Solvent for pyroxylin bodies. E. B. Mitchell. No. 1,398,239; Nov. 29.
Sorting-rack. T. Hawkins. No. 1,398,778; Nov. 29.
Sound-records, Indicating attachment for. R. B. Wheelan. No. 1,398,289; Nov. 29.
Sound-reproducing machine. H. T. Schiff. No. 1,398,742; Nov. 29.
Sound-reproducing machines, Brake or stop device for. S. L. Schiff. No. 1,398,743; Nov. 29.
Spark-plugs, Spark-gap attachment for. J. S. Faulkner. No. 1,398,457; Nov. 29.
Speed-control, Automatic. E. J. Crawford. No. 1,398,539; Nov. 29.
Spray, Tree-. B. W. Gerhart. No. 1,398,505; Nov. 29.
Spreader, Roll-. A. W. Nelson. No. 1,398,269; Nov. 29.
Spring: *See*—
Wagon-spring.
Spring and shock-absorber, Combination. H. A. Becker. No. 1,398,929; Nov. 29.
Stamp, Hand-. W. T. Cressler. No. 1,398,363; Nov. 29.
Stamp, Multiple. H. H. McFillen. No. 1,398,733; Nov. 29.
Stand: *See* —
Vise-stand.
Steam and hot-water heating, Boiler for. J. W. Piper. No. 1,398,794; Nov. 29.
Steam-boiler and steam-power generation. G. S. Roberts. No. 1,398,295; Nov. 29.
Steering-control. J. H. Hammond, Jr. No. 1,398,510; Nov. 29.
Steam-generator. J. T. Blakeman. No. 1,398,882; Nov. 29.
Stool. C. F. Miller. No. 1,398,935; Nov. 29.
Stove, Combined coal and gas. N. and S. Schreder. No. 1,398,400; Nov. 29.
Stoves, Safety attachment for gas-. J. E. Cadigan. No. 1,398,888; Nov. 29.
Street-indicator. W. L. Clarke, Jr. No. 1,398,771; Nov. 29.
Suit, Union-. W. L. Pendergrass. No. 1,398,443; Nov. 29.
Superphosphate, Apparatus for use in manufacture of. F. W. R. Williams. No. 1,398,350; Nov. 29.
Superphosphate, Manufacture of. A. L. Tuttle. No. 1,398,818; Nov. 29.
Switch: *See*—
Electric switch.
Switch. E. O. Anderson. No. 1,398,533; Nov. 29.
Switch-throwing device, Railway-. A. J. Linley. No. 1,398,332; Nov. 29.
Tables. A. F. Saltalamacchia. No. 1,398,496; Nov. 29.
Talking-machines, Rewinding mechanism for. N. Micucci. No. 1,398,879; Nov. 29.
Tank. J. Cleod. No. 1,398,934; Nov. 29.
Telegraphy. H. G. Dorsey. No. 1,398,882; Nov. 29.
Telephone-exchange system. C. B. Fowler. No. 1,398,580; Nov. 29.
Telephone-repeater, Voice-current. G. H. Kahl. No. 1,398,728; Nov. 29.
Telephone system, Automatic. W. T. Powell. No. 1,398,921; Nov. 29.
Tension-plate wheel. W. H. Williams. No. 1,398,615; Nov. 29.
Thermostatic coupling. H. D. Arnold. No. 1,398,606; Nov. 29.
Thermophone. B. D. Gray. No. 1,398,697; Nov. 29.
Thermostat. H. H. Foxwell and J. M. Morris. No. 1,398,855; Nov. 29.
Thread-holder and tensioner. E. C. Matson. No. 1,398,577; Nov. 29.
Ticket-holder, Price-. L. and H. Hopp. No. 1,398,762; Nov. 29.
Ticket-issuing machine, Railway-. H. A. Martin. No. 1,398,843; Nov. 29.
Tile. J. E. Lancaster. No. 1,398,698; Nov. 29.
Time-actuated electrical switch mechanism. M. F. Roebling. No. 1,398,816; Nov. 29.
Timepiece, Escapement for. I. Greenwald. No. 1,398,776; Nov. 29.
Tire. S. Rice. No. 1,398,574; Nov. 29.
Tire-cover. H. S. Duke. No. 1,398,259; Nov. 29.
Tire, Cushion-. J. John. No. 1,398,902; Nov. 29.
Tire-fastener, Vehicle-. W. H. Parham. No. 1,398,863; Nov. 29.
Tires, Half-sole for pneumatic. F. P. Brucker. No. 1,398,414; Nov. 29.
Tire-lever, Adjustable. W. J. Owens. No. 1,398,692; Nov. 29.
Tire-mounting. L. J. Perkins. No. 1,398,566; Nov. 29.
Tire, Non-collapsible. J. B. Lynch. No. 1,398,760; Nov. 29.
Tire, Pneumatic. H. H. Allyn. No. 1,398,492; Nov. 29.
Tire-pressure indicator and alarm. H. R. Spangler. No. 1,398,440; Nov. 29.
Tire-protecting antiskid appliance. H. S. Lyster. No. 1,398,722; Nov. 29.
Tire tread, Pneumatic. J. A. Healy. No. 1,398,513; Nov. 29.
Tires, Method and apparatus for manufacturing. W. C. Stevens. No. 1,398,740; Nov. 29.
Tobacco, Packing and preserving pkg. J. Peterson. Nos. 1,398,868-9; Nov. 29.
Toilet article, Folding combination. R. Y. Bevoe. No. 1,398,583; Nov. 29.
Toilet-seat cover. H. B. Courchene. No. 1,398,818; Nov. 29.
Tool, Combination-. F. X. Freyder. No. 1,398,823; Nov. 29.
Tool-holder. C. J. Clark. No. 1,398,679; Nov. 29.
Tooth, Artificial. G. H. B. Lockett. No. 1,398,560; Nov. 29.
Torch, Alcohol-. F. B. Carleton. No. 1,398,676; Nov. 29.
Torch, Suction-. A. E. Hauck. No. 1,398,553; Nov. 29.
Torpedo, Railway signal-. F. Dutcher. No. 1,398,946; Nov. 29.
Toy bed. B. C. Silver. No. 1,398,745; Nov. 29.
Toy, Building. A. P. Gilbert. No. 1,398,953; Nov. 29.
Toy, Figure wheeled. E. B. Fuld. No. 1,398,426; Nov. 29.
Toy pistol. M. Pitmaeck. No. 1,398,277; Nov. 29.
Toy vehicle. F. J. Reuter. No. 1,398,392; Nov. 29.
Track construction. W. A. Braden. No. 1,398,963; Nov. 29.
Tractor. L. L. Dubois. No. 1,398,683; Nov. 29.
Tractor, Chain-tread. J. W. and A. R. Lambert. No. 1,398,889; Nov. 29.
Tractor, Garden-. G. E. Gunther. No. 1,398,777; Nov. 29.
Tractor steering-gear. J. Mader. No. 1,398,902; Nov. 29.
Tractor steering-handles, Support for. J. Mader. No. 1,398,901; Nov. 29.
Tractor, Worm-driven four-wheel-drive. A. Stewart. No. 1,398,578; Nov. 29.
Tractors, Drawbar for. H. E. Carper. No. 1,398,416; Nov. 29.
Tractors, Pulverizer attachment for. E. K. M. Bordeen. No. 1,398,668; Nov. 29.
Train-coaler. G. L. Bouldin. No. 1,398,833; Nov. 29.
Train-control system, Automatic. W. E. Howe. (Reissue.) No. 15,236; Nov. 29.
Transmitter. R. M. Hopkins. No. 1,398,594; Nov. 29.
Trap: *See*—
Non-siphonable trap.
Trap, Non-siphonable. D. A. Gillen. No. 1,398,427; Nov. 29.
Trapper's compound tool. C. W. Pleuse. No. 1,398,342; Nov. 29.
Tread, Ground-gripper detachable. E. Erik. No. 1,398,893; Nov. 29.
Track-wheel shoe. W. Coatsworth. No. 1,398,890; Nov. 29.
Tubing of dissimilar materials, Means and method for connecting. J. P. Berteaux. No. 1,398,634; Nov. 29.
Turbine, Steam-. C. Y. Kerr. No. 1,398,461; Nov. 29.
Turret-lathe. N. F. Fretter. No. 1,398,226; Nov. 29.
Twine-cutter, Hand. H. Schwarting. No. 1,398,919; Nov. 29.
Twine-holder. W. J. Stott. No. 1,398,847; Nov. 29.
Typewriter-desk, Combined office and drophead. G. F. Albro. No. 1,398,618; Nov. 29.
Typewriting-machine. A. B. Ely. Nos. 1,398,721-2; Nov. 29.
Undergarment. A. E. Clarke. No. 1,398,624; Nov. 29.
Untwisting and winding machine, Chenille. G. C. L. Tisch. No. 1,398,754; Nov. 29.

Valve. M. Blum. No. 1,398,764; Nov. 29.
Valve. W. Jean. No. 1,398,423; Nov. 29.
Valve-cut-off-correction instrument for locomotives. V. Z. Caracristi. No. 1,398,258; Nov. 29.
Valve, Gate-. M. C. Christensen. No. 1,398,678; Nov. 29.
Valve-grinding tool. H. C. Hughes. No. 1,398,377; Nov. 29.
Valve-handle, Detachable. F. L. Hale. No. 1,398,263; Nov. 29.
Valve-lifter. W. E. Dunstan. No. 1,398,456; Nov. 29.
Valve mechanism, Compressor. W. Wishart and A. H. Morrell. No. 1,398,909; Nov. 29.
Valve-tubes, Dust-caps and sleeve for inflating. E. O. Collins. No. 1,398,816; Nov. 29.
Vault and safe lock, Emergency. D. J. Condon. No. 1,398,628; Nov. 29.
Vehicle-control mechanism, Bumper-actuated. K. O. Schapman. No. 1,398,890; Nov. 29.
Vehicle curtain-container. H. W. Allis. No. 1,398,885; Nov. 29.
Vehicle-signal. W. H. Learmont. No. 1,398,641; Nov. 29.
Vehicle-wheel. W. H. Hines. No. 1,398,265; Nov. 29.
Vehicle-wheel. A. L. Putnam. No. 1,398,739; Nov. 29.
Vehicle-wheel, Metallic. A. L. Putnam. No. 1,398,738; Nov. 29.
Vehicle-wheels, Antiskid device for. W. H. Crane. No. 1,398,538; Nov. 29.
Vehicles, Auxiliary tank for motor-. H. Lutsky. No. 1,398,324; Nov. 29.
Vehicles, Non-skid attachment for. N. M. McDaniel. No. 1,398,942; Nov. 29.
Vehicles, Steering device for. J. F. Eccard. No. 1,398,558; Nov. 29.
Vehicles, Traffic-signal for motor-. J. J. Santin and G. M. White. No. 1,398,653; Nov. 29.
Vehicles, Transmission-lock for motor-. A. de Clairmont. No. 1,398,455; Nov. 29.
Vending-machine. F. W. and J. H. Stice. No. 1,398,283; Nov. 29.
Vending-machine. B. Williams. No. 1,398,351; Nov. 29.
Viscosity, Method and apparatus for determining. A. G. M. Michell. No. 1,398,578; Nov. 29.
Vise-stand. M. Evans. No. 1,398,424; Nov. 29.
Wagon-spring. F. D. Story. No. 1,398,810; Nov. 29.
Wall-block. J. W. Hull. No. 1,398,695; Nov. 29.
Wall construction. F. Simants. No. 1,398,402; Nov. 29.
Washboard. W. Rothrock. No. 1,398,445; Nov. 29.
Water-heater. S. C. Smith. No. 1,398,747; Nov. 29.
Water-heater. C. H. Toombs. No. 1,398,755; Nov. 29.
Water-tube boiler. J. Van Oosterwyck. No. 1,398,943; Nov. 29.
Weather-strip. F. A. Stickle. No. 1,398,284; Nov. 29.
Web feeding and cutting apparatus. A. B. Wales. No. 1,398,581; Nov. 29.
Weed-puller. M. Franco. No. 1,398,850; Nov. 29.
Weeder. G. M. Carkey. No. 1,398,500; Nov. 29.
Well-boring apparatus. B. Boykin, Jr. No. 1,398,413; Nov. 29.
Wells, Sealing the walls of deep. W. E. Nolan. No. 1,398,563; Nov. 29.
Wheel: *See*—
Metal wheel. Resilient wheel.
Metallic vehicle-wheel. Tension-plate wheel.
Plate-web wheel. Vehicle-wheel.
Wheel blocking and jacking device. A. M. Bellony. No. 1,398,534; Nov. 29.
Winding devices, Take-up mechanism. J. Clayton. No. 1,398,680; Nov. 29.
Window adjuster, Casement-. W. Cox. No. 1,398,629; Nov. 29.
Window-regulator. E. E. Heintz. No. 1,398,693; Nov. 29.
Windshield-cover. A. E. Canby. No. 1,398,714; Nov. 29.
Windshield-shade. H. G. Whitmore and C. T. Glasser. No. 1,398,661; Nov. 29.
Wire-bound box. E. A. Grill. No. 1,398,606; Nov. 29.
Wire wheels, Apparatus for assembling. L. Fine. No. 1,398,227; Nov. 29.
Wireless receiving and transmitting apparatus. J. Erskine-Murray and J. Robinson. No. 1,398,848; Nov. 29.
Wood, Tool for boring and counterboring. L. S. Hayden. No. 1,398,779; Nov. 29.
Wrench. J. Berggren. No. 1,398,886; Nov. 29.
Wrench. J. M. Clark. No. 1,398,889; Nov. 29.
Wrench. G. Pessternak. No. 1,398,274; Nov. 29.
Wriggler. A. E. Moore. No. 1,398,881; Nov. 29.

ALPHABETICAL LIST OF DESIGNS.

Apparel, Trimming for ladies' wearing-. S. Neilinger. Nos. 59,856-9; Nov. 29.
Bag-top. S. G. Mandalian. No. 59,851; Nov. 29.
Boots, shoes, &c., Sole for. F. C. Lloyd. No. 59,849; Nov. 29.
Buckle, Belt-. W. J. Nelson. No. 59,860; Nov. 29.
Cabinet, Dispensing-. L. S. Paleton. No. 59,862; Nov. 29.
Candy. G. H. Pappas. No. 59,863; Nov. 29.
Collar, Horse-. M. Dykas. No. 59,826; Nov. 29.
Display-case. I. W. Rice. Nos. 59,870-1; Nov. 29.
Doll. E. B. Card. No. 59,814; Nov. 29.
Doll. D. H. Isaac and L. B. Smith. No. 59,847; Nov. 29.
Doll, statuette, or minaret figure. E. A. Meiser. No. 59,864; Nov. 29.
Emblem, badge, ring, stickpin, brooch, watch-charm, &c. E. C. Dennis and E. M. Shipley. No. 59,825; Nov. 29.
Engine-casing. C. C. Hinkley. No. 59,845; Nov. 29.
Engine-frame. C. E. Gambill. No. 59,833; Nov. 29.
Fabric. G. Gegenheimer. Nos. 59,834-7; Nov. 29.
Fabric, Printed. E. B. Batterton. No. 59,808; Nov. 29.
Flag-holder. C. Selisnik. No. 59,875; Nov. 29.
Fork and spoon, Combination. A. A. Quandee and S. G. Palmberg. No. 59,869; Nov. 29.
Game-board. R. H. Cotter. No. 59,820; Nov. 29.
Game-board. J. F. Lyons. No. 58,850; Nov. 29.
Gas-heater. J. H. Grayson. No. 59,839; Nov. 29.
Jar or similar article of similar nature. A. and H. Ingram. No. 59,846; Nov. 29.
Lamp. J. Howe, Jr. No. 59,845; Nov. 29.
Lamp fixture, Electric-. J. M. Crucet. Nos. 59,821-2; Nov. 29.
Lamp-globe. C. A. Campbell. No. 59,813; Nov. 29.
Lamp-shade. A. S. Mendoff. No. 59,852; Nov. 29.
Leather, wall-paper, or similar article of manufacture. H. G. Wurm. Nos. 59,830-1; Nov. 29.
Lens-blank. H. W. Hill. No. 59,842; Nov. 29.
Ophthalmic mountings, Frame member of. E. L. Schumacher and W. H. Boutelle. No. 59,873; Nov. 29.
Paper doll. F. Benson. No. 59,810; Nov. 29.
Perfumer and disinfector, Combined. A. J. Flauder. Nos. 59,829-31; Nov. 29.
Phonographs, Tone-arm for. E. Fletcher. No. 59,832; Nov. 29.
Pincers. A. L. Evenden and J. D. and J. A. Casey. No. 59,827; Nov. 29.
Pistol-guide. M. G. Nixon. No. 59,861; Nov. 29.
Plug or connector, Attachment. W. H. Harrington. No. 59,840; Nov. 29.
Pumps, Air injector for. L. L. Taylor. No. 59,877; Nov. 29.
Radiator-cap ornament. A. Travers. No. 59,878; Nov. 29.
Radiator for automobiles. R. Stahl. No. 59,876; Nov. 29.
Ring or similar article of manufacture. M. Seiger. No. 59,874; Nov. 29.
Romper. R. F. Hough. No. 59,844; Nov. 29.
Rubber heel. P. Altruda. No. 59,807; Nov. 29.
Sewing-machine-cover case. G. G. Hasbrouck. No. 59,841; Nov. 29.
Shoes, Heel brace for. L. Paternostro. Nos. 59,866-7; Nov. 29.
Sifter-top can or similar receptacle. M. H. Connor. No. 59,819; Nov. 29.
Soap, Cake of. S. Cummins. No. 59,823; Nov. 29.
Spectacles. S. J. Clulee. Nos. 59,817-18; Nov. 29.
Tire. A. K. and C. A. Allen. No. 59,806; Nov. 29.
Tire. J. Christy. No. 59,815; Nov. 29.
Tire, Automobile-. W. P. Brauender. No. 59,811; Nov. 29.
Tire shoe-horn. E. F. King. No. 59,848; Nov. 29.
Tower-bell engagement-ring. J. A. Goyette. No. 59,838; Nov. 29.
Toy. C. G. Adamec. No. 59,805; Nov. 29.
Toy balloon. F. B. Pastir. Nos. 59,864-5; Nov. 29.
Toy broom. R. Nakian. No. 59,855; Nov. 29.
Toy wagon. S. I. Rose. No. 59,872; Nov. 29.
Traffic guard. M. C. Benham. No. 59,809; Nov. 29.
Urn. C. E. Curtiss. No. 59,824; Nov. 29.
Vehicles, Direction-indicator for motor-. S. C. Brendel. No. 59,812; Nov. 29.
Ventilator. C. O. Whitnell. No. 59,879; Nov. 29.
Washing-machine. J. J. Finucane. No. 59,828; Nov. 29.
Watch-bow. E. A. Phinney. No. 59,868; Nov. 29.
Watchcase. M. Megurowsky. No. 59,853; Nov. 29.
Whistle. E. H. Clarke. No. 59,816; Nov. 29.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Alcohol, Denatured. Kentucky Distilleries & Warehouse Co. No. 148,677; Nov. 29.
Armored conductors and flexible steel conduits. Eastern Tube & Tool Company. No. 148,824; Nov. 29.
Bank deposit-books. G. P. Garis. No. 148,837; Nov. 29.
Balls, Golf-. A. J. Reach Company. No. 148,936; Nov. 29.
Belting, Dress-. A. Largman. No. 148,884; Nov. 29.
Belting made from canvas, treated canvas, or leather. Lamborn & Co. No. 148,832; Nov. 29.
Belting, Leather. Hide Leather & Belting Co. No. 148,857; Nov. 29.
Belting, Leather. United Belt Manufacturing Company. No. 148,953; Nov. 29.
Beverage, Non-alcoholic. Iroquois Beverage Company. No. 148,871; Nov. 29.
Beverages, Maltless fruit. Red Ball Company. No. 148,937; Nov. 29.
Bonbons and chocolates. George S. Dilas & Company. No. 148,814; Nov. 29.
Brooms for applying stucco. M. P. Andrews. No. 148,781; Nov. 29.
Candy. Howard H. Hoyt Candy Co. No. 148,861; Nov. 29.
Candy. Loose-Wiles Biscuit Company. No. 148,893; Nov. 29.
Candy. Sophie Mae Candy Corporation. No. 148,896; Nov. 29.
Candy. Licorice. National Licorice Company. No. 148,904; Nov. 29.
Canned fruits and vegetables, and olives. California Growers Association, Inc. No. 148,793; Nov. 29.
Canned fruits and vegetables, fruit preserves. Croker Packing Co. No. 148,806; Nov. 29.
Cards, Playing-. George B. Hurd & Co. No. 148,862; Nov. 29.
Chains. Columbus McKinnon Chain Company. No. 148,804; Nov. 29.
Chemical and medicinal preparations, Certain. Drug Products Co. No. 148,818; Nov. 19.
Chemical and medicinal preparations, Certain. Industrial Chemical Company. No. 148,866; Nov. 29.
Chocolates. Josephine Chocolates, Limited. No. 148,875; Nov. 29.
Chocolate, Sweet. Hooton Cocoa Company. No. 148,859; Nov. 29.
Cleaner for cleaning metal before electroplating same. Frontier Chemical Co. No. 148,835; Nov. 29.
Cleaning compound. R. A. Raymond. No. 148,935; Nov. 29.
Cleansing compound. Hysan Manufacturing Co. No. 148,864; Nov. 29.
Clothing, Certain articles of. L. H. Lewis Company. No. 148,888; Nov. 29.
Clothing, Certain articles of. F. A. Patrick & Co. No. 148,913; Nov. 29.
Clothing, Infants'. Attias Brothers. No. 148,784; Nov. 29.
Coal and coke. Red Jacket Consolidated Coal and Coke Company. No. 148,938; Nov. 29.
Coffee. Sehon, Stevenson and Company. No. 148,922; Nov. 29.
Cologne, Eau-de-. M. M. R. Vve. Grenoville. No. 148,848; Nov. 29.
Cooking utensils, Certain aluminum. Pacific Aluminum Company. No. 148,910; Nov. 29.
Cream-separators. Charles William Stores, Inc. No. 148,798; Nov. 29.
Denims in the piece. Erwin Cotton Mills Co. No. 148,829; Nov. 29.
Dental rubber and dam, bulbs for dental use, &c. Atlantic Rubber Mfg. Corporation. No. 148,783; Nov. 29.
Deodorant compound. T. A. Carney. No. 148,795; Nov. 29.
Dolls. George Borgfeldt & Co. No. 148,792; Nov. 29.
Dolls. E. I. Horsman & Aetna Doll Co. No. 148,860; Nov. 29.
Dolls. Wexler, Goldstein & Co. No. 148,961; Nov. 29.
Dolls, Cut-out. W. Donahey. No. 148,816; Nov. 29.
Dolls, Dancing. W. H. Price, jr. No. 148,917; Nov. 29.
Drain-pipes, Chemical solution for removal of obstructions in. T. W. Gallaway. No. 148,836; Nov. 29.
Dresses and aprons, House. Ely & Walker Dry Goods Company. No. 148,826; Nov. 29.
Driers and spray-nozzles. W. L. Fleisher & Co. No. 148,832; Nov. 29.
Dyestuffs. E. I. du Pont de Nemours & Company. No. 148,819; Nov. 29.
Electric engine-starting systems, switches, &c. Gray & Davis. No. 148,842; Nov. 29.
Engines, Internal-combustion. Turner Manufacturing Co. No. 148,960; Nov. 29.
Extracts, Food-flavoring. Elk Manufacturing Company. No. 148,825; Nov. 29.
Fabrics in the piece, Certain woven. C. Loegler. No. 148,892; Nov. 29.
Felt polishing-wheels and felts therefor. Eastern Felt Company. No. 148,823; Nov. 29.
Fishing-baits, Artificial. L. J. Eppinger. No. 148,828; Nov. 29.
Fishing-tackle case. A. F. Voy. No. 148,955; Nov. 29.
Flannel, woolen cloths, haircloths, &c., in the piece. Kelsall & Kemp. No. 148,876; Nov. 29.
Flat paint for finishing interior walls, &c. Indiana Indestructible Paint Co. No. 148,865; Nov. 29.
Flour, Pastry-. Dayton Milling Company. No. 148,812; Nov. 29.
Flour, Kansas hard-wheat patent-. E. O. Challenger. No. 148,797; Nov. 29.
Flours, Prepared biscuit, &c. C. F. Blanke Sales Company. No. 148,791; Nov. 29.
Foot-balls, Leather. Jordan Marsh Company. No. 148,874; Nov. 29.
Fuel-economisers. H. A. Koenig. No. 148,879; Nov. 29.
Fuel, Stable mobile. L. W. Bates. No. 148,788; Nov. 29.
Games, Parlor baseball. W. J. Ennisson. No. 148,827; Nov. 29.
Games, Perforated-disk-throwing. Sky Roll Company. No. 148,924; Nov. 29.
Gasolene, lubricating oils and greases, &c. American Pacific Company. No. 148,779; Nov. 29.
Ginger-ale, lemon-soda, cream-soda, birch-beer, &c. Tiffin Products, Inc. No. 148,949; Nov. 29.
Glassware, Certain. General Electric Company. Nos. 148,838-9; Nov. 29.
Golf-clubs. A. G. Spalding & Bros. No. 148,930; Nov. 29.
Gum, Sugar-coated chewing-. Wm. Wrigley Jr. Company. No. 148,964; Nov. 29.
Hair-grower, pressing-oil, &c. E. B. Jackson. No. 148,872; Nov. 29.
Hair-Nets. Western Bottle Mfg. Co. No. 148,960; Nov. 29.
Hair-restoratives. C. Damschinsky. No. 148,811; Nov. 29.
Hammers, hatchets, files, handsaws, &c. Consolidated Tool Works Inc. No. 148,805; Nov. 29.
Headlights, Electric. J. H. Laird. No. 148,881; Nov. 29.
Heaters and furnaces using gas or oil, Steam, hot-water, and hot-air. H. M. Snow. No. 148,927; Nov. 29.
Heating and resistor elements, Electrical. E. L. Wiegand. No. 148,963; Nov. 29.
Hosiery. M. Rounick. No. 148,945; Nov. 29.
Hosiery and underwear. Neverset Hosiery Mills. No. 148,907; Nov. 29.
Hosiery, Ladies' and children's. Walton Hosiery Mills. No. 148,958; Nov. 29.
Jersey cloth in the piece. W. M. Levy. No. 148,887; Nov. 29.
Jewelry and flat hollow ware. Georg Jensens Sølvsmedie A/S. No. 148,928; Nov. 29.
Knitted underwear, hosiery, sweater and jersey coats. Penmans Limited. No. 148,914; Nov. 29.
Lamps, Acetylene-. Shanklin Manufacturing Company. No. 148,923; Nov. 29.
Lamps, Portable electric. S. Robert Schwartz & Bro. No. 148,918; Nov. 29.
Leather, Manufactured. E. B. Cassatt. No. 148,796; Nov. 29.
Leathers. Chicago Tanning Co. No. 148,799; Nov. 29.
Liquids, Cleaning and polishing. Lincoln Chemical Company. No. 148,889; Nov. 29.
Medicinal preparations, Certain. C. O. Fauda. No. 148,831; Nov. 29.
Medicinal preparations, Certain. C. F. Jones. No. 148,873; Nov. 29.
Medicinal, toilet, and chemical preparations, Certain. International Drug Company. No. 148,868; Nov. 29.
Medicine for influenza, colds, cholera, and pneumonia. L. Kubanek. No. 148,880; Nov. 29.
Medicine for phthisis, neurasthenia, constipation, &c. Reed & Carnrick. No. 148,939; Nov. 29.
Medicine for rheumatism, gout, sciatica, lumbago, &c. Plough Chemical Company. No. 148,916; Nov. 29.
Medicine for treatment of asthma. Ingalls Brothers. No. 148,867; Nov. 29.
Metal-working tools, vises, saws, &c., Certain. Easterbrook Allcard & Co. No. 148,821; Nov. 29.
Milk, Chocolate malted. Malt-A-Milk Company of America. No. 148,898; Nov. 29.
Milk, Unsweetened evaporated. Nestle's Food Company. No. 148,906; Nov. 29.
Mouth-wash. S. H. Goodfriend. No. 148,841; Nov. 29.
Nutcrackers. Rehn & Tousley. No. 148,940; Nov. 29.
Oil compound used in the baking of food products. Bakers Products Company. No. 148,786; Nov. 29.
Oil, cup-greases, &c., Lubricating motor-. J. J. South. No. 148,929; Nov. 29.
Oil, Lubricating-. E. K. Lincoln. No. 148,891; Nov. 29.
Oils and greases, Lubricating. Corning International Corporation. No. 148,806; Nov. 29.
Oils and greases, Lubricating. Sears Equipment Company. No. 148,920; Nov. 29.
Ointment for treatment of scalp. Mrs. A. N. Taylor. No. 148,946; Nov. 29.

Optical products, engineering and other instruments of precision, Certain. Bausch & Lomb Optical Co. No. 148,789; Nov. 29.
Overcoats, raincoats, pants, vests. Rosenwald & Weil. No. 148,943; Nov. 29.
Paper and stationery, Certain. Lavarac Paper Products Corporation. No. 148,836; Nov. 29.
Peanuts in the shell. Franklin Peanut Company. No. 148,833; Nov. 29.
Pencils, Lead-. Eagle Pencil Company. No. 148,830; Nov. 29.
Perfumes, face-powders, toilet water, &c. Melba Manufacturing Company. No. 148,902; Nov. 29.
Perfumes, toilet water, &c. M. M. R. Vve. Grenoville. Nos. 148,843-6; Nov. 29.
Perfumes, toilet waters, &c. M. M. R. Vve. Grenoville. No. 148,847; Nov. 29.
Perfumes, toilet waters, &c. M. M. R. Vve. Grenoville. No. 148,849; Nov. 29.
Petroleum products. Texas Company. No. 148,947; Nov. 29.
Pharmaceutical preparations. Henry Thayer & Co. No. 148,948; Nov. 29.
Phonographs and phonograph-records, record albums, &c. New York Recording Laboratories. No. 148,906; Nov. 29.
Photographic and blue-print papers, Unsensitized. Strathmore Paper Company. No. 148,933; Nov. 29.
Piece goods of silk, wool, linen, cotton, &c. Bianchini, Férier. No. 148,790; Nov. 29.
Piece goods, Worsted, woolen, worsted and cotton, and worsted and silk. Louis Walther Manufacturing Company. No. 148,967; Nov. 29.
Poultices for infected wounds. B. Koch. No. 148,878; Nov. 29.
Powder and mouth-lotion, Tooth-. P. M. Wessel. No. 148,959; Nov. 29.
Powder for mouth and tooth washes. L. Dreyfus. No. 148,817; Nov. 29.
Preparation for killing flies and lice. J. A. Hand Son Co. No. 148,855; Nov. 29.
Preparation for restoring hair to its natural color and removing dandruff. Waldemar Lessmann & Sons. No. 148,885; Nov. 29.
Preparation for the treatment of asthma. F. L. Holliday. No. 148,858; Nov. 29.
Publications. H. E. Millikin. No. 148,903; Nov. 29.
Remedies for diseases of the throat, nasal organs, and lungs. Ulrici Medicine Co. No. 148,951; Nov. 29.
Repair kits, Portable. American Automobile Accessories Company. No. 148,778; Nov. 29.
Rubber and composition soles and heels. Essex Rubber Company. No. 148,830; Nov. 29.
Rubber cement. Hadley Bros.-Uhl Company. No 148,850; Nov. 29.
Salve. R. L. Marer. No. 148,899; Nov. 29.
Salve for cuts and bruises. S. Asfour. No. 148,782; Nov. 29.
Scissors, shears, pocket-knives, and razors. G. M. Mayer. No. 148,900; Nov. 29.
Serge in the piece, Cotton. Pacific Mills. No. 148,911; Nov. 29.
Shirts and blouses, Boys'. Oelbaum Bros. & Bauer. No. 148,909; Nov. 29.
Shirts, Work-. Reliance Manufacturing Company. No. 148,941; Nov. 29.
Shoes, Leather. William Lane, Inc. No. 148,883; Nov. 29.
Shoes of leather and of leather and fabric. French American Import Co. No. 148,834; Nov. 29.
Shoes, Leather, rubber, &c. International Shoe Company. No. 148,869; Nov. 29.
Sign, Electric. Smith-Hecht Co. No. 148,925; Nov. 29.
Silk piece goods. Eastern District Piece Dye Works, Inc. No. 148,822; Nov. 29.
Silk piece goods. H. R. Mallinson & Co. No. 148,897; Nov. 29.
Soap. Swift & Company. No. 148,924; Nov. 29.
Soap in paste form. J. F. Dobbs. No. 148,815; Nov. 29.
Soaps. Colgate & Company. Nos. 148,860-3; Nov. 29.
Soaps, Shaving-. M. M. R. Vve. Grenoville. No. 148,846; Nov. 29.
Soldering-paste. Snappy Soldering Paste Co. No. 148,936; Nov. 29.
Soup-thickeners for garments. Chas. D. Stone Company. No. 148,832; Nov. 29.
Stationery, Certain. Gregory Mayer & Thom Co. No. 148,901; Nov. 29.
Steels, Ferrous-alloy. Halcomb Steel Company. Nos. 148,851-4; Nov. 29.
Steel, Tool-. Vulcan Crucible Steel Company. No. 148,956; Nov. 29.
Suits and overcoats, Men's and young men's. Goldstein, Neumann & Co. No. 148,840; Nov. 29.
Suits, Outer. Sears, Roebuck and Co. No. 148,921; Nov. 29.
Syrup, Cocoa. Richardson Corporation. No. 148,942; Nov. 29.
Syrups and flavors and flavoring extracts for soft drinks. H. J. Stein. No. 148,931; Nov. 29.
Tablets, Medicamental. H. Rothstein. No. 148,944; Nov. 29.
Tape, Gummed. R. G. Passano. No. 148,912; Nov. 29.
Teeth-crowns. Lincoln Dental Mfg. Co. No. 148,890; Nov. 29.
Telephonic apparatus. E. Hausdorf. No. 148,856; Nov. 29.
Textile fabrics in the piece. Penn Textile Company. No. 148 915; Nov. 29.
Talking-machines. Cunningham Piano Company. No. 148,809; Nov. 29.
Tires and tubes of rubber, Automobile. Automobile Owners' Tire Corporation. No. 148,785; Nov. 29.
Tires and tubes, Rubber. Cupples Company Manufacturers. No. 148,810; Nov. 29.
Tire casing and tubes, Automobile-. Corona Cord Tire Company. No. 148,807; Nov. 29.
Tobacco-working machinery. Universal Tobacco Machine Co. No. 148,954; Nov. 29.
Toilet and medicinal preparation. Scott's Preparations, Inc. No. 148,919; Nov. 29.
Tonic, General. Nodro Laboratories, Inc. No. 148,905; Nov. 29.
Tonic for anemia and nervous diseases. Ulrici Medicine Co. No. 148,952; Nov. 29.
Toy auto dump-truck. Dean & Williams Co. No. 148,813; Nov. 29.
Toys, Rubber, composition, textile, celluloid, wooden, paper, and metal. Irokese Trading Corporation. No. 148,870; Nov. 29.
Toys stamped from sheet metal, Certain. American Stamping Company. No. 148,790; Nov. 29.
Upholstery and drapery trimmings. E. Maag. No. 148,895; Nov. 29.
Valves, cocks, pipe-fittings, nozzles, &c., Certain. Lunkenheimer Company. No. 148,894; Nov. 29.
Wagons and coasters for children, Four-wheeled play-. H. C. White Company. No. 148,962; Nov. 29.
Water, Certain medicinal mineral. D. S. Campbell. No. 148,794; Nov. 29.
Water-heaters, Gas. Bastian-Morley Co. No. 148,787; Nov. 29.
Water, Natural thermal. Aachener Thermalquasse: "Kaiserbrunnen" Aktiengesellschaft. No. 148,775; Nov. 29.
Wine, Rhine. Alsace Lorraine Development & Trading Company. No. 148,777; Nov. 29.
Yarns. A. Hymes. No. 148 863; Nov. 29.

ALPHABETICAL LIST OF LABELS.

"A Childs Handkerchief for Every Day in the Week." (For Boxes for Handkerchiefs.) E. & R. Handkerchief Co. No. 23,718; Nov. 29.

"Bottle Decoration." (For Lime Cola.) Lime Cola Company. No. 23,717; Nov. 29.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Airplanes. Curtiss Aeroplane and Motor Corporation. No. 138,900; Nov. 29.
Amtrol. G. T. Hrb. No. 135,747; Nov. 29.
Automobile and furniture polish. Goodman-McCabe Products Co. No. 153,248; Nov. 29.
Automobile brake-lining. Russell Manufacturing Company. No. 131,668; Nov. 29.
Automobiles. Barley Motor Car Company. No. 150,654; Nov. 29.
Automobiles. Kissel Motor Car Company. No. 138,444; Nov. 29.
Automobiles, Passenger-. Yellow Cab Manufacturing Co. No. 151,971; Nov. 29.
Bandeaux. Julius Kayser & Co. No. 146,563; Nov. 29.
Beef, Corned. Libby, McNeill & Libby. No. 150,241; Nov. 29.
Blue, Laundry-. Standard Ultramarine Co. No. 152,726; Nov. 29.
Boilers, Water-tube. Heine Safety Boiler Co. No. 151,946; Nov. 29.
Boot and shoe tape. Wilder & Company. No. 148,630; Nov. 29.
Boots, shoes, and slippers. W. B. Coon Company. No. 149,270; Nov. 29.
Brake-lining. Raybestos Company. No. 152,185; Nov. 29.
Bread, butter, coffee, candy, &c. A. B. Flory. No. 121,174; Nov. 29.
Bread, Rye-. M. H. Wildstein. No. 151,345; Nov. 29.
Brilliantine, face-cream, toilet water, perfume. Cheramy, Incorporated No 152,065; Nov 29
Butter. United Danish Butter Associations, Inc. No. 144,593; Nov. 29.
Butter, condensed and evaporated milks. Dairymen's League Co-operative Association. No. 149,687; Nov. 29.
Cake. Weigan Bros. No. 151,191; Nov. 29.
Candies. Charles N. Miller Company. No. 149 462; Nov. 29.
Candies and chocolates. Taylor's. No. 151,105; Nov. 29.
Candies and chocolates. Wallace & Co. No. 151,190; Nov. 29.
Candy. Betty Alden Food Shoppe. No. 146,511; Nov. 29.
Candy. H. Dilas. No. 145,826; Nov. 29.
Candy. Havasmile Company. Nos. 143,497-8; Nov. 29.
Candy. C. May. No. 149,463; Nov. 29.
Candy. R. M. Richardson & Co. No. 132,405; Nov. 29.
Candy. Samoset Chocolates Company. No. 147,897; Nov. 29.
Candy. Smith-Kirk Candy Co. No. 146,336; Nov. 29.
Canned condensed and evaporated milks. Empire State Dairy Company. No. 149,740; Nov. 29.
Canned fruits and vegetables, olives, olive-oil. California Growers Association, Inc. No. 148,570; Nov. 29.
Canned fruits and vegetables, tea, &c. E. C. Harley Company. No. 141,108; Nov. 29.
Canned goods, cereals, coffee, &c. Amboy Products Co. No. 141,342; Nov. 29.
Canned goods, jams, jellies, &c. Haas, Baruch & Co. No. 142,147; Nov. 29.
Canned goods, tea, coffee, &c. Tolerton & Marfield Co. No. 88,375; Nov. 29.
Canned sardines. Booth Fisheries Company. No. 148 574; Nov. 29.
Cards, Illustrated mailing. E. Nieman. No. 150,079; Nov. 29.
Cars and commercial motor-vehicles, Passenger motor-. Lexington Motor Company. No. 140,764; Nov. 29.
Catalogues and trade journals. Colby Steel and Engraving Co. No. 141,626; Nov. 29.
Cement, Film-. F. St. John. No. 142,838; Nov. 29.
Cement for gluing scratch pads, tablets, &c., Padding-. Harris & Cox. No. 151,270; Nov. 29.
Cement, Portland. Cement Export Company. No. 137,407; Nov. 29.
Cereals and breads, Breakfast. C. W. Graves. No. 137,660; Nov. 29.
Chairs, settees, costumers, sofas. B. L. Marble Chair Company. No. 139,654; Nov. 29.
China, Hand-painted. L. K. Davidsen. No. 145,154; Nov. 29.
Cigarettes. Bloch Bros. Tobacco Co. No. 143,083; Nov. 29.
Cigars. All Saints Cigar Company. No. 145,991; Nov. 29.
Cigars. H. & E. Cigar Company. No. 145,748; Nov. 29.
Cigars. J. N. McCrary. No. 145,637; Nov. 29.
Cigars. Mi Favorita Cigar Company. No. 145,352; Nov. 29.
Cigars. Mildman Cigar Co. No. 144,094; Nov. 29.
Cigars. F. H. Nuttleman. No. 142,903; Nov. 29.
Cigars. Y. F. O'Halloran & Son. No. 143,776; Nov. 29.
Cigars. M. Rosenthal. Nos. 145,084-5; Nov. 29.
Cigars. Silberman & Gast. No. 147,172; Nov. 29.
Cigars. J. F. Welch. No. 145,539; Nov. 29.
Clay product for use in the preparation of rubber compounds. Aluminum Flake Company. No. 151,502 Nov. 29.
Cleaner for white canvas shoes. A. E. Perkins Corporation. No. 145,911; Nov. 29.
Cleaning and polishing compound for automobile-bodies, furniture, &c. M. A. Helm. No. 151,310; Nov. 29.
Clothing. Franklin Simon & Co. No. 138,706; Nov. 29.
Coal. Reliance Coal and Coke Co. No. 152,462; Nov. 29.
Coffee. Phillips-Trawick Company. No. 151,290; Nov. 29.
Coffee, mayonnaise, peanut-butter, horse-radish. J. M. Fay. No. 141,833; Nov. 29.
Coffee, tea, spices, &c. J. A. Folger & Co. No. 150,663; Nov. 29.
Color-restorer and polish for leather shoes. A. E. Perkins Corporation. No. 145,912; Nov. 29.
Combs. American Hard Rubber Company. No. 152,530; Nov. 29.
Compound for removing and preventing scale and rust in boilers, &c. Dakota Compound Company. No. 152,742; Nov. 29.
Containers. American Plastic Products Corp. No. 153,824; Nov. 29.
Cord and thread, Embroidery. F. A. Toombs & Co. No. 144,056; Nov. 29.
Cordage. Hooven & Allison Company. Nos. 135,646-7; Nov. 29.
Cotton and wool waste. Thomson-Diggs Company. No. 148,179; Nov. 29.
Cotton piece goods. Henry Glass & Co. No. 137,613; Nov. 29.
Cream-puffs, eclairs, &c., Filling for. Economic Materials Co. No. 151,265; Nov. 29.
Decarbonizer for internal-combustion engines. Magnesium Products Co. No. 134,258; Nov. 29.
Display-counter, Freezer. Harry L. Hussmann Refrigerator & Supply Company. No. 150,810; Nov. 29.
Egg composition. L. Demartini Supply Co. No. 139,961; Nov. 29.
Expansion-tanks and heating system. American Radiator Company. No. 139,610; Nov. 29.
Eye shields and protectors. Chicago Eye Shield Company. No. 148,257; Nov. 29.
Fabrics, Cotton. S. Eisenberg & Sons. No. 150,442; Nov. 29.
Fabrics, garments, robes, blankets, &c., having magnet wire interwoven within. H. S. Spencer. No. 152,511; Nov. 29.
Floors or walks, Cementitious surfacing material for. Krieghoff Company. No. 120,962; Nov. 22.
Flour, Self-rising. Dulle-Meyer Milling Company. No. 151,756; Nov. 29.
Flour, Self-rising wheat. Reliance Milling Company. No. 136,531; Nov. 29.
Flour, Wheat-. Fisher Flouring Mills Company. No. 144,673; Nov. 29.
Flour, Wheat-. Larabee Flour Mills Corporation. No. 133,361; Nov. 29.
Flowers and plants, Natural. Gude Bros. Co. No. 152,707; Nov. 29.
Fruit pectin, Concentrated. Pectin Sales Co. No. 145,588; Nov. 29.
Fruits, Dried. N. D. Costogue. No. 149,738; Nov. 29.
Fruits, Fresh citrus. Anaheim Citrus Fruit Association. No. 130,564; Nov. 29.
Fruits, Fresh citrus. Chase & Chase. No. 148,870; Nov. 29.
Fruits, Fresh citrus. Old Baldy Citrus Association. No. 151,283; Nov. 29.
Fruits, Fresh citrus. E. A. Springstead. No. 148,136; Nov. 29.
Fur-skins. A. Hollander & Son. No. 133,053; Nov. 29.
Furniture, Church, school and classroom, theater and office. American Seating Company. No. 152,226; Nov. 29.
Garment-pattern. R. B. Pollock. No. 141,803; Nov. 29.
Glandular preparation. E. H. Marcus. No. 152,963; Nov. 29.
Glass substitute. B. M. Hovey. No. 141,106; Nov. 29.
Headlight-lenses. Beckley-Ralston Co. No. 151,529; Nov. 29.
Heating and ventilating systems, &c., Hot-blast. Buffalo Forge Company. No. 143,087; Nov. 29.
Heel-linings. L. G. & S. S. Co. No. 148,660; Nov. 29.
Hosiery. M. Pensak. No. 148,754; Nov. 29.
Ice. A. L. Goodman. No. 151,829; Nov. 29.
Insecticide and vermicide. E. Grossman. No. 150,190; Nov. 29.
Insulating packings, Heat-. Asbestos Ltd. No. 151,606; Nov. 29.
Kiln doors, &c., Flexible sheet material for lining dry-. National Dry Kiln Co. No. 151,808; Nov. 29.
Lacings, Garment-. Matson Lace & Braid Company. No. 151,095; Nov. 29.
Linen and hemp and union piece goods. Kirk Partners & Forestbrook, Ltd. No. 152,568; Nov. 29.

PUBLISHED FOR OPPOSITION.

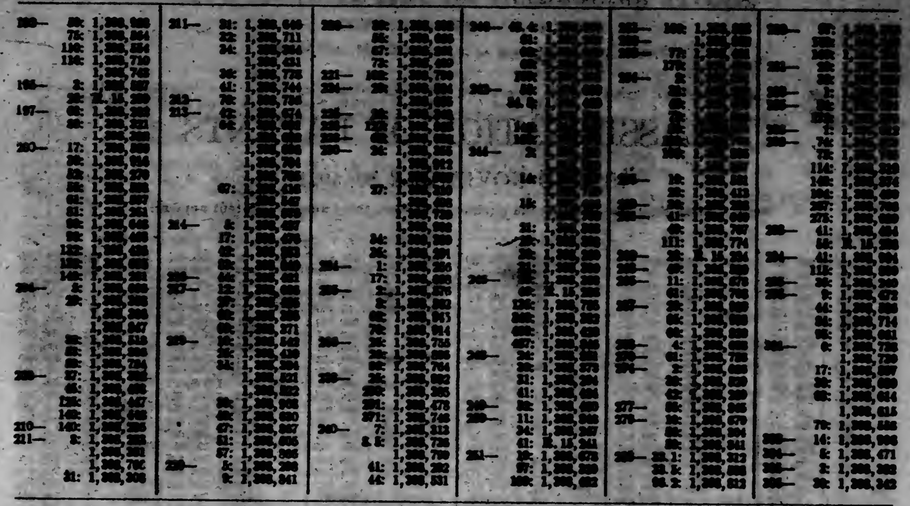
[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Liniment for treatment of nerve, muscular, and like troubles, &c. Gilbert Bros. & Co. No. 152,677; Nov. 29.
Liquid compound. L. Demartini Supply Company. No. 141,417; Nov. 29.
Lithographic solution. Dubar Company. No. 149,683; Nov. 29.
Lotion, Face-. Leona Libbe Inc. No. 152,712; Nov. 29.
Lotion, Healing-. R. W. Bullock. No. 152,947; Nov. 29.
Magnesia, Cream of. Magnesium Products Co. No. 124,256; Nov. 29.
Malt-syrup. J. S. Costa. No. 146,065; Nov. 29.
Marmalade, Apricot. A. Matmser. No. 150,700; Nov. 29.
Matches. John Sexton and Company. No. 153,826; Nov. 29.
Mattresses, pillows, box-springs. International Bedding Co. Nos. 144,190–91; Nov. 29.
Mayonnaise-dressing. H. Kuhlken. No. 147,670; Nov. 29.
Medicinal and pharmaceutical preparation. Bautia & Pratt. No. 151,532; Nov. 29.
Medicine for acidity, flatulency, dyspepsia, &c. H. F. Alexander, M. D. No. 150,050; Nov. 29.
Medicine for mountain fever, kidney trouble, colds, &c. J. W. Sawyer. No. 141,685; Nov. 29.
Metal sheets, flashings, gutters, &c., Protected. H. H. Robertson Company. No. 125,251; Nov. 29.
Milk and vegetable fat, Compound of evaporated skim-. Hebe Company. No. 117,013; Nov. 29.
Milk-cocoa, cocoa, milk-chocolate, chocolate, unsweetened chocolate. Stollwerck Brothers Inc. No. 114,549; Nov. 29.
Milk, Evaporated and condensed. Sheffield Condensed Milk Co. No. 151,138; Nov. 29.
Milk, Preparation for coagulating. Chr. Hansen's Laboratory Inc. No. 141,561; Nov. 29.
Mouthpiece-holders for tobacco products. C. P. Rhodes. No. 147,309; Nov. 29.
Newspaper column, Title for. New York Tribune. No. 152,687; Nov. 29.
Oil, Olive-. Italy Commercial Co. No. 141,525; Nov. 29.
Oil, Penetrating graphite. Graff-O-Products Co. No. 152,998; Nov. 29.
Oils, Alimentary. B. B. Vallbona. No. 135,600½; Nov. 29.
Oils and greases, gasolene, &c., Lubricating. National Independent Oil Company. No. 151,719; Nov. 29.
Ointment, Prophylactic. H. Planten & Son. Nos. 150,560–61; Nov. 29.
Oleomargarin. Ohio Dairy Company. No. 151,060; Nov. 29.
Oleomargarin. H. and S. Weis. No. 147,268; Nov. 29.
Overalls. C. E. Hyman. No. 148,738; Nov. 29.
Packing, Machinery. E. W. Benson. No. 147,899; Nov. 29.
Pamphlets, circulars, &c. M. Hartman. No. 139,889; Nov. 29.
Paper, Roofing-. Galdo Dulsaides y Cia. Almacenistas de Ferreteria S. A. No. 136,370; Nov. 29.
Periodical, Section of. Merchants Trade Journal, Inc. No. 152,179; Nov. 29.
Pies, puddings, and cakes, Filler and flavor for. Choc-Lo Food Company. No. 124,388; Nov. 29.
Pile preparation. G. W. Kirk. No. 152,017; Nov. 29.
Pills, Laxative. Douglas Chemical Laboratories, Inc. No. 144,281; Nov. 29.
Popcorn crisps. G. Rousis. No. 150,334; Nov. 29.
Preparation for the treatment of eczema. K.-H. Co. No. 139,617; Nov. 29.
Preparation for treatment of eczema, pyorrhea, chafing, &c. J. T. Nulty. No. 150,824; Nov. 29.
Preparations for whooping-cough, catarrh, bronchitis, &c. Blue Cross Chemical Co. No. 151,030; Nov. 29.
Preparation used in medicine. Merck & Co. No. 153,009; Nov. 29.
Publication, Monthly. Bodine Electric Company. No. 151,253; Nov. 29.
Publications relating to horse-racing and similar sports, Daily. L. K. Houser. No. 152,469; Nov. 29.
Rat-exterminator. F. P. Foley. No. 151,579; Nov. 29.
Receptacles, Double-walled. Isola Gesellschaft für Wärme- und Kälte-Isolierung. No. 147,784; Nov. 29.
Refrigerators. Brunswick-Balke-Collender Company. No. 154,678; Nov. 29.
Remedy, Pile. Henry Newton Company. No. 150,270; Nov. 29.
Rubber goods, Repair patches for fractured. C. G. Wright. No. 152,100; Nov. 29.
Rubber patch and adhesive outfit, All-. R. M. Hollingshead Co. No. 152,936; Nov. 29.
Rubber patches. Monkey Rubber Co. No. 150,915; Nov. 29.
Salad-dressing. J. G. Sechary. No. 150,939; Nov. 29.
Salve for hemorrhoids, cuts, &c., Healing-. D. C. Matheny. No. 146,573; Nov. 29.
Salve or ointment for the hair. V. B. Wilson. No. 135,906; Nov. 29.
Sausage, bacon, ham, scrapple. H. S. Schafer. No. 147,912; Nov. 29.
Scarfs, cravats, neckties. Schoenfeld Bros. No. 148,628; Nov. 29.
Seasoning preparations. D. C. Blacker. No. 150,606; Nov. 29.
Shaving preparation, hand-lotions, face-powder, &c. F. Uhry. No. 152,290; Nov. 29.
Sheets and pillow-cases. Ernest Simons Mfg. Co. No. 149,527; Nov. 29.
Silk, wool, cotton, and linen yarns and mixtures thereof. Steinberger Bros. No. 152,657; Nov. 29.
Snap-fasteners and press-buttons, Dress. Stone-Stearns Co. No. 146,849; Nov. 29.
Soap, Toilet. Los Angeles Soap Co. No. 152,260; Nov. 29.
Soaps. Colgate & Company. No. 152,985; Nov. 29.
Sound-reproducing-machine, cabinets. Beckwith-O'Neill Company. No. 147,763; Nov. 29.
Spraying vegetation, Chemical preparation for. J. Schnarr & Company. No. 146,187; Nov. 29.
Stogies. B. M. Meyer. No. 148,850; Nov. 29.
Stovepipe. Wheeling Corrugating Company. No. 152,492; Nov. 29.
Sugar product. Ward Baking Company. No. 148,569; Nov. 29.
Sugar, syrups, and molasses. Salsburg Refining Company. No. 147,320; Nov. 29.
Suits, overcoats, pants, Boys'. F. Schwartz and Son. No. 145,048; Nov. 29.
Surgical appliances. W. B. Thompson. No. 152,047; Nov. 29.
Tables, chairs, buffets, &c. John Breuer Company, No. 148,418; Nov. 29.
Tanks, Steel. Coatesville Boiler Works. No. 150,134; Nov. 29.
Threads and yarns, Cotton. Richardson Silk Company. No. 151,563; Nov. 29.
Threads, Sewing-. Max Pollack & Co. No. 153,901; Nov. 29.
Tires, Automobile rubber. Inland Rubber Company. No. 152,257; Nov. 29.
Tobacco. Consolidated Companies Inc. No. 145,996; Nov. 29.
Toilet preparations. H. Gabilla. No. 151,085; Nov. 29.
Tonic, General. "Vita Products," Inc. No. 151,894; Nov. 29.
Toys. Gong Bell Manufacturing Co. No. 152,008; Nov. 29.
Trunks, portmanteaus, &c. Hepburn, Gale and Ross. No. 137,800½; Nov. 29.
Underwear, Athletic. John C. Dettra & Company. No. 147,716; Nov. 29.
Varnish, binder and varnish, Rapid-drying. John A. Steen Varnish Company. No. 153,371; Nov. 29.
Vinegar. National Vinegar Company. No. 143,654; Nov. 29.
Vitamin compound. G. Best. No. 151,201; Nov. 29.
Wallboard-plaster. United States Gypsum Company. No. 143,414; Nov. 29.
Washing-powder. L. Mitchell & Co. No. 128,788; Nov. 29.
Wood products. Sohl & Company. No. 137,969; Nov. 29.
Yarn, Sewing-. Magnolia Textile Corporation. No. 144,343; Nov. 29.
Yarn, Wool and silk knitting-. L. Hirsch. No. 153,931; Nov. 29.

CLASSIFICATION OF PATENTS

ISSUED NOVEMBER 29, 1921.

NOTE.—First number—class, second number—subclass, third number—patent number.



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[Decisions of the United States Circuit Court of Appeals are indicated by the letter ([d]) and of the Supreme Court of the United States by two stars ([dd]).]

ERRATA.

1,400,870, page 352, first claim, line 3, strike out the words "said connecting means."
Vol. 288.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

Vol. 283—No. 1. TUESDAY, DECEMBER 6, 1921. Price—$6 per year
[PUBLISHED DECEMBER 6, 1921]

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscription, $6.00 per annum; single numbers, 20 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

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Designs	64—No. 69,922 to No. 69,985, inclusive.	
Trade-Marks	305—No. 148,935 to No. 149,239, inclusive.	
Reissues	4—No. 15,242 to No. 15,245, inclusive.	
Total	1,149	

Adhesion of Finland to the International Convention for the Protection of Industrial Property.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., November 23, 1921.

The following communications, referred to this Office by the Secretary of the Interior, is published for the information of those concerned.

THOMAS E. ROBERTSON,
Commissioner.

(Translation.)

LEGATION OF SWITZERLAND,
Washington, D. C., September 23, 1921.

Mr. SECRETARY OF STATE:

By my Government's direction, I have the honor to inform your excellency that by a note dated August 2, 1921, the Government of the Republic of Finland notified the Swiss Federal Council of its decision to adhere, with the consent of the Parliament of the Republic to the International Convention of Paris of March 20, 1883, for the Protection of Industrial Property revised at Brussels, December 14, 1900, and at Washington, June 2, 1911, with its final protocol (see article 18 of the Convention).

In accordance with article 16, paragraph 3, of the Revised Union Convention of Paris the adhesion will take effect one month after the sending of the notice to the other countries in the Union by the Swiss Government, that is to say, on September 20, 1921.

I beg your excellency kindly to take formal note of that adhesion.

In the name of the Federal Council.

MARC PETER,
Minister of Switzerland.

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., November 21, 1921.

Julius Medvecsky, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the patent of Francis W. Borton, 1055 East 27th street, Cleveland, Ohio, granted Nov. 2, 1915, No. 1,120,125, and application for patent of Julius Medvecsky, 95 Wilbur avenue, Long Island City, N. Y., and a notice of such declaration sent by registered mail to Medvecsky at the said address having been returned by the postmaster undeliverable, notice is hereby given that unless said Medvecsky, his assigns or legal representatives, shall enter an appearance thereto within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., November 23, 1921.

Travers Bros. Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Columbian Rope Company, Auburn, N. Y., for registration of a trade-mark and trade-mark registered Mar. 13, 1901, No. 34,084 to Travers Bros. Co., 107 Duane street, New York, N. Y., and a notice of such declaration sent by registered mail to Travers Bros. Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Travers Bros. Co., its assigns or legal representatives, shall enter an appearance thereto within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Asst. Commissioner.

NOTICE—DESIGN PATENTS.

When an application for a design patent is found allowable, the patent will be granted for the term asked in the application papers unless specific request has been made for notice prior to allowance so that the term may be extended. Hereafter the Office will delay allowance and notify the applicant ONLY in cases where a specific request is filed.

4706

Condition of Applications Under Examination at Close of Business November 26, 1921.

Basis No.	Divisions, Examiners, and subjects of inventions. (Oldest new case, Nov. 6; oldest amended, Feb. 4.)	Oldest new application and oldest action by primary examiner other than...		Average Age in Months
		Nov.	Amended.	
214	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Soil-tilling Implements.	June 20	June 14	864
128	2. BALDWIN, M., Bag Cutters; Dairy; Medicinal Preparations; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Jan. 17	Apr. 8	1,730
175	3. RICH, WM. J., Electric Heating and Electrodes; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Typecasting; Plastic Metal Working.	Mar. 26	Feb. 21	618
294	4. MERRITT, A. B., Cutters and Trimmers; Harness, Saddlery, and Horse Furnishings; Hoisting; Hooks and Keepers; Metal-Line Implements; Rope; Textile Material or Allied Products; Threading; Punching and Perforating Implements; Railway Mail Delivery; Typewriting Desks.	Jan. 10	June 13	1,720
167	5. MAGNAB, J. F., Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cards or Boxes.	Feb. 7	Mar. 18	906
208	6. LEWIS, A. A., Bleaching and Dyeing; Chemicals; Explosives, Fireworks and Match Compositions; Fertilizers; Lubricants; Paints; Compositions; Resinous Preparations.	Apr. 18	June 20	1,030
213	7. JARBOE, C. G., Games and Toys; Optical; Photographic; Vehicles.	Apr. 12	June 20	2,008
128	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible Sheet Securing Devices; Furniture; Kitchen and Table Articles; Stove Furniture; Supports.	Aug. 15	Oct. 14	699
221	9. TRYON, F. W., Air and Gas Pumps; Hydraulic Motors; Injectors and Siphons; Motors, Fluid; Motors, Fluid-Current; Pumps.	Jan. 10	Aug. 19	1,041
205	10. MITCHELL, P. H., Lamp Attachments, Lamp Supports, Annular Burners and Burner Tubes; Lamp Globes—Bodies and Tops; Lamp Shades; Lamps, Burners, and Chimneys; Lighting Systems; Miscellaneous.	May 14	Sept. 9	1,114
154	11. ARMSTRONG, H. C., Bottle Fastenings; Bottles, Jars, and Cans; Boxes, Receptacles, and Closures; Rivet Setting; Harness; Leather Manufactures; Sealing and Sealing Wax Apparatus.	July 28	July 27	486
222	12. PIERCE, F. P., Machine Elements.	May 16	Aug. 24	1,020
239	13. NIXON, G. A., Belt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Mesh-Fabric Making; Drivers, Headers, and Screw-Threaded Fasteners; Gear Cutting, Milling, and Planing; Wood Preserving; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal-Working; Needle and Pin Making; Tempering.	Dec. 15	Oct. 6	1,771
223	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Forging; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Drawing and Straightening; Wire Working.	Feb. 13	Aug. 11	871
209	15. REDROW, W. H., Bread, Pastry, and Confection Making; Glue; Leatherid Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Nov. 6	Mar. 15	1,793
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Dec. 8	Mar. 1	1,790
207	17. RAFTER, G. S., Casting, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Mar. 31	June 17	1,118
220	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Jan. 15	Feb. 16	1,001
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Jan. 10	May 2	1,080
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	May 19	July 9	1,536
212	21. THURBER, W. L., Brakes and Gigs; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Mar. 29	July 1	706
240	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making.	June 16	Sept. 3	538
217	23. GROESBECK, W. D., Acoustics; Code-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Jan. 21	July 13	903
144	24. DARBY, J. J., Apparel; Apparel Appendages; Garment Supporters; Sewing-Machines.	Feb. 19	June 24	1,105
218	25. LIGHTFOOT, J. H., Agricultural; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separators.	Aug. 20	Aug. 20	317
185	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime Mover Dynamo Plants.	Apr. 25	June 8	795
214	27. ANDERSON, L. S., Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus.	Apr. 22	July 12	1,809
239	28. BENSON, A. R., Internal-Combustion Engines.	Feb. 11	Apr. 26	1,805
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Checks or Registers; Coopering; Tool Handle Fastenings; Wheelwright Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking Tools.	Feb. 26	Aug. 15	799
152	30. SULLIVAN, M. R., Illuminating-Burners; Illuminations; Liquid and Gaseous Fuel Burners; Typewriting Machines.	May 4	Sept. 20	1,302
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Dec. 8	Feb. 14	2,018
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange.	Feb. 3	Sept. 6	905
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	May 21	June 8	730
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Signaling and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	Aug. 19	Sept. 27	310
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	Sept. 13	Sept. 2	720
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	June 30	June 2	1,538
197	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers.	Mar. 5	Mar. 10	1,615
278	38. IDE, G. E., Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Sanitary; Stone-Working; Wells.	June 1	June 2	1,218
220	39. COWLES, A. W., Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distributing.	Nov. 18	Mar. 2	2,027
272	40. OBERLIN, J. J., Bearings; Buttons and Jars; Clutch-Controlled Apparatus; Cloth, Leather, and Rubber Bag, Case, Pocket, and Cushion Appendages; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Woven Receptacles.	Jan. 10	Apr. 6	2,427
135	41. BROWN, J. L., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels.	June 7	July 9	854
114	42. CUTTING, H. C., Electrical Conduits and Insulators; Electric Signaling; Electric Lamps.	Dec. 15	Jan. 13	1,617
262	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Receptacles; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Liquid Separators or Purifiers.	Jan. 19	Feb. 10	1,714
253	44. SHAFFER, C. H., Air-Guns, Compressed and Vapor; Boats and Rafts; Wings and Closing Portable Receptacles; Marine Propulsion; Railway Head Appliances; Refrigeration Ships.	Feb. 8	Oct. 6	817
270	45. GILES, A. H., Journal-Boxes, Pulleys, and Shafting; Lubrication; Meters; Spring Devices.	May 6	July 15	1,178
232	46. WOLCOTT, C. L., Curtains, Shades and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Analogous Fluid Pipes and Hydrants; Wearing Apparel; Saddles.	Apr. 13	June 24	1,186
254	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid Pressure Brake and Analogous Systems.	Mar. 15	July 6	1,178
115	48. ROBERTS, O. B., Electricity, Conductors; Miscellaneous Electrical Applications.	Jan. 4	Feb. 4	1,935
168	TRADE MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, Jr.			
	Trade Marks	Dec. 19	Aug. 1	4,191
	Designs	Apr. 29	May 3	2,279
	Labels and Prints	Oct. 25	Nov. 1	343

Total number of applications awaiting action, excluding Trade-Mark division, 32,670; Trade-Mark division, 5,256.

PATENTS

GRANTED DECEMBER 6, 1921.

1,398,954. CUFF-BUTTON. ROBERT B. B. ALLEN, Pensacola, Fla. Filed Mar. 7, 1921. Serial No. 450,201. 9 Claims. (Cl. 24—102.)



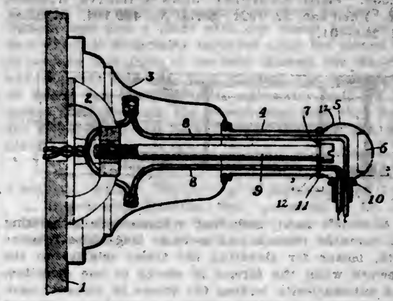
9. In a device of the class described, a button member, a shank member comprising two loops secured to said button member and having closed ends, said loops having outwardly bent sections between their ends to provide laterally enlarged passages; a button bar having an enlarged section between its ends sliding freely lengthwise of said loops and removable laterally through said enlarged passages, a spring housed between said loops normally to maintain said button bar out of line with said laterally enlarged passages, and a follower plate having portions extending outside of said loops to compress said spring.

1,398,955. PENCIL. EDWARD L. ANDERSON and LOUIS A. ANDERSON, Attleboro, Mass., assignors to R. & G. Company, Attleboro, Mass. Filed Jan. 17, 1921. Serial No. 437,759. 5 Claims. (Cl. 120—18.)



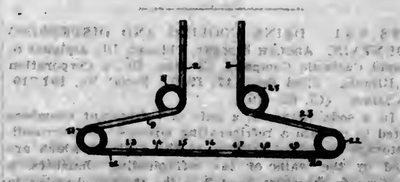
1. In a pencil, a case having a tapered end, a disk frictionally engaged within the case and with the tapered end so as to be held by the latter against sliding, an inner tube in the case having an enlarged outer end rotatably engaged with the case and having a reduced inner end forming an abutment, a washer engaging the abutment and frictionally fitted over the reduced end of the tube, a second washer frictionally fitted in the case and rotatably receiving the reduced end of the tube, a third washer frictionally fitted on the tube and projecting beyond same, an apertured disk engaged within the third washer and with the terminal of the reduced end of the tube, a lead guiding tube received at its upper end in the disk aperture, and lead feeding means including a thread member engaged at one end with the first named disk and at its opposite end being received in an opening provided therefor in the second named disk.

1,398,956. ELECTRIC FIXTURE. ARTHUR B. ALLWORTH, Meriden, Conn., assignor to Edward Miller & Company, Meriden, Conn., a Corporation of Connecticut. Filed Oct. 29, 1920. Serial No. 420,388. 1 Claim. (Cl. 240—78.)



In an electric fixture, a tubular extension having a hollow head portion at its outer end, the outer side of said head portion having an opening, an internal supporting shoulder on said tubular extension, an internal abutment supported on said shoulder, said abutment having a wire-clearance passage and a screw passage for a screw fastening, a screw fastening arranged to be passed into the open end of said head and through said abutment and tubular extension, a shoulder on said screw for engaging the holding shoulder of said abutment to hold the fixture in place, and a cover for the opening in said head.

1,398,957. AUTOMOBILE-FENDER. EDWARD V. ALLEN, Waukegan, Ill. Filed Apr. 21, 1921. Serial No. 463,170. 5 Claims. (Cl. 293—55.)



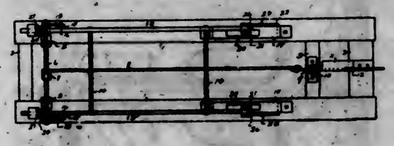
5. A fender having a front or impact portion formed with end coils, upward and downward turns between said coils, rear spring portions and attaching arms.

1,398,958. EAR-MUFF. DAVID BASCH, New York, N. Y. Filed Feb. 4, 1918. Serial No. 215,261. 5 Claims. (Cl. 2—121.)



3. An ear muff comprising a pair of ear covers, an adjustable support therefor comprising a pair of overlapping flat springs arranged to press the rear edges of the covers toward each other, means for preventing the separation of said flat springs, a pivotal connection intermediate an edge of each cover and one of said flat springs, means for holding the flat springs in adjusted position and springs at said pivotal connections arranged to swing the forward edges of the ear covers inwardly.

1,398,959. VEHICLE-HOIST. JOHN G. BOUTTE, Houston, Tex. Filed Jan. 22, 1921. Serial No. 439,104. 4 Claims. (Cl. 254—91.)



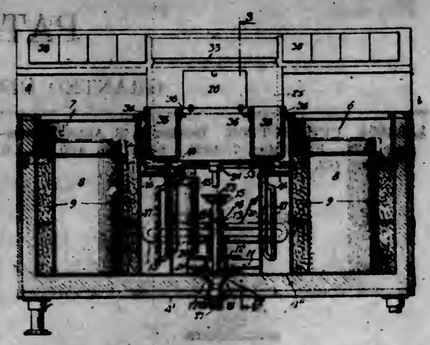
1. A vehicle hoist, including a framework, a hoisting frame mounted thereon and movable lengthwise relative thereto, means for elevating the frame relative to the framework when the former is moved in one direction, means automatically locking the frame in elevated position, said means including a rack, a manual lever pivoted to the framework one end of which is in coöperative relation with said rack, a link pivoted at one end to the other end of said lever and at its other end pivotally connected to the elevating means, said elevating means being formed to permit the lowering of the frame by gravity when the locking means are released.

1,398,960. DISTILLATION OF SULFUR. HAROLD SIMMONDS DAVIS, Pittsburgh, and WILLIAM ALLEN HAMOR, New Kensington, Pa., assignors to Texas Gulf Sulphur Company, Bay City, Tex., a Corporation of Texas. Filed Apr. 27, 1921. Serial No. 465,064. 6 Claims. (Cl. 23—176.)

6. A retort for distilling sulfur having such parts thereof as are in contact during the distillation with molten sulfur protected against corrosion by a corrosion-resistant medium containing iron and aluminum.

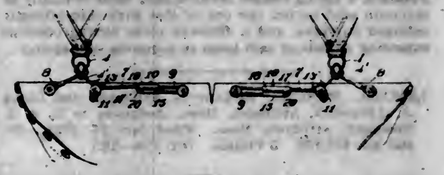
1,398,961. DRINK COOLING AND DISPENSING FOUNTAIN. ADOLPH ECKERT, Chicago, Ill., assignor to Liquid Carbonic Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 17, 1917. Serial No. 191,719. 4 Claims. (Cl. 62—79.)

1. In a soda fountain, a pair of refrigerant chambers adapted to contain a refrigerating mixture, an intermediate storage chamber, portions of the walls of which are formed by the walls of the refrigerating chambers, a pair of water chambers located in the storage chamber in heat-conductive relation with the respective refrigerant chambers, a two-compartment reservoir in the intermediate chamber, connections from the respective water chambers to a compartment of said reservoir, circulating coils in the respective water chambers adapted to receive and to cool charged water, connections from said circulating



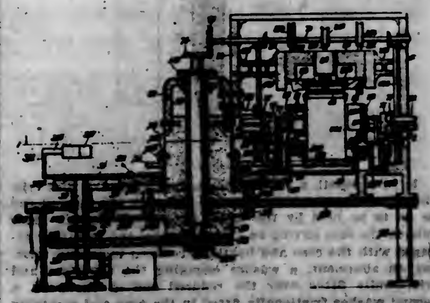
coils to the other said compartment of the reservoir, and means for drawing off the charged water from said reservoir.

1,398,962. CONCEALED SUSPENDERS. ALBERT H. GRAVES, Evanston, Ill.; Emma L. Graves executrix of the Estate of said Albert H. Graves, deceased. Filed June 7, 1917, Serial No. 173,287. Renewed July 29, 1921. Serial No. 488,451. 9 Claims. (Cl. 241—25.)



3. In suspenders, the combination of shoulder straps adapted to be worn under the shirt and provided with cast-off hangers located approximately above the hips, of a waistband attachment consisting of a strand adapted to be buttoned to the waistband at the front and rear regions thereof, and means for detachably coupling the intermediate part of said strand to the corresponding cast-off hanger, through the shirt.

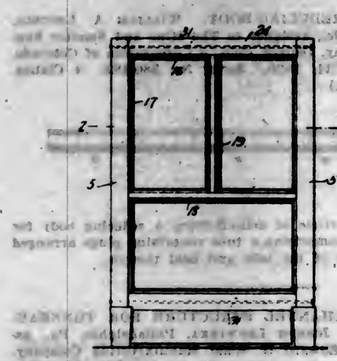
1,398,963. APPARATUS FOR APPLYING CLOSURES. EUGENE L. GREENEWALD, Washington, D. C. Filed June 30, 1915. Serial No. 37,282. 51 Claims. (Cl. 13—14.)



1. Apparatus for attaching a cover part to a tubular body part which comprises the combination of, means for

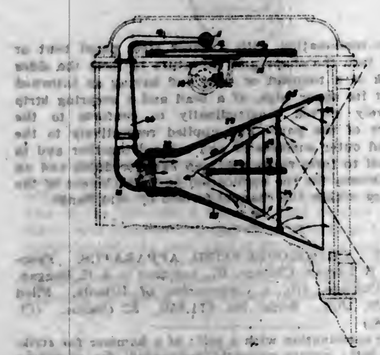
assembling a body part and a cover part, and means for corrugating the two parts at their edges and bending the same so that the edges will define an edge of a lesser length than they had before the corrugating and bending operations.

1,398,964. REFRIGERATOR CONSTRUCTION. HERBERT JUDE GWYNE, Yonkers, N. Y. Filed Aug. 11, 1920. Serial No. 402,807. 8 Claims. (Cl. 45—102.)



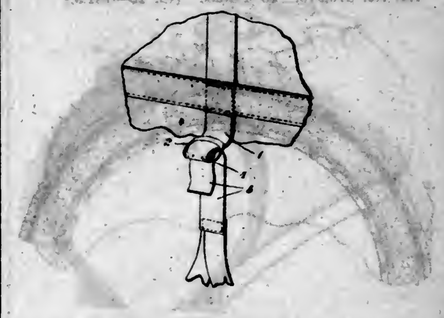
1. In a device of the character described, two opposed side panel units including corner posts, top and bottom framing pieces secured to said corner posts, two side panel units and top and bottom panel units, engaging said first mentioned side units and rods passing transversely through said first mentioned side units and through said top and bottom units for securing the parts together in cabinet formation.

1,398,965. AMPLIFYING SYSTEM FOR A COMPLEX SOUND-VIBRATION SOURCE. LORREN M. HART, New York, N. Y. Filed June 10, 1919. Serial No. 303,041. 6 Claims. (Cl. 181—27.)



6. A combined means for mounting a sound deflector and for retaining the walls of a sound amplifier comprising a spider forming a central mounting and having outwardly extending posts and wedge-shaped bosses at the ends of said posts for engaging the flaring walls of said amplifier.

1,398,966. ADJUSTABLE STRAP-FASTENING. FRED HEMMI, New York, N. Y. Filed July 22, 1920. Serial No. 398,176. 2 Claims. (Cl. 24—198.)



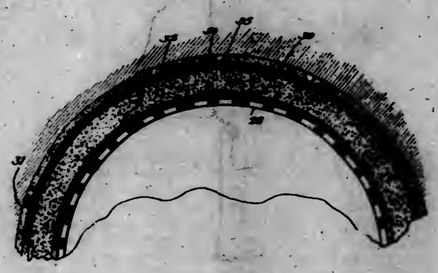
1. An adjustable fastening device comprising, in combination, two straps or sections of strap one of which is folded back upon and secured to itself to form a permanent loop and a plate with one closed and one open slot which is detachably mounted upon the looped strap by passing both folds of the loop through the closed slot and the rear fold only back through the open slot and in which the other strap is adjustably held by being passed first through the closed slot and then behind the closed strap and back through the open slot of the plate.

1,398,967. PUMP. GRANVILLE A. HUMASON and JULIUS A. BUETSCHEL, Houston, Tex., assignors to Dr. A. L. Miller, Harris county, Tex. Filed June 21, 1920. Serial No. 390,514. 4 Claims. (Cl. 103—63.)



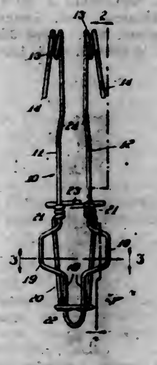
1. In a pump, a plunger including an elongated nipple, expansible sectional packing rings surrounding the nipple, resilient members interposed between the sections, and also between said sections and the nipple, spacer rings between said sectional rings and means for confining said rings on the nipple.

1,396,968. SUPPORTING-FORM FOR CONCRETE AND MASONRY STRUCTURES. GEORGE W. JACKSON, Evanston, Ill., assignor, by mesne assignments, to George W. Jackson & Fitzpatrick Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 2, 1920. Serial No. 370,978. 13 Claims. (Cl. 25—181.5.)



1. An individual, portable lagging unit for supporting forms comprising a skeleton frame, and separately formed fillers partially occupying the openings therein and of less thickness than the depth of the frame, and permanently fastened to the frame, to provide attaching ribs or flanges for the lagging units.

1,396,969. CLOTHESPIN. FRED M. KILPOYLE, Storrs, Utah. Filed May 20, 1920. Serial No. 382,511. 2 Claims. (Cl. 24—247.)



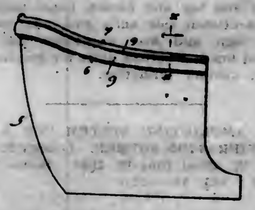
1. A clothes pin, comprising a main member composed of a single piece of non-rusting wire bent to provide two parallelly arranged strands or portions, with the ends of the strands or portions curled upon themselves to provide resiliency and terminating in downwardly presented portions disposed toward one side of a longitudinal axis of the main portion and normally tending to move toward a plane substantially parallel with the main portion, said downwardly presented portions constituting line gripping portions, while at the intermediate or closed end of the member the strands are disposed in parallel relation for a predetermined distance and then bent laterally in opposite directions to provide an enlarged space therebetween terminating in a restricted elongated gripping loop, and a second member composed of a single piece of wire bent into loop form to provide similarly disposed strands or portions whose ends are formed to slide on the strands of the main member above said enlarged space, the ends of the second member being bent to provide a finger-engaging portion while the intermediate closed end of the second member is bent at right angles to the main part thereof and formed to provide a head of dimensions greater than the transverse dimensions of the elongated gripping loop of the main member, said head being provided with a reduced neck adapted to slide between the strands of the main member.

1,396,970. REDUCING-BODY. WILLIAM A. LESCHELL, Denver, Colo., assignor to The Mine and Smelter Supply Company, Denver, Colo., a Corporation of Colorado. Filed May 11, 1920. Serial No. 380,462. 4 Claims. (Cl. 83—9.)



1. As an article of manufacture, a reducing body for use in mills comprising a tube containing plugs arranged longitudinally of the tube and held therein.

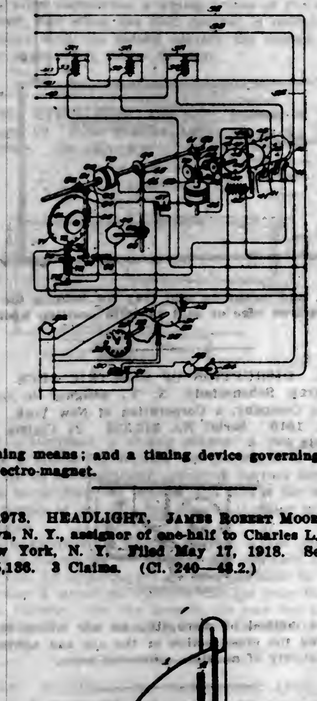
1,396,971. CHANNEL STRUCTURE FOR TONNEAU-PANELS. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 27, 1919. Serial No. 279,589. 3 Claims. (Cl. 296—30)



1. The combination with a sheet steel panel bent or stamped into the shape and curvature to form the sides and back of a tonneau or seat, and having an inturned flange at its upper edge, of a bead and a securing strip respectively curved longitudinally to conform to the curvature of the panel and applied respectively to the inner and outer surfaces of and secured together and to said panel to form respectively an exterior finish and an interior means for the application and attachment of the upholstery within the channel formed by said flange.

1,396,972. CHIME-OPERATING APPARATUS. FREDERICK B. LITTLE, Chicago, Ill., assignor to J. C. Deagan, Inc., Chicago, Ill., a Corporation of Illinois. Filed May 23, 1921. Serial No. 471,850. 32 Claims. (Cl. 58—38.)

1. The combination with a bell; of a hammer for striking the bell; electro-magnetic mechanism for operating the hammer; a switching device controlling said electro-magnetic mechanism; actuating mechanism for operating the switching device and provided with means that take part in varying the extent of operation of such actuating mechanism to vary the number of times of operation of the switching device according to the hour which is sounded; detaining means coöperating with the aforesaid means to define the extent of each operation of the switch actuating mechanism; an electromagnet governing said



detaining means; and a timing device governing the latter electro-magnet.

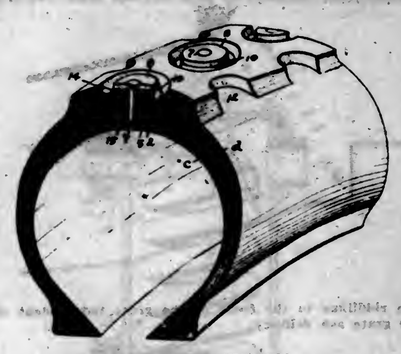
1,396,973. HEADLIGHT. JAMES ROBERT MOORE, Tarrytown, N. Y., assignor of one-half to Charles L. Cassidy, New York, N. Y. Filed May 17, 1918. Serial No. 235,136. 3 Claims. (Cl. 240—42.2.)

1. A headlight comprising a casing having a parabolic inner, reflecting surface, a front for the casing, a lamp within the casing, said lamp being located in the focal axis of the reflector, a trough-shaped member below the lamp, said member having sides extending upward to approximately the focal axis of the reflector and on either side of the lamp, a screen in front of the lamp, and means for supporting the member within the casing, said means engaging the casing in proximity to the front.

1,396,974. [WITHDRAWN.]

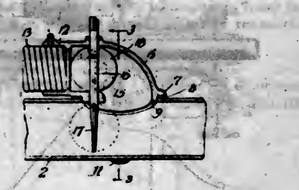
1,396,975. TIRE-CASING. FRANK G. REMOS, Akron, Ohio. Filed Aug. 24, 1920. Serial No. 405,635. 1 Claim. (Cl. 152—16.)

A tire casing having successive bosses developed in its periphery with depressions about the same and traction means built in and upon said bosses comprising headed rivet spindles extending diametrically through said bosses



and anchored on the inner side of the casing and washers on said spindles resting on said bosses.

1,396,976. CUT-OUT VALVE. ELMER RYDER, Argo, Ill. Filed Nov. 15, 1920. Serial No. 424,068. 2 Claims. (Cl. 277—19.)

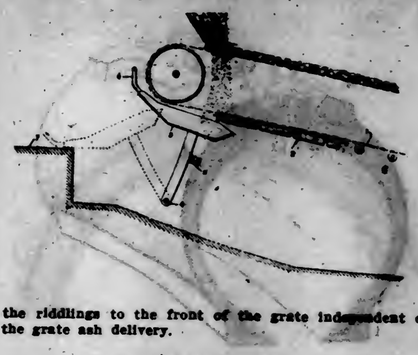


1. The combination with an exhaust pipe having a hole made in its wall without cutting the pipe in two, of an elbow shaped casing applied against said pipe about said hole and having but one passage extending therethrough and opening into said exhaust pipe through said hole, said casing having a portion projecting into said passage adjacent said hole, a single valve stem extending across said passage and journaled in said projection and the outer wall of said casing and terminating short of the wall of the exhaust pipe, and two disk shaped valve members on said stem, one in the exhaust pipe and the other in the passage in said casing and arranged at such an angle to each other that when the stem is turned to move one disk open the other will be moved closed.

1,396,977. CHAIN-GRATE STOKER. FRANCIS CHARLES SELLENS, London, England, assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Mar. 12, 1918. Serial No. 221,979. 3 Claims. (Cl. 110—40.)

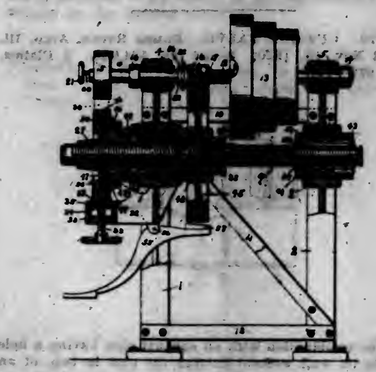
1. The combination with a chain grate stoker arranged to permit fine riddlings to fall through the upper and the lower runs of the grate, of a plate beneath the forward end only of the lower run of the grate and closely adjacent thereto, said plate being adapted to receive the riddlings or small falling through the upper run of the grate and hold them in position to be moved toward the

front of the grate by the lever rod of the grate, the grate being arranged to cooperate with the plate to carry



the riddlings to the front of the grate independent of the grate ash delivery.

1,398,978. TOOL-DRIVING MACHINE. HENRY COLLINS SHAVER, St. Marys, Ohio. Filed Nov. 17, 1919. Serial No. 338,632. 4 Claims. (Cl. 74—89.)



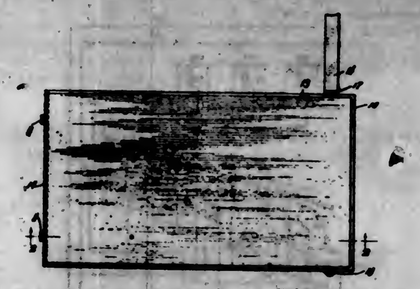
1. The combination of a threaded spindle, bearings in which the spindle is rotatable and slidable, means to rotate the spindle, means to prevent the rotation of the spindle, a nut on said spindle, means to prevent the nut from turning, means to rotate the nut on the spindle, and means to prevent the nut from moving longitudinally of the axis of the spindle, so as to cause longitudinal movement of the spindle.

1,398,979. COMPOSITION OF MATTER. JAMES H. SMITH, Jr., Rutherford, and CLARENCE A. WILSON, Passaic, N. J. Filed Nov. 8, 1919. Serial No. 336,697. 8 Claims. (Cl. 87—17.)

1. A composition of matter comprising non-vulcanized rubber, a solvent of rubber, and a small amount of acetone.

1,398,980. STENCIL PRINTING APPARATUS. HENRY B. TAMARKIN, New York, N. Y. Filed Mar. 3, 1921. Serial No. 449,866. 1 Claim. (Cl. 101—126.)

A stencil printing apparatus comprising a tray, an ink containing printing bed therein, the exposed face of said bed being flush with the open top of said tray, a stencil sheet on top of said bed, a gate attached to one of the transverse edges of said stencil sheet having perforations, studs on said tray extending through said per-



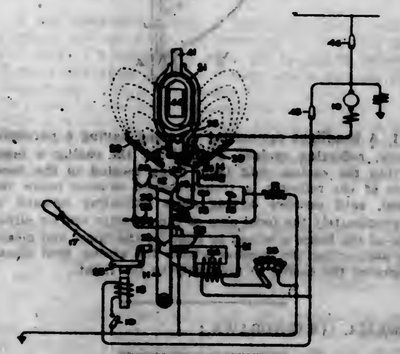
forations, and means on said tray for holding the opposite transverse edge of said sheet in position upon said bed.

1,398,981. DISRUPTION OF ELECTRIC ARCS. JOHN F. TAITLE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 4, 1919. Serial No. 342,826. 27 Claims. (Cl. 200—144.)



25. The method of disrupting an arc which consists in reducing the cross-section of the arc and splitting it into a plurality of multiple connected parts.

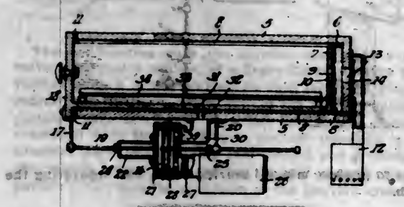
1,398,982. CIRCUIT-INTERRUPTER. JOHN F. TAITLE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 15, 1919. Serial No. 345,003. 4 Claims. (Cl. 200—147.)



1. The combination in an electric switch, of a pair of relatively movable cooperating circuit interrupting contacts, the first contact being biased away from the second and having a relatively small moment of inertia, the second contact being biased toward the first and

having a relatively large moment of inertia, the second contact being carried in a support so as to permit of a longitudinal and tilting movement when the first contact makes engagement therewith, whereby the contacts accurately aline themselves, a wiping action of the contacts is secured, and when the first contact is moved out of engagement with the second contact the second contact will not immediately follow the first.

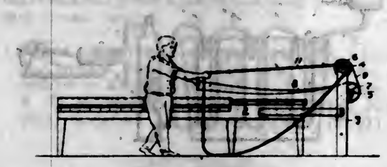
1,398,983. STERILIZING DEVICE. EDWARD R. ULRICH, Chicago, Ill. Filed Feb. 18, 1921. Serial No. 445,981. 7 Claims. (Cl. 167—3.)



1. In a sterilizer, a sliding drawer, a gas generating chamber, a means for drawing the gas contents from the drawer by an automatically operating suction mechanism incident to opening the drawer and means for injecting a new supply of gas into the drawer incident to closing the drawer.

2. In a sterilizer, a sliding drawer, a gas generating chamber, a means for ejecting the gas contents from the drawer into an intermediate chamber incident to opening the drawer, a means for ejecting the gas from the intermediate chamber into the outside air and for injecting a new supply of gas into the drawer incident to closing the drawer.

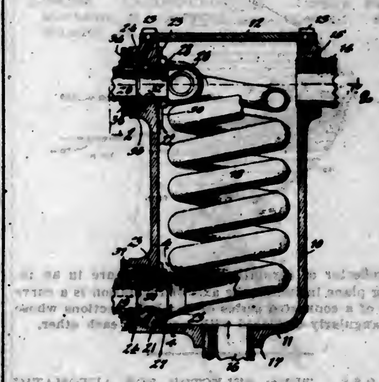
1,398,984. WINDING AND UNWINDING APPARATUS. WALTER P. VOTH, Willoughby, Ohio. Filed Oct. 18, 1920. Serial No. 417,668. 5 Claims. (Cl. 242—55.)



4. A table having a pair of rollers transversely thereof, one of said rollers having a strip of stock material wound within the folds of a strip of protecting material connected with and adapted to wind upon the other roller, and a horizontally traveling connection for said winding roller extending lengthwise of said table.

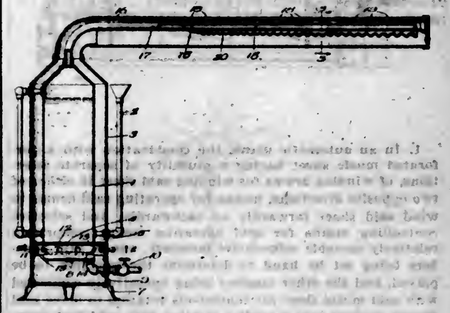
1,398,985. COUPLING DEVICE FOR WATER-HEATERS, &c. CALVIN P. WIEBER, Buffalo, N. Y. Filed Mar. 27, 1920. Serial No. 369,176. 8 Claims. (Cl. 285—90.)

8. A chamber having an inlet and an outlet, upper and lower openings in the upper and lower parts of its side wall and seats around the outer side of said openings, a cock arranged in said chamber and provided with upper and lower coupling heads arranged opposite said openings, respectively, a coupling sleeve arranged in each of said openings and having its inner end connected by a swivel joint with the adjacent head of the cock and adapted to be connected at its outer end with a pipe, and its intermediate part being provided with an inwardly facing enlar-



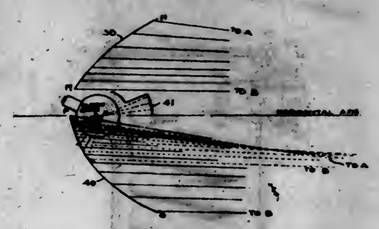
nal shoulder engaging said seat and with an outwardly facing shoulder and a clamping ring engaging its inner end with said outer shoulder and having a screw connection with said wall.

1,398,986. STEAM-PRODUCER. WALLACE S. WARNOCK, Chicago, Ill. Filed Dec. 16, 1920. Serial No. 431,109. 10 Claims. (Cl. 91—44.)



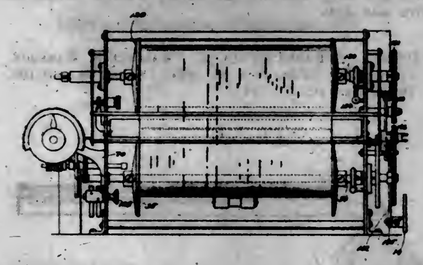
10. In a steam producer, the combination with a water container; of means for heating the water in the container to produce steam; two communicating nested spaced apart pipes through one of which the steam is conveyed to the other from the container; means for effecting the flow of gas through the other pipe and into the steam conveyed to this pipe by the first pipe; and means for heating said gas.

1,398,967. REFLECTOR FOR HEADLAMPS. Clemens N. Wemme, Lebanon, Pa. Original application filed June 10, 1919, Serial No. 303,292. Divided and this application filed Mar. 25, 1920. Serial No. 368,460. 12 Claims. (Cl. 240—41.)



1. A reflector of revolution whose curvature in an intersecting plane including the axis of revolution is a curve made up of a connected series of parabolic sections whose axis are angularly displaced with respect to each other.

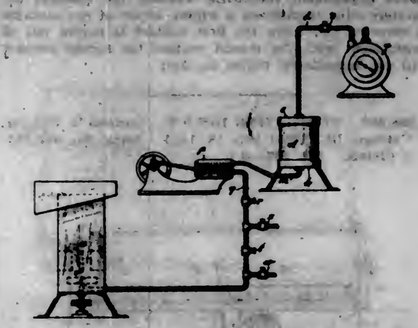
1,398,988. TUNE-SELECTOR FOR AUTOMATIC PIANOS. Russell I. Wilcox, Chicago, Ill., assignor to The Marquette Piano Company, Chicago, Ill., a Corporation of Michigan. Filed July 31, 1918. Serial No. 247,520. 24 Claims. (Cl. 84—122.)



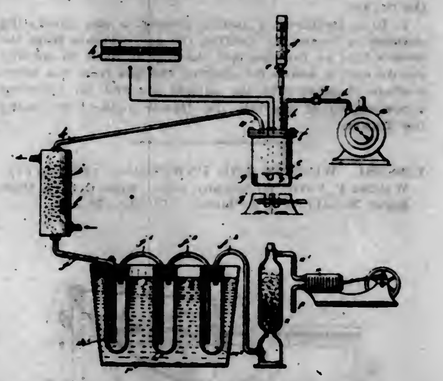
1. In an automatic piano, the combination with a perforated music sheet having a plurality of separate selections, of winding drums for winding said sheet in either of two opposite directions, means for operating said drums to wind said sheet forwardly or backwardly, and selective controlling means for said operating means comprising relatively movable coöperative members, one of said members being set by hand to determine the selection to be played, and the other member being operatively connected with said music sheet for continuous rotation to move said second member into operative relation with said first member to permit the desired selection to be played.

1,398,989. ORE CONCENTRATION. Elfoft Wray Wilkinson, San Francisco, Calif., assignor to Minerals Separation North American Corporation, New York, N. Y., a Corporation of Maryland. Filed Dec. 31, 1918. Serial No. 269,107. 18 Claims. (Cl. 23—85.)

1. The process of concentrating ores which consists in subjecting an organic substance to partial decomposition in the presence of free oxygen and flowing the mixed volatilized products of such operation into and mixing them with an ore pulp and also mixing a gas with the ore pulp so as to produce mineral-bearing froth, and separating the froth.



1,398,990. ORE CONCENTRATION. Elfoft Wray Wilkinson, San Francisco, Calif., assignor to Minerals Separation North American Corporation, New York, N. Y., a Corporation of Maryland. Filed Dec. 31, 1918. Serial No. 269,108. 12 Claims. (Cl. 23—85.)

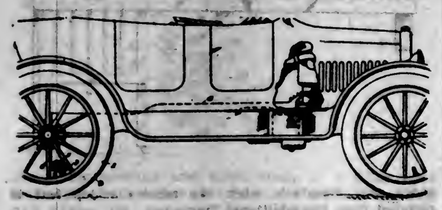


1. The process of concentrating ores which consists in mixing with an ore pulp a mineral frothing agent obtained by subjecting a frothing agent to partial decomposition in the presence of oxygen with the production of substantial amounts of easily condensable material other than water and also bringing gaseous bubbles into contact with the solid particles in the ore pulp so as to produce mineral-bearing froth, and separating the froth.

1,398,991. FIRE-RESISTING ASPHALT OR LIKE HYDROCARBONACEOUS MATERIAL. James Howard Young, Pittsburgh, Pa., assignor to H. H. Robertson Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 16, 1920. Serial No. 347,884. 8 Claims. (Cl. 23—5.)

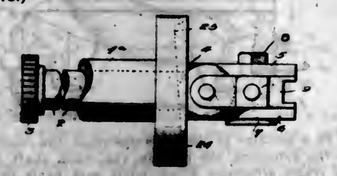
1. A new composition of matter consisting of bituminous material having incorporated therewith chloro-naphthalene products.

1,398,992. TIRE-DEFLATION INDICATOR. Clarence W. Zimmerman, Venango, Nebr., assignor of one-half to James M. Fulton, Holyoke, Colo. Filed Mar. 9, 1920. Serial No. 364,473. 1 Claim. (Cl. 180—82.)



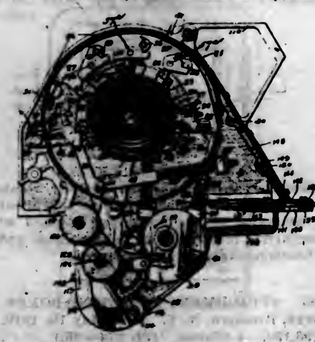
The combination with the ignition system of a pneumatic tired motor vehicle, of a brake drum carrying an insulated ring, a brush bearing on said insulated ring and connected with the primary wire of the ignition system, a pressure gage carried by each tire and having a contact connected with the said ring, a pointer embodied in said pressure gage for traversing said contact and grounded on the vehicle whereby traversing of said contact by such pointer interrupts the operation of the ignition system.

1,398,993. EDGE SETTER AND BURNISHER. Otis R. Angell, Haverhill, Mass., assignor to Hamel Shoe Machinery Company, a Corporation of Massachusetts. Filed Nov. 12, 1917. Serial No. 201,521. 38 Claims. (Cl. 12—78.)



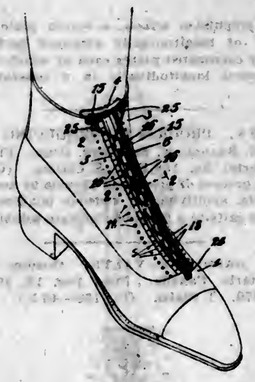
1. In an edge setting machine, in combination, an actuating shaft, a tool holding head, pivotal means supporting said head constructed and arranged to constrain said head to move normally in a plane passing through the axis of the shaft, and means actuated by said shaft for imparting to said tool holder a simple oscillatory movement about said pivotal support.

1,398,994. DELIVERY MECHANISM FOR VENDING-MACHINES. George H. Armitage, Woonsocket, R. I., assignor to Kelley Ticket Machine Company, New York, N. Y., a Corporation of New York. Filed July 26, 1918. Serial No. 781,304. 77 Claims. (Cl. 211—33.)



1. A vending apparatus having, in combination, means for delivering articles therefrom; means by which the delivery means may be set in action; a motor; a single revolution clutch; means connecting the motor with the single revolution clutch for actuating the latter; and connecting means between the single revolution clutch and the delivery means whereby to reset the latter for a successive operation.

1,398,995. LACING-CLOSURE. Arthur Balthasar, Montclair, N. J. Filed Aug. 13, 1921. Serial No. 491,920. 16 Claims. (Cl. 24—140.)



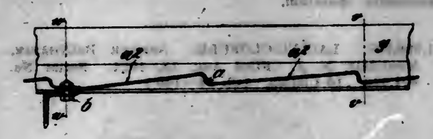
1. A slidable closure comprising channel strips on opposite sides of the opening, sliding lugs in both channels and tension means connecting opposite lugs; each said strip comprising a longitudinally flexible, edgewise inflexible body strip forming a flat channel member and a multiplicity of coöperating, alined, channel forming members secured to said strip.

1,398,996. COMBINATION-TOOL. Jose Martinez Barbera, New York, N. Y. Filed May 17, 1920. Serial No. 381,928. 2 Claims. (Cl. 81—119.)



1. A device of the class described comprising a handle shank, a cross-head carried by said shank, said cross-head having a series of recesses cut partway down therethrough adjacent to each of the sides and intermediate the ends thereof, a longitudinally disposed partition joining the end portions of said head and disposed midway between the sides of said head for forming the side walls of said recesses, and a transversely disposed reinforcing partition arranged on each side of said longitudinally disposed partition and disposed midway between the ends of said cross-head for forming the inner walls of said recesses.

1,398,997. PROPULSION-SCREEN. Rosmus Symonds Bawden, Middleton St. George, England. Filed Sept. 20, 1916. Serial No. 251,078. 4 Claims. (Cl. 85—36.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

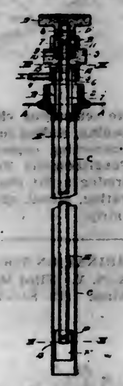


1. In a propulsion screen, a screen plate comprising a plurality of longitudinally arranged perforated and transversely corrugated plates each of which is independently cambered longitudinally in a constant state of flexure.

1,398,998. PROCESS OF PRODUCING PHENOLS. George B. Bradshaw, Stamford, Conn. Filed Oct. 23, 1917. Serial No. 198,167. 8 Claims. (Cl. 23—24.)

1. In the process of producing phenols by means of their calcium salts, acidifying an aqueous mixture containing said calcium salts to a point of complete solubility thereof.

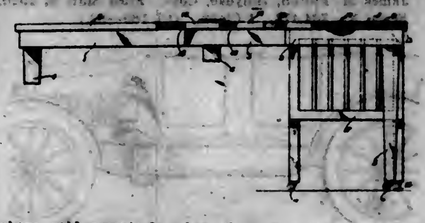
1,398,999. GASOLENE-VALVE. Gordon C. Bredin, Galt, Ontario, Canada. Filed Dec. 13, 1920. Serial No. 430,570. 1 Claim. (Cl. 158—46.5.)



In a device of the class described, the combination with a fuel tank, of a tube extending into the depth of the tank and communicating above the tank with a fuel feed pipe, said tube having an opening at its lower end for reception of fuel and having a port at a distance above the opening, a resilient radially expandible split ring formed of a portion of tubing having a longitudinal section removed, rotatable within said tube, adapted to seal said port therein and to open it by rotation of the ring to a point where the split therein registers with said port, and means for rotating said ring from without the tank.

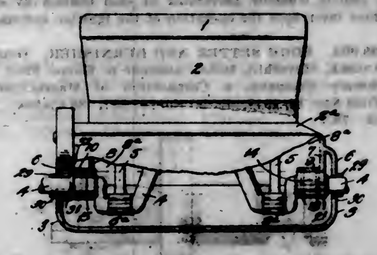
1,399,000. EFFICIENCY-TABLE. William F. Brennan, Collinsville, Ill. Filed Apr. 15, 1921. Serial No. 461,733. 3 Claims. (Cl. 45—8.)

1. An extension table for household use, comprising a supporting frame, a top leaf rigid on the supporting frame, an additional frame connected with the supporting frame and movable toward and away from the supporting frame, a top leaf removably supported by the additional frame in alinement with the top leaf on the supporting frame, a receptacle within the additional frame below the plane of said removable top leaf, and a guard adapted to be positioned at the side edge of the rigid top leaf



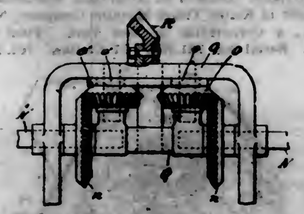
above said receptacle when the removable top leaf is removed from the additional frame.

1,399,001. INTERNAL-COMBUSTION ENGINE. Harry Lowe Brownback, Norristown, Pa., assignor to The Premier Motor Corporation of America, Philadelphia, Pa., a Corporation of Delaware. Filed Jan. 22, 1921. Serial No. 439,231. 5 Claims. (Cl. 64—10.)



1. In a machine of the class described, the combination with the cylinders, the pistons, the crank shaft and the main frame structure which holds said parts in proper relations, of two bearings for the shaft and a supplemental frame or carrier for said bearings.

1,399,002. DIFFERENTIAL GEAR. Edwin de Haven Caldwell, Dunkirk, N. Y. Original application filed July 14, 1917, Serial No. 180,528. Divided and this application filed May 20, 1918. Serial No. 235,434. 1 Claim. (Cl. 74—99.)



A differential gearing having relatively rotatable coaxial gears, a frame rotatable about the axis of said gears, pinions, journaled on the frame and engaged with said gears, eccentrics rotatable with said pinions, and a link having bearings engaging said eccentrics.

1,399,003. ATTACHMENT FOR SOUND-BOXES. Frank L. Capps, Brooklyn, N. Y. Filed May 10, 1919. Serial No. 296,134. 4 Claims. (Cl. 274—35.)

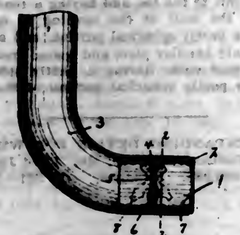
1. The combination of a sound-box having an offset extension, and the diaphragm thereof provided at its

center with a member affording a lever-connection such as an overhang, a block carrying two lugs and provided with a groove adapted to fit snugly upon said extension,



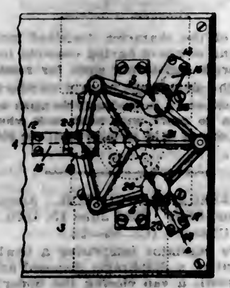
means for securing said block firmly in position upon said extension, a stylus-lever fulcrumed between said lugs and having its inner end disengageably engaging said lever-connection.

1,399,004. AUTOMATIC AIR-VALVE. Edward R. Case, Oneida, N. Y. Filed Aug. 19, 1919. Serial No. 318,567. 2 Claims. (Cl. 251—126.)



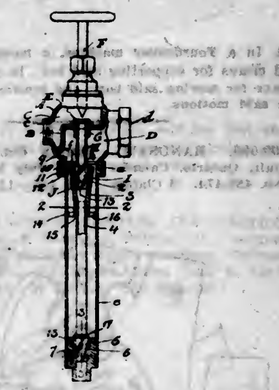
1. In an air-regulating device for carbureters, a tubular member of substantially circular cross section, and unobstructed throughout its length, a circular floating disk valve substantially filling the tube, and extending transversely of the same, means for supporting the valve for free swinging movement in both directions from closed position about a substantially horisontal axis off-set from the horisontal diameter of the valve so that the surface area of the valve below said axis is greater than the surface area of the valve above said axis, said valve being actuated solely by gravity, and the suction produced in the carbureter.

1,399,005. SPARK-GAP. George B. Crouse, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed June 14, 1918. Serial No. 239,913. 8 Claims. (Cl. 250—38.)



1. A spark gap for radio transmission, comprising a vibratory electrode substantially entirely of magnetic material, electromagnetic means for vibrating said electrode and a plurality of insulated electrodes normally bridged by said vibratory electrode.

1,399,006. ATOMIZING OIL-BURNER. Terence Joseph Cunnett, Toronto, Ontario, Canada. Filed Nov. 20, 1920. Serial No. 425,477. 4 Claims. (Cl. 158—75.)

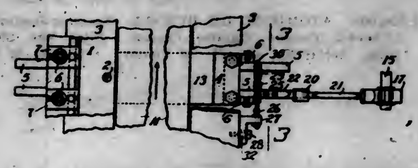


2. An oil-burner comprising a head having a dividing wall separating the same into oil and steam compartments, each having an inlet, and the steam compartment being further provided with an outlet; a conduit mounted in said dividing wall and communicating with said oil compartment; a tubular member having a flared inner end, through which oil and steam passes; a tubular casing adapted to be coupled to the outlet of said steam compartment and to incase said tubular member, the external diameter of said flared end being less than the internal diameter of the bore of said tubular casing to provide a passageway for steam between these parts; a mixer-head associated with the outer end of said conduit and adapted to set within said flared inner end of said tubular member and exteriorly provided with a plurality of spiral ribs which provide spiral passageways between said mixer-head and said flared inner end, which passageways communicate with said steam compartment; a tip associated with the outer end of said tubular member and adapted to communicate with the oil-line; a mixer-head associated with the outer end of said tubular member and to be located within said tip, and a plurality of exterior spiral ribs carried by said second-mentioned mixer-head which form spiral passageways between said second-mentioned mixer-head and said tip, which passageways communicate with said tubular casing.

1,399,007. ANTISEPTIC-SOLUTION. Alleston S. Cushman, Washington, D. C. Filed June 13, 1917. Serial No. 174,573. 1 Claim. (Cl. 167—3.)

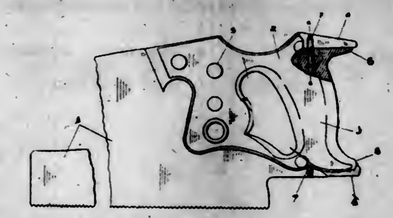
A composition of matter comprising the product of reaction of sulfur dioxid upon formaldehyde in the presence of water, said product being a liquid having sufficient stability to permit transportation and a specific gravity approximating 1.4.

1,399,008. FOURDRINIER MACHINE. ALBERT JOHN DAVIES, Kenogami, Canada. Filed June 24, 1919. Serial No. 306,248. 3 Claims. (Cl. 92—51.)



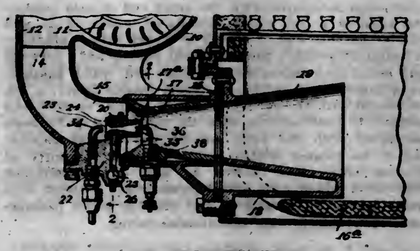
1. In a Fourdrinier machine, a movable suction-box; and means for supporting said box; in combination with means for moving said box; and tensile means for guiding said motions.

1,399,009. HANDSAW. JEROME COLWELL DIETRICH, Galt, Ontario, Canada. Filed July 29, 1921. Serial No. 488,474. 3 Claims. (Cl. 145—113.)



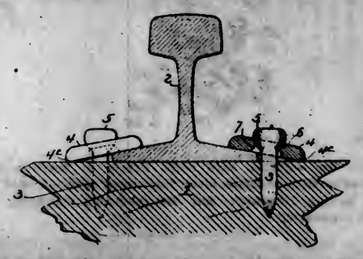
1. In a hand saw, the combination of a blade provided with two rearwardly extending tangs; a handle having its upper and lower edges grooved to receive said tangs; and a reinforcing rod extending through the handle in the same plane as the blade and having notches formed in its ends through which the tangs extend.

1,399,010. MEANS FOR ATOMIZING AND IGNITING LIQUID FUEL. ARNER DOBLE, Detroit, Mich. Filed Feb. 28, 1918. Serial No. 219,671. 3 Claims. (Cl. 158—31.)



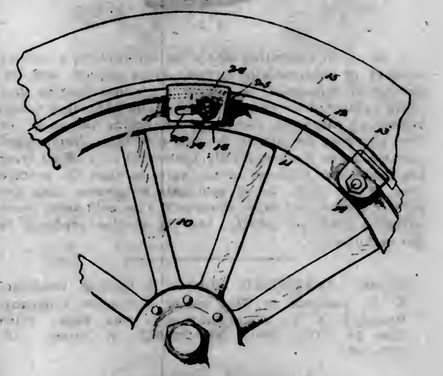
1. The combination of a main Venturi tube, an auxiliary venturi including a fuel nozzle, in said main venturi, a supplemental nozzle arranged to project a jet of high pressure air in said auxiliary venturi, an ignition device for igniting the spray formed by said supplemental nozzle, means for supplying air under pressure to said supplemental nozzle, and an air blower for supplying air to said main venturi to atomize the fuel in said auxiliary venturi.

1,399,011. RAIL-FASTENING MEANS. BYRAM I. DOWNS, Pittsburgh, Pa., assignor to Flannery Bolt Company, Pittsburgh, Pa. Filed Apr. 8, 1920. Serial No. 372,152. 3 Claims. (Cl. 238—338.)



3. In rail fastening means, the combination with a railway rail and a tie, of an annular plate bridging from a flange of the rail to the tie, and having a rounded peripheral portion, the wall of the opening in said annular plate having a partly spherical portion, and a spike passing through said annular plate and spaced from the flange of the rail, said spike having a partly spherical head seated on the partly spherical portion of the plate.

1,399,012. EXPANDING DEVICE FOR WHEEL-RIMS. JAMES F. ENGLAND, Lebanon, Mo. Filed July 30, 1920. Serial No. 399,988. 5 Claims. (Cl. 301—20.)

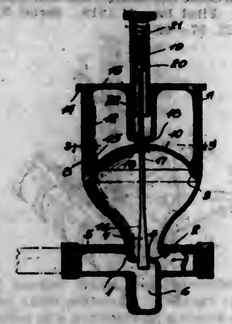


1. A device of the character described including companion expanding members having coacting inclined faces and provided with registering slots for receiving a bolt therethrough, the slot of one of said members being provided with a rack, and a nut adjustable upon said bolt and having a pinion to coact with said rack whereby as the nut is rotated, one of said members will be elevated upon the other.

1,399,013. PRESSURE-REGULATOR. AUSTIN E. FLESNER, Columbus, Ohio. Filed June 15, 1920. Serial No. 389,221. 2 Claims. (Cl. 50—23.)

2. A pressure regulator comprising a bowl having an inlet and an outlet, a diaphragm disposed across the interior of the bowl, a cap closing the upper end of the bowl, a valve consisting of a rod extending through and secured to said diaphragm and having its lower end playing through the outlet of the pressure chamber and its

upper end provided with an abutment, an adjusting sleeve fitted in the cap around the upper end of the valve and the

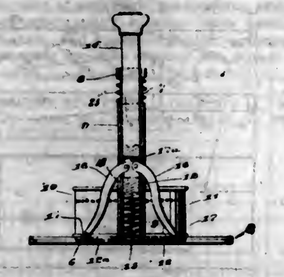


abutment thereon, and a tension spring disposed within the adjusting sleeve between said abutment and the upper end of the sleeve.

1,399,014. DYESTUFF AND MODE OF PRODUCING IT. EADY HART, Ballarat East, Victoria, Australia, assignor of one-half to Isabella Jessie Stewart, Ballarat West, Victoria, Australia. Filed Feb. 16, 1920. Serial No. 359,105. 7 Claims. (Cl. 8—6.)

2. Improved dye-stuff consisting of the product obtained by immersing a chromogenic vegetable substance divided into small parts in a solution containing sodium carbonate and lime, boiling the mixture and filtering the resultant liquor.

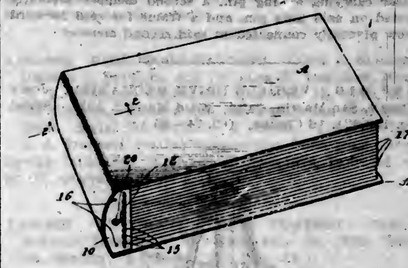
1,399,015. EGG-POACHING APPARATUS. FREDERICK E. HUMMEL and JOHN J. NOETH, Chicago, Ill. Filed Dec. 10, 1920. Serial No. 429,747. 5 Claims. (Cl. 53—1.)



3. An egg-poaching apparatus comprising an egg cup composed of a side wall, and a bottom separate from said side wall and composed of a pair of plates which are slidable transversely beneath the side wall to come together at their opposite edges, and also to spread, said edges having notches which match to form drain openings, a support for said plates, and a slidable support for the side wall carried by said support for permitting said wall to be elevated relative to the plates.

1,399,016. LOOSE-LEAF BINDER. OAKEY E. JONES, Los Angeles, Calif. Filed Dec. 29, 1920. Serial No. 433,842. 6 Claims. (Cl. 129—38.)

1. A loose leaf binder comprising covers and a back to which the same are secured, plates mounted upon opposite ends of said back, each having an elongated slot therein and a key slot offset therefrom, rods extending between said plates and through said elongated slots and having



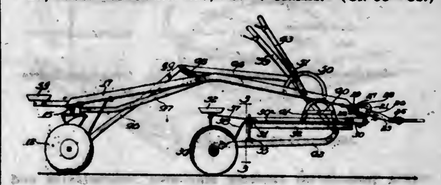
heads adapted to be inserted through said key slot and retained in said elongated slots, means for closing said key slot, and leaves mounted upon said rods.

1,399,017. COMBINATION LIGHTING AND IGNITION SWITCH. WILLIAM KAISLING, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed June 6, 1917. Serial No. 173,084. 29 Claims. (Cl. 200—45.)



1. A switch device including a light switch and an ignition switch, a mounting plate provided with a pair of firmly secured studs, a movable contact maker for said light switch supported by one of said studs, a movable contact member for said ignition switch supported by the other of said studs, a slidable lock plate for locking said switches, slots for said lock plate through which said studs project, collars adapted to fit over said studs into the slots of said lock plate, said collars forming guides for said plate and bearings for said rotatable contact makers, and a cover cap for preventing displacement of said contact makers.

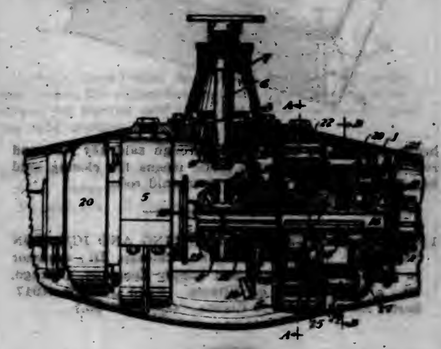
1,399,018. DISK HARROW. LEE H. KAUPER, Rock Island, Ill., assignor to Rock Island Plow Company, Rock Island, Ill., a Corporation of Illinois. Filed July 29, 1918. Serial No. 247,119. 7 Claims. (Cl. 55—83.)



1. In an implement of the class described, a rear harrow and a front harrow arranged in tandem relationship, each of said harrows consisting of two sets of disk gangs, a frame for said rear harrow extending forwardly and over

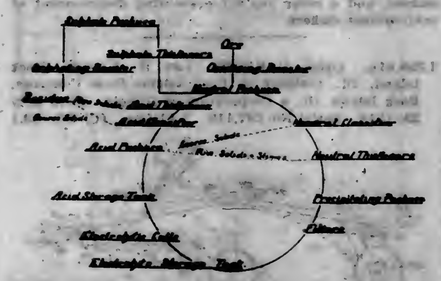
said front harrow, a member attached to the front end of said frame, a pair of draft links carried by said member extending forwardly thereof, and a bearing socket in said member carrying a king pin, a second member pivotally mounted on said king pin, and a frame for said forward harrow pivotally connected to said second member.

1,399,019. VEHICLE DRIVE MECHANISM. JOHN KNOHN, San Martin, Calif. Filed Mar. 22, 1917. Serial No. 156,621. 6 Claims. (Cl. 74—35.)



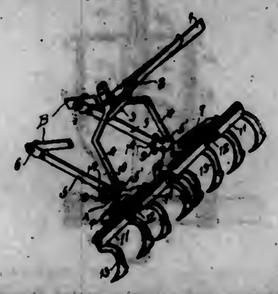
1. A drive mechanism of the class described, comprising intermeshing internal and external gears, means for imparting an eccentric motion to one of said gears whereby it is caused to roll on the remaining gear, a driven member, connections between said driven member and the gear which is given the eccentric motion, said connections comprising a plurality of links which are pivoted to said gear, and a plurality of links which are pivoted to said driven member, and a plate pivotally connecting the opposite ends of all the links.

1,399,020. PROCESS FOR THE EXTRACTION OF ZINC. FREDERICK ERIC LEE, ARTHUR LIONEL MCCALLUM, and SELWYN GWILLYM BLAYLOCK, Trail, British Columbia, Canada, assignors to The Consolidated Mining & Smelting Company of Canada, Limited, Montreal, Quebec, Canada, a Corporation of Canada. Filed Apr. 30, 1920, Serial No. 377,935. Renewed July 22, 1921. Serial No. 486,803. 7 Claims. (Cl. 75—18.)



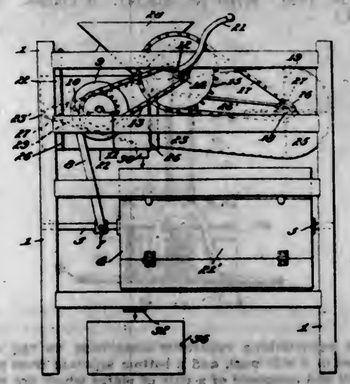
1. A process for treating zinc ores, concentrates and residues, which consists of oxidising the zinc values, extracting the soluble zinc, and then heating the residue containing zinc values in insoluble combinations in a sulfating atmosphere to convert the zinc values into soluble zinc compounds.

1,399,021. CULTIVATOR. CHARLES S. MCGAHEY, Jr., Sandusky, Ohio, assignor, by mesne assignments, to The Moto Motor Macultivator Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 9, 1919. Serial No. 343,089. 3 Claims. (Cl. 97—42.)



3. In a cultivator, the combination with a frame and drag bar, of a transverse supporting bracket carried by the drag bar and mounted to be swung about a horizontal axis into different angular positions, said supporting bracket having two spaced points of connection, a pair of substantially horizontally disposed tool holding bars pivotally connected to each other at their adjacent ends, and pivot bolts at the two points of connection of the transverse bracket, said pivot bolts having both a pivotal and sliding connection with the respective tool supporting members whereby the latter can be secured in position at different angles to themselves and to the supporting bracket.

1,399,022. GRADING OR SEPARATING MACHINE. SYLVESTER MARSHALL, Athens, Ohio. Filed Mar. 9, 1921. Serial No. 451,067. 5 Claims. (Cl. 130—15.)



2. The combination with a suitable support, of a laterally rocking longitudinally inclined screen suspended at its ends therein and having plates along its side edges to prevent material from falling through at such points; the mesh of the screen being larger than the greatest transverse diameter of the grains to be graded or separated, and means for rocking the screen.

1,399,023. BUILDING BLOCK OR SLAB. RICHARD MURRAY, New York, N. Y. Filed Mar. 10, 1920. Serial No. 364,777. 2 Claims. (Cl. 72—99.)

1. A block or slab of cementitious material, comprising a rectangular frame embedded in said block or slab, for

reinforcing the same, said frame being made of a piece of heavy wire, bent to form a hook-shaped member which projects beyond one side face of the block or slab, the said



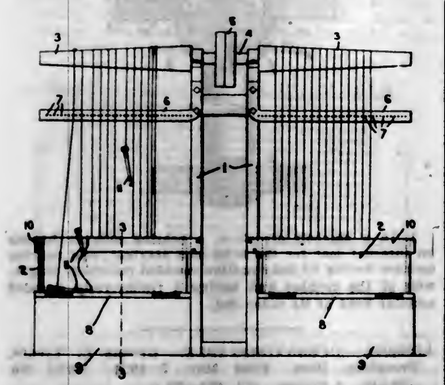
hook-shaped member being bent outwardly, downwardly, inwardly and again outwardly to engage the upper, inner and under sides of a horizontally disposed support, whereby said block or slab is held and locked to said support.

1,399,024. METHOD OF CHANNELING SHOE-SOLES. GEORGE M. PETTENGILL, Haverhill, Mass., assignor to Hamel Shoe Machinery Company, a Corporation of Massachusetts. Filed Apr. 8, 1919. Serial No. 288,666. 9 Claims. (Cl. 12—146.)



1. The method of operating a tool in a channel about an angle which consists in imparting to the tool a partial turning movement in such manner as to change the angle of presentation of its cutting edge to the work while operating upon one side of said angle, maintaining said angle of presentation substantially constant while passing the apex of such angle, and completing such turning movement while operating upon the opposite side of said angle.

1,399,025. BOBBIN-STRIPPER. CLARENCE A. PIERCE, Lowell, Mass. Filed May 16, 1921. Serial No. 470,183. 2 Claims. (Cl. 19—15.)



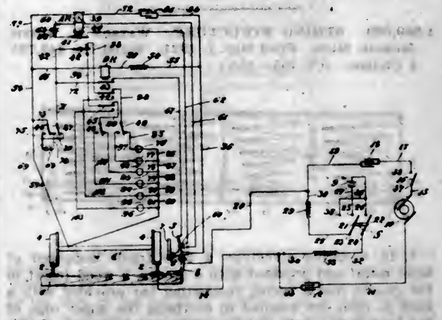
1. In a bobbin stripping machine, the combination with a receptacle to contain bobbins to be stripped, of a rota-

table spindle above the receptacle and adapted to have the yarn ends from the bobbins wound thereon, and a device interposed between the spindle and receptacle to prevent any bobbins which may be lifted from the receptacle from being wound on the spindle.

1,399,026. FIREPROOF VARNISH. CECIL L. DAUMONT, GEORGE C. STANLEY, and CHARLES W. BENNETT, Ithaca, N. Y. Original application filed Oct. 18, 1919, Serial No. 330,384. Divided and this application filed Nov. 3, 1920. Serial No. 421,525. 3 Claims. (Cl. 23—5.)

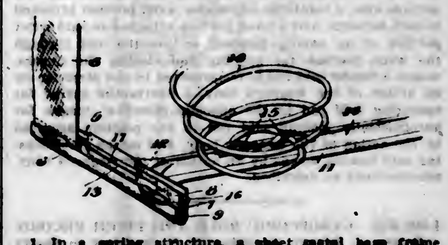
1. A fireproof coating composition comprising varnish having intimately incorporated therein a hydrated oxid of tin, substantially as described.

1,399,027. AUTOMATIC TRAIN CONTROL. PAUL J. SIMMEN, Buffalo, N. Y. Filed Mar. 26, 1920. Serial No. 369,131. 5 Claims. (Cl. 246—71.)



4. In an automatic train control, in combination: a roadway; a source of electric current of one characteristic on the roadway; a source of electric current of another characteristic on the roadway and having at least two variations of that characteristic; an electrical device on the car; a second electrical device on the car including an armature differently operated by the said variations; means for energizing the first mentioned electrical device by current of one characteristic; means for energizing the second mentioned electrical device by the variations of the current of the other characteristic and means controlled jointly by the first mentioned electrical device and the armature of the second mentioned electrical device for train control.

1,399,028. SPRING STRUCTURE. WATSON R. SMITH, Jackson, Mich. Filed Feb. 16, 1921. Serial No. 445,518. 7 Claims. (Cl. 155—180.)



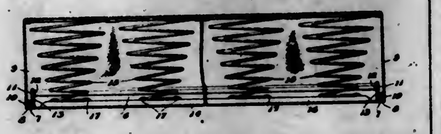
1. In a spring structure, a sheet metal base frame strip provided with an external groove, and a spring supporting bar provided with a hook at each end adapted to detachably overhang the upper edge of the base frame strip, each hook being provided with a bump adapted to spring into said external groove.

1,399,029. SPRING STRUCTURE. WATSON R. SMITH, Jackson, Mich. Filed Feb. 23, 1921. Serial No. 447,180. 8 Claims. (Cl. 155—180.)



1. In a spring structure, a base frame strip provided at its lower edge with an external upwardly opening groove and having a longitudinal rib in its outer face intermediate its edges overhanging said external upwardly opening groove, and a spring supporting member provided with a hook adapted to be snapped into engagement with the rib on the base frame strip.

1,399,030. SPRING STRUCTURE. WATSON R. SMITH, Jackson, Mich. Filed Mar. 1, 1921. Serial No. 448,791. 4 Claims. (Cl. 155—180.)



3. In a spring structure, a base frame composed of sheet metal and provided with a groove, a wood insert in the groove, and a spring supporting bar provided with a hook at each end adapted to overhang the upper edge of the base frame strip, the base frame strip and the hooks of said bar being provided with interlocking connections whereby to effect a snapping connection between the same and permit of detachable relation.

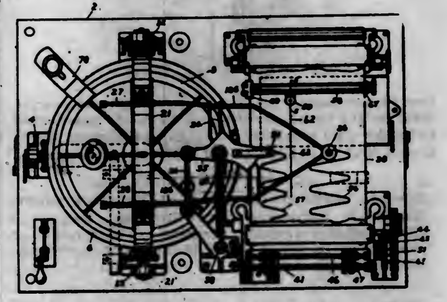
1,399,031. ARTIFICIAL ARM. WILLIAM SOUREK, Elmer, Minn., and JOSEPH KOPFHAMER, Casenovia, Wis. Filed May 31, 1921. Serial No. 474,045. 2 Claims. (Cl. 3—12.)



1. The combination with an artificial arm comprising a forearm having means for attaching same to a stump of a natural arm, a rotatable adjustable wrist portion attached to said forearm, and a hand portion attached to said wrist portion, of an axially disposed reciprocable rod through the wrist portion for opening and closing the fingers, means whereby said rod is reciprocated in one direction by an action of the wearer's body, a contractile spring for operating said rod in the opposite direction, means for automatically locking said rod in the position acquired by the action of the wearer's body, and means for releasing said locking means by an action of the wearer's body, substantially as described.

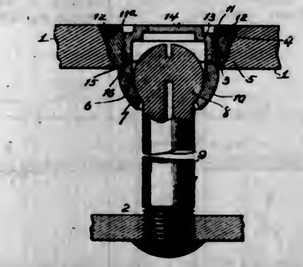
1,399,032. GYROSCOPIC ROLL AND PITCH RECORD. ELMER A. SPERRY, Brooklyn, N. Y., assignor to Sperry Gyroscope Company, a Corporation of New York. Filed Nov. 24, 1916. Serial No. 133,230. 4 Claims. (Cl. 234—26.)

1. In a motion recorder for oscillating bodies, a gyroscope, means including a gimbal ring for mounting the same for oscillation about two horizontal axes and for spinning about a third axis, a loop pivotally mounted adjacent said gyroscope on an axis substantially in line with one of said horizontal axes, a slidable connection between said gyroscope and loop permitting free oscillation of the former about the other horizontal axis without turning said loop, a traveling chart, means connected to said gimbal ring to be moved by apparent oscillation of the gyroscope about said last named axis for producing a record on said chart, and a second means connected to said loop to be moved by apparent oscillation of the gyroscope about the axis of the loop, for producing a second record on said chart.



4. Means for recording the motions of an oscillating body comprising a gyroscope, means for mounting the same for oscillation about two horizontal axes, a traveling surface mounted adjacent thereto, a marker mounted for movement across said surface, an inclined guideway connected to said marker, means for mounting the same for movement at an angle to the direction or travel of said surface, a member engaging said guideway and secured to said gyroscope so that when it is moved about an axis of said gyroscope in the direction of travel of said surface, said marker will be moved across said surface.

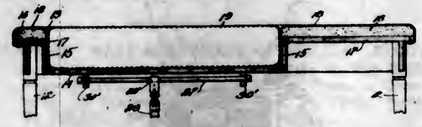
1,399,033. STAYBOLT STRUCTURE. BENJAMIN E. D. STAFFORD and ETHAN I. DODDS, Pittsburgh, Pa., assignors to Flannery Bolt Company, Pittsburgh, Pa. Filed Sept. 12, 1919. Serial No. 323,361. 5 Claims. (Cl. 85—1.5.)



1. In a staybolt structure, a bearing member having an internal seat for the head of a staybolt, said bearing member having its body portion rounded exteriorly lengthwise of the member and having a transversely rounded annular head at its outer end.

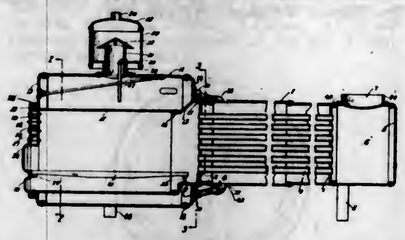
1,399,034. OPERATING-TABLE. GEORGE C. TAPLIN, Brookline, Mass. Filed Mar. 7, 1921. Serial No. 450,340. 8 Claims. (Cl. 128—72.)

1. An operating table having an opening in its top, a rigid supporting bottom below the opening; a rigid confining curb between the bottom and the opening, and a pneumatic mattress having a bottom wall bearing separably on the said bottom, a marginal wall bearing separably on the curb, and a top wall yieldingly supported



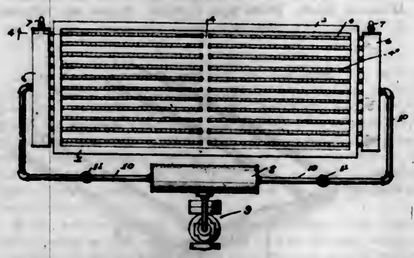
in the opening by the charge of air in the mattress, the separability of the said marginal wall from the curb permitting uniformly free downward, upward, and edgewise movements of all portions of said top wall.

1,399,035. SECTIONAL BOILER. HARRY G. THAYER and SAMUEL T. MCLELLAN, Charleston, W. Va., assignors of one-third to Lewis D. Truslow, Charleston, W. Va. Filed July 17, 1920. Serial No. 396,980. 5 Claims. (Cl. 122—136.)



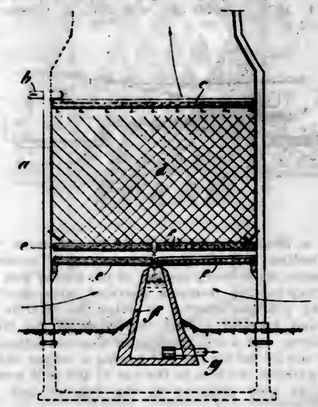
1. In a steam boiler, the combination with a cylindrical barrel; of a furnace comprising a cylindrical shell, an off-center cylindrical fire box therein, a crescent plate connecting the front ends of said shell and box, an annular plate secured to the rear end of the shell, and a plate connected at one end to the box and having its body deflected and its other end flanged and connected with said annular plate; means for connecting the barrel to the furnace with its end engaged with said flange, and a front plate closing the other end of the fire box and having doors.

1,399,036. APPARATUS FOR PREVENTING SPONTANEOUS COMBUSTION IN COAL PILES. JOHN A. THOMAS, Columbus, Ohio. Filed Oct. 12, 1918. Serial No. 257,913. 6 Claims. (Cl. 98—26.)



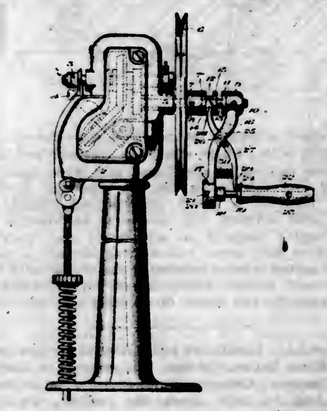
3. An apparatus for storing coal, comprising a receptacle including a base and substantially perpendicular side walls, the upper surface of said base being provided with grooves, pipe members disposed to occupy said grooves, said pipe members being formed with rows of outwardly opening apertures, means for supplying air under pressure to said pipe members, and the upper surface of said base being longitudinally and transversely inclined to provide a discharging medium for accumulated water within said receptacle.

1,399,037. COOLING-TOWER. FRITZ UHDE, Breslau, Germany. Filed Oct. 19, 1915. Serial No. 56,731. 2 Claims. (Cl. 261—108.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a cooling tower, the combination of a trickling chamber and collecting troughs arranged substantially horizontally at the lower end thereof, an air-inlet chamber at the base of the trickling chamber, under said troughs, and a collecting receptacle projecting above the ground level to a point closely adjacent the troughs to thereby produce, without impeding the air-supply, a head of water in the collecting receptacle of approximately the height of the air-inlet chamber, to thereby assist the operation of the circulating pump.

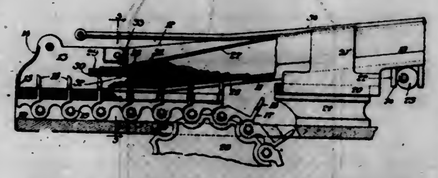
1,399,038. DRIVE MECHANISM. FÉLIX EMILE VALOIS, Haverhill, Mass., assignor to Hamel Shoe Machinery Company, a Corporation of Massachusetts. Filed Dec. 17, 1918. Serial No. 267,111. 10 Claims. (Cl. 74—33.)



1. In a device of the class described, in combination, a part to be driven, a freely rotatable crank arm for driving

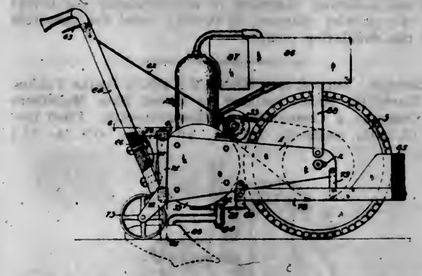
the same and provided with a clutch element, a complemental clutch element slidably keyed to the part to be driven by said crank arm, a crank pin carried by said arm and slidable thereon, and means for transmitting sliding movement of said crank pin to said slidable clutch element for actuating the latter.

1,399,039. BOX-FILLING MACHINE. JACOB P. WRIGHT, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 4, 1921. Serial No. 458,255. 5 Claims. (Cl. 226—12.)



1. In a box-filling machine, the combination with a splint feeding hopper, of a tray-conveyer mounted to travel under the delivery portion of the hopper and having spaced tray-holding members provided with up-standing measuring portions adapted to enter the interior of the hopper and transfer splints therefrom to the trays on the conveyer, and a cut-off member mounted adjacent the delivery end of the hopper and having a tongue extending in close parallel relation to the top of the said measuring portions as they progress to the delivery end of the hopper.

1,399,040. SELF-PROPELLED AGRICULTURAL IMPLEMENT. HENRY C. BAINES, Cleveland, Ohio, assignor to The Baines Engineering Company, Canal Dover, Ohio, a Corporation of Ohio. Filed May 21, 1920. Serial No. 383,069. 9 Claims. (Cl. 180—19.)



1. In a self propelled vehicle of the class described, the combination with a frame, of a single tractor wheel mounted adjacent one end of said frame, said wheel being composed of two interfitting traction members yieldingly clamped together, a power transmitting element frictionally held between said members, an internal combustion engine mounted on said frame and operatively connected to said power transmitting element, a pair of laterally spaced wheels supporting the end of said frame opposite said tractor wheel, means for adjusting said wheels laterally, and means for steering said vehicle.

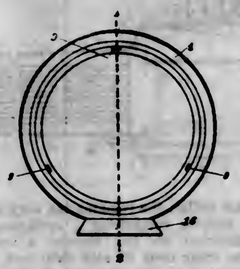
1,399,041. DEMOUNTABLE-RIM CONSTRUCTION. EARL KING BAKER, Chicago, Ill., assignor to Universal Rim Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 14, 1916. Serial No. 114,799. 10 Claims. (Cl. 301—19.)

1. A demountable rim construction comprising a fixed rim having a conical, circumferential rim seat on its periphery, in combination with an integrally flanged demountable tire carrying rim having a complementary rim seat, said demountable rim having a plurality of integral



projections on its inner periphery near its outer edge, said projections presenting oblique outer shoulders, pressure lugs complementing respective projections, and screw means for actuating said lugs.

1,399,042. LAMP GLOBE OR SHADE. ROSCOE H. BERMAN, Albany, N. Y. Filed July 22, 1919. Serial No. 312,604. 2 Claims. (Cl. 240—100.)



1. A lamp globe comprising two ring shaped parts, each formed of sheet metal, one edge of each being permanently secured to an edge of the other, and the outer edge of each being bent toward the center, then inward, and then again toward the center to provide a lens seat the casing having an opening at one side arranged symmetrically with reference to the lens seat, and means for securing a lens to the outer face of the seat.

1,399,043. VEHICLE ROAD-TRACK. JOEL R. BELKNAP, Midland, Mich. Filed Apr. 4, 1919. Serial No. 287,404. 3 Claims. (Cl. 238—4.)



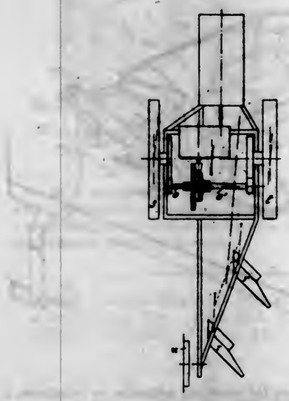
2. In a vehicle track, a track member transversely concave at its middle portion and having downwardly

arched and diverging lateral lip portions adapted to be embedded in the material of a roadway, the outer lip portion being of greater depth than the inner lip portion for bracing said track member against transverse displacement under lateral stress.

1,399,044. HEAT TREATMENT OF METALS. ARTHUR E. BELLIS, Springfield, Mass., assignor to The Bellis Heat Treating Company, New Haven, Conn., a Corporation of Connecticut. Filed Nov. 26, 1920. Serial No. 426,620. 3 Claims. (Cl. 148—15.)

1. In the art of heat treating metals to be forged, stamped, rolled or otherwise mechanically operated upon while in the hot state, first heating the metal piece to the requisite temperature by immersion in a bath of metal salt components in the form of a single liquid, then withdrawing the metal piece from the bath with a film of the bath material thereon and subjecting the piece without removing the bath film therefrom to the mechanical shaping operation.

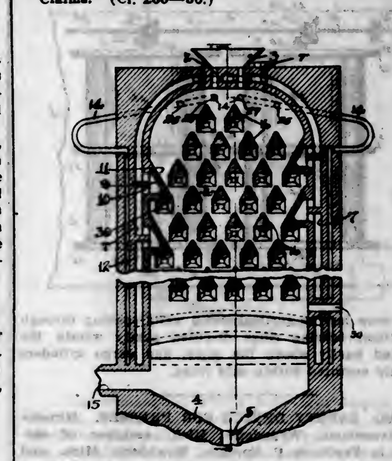
1,399,045. AGRICULTURAL MACHINE. RUDOLF BERNSTEIN, Halle-on-the-Saale, Germany. Filed Dec. 14, 1916. Serial No. 137,052. 3 Claims. (Cl. 97—30.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In an automobile agricultural machine, the combination with a soil working device of two driving wheels, arranged on either side of the machine and one of which is located nearer to the center of the resistance offered to the soil working device than the other, and means for unequally distributing the driving power to the driving wheels, so as to impart a greater driving force to the wheel, which is nearer to said center of resistance.

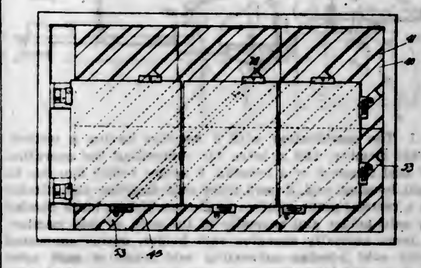
2. In an automobile agricultural machine, the combination with a soil working device of two driving wheels, arranged on either side of the machine and one of which is located nearer to the center of the resistance offered to the soil working device than the other, and unsymmetric differential mechanism adapted to unequally distribute the driving power to the driving wheels, so as to impart a greater power to the wheel, which is nearer to said center of resistance.

1,399,046. ORE-TREATING FURNACE. FREDERICK J. BOWMAN, Cleveland, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 29, 1917. Serial No. 209,410. 6 Claims. (Cl. 263—30.)



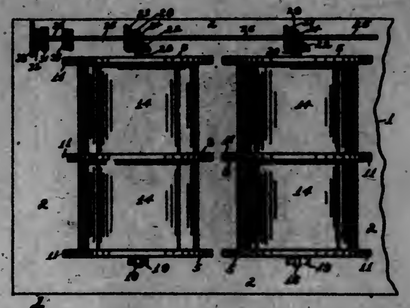
1. In an ore roasting furnace, the combination of a roasting chamber, a plurality of triangular heated elements disposed in transverse rows with their apices uppermost, the elements in each row being arranged to lie between the elements of the next adjacent rows, means for introducing finely divided ore at one end of said chamber, and other means adapted to supply heated oxygen at the same end.

1,399,047. PRINTING-PLATE MOUNTING. WILLIAM F. BROWMANN, Evanston, Ill., assignor to Printing Utilities Company, a Corporation of Delaware. Filed July 19, 1915. Serial No. 40,640. 18 Claims. (Cl. 101—388.)



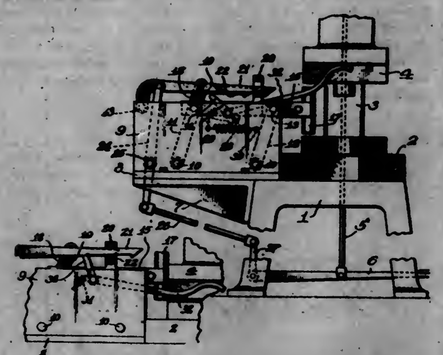
1. In a printing plate mounting, the combination of a foundation having an undercut groove in its upper surface, a plate-clamping catch having a body insertible in, and slidable along, said groove, means carried by, and movably mounted on, said body for locking said body against movement out of said groove and engageable with the under-cut surfaces of said groove at points spaced longitudinally of said groove, a member carried by said body for controlling said locking means and means in the groove and on the block meshing together, when the block is locked in the groove, to hold the plate clamping catch against longitudinal movement in the groove.

1,399,048. DUMP-SCOW. HUGH V. BUTT, Norfolk, Va. Filed Mar. 2, 1921. Serial No. 449,449. 2 Claims. (Cl. 114—27.)



1. A scow having vertical dump wells opening through the bottom, bearing rings disposed partly within the wells and partly above the same, and cargo cylinders rotatively mounted within said rings.

1,399,049. SAFETY DEVICE FOR PRESSES. HUDSON A. DAVENPORT, Wyandotte, Mich., assignor of one-third to Frederick P. Sprague, Wyandotte, Mich., and one-third to Harry G. Morrison, Trenton, Mich. Filed Oct. 30, 1919. Serial No. 334,560. 4 Claims. (Cl. 192—116.)



1. The combination with a machine having a reciprocable member, and a lever for controlling the operation of said member, of a housing, a holder bodily movable in said housing and to and from said machine and tiltable in a vertical plane relative to the machine, a block carried by said holder and normally in the path of said member, a latch normally engaging said holder, means supported from said housing connecting said latch to said lever so that said latch may be operated to retract said holder when said lever is depressed, and means parallel to said latch and supported from said housing adapted to temporarily hold said holder until said member is in the path of said block.

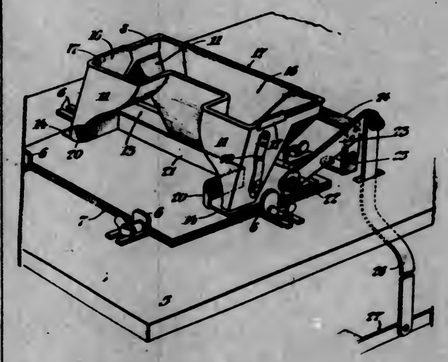
1,399,050. CROSSBAR FOR TRAMWAY-TRACKS. ARTHUR DEVAIN, Jemeppe-Liége, Belgium. Filed Nov. 1, 1916. Serial No. 126,886. 3 Claims. (Cl. 238—80.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. The combination with a rail-way rail having a slot formed in the web thereof, of a fastening device therefor comprising a rod formed with a reduced portion and a head adapted to have locking engagement within said



slot, and a device fitting in the slot against said reduced rod portion and holding said rod from displacement, substantially as set forth.

1,399,051. APPARATUS FOR APPLYING ADHESIVE TO WRAPPING-PAPER. WILLIAM J. ELDER and CHARLES N. MOSHEROSS, Oswego, N. Y., assignors to The Diamond Match Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 2, 1920. Serial No. 370,630. 5 Claims. (Cl. 93—68.)

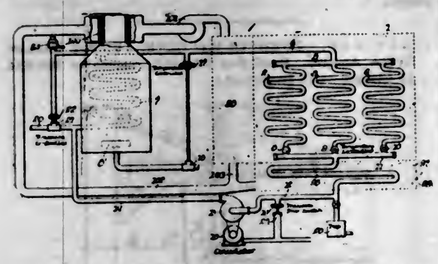


1. In an apparatus for applying adhesive to wrappers, a wrapper support, a unitary paste receptacle comprising a main upper chamber and a series of depending feed chambers integral with and supplied from said upper chamber, said feed chambers terminating at their lower ends in contracted discharge openings which overhang the adjacent rear and side edges of the wrapper and afford a space to receive the packages to be wrapped, and connections permitting bodily vertical reciprocation of said receptacle above the wrapper support.

1,399,052. HEATING SYSTEM. LEWIS M. ELLIS, Chicago, Ill., assignor to Winslow Safety High Pressure Boiler Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 23, 1920. Serial No. 432,702. 17 Claims. (Cl. 237—67.)

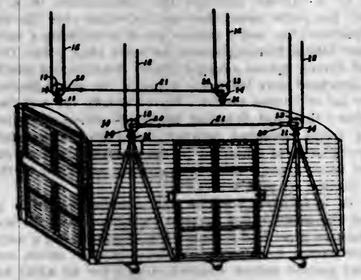
1. A heating system comprising a closed vapor circuit, said circuit including a heater for superheating the vapor to a temperature above the temperature corresponding to the saturated vapor at the pressure prevailing in the system, a coil for giving off heat from the vapor and reducing the temperature of the vapor to a point above the

corresponding temperature of saturated vapor at the same pressure and a circulator for moving the vapor from the



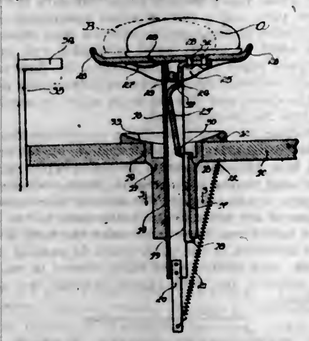
coil back to the superheater while the vapor is still uncondensed.

1,399,053. RETAINING DEVICE FOR ELEVATING-CABLES. BENJAMIN F. FITCH, Evanston, Ill. Filed June 30, 1920. Serial No. 392,966. 10 Claims. (Cl. 254—89.)



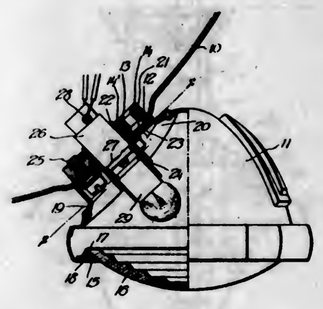
1. In a device of the class described, the combination with a plurality of hoisting sheaves, of means comprising a movable tension device for limiting the distance separating the said hoisting sheaves.

1,399,054. ACCELERATOR-PEDAL. WILLIAM C. GEWALT, Racine, Wis. Filed Nov. 11, 1920. Serial No. 423,251. 9 Claims. (Cl. 74—81.)



1. A motion imparting device comprising a stem and a head, a guide for the stem, and means carried on and operable by the head for engagement with the guide for locking the stem.

1,399,055. LAMP-SUPPORTING MEANS FOR MOTOR-VEHICLES. GEORGE E. GODDARD, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed June 10, 1916. Serial No. 102,945. 2 Claims. (Cl. 240—7.)



1. The combination with a lamp body having a front opening, a detachable lens for said opening, and a boss extending diagonally both inwardly and outwardly from the wall of said lamp body, of a support surrounding the outwardly extending part of said boss, a lamp bulb in the inwardly extending part of said boss, and detachable securing means for said lamp body to said support accessible through said front opening.

1,399,056. SHUTTLE FOR EMBROIDERING-MACHINES. PAUL RICHARD HAUSSLER, Plauen, Germany. Filed Feb. 1, 1916. Serial No. 75,555. 2 Claims. (Cl. 112—234.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

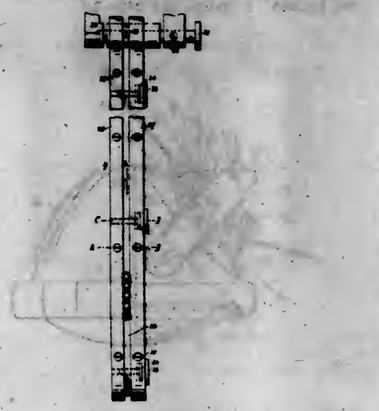


1. A shuttle comprising a shuttle body provided with a continuous guiding face, all portions of which lie in the same plane, an inlet opening surrounded by said guiding face, and a bulge in the side wall of the shuttle beneath the guiding face portion of such side wall, said bulge being curved both lengthwise of the shuttle and transversely thereof.

1,399,057. EYELET AND HOOK-SETTING MACHINE. DITMAR HEINSOHN, Oberursel on Taunus, Germany. Filed June 30, 1915. Serial No. 37,254. 1 Claim. (Cl. 218—15.1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

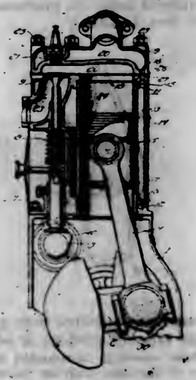
In an eyelet and hook setting machine having a die and punch, an adjustable race way comprising a casting, two vertically yieldable guide bars, springs between said casting and said guide bars, holding-screws for regulating the

distance between said guide bars and said casting, the screw holes in one of the guide bars through which the



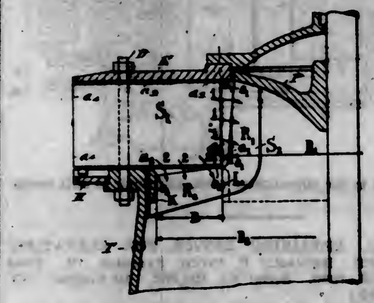
holding screws pass being slotted for allowing a lateral displacement of the corresponding guide bar, and set-screws to bring about this lateral displacement.

1,399,058. CYLINDER CONSTRUCTION. JOHN O. HEINEN, Boyne City, Mich., assignor to Traction Engine Company, Boyne City, Mich., a Corporation of Michigan. Filed Aug. 4, 1919. Serial No. 315,329. 8 Claims. (Cl. 123—173.)



1. In a gas engine, the combination of a cylinder frame adapted to serve as the outer wall of an annular cavity containing water for cooling purposes, said frame having at one end a head inclosing the compression end of the cylinder, a sealing seat being provided at the inner or compression end of the frame, a sleeve having its inner end engaging said seat and its outer end provided with means coöperating with the outer end of the frame for sealing the lower end of the water cavity and for forcing the inner end of the sleeve into said seat, thereby sealing the upper end of the water cavity, the sleeve constituting the inner wall of the cavity, and a piston reciprocable within said sleeve, all said parts constituting a unitary structure and a crank case on which said structure is detachably supported.

1,399,059. TURBINE-MACHINE. VICTOR KAPLAN, Brünn, Austria. Filed Nov. 20, 1913. Serial No. 803,384. 15 Claims. (Cl. 253—122.)



1. In a turbine machine the combination of a guide wheel, the guide vanes thereon projecting over the wall of the suction pipe, and a runner wheel comprising a series of runner blades forming spaces between each other, the one set of runner spaces adapted chiefly for an axial admission and arranged near the lower edges of the guide blades, the other set of runner blades adapted chiefly for a radial admission; the fluid entering the guide wheel centripetally being freely deflected between the guide vanes, and the quantity of fluid admitted to the axial portion of runner wheel being greater than the quantity admitted to the radial portion of said wheel.

2. In a turbine machine the combination of a guide wheel, the guide vanes thereon projecting over the wall of the suction pipe, and a runner wheel comprising a series of runner blades, forming spaces between each other, one set of said runner spaces adapted chiefly for an axial admission and arranged near the lower edges of the guide vanes, another set of axial flow runner spaces arranged near the upper edges of said guide vanes and a third set of runner spaces adapted chiefly for a radial admission, the fluid entering centripetally between the guide vanes being freely deflected in the guide spaces and the quantity of fluid admitted to the axial portion of the runner being greater than the quantity admitted to the radial portion of said wheel.

3. In a turbine machine, the combination of a guide wheel, the guide vanes thereon projecting over the wall of the suction pipe, and a runner wheel comprising a series of runner blades forming spaces between each other adapted for an axial or nearly axial admission and arranged near the lower edges of the guide vanes, the fluid entering centripetally between the guide vanes being freely deflected in the guide spaces and flowing in an axial or nearly axial direction into the runner wheel.

14. A turbine machine comprising in combination a runner provided with axial flow blades, guide blades arranged to extend in a generally radial direction with respect to the axis of said runner and extending from the outer edges of the runner blades toward the axis of the runner, the radial edges of the guide blades being open to the runner blades and contiguous thereto whereby the fluid is free to change its direction in the guide space in passing through the machine, said guide blades being curved in the radial direction whereby the fluid passes through the machine without shock.

1,399,060. PISTON-PACKING DISKS. JAMES W. KELLY, Chicago, Ill. Filed July 30, 1920. Serial No. 400,040. 2 Claims. (Cl. 74—109.)

1. The combination with a piston having a boss formed thereon, of a packing member on said piston comprising a

flat ring portion seated on said boss, a downwardly inclined portion integral therewith and resting against the



head of said piston, and a circumferential flange integral with said inclined portion.

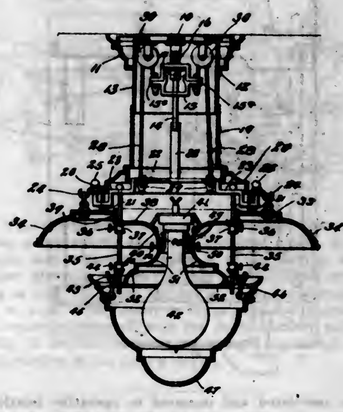
1,399,061. TIN-OPENER. GUSTAV KRACHT, Solingen, Germany. Filed Jan. 17, 1913. Serial No. 742,553. 1 Claim. (Cl. 30—8.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



In a tin-opener, the combination of a forked handle, having a butt-bearing, an arm pivoted to said handle, a cutting blade carried by said arm, a spring to turn said blade into the forked handle when not in use, and a button on said arm to turn the blade into its operative position, substantially as and for the purpose set forth.

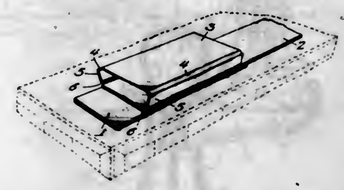
1,399,062. LIGHTING-FIXTURE. CHARLES R. LEIMECKE, Detroit, Mich.; Blanche C. Leimecke, widow of said Charles R. Leimecke, deceased. Filed May 27, 1920. Serial No. 384,000. 13 Claims. (Cl. 240—78.)

1. In a lighting fixture, the combination of a vertically adjustable outer reflector having a reflecting surface, an extension forming a secondary or inner reflector also having a reflecting surface and which is arranged for vertical adjustment independently of said outer reflector, a bowl suspended beneath said inner reflector, a source of light



within said bowl, and a semi-focusing reflector arranged between said source of light and said outer reflector.

1,399,063. REINFORCING-GIRTH. JOHN W. LESLIE, Evanston, Ill. Filed Mar. 15, 1920. Serial No. 365,953. 7 Claims. (Cl. 24—28.)

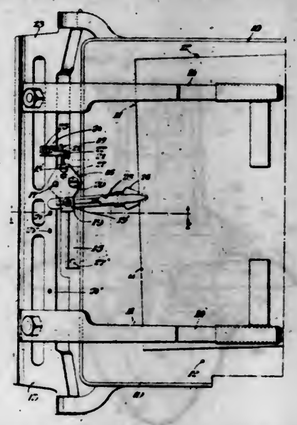


1. A reinforcing girth for box strapping or the like, comprising a back piece, a pair of flanges arranged at the longitudinal edges of the back piece, and extending outwardly and downwardly and then downwardly and inwardly, the free edges of the flanges being spaced apart a distance substantially equal to the width of the corresponding box strapping.

1,399,064. SHEET-REGISTERING DEVICE. EDWARD R. LINEBAUGH, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 17, 1921. Serial No. 445,596. 3 Claims. (Cl. 101—414.)

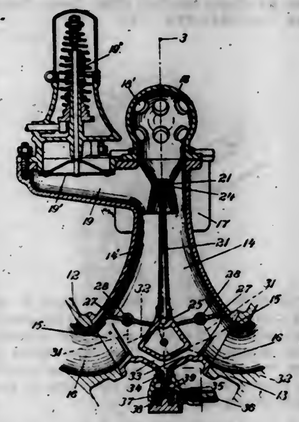
1. In a printing press having a platen and sheet stops thereon and having a vibratory gripper bar coöperating with said platen, a unitary reversible sheet registering device comprising an oscillatory member having spaced-apart portions for interchangeable pivotal mounting adjacent the platen, a sheet receiving and registering arm detachably secured to one end of said member, and means providing a freely movable connection for the opposite end of said member and either of two locations on the

bar as required by the pivotal mounting of the said member, whereby the said member, arm and connecting means



can be associated and mounted in operative relation to each other to effect either right or left hand registry movement of the said arm.

1,399,065. CARBURETER. ALLEN LOOMIS, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 13, 1915. Serial No. 61,282. 3 Claims. (Cl. 261—1.)

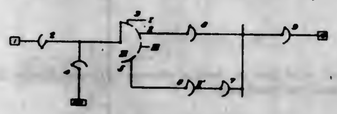


1. In a carbureter the combination of an air inlet, two mixture outlets below said inlet, a Venturi tube extending downwardly from said inlet, a cross member between said outlets and a gasolene nozzle mounted on and extending upwardly from said cross member into said Venturi tube.

2. In a carbureter, the combination of an air inlet, two mixture outlets below said inlet, a Venturi tube extending downwardly from said inlet, a cross member between said outlets, a gasolene nozzle mounted on and extending upwardly from said cross member into said Venturi tube, and a drain for condensed gasolene between said outlets and below said cross member.

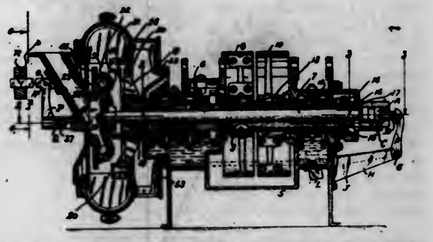
3. In a carbureter, the combination of an air inlet, two mixture outlets below said inlet, a Venturi tube extending downwardly from said inlet, a cross member between said outlets, a gasolene nozzle mounted on and extending upwardly from said cross member into said Venturi tube, a drain for condensed gasolene between said outlets and below said cross member and throttle valves for each outlet at either side of said cross member.

1,399,066. TELEPHONE-EXCHANGE SYSTEM. FRITZ LUBBERGER, Berlin-Halensee, and WALTER PINELL, Siemensstadt, near Berlin, Germany, assignors, by mesne assignments, to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 20, 1915. Serial No. 51,719. 12 Claims. (Cl. 179—18.)



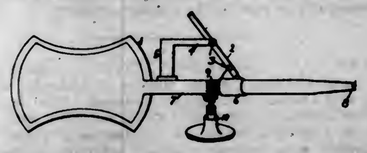
1. In a telephone exchange system, a calling and a called line, means including a plurality of groups of selectively operable switching devices and trunk lines for establishing a connecting path between said lines, and means operable upon the failure of a switching device of one group to find an available switching device of the next succeeding group of switching devices to extend the connecting path around the group of unavailable switching devices to an idle trunk normally accessible through the switching devices of said latter group.

1,399,067. PULVERIZING-MILL. EDWARD F. MCCOOL, Cleveland, Ohio. Filed June 4, 1918, Serial No. 238,094. Renewed Mar. 8, 1920. Serial No. 364,249. 7 Claims. (Cl. 83—10.)



1. A pulverizing mill including two coöperating grinding members, one being movable toward and away from the other, one of the said members carrying at its outer edge a ring, and means for automatically adjusting the said ring to regulate the discharge space and to compensate for the wear of the grinding members, said means including a bell crank lever having one arm weighted while the other arm serves to yieldingly maintain the ring in the desired position of adjustment.

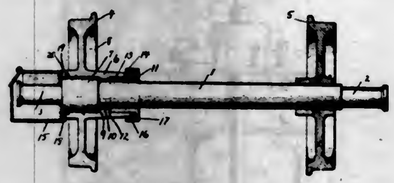
1,399,068. BALL-CAVITY BLOWER. MAX MILLER, New York, N. Y. Filed Dec. 7, 1920. Serial No. 429,021. 2 Claims. (Cl. 32—28.)



2. A ball cavity blower with a ball, long tube, perforations in this tube, a sliding or outer tube for opening or

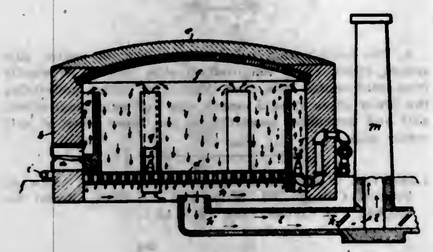
closing the holes in main tube, a mechanism to move the sliding member in either direction on the main tube, a slotted lever arm allowing connecting pin to move up or down to give clearance to the sliding member on the main tube.

1,399,069. AXLE. GEORGE F. MORGAN, New York, N. Y. Filed Apr. 15, 1921. Serial No. 461,492. 1 Claim. (Cl. 295—36.)



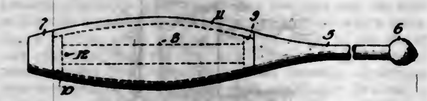
An axle for railway cars and the like having journal bearings and comprising a wheel fixed at one end of the axle, a collar fixed at the opposite end of the axle, a loosely mounted wheel journaled on the collar, the inner end of the collar being substantially coincident with the flange of the wheel, a second collar fixed on the axle and spaced apart from the first collar and affording bearing for an elongation of the hub of the loosely mounted wheel, and a flange on the hub engaged by the collars to prevent longitudinal movement of the loosely mounted wheel.

1,399,070. METHOD OF FIRING KILNS. FRANK MUNHOLLON, Cleveland, Ohio. Filed July 26, 1919. Serial No. 313,548. 6 Claims. (Cl. 25—151.)



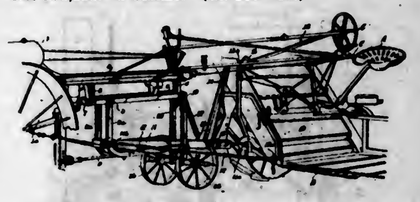
1. The herein described method of firing kilns, which consists in causing the reverting circulation of the products of combustion by a gaseous stream under pressure, substantially as and for the purpose set forth.

1,399,071. INDIAN-CLUB. FRANK NOWAK, Chicago, Ill., assignor of one-third to Samuel N. Pond, Chicago, Ill. Filed Feb. 12, 1921. Serial No. 444,371. 3 Claims. (Cl. 46—68.)



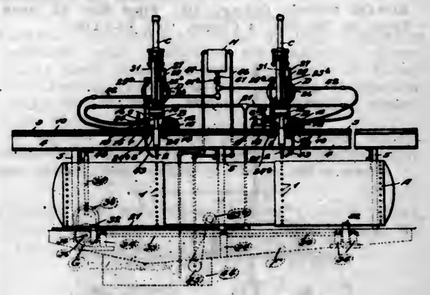
1. An Indian club having wooden handle and foot portions, an axial spindle connecting said handle and foot portions, and a hollow transversely resilient envelop or shell of sufficient thickness to maintain its form without internal support mounted at its ends upon the said handle and foot portions and encircling said spindle and forming the main body portion of the club.

1,399,072. TRACTOR CONNECTION FOR AGRICULTURAL IMPLEMENTS. PETER J. O'CONNOR, Poughkeepsie, N. Y., assignor to Moline Plow Company, a Corporation of Illinois. Filed Jan. 31, 1919. Serial No. 274,223. 4 Claims. (Cl. 180—14.)



1. The combination with a front wheel drive tractor having a rearwardly extending coupling frame, of a stabilising and connecting truck, a drawn device, a draft member pivotally connecting the drawn device with the truck so that the truck and drawn device may move relative to each other about a transverse, horizontal axis, and means coöperating with the draft member and truck serving to resiliently resist an upward movement of the truck relative to the drawn device.

1,399,073. REAMING-MACHINE. FREDERICK O. PALMETER and SAMUEL B. CLAY, St. Louis, Mo., assignors to Heine Safety Boiler Company, St. Louis, Mo., a Corporation of Missouri. Filed July 29, 1919. Serial No. 314,041. 5 Claims. (Cl. 77—32.)

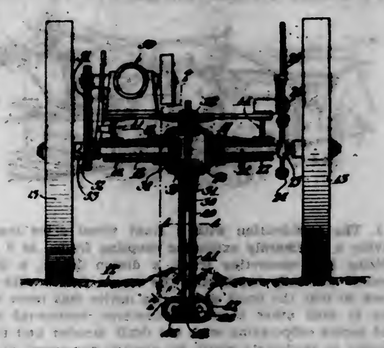


1. A boring or reaming machine, comprising a work support, a supporting structure extending longitudinally of said work support at one side of same, a longitudinally-movable carrier on said supporting structure, a reciprocating base plate on said carrier arranged to move in a direction at right angles to the direction of movement of said carrier, a spindle support on said base plate, a vertically-movable spindle in said support, an elevated cylinder on said spindle support arranged above the spindle and provided with a piston that raises and lowers said spindle, independent, manually-operable devices arranged at the front end of said spindle support for effecting the longitudinal movement of said carrier and for moving the base plate relatively to said carrier, and a valve operable from a point in proximity to said manually-operable devices for governing the admission of the medium used to operate the piston in said cylinder.

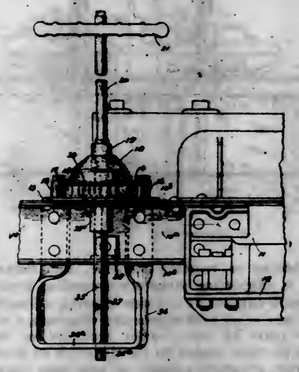
1,399,074. EARTH-AUGER. FRANK W. PERRY, Los Angeles, Calif. Filed Sept. 22, 1919. Serial No. 325,551. 5 Claims. (Cl. 55—106.)

3. A device for breaking up and loosening soil comprising a frame, wheels supporting said frame above the surface of the ground, a vertical shaft, means for supporting

said shaft in said frame so that said shaft may be swung about a horizontal axis at right angles to said shaft, means for so swinging said shaft, means for locking said shaft in any one of several positions about said horizontal axis so that said shaft may be secured in either a vertical or an inclined position, means for driving said shaft, and an earth auger swinging with said shaft and driven thereby, the axis of said auger being at an angle to the axis of said shaft.



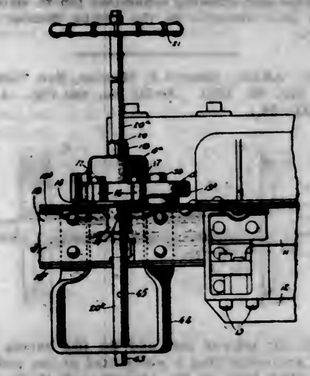
1,399,075. COMPOUND HAND-BRAKE MECHANISM. EDWARD POSSON, Chicago, Ill. Filed Nov. 25, 1918. Serial No. 263,999. 4 Claims. (Cl. 74—119.)



1. The combination in railway brake mechanism, of a horizontal supporting plate, a frame member carried by said plate, an upper brake mast journaled in said frame member, a ratchet wheel seated on said frame member and having a non-rotatable engagement with said mast, a collar secured to said mast and resting on said ratchet wheel, a lower mast extending downwardly from said plate, and gearing mechanism mounted above said plate for operatively connecting said brake masts.

1,399,076. COMPOUND HAND-BRAKE MECHANISM. EDWARD POSSON, Chicago, Ill. Filed Jan. 20, 1919. Serial No. 272,219. 9 Claims. (Cl. 74—119.)

1. The combination in railway brake mechanism, of a brake mast formed in sliding sections, gears mounted on the adjacent ends of said sections, an integrally formed gear member mounted on one side of said first-mentioned gears and meshing therewith, a ratchet wheel formed integrally with one of said gears, and a pawl adapted to engage said ratchet wheel.

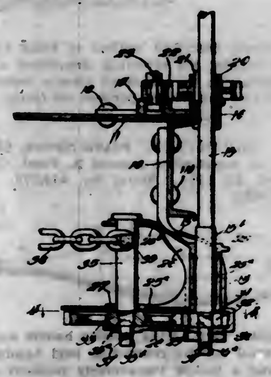


1,399,077. DRAFT-ARM CONSTRUCTION FOR RAILWAY-CARS. EDWARD POSSON, Chicago, Ill. Filed Dec. 26, 1919. Serial No. 347,380. 18 Claims. (Cl. 105—420.)



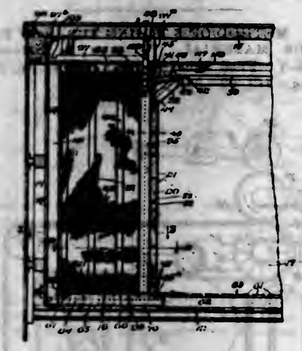
1. The combination in a railway car, of center sills spaced apart, other longitudinal sills located outwardly from said center sills, and draft arm plates underlying the lower edges of said center sills and said longitudinal sills and extending upwardly on the inner sides of said center sills.

1,399,078. COMPOUND BRAKE MECHANISM. EDWARD POSSON, Chicago, Ill. Filed Feb. 27, 1920. Serial No. 361,645. 11 Claims. (Cl. 74—112.)



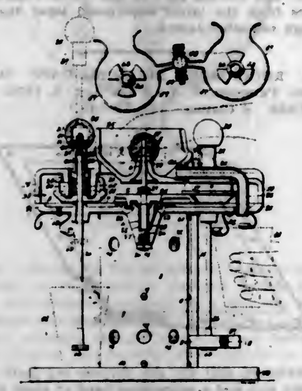
1. In combination, a brake mast, a housing rotatably mounted with respect to said mast, and compound brake mechanism carried by said housing and connected to said mast.

1,399,079. REFRIGERATOR-CAR. EDWARD POSSON, Chicago, Ill. Filed Apr. 19, 1920. Serial No. 372,883. 23 Claims. (Cl. 105—376.)



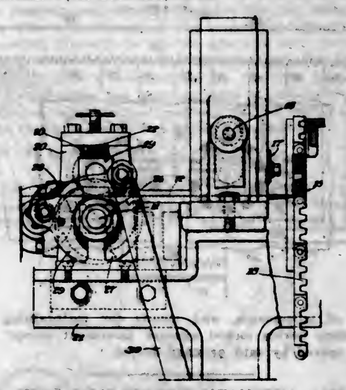
1. In a refrigerator car, an ice chamber having an ice supporting floor located normally in the plane of the floor of the car.

1,399,080. DRINK-MIXING MACHINE. HARRY B. ROSS, Denver, Colo., assignor of three-fourths to Harold A. Clarke, Denver, Colo. Filed Aug. 3, 1920. Serial No. 400,902. 18 Claims. (Cl. 259—131.)



1. In a soda mixing mechanism, a base, a housing, supporting columns on the base for the housing, a motor housing located on the base between the base and the first mentioned housing, an electric motor in said motor housing, a driving shaft coupled with the shaft of the motor and projecting into the first mentioned housing, a master friction drive cone mounted in said housing, a driving cone mounted on said driving shaft within the housing to engage the master cone, at least one spindle bearing carried by the housing, a friction drive cone having a hollow axle journaled in said bearing, an agitator spindle longitudinally movable in said hollow axle, a clutch device between said spindle and hollow axle for engaging the same when said agitator spindle is down, means for holding said driving shaft cone in frictional engagement with said master cone, substantially as shown and described.

1,399,081. MACHINE FOR MAKING CARD-MATCHES. HENRY A. RUSS, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 12, 1921. Serial No. 460,837. 3 Claims. (Cl. 144—51.)

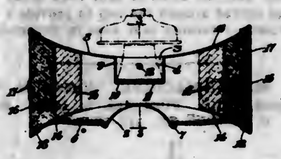


1. In a machine for making card matches, the combination with splint-cutting mechanism comprising complementary upper and lower bar dies to and between which the match-stock is delivered, of means in advance of said dies for progressively compressing the match stock in parallel paths in longitudinal alinement with the tops of the bars of the lower die.

1,399,082. QUATERNARY BASE OF THE CAMPHOR SERIES AND PROCESS OF MAKING SAME. HANS RUPE, Basel, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Filed Mar. 9, 1921. Serial No. 450,856. 3 Claims. (Cl. 23—24.)

1. As new products, the herein described trialkylcamphormethylammonium haloids, which constitute colorless crystals, easily soluble in alcohol and in water.

1,399,083. TELEPHONE-MUFFLER. LOUIS S. SCHEB, New York, N. Y. Filed Apr. 21, 1921. Serial No. 463,100. 11 Claims. (Cl. 179—188.)

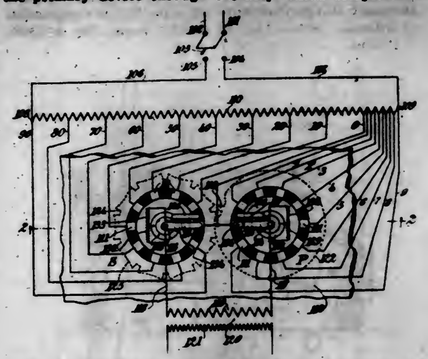


7. A device of the character described, comprising a member having an opening for a telephone mouthpiece, and an opening to which the mouth of the user may be applied, and an interior space providing a passage between said openings, with lateral extensions, the latter having side walls which flare outwardly toward their outer ends.

1,399,084. ELECTRIC CONTROLLING APPARATUS. JOHN L. SCHEARERHORN, Newark, N. J., assignor to American Transformer Company, Newark, N. J., a Corporation of New Jersey. Filed Aug. 2, 1920. Serial No. 400,725. 8 Claims. (Cl. 171—119.)

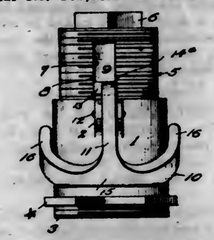
1. An electric controller comprising a primary switching device and a secondary switching device, each movable to a plurality of successive positions of varying controlling effect, said primary device being capable of repeating its cycle of movements, means for causing said secondary

device to advance one step at each advance movement of the primary device through the step which completes its



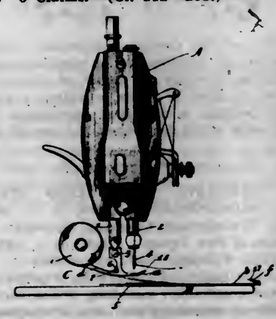
cycle of movements, and means for maintaining said secondary device locked against movement except when being moved by said primary device.

1,399,085. AUTOMATIC GREASE-PLUG LOCK. WILLIAM F. SCHMIDT, Green Bay, Wis. Filed Mar. 19, 1920. Serial No. 367,261. 1 Claim. (Cl. 184—48.)



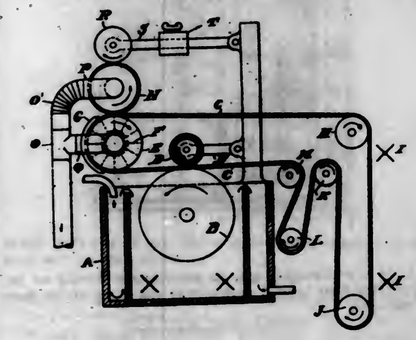
A grease cup having a plug threaded therein, said plug having a ratchet groove therein, an inverted T-shaped pawl having its shank pivoted on said cup and a nose extending laterally from its free end for engagement with said groove, the head of said pawl being spaced from the cup, and the arms of said head being extended laterally and curved around the cup to provide a weighted end for normally retaining said nose in engagement with said notch.

1,399,086. SEWING-MACHINE. MORRIS M. SCHRAGO, Los Angeles, Calif. Filed Apr. 5, 1919. Serial No. 287,683. 6 Claims. (Cl. 112—203.)



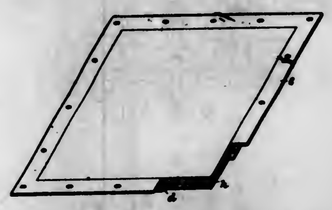
1. In a sewing machine, the combination with a presser foot, and needle mechanism, of a ribbon adapted to be extended so as to overlie work beneath and beyond the presser foot or be retracted toward the presser foot; means being provided for housing the ribbon when retracted; said means having a tension device tending to retract said ribbon.

1,399,087. METHOD OF FORMING TUBES OF FELTED FIBROUS MATERIAL. WILLIAM R. SEIGLE, New York, N. Y. Filed June 28, 1920. Serial No. 392,372. 4 Claims. (Cl. 92—66.)



1. The method of forming tubes of fibrous material, which consists in forming a web of said fibrous material with water, extracting part of the water-content from said web, superposing successive layers of said web on each other, and forcing part of the water remaining in said layers from the latest superposed layer thereof to and through the other layers.

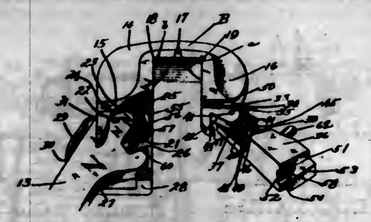
1,399,088. REINFORCED BUILDING UNIT. WILLIAM SEYMOUR, Paterson, N. J. Filed Aug. 9, 1920. Serial No. 402,083. 4 Claims. (Cl. 72—40.)



1. A reinforced unit for the purpose set forth including a plastic slab and a supporting band of sheet material extending around and lying throughout substantially its whole longtiudinal extent in adhering contact with the slab marginally thereof and being inwardly deflected as to a relatively great part of its longitudinal extent and forming outwardly a marginal undercut and inwardly an elongated ledge-support for the slab.

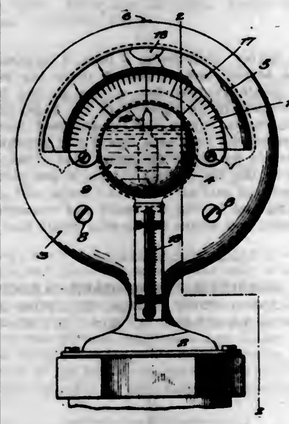
1,399,089. TOOL-WRENCH. HEWLET T. SMITH, Oxnard, Calif. Filed Nov. 18, 1920. Serial No. 424,807. 7 Claims. (Cl. 81—91.)

2. In a wrench, the combination with a lever, of a jaw member having one of its ends pivotally joined thereto, a closure member pivotally joined to the opposite end of the jaw member, and inter-engaging means on said members for locking said members together in stress distributing formation; said end of the jaw member which coöperates with the lever being recessed for reception of a portion of said lever, said lever being provided with a part adapted to bear against a lateral edge of said



jaw member; said lever likewise being provided with a jaw member and there being a groove formed in said closure member for reception of said jaw member.

1,399,090. INCLINOMETER FOR AEROPLANES. NOAL W. SPENCER, Sioux Falls, S. D. Filed Aug. 13, 1920. Serial No. 403,349. 9 Claims. (Cl. 33—206.)



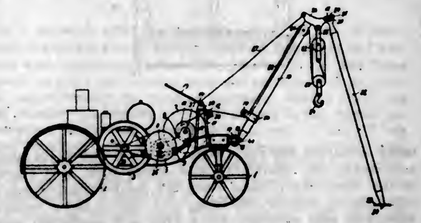
1. An inclinometer for aeroplanes, comprising a casing consisting of supplemental sections having registering central and relative concentric sight openings, an arcuate bubble indicator disposed in the concentric sight openings, a second indicator engaged in the central sight openings and an arcuate dial between and common to both indicators.

1,399,091. TABLE-TILTING MECHANISM. CHARLES E. THOMPSON, Denver, Colo., assignor to The Mine & Smelter Supply Company, Denver, Colo., a Corporation of Colorado. Filed May 15, 1919. Serial No. 297,198. 2 Claims. (Cl. 83—88.)



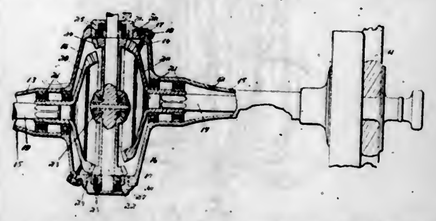
1. The combination with a main frame, a table or deck and rockers interposed between the two forming a movable support for the deck or table, of a draw-bar connected to the deck or table and to the rocker-bearings and having swivel connection with the head motion, adjusting means connected with the draw-bar for rocking the latter axially to tilt the deck or table to the desired inclination, said tilting mechanism comprising a tilting-arm secured to the draw-bar, a sliding-block having a pocket therein which receives and affords clearance for the tilting-arm as the table is reciprocated, and means for adjusting the sliding-block laterally to tilt the arm and rock the draw-bar, said means comprising a threaded rod, the threads of which turn in a threaded hole in the slide block, and when turned cause the latter to slide in one direction or the other to apply lateral pressure to the tilting-arm to tilt the latter and rock and adjust the draw-bar.

1,399,092. STUMP-PULLING APPARATUS. SVERRE THORESEN, Gaarder, Gardermoen, Norway. Filed Feb. 5, 1920. Serial No. 356,532. 1 Claim. (Cl. 254—166.)



The combination with a tractor, of a fork attached to the same, a cantaliver pivotally connected to the fork and mounted for horizontal and vertical oscillations, a head for the cantaliver, links pivotally connected to said head, support rods pivotally connected to said links and designed to have their lower ends engage the surface of the soil when a stump is being raised, said rods also being manually operable by the operator for shifting the head of the cantaliver from side to side, and hoisting mechanism supported by the tractor, cantaliver, and rods.

1,399,093. MOTOR-VEHICLE. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 10, 1916. Serial No. 77,454. 24 Claims. (Cl. 74—56.)



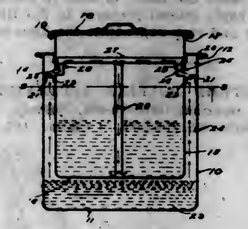
1. In a vehicle axle, the combination with driving and driven shafts, of a rigid casing having relatively fixed bearings therefor, said casing comprising symmetrical members diagonally joined together.

9. A driving axle casing comprising two members each having a tubular portion and an enlarged end, and means joining said enlarged ends with the axes of the tubular portions offset.

1,399,094. DOMESTIC COOKING VESSEL. GEORGE WILBER WATTS, Hot Springs, Ark. Filed Jan. 13, 1921. Serial No. 436,952. 4 Claims. (Cl. 53—2.)

1. A steam cooker comprising an outer boiler adapted to contain water, a container arranged within said outer

boiler and defining therewith a steam space and having inlet ports communicating with said steam space, an annular flange fixed to the outer wall of said container and engaging the top of said outer boiler to seal the steam space and to support said inner boiler, interlocking means for maintaining said boilers in assembled relation including coacting angle brackets, elbows arranged in said



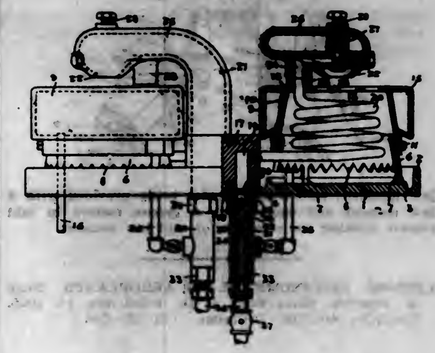
inner container and communicating with said steam ports, and means for conducting said steam from said elbows to the lower end of said container comprising horizontal pipes having sleeves embracing said elbows and a vertical depending pipe communicating with said horizontal pipes and having its delivery end disposed adjacent the bottom of said container.

1,399,095. VACUO-THERMIC-BODY-TREATMENT APPLIANCE. JEAN F. WEBB, Sr., New York, N. Y. Filed Dec. 2, 1919. Serial No. 341,902. 2 Claims. (Cl. 128—264.)



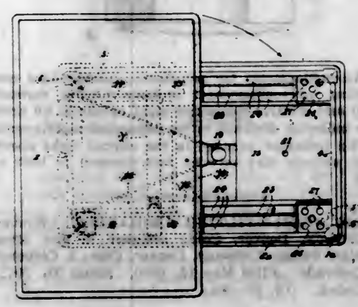
1. A vacuo-thermic appliance comprising a container of transparent heat resisting material, electric circulation wires embodied in the entire outside transparent shell of the said container, a circuit closure connected with the said container, the latter being provided with an open end adapted for being secured air tight against the human body, a source of electrical energy connected with the circuit closure and means attached to the container for effecting vacuum within the container, as desired.

1,399,096. OIL-BURNER. Elias Weaver, Toronto, Ontario, Canada. Filed July 29, 1920. Serial No. 399,704. 3 Claims. (Cl. 158—58.)



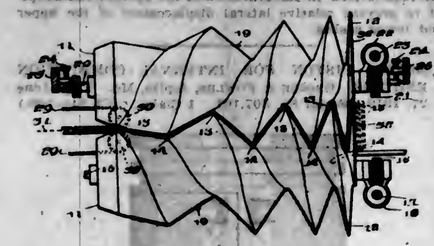
1. An oil burner, comprising, a base, a circular casing open at the bottom and supported above the base and having an opening in the top, a tube having its open lower end secured in an opening in the base, said tube extending upwardly beside said casing and having its upper end extending over said casing and provided with a convergent air nozzle in the under side arranged over the opening in the top of said casing, a gas nozzle supported centrally of said air nozzle, a tubular coil arranged in said casing and having its upper end connected with said gas nozzle, and means for feeding liquid fuel to said coil.

1,399,097. COMBINED PHONOGRAPH-CABINET AND TABLE. ANTON WILL, Chicago, Ill. Filed Jan. 15, 1921. Serial No. 437,495. 1 Claim. (Cl. 45—52.)



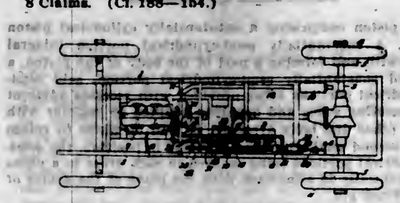
A combined phonograph cabinet and table comprising a table frame, having separate compartments therein with one of said compartments open at its lower side, and a table top hinged to said frame adapted to swing in a horizontal plane to expose one of the compartments, a phonograph horn having the inner end thereof extending into the exposed compartment and the outer end thereof extending into the other compartment and opening at the lower open end of said compartment.

1,399,098. FOLDING-MACHINE. CORNELIUS P. WIKSTROM, New Brunswick, N. J. Filed Oct. 7, 1920. Serial No. 415,865. 8 Claims. (Cl. 270—39.)



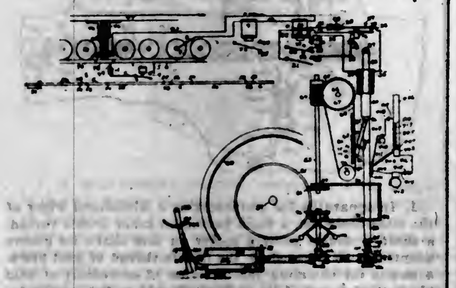
2. A folding mechanism which comprises a multiplicity of coöperating spiral rolls of graduated pitch, in contact with which a web of material to be folded may be passed, to cause the same to conform to their profile.

1,399,099. VACUUM-BRAKE. HARRY W. BARROWS, Omaha, Nebr. Filed Aug. 14, 1920. Serial No. 403,444. 8 Claims. (Cl. 188—154.)



1. In an automobile provided with a clutch between the power unit and the drive wheels, and also provided with brakes, means for producing vacuum conditions, brake operating means responsive to the vacuum conditions, means for moving the clutch to the unclutched position also responsive to the vacuum conditions, and means under the control of an operator for utilizing the vacuum conditions with respect to the brake operating means and the clutch means either together or with respect to the brake means alone.

1,399,100. AUTOMATIC TRAIN-CONTROLLING DEVICE FOR PREVENTING COLLISIONS. ABRAM L. BOWER, Boyertown, Pa. Filed Feb. 24, 1913. Serial No. 750,275. 13 Claims. (Cl. 246—179.)



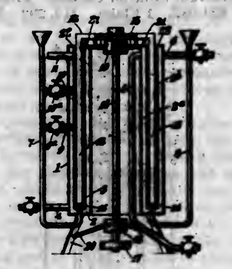
4. In a train controlling device, the combination of a train axle, a geared device connected thereto, a sprocket wheel connected to the geared device, a ladder chain supported by the sprocket wheel, a pawl and upright rod supported by the chain, a solenoid, a block controlled electric circuit for operating the solenoid, a core attached to the rod below the solenoid, a brake valve below the rod, the rod being adapted to open the brake valve and stop the train.

1,399,101. TOOL FOR SPLICING CABLES. NEWTON K. BOWMAN, Canton, Ohio. Filed Feb. 3, 1920. Serial No. 356,071. 1 Claim. (Cl. 153—1.)



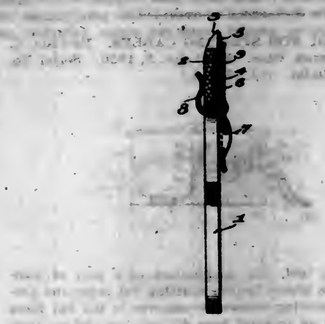
In a splicing tool, the combination of a pair of individual separable blocks having abutting flat faces and provided with registering transverse grooves in the flat faces thereof to form an integral base die member and an integral mating upper die member normally resting upon the base member to provide an anvil having a flat upper unobstructed anvil face extending from end to end of the latter member, the base die member being provided with centering pins upstanding from the flat face of such member at opposite sides of the groove therein and the upper die member being provided at opposite sides of its grooves with openings therethrough freely receiving said pins, the pins terminating short of the anvil face of the upper die member, and flexible means connecting the members, the base member being provided with an integral laterally projecting ear whereby said member may be secured to a support.

1,399,102. TREATING APPARATUS. CHARLES E. BURKE, Carneys Point, and GEORGE BARNHART, Woodstown, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 27, 1920. Serial No. 377,060. 18 Claims. (Cl. 23—3.)



1. In a continuous treating apparatus, in combination, an outer receptacle providing a chamber for a temperature-controlling medium, an inner reaction receptacle in the outer receptacle and spaced therefrom, means for introducing reacting materials into the inner receptacle and comprising a pair of reacting-material-introduction conduits, and means for withdrawing reaction products from such receptacle, said two means, with respect to each other, communicating with the inner receptacle at points spaced therealong, and the said conduits of said introducing means both being spaced from said withdrawing means in the same direction longitudinally of said reaction receptacle, whereby a pair of reacting materials can enter by said conduits and flow together along such receptacle toward said withdrawing means.

1,399,103. HAIR-CUTTER. DAVID H. BUTLER, Edgewood, R. I., assignor to The Inlaid Company, Providence, R. I., a Corporation of Rhode Island. Filed May 3, 1920. Serial No. 378,847. 7 Claims. (Cl. 30—12.)

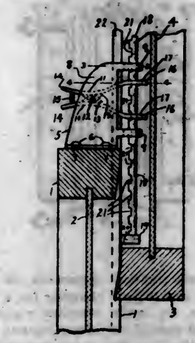


4. In a hair cutter, a handle having a head, a blade seated on one side of the head, a clamping device seated on the blade and engaged with the head and having a handle to move the device longitudinally of the first handle, the second handle engaging exteriorly over and with a side face of the first named handle, and means to hold the blade against movement longitudinally of the head.

1,399,104. DETONATING COMPOSITION. WILLARD C. COPE, Woodbury, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a Corporation of Delaware. Filed Jan. 8, 1918. Serial No. 210,821. 7 Claims. (Cl. 52—3.)

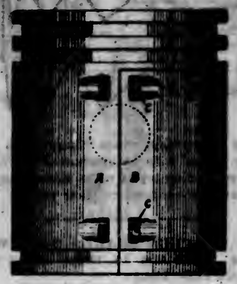
5. A detonating composition consisting of mercury fulminate and an oxid of lead.

1,399,105. SASH-FASTENER. GEORGE HENRY COBBS, Hamilton, Ontario, Canada, assignor of one-fourth to John Hagey, Brantford, Ontario, Canada, one-fourth to Harry Handel Blythe and one-fourth to Frank Herbert Secord, Hamilton, Ontario, Canada. Filed Nov. 1, 1920. Serial No. 421,082. 1 Claim. (Cl. 292—300.)



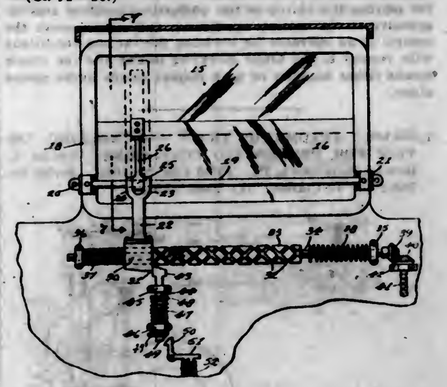
In a window, the combination with the upper and lower sashes thereof, of an upright notched rod carried by the upper sash and located within the plane of said sash, a bracket mounted upon the top edge of the lower sash, lugs formed integrally with the bracket and extending inwardly toward the upper sash, said lugs having bearing orifices through which the upright rod extends, a pair of locking fingers pivotally mounted intermediately of their length in the bracket and provided with orifices through which the upright rod extends, a spring normally separating the outer ends of the fingers, said fingers adapted to engage the notches in the rod for locking the two sashes in any desired partially open positions, the engagement between the lugs formed on the bracket and the upright rod adapted to prevent relative lateral displacement of the upper and lower sashes.

1,399,106. PISTON FOR INTERNAL-COMBUSTION ENGINES. GEORGE S. FOWLER, Joplin, Mo. Filed June 27, 1919. Serial No. 307,101. 1 Claim. (Cl. 74—108.)



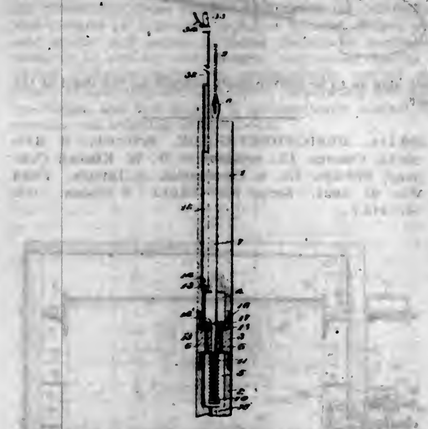
A piston comprising a substantially cylindrical piston head, a substantially semi-cylindrical portion integral therewith and forming a part of the body of the piston, a second substantially semi-cylindrical portion, said semi-cylindrical portions being provided with recesses adjacent the meeting edges and openings adapted to register with each other and bolts arranged in said openings to retain said second semi-cylindrical portions in position, the semi-cylindrical portions being secured to each other in a plane substantially in alinement with the plane of the center of the wrist pin.

1,399,107. WINDSHIELD-CLEANER. HENRYK FRANKOWSKI, Buffalo, and ADOLF HOFFMAN, Lackawanna, N. Y. Filed Feb. 19, 1921. Serial No. 446,446. 4 Claims. (Cl. 74—40.)



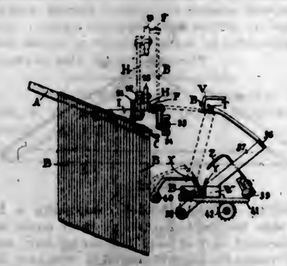
1. In apparatus for reciprocating a windshield wiper of the class described, a block having an inner double thread, a shaft, a double grooved socket on said shaft, its groove adapted to be engaged by the double thread of said block, a means for changing the direction of movement of said block at each end of its path along said socket, means for imparting a rotary movement to said shaft, and means for normally stopping the movement of said block but allowing a release of the same if the wiping of the windshield becomes necessary.

1,399,108. SELF-BAILING WELL-TOOL. LYLE GARRISON, St. Louis, Mo., assignor of one-half to Luna GARRISON SLOCUM, Washington, D. C. Filed July 21, 1920. Serial No. 397,843. 4 Claims. (Cl. 255—64.)



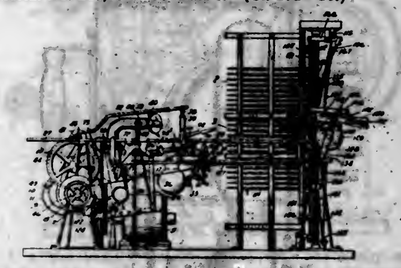
1. A device of the character described comprising a well tool provided with a pumping chamber and a valved conduit connecting said chamber with the base of said tool and with a point of discharge outside of the well, means for raising and lowering said tool, a spring interposed between said means and said tool, a valved piston connected to said means and reciprocable in said pumping chamber whereby on the raising and lowering of said tool, said piston draws the water and drill cuttings from adjacent the base of said tool and discharges the same outside of the well.

1,399,109. SKEIN FORMING AND BOXING MACHINE. CHARLES HUBER GSCHAUDT, Mulhouse, France, assignor to La Societe Anonyme "Dollfus-Mieg & Cie", Mulhouse, (Department of Haut-Rhin), France, a Corporation of France. Filed Mar. 31, 1921. Serial No. 457,340. 8 Claims. (Cl. 28—9.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A skein forming machine, comprising a bar adapted to carry a number of hanks to be treated, a lever adapted to oscillate and provided with a hook at its free end, means for lifting the hanks one by one from said bar and successively engaging each of them upon the hook of the said oscillating lever, a twisting spindle adapted to rotate around its axis and provided at its free end with a hook, means for imparting to the oscillating lever a semi-circular movement so as to pull the hank and stretch it between the hook of said lever and the hook of the twisting spindle, means for imparting to said spindle a movement of rotation around its axis so as to twist the hank between both hooks, a bar adapted to move across and above the twisted hank, means for imparting to the oscillating lever a semi-circular movement in the opposite direction, so as to fold the hank in half upon itself upon the cross bar acting as a guide, and to bring the end of the hank, carried by the hook of the lever, in front of the other end of the hank, carried by the hook of the twisting spindle, means for stripping the said first end from the lever hook onto the hook of the twisting spindle, so as to bring together both ends of the hank, and means for rotating the twisting spindle in a direction opposite to that of the first twisting operation, so as to twist together both halves of the hank folded one upon another.

1,399,110. AUTOMATIC TALKING-MACHINE. RALEIGH W. GODFREY, Oberlin, Ohio, assignor of three-fourths to Stanton S. Hobbs, Oberlin, Ohio. Filed Feb. 12, 1917. Serial No. 148,050. 30 Claims. (Cl. 274—10.)



1. An automatic sound reproducing machine comprising, in combination, a record magazine, automatically operated playing mechanism, an automatic transfer mechanism for transferring records individually from the magazine to the playing mechanism and after they are played return the same to the magazine, a motor for operating the playing mechanism, a motor for actuating the transfer mechanism, means automatically actuated by the transfer mechanism when a record is in position on the playing mechanism to stop the transfer motor and start the playing motor, means actuated automatically on completion of the playing of the record to stop the playing motor and start the transfer motor, and shiftable means arranged in one position to cause the transfer mechanism on its backward movement to continue the operation of the transfer motor to repeat the operation.

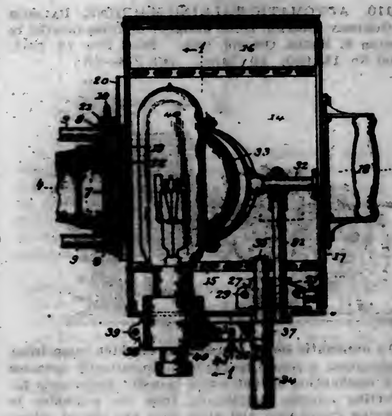
7. In an automatic sound reproducing machine, in combination, a record magazine, a playing mechanism, mechanism for automatically transferring a record from the magazine to the playing mechanism and returning it to the magazine, means for automatically moving the magazine step by step in either direction as the records are successively returned to it, and means for automatically reversing the direction of movement of the magazine when it reaches the end of its movement in either direction.

20. An automatic sound reproducing machine comprising, in combination, a record magazine, a playing mechanism, means for operating said playing mechanism, means reciprocating back and forth in the same plane for transferring a record from the magazine to the playing mechanism and returning it to the magazine, a power shaft, connecting therefrom to the transfer mechanism arranged to reciprocate the latter alternately in opposite directions, means actuated by the transfer mechanism arranged to stop the power shaft when the record is in position on the playing mechanism and start the playing mechanism, a movable sound reproducing device, and means actuated thereby when the playing of the record is finished arranged to stop the playing mechanism and start the power shaft.

29. In a sound reproducing machine, the combination of a supporting frame, a record magazine, a record sup-

port adjacent to the magazine, a rotatable driving shaft, a rotatable member, means operated by the driving shaft to automatically turn said member at certain predetermined intervals during the rotation of the driving shaft, and means operated by said member to first move the magazine in one direction to different positions to bring the records therein successively into registry with the record support and to thereafter move the magazine in the reverse direction to different positions to bring the records therein successively into registry with the record support.

1,399,111. OPTICAL-PROJECTION LANTERN. JOSEPH GRANZ, Duluth, Minn. Filed Mar. 28, 1919. Serial No. 285,760. 8 Claims. (Cl. 240—44.)



1. A lamp house for optical projection apparatus having a bottom wall formed with an aperture, an attaching head mounted on said bottom wall, a lamp adapted for insertion through the apertured bottom wall aforesaid, a head carrying said lamp and adapted for engagement with the attaching head aforesaid, in a manner capable of lateral adjustment, an adjustable stop stem on said carrying head, and an abutment lug on the lamp house bottom wall and adapted for contact with the side of the carrying head.

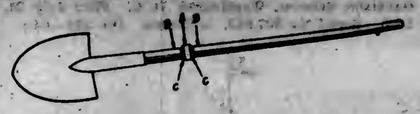
1,399,112. SWIVEL. FREDERICK G. GAUEN, Cincinnati, Ohio, assignor to The D. Gruen Sons & Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 26, 1920. Serial No. 391,978. 4 Claims. (Cl. 24—240.)



2. As a new article of manufacture the combination with a swivel clasp having a hook of an ornamental covering fixedly mounted upon the hook and adapted to substantially conceal the hook from one side.

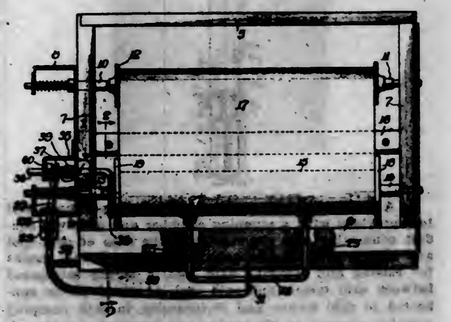
1,399,113. HAND-OPERATED IMPLEMENT. HARRY S. HALL, Ellsworth, Me. Filed Sept. 27, 1920. Serial No. 413,084. 1 Claim. (Cl. 294—57.)

A handle for a manually operated implement such as a shovel or a hoe, characterized by the provision of an enlarged knob-like grip near the implement end of the handle and in fixed relation thereto, said grip being of



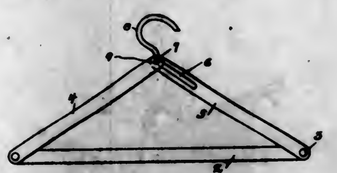
such size as to be conveniently covered by the hand of the user.

1,399,114. MUSIC-SHEET GUIDE. STILLWELL R. HARCOURT, Chicago, Ill., assignor to W. W. Kimball Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 21, 1921. Serial No. 453,913. 9 Claims. (Cl. 84—143.)



1. In a music sheet guide for player pianos and the like, the combination with a receiving spool having a movable head, of mechanism actuated by the portion of the music sheet roll on said receiving spool for pressing said movable head inwardly as the sheet is wound on said receiving spool.

1,399,115. FOLDING GARMENT-HOLDER. EUGENE DUGAL HARPER, Toronto, Ontario, Canada, assignor of one-half to Cecil George Clatworthy, Toronto, Ontario, Canada. Filed June 17, 1921. Serial No. 478,404. 3 Claims. (Cl. 211—13.)

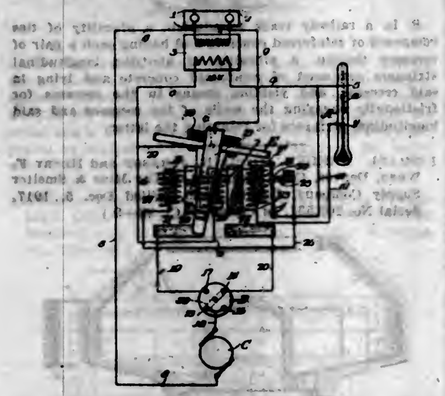


3. A folding garment holder comprising a horizontal bar; two side members pivoted at their outer ends, each to its associated end of said horizontal bar, and on the same side thereof; one of said side members being provided at its inner end with a longitudinal slot, and a hook provided with an eye held in said slot and in a hole formed in the inner end of the other said side members.

1,399,116. ELECTRICALLY-CONTROLLED SWITCH MECHANISM. WILLIAM GROVER HARTWIG, Chicago, Ill., assignor to Arthur Frantzen, Chicago, Ill. Filed July 9, 1917, Serial No. 179,557. Renewed Oct. 10, 1921. Serial No. 506,917. 7 Claims. (Cl. 172—268.)

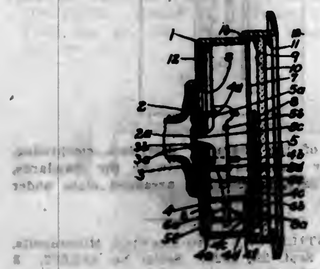
1. In a system of electric motor control, in combination with the motor, an electro-magnetically operated switch

mechanism provided with contacts and connections to control the supply of current to said motor, energizing circuits for controlling the electromagnetic operation of said mechanism, devices operated by said mechanism to control said circuits, so that operation of said mechanism opens one circuit and closes another, and means for controlling said circuits to cause the operation of said devices and said motor, said means including electrically controlled contacts in one of said circuits, said motor having a switch operated thereby to automatically control the supply of operating current thereto, cooperating with said mechanism and said means to automatically control the starting and stopping of said motor.



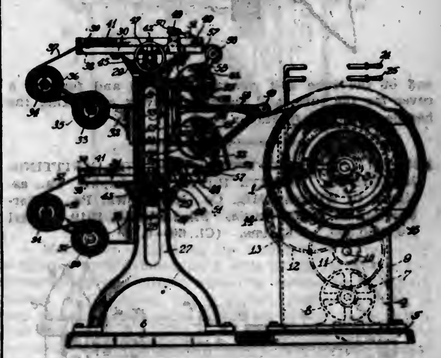
2. In a system of electric motor control, in combination with the motor, an electro-magnetically operated switch mechanism provided with contacts and connections to control the supply of current to said motor, energizing circuits for controlling the electro-magnetic operation of said mechanism, devices operated by said mechanism to control said circuits, so that operation of said mechanism opens one circuit and closes another, and means for controlling said circuits to cause the operation of said devices and said motor, said means including electrically controlled contacts in one of said circuits, comprising a switch to connect said mechanism with said motor, said switch being operated by the motor itself to automatically stop the operation thereof, means to supply current of relatively high voltage through said switch to operate said motor, and means to supply current of relatively low voltage to operate said mechanism.

1,399,117. PRESSURE-GAGE. HERBERT HASTINGS, Brighton, N. Y. Filed June 3, 1919. Serial No. 301,472. 17 Claims. (Cl. 73—110.)



1. In a pressure indicating device, a case provided with a pressure chamber, a flexible diaphragm closing one end of said chamber, an indicator stem journaled in parts of the device and provided with a helix and an indicator, a lever pivotally supported in parts of the device and contacting with the diaphragm and adapted to oscillate the helix, said lever being non-flexible in the direction of its motion but provided with a portion flexible in a plane perpendicular thereto between its support and the helix.

1,399,118. TIRE-BUILDING MACHINE (STATIONARY.) WALTER H. HERMANN, Lancaster, Ohio, assignor to The Herman Tire Building Machine Company, Columbus, Ohio, a Corporation of Ohio. Filed Dec. 26, 1918. Serial No. 268,402. 4 Claims. (Cl. 154—10.)



1. A tire building machine comprising stationary uprights, superposed guide tables carried thereby, superposed stock supporting means at the rear ends of said tables and over which the stock extends in lateral parallel planes, and a tension roller supported by said uprights adjacent the front ends of said tables and maintaining the stock taut.

1,399,119. MACHINE-GUN. LLOYD EARL HODGE, Glendora, Calif. Filed Sept. 26, 1919. Serial No. 328,612. 21 Claims. (Cl. 89—33.)

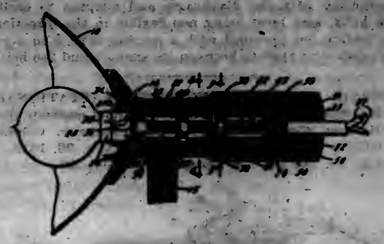


1. In a machine gun, a frame, a barrel attached thereto, a firing pin held therein, an operating member for said pin, rotatable cartridge injecting and ejecting means intermediate said pin and said barrel, and normally spaced clutch means for operably connecting said operating member with said injecting and ejecting means.

1,399,120. SPOTLIGHT. EARL H. HOWARD, Los Angeles, Calif., assignor to Gilfillan Bros. Smelting & Refining Company, Los Angeles, Calif., a Corporation of California. Filed Aug. 14, 1919. Serial No. 317,427. 6 Claims. (Cl. 178—328.)

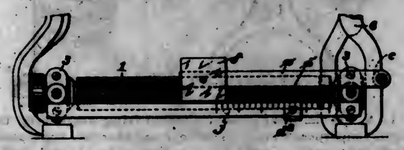
1. In a connector and switch device of the character described, a tube, relatively stationary blocks in the tube and spaced apart, connector members extending through the blocks and providing contacts on their adjacent faces, a rotatable contact block between the two stationary blocks, a connector member extending through the rotata-

ble block and providing contacts adapted to engage the stationary block contacts, a hollow handle fitting over one



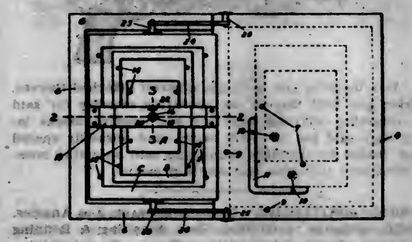
end of the tube and rotatable thereon and forming a cover for the tube, and means rotatively connecting the handle with the rotatable block.

1,399,121. TAKE-UP MECHANISM FOR KNITTING-MACHINES. KENNETH HOWIE, Philadelphia, Pa., assignor to Wildman Mfg. Co., Norristown, Pa., a Corporation of Pennsylvania. Filed Mar. 3, 1919. Serial No. 280,895. 5 Claims. (Cl. 66—9.)



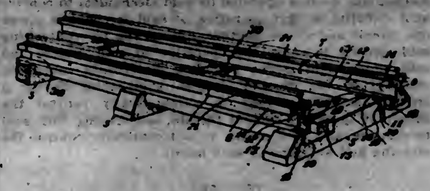
1. In combination in a takeup for knitting machines, a pair of takeup rolls, a movable support therefor, driving means for the takeup rolls including a clutch, a connection from the movable takeup support for controlling the clutch and adjustable gravitating means for exerting pressure to vary the driving action of the clutch according to the demands of the work, said adjustable gravitating means including a weight, a pivotally mounted beam carrying the weight and exerting pressure upon the movable takeup support and through it upon the driving clutch, said beam extending in a plane substantially parallel with the takeup rolls.

1,399,122. PRINTING-FRAME. CHARLES E. JACKSON, Minneapolis, Minn. Filed Mar. 8, 1921. Serial No. 450,689. 6 Claims. (Cl. 101—391.)



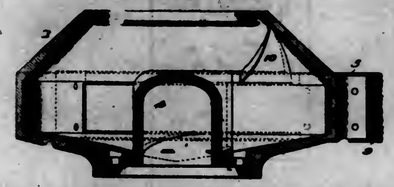
1. A device of the class described consisting of a base adapted to support a card on one side thereof, an ink pad on the other side of the base, means for slidably securing the pad to the base, a printing device adapted to rest on either of said sides, and means for connecting the device to the board so that the former will be caused to rest in similar positions on either side of the latter, as desired.

1,399,123. RAILWAY-RAIL SUPPORT. PETER JARNOWSKI, Chicago, Ill. Filed Sept. 10, 1921. Serial No. 499,730. 9 Claims. (Cl. 238—25.)



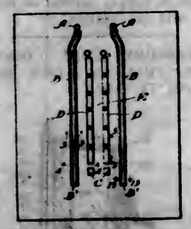
8. In a railway track foundation, a plurality of ties composed of reinforced concrete and having each a pair of recesses therein, a plurality of abutting longitudinal stringers composed of reinforced concrete and lying in said recesses, and yielding means in the recesses for frictionally engaging the walls of the recesses and said longitudinal stringers for retaining the latter.

1,399,124. FEEDER. OSCAR H. JOHNSON and HENRY F. WEBB, Denver, Colo., assignors to The Mine & Smelter Supply Company, Denver, Colo. Filed Dec. 5, 1917. Serial No. 205,531. 4 Claims. (Cl. 83—9.)



1. A drum feeder the major portion of which is in a single casting, having openings at opposite ends and one in the periphery and provided with an integral, internal scoop and also provided internally with a wing which is flared out toward the receiving end opening of the drum and so arranged that it collects all of the material in the drum guiding and working it into the inside scoop and an external scoop detachably secured over the peripheral opening.

1,399,125. RESTAURANT-FIXTURE. PHILLIP D. JONES, Los Angeles, Calif., assignor of one-half to Clyde Van Hoose, Los Angeles, Calif. Filed Feb. 19, 1920. Serial No. 359,994. 19 Claims. (Cl. 186—1.)



1. A fixture of the character described, comprising, standards, cover plates carried between the standards, and receptacle carrying brackets arranged close under the cover plates.

1,399,126. VENTILATOR. OTTO KRAWIEN, Minneapolis, Minn. Filed Sept. 29, 1920. Serial No. 413,537. 8 Claims. (Cl. 98—27.)

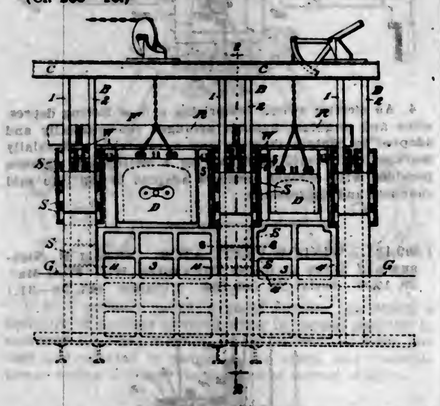
3. A device of the character described comprising a body member open at its ends, longitudinally extending

ribs formed inwardly of the body member, a reticulated casing disposed within the body member, said casing being positioned in spaced relation to the inner wall of the body member by said ribs to provide air passages, and a detachable air deflector and closure member for one end of the casing, whereby the air is directed exteriorly of the reticulated casing, said deflector being substantially



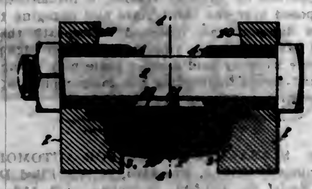
concavo-convex in cross section, said convex surface serving to deflect the air entering the casing, said concave surface extending toward the outlet end of the casing whereby air endeavoring to enter the casing through the outlet end is accumulated in the concave portion and withdrawn by suction of the air passing through the outlet end of the body member.

1,399,127. BUCKSTAY-SHOE. FRED E. KLING, Youngstown, Ohio. Filed June 19, 1920. Serial No. 390,256. Renewed Aug. 22, 1921. Serial No. 494,875. 6 Claims. (Cl. 263—46.)



1. In a furnace construction, the combination with the furnace wall, of a buckstay spaced from said wall and loosely carrying a series of wall contacting shoes each having a limited area of contact with the buckstay, and an extended area of contact with the wall.

1,399,128. APPARATUS FOR USE IN MAKING CUSHION-TIRES. HENRY M. LAMBERT, Portland, Oreg. Filed Aug. 22, 1921. Serial No. 494,257. 6 Claims. (Cl. 18—38.)



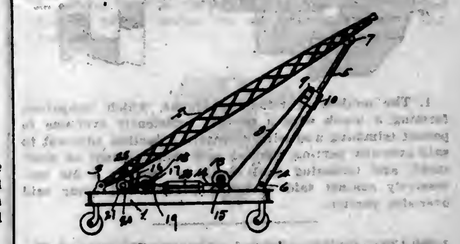
1. In apparatus for use in manufacturing cushion tires, a pair of side plates having rim receiving portions and opposing surfaces, short pins or lugs carried by each of said side plates and adapted to project into the area of the tire carcass those lugs on one side being opposite to those on the other side and spaced apart from the same, substantially as shown and for the purposes described.

1,399,129. DIMMER-SWITCH. HENRY FRED LAUB, Logan, Utah. Filed Apr. 5, 1920. Serial No. 371,242. 6 Claims. (Cl. 219—48.)



1. Means for controlling the illumination afforded by a lighting circuit embodying a main switch for closing and interrupting said circuit, operating means for said main switch, a resistance, and a switch element bridging a gap in said circuit to be controlled by the main switch and operable for cutting more or less of said resistance in series with the lighting circuit, said switch element being rotatable on an axis afforded by said operating means and said switch element being operable independently of the main switch.

1,399,130. CONVEYER. FRED G. LEWIS, Spokane, Wash., assignor to Rhoades Harvester Company, Spokane, Wash. Filed June 23, 1919. Serial No. 306,046. 2 Claims. (Cl. 198—8.)



1. The combination with the pivoted boom and its portable base, of an adjustable leg comprising telescoping sections pivoted respectively to the boom and said base, means within the outer section for holding the inner section in eccentric position to provide a space in the outer section, means for lifting the upper section and permitting it to slide into the lower section comprising a winding mechanism, a cable, and a pulley on the upper end of the lower section, said cable passing through said space over said pulley and passing between the telescoping sections, and secured to the lower end of the upper section within the lower section.

1,399,131. STEAM-SUPPLY MEANS FOR CYLINDERS OF RAILWAY-LOCOMOTIVES. SAMUEL H. LEWIS, Richmond, Va. Filed Nov. 9, 1918. Serial No. 261,823. 1 Claim. (Cl. 121—137.)

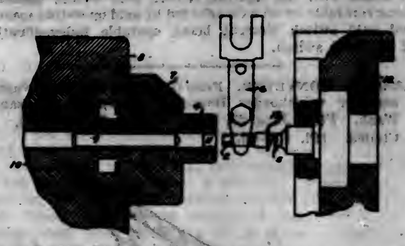
In apparatus of the character described, a conduit to supply steam to the cylinder or cylinders of a railway

locomotive, a valve casing arranged in said conduit, a valve in said casing to control the passage of steam through the conduit, a cylinder arranged near the valve, a sleeve in said cylinder forming a guide, a piston mounted to reciprocate within the cylinder having a stem reciprocable within said guide and connected with the valve to move it, a spring surrounding said stem and guide and en-



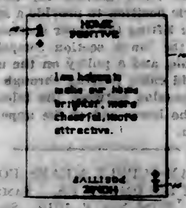
gaging the piston to oppose its movement in the direction in which said valve is opened, a nut mounted upon said sleeve and adjustable thereon to regulate the tension of the spring, and a control apparatus operated by a movable part of the locomotive and serving to supply fluid pressure to the cylinder in quantities varying directly with the speed of the locomotive.

1,899,132. METHOD OF TRIMMING BLANKS. Ransom W. Lindquist, Detroit, Mich., assignor to The Vitreon Company, Detroit, Mich., a Corporation of Michigan. Filed July 15, 1920. Serial No. 396,551. 12 Claims. (Cl. 10—20.)



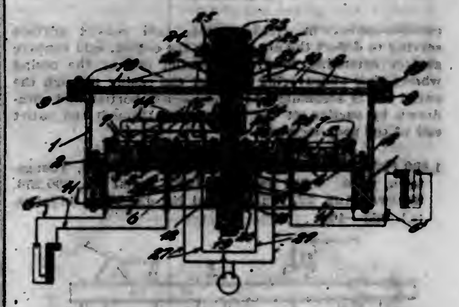
1. The method of trimming blanks, which comprises, forming a blank with a portion sufficiently over-size to permit trimming and with a centering portion adjacent to said over-size portion, placing said blank against an abutment, and trimming said blank by moving a die successively against said centering portion and along said over-size portion.

1,899,133. GAME. Emil L. Loeser, Watertown, Wis. Filed Feb. 24, 1920. Serial No. 361,060. 3 Claims. (Cl. 46—36.)



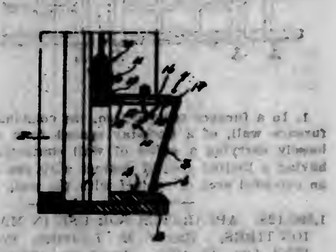
1. A game including a plurality of pairs of cards, one card of each pair having delineations thereon indicative of a destructive mental attitude and the other one of which pair having delineations thereon indicative of the opposite or a constructive mental attitude, the cards indicative of a destructive mental attitude when played being covered by a card indicative of a constructive mental attitude thus illustrating to the player how mental attitudes of one type or class may be counteracted by mental attitudes of the opposite type or class.

1,899,134. PYROMETER-SWITCH. Marcus T. Lothrop, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Oct. 6, 1919. Serial No. 328,675. 11 Claims. (Cl. 73—32.)



4. An electric switch comprising a base having depressions and annular channels arranged concentrically and adapted to contain mercury and a rotatable and axially movable shaft, said shaft having a switch arm thereon provided with contact members adapted to dip into said channels and depressions.

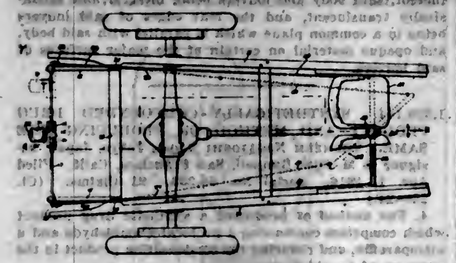
1,899,135. WINDOW-VENTILATOR. Nicholas B. Nielsen and Elsie G. Brant, Milwaukee, Wis. Filed Mar. 29, 1920. Serial No. 369,758. 2 Claims. (Cl. 98—81.)



2. A ventilator including a pair of end frames, a front plate supported by the end frames, a foraminous cover plate disposed over the front plate and engaging the end frames, a damper plate disposed underneath the cover plate and having one edge hinged to the inner edge portion of the cover whereby said damper plate may swing downwardly, and means for holding the damper plate at different angles with respect to the cover plate.

1,899,136. SIGNALING DEVICE FOR AUTOMOBILES. Alexander McLaren, Brooklyn, N. Y. Filed Dec. 22, 1920. Serial No. 432,588. 4 Claims. (Cl. 116—50.)

1. In a signaling device for automobiles, a transverse guideway at the rear of the automobile, a carriage provided with rollers engaging the guideway, a lamp support carried by the carriage, a vertical shaft under the control



of the operator, cables secured to the carriage, and means for connecting the cables with the said shaft.

1,899,137. PRESSURE-GUARD FOR WOODWORKING-MACHINES. James D. McMichael, Rochester, N. Y., assignor to American Wood Working Machinery Company, Rochester, N. Y., a Corporation of Pennsylvania. Filed Mar. 3, 1921. Serial No. 449,329. 2 Claims. (Cl. 144—251.)



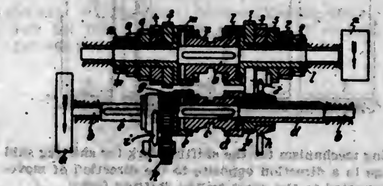
1. In a pressure guard, a guard member comprising a plurality of sections adapted when in normal position to surround a cutting member, one of the sections being pivoted and adapted to swing on the other, and yieldable means acting to retain the sections in normal relation.

1,899,138. SLEDGE-VELOCIPEDE. Prodromos Madjaroglou and Andreas Paulick, Dresden, Germany. Filed Aug. 16, 1918. Serial No. 250,258. 1 Claim. (Cl. 208—159.)



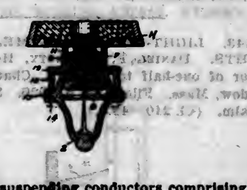
In a sledge-velocipede, the combination with the velocipede-pedals, of funnel-shaped brackets with open rear end fixed to the underside of said pedals and located to participate in the circular movement of the latter, and straight pickers pivotally mounted in said brackets so as to turn in a perpendicular plane thereto, and projecting in rearwardly and downwardly inclined direction from the open rear ends of said brackets, the turning-movement of said pickers being limited by the upper and lower walls of said brackets, substantially as and for the purpose set forth.

1,899,139. CHANGE-SPEED GEAR. Wilhelm Eduard Marx, Berlin-Spandau, Germany. Filed May 27, 1921. Serial No. 473,040. 1 Claim. (Cl. 74—58.)



A combination change-speed gear, comprising, in combination two change speed gears arranged side by side and comprising each a set of co-axial stepped cog-wheels; a pair of axially displaceable cog-wheels arranged outside of said set, and meshing with each other, means to rotate one of these latter wheels, the other of them being adapted to transmit the rotary motion to any of the wheels of the said set; two parallel shafts, one carrying the two sets of wheels and the other the rotated wheels of the two pairs; hollow cones connected with these rotated wheels; a shiftable double cone arranged between them upon the respective shaft; hollow cones connected with said set of wheels; a shiftable double cone arranged between them upon the respective shaft; and means to shift any one of the double-cones.

1,899,140. CONDUCTOR-CLAMP. Samuel S. Mathers, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Apr. 6, 1921. Serial No. 459,974. 6 Claims. (Cl. 191—43.)

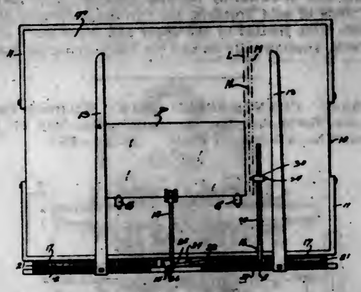


5. A device for suspending conductors comprising a pair of clamping members provided with means forming a recess, a rotatable supporting member mounted in the recess and engaging the clamping members to move the clamping members into engagement with the conductor, a holding member engaging the clamping members to hold the clamping members in a clamping position and having a hinging action therewith, rotating means engaging the supporting member to rotate the same and having means engaging means on the holding member to limit the longitudinal movement of the holding member and rotating means but permitting relative rotation of the holding member and rotating means and means on the supporting member to engage a hanger.

1,899,141. AUTOMATIC TYMPAN-GAGE. Jacob S. Merkins, Grand Junction, Colo. Filed Dec. 27, 1920. Serial No. 433,265. 16 Claims. (Cl. 101—414.)

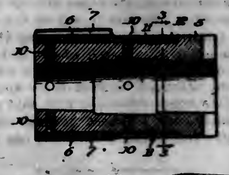
2. The combination with a platen, shifting fork for shifting a sheet upon the platen, an actuating mechanism upon

the shifting fork, of a side gage against which the sheet is shifted by the shifting fork, and means actuated by the



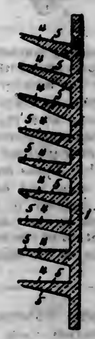
actuating mechanism for the shifting fork for shifting said side gage in a direction opposite to the direction of movement imparted to the sheet by the shifting fork.

1,399,142. REAMER-HEAD. WILLIAM L. MILLER, Madison, Wis., assignor to Gisholt Machine Company, Madison, Wis., a Corporation of Wisconsin. Filed July 16, 1919. Serial No. 311,205. 2 Claims. (Cl. 77—72.)



1. A reamer head, comprising a one-piece body member formed with longitudinal channels and with an annular channel extending transversely of and intersecting the inner ends of said longitudinal channels, a ring completely filling said annular channel, and cutter blades in said longitudinal channels having square inner ends abutting against one side of said ring.

1,399,143. LIGHT-DEFLECTING MEANS FOR HEADLIGHTS. DANIEL F. MORIARTY, Holyoke, Mass., assignor of one-half to Frank A. Champlin, East Longmeadow, Mass. Filed Oct. 5, 1920. Serial No. 414,730. 1 Claim. (Cl. 240—48.4.)



As an improved article of manufacture, a device, of the class described, comprising a body and a plurality of approximately wedge-shaped louvers extending with varying inclinations upwardly and rearwardly from the back side thereof, said body and louvers being integral and intrinsically translucent, and the rear edges of said louvers being in a common plane which is parallel with said body, and opaque material on certain of the major surfaces of said louvers.

1,399,144. SYNTHETICALLY-COMPOUNDED DRUG PRODUCT AND METHOD OF PRODUCING THE SAME. WILHELM NAGAJOSHI NAGAI, Tokyo, Japan, assignor to M. Dick Bunnell, San Francisco, Calif. Filed Apr. 1, 1916. Serial No. 88,223. 21 Claims. (Cl. 23—24.)

4. The method of producing a synthetic drug product which comprises condensing a protocatechualdehyde and a nitroparaffin, and reducing the condensation product in the presence of an aldehyde.

1,399,145. DOOR-CHECKING DEVICE. JOHN O. NASLIN, Seattle, Wash. Filed May 31, 1921. Serial No. 474,016. 6 Claims. (Cl. 16—82.)



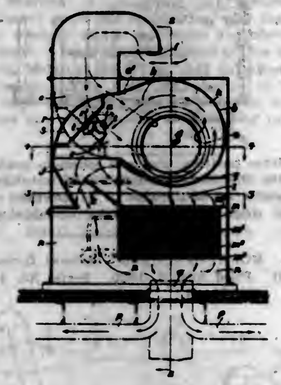
3. In a door check, a pivoted actuating member and a striker fixed thereon adapted to be actuated by a swinging part, a resilient check fixed to the swinging end of a pivoted strap movable with said member, normally suspended outside of the path of said part and adapted to be swung into its path, and means on said member adapted to engage said strap so as to swing said check into the path of said part only when the latter's movement is swift.

1,399,146. RADIATOR. RUDOLPH NAUJOKS, Los Angeles, Calif. Filed Apr. 17, 1919. Serial No. 290,736. 3 Claims. (Cl. 257—130.)



1. A radiator core comprising a plurality of water carrying elements each embodying two transversely corrugated walls, each of said walls being bent along a longitudinal medial line and the edges of said two walls being joined directly together to form thin front and rear edges for each element; the corrugations of the said two walls of each element being arranged in nesting relation so that the water course through the element is sinuous; adjacent elements of said radiator being assembled in opposing relation so that points of adjacent elements at the bends in their walls are in contact with each other, and the said adjacent elements being secured together by being secured at said points of contact.

1,399,147. HEATING, COOLING, AND VENTILATING APPARATUS. THOMAS NEILSON, London, England. Filed Jan. 17, 1920. Serial No. 352,228. 4 Claims. (Cl. 257—137.)



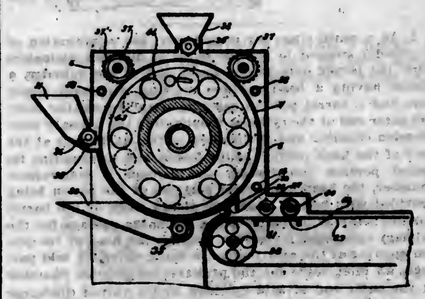
2. A heating, cooling and ventilating apparatus comprising an outer casing sub-divided in its upper part to form two chambers, a fan arranged in one chamber with the eye of the fan communicating with the other chamber, a diaphragm sub-dividing the lower part of said outer casing, a temperature varying means fixed beneath said diaphragm, a distributing duct below said temperature varying means, a communication from each of said chambers in the upper part of the outer casing, through said diaphragm and said temperature varying means to said distributing duct, and through said diaphragm direct to said distributing duct, a single regulating valve disposed to simultaneously control all of said communications, a communication for each of said chambers with the atmosphere, a control valve within each said chamber adapted to close either of its respective communications with atmosphere, or the communication with said temperature varying means, said control valves being connected for simultaneous movement and disposed so that one closes its respective communication to atmosphere while the other closes its respective communication to said temperature varying means.

1,399,148. HEATING, COOLING, OR VENTILATING APPARATUS. THOMAS NEILSON, London, England. Filed Feb. 10, 1920. Serial No. 357,733. 4 Claims. (Cl. 257—137.)



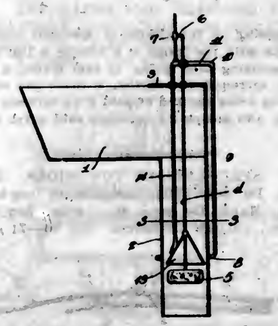
2. An apparatus of the type referred to having in combination a fresh air supply duct, a pivoted arcuate valve in said duct to form a conducting wall of said duct, a fan casing connected to said duct, with the eye of the fan toward said arcuate valve, and a casing comprising a vertical duct adjacent to and communicating with the fan casing, a temperature varying means, a mixing chamber below said temperature varying means, a wall of said vertical duct forming a wall of said mixing chamber, a hinged valve in said wall of the mixing chamber, a discharge control valve in the bottom of said mixing chamber, a communication between said vertical duct and one side of said temperature varying means and a communication with the other side of said temperature varying means and said mixing chamber, detachable walls to said casings, and means on said walls for controlling and circulating a medium through said temperature varying means.

1,399,149. OVEN. OLE C. NUUBSON, Duluth, Minn. Filed July 27, 1920. Serial No. 399,339. 2 Claims. (Cl. 107—60.)



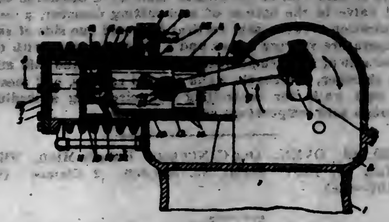
1. In an oven, an outer casing, said casing having a housing formed at one end thereof, a rotary oven supported within the housing, means disposed within the rotary oven for heating the same, means for regulating the temperature within the rotary oven, means for rotating the rotary oven, a plurality of hoppers having communication with the interior of the housing, and disposed in spaced relation with each other, a feeding roll associated with each hopper for feeding material to the oven, means for removing material from the oven, and means for conveying the material to a point remote from the oven.

1,399,150. FUNNEL. MERLE E. OTT, Clear Lake, Iowa. Filed Sept. 11, 1920. Serial No. 409,548. 2 Claims. (Cl. 226—32.)



1. A funnel comprising a body having a spout attached thereto and provided with a shelf above the spout, a rod centrally located in the spout, a float member attached to the lower end of the rod, the upper end of the rod being inserted through the shelf and equipped with a slide member, a guide ring encircling the spout, a rod parallel with the spout and attached to the guide member, a plate supported on the upper end of the rod, the said slide member embracing the said plate.

1,399,151. AIR-COMPRESSOR. DUNCAN M. FORBES and HARLEY M. DUNLAP, Battle Creek, Mich. Filed June 16, 1919. Serial No. 304,227. 2 Claims. (Cl. 230—62.)



1. In a multi-stage air compressor, the combination of a cylinder stepped to provide bores of different diameters with the larger bore at the outer end of the cylinder, a piston having a head portion coacting with said larger bore and a barrel portion coacting with the smaller bore, the outer end of the cylinder constituting the primary compression chamber and the portion of the larger bore at the rear of the head portion of the piston and surrounding its barrel portion constituting the secondary compression chamber, the head and barrel portions of the piston being provided with piston rings, the piston rings of the barrel portion being at its inner end, a discharge passage for the primary compression chamber through the head of the piston opening at the rear thereof, a check valve for said passage, an inlet valve for the primary compression chamber at the outer end of said cylinder, and a valved discharge connection for said secondary compression chamber at the rear end thereof.

1,399,152. MEANS FOR LUBRICATING LEAF-SPRINGS. JAMES I. RICHEY, Cincinnati, Ohio. Filed Nov. 15, 1920. Serial No. 424,232. 5 Claims. (Cl. 267—60.)



1. A housing of the character specified comprising in combination with the frame of a vehicle, a leaf spring and clips for securing said spring to said frame, a casing arranged to surround the spring, a cover for said casing, said housing being secured by said clips between the spring and frame, and means for securing said cover and casing together.

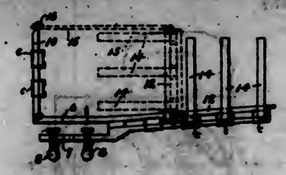
1,399,153. SPRING-INSOLE FOR SHOES. SAMUEL R. ROGERS, De Soto, Mo., assignor of one-half to C. Hohman Mahn, De Soto, Mo. Filed Jan. 24, 1921. Serial No. 439,390. 3 Claims. (Cl. 36—71.)



1. An insole comprising two plates hinged together at their rear ends, and yielding means interposed between said plates at points spaced from their rear ends.

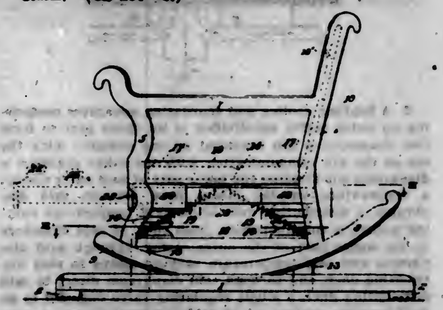
1,399,154. LUGGAGE-CARRIER. GILBERT A. ROUSE, Hastings, Nebr. Filed Aug. 26, 1919. Serial No. 319,520. 6 Claims. (Cl. 224—39.)

1. A luggage carrier of the class described comprising a bottom section having means for attachment to the running board of a vehicle, a foldable section hingedly connected thereto and adapted to project in alinement with the bottom section when unfolded and to engage a



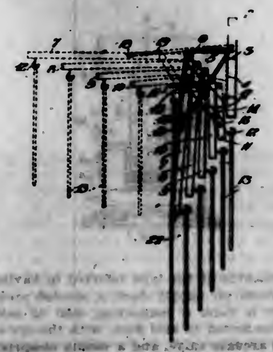
load in either position, and said members projecting laterally from the foldable section and arranged to prevent displacement of articles in a direction endwise of the carrier when in either extended or folded position.

1,399,155. ROCKING-CHAIR. ANTONI RUDNICKI, Chicago, Ill. Filed Aug. 3, 1920. Serial No. 400,985. 1 Claim. (Cl. 220—8.)



The combination with a rocking chair of a mounting base therefor, a platform supported on the mounting base including forward and rear upright standards and a rectangular plate upon said standards, an air bellows rigidly connected to the forward and rear ends of said plate in engagement with the chair bottom and spring tension means anchored to the four corners of said plate and the underneath center portion of said chair bottom for normally maintaining the chair in a level position.

1,399,156. FOLDING CLOTHESRACK. HENRY G. ROWEN, Rochester, N. Y., assignor of one-half to Charles L. Townsend, Rochester, N. Y. Filed Apr. 25, 1919. Serial No. 292,528. 6 Claims. (Cl. 45—118.)



6. In a folding clothes rack, the combination with a base board or support of a plurality of arms of progressively increasing length pivoted thereto in different horizontal and vertical planes for vertical swinging movement in the same plane, each provided with means for attaching a garment hanger thereto, the arm pivoted lowermost being the shortest; a connecting link pivoted to the upper and lower arms and coöperating with the intermediate arms whereby all of said arms are connected for joint movement, a latch engaging means on the uppermost pivoted arm, a latch pivoted to said base board above said uppermost pivoted arm and adapted to coöperate with said latch engaging means on said arm to hold all of said arms in a substantially horizontal or raised position.

1,399,157. SILENCER FOR AUTOMOTIVE EQUIPMENT. INGEMAR K. RYSTEDT, Dayton, Ohio, assignor of one-half to A. D. Miller, Dayton, Ohio. Filed Oct. 30, 1920. Serial No. 420,792. 4 Claims. (Cl. 170—172.)



1. In a device of the character described, a hub, a central opening therein, a circumambient channel beyond said central opening, a supply channel in alidable engagement with the first named channel and communicating therewith so as to form a housed passage-way for the passage of fluid from the supply channel to the first named channel, a blade upon the hub and a passage-way therethrough, one end of which communicates with the first mentioned channel from which it receives the fluid and from the other end of which it is discharged into the open air.

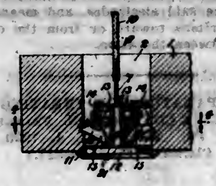
1,399,158. LOCK. SAMUEL SEGAL, New York, N. Y., assignor to Segal Metal Products Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Sept. 3, 1920. Serial No. 407,846. 6 Claims. (Cl. 70—15.)



1. In a lock, a locking bolt, a keeper, a support for said keeper, means for rigidly fastening said keeper to said support, a strip connected to said keeper, a movable keeper plate adapted to interlock with said locking bolt and means independent of said rigid fastening means and passing through said keeper plate and connecting said keeper and strip and adapted to frictionally hold said keeper plate intermediate said keeper and strip and to permit an adjustment of the position of said keeper plate without movement of said keeper or a loosening thereof.

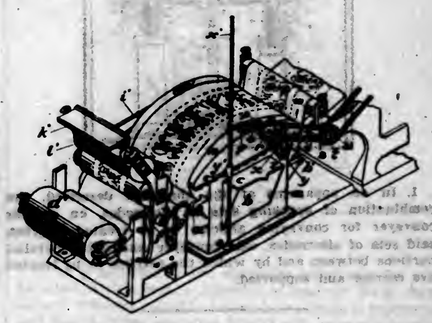
1,399,159. CYLINDER-LOCK. SAMUEL SEGAL, New York, N. Y., assignor to Segal Metal Products Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Dec. 10, 1920. Serial No. 429,627. 19 Claims. (Cl. 70—46.)

1. In a lock, the combination with a wall having an opening therein, of a cylinder associated with said wall and means engaging said cylinder and the wall of said



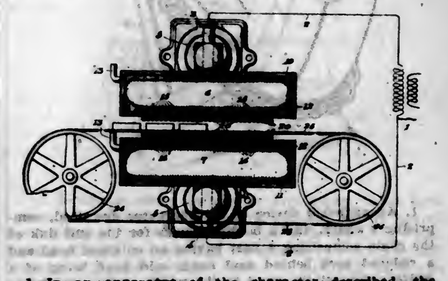
opening to lock the cylinder in position and to draw said cylinder within said opening.

1,399,160. PARAFFINING-MACHINE. HENRI A. SEVIGNE, Winthrop, Mass. Filed Dec. 22, 1916, Serial No. 138,349. Renewed Sept. 30, 1920. Serial No. 413,899. 9 Claims. (Cl. 91—51.)



1. The combination with a machine having means for causing a web of paper to travel, of a trough, a roll in said trough, stationary convex plates situated closely adjacent said roll at opposite sides thereof, means for supplying the trough with wax, and means for heating said trough, roll, and plates.

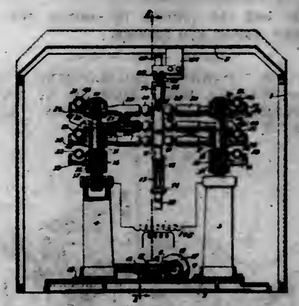
1,399,161. APPARATUS FOR TREATING ARTICLES BY DISRUPTIVE CONDUCTION. FRANKLIN S. SMITH, Philadelphia, Pa. Filed Mar. 27, 1919. Serial No. 285,485. 4 Claims. (Cl. 175—311.)



1. In an apparatus of the character described, the combination of a plurality of sets of elastors and electrodes supported in opposing relation with respect to each other, posts for supporting each set of elastors, means for connecting the opposing posts supporting the said elastors, means for simultaneously adjusting the said opposing posts toward or from each other, an endless conveyer or conveying articles to be treated between

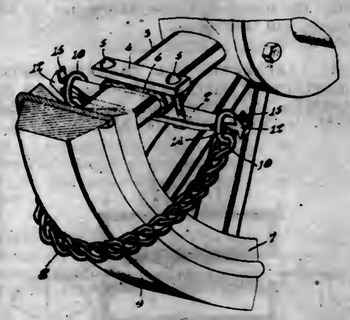
the said opposing sets of electrodes, said conveyer comprising portions which are arranged in parallel relation with respect to each other, said portions being situated intermediate the said electrodes, and means for moving one of said portions toward or from the other to vary the distance between the same.

1,399,162. APPARATUS FOR TREATING PRODUCTS BY DISRUPTIVE CONDUCTION. FRANKLIN S. SMITH, Philadelphia, Pa. Filed Sept. 4, 1920. Serial No. 408,356. 16 Claims. (Cl. 175—311.)



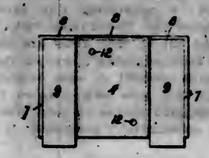
1. In an apparatus of the character described, the combination of opposing sets of electrodes, an endless conveyer for conveying articles to be treated between said sets of electrodes, said conveyer comprising parallel portions between and by which the articles to be treated are carried and supported.

1,399,163. ANTISKID DEVICE. GEORGE F. SNOW, Plymouth, Mass. Filed June 10, 1920. Serial No. 387,868. 2 Claims. (Cl. 152—2.)



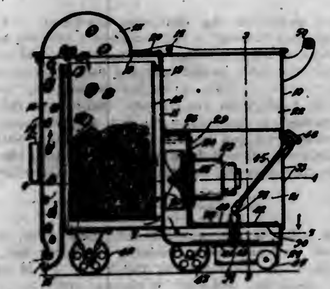
1. An anti-skid device of the character described, comprising a chain, and a holding device for the end link of the chain comprising a part having an enlarged head and a reduced neck behind said head, said head being of a width substantially equal to the width of the opening in said link and of a length slightly less than the length of said opening and having a notch in one end thereof, whereby the end link of the chain may be passed over said head with the edge of said next adjacent link passing through said notch, and whereby said head prevents said link from passing thereover in any other relationship thereto.

1,399,164. DOOR-BUFFER. HARRY N. SORENSON, Toledo, Ohio. Filed Apr. 18, 1921. Serial No. 462,199. 4 Claims. (Cl. 16—86.)



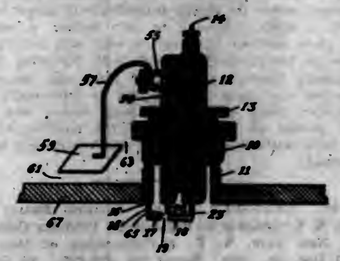
1. A door buffer having a socket member and a projecting member, the projecting member having a rigid block portion, a band looped around the nose of the block portion and having opposed yielding divergent leg portions spaced from the block and adapted to yieldingly coact with the opposed walls of the socket member when entering the same, and cushion blocks disposed between the rigid block and the yielding leg portions of the band.

1,399,165. CLEANING APPARATUS. IRA H. SPENCER, West Hartford, Conn., assignor to The Spencer Turbine Company, Hartford, Conn., a Corporation of Connecticut. Filed Dec. 17, 1917. Serial No. 207,412. 8 Claims. (Cl. 15—60.)



3. A cleaning apparatus comprising a portably mounted case having an inlet mouth in proximity with the surface to be cleaned, and having a compartment therein, an exhaust chamber and outlets from said chamber, a device for creating flow of air located within the case, and valves rigidly connected to control flow of air through said compartment and through said outlets and to shut off flow of air through either or a plurality of said passages.

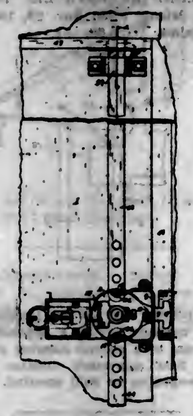
1,399,166. SPARK-PLUG FOR INTERNAL-COMBUSTION ENGINES. FRANKLIN WESLEY SPRINGER, Minneapolis, Minn. Filed Mar. 7, 1919. Serial No. 281,231. 2 Claims. (Cl. 123—169.)



1. A spark plug comprising an insulator and spark gap terminals forming an ignition spark gap, a metallic

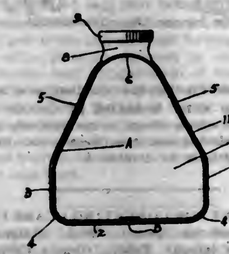
member carried by said insulator so as to form an igniting gap in conjunction with one of the spark gap terminals in close proximity to the spark gap, and means for varying the capacity of said member.

1,399,167. DOOR-FASTENING. PHILIP STEUERWALD, Milwaukee, Wis. Filed Jan. 28, 1918. Serial No. 214,191. 8 Claims. (Cl. 70—74.)



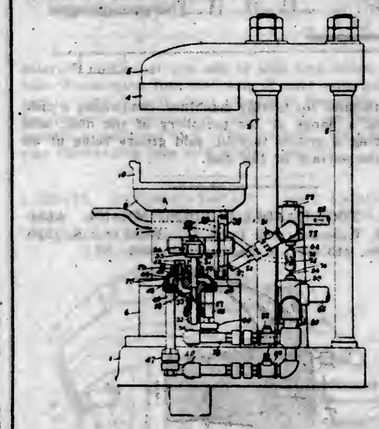
7. A door locking mechanism including the combination with the door, of a rotatable member pivotally connected with the inner face of the door and provided with a clamping arm, a relatively fixed door plate, stops on the door plate and rotatable member respectively, adapted for mutual engagement when the clamping arm is in clamping position, said arm projecting beyond the margin of the door for engagement with a bearing member, locking bars pivoted to the rotatable member, and projecting upwardly and downwardly therefrom respectively, and slotted keepers on the lintel and sill of the door frame adapted to receive the working ends of said bars, said working end portions of the bars being oblique to the axes of the body portions and provided with obliquely inclined flat surfaces extending to their extremities and adapted to engage with a wedging action upon the margins of the keeper slots to draw the door to a fully closed position simultaneously with the movement of said arm upon its bearing member.

1,399,168. LIQUID-CONTAINING CAN. WILLIAM J. TOWLE, St. Paul, Minn. Filed Dec. 9, 1920. Serial No. 429,534. 5 Claims. (Cl. 220—1.)



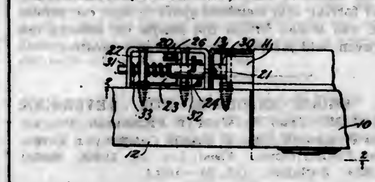
5. A can or container having a body formed of a flat bottom portion, lower vertical side walls, upper inclined side walls, a curved top uniting the upper portions of said upper side walls, said parts being formed of a single sheet of material with its ends united by a joint extending lengthwise of said bottom portion, end walls secured to said bottom portion and surrounded at their meeting edges with the side walls by a protecting rib substantially as described.

1,399,169. MACHINE FOR FORMING OIL-CAKES. RUSSELL A. TRACE, Dayton, Ohio, assignor to Buckeye Iron and Brass Works, Dayton, Ohio, a Corporation of Ohio. Filed Aug. 9, 1919. Serial No. 316,368. 20 Claims. (Cl. 138—17.)



1. In a machine of the character described, the combination, with a ram, a plurality of separate force chambers of different capacity adapted to coöperate separately and jointly in the operation of said ram, means to conduct liquid to said chambers and to coöperate therewith for the purpose set forth, an inlet valve operable to admit liquid under pressure to one of said chambers whereby the ram will be operated with an initial force, and a valve operable to admit liquid to another of said chambers whereby the pressure in said chambers will act jointly in the first chamber to further operate the ram with increased force.

1,399,170. BURGLAR-ALARM. PAUL V. VANDEVELDE, Corona, N. Y. Filed Jan. 14, 1920. Serial No. 351,406. 3 Claims. (Cl. 200—55.)



1. A burglar alarm switch for attachment to an ordinary lock comprising a metallic bracket having spaced end walls, one of which is provided with means by which the same may be secured at the outside of a latch or bolt casing, a plunger slidingly guided in said end walls and adapted to project through one of the end walls into the path of movement of the latch or bolt in the casing, a block of insulating material mounted on the bracket between the end walls, a contact finger carried by said insulating block, a binding screw for said contact finger, a transverse pin on the plunger and projecting into the plane of the contact finger, a spring engaged between one of the end walls of the bracket and a shoulder on the

plunger to thrust the plunger over and carry the transverse pin into engagement with the contact finger and a binding screw on the metallic bracket for carrying current to the plunger slidably supported thereby.

1,399,171. TURNTABLE FOR TALKING-MACHINES. ANTHONY VASSELLI, Newark, N. J., assignor, by mesne assignments, to General Phonograph Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 9, 1919. Serial No. 329,480. 6 Claims. (Cl. 274—39.)



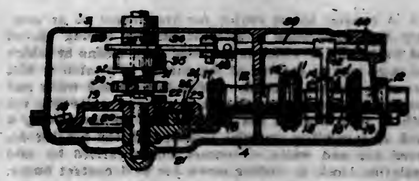
1. A turn-table for talking machines, comprising a disk, there being a flange at the periphery of the disk, said flange having a groove therein, said groove being at an angle to the surface of the disk.

1,399,172. TOOL-HANDLE-HOLDING MEANS. ALEXANDER S. VAUGHAN, Oak Park, Ill. Filed Oct. 8, 1920. Serial No. 415,492. 3 Claims. (Cl. 306—33.)



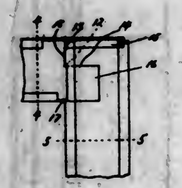
1. The combination of a tool head having a handle-eye therein, a handle extending into said eye, a pair of rigid substantially non-tapering pressure-transmitting members extending into a hole in the handle from the end thereof at the eye with their outer ends substantially flush with the end of the handle, said hole originally substantially corresponding to the shape of the pressure-transmitting members when inserted in the hole and providing a seat at the bottom of the hole for holding said members against further substantial movement into the handle, a wedge between said members adapted to move lawardly relative to them for forcing said members apart to bind the handle in the eye, and means within the handle for holding the wedge between said members in its binding position.

1,399,173. SHOCK-ABSORBER FOR REVERSING MECHANISM. FRED W. WAPPAT, Pittsburgh, Pa., assignor to Pittsburgh Gage & Supply Company, a Corporation of Pennsylvania. Filed Apr. 26, 1919. Serial No. 292,854. 3 Claims. (Cl. 64—100.)



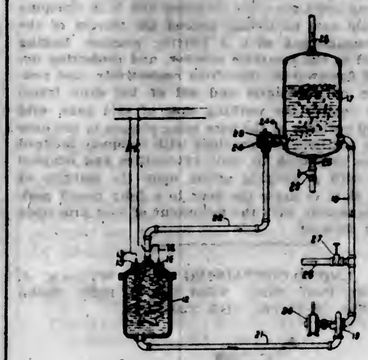
3. A shock absorbing means for reversing mechanism comprising a shaft, a gear loosely mounted thereon and provided with a radial web and peripheral flange forming an annular recess, a pocket in said recess, an arm rigidly mounted on said shaft, a pin on said arm, a spiral spring attached at its inner end and coiled around said pin on an axis parallel to that of said gear and seated in the pocket, the said arm lying adjacent the gear and partially housed in the said recess.

1,399,174. MOLDED RECEPTACLE. DANIEL D. WESSELS, Detroit, Mich. Filed Nov. 29, 1920. Serial No. 427,029. 6 Claims. (Cl. 68—31.)



1. In a metallic rim for molded receptacles, the combination with a member having a depending flange with an opening therein, of a second member extending transversely to said first mentioned member and having a tongue slidably engaging in said opening.

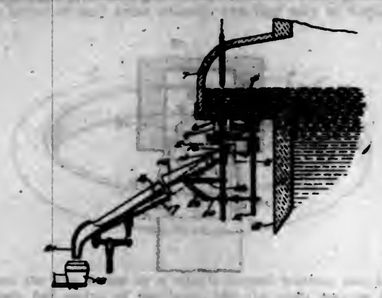
1,399,175. ELECTRICAL BOILER. WILLIAM MONROE WHITE, Milwaukee, Wis. Filed Dec. 28, 1919. Serial No. 346,865. 7 Claims. (Cl. 219—39.)



1. In an electrical boiler, the combination of a container within which the water is heated by electric current, a container within which steam is maintained, and means for forcibly circulating water between them, for the purpose and substantially as described.

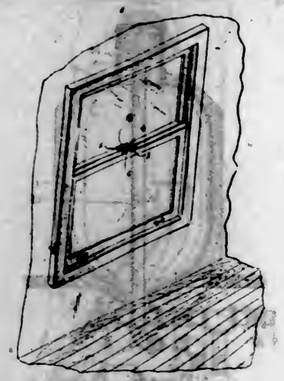
1,399,176. MEANS FOR CONVEYING GLASS TO MOLDS. JAMES WHITTEMORE, Detroit, Mich., assignor to The Owens Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Aug. 23, 1918. Serial No. 251,067. 7 Claims. (Cl. 49—55.)

5. The combination with means for supplying charges of molten glass, of an inclined trough or chute to which the glass is delivered, means for swinging the lower end of the trough up and down to different discharge positions,



and means for conveying the glass from said discharge positions to different mold positions.

1,399,177. WINDOW-LOCK. IGNACY WIERNIKOWSKI, New York, N. Y., assignor of forty-five per cent. to Henry Molenda, Olite, Mont. Filed Mar. 5, 1921. Serial No. 449,822. 1 Claim. (Cl. 292—218.)



A device of the class described comprising a pair of base members adapted to be secured to adjacent window frames, a bolt rotatably mounted on one of said members, a substantially T-shaped member rigid with the other of said members, the end of said bolt being forked, said forked end being engageable with said second member, the other end of said bolt being enlarged and having a compartment therein, a stem slidably mounted in said enlarged end and lying within said compartment, a head on said stem outside said enlarged end, a collar rigid to said stem near the lower end thereof, the lower end of said stem extending beyond said bolt, a spring normally urging said lower end of said stem out of said compartment, and recesses in said first-mentioned base member, adapted to receive said end of said stem.

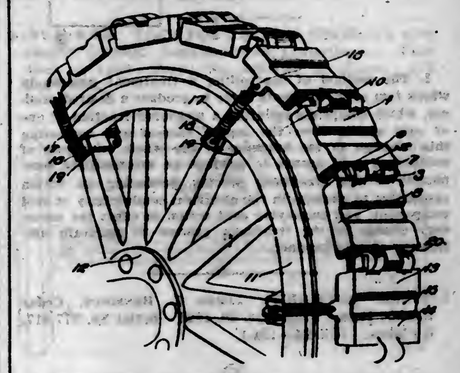
1,399,178. GAS-BURNER. AARON H. WOLFF, New York, N. Y. Filed Mar. 7, 1919. Serial No. 281,137. 2 Claims. (Cl. 158—110.)

1. A gas burner embodying therein a casing forming a mixing and distributing chamber, a plurality of short tubes communicating with and projecting from the top of said casing, a plurality of tubes extending vertically through said casing, beyond the top thereof and within said short tubes, being coterminous therewith, whereby an elongated jet opening is formed between each of said long and each of said short tubes, said long tubes opening to atmosphere below said casing, said casing having an



enlarged portion at one side of said long tubes, a mixing tube discharging into one end of said enlarged portion and in substantially axial alinement therewith, whereby the incoming combustible mixture has an unobstructed passage to adjacent each of the burners, and a gas supply pipe discharging into said mixing tube.

1,399,179. ANTISKID-TREAD. LOUIS ANGELO, Kansas City, Mo. Filed Mar. 17, 1921. Serial No. 453,017. 1 Claim. (Cl. 152—4.)



As a new article of manufacture, an antiskid chain link comprising a rectangular block having a rectangular flat face with a transverse groove and having straight tire-engaging flanges on its side edges and provided with a recess at one end and a tongue at the other, the recessed portion and the tongue projecting beyond the ends of the flanges of the block, the link consisting of cast metal, all the parts of which are integral.

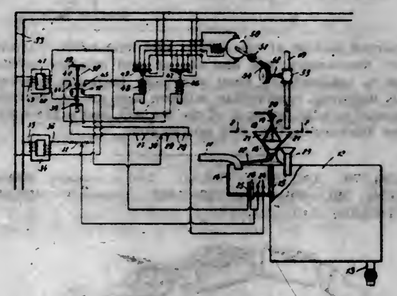
1,399,180. CORE FOR TIRE-CASINGS. FRED L. BAILEY and JOHN H. LA GRANT, Wichita, Kans. Filed Mar. 14, 1921. Serial No. 452,088. 2 Claims. (Cl. 152—5.)



2. A core for tire casings comprising a longitudinally extending fabric strap having ends arranged so as to permit of joining when brought together in manner specified, fabric layers in parallelism with said fabric

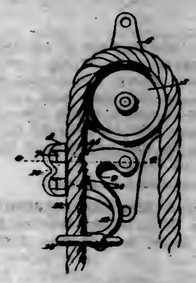
bolt and separated therefrom but united therewith by vulcanized rubber elements integral therewith and alternating wrappings of fabric and wire surrounding the aforementioned strap and fabric elements, the whole being vulcanized within rubber as a unit mass.

1,399,181. AUTOMATIC CONTROL OF REACTIONS. PERRY HADWICK BASCOM, Roundbrook, N. J., assignor to The Dorr Company, a Corporation of Delaware. Filed Dec. 26, 1919. Serial No. 347,645. 12 Claims. (Cl. 23—3.)



1. The method of controlling a treatment process in which two or more agents enter to produce a desired product, which comprises isolating a measured fraction of one of said agents from the supply thereof and subjecting this fraction to the influence of the whole or a part of another of said agents to produce an intermediate component of the treatment process, producing an action responsive to changes in the electrical conductivity of said component, and employing said action to effect the necessary change in the treatment process to maintain uniformity of said product.

1,399,182. ROPE-GRIP. JAMES Z. BENEDICT, Cedar Rapids, Iowa. Filed Apr. 28, 1920. Serial No. 377,417. 6 Claims. (Cl. 24—134.)



3. A rope-grip, comprising a cheek-plate, an attached, adjustable abutment, and an oppositely disposed, pivoted dog, having eccentrically disposed gripping teeth, and in advance thereof a hump or swell, projecting radially farther than the first gripping tooth, to lock the dog when past the dead center.

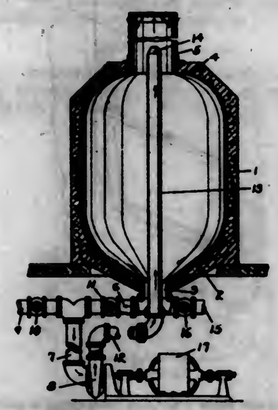
1,399,183. TENON-ANCHOR. EDGAR B. BICKER, St. Louis, Mo. Filed Apr. 12, 1920. Serial No. 373,319. 1 Claim. (Cl. 20—92.)

A tenon anchor, constructed of a single piece of material, and comprising legs having points for embedding in the tenon, a bridge having shoulders for engagement with the tenon, during the seating in the mortise, a plurality of flanges carried by the bridge each having a point for embedding in the mortise, there being a bend in the bridge



between said legs for projecting the points of said flanges laterally to embed in the mortise, and said flanges arranged to embed in the end of the tenon upon a seating of the tenon in the mortise.

1,399,184. PAPER-STOCK-TREATING MACHINE. MILTON C. J. BILLINGHAM, Kalamazoo, Mich. Filed Sept. 1, 1920. Serial No. 407,467. 3 Claims. (Cl. 92—20.)

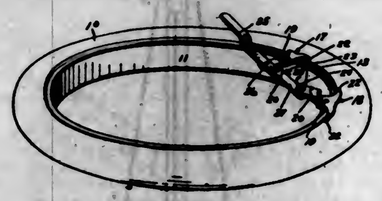


1. In a stock treating machine, the combination of a cylindrical tank disposed vertically and having a concave bottom with a central discharge, a standpipe mounted centrally on said tank and open thereto at its lower end, a pump having its intake connected to said tank discharge, and a discharge pipe for said pump disposed vertically of said tank through said discharge thereof and projecting into said standpipe, the relative capacities of said pipes being such that the stream of stock discharged from the pump discharge pipe impinges with the stock descending within said standpipe.

1,399,185. RIM CONTRACTOR AND EXPANDER. JULIUS BJORNSEN, Watertown, S. D., assignor to Bjornsen Manufacturing Company, Watertown, S. D., a Corporation of South Dakota. Filed Feb. 5, 1920. Serial No. 356,381. 3 Claims. (Cl. 157—1.)

1. A rim breaking tool comprising a pair of grapples, each comprising a head and an arm pivoted thereto and having opposing lateral legs and end faces providing a

laterally open unobstructed space to receive a rim flange, and a lever pivoted intermediately to one of said arms and a rigid link pivoted to the end of said lever and to the other of said arms whereby the tool may be imposed



upon the rim flange by a simple lateral motion, and by a single full swing of the lever, the rim ends may be first separated, then relatively displaced radially and then circumferentially by the operation only of the elements named.

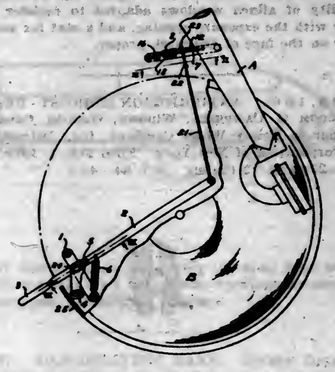
1,399,186. AUTOMATIC STOP FOR PHONOGRAPHS. ALEXANDER F. BRUNY, West Bend, Wis. Filed Oct. 15, 1919. Serial No. 330,718. 5 Claims. (Cl. 192—116.)



1. In a phonograph, the combination with the motor-board and swiveled tone-arm thereof, of a pivoted vibratory lever mounted on the motor-board, a vertically reciprocating plunger adapted at its lower end to brake upon a moving part of the subjacent motor, said plunger being mounted in an opening in the motor-board adjacent said vibratory lever and adapted to be engaged by said lever and thereby supported in its elevated inoperative position, a spring for normally maintaining said vibratory lever in engaged position with the said plunger, a strike-arm frictionally pivoted upon and carried by the tone-arm, and means positioned upon the motor-board adjacent the beginning of travel of the tone-arm and in the path of the striker-arm for deflecting or resetting the latter after its contact with and operation of the vibratory lever.

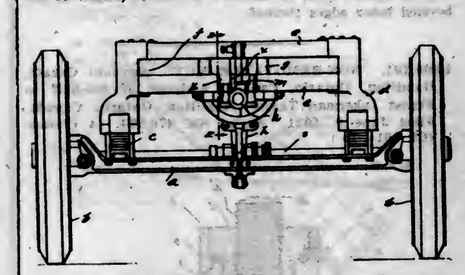
1,399,187. PHONOGRAPH-BRAKE. ALEXANDER F. BRUNY, Plymouth, Wis. Filed Nov. 15, 1920. Serial No. 424,316. 24 Claims. (Cl. 192—116.)

1. In combination, a movable element, a movable brake for said element, means movable and associated with said brake, gripping means frictionally engageable with said movable means to hold said brake in one position, and



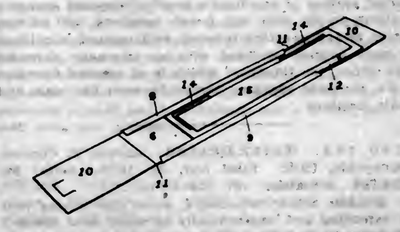
means for releasing said gripping means to permit movement of said brake to another position.

1,399,188. LOCK FOR TRAILER STEERING AND DRAFT GEARS. ORRA E. BYRON, Louisville, Ky. Filed Dec. 10, 1920. Serial No. 429,656. 5 Claims. (Cl. 280—33.5.)



3. In a trailer, the combination of a chassis frame provided with a bolt recess, a draw bar arranged to swing with respect to the chassis frame and also provided with a bolt recess, a steering arm provided with a pair of independently sliding bolts provided with spring means tending to shoot them into the bolt recess of the chassis frame and the draw bar, and selective means by which one or both bolts may be withdrawn from the bolt recess and held in such withdrawn position.

1,399,189. PHOTOGRAPHIC MASK. CHARLES H. CADY, Omaha, Nebr. Filed Oct. 19, 1920. Serial No. 418,062. 2 Claims. (Cl. 95—79.)



1. A photographic mask comprising a backing sheet having a longitudinal guideway and an exposure opening,

which is adapted to accommodate in succession a plurality of negative plates adjustable in the openings of mask proper adapted to slide in the guideway and having a plurality of aligned windows adapted to register successively with the exposure opening, and a seat for sensitized paper on the face of the mask proper.

1,399,190. ANTIFRICTION THRUST-BEARING. Malcom G. Campbell, Windsor, Ontario, Canada, assignor to Kelsey Wheel Company, Inc., Detroit, Mich., a Corporation of New York. Filed Feb. 1, 1919. Serial No. 274,422. 2 Claims. (Cl. 64—49.)



1. A thrust bearing, comprising parallelly arranged race members having complementary annular grooves in their adjacent faces, the inner edges of said race members being beveled, a series of balls arranged in the grooves between said race members, and a split ring of resilient material having a groove formed along its entire outer face and adapted to be sprung into engagement with said race members so as to embrace the entire length of the beveled inner edges thereof.

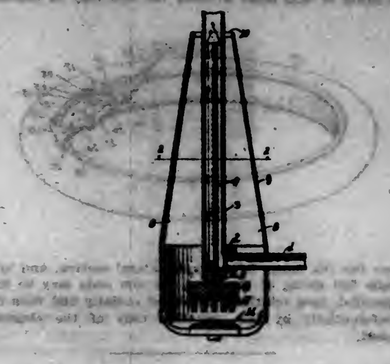
1,399,191. NON-REMOVABLE NUT. Antonio Casali, Hamilton, Ontario, Canada, assignor of one-half to Ernest Inkerman Tayler, Hamilton, Ontario, Canada. Filed June 9, 1921. Serial No. 476,274. 4 Claims. (Cl. 151—15.)



1. A nut comprising a male and a female member, a portion of the outer peripheral surface of the male member having threaded engagement with a portion of the infernal surface of the female member, opposed engaging shoulders on the male and female members, anti-friction bearing means co-acting between said opposed shoulders, the male member provided with an internally threaded axial orifice, the thread of which is of opposed direction to the aforesaid engaging thread between the male and female members.

1,399,192. WATER-HEATER. Alfred N. Clough, Sunnyvale, Calif. Filed Apr. 28, 1920. Serial No. 376,781. 4 Claims. (Cl. 122—367.)

1. A water heater including a water pipe having radially extending and longitudinally arranged heat conducting vanes mounted upon the exterior thereof, a heat conducting rod of less diameter than said pipe axially mounted therein and projecting therefrom, an open ended conical member supported on said vanes, and means for



heating the projecting portions of said rod, the inclosing pipe, and said vanes.

1,399,193. FLY-SWATTER. Clyde Grover Cox, Lawrence, Kans. Filed Aug. 27, 1920. Serial No. 406,811. 6 Claims. (Cl. 200—7.)

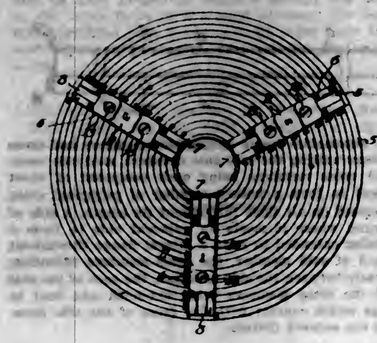


4. In combination with a closure frame and a closure therefor, a swatter pivoted to the closure and extending across the space between the closure and the frame and over the frame in the closed position of the closure, and means for swinging the swatter outwardly and against the closure.

1,399,194. UNIVERSALLY-ADJUSTABLE WORK OR TOOL HOLDER. Ira L. Cole, Madison, Wis., assignor to Gisholt Machine Company, Madison, Wis., a Corporation of Wisconsin. Filed Apr. 28, 1921. Serial No. 463,862. 1 Claim. (Cl. 279—123.)

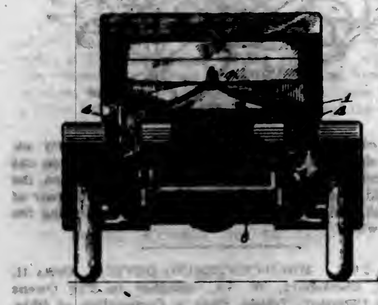
In an appliance of the character described, the combination of a carrier, a plurality of concentrically grouped radially arranged bases slidable endwise on said carrier and formed with alternating elevations and depressions which are located at different distances from the center or faces of the group on the several bases respectively, and a corresponding plurality of members removably attached to said bases and formed with alternating depressions and elevations intermitting with the elevations and depressions

of said bases and located on the several members at different distances from the inner ends thereof; the distances differences being measured by a fraction of the space



between the centers of adjacent elevations or depressions whose numerator is 1 and whose denominator is a numeral corresponding to the number of said bases or members.

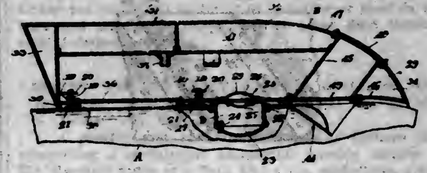
1,399,195. HEADLIGHT FOR AUTOMOBILES OR OTHER VEHICLES. Paul R. Collier, Philadelphia, Pa. Filed Jan. 6, 1921. Serial No. 435,328. 1 Claim. (Cl. 240—61.)



A headlight for a vehicle, a shaft on the vehicle adapted to have said headlight mounted rotatably thereon, a lever mounted on and operative in the vehicle, and means intermediate of said lever and headlight adapted to change the angularity of the latter, said headlight having a hub the latter being mounted on said shaft and having its bore provided with a segmental slot, and said shaft having on its side an angularly extending member adapted to freely enter said slot, the terminals of the latter forming spaced apart shoulders with either of which said angularly extending member may abut whereby the rotary movement of the headlight may be limited in either of the different angular positions in which it may be set.

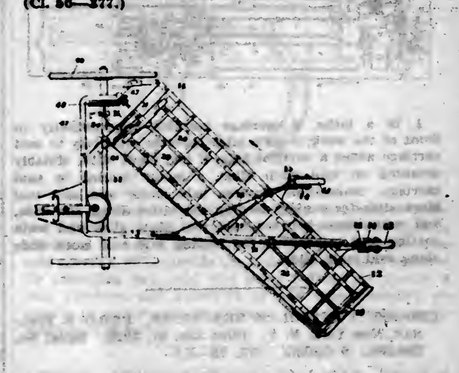
1,399,196. SUBMARINE RESCUE CRAFT. Albert John Collins, Amherst, Nova Scotia, Canada. Filed Mar. 10, 1921. Serial No. 451,141. 4 Claims. (Cl. 114—16.7.)

1. In combination with a submarine, a water tight rescue craft releasably engaged with the submarine, a connecting member between the craft and submarine adapted to permit the passage of passengers from the submarine to



the craft, having means for closing the same from within the craft, the said craft having side openings for oarsmen and cover plates covering the openings.

1,399,197. SIDE-DELIVERY RAKE. Joseph Dain, deceased, Moline, Ill., by Joseph Dain, Jr., administrator, Moline, Ill., assignor to The Dain Manufacturing Company of Iowa, Ottumwa, Iowa, a Corporation of Iowa. Filed July 10, 1919. Serial No. 309,867. 7 Claims. (Cl. 56—377.)



7. In a rotary rake, the combination of a diagonally-arranged frame, a wheeled support at its forward end with which said frame is pivotally connected, a ground-engaging support at the rear of said frame, means for adjusting said frame vertically relatively to said support, a rotatable reel journaled in said frame comprising two heads, a central shaft and a plurality of tooth-carrying bars extending between said heads, gearing carried by one of said heads and connected with the tooth-carrying bars for maintaining the rake-teeth in position, an adjusting lever connected with said gearing for turning the same to change the position of the rake-teeth, a movable device mounted on the frame for interlocking with the lever, means for rotating and independently adjusting the inner end of the reel comprising a vertically movable bearing, a pinion rotatably supported at a distance from said bearing, sliding and pivoted means interposed between and connected to said pinion and shaft, and a driving gear in mesh with said pinions.

1,399,198. ICE-LUG. Frank R. Danielson, Fairfield, Iowa. Filed Mar. 9, 1920. Serial No. 364,555. 2 Claims. (Cl. 301—44.)

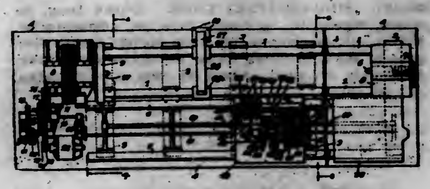
2. An ice lug including a body formed at its outer end portion with a hook to engage with a wheel cleat and provided at its inner end with a base disposed to rest

against a wheel rim supporting the lug and formed to coact with a fastening device securing the lug to the



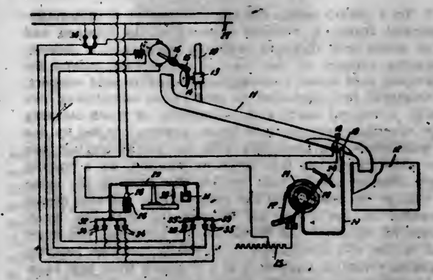
wheel rim whereby said fastening device will relieve the client of shearing stress upon the lug.

1,399,199. LATHE. HERBERT S. HADDS, Philadelphia, Pa. Filed Feb. 24, 1920. Serial No. 360,621. 5 Claims. (Cl. 82—2.)



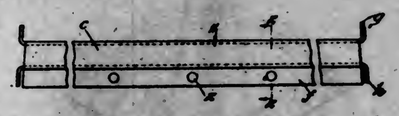
1. In a lathe, a carriage movable longitudinally in front of the work, a main slide movable relatively to said carriage about a vertical axis, a tool block slide, slidably mounted on said main slide, a motor carried by said carriage, connections between said motor and said tool block slide for rapidly feeding the latter along the slide, and connections between said tool block slide and main cutting feed mechanism for feeding said tool block slide along said main slide.

1,399,200. CONTROL OF REACTIONS. PHILIP E. EDELMAN, New York, N. Y. Filed Jan. 31, 1920. Serial No. 355,369. 9 Claims. (Cl. 23—3.)



1. The method of controlling a treatment process which comprises producing an action responsive to changes in the electrical conductivity of an appropriate component of the process, producing a second action responsive to changes in the temperature of said component, causing said second action to compensate said first action for changes in the electrical conductivity of said component occasioned by changes in the temperature thereof, and employing said first action thus compensated for temperature changes to effect the desired control of said process.

1,399,201. AUTOMOBILE FRAME MEMBER AND FRAME. STEPHEN L. FRENCH and STUART G. HAYES, Detroit, Mich., assignors to Hayes Motors, Detroit, Mich., a Corporation of Michigan. Filed Nov. 17, 1919. Serial No. 338,462. 5 Claims. (Cl. 280—106.)



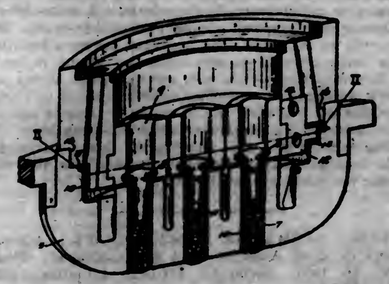
1. An automobile frame having side members and cross tie members uniting the said side members, said side members and cross members being each composed of sheet metal bent to form a hollow member of polygonal cross section closed on all sides throughout its length, a side of the polygon where it meets an adjacent side to form a corner being extended to form a lateral flange throughout the length of said member, the cross members extending transversely between the side members, the ends of the side faces of the cross members being extended and bent to form lugs which contact with the faces of the side members and are secured thereto.

1,399,202. CULTIVATOR. JOHN M. FLEMING, Edmonton, Alberta, Canada. Filed Dec. 6, 1920. Serial No. 428,549. 4 Claims. (Cl. 55—1.)



1. A cultivator comprising a frame, transversely extending shafts having crank ends, a driving wheel on one of the crank ends of one shaft, a furrow wheel on the crank end of another shaft, a guide wheel at the rear of the frame, and means for rotating the shaft carrying the driving wheel.

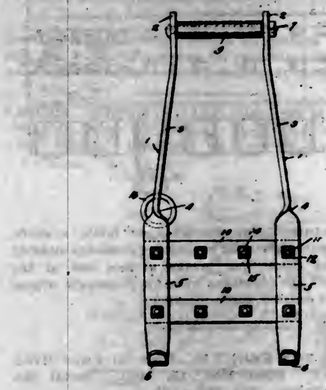
1,399,203. MOLD-CENTERING DEVICE. OPHA H. FLINT, Clarksburg, W. Va., assignor to The Owens Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 7, 1920. Serial No. 349,873. 1 Claim. (Cl. 49—65.)



The combination of a neck mold comprising horizontally separable sections, a body mold comprising horizontally

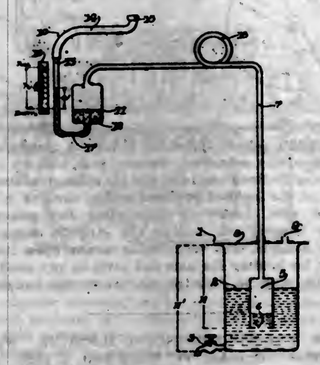
separable sections arranged to be brought together and surround the neck mold, each of said molds being provided with a plurality of mold cavities arranged to register with those of the other mold, and locking plates removably mounted on the neck mold and comprising legs or keys projecting radially beyond the neck mold at the inner faces of the mold sections, the body mold being provided with keyways in its inner faces to receive said keys and thereby prevent relative rotation of the molds.

1,399,204. YOKE. ANDREW J. FORSYTHE, Russiaville, Ind. Filed Apr. 11, 1921. Serial No. 460,171. 2 Claims. (Cl. 119—138.)



1. In a device of the class described, a frame made up of side bars having hook-shaped runners at their lower ends; a cross bar connecting the side bars, adjacent to the runners; prongs on the side bars and forming connections between the side bars and the cross bar; and a roller journaled between the upper ends of the side bars.

1,399,205. LEVEL-INDICATING APPARATUS. HERBERT H. FREY, Chicago, Ill.; Hannah H. Frey administratrix of said Herbert H. Frey, deceased. Filed May 10, 1918, Serial No. 233,743. Renewed Sept. 2, 1921. Serial No. 498,085. 8 Claims. (Cl. 73—54.)



2. In combination, a tank for liquid of specific gravity less than unity, a chamber having an opening adjacent its lower end and communicating with the liquid of the tank, a conduit communicating with the interior of the chamber, said conduit having a trap in the form of a U-shaped bend therein and liquid of a specific gravity of substantially 2 lying in said trap, said trap having indicating means for indicating in terms of quantity or level in the tank and means for forcing air or other fluid through said U-shaped bend.

1,399,206. POULTRY-GRIT. JOHN F. GALLAGHER, Chicago, Ill. Filed Sept. 29, 1919. Serial No. 327,271. 4 Claims. (Cl. 167—10.)

1. A poultry grit of granulated porous furnace slag comprising a constituent assimilable portion soluble in the digestive fluids of a fowl, and a non-assimilable gritty silicious portion substantially insoluble in said fluids.

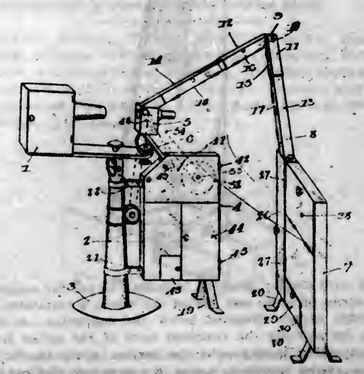
4. A poultry grit comprising the combination of an assimilable constituent portion including lime, sulfur and iron in combinations soluble in the digestive fluids of a fowl, and a constituent silicious portion substantially insoluble in such fluids.

1,399,207. SPRING-RING. CHARLES A. GOODEY, Providence, R. I. Filed Apr. 20, 1920. Serial No. 375,390. 1 Claim. (Cl. 24—239.)



A spring ring comprising a tubular ring-shaped member having a portion removed to provide an opening thereinto, a bolt member slidable in said tube to close said opening, an operating projection on said bolt adjacent its extending end, said bolt being reduced to provide a stop shoulder, and a portion of said tube extending inwardly to engage said shoulder to limit the closing movement of said bolt.

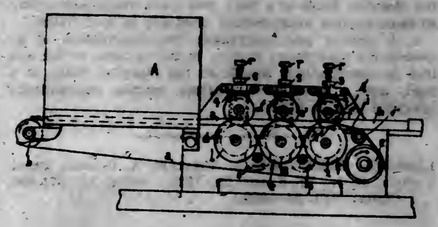
1,399,208. MOVING-PICTURE APPARATUS. FRANK H. GRABHORN, Milwaukee, Wis. Filed May 15, 1920. Serial No. 381,645. 5 Claims. (Cl. 88—17.)



1. A moving picture machine comprising a projecting apparatus, a film delivery apparatus, and a film receiving

operation, said delivery and receiving apparatus having separated compartments through which the film passes and arranged to allow the temporary accumulation of a supply of film upon either side of the projecting apparatus.

1,399,209. CIGARETTE-MACHINE. MAX CLEMENS GRAHL, Dresden-Löbtau, Germany, assignor to Universelle Cigaretten-Maschinen-Industrie System Otto Bergströsser Aktiengesellschaft, Dresden-Löbtau, Germany. Filed Dec. 16, 1913. Serial No. 806,962. 1 Claim. (Cl. 131—43.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



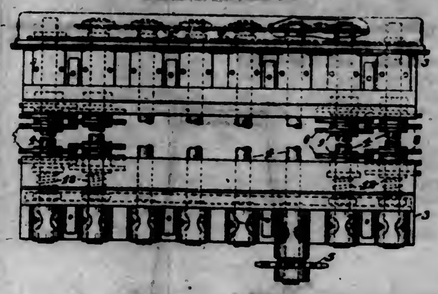
A cigarette machine comprising a traveling band, means for feeding the tobacco onto said band, a series of grooved rollers disposed in pairs, traveling in the same direction as the band at their points of contact therewith and operative to shape said band around the tobacco and form it into a rod, a tube having a papered extension projected into the angle of the bight of the last pair of rollers, a concave guide adapted to hold said band in contact with said tapered extension, and a rotary grooved guide roller disposed under said band adjacent to said tube.

1,399,210. CARD-DISPLAY MECHANISM. JOSEPH GUMESS and ANTHONY SCHNEIDER, East Moline, Ill. Filed Mar. 23, 1921. Serial No. 454,621. 15 Claims. (Cl. 40—36.)



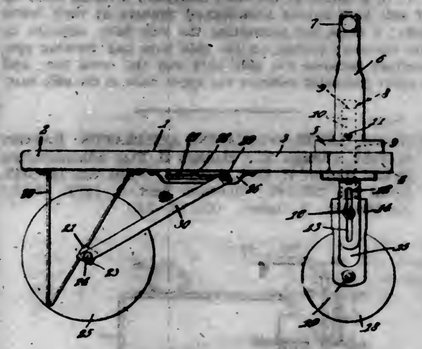
1. A card display machine including means for supporting a series of cards one behind the other, a vertically reciprocable carrier disposed below the supporting means, means for shifting the rearmost card of the series from the supporting means onto the carrier when the latter is in a raised position, means for lowering the carrier and card and simultaneously shifting the card on the carrier into a position at the front of the carrier and in a plane intersecting the front end of the supporting means, and means for then raising the carrier to a position where the card is in line with the supporting means and then shifting the card rearward onto the supporting means.

1,399,211. GRIZZLY-SCREEN. GEORGE HOLLINGSHEAD, Mayville, Wis. Filed Apr. 26, 1921. Serial No. 464,551. 5 Claims. (Cl. 83—93.)



1. In a structure of the character set forth, a shaft, a plurality of spaced material supporting elements slidably mounted in the shaft, and means at one end of the shaft and outside the screening area for yieldingly urging all the elements on said shaft together.

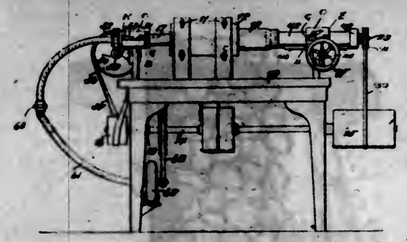
1,399,212. TOY VEHICLE. JOHN HICKMAN HYDE, Louisville, Ky. Filed Mar. 15, 1921. Serial No. 452,455. 3 Claims. (Cl. 208—165.)



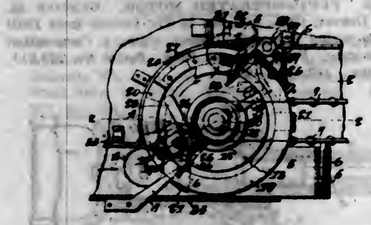
1. A child's vehicle including a body, a front steering wheel adjustably connected thereto, rear hangers on the body having inclined portions, a cross strip straddling and slidable on the inclined portions of the hangers, a wheel supported axle carried by said strip and coöperating with the hangers for holding the strip in engagement with the hangers, and coöperating means upon the axle and body for holding the axle and strip in any position to which they may be adjusted relative to the hangers.

1,399,213. CYLINDER-GRINDING MACHINE. WILLIAM H. JOHNSON, Brandon, Vt. Filed Sept. 4, 1920. Serial No. 408,335. 8 Claims. (Cl. 51—43.)

1. In a device of the type described, a hollow bar, means for rotating the bar, means for shifting the bar longitudinally, a member rotatably mounted within the bar, an abrasive wheel carried by said member and having a portion thereof projecting through an opening formed in the side wall of the bar, means for rotating said rotatable element and means for creating suction at the opening.

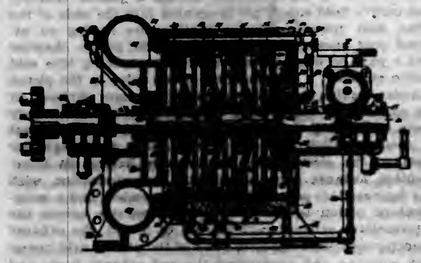


1,399,214. DEPTH-FILLED-GAGING MACHINE FOR CANS. JOHN KELLINGTON, Vancouver, British Columbia, Canada. Filed Jan. 22, 1920. Serial No. 353,231. 4 Claims. (Cl. 83—92.)



1. A means for separating from cans that are charged to a required depth all those that are charged above or below the required depth, said means comprising a table, means for conveying the cans on the table, means for gaging the depth of the material in the cans, and means for cutting out such cans as are above or below the desired depth of charge and means for operating all of said operative means.

1,399,215. STEAM-TURBINE. CHARLES V. KERR, Aurora, Ill., assignor to The American Well Works, Aurora, Ill., a Corporation of Illinois. Filed Sept. 1, 1917. Serial No. 189,520. 13 Claims. (Cl. 253—69.)



12. In an elastic fluid turbine, the combination of a series of annular sections, one or more nozzles constructed to convert pressure into velocity and arranged to deliver motive fluid radially inward to a like number of said sections wherein the pressure is lower than the critical pressure of said motive fluid, a governor valve, a governor valve case, having a discharge chamber, a conduit for motive fluid connecting the discharge chamber in said valve case with said nozzles, thereby putting the flow of motive fluid through said nozzles under control of the governor valve for said turbine by variation of initial fluid pressure.

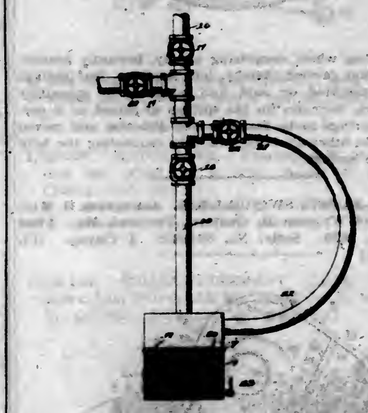
1,399,216. PROCESS FOR TREATING POTASSIUM-BEARING SILICATES. EPHRAIM LEVITT, Westmount, Quebec, Canada. Filed Dec. 27, 1920. Serial No. 433,438. 11 Claims. (Cl. 23—22.)

11. A step in the treatment of potassium bearing silicates which consists in treating such silicates with a flux containing boron trioxid.

1,399,217. PROCESS FOR DECOMPOSING CLAYS. EPHRAIM LEVITT, Westmount, Quebec, Canada. Filed June 11, 1921. Serial No. 476,898. 7 Claims. (Cl. 23—13.)

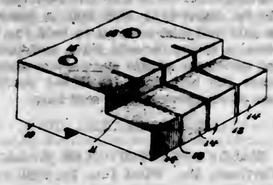
1. A step in the decomposition of clay which consists in treating the clay with a flux containing boron trioxid.

1,399,218. OIL-BURNER. ALVA ARTHUR LINDLEY, Spokane, Wash. Filed June 28, 1920. Serial No. 392,245. 5 Claims. (Cl. 158—73.)



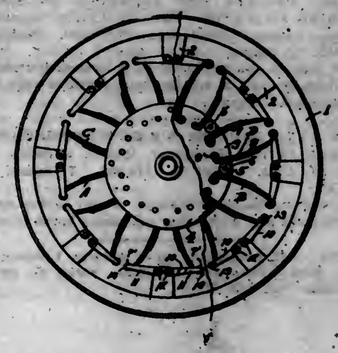
1. A fuel oil burner comprising a relatively rectangular body having a sloping forward portion at the top thereof and a passage provided with a burner orifice having diverging side walls and an inclined bottom wall forming an elongated passage, and a hinged cover for said sloping portion over said passage and adapted to be regulated according to the temperature or pressure of the heating plant.

1,399,219. METAL TOOL. EVRAH C. LIPPS, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Original application filed Nov. 9, 1917, Serial No. 201,143. Divided and this application filed Jan. 22, 1920. Serial No. 353,350. 9 Claims. (Cl. 29—95.)



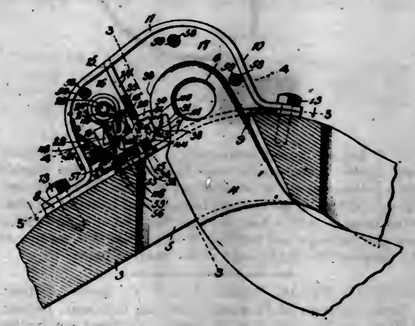
1. An article of manufacture comprising a machinery steel body having a seat at one end thereof with a transverse slot, and a piece of high speed steel on said seat extending across said slot and welded to said body.

1,399,220. SPRING-WHEEL. DANIEL J. MCCLUSKEY, Berkeley, Calif. Filed Nov. 24, 1919. Serial No. 340,121. 2 Claims. (Cl. 152—28.)



1. A spring wheel comprising a felly, inwardly projecting fixed lugs carried thereby, hub members, leaf springs pivotally mounted on said hub members in oppositely placed pairs, fulcrums for the springs so placed as to permit said springs to be flexed in one direction and moved freely in the other direction and links connecting the felly lugs to the springs.

1,399,221. SAFETY SWITCH-LOCK. ALEXANDER H. MACMINN and WILFORD H. GRAHAM, Portland, Me. Filed May 15, 1920. Serial No. 381,622. 5 Claims. (Cl. 70—128.)



2. In combination with a manipulating arm having a passage therethrough, a lock casing on said arm over said passage, a spring-actuated lock bolt in said casing, a hasp or staple to be engaged by said bolt, a plate pivotally mounted on said bolt and adapted to hold the bolt in its locked position, a spring for said plate, and means to permit sufficient movement of said plate independently of said bolt to release the bolt from its locked position before moving it out of engagement with said hasp.

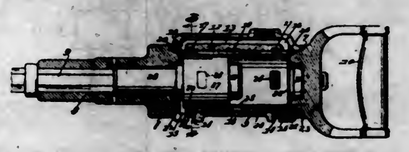
1,399,222. WALL CONSTRUCTION OR WALL. JOHN H. MAGEE, Carthage, Mo. Filed June 11, 1919. Serial No. 303,344. 2 Claims. (Cl. 72—33.)

1. In a wall construction, a skeleton frame formed of two sets of laths, a filler of relatively large mineral aggregates arranged within the space between the two sets of laths, said aggregates having their surfaces coated with a cementitious material, the filler being of such size as to produce voids throughout the wall but being bonded at



the meeting edges of the aggregates, and an outer coating of cementitious material secured to the exposed surface of the laths, and engaging the surface of the filler.

1,399,223. FLUID-OPERATED MOTOR. GUSTAVE M. NELL, Denver, Colo., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo., a Corporation of Delaware. Filed Mar. 29, 1918. Serial No. 225,511. 8 Claims. (Cl. 121—29.)



1. In apparatus of the character set forth, the combination with a cylinder member, of a continuous sleeve valve movably mounted within the cylinder member, a piston reciprocating in the cylinder member, means controlled by the sleeve valve for supplying motive fluid to the piston for actuating it, means for maintaining pressure in opposite directions against the valve, and means controlled by the piston on its movement for increasing the fluid pressure alternately in opposite directions against the valve to shift the same.

8. In apparatus of the character set forth, the combination with a cylinder member having a piston chamber and motive fluid supply ports opening into the ends of the same, said cylinder member furthermore having an exhaust port opening into the ends of the piston chamber and a port between the end ports also opening into said piston chamber, a reciprocatory sleeve valve in the piston chamber having oppositely disposed pressure surfaces at its ends, said sleeve valve operating across the supply ports and having end exhaust ports movable into and out of communication with the exhaust ports of the cylinder member, the sleeve valve furthermore having an intermediate exhaust port in constant communication with the intermediate port of the cylinder member, and a reciprocatory piston in the sleeve valve movable across the intermediate exhaust port thereof to permit the exhaust therethrough from opposite sides of the piston, said piston also covering and uncovering the end exhaust ports and thereby building up pressure against the pressure surfaces of the sleeve valve to move the same in opposite directions.

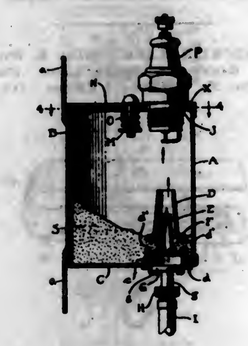
1,399,224. SELF-LOADING PISTOL. HEINRICH ORTGIES, Erfurt, Germany. Filed Apr. 1, 1919. Serial No. 286,815. 4 Claims. (Cl. 42—7.)

1. In a firearm, a frame including a hollow handle; a pair of side covers removably engaged with the handle, each cover having an internal recess formed in it; and



a locking bolt pivoted within the handle and having projecting portions engageable in said recesses.

1,399,225. DEVICE FOR CLEANING SPARK-PLUGS. AUGUSTE V. PELLET, Chicago, Ill., assignor to Pellet Magneto Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 18, 1920. Serial No. 366,880. 4 Claims. (Cl. 51—8.)

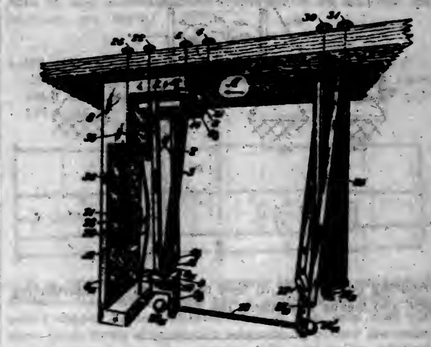


1. A spark plug cleaner comprising a receptacle, a granular abrasive material within said receptacle, a blast nozzle in said receptacle, means for introducing air under pressure into said nozzle, to cause a blast of air and abrasive material to be discharged therefrom, said receptacle having an opening disposed in line with the axis of said nozzle, and a movable plate carried by said receptacle, said plate provided with openings of a plurality of sizes adapted to be brought into registry with the aforesaid opening, substantially as described.

1,399,226. ELECTROTHERMAL RELAY. WILLIAM A. RHODES, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed May 14, 1919. Serial No. 297,068. 11 Claims. (Cl. 200—88.)

1. A time element translating device comprising a

resilient member fixed at its extremities and flexed in one direction, and a heat responsive device for causing flexure

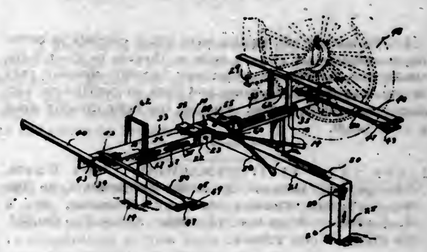


of said member in the reverse direction, said device comprising a hollow member and a heating device therein.

1,399,227. MOTOR-FUEL. FREDERICK W. ROHRS, Rosedale, Md. Filed Oct. 8, 1920. Serial No. 415,568. 2 Claims. (Cl. 44—9.)

1. A motor fuel consisting of 1 to 3% acetone, 8 to 15% kerosene and 80 to 90% gasolene.

1,399,228. WHEEL-ALINEMENT GAGE. DAVID L. ROWE, East Parsonfield, Me. Filed Oct. 1, 1920. Serial No. 413,962. 5 Claims. (Cl. 33—180.)



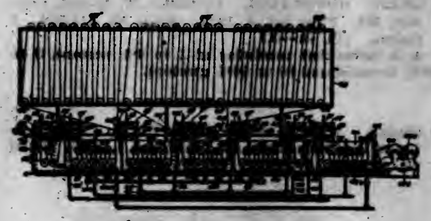
1. An apparatus of the class described comprising a frame, carriages mounted upon the frame, indicating means mounted on said carriages, and means on the carriages to engage against the axle of a vehicle whereby the frame may be squared with the chassis of a vehicle.

1,399,229. WEED BURNER AND ERADICATOR. WILLARD STRAIT SEAVOSS, Briercrest, Saskatchewan, Canada. Filed Mar. 5, 1921. Serial No. 450,066. 3 Claims. (Cl. 126—271.2.)

1. A weed eradicator, in combination with a vehicle, and comprising a platform on the vehicle, a bracket on the platform, a frame slidably and hingedly carried by the bracket and a caster-wheel at the outer end of the frame, a fuel tank on the platform, a distributing pipe

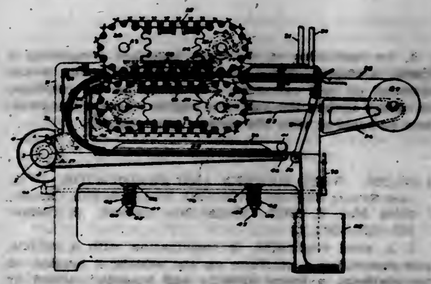
carried by the frame, a plurality of jets on the distributing pipe, pipe connections between the tank and the distributing pipe, means to feed the fuel to the distributing pipe and means to atomize the fuel.

1,399,230. PROCESS OF DYEING AND APPARATUS THEREFOR. BENJAMIN F. TOUCHSTONE, THOMAS H. GARDNER, JAMES A. BANGLE, DAVID M. SULLIVAN, and JOHN ERNEST HARDIN, Greensboro, N. C. Filed Sept. 8, 1920. Serial No. 408,896. 16 Claims. (Cl. 8—19.)



1. The method of treating warp which consists in reducing a complete set of yarn ends or threads to sheet form, conducting the sheet continuously through common yarn dyeing and treating means, and then in continuous pursuance to said treatment, winding the same directly upon a loom beam.

1,399,231. PLAITING-MACHINE. JOHN WHYTE, Chicago, Ill., assignor, by mesne assignments, to The Service Cloth Pleating Company, Evanston, Ill., a Corporation. Filed Dec. 13, 1920. Serial No. 430,837. 10 Claims. (Cl. 223—42.)



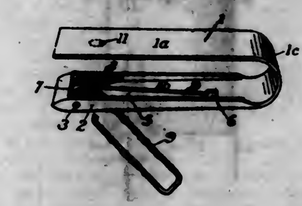
1. In a machine of the type described, the combination with a table, of a steaming device at one end of said table, through which a strip of cloth is adapted to pass, pressing means also supported by said table, a pair of superimposed endless elements, and means carried by said elements for plaiting said cloth after it leaves the steaming means and before it reaches the pressing means.

1,399,232. LIGHT-FIXTURE. ARTHUR H. WEISSMORFF, Chicago, Ill., assignor to Eugene A. Plass, Chicago, Ill. Filed Nov. 20, 1919. Serial No. 338,574. Renewed June 25, 1921. Serial No. 480,466. 8 Claims. (Cl. 240—115.)



1. The combination with a lamp-socket, of a shade having a flange, a lamp-socket support, and arms pivoted on said support, said arms having jaw-portions which lock said lamp socket to said lamp-socket support.

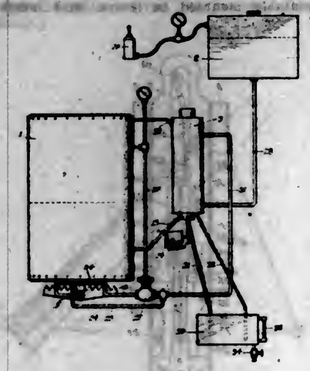
1,399,233. NECKTIE-CLASP. FRANK E. WILLIAMS and OLIVER S. BARNUM, Alhambra, Calif. Filed Jan. 9, 1920. Serial No. 350,228. 7 Claims. (Cl. 24—253.)



1. In a clasp of the character disclosed, a U-shaped body; a clasping element comprising a revoluble, yielding clasping member pivotally supported in one arm of said body; and means for retaining said yielding member in clasping relation with the inner side of the other arm of said U-shaped body; said clasping member comprising a material engaging tongue and a finger lever in yielding relation thereto by means of an interposed coil spring.

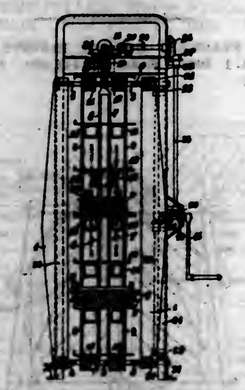
1,399,234. OIL-BURNING SYSTEM. WILLIAM H. WINSLOW, Chicago, Ill., assignor to Winslow Safety High-Pressure Boiler Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 12, 1918. Serial No. 249,372. 13 Claims. (Cl. 169—86.)

1. In combination, a vaporizing burner, a boiler, a supply tank for supplying liquid fuel under pressure, a vaporizing receptacle having steam heated surfaces heated by the steam from said boiler, the steam from said boiler being of sufficient temperature to vaporize and separate out the lighter and heavier constituents of the fuel, and



means for feeding the lighter constituents to said vaporizing burner.

1,399,235. MACHINE FOR PRESSING CIGARS. ROBERT WOSNITZA, Mannheim, Germany. Filed Sept. 2, 1916. Serial No. 118,298. 3 Claims. (Cl. 100—57.) (Granted under the provision of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

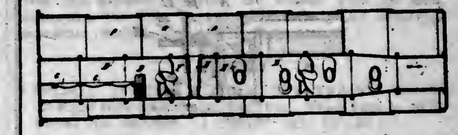


1. In a machine for pressing cigar packets of different sizes, the combination with the press table adapted to carry the press slides containing the cigars, of means to support said table on both sides, means to move said supporting means and thus said table vertically, pressing bars against which the packets of cigars are pressed when said press table is vertically moved, and means to adjust the position of said pressing bars according to the size of the packets of cigars before exerting the horizontal pressure, substantially as set forth.

2. In a machine for pressing cigar packets of different sizes, the combination with the press table adapted to carry the press slides containing the cigars, of means to support said table vertically, pressing bars against which the packets of cigars are pressed when said press table is vertically moved, and horizontally movable pressure rods carrying said pressing bars, substantially as, and for the purpose, set forth.

3. A machine for pressing cigar packets of different sizes, comprising in combination, a press table, the rods adapted to carry said press table, a screw spindle carrying said the rods, and a spur-wheel with screw threaded bore on said screw spindle, substantially as, and for the purpose, set forth.

1,399,236. DEVICE FOR INCREASING BOILER EFFICIENCY. OKIYE YAMASHITA, Tokyo, Japan. Filed Sept. 11, 1919. Serial No. 323,198. 4 Claims. (Cl. 137—112.)



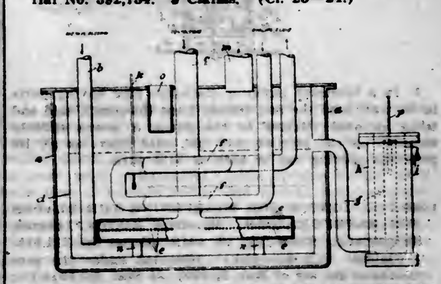
1. A device for use in a furnace tube of a cylindrical furnace, comprising a boss and a plurality of spiral propeller shaped blades mounted on said boss, said boss and each blade being structurally separate to permit the same to be inserted into the furnace tube and being adapted to be assembled within the furnace tube.

1,399,237. WEAVING-HEALD AND PROCESS FOR MANUFACTURING THE SAME. ALPHONS ZIPPEL, Lachen, Switzerland. Filed Mar. 31, 1921. Serial No. 457,479. 6 Claims. (Cl. 139—14.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A loom heald comprising a heald shaft of double steel wires the ends of which are bent away from one another and ears at either end of the heald shaft formed of small steel plates and provided with corresponding slots in which said ends of the wires are arranged and connected to the plates by soldering.

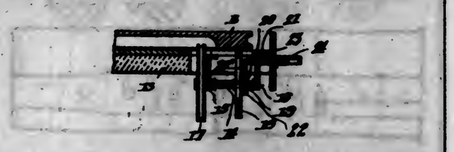
1,399,238. PROCESS OF MAKING ALKYL SULFURIC ACID. GEORGE P. ADAMSON, Huntington, N. Y., assignor to General Chemical Company, New York, N. Y., a Corporation of New York. Filed June 29, 1920. Serial No. 392,734. 9 Claims. (Cl. 23—24.)



1. The process of making alkyl sulfuric acid which comprises establishing a dominant bath of the desired

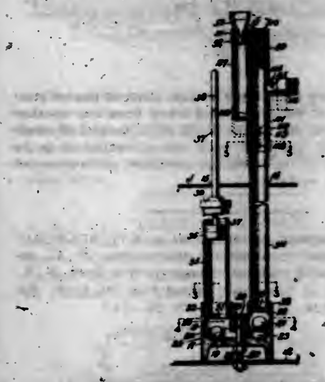
alkyl sulfuric acid, introducing to said bath alkyl alcohol, introducing sulfuric anhydrid, and withdrawing a part of the alkyl sulfuric acid while retaining a sufficient volume thereof to constitute a dominant bath within which to continue the described process.

1,399,239. DRIVING MECHANISM FOR TALKING-MACHINES. THOMAS ARMARY, Ottawa, Ontario, Canada. Filed Feb. 25, 1919. Serial No. 279,160. 1 Claim. (Cl. 74—26.)



In a talking machine, a motor plate having an aperture therein, a record turn table pivoted thereon, a pair of brackets, a shaft rotatably mounte don the brackets, and provided intermediate of the brackets with a square portion, a friction driving wheel slidably mounted on the square portion of the shaft and rotatable therewith and designed to engage the under side of the turn table, a flange formed on the hub of the friction driving wheel, a spindle having an axis parallel to that of the shaft, a downwardly extending arm formed integral with the spindle, a yoke carrier by the arm and engaging the flange, and a wheel projecting above the motor plate and having threaded engagement with the spindle, whereby the friction driving wheel is moved longitudinally on the shaft.

1,399,240. GREASE-PUMP. JOHN N. BAGLEY and WILLIAM M. DUTTON, Hastings, Nebr. Filed Jan. 23, 1920. Serial No. 353,523. 19 Claims. (Cl. 226—125.)



1. In a lubricant pump, a discharge pipe having ports in its wall near the end remote from the pump, said end being elevated relative to the pump, a sleeve slidably mounted on the pipe at said end, said sleeve in all its positions opening one or both of said ports.

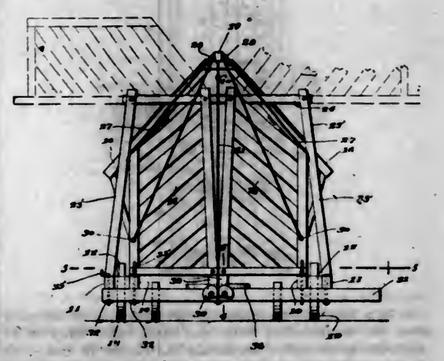
1,399,241. DEVICE FOR SHARPENING THE BLADES FOR SAFETY-RAZORS. WILHELM BARSCH, Lucerne, Switzerland. Filed July 18, 1919. Serial No. 311,715. 4 Claims. (Cl. 51—153.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. A device for sharpening the blades of safety razors having two cutting edges comprising in combination a frame having races, a carriage slidably arranged in said frame, a sharpening body mounted in said frame and arranged obliquely in the path of the carriage, a blade-holder rotatably mounted in levers, said levers being



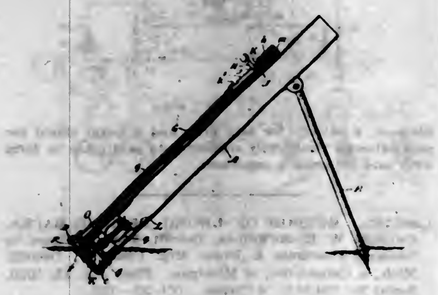
pivotally mounted on said carriage, springs acting on said levers, disks fixed to the blade-holder, said disks being pressed against races of the frame by said springs, and having flat portions at substantially right angles to the plane of the blade.

1,399,242. STACKER. OSCAR W. BENNETT, Colby, Kans. Filed Feb. 1, 1921. Serial No. 441,600. 1 Claim. (Cl. 180—20.)



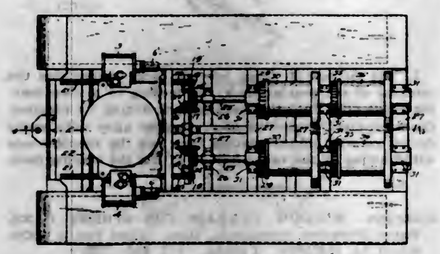
A stacker comprising an open-bottomed housing within which the material of a stack is to be thrown, vertically and transversely moving pivotally mounted gates at the rear end of the housing, brackets carried by the rear of the housing, a transverse beam pivotally supported at one side of the rear end of the housing and arranged to be moved to extend across the housing, at times, and longitudinally at the side of the housing at times, means for retaining the beam releasably on the brackets, spaced means on the intermediate portion of the beam for the reception therebetween of the gates, and to hold the gates against horizontally outward movement, under outward pressure from the material within the housing.

1,399,243. TRENCH-MORTAR. AXEL G. BESSMAN, New York, N. Y., assignor to Ordnance Engineering Corporation, New York, N. Y., a Corporation of New Jersey. Filed Feb. 24, 1919. Serial No. 278,869. 11 Claims. (Cl. 89—1.)



11. A gun or mortar embodying a bore, a closed breech, a centrally disposed firing pin, and a trigger mechanism embodying a plunger for functioning the firing pin or locking said firing pin in fixed position at the option of the gunner.

1,399,244. STUMP-PULLER. WAYNE WILLIAM BISSELL, Rochester, Minn. Filed June 30, 1920. Serial No. 392,934. 7 Claims. (Cl. 254—166.)



1. A stump pulling device comprising a vehicle, a plurality of drums carried thereby and disposed on axes parallel to the longitudinal axis of the vehicle, cables carried by said drums and adapted to be drawn out on opposite sides of the vehicle, and means for operating said drums to draw in said cables.

1,399,245. PROCESS OF PRODUCING TUNGSTIC OXID. WARREN F. BLEECKER, Boulder, Colo., assignor to The Tungsten Products Company, Boulder, Colo., a Corporation of Colorado. Filed June 9, 1920. Serial No. 387,670. 7 Claims. (Cl. 23—13.)

7. The herein described process of producing tungstic oxid consisting in stirring sodium tungstate with sulfuric acid, subjecting the mixture to heat and washing the product.

1,399,246. PROCESS FOR THE EXTRACTION OF VANADIUM, URANIUM, AND RADIUM FROM CERTAIN ORES. WARREN F. BLEECKER, Boulder, Colo., assignor to The Tungsten Products Company, Boulder, Colo., a Corporation of Colorado. Original application filed Oct. 2, 1919, Serial No. 327,955. Divided and this application filed June 9, 1920. Serial No. 387,671. 4 Claims. (Cl. 23—13.)

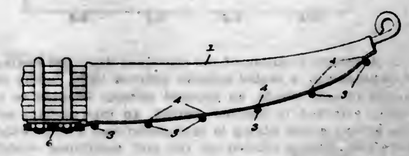
3. The process of extracting values from vanadium ores, consisting in mixing the ore with an alkali-metal carbonate and water, heating the mixture under pressure to a high temperature, separating the alkaline liquor from the product, treating the residue with an acid, separating the acid liquor by filtration, and removing vanadium carrying slimes from the residue.

1,399,247. INDESTRUCTIBLE TOY TRAIN. ROBERT EDWARD BLOOMFIELD, Bagdad, Fla. Filed June 8, 1920. Serial No. 387,809. 1 Claim. (Cl. 46—48.)



A movable toy consisting of a substantially solid rectangular body formed of a single piece of material having substantially flat sides provided with lower recesses and transverse bores connecting the recesses, wheel axles extending through the bores and terminating flush with the side faces, and wheels on the axles whose upper portions are disposed wholly within the said recesses and whose outer sides are wholly exposed flush with the body side faces.

1,399,248. LUBRICATING AND PROTECTING JACKET FOR SPRINGS. EMILE E. BOUCHARD, Burlington, Vt. Filed Jan. 24, 1921. Serial No. 439,576. 3 Claims. (Cl. 267—37.)



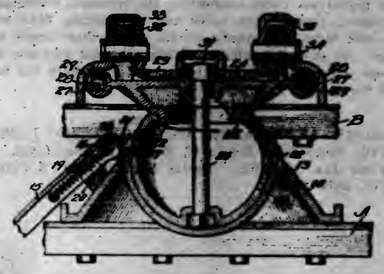
3. A vehicle spring lubricating and protecting jacket comprising a sheet of flexible and moisture-proof material including a lubricating surface adapted to be wrapped rather snugly around the spring with its ends arranged in overlapping relationship, coiled springs having their ends bent to provide hooks, said springs being arranged transversely across the jacket and having their hooks engaged with the overlapped ends of said jackets to connect said ends together, but permit them to separate to accommodate the relative movements of the various spring leaves, and a resilient anchor for the inner end of the jacket, serving to prevent wrinkling of the latter and to prevent longitudinal slipping thereof.

1,399,249. FISHING-TOOL. Charles Henry Brown, Ranger, Tex. Filed Sept. 13, 1920. Serial No. 409,971. 11 Claims. (Cl. 294—106.)



1. A fishing tool comprising a body, and a plurality of independently movable rods carried thereby and having gripping means.

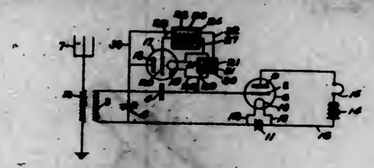
1,399,250. VEHICLE-COUPLING. Addi Benjamin Cadman, Beloit, Wis., assignor to Warner Manufacturing Company, South Beloit, Ill., a Corporation of Wisconsin. Filed July 10, 1918. Serial No. 244,222. 13 Claims. (Cl. 280—33.1.)



2. A vehicle coupling of the character described having, in combination, a socket member adapted to be rigidly attached to one vehicle, an opposed member adapted to be rigidly attached to another vehicle, an intermediate section having a ball fitting in said socket and withdrawable therefrom, means carried by the last mentioned vehicle for detachably locking the ball in the socket including a combined operating and locking hand lever, guide means allowing relative sliding movement between said opposed member and said intermediate section, spring means cushioning such sliding movements, and rollers coacting between said opposed member and said intermediate section for preventing binding or undue friction between these parts.

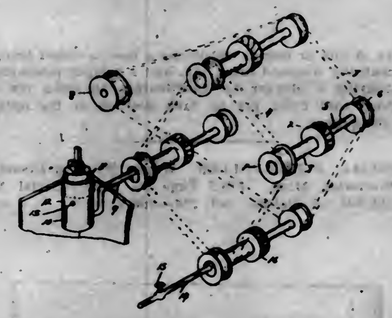
1,399,251. MEANS FOR CHANGING THE INTENSITY OF SIGNALS IN RADIODYNAMIC RECEIVING SYSTEMS. Ernest Leon Chaffee, Belmont, Mass. Filed July 31, 1917, Serial No. 183,880. Renewed Apr. 21, 1921. Serial No. 463,980. 11 Claims. (Cl. 250—20.)

1. Means for effecting a reduction of the intensity of strong signals produced through radiant energy without substantial reduction of the intensity of weak signals, said means including a highly evacuated electron tube inclosing a plate, grid and filament, a battery for said



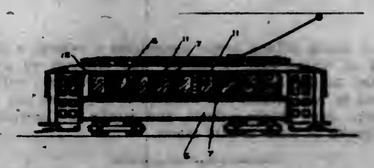
filament, a battery for said grid, and a metal shield for said batteries electrically connected to said plate to form with said batteries a condenser.

1,399,252. METHOD OF LINING BEARING-BACKS. Charles W. Eggenweiler, Detroit, Mich., assignor to General Aluminum & Brass Mfg. Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 15, 1920. Serial No. 374,012. 4 Claims. (Cl. 22—123.)



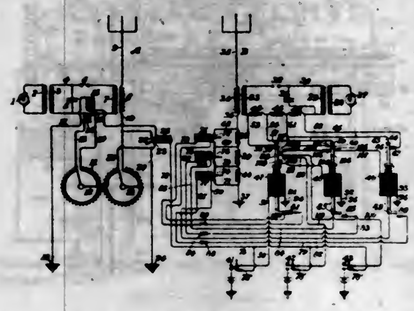
1. The method of lining bearing backs, comprising the rotating of the bearing back, the feeding of molten bearing-metal alloy into the bearing back during its rotation, the subsequent subjecting of the molten alloy with water during rotation of the bearing back and the simultaneous withdrawing of the vapor formed within the bearing back.

1,399,253. WINDOW-CURTAIN FOR STREET-CARS. Rocco Fabrizio, Springfield, Mass. Filed Feb. 4, 1920. Serial No. 356,100. 1 Claim. (Cl. 105—329.)



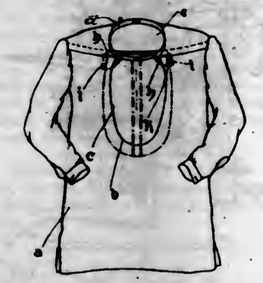
The combination with a passenger car constructed to provide an open side, a roller pivoted horizontally to the side of the car above the line of said opening, a roller adapted to engage the under side of said roller to prevent the same from sagging, a flexible fabric on said first mentioned roller adapted to be wound and unwound thereon and provided with a series of transparent reliable mottoes and means for holding said fabric downwardly so that said transparent sections will cover said opening.

1,399,254. SYSTEM OF RADIODYNAMIC CONTROL. John Hays Hammond, Jr., Gloucester, Mass. Filed June 30, 1917, Serial No. 177,867. Renewed Apr. 20, 1921. Serial No. 462,995. 12 Claims. (Cl. 250—17.)



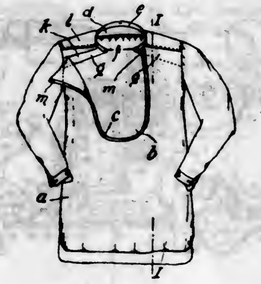
1. A system for the control of distant bodies by radiant energy comprising in combination, a central station including a closed oscillatory circuit and an open oscillatory circuit, each provided with a plurality of different inductance values that may be thrown into circuit and a corresponding plurality of local stations cooperatively associated with the central station and each having means whereby an inductance value characteristic of such local station may be thrown into each of said circuits.

1,399,255. SHIRT WITH REMOVABLE BOSOM. August Holste, Bielefeld, Germany. Filed Aug. 16, 1913. Serial No. 785,135. 1 Claim. (Cl. 2—41.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



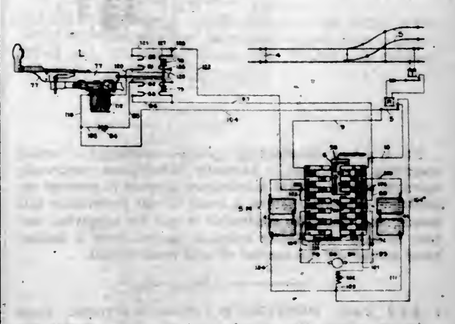
A shirt comprising a body provided with an open opening in its front and having a neck band extending inwardly beyond the edges of said opening, relatively small substantially rectangular interior flaps arranged at opposite sides of the front opening and fitted to the under side of the body and stitched at the neck band and at the outer edges, the inner portions of the flaps being extended into said opening and connected to the inwardly projecting ends of the neck band, the lower edges of the flaps being unconnected with the shirt, said flaps cooperating with the shirt front to form relatively small pockets at the upper front portions of the shirt and a removable bosom provided with a neck band and having its upper corners adjacent the neck band removably fitted in the pockets which have the outer stitched edges of the flaps arranged substantially contiguous to the removable bosom.

1,399,256. SHIRT. August Holste, Bielefeld, Germany. Filed Oct. 18, 1913. Serial No. 794,882. 3 Claims. (Cl. 2—41.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



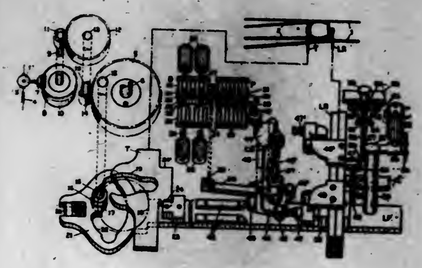
1. A shirt comprising a body provided with an opening in its front and having a neck band open at its front, the opposite ends of the neck band extending inwardly over the edges of said opening in the front, flaps secured to the underside of the body at opposite sides of the front opening and having their inner edges extending into said front opening and connected to said inwardly projecting ends of the neck band, the lower edges of said flaps being unconnected with the shirt and the neck band and cooperating with the shirt front to form oppositely disposed pockets at the upper front portion of the shirt, and a removable bosom provided with a neck band portion and whose upper corners adjacent its neck band portion have removable fit in said pockets.

1,399,257. DETECTOR-LOCKING FOR POWER-INTERLOCKING SYSTEMS. Winthrop K. Howe, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y., a Corporation of New York. Filed May 15, 1919. Serial No. 297,344. 25 Claims. (Cl. 246—135.)



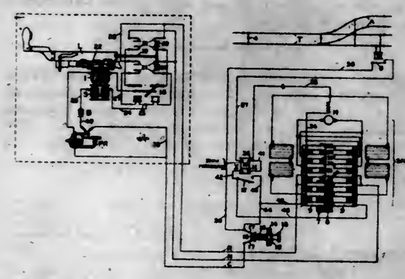
11. In a power interlocking system, a switch operating mechanism, means for at times preventing operation of said mechanism, and automatic means effective while the mechanism is operating to nullify the influence of the first mentioned means.

1,399,258. ELECTRIC LOCK FOR POWER-OPERATED SWITCH-MACHINES. WINTHROP K. HOWE, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 13, 1920. Serial No. 351,098. 50 Claims. (Cl. 246—160.)



18. In an interlocking system, a switch machine and an electric lock therefor, a track circuit, and separate manual and automatic means for controlling said lock, both acting to prevent the switch machine being operated by power while said track circuit is occupied.

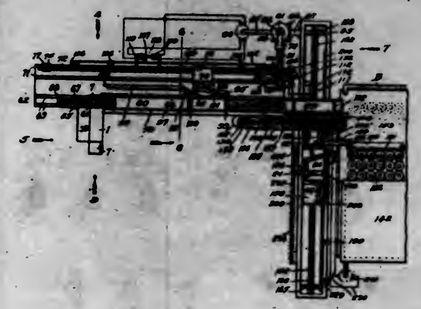
1,399,259. INTERLOCKING SYSTEM. WINTHROP K. HOWE, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 21, 1920. Serial No. 352,944. 54 Claims. (Cl. 246—135.)



23. A power interlocking system comprising a switch operating mechanism, a normally deënergized electrically operable means at said mechanism adapted to prevent application of power thereto, a track circuit controlling said means, and manually controlled means for supplying current to said electrically operable means from a distant point subject to the control of said track circuit.

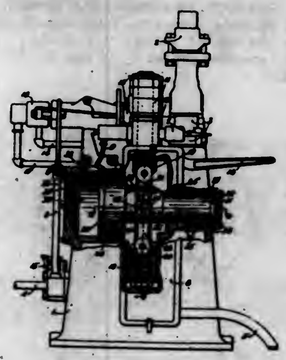
1,399,260. BOTTLE-CONVEYING MACHINE. JOHN JIMAS, Alton, Ill. Filed July 16, 1919. Serial No. 311,223. 8 Claims. (Cl. 198—64.)

1. A bottle conveying device comprising a vertically disposed intermittently movable carrier, a holder for receiving bottles, one at a time, neck first as they fall from a molding machine, means for transferring the bottles from said holder, bottom first, onto a second holder, means for actuating said second holder for depositing the bottles upon the carrier, an elevated bottle receiving platform at the upper end of said carrier and mechanism



for transferring the bottles, one at a time, from the carrier to the bottle receiving platform as they reach the elevation of the platform.

1,399,261. CLAMPING MECHANISM. HARRY C. JOHANSEN, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Nov. 13, 1918. Serial No. 262,294. 21 Claims. (Cl. 76—5.)

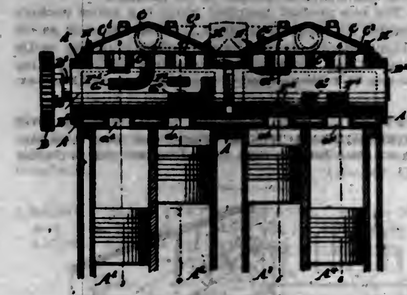


1. In combination, a frame, work clamping mechanism thereon including a toggle link, a link actuating member and a connection between said link and said member slidable in a direction transverse to the direction of movement of the member.

1,399,262. INTERNAL-COMBUSTION ENGINE. THEODORE W. KLOMAN, Park Ridge, N. J. Filed Nov. 6, 1920. Serial No. 422,170. 5 Claims. (Cl. 123—59.)

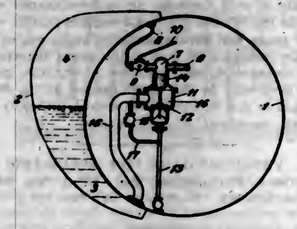
1. In an internal combustion engine, a plurality of cylinders set side by side each having a cylinder port, a rotatable hollow cylindrical valve having oppositely located inlet ports leading from the exterior to and communicating with the interior thereof in order to bathe such interior with intake gases and matching to said cylinder ports, arranged to receive fuel gas through one

of said inlet ports and cause such gas to flow diametrically and directly across the interior of said valve and



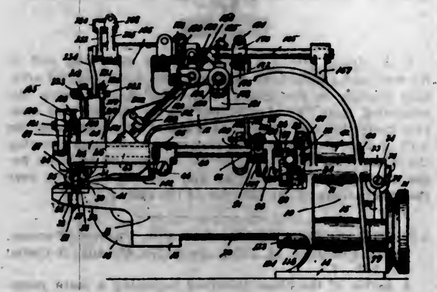
through the other of said inlet ports to one of said cylinder ports.

1,399,263. VALVED CONTROLLING APPARATUS FOR OUTBOARD-BALLAST AND FUEL-TANKS. FERDINAND LANTZ, Hamburg, Germany. Filed Feb. 20, 1920. Serial No. 360,181. 3 Claims. (Cl. 114—16.)



1. In an arrangement in vessels, especially submarine boats for the storage of fuel in outboard tanks a pipe system for filling and withdrawing the fuel into and from said tanks, a further pipe system for filling said tanks with sea water in proportion to the fuel drawn from the tanks, a valve-like structure connected to both said pipe systems and an automatically closing member in said valve structure through which only the filling water can enter into said fuel tanks.

1,399,264. FOLDING-MACHINE. WILLIAM F. LAUTENSCHLAGER, Cincinnati, Ohio, assignor to Lorens Muther, Newton, Mass. Filed May 31, 1919. Serial No. 300,862. 36 Claims. (Cl. 12—54.)



1. In a folding machine, the combination of means for feeding the material through the machine, means for turning over the edge to be folded, means for pressing the edge to be folded down upon the body-portion of the material and a work-support for holding the material being operated upon, said work-support being curved transversely to the line of feed beginning at the line of fold of the material.

1,399,265. WRENCH. OSCAR H. LAY, Seattle, Wash. Filed Mar. 24, 1921. Serial No. 455,135. 1 Claim. (Cl. 81—109.)

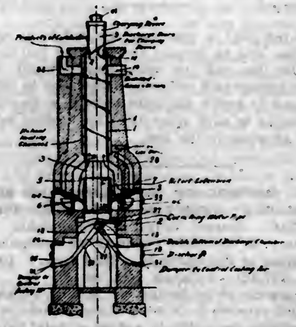


A wrench including a handle equipped with a jaw on one end, a jaw movably mounted on said handle and provided with an inclined toothed working face coöperable with the first jaw, said movable jaw having a portion of one of its ends extended and engageable with the other jaw and toothed to augment the gripping action of said jaws, and means extending through the movable jaw and handle to hold said movable jaw in a predetermined position.

1,399,266. PREPARATION FOR THE NEUTRALIZATION OF THE ACIDS AND THE PRECIPITATION OF SALTS CONTAINED IN WATERS. VICENTE GONZÁLEZ LORENZO, Habana, Cuba. Filed Dec. 7, 1920. Serial No. 428,935. 2 Claims. (Cl. 87—27.)

1. A solution for the neutralization of the acids and precipitation of the salts contained in water, consisting of approximately 430–450 grams of hydrate of sodium, 26–30 grams of sulfate of soda, 1½–2 grams of phosphate of soda and 1 centigram of tannin, to 1000 c. c. of water.

1,399,267. APPARATUS FOR DISTILLING FUEL AND BITUMINOUS ROCKS. GIUSEPPE MAGRI, Turin, Italy. Filed Jan. 21, 1919. Serial No. 272,333. 4 Claims. (Cl. 196—19.)



3. In a fuel distilling apparatus, furnaces, a distilling retort supported on the roof of said furnaces and open

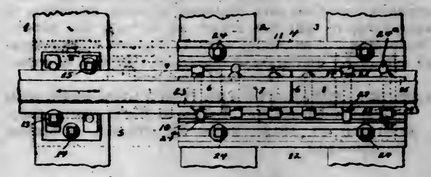
at the bottom, said furnaces arranged to draft through said retort, an axial extension of said retort also open at its bottom, a cooling chamber into which said extension discharges, and means to supply quenching water within said chamber, said chamber arranged to be drafted through said retort.

1,399,268. TELEPHONE APPARATUS. FRITZ P. MANGSEMOM, Brooklyn, N. Y., assignor to Ultra Harphone Co., Inc., New York, N. Y., a Corporation of New York. Filed June 13, 1917. Serial No. 174,481. 1 Claim. (Cl. 179—108.)



A telephone instrument, comprising: a casing; a cap rotatable thereon; a diaphragm retained in said cap; a permanent magnet mounted in said casing, having pole pieces toward and away from which the said diaphragm is movable through rotation of the said cap, and a winding for said magnet; a lever mounted in said casing; and a flexible strip connected to said lever and to said casing for fulcruming the former on the latter, said lever having at one end an armature in proximity to the poles of said magnet and influenced thereby, and having its other end engaging said diaphragm but being unattached thereto.

1,399,269. RAIL-JOINT. ANDREW J. NEAFIE, Mountain Lakes, N. J. Filed Dec. 22, 1920. Serial No. 432,472. 6 Claims. (Cl. 238—210.)



1. In a rail-joint, a base-plate adapted to lie upon two adjacent ties and to support the abutting rail-ends with freedom for the rail to move longitudinally thereon, means for joining said rail-ends, spike-holes in said base-plate located to match the spike holes in a tie-plate, and means received in such spike holes for holding said base-plate and tie-plate to the ties.

1,399,270. METHOD OF PACKAGING AND SEALING PERISHABLE ARTICLES AND THE PRODUCT THEREOF. JOSEPH NUSBAUM, Philadelphia, Pa., assignor to P. B. Sharpless Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 7, 1920. Serial No. 387,224. 4 Claims. (Cl. 99—8.)

1. The process of packaging and sealing perishable articles, which consists in forming a closed package by completely inclosing the article in a sheet of metal foil, such as tin foil or aluminum foil, preparing a melted paraffin composition containing beeswax and resin, raising the temperature thereof to effect complete fluidity, and dipping the package therein to effect a sealing coating thereon throughout the entire exterior surface of the package.

4. The new product described which is a sealed package comprising an inclosing wrapper of metal foil such as tin or aluminum foil, having firmly adhering to the entire exterior of the inclosing foil wrapper a sealing coating consisting of a composition of paraffin, resin and beeswax.

1,399,271. BAND-CUTTER AND FEEDER FOR THRESHING-MACHINES. PETER ODA, near Arcanum, Ohio. Filed July 10, 1920. Serial No. 395,202. 4 Claims. (Cl. 130—1.)



1. In a threshing machine and in combination with the cylinder thereof, a grain feeder comprising a table extending laterally of said machine, an endless carrier operable thereover to receive the grain, an endless carrier operable in a lower plane and substantially at right angles to said table carrier, adapted to receive the grain therefrom and to convey the same to said cylinder, a rotatable guard arranged in proximity to the upper carrier at its discharge end and means for rotating said guard inversely to the direction of movement of said carrier.

1,399,272. PRESSURE-GAGE FOR PNEUMATIC TIRES. FRANK OGLE, Philadelphia, Pa. Filed Jan. 26, 1920. Serial No. 354,069. 4 Claims. (Cl. 73—111.)



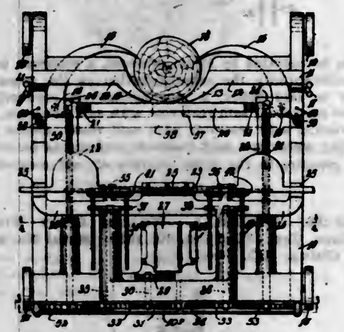
1. A casing having a longitudinally extending slot in its wall and graduations adjacent said slot, a spring-actuated plunger in the casing, a traveler in the casing disconnected from the plunger but seated thereon and movable therewith and adapted to frictionally engage with the wall of the casing about the slot and at all times covering the latter from the interior of the casing, and an index finger attached to said traveler and adapted to sweep over the graduations on the exterior of the casing.

1,399,273. DISPLAY-BOX. BAYCE B. PERROW, Tacoma, Wash. Filed Dec. 13, 1920. Serial No. 430,401. 1 Claim. (Cl. 217—7.)

A device of the class described including a main receptacle, a removable cover therefor, said cover being engaged over the bottom of the receptacle when the receptacle is in use, a plurality of individual receptacles arranged transversely within the main receptacle and disposed in parallel relation with respect to each other providing a continuous receptacle from one side wall of the main receptacle to the other, means for connecting the abutting side walls of the individual receptacles and means for connecting the individual receptacles to the side and end walls of the main receptacle.

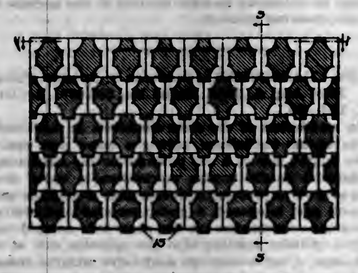


1,399,274. TREE-SAWING MACHINE. STEVEN RADIMAK, New York, N. Y. Filed Oct. 9, 1920. Serial No. 415,886. 2 Claims. (Cl. 143—68.)



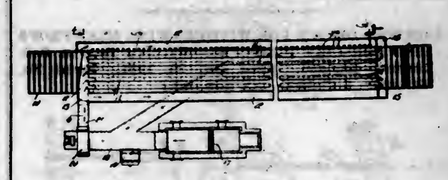
2. In a power saw, a saw blade, a slide on which said saw blade is mounted, means for advancing said slide transversely to itself, means for reciprocating said slide to move the saw back and forth across the work, said means including mutilated gears adapted to alternately have operative relation to the slide, shafts fixed against longitudinal movement for rotating said gears, and means adapted to permit said gears to advance with the slide while maintaining rotative engagement with said shaft, said means including apertured disks fixed to said shafts, and rods fixed to said disks and passing freely through the apertures in said disks.

1,399,275. HEATING-WALL FOR COKE-OVENS AND THE LIKE. ARTHUR ROBERTS, Evanston, Ill., assignor to American Coke & Chemical Company, Chicago, Ill., a Corporation of Maine. Original application filed Sept. 15, 1916, Serial No. 120,351. Divided and this application filed Jan. 27, 1919. Serial No. 278,230. 5 Claims. (Cl. 72—15.5.)



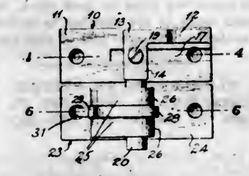
1. A coke oven heating wall comprising courses of blocks, the courses breaking joints with each other, each block having its four corners recessed to provide, in conjunction with the adjoining blocks a series of passages extending in sig-sag fashion between the blocks of the successive courses, and each block having in its lower central portion a downwardly projecting tongue entering into the space between the recesses of the two blocks immediately below it, whereby gases traveling lengthwise of the wall are compelled to pass around said tongues, and are therefore compelled to travel in sig-sag fashion, substantially as described.

1,399,276. DRIER FOR PLASTER-BOARD. DAVID E. ROBERTS, Buffalo, N. Y., assignor to The Beaver Company, a Corporation of Ohio. Filed Jan. 17, 1920. Serial No. 352,122. 9 Claims. (Cl. 34—12.)



1. A drier comprising a plurality of superposed conveying means for carrying sheet material therethrough, and a return-circuit heating system having a plurality of closed-circuit heat radiating conduits arranged adjacent the top and bottom of each of said conveying means.

1,399,277. WINDOW-FASTENER. FREDERICK THOMAS SCHNEIDER, New York, N. Y. Filed Mar. 3, 1920. Serial No. 363,052. 1 Claim. (Cl. 292—210.)

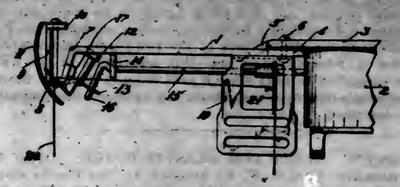


A window fastening comprising a plate having formed therein longitudinal transverse grooves, said plate being adapted to be secured to the upper sash of a window, a vertically pivoted latch bar carried by the plate and adapted to be yieldably held in either of said grooves, a keeper plate adapted to be secured to the lower sash of a window and having a transverse groove adapted to register with the transverse groove in the first mentioned plate, when the window is closed, spaced flanges adjacent opposite edges of said keeper plate, retaining fingers on said flanges adapted to partially extend over the bar when the latter is occupying the transverse groove in both plates, a keeper hook pivoted between the flanges and coöperating with the flanges and fingers in surrounding the bar to keep the latter in the transverse groove, a spring yieldably holding said hook in closed position and a thumb piece on said hook.

1,399,278. ARM FOR KNITTING-MACHINES. EDWARD H. STINES and WILBUR C. POTTER, New Brunswick, N. J. Filed Feb. 19, 1919. Serial No. 277,977. 4 Claims. (Cl. 66—7.)

1. The combination with a support for thread-controlled stop mechanism, of an arm having one end to be secured

to the support, and having its opposite end bent to extend laterally, then longitudinally, then transversely, and then



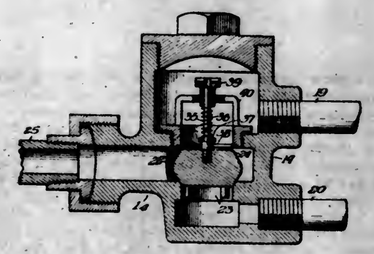
reversely, to enable a thread guide to be secured to the arm at the points where said arm is bent longitudinally and reversely.

1,399,279. DEVICE FOR WITHDRAWING MINE-PROPS AND FOR-LIKE PURPOSES. WILLIAM TEMPLE, Bedlington, England. Filed Oct. 29, 1921. Serial No. 511,499. 3 Claims. (Cl. 254—68.)



1. In a device for withdrawing mine props and for like purposes, the combination of a bar, teeth on two sides thereof the pitch of the teeth on one side being a fractional part of the pitch of the teeth on the other side, a slotted block mounted on said bar, a spring pawl carried by said block engaging the closer-spaced teeth of said bar, an operating lever having a fulcrum pin engaging the wider-spaced teeth of said bar, a pivoted link connecting said operating lever to said block, to a chain for attaching said block to the member to be withdrawn and means for anchoring the rear end of said bar.

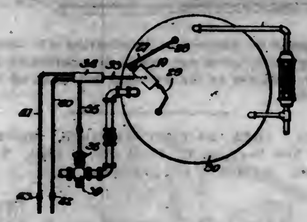
1,399,280. FLUID-PRESSURE SYSTEM. VINCENT V. VEENSCHOTEN, Erie, Pa. Filed Nov. 22, 1917. Serial No. 203,469. 12 Claims. (Cl. 103—91.)



1. The combination of two vessels, a fluid under pressure contained in each of said vessels, a device arranged to be operated by one of said fluids, and means for operating the said device by the other of said fluids when the difference between the pressures of the said fluids reaches a predetermined amount.

1,399,281. FEED-WATER REGULATOR. VINCENT V. VEENSCHOTEN, Erie, Pa. Filed Dec. 16, 1918. Serial No. 266,870. 2 Claims. (Cl. 122—451-2.)

1. The combination of a boiler and a feed-water regulator, said regulator comprising a vessel adapted to contain water and mounted at an angle to the horizontal adjacent said boiler and at substantially the same elevation as the mean water-level in said boiler, a tube passing through said vessel and connected with said boiler above and below the mean water-level therein, a feed-water valve operatively connected with said boiler, a governor operatively connected with said valve and adapted to be operated by steam pressure, a reservoir mounted at substantially the same elevation as the mean water level in said boiler, a pipe operatively connecting the lower portion of said reservoir with said governor, a pipe connecting said reservoir with said vessel, means for admitting water into said reservoir, and means for relieving the pressure in the upper portion of said reservoir.



1,399,282. WINDMILL. WILLIAM HENRY WINSLETT, Nixon, Tex. Filed Oct. 19, 1920. Serial No. 417,908. 3 Claims. (Cl. 74—71.)

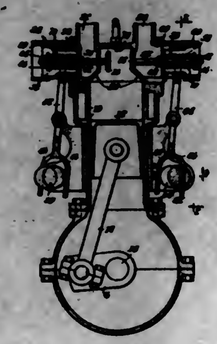


2. A balance device comprising a rectangular web, extensions formed on the corners of said web and angularly related and secured to a support, tension springs secured to said extensions adjacent the corners of the web, and an attaching member secured to the springs and to a reciprocating element.

1,399,283. GAS-ENGINE. GOTTLIEB F. ZUCKER, Chicago, Ill. Filed Aug. 8, 1919. Serial No. 316,033. 2 Claims. (Cl. 123—90.)

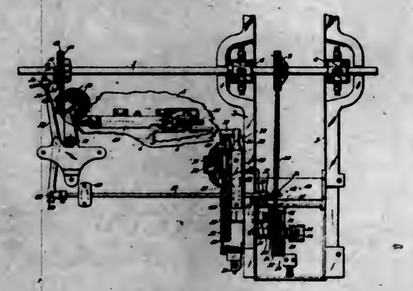
1. In mechanism of the class described, in combination with an engine mechanism having a valve port controlling the engine side of a gas passage for the admission of fuel material to the engine mechanism, a valve firmly closing said valve port and reciprocatable to position where said valve port is opened, a piston member reciprocatable in the engine mechanism on the same axis as said valve and in a cylinder opening into the opposite side of said gas passage, a valve stem on said valve slidable through said piston, a positive stop on said valve stem intermediate of its length, engaged by said piston, detachable means

at the end of said valve stem which is away from the valve, also engageable by said piston, a spring carried by the



piston and engaging said last mentioned means on the end of the valve stem, and means for reciprocating said piston for the purposes set forth.

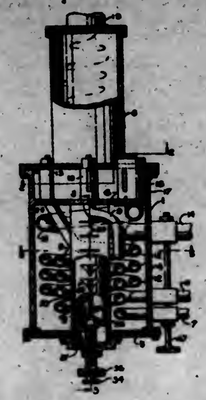
1,399,284. POWER-TABLE. EDWARD B. ALLEN, Newtown, Conn., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Oct. 21, 1919. Serial No. 332,285. 13 Claims. (Cl. 74—21.)



1. The combination with a machine having a plurality of shafts to be driven at different speeds, of a supporting table-top, a constantly running power-shaft journaled below said table-top, and means including a common controlling element for establishing or interrupting driving relation between said power and machine shafts.

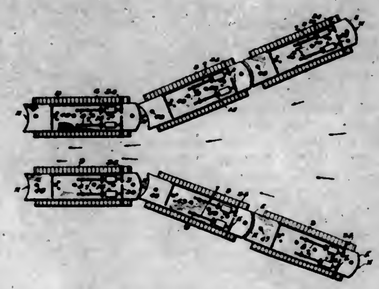
1,399,285. GAS-GENERATOR. REUBEN B. AYRES, New York, N. Y. Filed July 3, 1920. Serial No. 393,851. 6 Claims. (Cl. 48—96.)

1. In an apparatus of the character described, in combination, a mixing chamber, said chamber comprising an inner cylinder and an outer cylinder with an opening therebetween, closing means extending the passage between the cylinder walls at one edge of said opening and means for introducing a hydro-carbon gas, steam, and air, under pressure into said chamber behind the said closing means whereby said elements are constrained to follow the passage between the cylinder walls until said opening is reached, said elements mixing and thoroughly com-



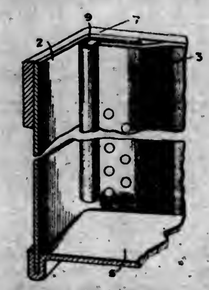
mingling in said passage and within the inner cylinder, whence they may be conducted to the engine.

1,399,286. DREDGING SYSTEM. CARL J. BARR, St. Louis, Mo. Filed July 28, 1920. Serial No. 399,544. 22 Claims. (Cl. 61—2.)



1. A floatable dam unit provided with means for varying its displacement, and with self-contained propelling means whereby the unit may be moved through the water or along the bottom thereof.

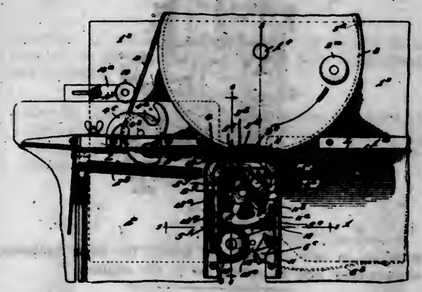
1,399,287. FREEZING-CAN. ANSON J. BENTLEY, Niles, Ohio. Filed May 16, 1921. Serial No. 469,883. 3 Claims. (Cl. 62—159.)



1. A freezing can for use in the manufacture of ice and having an air tube extending from the top of the can

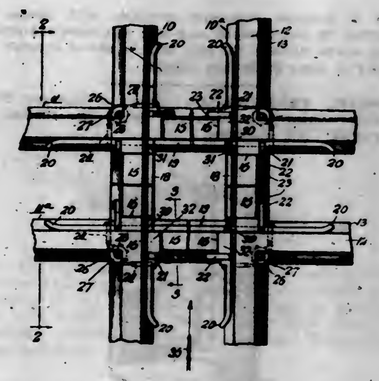
to a point adjacent the bottom of the can, the said tube comprising a strip of sheet metal folded longitudinally to provide an air conduit and an attaching fin extending the length of the tube, and being secured to the can by rivets passing through said fin.

1,399,288. MACHINE FOR POSTMARKING AND CANCELING LETTERS. WALTER H. BOWES, Greenwich, Conn. Filed Sept. 7, 1918. Serial No. 253,066. 21 Claims. (Cl. 101—239.)



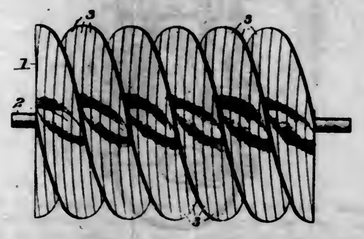
1. In combination, means for feeding a letter; means for printing the letter; a stop adapted to prevent the passage of another letter past the printing means until the preceding letter has passed and the printing means is ready to again operate; gearing between the feeding means and the printing means whereby the latter is caused to make one rotation or operation during the time each letter should be fed therepast: and a cam operating in unison with the printing means, whereby said stop is moved into position for effective operation during the printing operation on a letter and released after the printing operation; and means for withdrawing the stop to permit the forwarding of the next letter to the printing means when the latter is ready to begin another operation.

1,399,289. RAILROAD-CROSSING. JOHN F. BRADY, Colorado Springs, Colo. Filed Mar. 3, 1920. Serial No. 362,970. 13 Claims. (Cl. 246—273.)



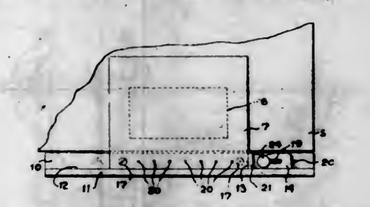
1. In a railroad crossing, the combination of intersecting rails, said rails each being provided with gaps adjacent the inner edges of the rail which it intersects, bridge blocks normally closing and having bearing in said gaps, means connecting said bridge blocks to the crossing, permitting said blocks to move out of said gaps, and means operated by a train approaching said crossing to actuate said bridge blocks to remove them from the gaps in the rails which the train crosses.

1,399,290. PROPELLER FOR AIRCRAFT. ALEXANDER BRULLE, New York, N. Y. Filed Nov. 16, 1920. Serial No. 424,458. 3 Claims. (Cl. 170—168.)



1. A spiral screw propeller composed of a plurality of similar sections each having a hub section and oppositely extending blade sections, said sections being secured together edge to edge to form the continuous spiral screw, and each section being bowed axially of the propeller from the hub portion to the ends of its blade-portions for the purpose specified.

1,399,291. PRINTING-PRESS GAGE. EDWARD A. CORBY, Brooklyn, N. Y., assignor to Tiffany & Co., New York, N. Y., a Corporation of New York. Filed Aug. 16, 1918. Serial No. 250,248. 2 Claims. (Cl. 101—413.)

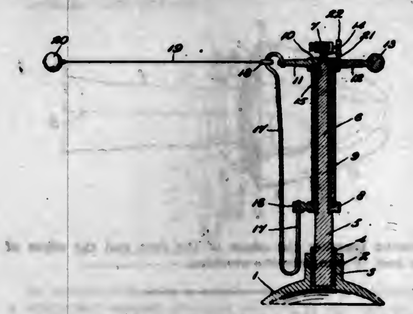


1. A printing press gage comprising, in combination, a supporting member, an elongated gage member of angular cross-section, having a raised, longitudinally disposed guiding portion, means for attaching said elongated gage member to said supporting member, a slotted transverse gage member associated with said elongated gage member and adjustable longitudinally thereof, said transverse gage member having a raised portion coöperating with the raised portion of said elongated gage member and said elongated gage member having a plurality of threaded apertures therein, and a threaded adjusting member passing through the slot in the transverse gage member and selectively into any desired one of said threaded apertures, to maintain said transverse gage member in its adjusted position relatively to said elongated gage member.

1,399,292. CAPTIVE-BALL PRACTICE DEVICE. CHARLES F. CRAIG and HERSCHEL M. CONNOR, San Francisco, Calif., assignors to Craig Golfmeter Co., a Corporation of Delaware. Filed Dec. 8, 1919. Serial No. 343,365. 2 Claims. (Cl. 46—4.)

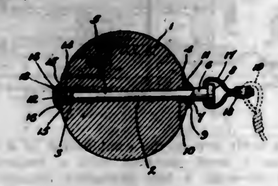
1. In a device of the class described the combination of a base; a stationary standard secured to said base; a rotatable member comprising a sleeve adapted to revolve about said standard; a rod member rigid with said sleeve, spaced therefrom, and extending from end to end of the

same; a slidable ring member movable on said rod member; a ball connected to said ring member; and means



for indicating the travel of said ball when struck; substantially as described.

1,399,293. PLAYING-BALL. CHARLES F. CRAIG and HERSCHEL M. CONNOR, San Francisco, Calif., assignors to Craig Golfmeter Co., a Corporation of Delaware. Filed Dec. 8, 1919. Serial No. 343,364. 2 Claims. (Cl. 46—4.)



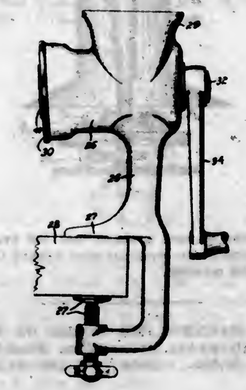
1. In a device of the class described the combination of a ball provided with a diametrical bore; a pin provided with a shoulder passing through said bore; a washer member carried by said pin and coacting with said shoulder, said member being provided with a flange adapted to bite into the surface of said ball and support the same, and a nut adapted to prevent the withdrawal of said pin, substantially as described.

1,399,294. CONDENSER. GODFREY ENGEL, Sr., Brooklyn, N. Y., assignor to Buffalo Foundry & Machine Co., Buffalo, N. Y., a Corporation of New York. Filed Mar. 1, 1920. Serial No. 362,477. 15 Claims. (Cl. 261—114.)



1. In combination, a condenser shell and spray producing means within said shell and comprising an overflow chamber having a rotatable perforated bottom adjustable to vary the flow thereover and to vary the amount of overflow.

1,399,295. FOOD-CHOPPER. JOHN M. FEENEY, Bridgeport, Conn. Filed Apr. 25, 1921. Serial No. 464,270. 13 Claims. (Cl. 17—20.)



5. In a food chopper, a body having a circular discharge opening provided with a rabbet, a rotatable cutter seated in said rabbet and having a non-circular opening, and a shaft in said body having a non-circular portion received in the opening in said cutter and a shoulder engaging the outer face of said cutter.

1,399,296. EGG-BEATER. JOHN M. FEENEY, Bridgeport, Conn. Filed June 23, 1921. Serial No. 479,895. 9 Claims. (Cl. 259—132.)

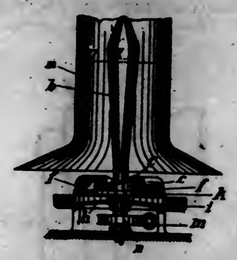


1. An implement of the character described comprising a frame, a fixed spindle, a removable spindle, said spindle being provided with intermeshing pinions, and a driving wheel engaging pinion of the fixed spindle.

1,399,297. SHAFT-FURNACE. CARL GIESECKE, Bad Harzburg, Germany. Filed Mar. 27, 1917. Serial No. 157,741. 10 Claims. (Cl. 259—43.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. In a device of the character set forth, the combination of a tubular member having a discharge opening at

its lower end, and a core disposed within that part of the member through which sintered pieces are caused to pass and also extending through said discharge opening.



said core being of such a shape that the available member space increases in sectional area toward the discharge opening of the member.

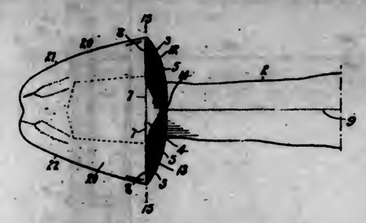
1,399,298. HARNESS FOR LOOMS OR THE LIKE. EDGAR F. HATHAWAY, Boston, Mass. Filed Nov. 4, 1915. Serial No. 59,562. 1 Claim. (Cl. 139—14.)



A heddle cord for holding the heddle eye of a loom harness embracing in its construction a cord looped through said eye and doubled back upon itself to form a closely assembled double strand, a fastening clip comprising a single piece of flexible sheet material wrapped completely around said double strand under sufficient pressure to embed the whole clip in the encircled portion of the double strand so as to afford no projection beyond the outer surface of the adjacent portions of the double strand, the free ends of said clip being laterally offset when so embedded to pass beyond each other circumferentially of the double strand thereby avoiding the overlapping of one end of the clip above the other, substantially as described.

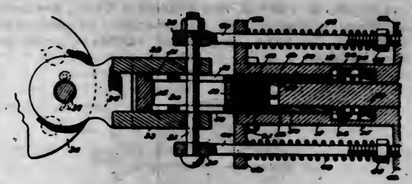
1,399,299. STOCKING. ALBERT B. HEINEN, Atlanta, Ga. Filed May 17, 1921. Serial No. 470,363. 5 Claims. (Cl. 66—4.)

1. The method of forming a stocking by knitting a seamless leg and heel, slitting the heel to permit the fabric to be extended in flat formation, and knitting a foot in flat formation to the heel and end of the leg and



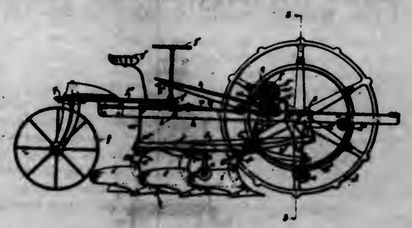
seaming together the edges of the foot and the edges of the heel to complete the stocking.

1,399,300. DRAFT DEVICE. EDWIN G. HINES, Drums, and CHARLES S. MYERS, Hazleton, Pa.; said Myers assignor to said Hines. Filed May 29, 1920. Serial No. 385,278. 14 Claims. (Cl. 213—67.)



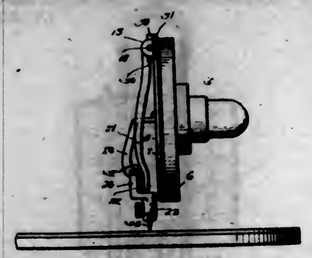
1. In a draft device, the combination of a body member having a head provided with a longitudinal slot closed at its ends, a bolt extending through said slot, means mounted on said bolt for connecting the same to a source of power, draft rods mounted on said body member and engaged by said bolt, springs providing a driving connection between said draft rods and said body member, means for coupling the body member to a device to be towed, and a releasing device slidably mounted upon said bolt and adapted to disconnect said coupling means.

1,399,301. TRACTOR-PLOW. JOHN HIST, Cleveland, Ohio. Filed June 21, 1917. Serial No. 176,182. 5 Claims. (Cl. 97—30.)



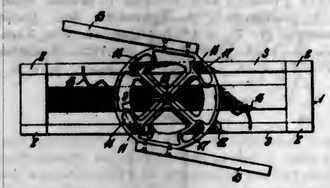
1. In a plow mechanism, the combination with a main power-imparting wheel of a gang plow connected rearwardly thereof, flexible elevating members associated with said gang plow, a gear wheel normally maintained out of mesh, an actuating gear upon the first-named wheel, a drum mechanism for controlling the flexible elevating members, and a knee-joint support for the drum and the gear wheel adapted alternatively to hold it in or out of engagement, whereby the gang plow may be lifted by the rotation of the first-named wheel, substantially as set forth.

1,399,302. SOUND-BOX. LEO LEULIER HUGHES, Washington, D. C. Filed Mar. 28, 1921. Serial No. 456,815. 1 Claim. (Cl. 274—35.)



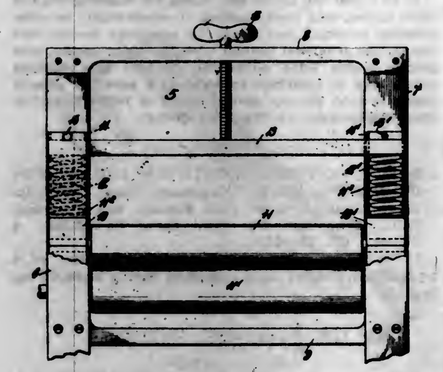
In combination with a sound box having a diaphragm, a stylus bar support pivotally secured at one end to the upper end of the sound box, the other end of said support being free, a stylus carrier and a stylus bar carried by the free end of said support, and means for rocking said support on its pivot.

1,399,303. WRINGER. BRUNSON S. MCCUTCHEN, Plainfield, N. J. Filed Sept. 20, 1920. Serial No. 411,547. 4 Claims. (Cl. 68—32.)



2. A clothes wringer comprising a frame having pressure rolls and pressure means therefor, a screw cooperating with said pressure means, rotatable means for carrying said screw, said means having slots therein arranged about its axis, projections on said frame adapted to operate in said slots and to lock said member to said frame when said member is rotated in one direction and to permit disengagement of said member when rotated in a counter direction.

1,399,304. WRINGER. BRUNSON S. MCCUTCHEN, Plainfield, N. J. Filed Oct. 8, 1920. Serial No. 415,496. 3 Claims. (Cl. 68—32.)



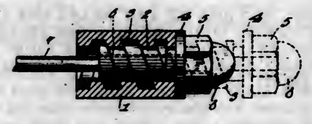
2. A clothes wringer comprising a frame having pressure rolls and bearing blocks therefor, spring housings bearing against the bearing blocks of one of said rolls, compressed coil springs in said housings, an equalizer bar slidable in and spanning said housings and bearing at each of its ends against one end of one of said springs, and a pressure screw passing through said frame and bearing against said equalizer bar.

1,399,305. HOLDER FOR TOILET ARTICLES. JULIUS MOLNAR, New York, N. Y. Filed Mar. 25, 1921. Serial No. 455,394. 1 Claim. (Cl. 248—63.)



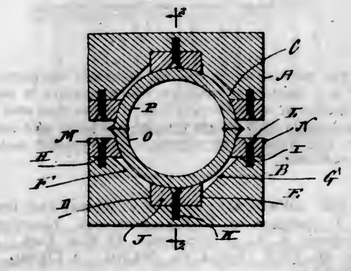
A holder for toilet articles comprising front and rear walls and bottom formed of a single blank, an inverted U-shaped element inserted between said walls to provide a horizontal pocket open at both ends, a rectangular tubular element inserted between said front and rear walls and forming a central pocket, the front wall element having integral flaps folded across upon the rear wall element to form side pockets.

1,399,306. DEVICE FOR USE WITH NAILS. GEORG MÜLLER, Wurttemberg, Germany. Filed July 30, 1914. Serial No. 854,210. 1 Claim. (Cl. 85—10.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



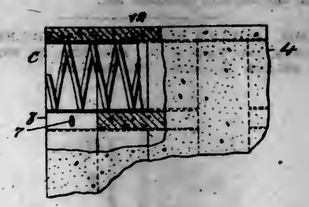
In a device of the character described, the combination of an outer sleeve with an inner sleeve forming a nail guide and having an external thread, a flanged portion at the outer end of the inner sleeve and a hexagonal reduced portion on the externally threaded sleeve adapted to provide a grip for a wrench, substantially as described.

1,399,307. ELECTRODE FOR ELECTRICAL WELDING-MACHINES. THOMAS E. MURRAY, Jr., and JOSEPH B. MURRAY, Brooklyn, N. Y. Filed July 3, 1920. Serial No. 393,863. 3 Claims. (Cl. 219—6.)



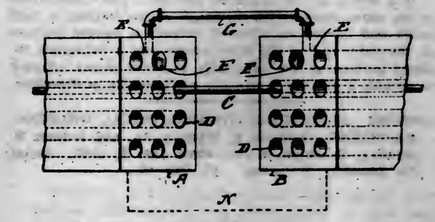
1. An electrode for electrical welding machines, comprising a body portion having a longitudinal recess receiving one of the objects to be welded, and projections therein supporting said object.

1,399,308. METHOD OF PRODUCING CONDUITS, &c. THOMAS E. MURRAY, Brooklyn, N. Y. Filed July 17, 1920. Serial No. 396,956. 2 Claims. (Cl. 25—126.)



1. The method of making progressively and in consecutive sections a conduit, which consists in, first, producing a helical wire coil; second, enveloping said coil in a wrapper of smooth flexible material; third, molding a wall of material in plastic state upon said wrapped coil as a core and allowing said material to harden; fourth, withdrawing said coil from its hardened envelop and supporting the same in contact with the end thereof with its longitudinal axis in prolongation of the axis of said envelop; fifth, applying to said withdrawn coil a wrapper of smooth flexible material; sixth, molding a wall of material in plastic state upon said last-named coil and allowing said material to harden in contact with the end of the wall of the conduit previously made, and seventh, withdrawing said coil and repeating the aforesaid steps until a conduit of desired length is obtained.

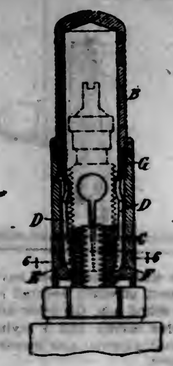
1,399,309. METHOD OF AND MEANS FOR COOLING ELECTRICAL CONDUCTORS WHEN INCLOSED IN CONDUITS OF CONCRETE OR THE LIKE. THOMAS E. MURRAY, Brooklyn, N. Y. Filed Jan. 28, 1921. Serial No. 440,821. 6 Claims. (Cl. 247—3.)



1. The method of cooling an electrical conductor disposed in a conduit of concrete, which consists in making said conduit of material pervious to liquid flow and causing said liquid to circulate through a duct in said conduit and to and through the portion of said conduit inclosing said conductor.

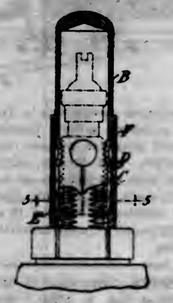
1,399,310. DUST-CAP. EUGENE V. MYERS, East Orange, N. J., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed Dec. 20, 1918. Serial No. 267,701. 9 Claims. (Cl. 152—12.)

1. A dust cap for tire valves or the like comprising a cap portion, movable members associated with said cap portion and provided with threads and a wedging member adapted to force said movable members inwardly, and a connection between said cap portion and said wedging member for moving the cap portion longitudinally of the



cap as the cap portion is rotated with relation to the wedging member.

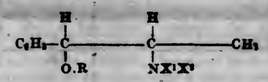
1,399,311. DUST-CAP. EUGENE V. MYERS, East Orange, N. J., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed Dec. 20, 1918. Serial No. 267,702. 5 Claims. (Cl. 152—12.)



1. In a dust cap or the like, means for engaging the tire valve casing, said means formed of substantially noncompressible material, and means for positively forcing said means into frictional contact with the valve casing, said forcing means being adjustable, so that the engaging means may be tightened by hand to a lesser or greater degree to hold the cap against direct or indirect longitudinal displacement on the valve casing.

1,399,312. SYNTHETIC ANESTHETIC AND PROCESS OF MAKING SAME. NAGAYOSHI NAGAI, Tokyo-fu, Japan, assignor to M. Dick Bunnell, San Francisco, Calif. Filed Mar. 28, 1916. Serial No. 87,323. 4 Claims. (Cl. 23—24.)

1. As a new compound, an organic acid ester of a mydriatin derivative; said compound having probably the formula



where R is an organic acid radical; X^2 is hydrogen, or an alkaryl group; and X^3 is an alkaryl group.

1,399,313. BOTTLE. LOUIS EUGENE NEWELL, Baltimore, Md., assignor to Carr-Lowrey Glass Company, Baltimore, Md. Filed Apr. 9, 1921. Serial No. 460,830. 3 Claims. (Cl. 215—1.)



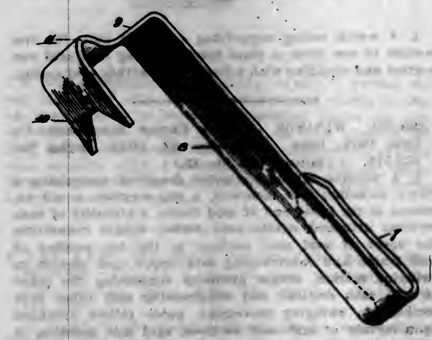
1. A bottle including a translucent wall containing a design and transparent ribs extending across said wall and intersecting the design.

1,399,314. TEST-INDICATOR. CHARLES H. NICHOLSON, Brooklyn, N. Y. Filed July 23, 1921. Serial No. 487,045. 4 Claims. (Cl. 33—172.)



4. A test indicator of the character specified comprising a longitudinally tapered casing, having a scale at the widest end, an indicating member having one end pivotally supported centrally of the casing and its other end provided with a pointer for coöperation with the scale end, a work engaging member pivotally supported at the opposite end of the casing and operating dogs pivoted to the casing on opposite sides of the pivoted end of the indicating member, said dog being offset relative to the axis of the member, and pin means provided on said dogs and adapted to be alternately engaged by the work engaging means for bringing said dogs into engagement with the indicating member whereby the scale-pointer means of the latter may be advanced along the scale means.

1,399,315. SHEET-METL FASTENER. CARLOS JUVENTINO OCAMPO, Los Angeles, Calif. Filed Apr. 1, 1920. Serial No. 370,459. 1 Claim. (Cl. 108—9.)



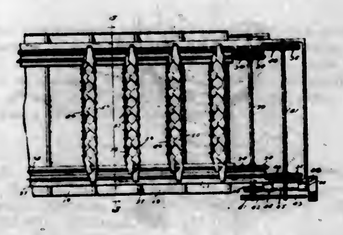
A sheet metal fastener comprising a shank having one end portion bent substantially at a right angle to form a shoulder adjacent the shank and terminating in a prong extending in the direction of the length of the shank parallel thereto; said bent portion being formed with an outwardly extending arch between the shoulder and the base of the prong, the prong being a continuation of one side of the arch and projecting beyond the end of the shank, the other end of said shank being bent and returned upon the shank on the side thereof opposite the prong to form a hook.

1,399,316. ADJUSTABLE FRAME FOR SAW-BLADES. NEILS D. OLSON, Waterloo, Iowa. Filed Feb. 17, 1921. Serial No. 445,762. 1 Claim. (Cl. 145—34.)



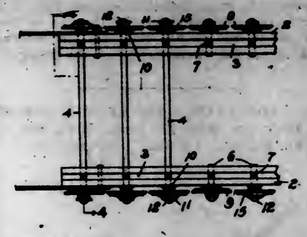
In combination, an elongated blade, a tubular holder therefor having a longitudinal slot to receive the back of said blade, and like adjustable securing-devices positioned at opposite ends of said holder, each comprising a threaded stem slidably mounted in the hollow thereof to project therefrom, said stem having its inner end bent and projected outwardly through said slot and bifurcated to receive said blade and having a plurality of engaging-means to fasten the blade releasably in adjusted positions angularly away from said holder, and sleeve-nuts on said threaded stems engaging ends of said holder for securing said stems and their bifurcations in desired positions of longitudinal adjustment.

1,399,317. FRUIT-SIZING APPARATUS. FLORENT JODON PEARSON, Troy, Ohio. Filed June 13, 1921. Serial No. 477,121. 5 Claims. (Cl. 130—32.)



1. In a fruit sizing apparatus, the combination of differentially moving bars, endless flexible members to which said bars are connected, each of said bars having an upstanding flange along one edge and having recesses along its other edge, the recessed edges of the bars coöperating to form series of fruit sizing apertures lengthwise of the bars.

1,399,318. GRAVITY-CARRIER. WILLIAM G. PRICE, Yakima, Wash. Filed Apr. 12, 1920. Serial No. 373,240. 5 Claims. (Cl. 64—17.)



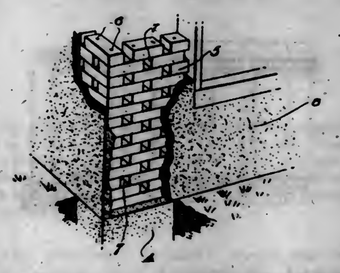
1. A wheel for gravity carriers comprising an annular disk, and a plurality of flat spoke members extending diametrally across the said disk and having their ends connected thereto.

1,399,319. FASTENING OF THE SPRING-SOCKETS OF PRESS-BUTTONS. AUGUST PRYM, Büsbach, near Stolberg, Germany. Filed Nov. 23, 1914. Serial No. 873,617. 1 Claim. (Cl. 24—218.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



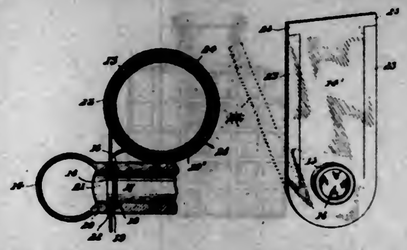
In a separable button, the combination with a socket plate having a turned over edge, a double shank wire spring rigidly held with its body underneath of said turned over edge in said socket plate, a perforated dome projecting from the middle of the plate provided with incisions, permitting a free movement of the elastic shanks of said wire spring acting on the interior of the dome, a cap, a hollow rivet on said cap and an outwardly flared flange on said rivet adapted to be inserted into the perforation of said dome and to be turned down around the edge of said perforation for tightly gripping the material between the cap and socket plate, substantially as described.

1,399,320. WALL CONSTRUCTION. ISRAEL F. RAUDABAUGH, Celina, Ohio. Filed July 30, 1920. Serial No. 400,028. 1 Claim. (Cl. 20—4.)



A wall including a skeleton comprising relatively small blocks arranged in horizontal rows with the blocks of each row spaced a substantial distance apart, the blocks of one horizontal row contacting with the blocks of adjacent horizontal rows and extending across the spaces between the blocks of adjacent horizontal rows.

1,399,321. CHARGE-HEATER FOR EXPLOSIVE-MOTORS. GEORGE A. RICHARDS, Pueblo, Colo. Filed June 5, 1920. Serial No. 386,847. 3 Claims. (Cl. 237—241.)



1. A charge heater for motors, comprising means for conveying heat from the exhaust manifold to the intake pipes of a motor, said means including a metallic plate having portions thereof cut-away for encircling the exhaust manifold, and a screen supported in said plate to be heated thereby and interposed between the intake pipe and intake manifold.

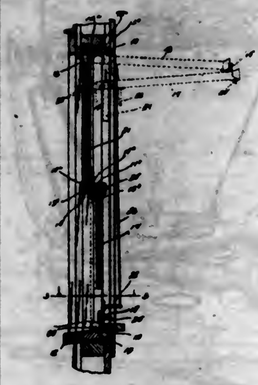
1,399,322. WATCHCASE. CHARLES ROTHEN, Geneva, Switzerland. Filed May 7, 1921. Serial No. 467,737. 6 Claims. (Cl. 58—88.) (Granted under the provisions of the act of Mar. 3, 1921, 14 Stat. L., 1313.)



1. A watch casing comprising a bottom with the rim portion in one piece, a glass bezel screwing into said rim portion and engaging with a dust sleeve within said casing.

1,399,323. WINDOW. ALFRED PETTER SCHOELLERMAN, Lake Park, Iowa. Filed Dec. 28, 1920. Serial No. 433,575. 3 Claims. (Cl. 20—42.)

1. A window of the character described comprising a frame including side members, a top member, a sill arranged at the lower end of said frame, a plurality of sash sections arranged within said frame, hinges connecting the upper of said sash sections to the top member of said frame and constraining said upper sash section to swinging motion, hinges pivotally connecting the other of said sash sections and constraining said other sash sections to swinging movement, guide rollers arranged upon certain of said sash sections, said side members of said frame having grooves operatively receiving said guide rollers, angular arms carried by the lowermost of said sash sections, weights operatively arranged in said frame, flexible elements connecting said angle arms and said weights, a handle carried by the lowermost of said



sash sections and sash locks carried upon certain of said sash sections and coöperating with said frame to secure said sash sections in closed position.

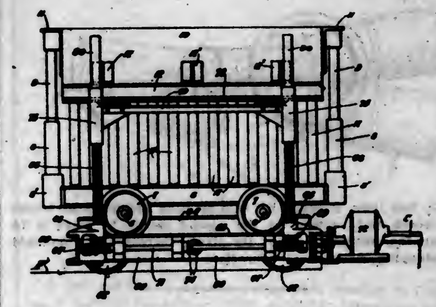
1,399,324. ARMORED PNEUMATIC TIRE. GEORGE M. STIVERS, Dixon, Calif. Filed Jan. 18, 1921. Serial No. 438,149. 2 Claims. (Cl. 152—16.)



1. The combination with a tire having a median rib and side ribs, of a split circumferential shield having an inner groove to receive the median rib of the tire and having side flanges abutting the side ribs of the tire, said shield having external circumferential grooves upon opposite sides of its median line, and endless cables detachably seated and normally held within said grooves by the pressure of the tire.

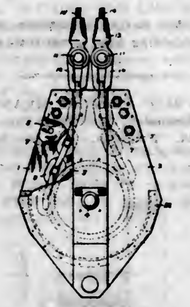
1,399,325. MACHINE FOR MAKING BUILDING-BLOCKS. FRANCIS J. STRAUB, New Kensington, Pa. Filed Nov. 15, 1920. Serial No. 424,133. 24 Claims. (Cl. 250—41.)

1. Apparatus for molding plastic blocks comprising a movable mold, a filling device beneath which the said mold is adapted to pass, a press beneath which the movable mold is adapted to pass, and a movable stripping device supported on trucks for receiving and transporting the molds and for stripping the blocks from the mold



after the mold has been moved from beneath the press and received by said stripping device.

1,399,326. CABLE-EQUALIZER. GORHAM A. TAYLOR, Duluth, Minn. Filed Jan. 17, 1921. Serial No. 437,781. 2 Claims. (Cl. 254—135.)

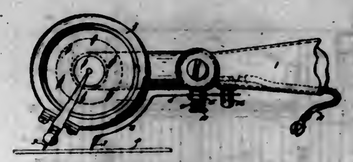


1. The combination with the termini of two pulling lines having a sheave block adjacent said termini, of a chain reeved about the sheave within the block and attached to the ends of the lines, and means coöperatively connected with said attachment to prevent either end of the chain being pulled through the block.

1,399,327. PHONOGRAPH-STOP. EDWARD J. TOMLINSON, Newark, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Filed Oct. 27, 1919. Serial No. 333,800. 5 Claims. (Cl. 192—116.)

3. In a phonograph, the combination of a sound record body, motor means for driving said sound record body, a tone arm carrying a reproducer having a playing needle, means for stopping said motor means and a second needle normally out of engagement with the sound record body for actuating the stopping means but pivotally mounted on the tone arm for movement in two directions, means independent of the tone arm for holding said second needle from movement toward the sound record until

after the record has been played and then releasing it, means carried on the tone arm for moving the second needle about its pivot onto the sound record body after



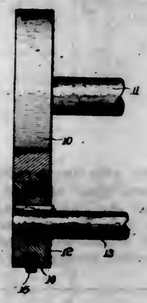
it has been released by said holding means, said sound record body acting on the second needle to move it in another direction about its pivot whereby it brings said stopping means into operation.

1,399,328. RESILIENT HEEL AND TREAD-INSERT. HARVEY H. TROXEL, Ashland, Ohio. Filed Aug. 7, 1920. Serial No. 401,846. 9 Claims. (Cl. 36—59.)



1. A resilient heel having a fastener, and a relatively movable fastener driving head constituting a tread insert for the heel.

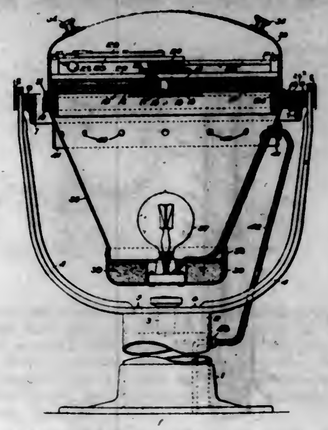
1,399,329. NON-SLIP DRIVING MEANS. ROBERT O. VANDERCOOK, Evanston, Ill. Filed June 16, 1921. Serial No. 477,954. 7 Claims. (Cl. 74—26.)



1. The combination with two members having rolling engagement and continuously in contact, one of said members having a depression, of elastic friction material in said depression to be compressed during engagement of said members to prevent slippage between them.

1,399,330. PELORUS. WILFRID O. WHITE, West Newton, Mass. Filed Oct. 17, 1918. Serial No. 258,570. 11 Claims. (Cl. 33—72.)

1. A pelorus of the class described comprising a frame, a universally mounted inner ring thereon having a cover, a compass dial with illuminated characters beneath the



cover and means carrying the dial and extended above the cover for independently rotating the dial.

1,399,331. VEHICLE-WHEEL. GEORGE B. BELL, Cambridge, Mass., assignor to Sarah L. Bell, Cambridge, Mass. Filed Feb. 8, 1921. Serial No. 443,323. 4 Claims. (Cl. 152—8.)



4. A vehicle wheel embodying therein a felly, a resilient rim constructed in two parts fast to the opposite sides of said felly, each of said parts embodying therein a flange, said flanges coöperating with said felly to form a peripheral groove extending around said felly, a strip fast to each of said flanges provided with corrugations formed thereon, a helical spring extending around said rim within said groove and seated in said corrugations and means for retaining said helical spring within said groove and corrugations.

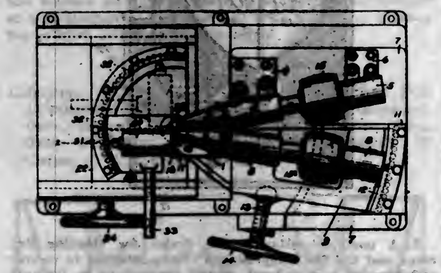
1,399,332. FLIER FOR ROVING-FRAMES AND OTHER LIKE TEXTILE APPARATUS. LEON W. CAMPBELL, Barre Plains, Mass. Filed Dec. 21, 1920. Serial No. 432,183. 7 Claims. (Cl. 118—57.)



2. In a flier for roving-frames, the combination of a member adapted to be mounted on the bolster-spindle, a

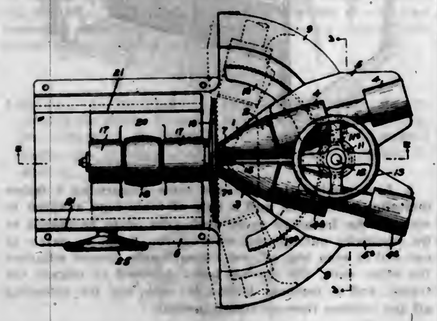
vertical rod journaled in a bearing on said member, a presser carried at the lower end of the rod to adapt it to swing outwardly from the axis of the spindle, a weight, a cord for suspending the weight on the member, and means to connect the cord to the rod to resist the turning movement of the latter by the action of gravity on the weight.

1,399,333. MILL FOR ROLLING TAPERED DISKS. ARNOLD CHRISTIANSON, Detroit, Mich., Filed July 21, 1920. Serial No. 397,956. 8 Claims. (Cl. 80—16.)



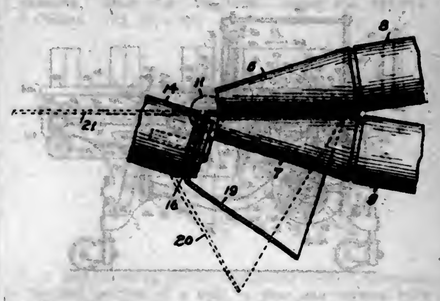
2. In an apparatus for converting metallic cups into disks, the combination of rolls arranged one to bear on the inside and the other on the outside of the cup and receiving the cup walls therebetween, said rolls being arranged to exert the greatest rolling action on the cup walls at the open end and a gradually reducing rolling action toward the bottom thereof, means engaging the bottom of the cup and holding the same in position between the rolls, said means being arranged to vary its angular position in relation to the pass between the rolls as the cup is progressively flared and means to adjust said rolls to vary the rolling pressure to a greater extent at the open end of the cup than toward its bottom.

1,399,334. MILL FOR ROLLING TAPERED DISKS. ARNOLD CHRISTIANSON, Detroit, Mich. Filed July 21, 1920. Serial No. 397,957. 6 Claims. (Cl. 80—16.)



4. In apparatus for converting metallic cup-shaped blanks into disks, the combination of a rotary blank holder to which the bottom of the blank is secured, a spinning roll adapted to enter the cup-shaped blank, means for progressively changing the angle of the axis of the spinning roll relative to the axis of the blank holder, and a carriage movable toward and from the spinning roll and provided with bearings for the rotary blank holder.

1,399,335. METHOD OF FORMING WHEEL-DISKS. ARNOLD CHRISTIANSON, Detroit, Mich. Filed July 21, 1920. Serial No. 397,958. 8 Claims. (Cl. 29—159.)



1. The method of making disks which consists in forming a metallic cup-shaped blank, rotatably supporting said blank by its bottom, and subjecting the same to a circumferential rolling action to reduce and expand the same, such reducing and expanding action being greatest at the open end of the cup and decreasing toward its bottom, thereby increasing the diameter of the cup in a uniformly increasing degree from the bottom of the cup to its open end and producing a disk of gradually decreasing thickness from its central portion to its perimeter.

1,399,336. INTERIOR DECORATIVE FINISH. ALBION P. COLE, Brockton, Mass. Filed Jan. 6, 1921. Serial No. 435,537. 2 Claims. (Cl. 106—36.)

1. In a composition of matter, for interior decorative finish, a main or body portion of wood pulp, flour for an adhesive, petrolatum for permanent resiliency, and glycerin as a non-drier, the colorings being derived from the natural coloring of the wood pulp.

1,399,337. TOOTH FOR STEAM-SHOVELS. ROBERT REX DOWNIE, Beaver Falls, Pa., assignor to Keystone Driller Co., Beaver Falls, Pa., a Corporation of Pennsylvania. Filed Feb. 28, 1920. Serial No. 361,927. 4 Claims. (Cl. 37—56.)

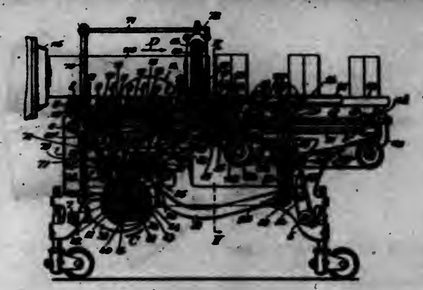


1. A tooth for steam shovels, comprising a basic portion terminating at the forward end in a taper nose, a cap for the nose having a cavity of larger dimensions than the nose, to accommodate liners or shims, with the nose and cap provided with approximately registering holes, and a pin for traversing the holes when the liners are applied, whereby to cause a tight wedging fit of the cap through the liners to the nose.

1,399,338. BLOCK-PRESS. ERNST FREY, Chur, Switzerland. Filed Oct. 7, 1920. Serial No. 415,343. 6 Claims. (Cl. 25—107.)

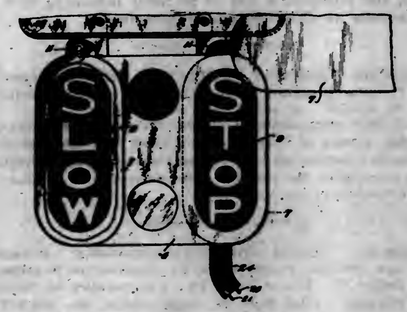
1. In an apparatus for cutting bricks, tiles and the like, means to support a plastic bar on being expressed through a die, a cutting device with one cutting member, means to operate said cutting device, a carriage upon which said cutting device is mounted adapted to move with the same speed as the expressed bar during the cutting action, means to impart motion to said carriage for shifting every ele-

ment severed from said bar after the cutting action is completed to form a narrow gap between said element and the



bar, means to return the cutting device through said gap into the operative position, and means to remove the severed element from the carriage.

1,399,339. VEHICLE-SIGNAL. Jacob G. Freeman, Chicago, Ill. Filed Dec. 28, 1920. Serial No. 433,643. 8 Claims. (Cl. 116—42.)



1. In a signaling device, the combination of a signal box, a signal therein, a cover for said signal, means for positively actuating said cover to open the same, latch means to temporarily lock the cover in open condition, and means for releasing the latch means.

1,399,340. FACIAL MASSAGE DEVICE. Hazel E. Gray, Little Silver, N. J. Filed June 23, 1920. Serial No. 390,992. 3 Claims. (Cl. 128—62.)



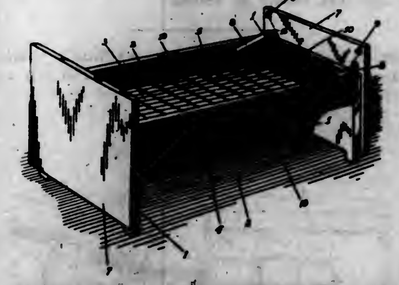
1. As an article of manufacture a massage device comprising a substantial bar of wax-like material having an enlarged end portion at one end and a smaller cupped portion at the other end thereof.

1,399,341. MOP-CLEANING DEVICE. Agnes B. Gaynes, Los Angeles, Calif. Filed Jan. 14, 1921. Serial No. 437,212. 7 Claims. (Cl. 15—12.)



5. A portable self-contained device for cleaning dry mops and the like comprising a casing adapted to receive and support a mop head, means adapted to be inserted at a plurality of places between the strands of the mop head, a source of power and transmitting devices for causing said means to oscillate back and forth between the strands to shake the dust therefrom, a conical receptacle into which the dust falls, a container, and means for conveying the dust from the receptacle to said container.

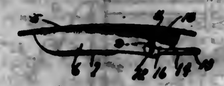
1,399,342. COMBINATION BED, TABLE, AND SETTEE. Charles H. Gunn, Oakland, Calif. Filed Jan. 22, 1921. Serial No. 439,070. 2 Claims. (Cl. 5—17.)



2. In a combination bed and table comprising a frame inclosing a bed area and a pair of table tops adapted to rest on the frame to cover such area or to be moved to lie vertically outside the ends of the frame, a catch at one end of each top, catches on each side thereof adjacent the other ends, the catches being adapted to engage the frame, and a common means in each top for releasing all the catches thereon simultaneously.

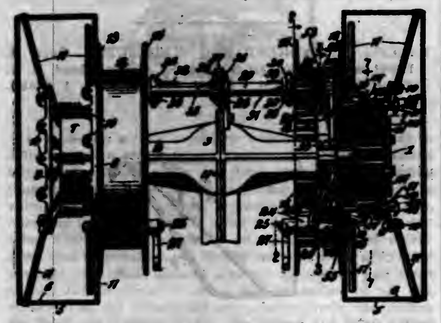
1,399,343. BUCKLE. Walter E. Guyot, Attleboro, Mass., assignor to Morse-Andrews Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Mar. 30, 1921. Serial No. 456,921. 6 Claims. (Cl. 24—191.)

1. A buckle comprising a body portion, a clamp member pivotally supported in said body and having two separated relatively rigid clamping edges located at different distances from the pivotal axis of said member, each edge being adapted to clamp a belt independently of the other edge whereby belts of widely different thick-



nesses may be retained in said body, and a free swinging bail member pivotally mounted on said clamp independent of the clamp-pivot and provided with means for limiting the relative swinging of said clamp.

1,399,344. POWER-DELIVERING ATTACHMENT FOR AUTOMOBILE-TRACTORS. Leo Haubert, Muskogee, Okla., assignor of one-half to John A. Wolfe, Tulsa, Okla. Filed Mar. 24, 1920. Serial No. 368,251. 20 Claims. (Cl. 254—166.)



1. A power delivering attachment for a motor vehicle having a drive axle, comprising substitute traction wheels and a carrier for each wheel separate therefrom and adapted to be applied to and removed from and receive power from the axle, each of said carriers being mounted on and fixed to the axle and provided with means whereby the substitute wheel may be tightened to the carrier and loosened therefrom, and each carrier having means from which power may be taken.

1,399,345. CLOSURE-PLUG FOR TANKS. Paul Henry, Neuilly-sur-Seine, France. Filed June 22, 1920. Serial No. 390,961. 2 Claims. (Cl. 220—40.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



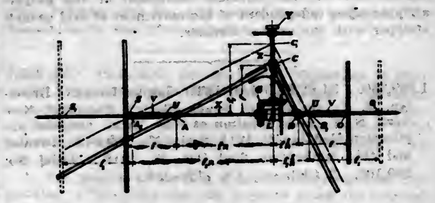
1. A closure plug for tanks comprising a cylindrical cap closed at its ends and having a plurality of peripheral openings, a rod axially fixed in the cap, a head slidable on the rod and provided with projections extending through the peripheral openings, and a spiral spring surrounding the rod between the head and one end of the cap.

1,399,346. HEEL FOR FOOTWEAR. Strauss Jamoulos, Boston, Mass., assignor to The Eureka Metal Heel Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 10, 1920. Serial No. 423,014. 3 Claims. (Cl. 36—40.)



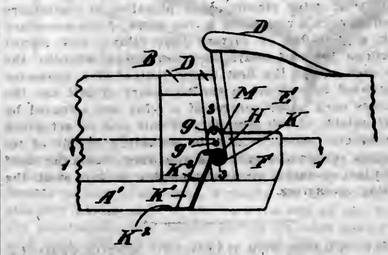
1. A heel-fastening device comprising a plate securable to the heel portion of a boot or shoe and formed with a central group of apertures, and a cup formed with tongues extending through and secured in said apertures and adapted to hold a nut in position to engage with said plate.

1,399,347. FOCUSING DEVICE. August F. Jobke, Pittsburgh, Pa. Filed Aug. 11, 1920. Serial No. 402,862. 6 Claims. (Cl. 88—24.)



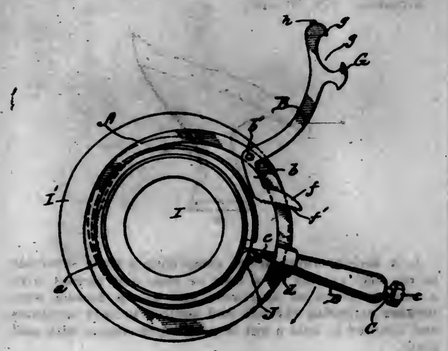
1. In a focusing device a lens and a right angle lever, having its fulcrum at the right angle, stationary relative to the lens in the direction of its axis, variable relative to and located from a plane through the optical axis at a distance of the focal length, the arms of the lever at the intersection with the said plane on a parallel to the optical axis cutting at extra-focal distances for the focal length from the intersection of a normal from the fulcrum to the said parallel.

1,399,348. VEHICLE. John C. Jones, Brookline, Mass. Filed Aug. 11, 1920. Serial No. 402,826. 5 Claims. (Cl. 296—75.)



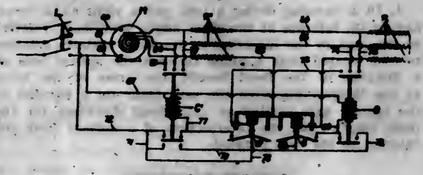
1. A vehicle having a storage compartment and a foot-rest, the latter serving as a wall for said compartment, the ends of the foot-rest extending forwardly with relation to the center of the foot-rest.

1,399,349. JAR-OPENER. RAYMOND A. KEMPER, Ramsey, N. J. Filed Apr. 2, 1918. Serial No. 226,848. 11 Claims. (Cl. 81—3.1.)



1. A jar opener embodying a carrier member, and a gasket stripper supported by said carrier member, said gasket-stripper being shiftable at will relatively to the carrier member, the shiftable movement of the gasket-stripper being independent of the movement of said gasket-stripper with the carrier member.

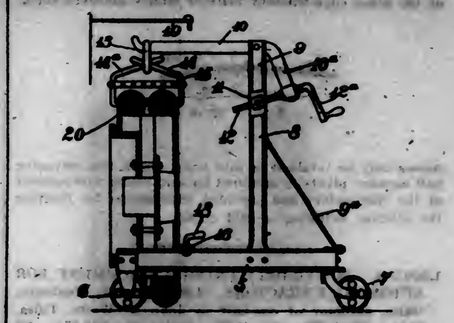
1,399,350. ELECTROMAGNET. LOUIS LARSEN, Brooklyn, N. Y., assignor to Sundh Electric Company, New York, N. Y., a Corporation of New York. Original application filed Jan. 2, 1918, Serial No. 209,842. Divided and this application filed Oct. 29, 1918. Serial No. 260,102. 3 Claims. (Cl. 172—289.)



3. In a control system for polyphase induction motors, the combination, with the motor and resistances in the secondary or rotor circuit, of a plurality of contactors controlling each a resistance in the wires of the secondary circuit, a plurality of current-limit relays, and circuit connections for the relays and contactors whereby the relays each except the first under control of a contactor are actuated by current in the secondary circuit and the contactors each under control of a relay are actuated by current outside of the secondary circuit and on actuation each contactor short-circuits the actuating circuit of its controlling relay and establishes a holding circuit for itself and the last contactor opens the holding circuits of all the preceding contactors.

1,399,351. CRANE FOR HANDLING MOTOR-VEHICLE WHEELS. WILLIAM E. LEE, Columbus, Ohio. Filed Sept. 23, 1919. Serial No. 325,628. 6 Claims. (Cl. 212—140.)

1. A crane for handling a motor car wheel comprising, in combination, a base, a post thereon, a crane arm fulcrumed in the post, said arm having means for engaging and sustaining the wheel at its upper portion including



a journaled threaded block, and a screw swiveled in the crane arm turning in said block.

1,399,352. HEADREST FOR BATHTUBS. SAUL S. LEFFLER and RUDOLPH R. HATTON, Coney Island, N. Y. Filed July 26, 1920. Serial No. 398,989. 1 Claim. (Cl. 4—2.)



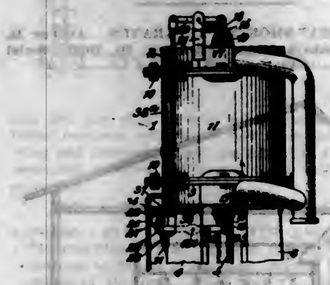
A head rest for bath tube including a supporting structure equipped with upstanding slidable arms, a pillow, and angle straps adjustably connecting said arms and pillow to permit angular retention of the latter.

1,399,353. CARBURETER. CHARLES C. LITTLE, San Jose, Calif. Filed Mar. 19, 1919. Serial No. 283,457. 8 Claims. (Cl. 261—12.)



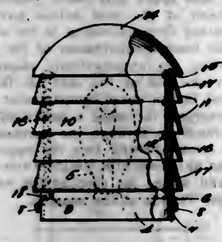
1. A combined vaporiser and carbureter including a heating medium conducting chamber having an inlet and outlet, fuel conduits extending through the chamber between the inlet and outlet, a by-pass arranged in the wall of the chamber between the inlet and said conduits and adapted to place the interior of the chamber in communication with the atmosphere, a valve mounted in the by-pass for controlling the passage of heating medium from the chamber to the atmosphere, an adjustable deflector mounted in the chamber for directing heating medium into one or more of said conduits, and means connecting the valve and deflector, the valve, deflector and means connecting the same being so arranged that opening of the valve will cause the deflector to direct heating medium on an increasing number of conduits.

1,399,354. DOUBLE-ACTING FOUR-CYCLE EXPLOSION-ENGINE. CHARLES O. LOUREUS, Manistee, Mich. Original application filed Jan. 29, 1920, Serial No. 354,066. Divided and this application filed Aug. 16, 1920. Serial No. 404,538. 2 Claims. (Cl. 123—63.)



1. A double-acting explosion engine provided with a cylinder and a single piston therein, the cylinder having inlet and exhaust ports for both ends thereof, spring controlled valves for the ports, rocker arms engaging the valves at one end of the cylinder, other rocker arms, engaging the valves at the other end of the cylinder, still other rocker arms connected to the first named rocker arms and adjacent to the second named rocker arms, and a single cam shaft located between the second and third named rocker arms to cause the actuation of all the rocker arms for alternately and consecutively controlling the inlet and exhaust valves, the second and third named rocker arms being pivoted independently of each other on the engine.

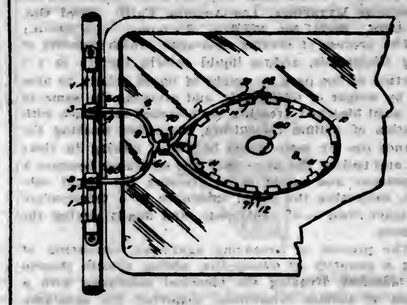
1,399,355. LIGHT-DEFLECTOR. JAMES A. LOVELAND and MERRITT L. FISHER, Kalamazoo, Mich. Filed Mar. 22, 1920. Serial No. 367,702. 3 Claims. (Cl. 240—11.)



1. A device of the class described comprising a body portion including a plurality of superposed spaced deflectors, a source of light within the body portion, each deflector having an inwardly extending apertured portion, and means extending through said apertured portions of the deflectors for securing them in position.

1,399,356. GLARE-REFLECTOR. EDWARD C. LYTLE, Watertown, N. Y. Filed Feb. 24, 1921. Serial No. 447,399. 2 Claims. (Cl. 296—97.)

1. A glare reflector for automobiles comprising the following elements in combination; a bifurcated frame, a vertical supporting rod, operative connections that join the bifurcated frame to the rod for vertical and horizontal adjustment, the said bifurcated frame including portions bent toward each other and terminating in angled extensions clamped together to constitute a horizontal bearing, a second bifurcated frame, having the outer ends

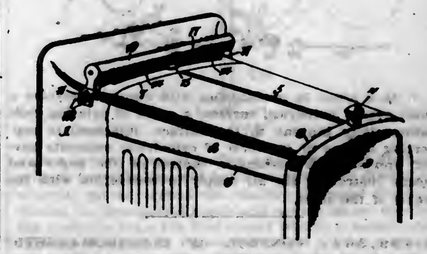


of the spread members joined to form a socket for engaging the aforesaid bearing, to provide for vertically swingable adjustments of said second frame, and a glare reflector supported between the separated ends of the said second frame and operative connections between the glare reflector and the said second frame to provide for sustaining the said glare reflector.

1,399,357. PROCESS OF MAKING COLORED NITROCELLULOSE COMPOSITIONS. LESTER J. MALONE, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y. a Corporation of New York. Filed Apr. 20, 1921. Serial No. 463,092. 4 Claims. (Cl. 8—5.)

1. The process of making a colored nitrocellulose composition, which comprises the steps of dying the nitrocellulose fibers and then dissolving said dyed fibers in a nitrocellulose solvent.

1,399,358. RAINPROOF HOOD-COVER FOR AUTOMOBILES. GEORGE F. MANSFIELD, Pascagoula, Miss. Filed Apr. 11, 1919. Serial No. 289,397. 1 Claim. (Cl. 180—69.)



A rainproof cover for an automobile hood, comprising a flexible section, a spring roller to which one end of the flexible section is attached, a casing for the spring roller attached at its ends to the forward end of the body of the automobile, said casing having an edge spaced from said body and provided with a bead, the upper side of the flexible section engaging the said bead when the section is being withdrawn from or returned to the casing, and a watershed provided on the rear of the casing, said watershed comprising a strip of flexible waterproof material and adapted to bear upon the body portion of the vehicle to divert water from beneath the casing,

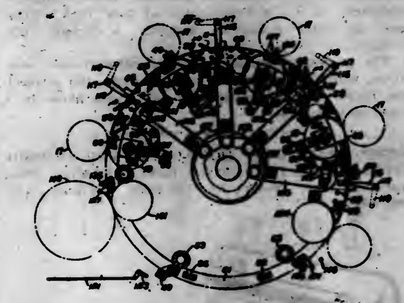
said flexible section having a stiffening strip at the outer edge, said stiffening strip engaging between said bead and said hood when the section is wound upon the spring roller.

1,399,359. PROCESS FOR MAKING AGAR-AGAR. CHOKICHI MATSUOKA, Los Angeles, Calif. Filed Oct. 10, 1918. Serial No. 257,672. 2 Claims. (Cl. 99—9.)

1. The process of making agar-agar, which consists of drying *Gloiopeltis*, adding liquid chlorin thereto in the proportion of one part by weight of liquid chlorin to nine parts by weight of *Gloiopeltis*, and allowing the same to stand until bleached, treating the bleached substance with a solution of sodium thiosulfate, thereafter washing the substance one or more times in water, placing in clear water and boiling the same until the substance becomes a homogeneous and viscid mass, freezing the viscid substance, subjecting the viscid substance to a temperature not higher than −5° centigrade, and finally drying the substance.

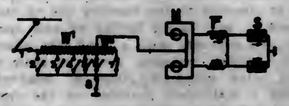
2. The process of preparing agar-agar, consisting of drying a quantity of *Gloiopeltis*, adding chlorin thereto until bleached, treating the bleached substance with a solution of sodium thiosulfate, removing the substance from the solution and washing the same in clear water, subjecting the cleansed substance to the action of heated water until a homogeneous and viscid mass is obtained, freezing the viscid mass, and finally trying the same with sun heat.

1,399,360. PRINTING-PRESS. CHARLES A. MIESSE, Dorchester, Mass., assignor to Meisel Press Manufacturing Company, Dorchester, Mass., a Corporation of Massachusetts. Filed Apr. 19, 1919. Serial No. 291,216. 46 Claims. (Cl. 101—184.)



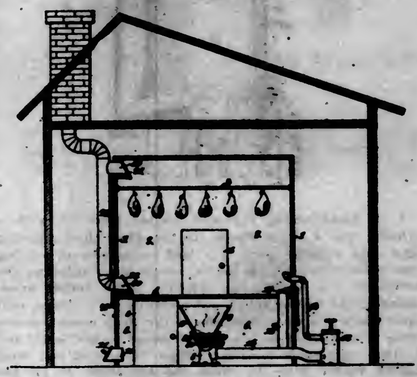
1. In a press, in combination with means to revolve a sheet over a cylindrical surface, a series of printing rolls substantially tangent to the surface, intermediate supporting devices in the form of cylindrical segments having provision for pneumatic control of the paper and means controlling the air supply in correlation with the travel of the sheet.

1,399,361. CONTROL OF ELECTROMAGNETIC TRACK-BRAKE SYSTEMS. GOTTLIEB L. METTARTH, Geneva, Switzerland. Filed Sept. 18, 1919. Serial No. 324,678. 2 Claims. (Cl. 188—159.)



1. A method of controlling electro-magnetic track brakes on electrically propelled railway and tramway vehicles of the kind wherein the track brakes are adapted to be operated by current supplied from the vehicle motors acting as generators with or without an additional supply of current from the propulsion circuit, which method consists in including, during the short-circuit braking, the usual motor starting resistance only in the motor short-circuit in series with the track brakes, while, on changing over to short-circuit braking with additional supply circuit current, an additional resistance is connected in the closed motor and track brake circuit and put in series with the starting resistance between the supply circuit conductor and earth, substantially as and for the purpose described.

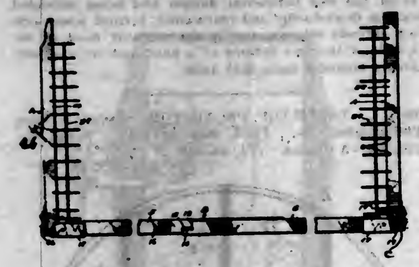
1,399,362. MEAT-SMOKING APPARATUS. AUGUST M. MILLER, Mankato, Minn. Filed Oct. 20, 1920. Serial No. 418,211. 4 Claims. (Cl. 99—2.)



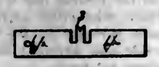
1. In a smoking apparatus of the character described, a housing having a solid horizontal partition whereby upper and lower compartments are provided, means in the upper compartment for suspending the articles to be smoked, a smoke stack, the latter having a connection which extends into the upper end and a connection which extends into the lower end of the upper compartment of the housing, automatically closing valves engaging the intakes of the said upper and lower connections to the smoke stack, each of the said valves having attached means for operating them extending to the outside of the smoke house, the lower compartment of the housing having an air intake, an automatically closing valve located on the intake end of the said air inlet, a smoke generator located in the lower compartment of the housing, the said generator including a smoke outlet having a branch that extends up through the horizontal partition for leading the smoke directly into the upper or smoking compartment, an automatically closing valve for the said smoke outlet, and means for opening the valve at times operable from the outside of the housing.

1,399,363. COLLAPSIBLE CAMP-BED FRAME. FRANKLIN A. MILLER and BERTRAND M. TANNER, St. Anthony, Idaho. Filed Dec. 28, 1920. Serial No. 433,685. 2 Claims. (Cl. 5—5.)

1. A bed bottom comprising a pair of completely separable sections, each having a transversely extending end frame member and a pair of longitudinally extending side rails, studs carried by the side rails of one pair, notches formed in the ends of the side rails of the other pair adapted to engage said studs, horizontally overlapping portions upon the side rails of the opposed pairs which limit downward rocking movement of the two sections to a position where the side rails lie in substantial alinement with each other, legs pivotally connected to the end members and adapted to fold upwardly therebeneath and in parallelism therewith and hinge connections between the end frame members and the side rails for permitting the side rails to fold in parallelism with the end frame members, portions of said hinge connections overlying and abutting against the legs when the parts are in assembled relation to thereby hold said legs against movement.

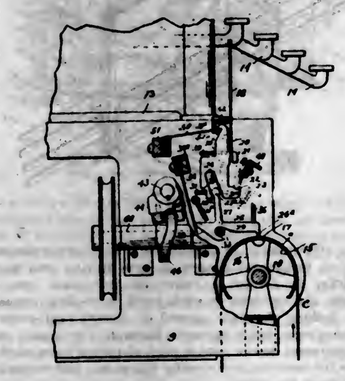


1,399,364. ELECTRICAL SWITCH AND METHOD OF PRODUCING SAME. ARCHIE OAKES, Detroit, Mich., assignor to Square D Company, Detroit, Mich., a Corporation of Michigan. Filed May 17, 1918. Serial No. 235,061. 14 Claims. (Cl. 200—172.)



4. An electrical switch blade having an upwardly extending rivet member formed integrally therefrom and projecting beyond the upper longitudinal edge of the blades.

1,399,365. MECHANISM FOR AUTOMATICALLY OPERATING TYPEWRITER-LEVERS AND THE LIKE. JOHN H. PILLINGS, Hamilton, Ohio. Filed Feb. 7, 1921. Serial No. 442,096. 6 Claims. (Cl. 197—20.)



1. In mechanism of the character described, the combination of a vertical plate, guiding means therefor permitting vertical movements and movements forward and backward, a pivoted lever having a prong at its end, a controller supporting device having a recess below said prong, connections between the plate and lever such that the downward movement of the prong end of the lever will displace the plate forward, and that the downward movement of the plate will lift the pronged end of the lever and means to move the plate downward when it has been displaced forwardly.

1,399,366. TIMER. SILAS E. SELLECK, Cold Spring, N. Y., assignor of one-third to Theodore J. Selleck, Cold Spring, N. Y. Filed Mar. 17, 1920. Serial No. 366,525. 2 Claims. (Cl. 200—27.)



1. In a current distributer the combination with a frame, a circular insulator in the frame and contact points in said insulator, with a floating ring, a cup attachment to the ring and a pivot in the apex of the cup, a shaft extension within the frame, an eccentric, a block fitting a diametral slot in the eccentric, the block fast on the shaft, the eccentric being slidably adjustable on the block, and the eccentric in the slot space, and a ball-bearing peripheral ring on the eccentric.

1,399,367. SODA-FOUNTAIN FAUCET. CARL U. SENTER, Los Angeles, Calif. Filed July 28, 1921. Serial No. 488,200. 1 Claim. (Cl. 225—27.)



In a faucet, a nozzle having a narrow center discharge conduit for squirting and having a number of discharging conduits spaced around the conduit, a second nozzle inclosing the first-named nozzle and having larger discharging facilities than the first-named nozzle, a hollow shaft turnably disposed in the second-named nozzle, propelling wings on the shaft within the second-named nozzle to be actuated by the flow passing through the second-named nozzle from the discharging conduits in the first named nozzle and stirring wings provided on the outer free end of the shaft.

1,399,368. BRUSH. FREDERICK A. SHELTON, Chicago, Ill. Filed Jan. 7, 1921. Serial No. 435,584. 3 Claims. (Cl. 15—16.)

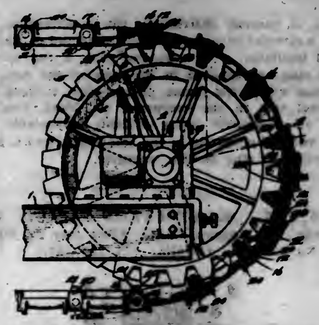
3. A brush comprising a body member provided with an opening, a bristle bearing member provided with an opening, a threaded member passing through said openings,

and wires for fastening said bristles in said bearing member and forming projections on the back of the bristle



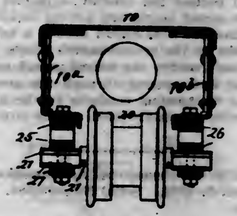
bearing member to engage the body member and assist the threaded member to retain said bristle bearing member in proper position on said body member.

1,399,369. ENDLESS-TRACK MECHANISM FOR VEHICLES. ARTHUR B. WOOD, Chicago, Ill., assignor to William N. Smith, Chicago, Ill. Filed Nov. 17, 1919. Serial No. 338,476. 6 Claims. (Cl. 305—10.)



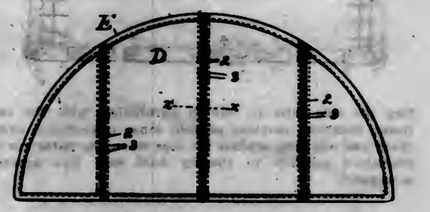
1. An endless track for vehicles formed of a plurality of links each having an inwardly projecting tooth at each end; in combination with a gear wheel having teeth with one of which one tooth upon a link has driving engagement when the track is moving in one direction, another tooth of said gear wheel engaging the other tooth upon the same link with the last aforesaid link tooth upon reversal in the direction of the track travel, the teeth upon similar ends of the links being arranged in one zone while the teeth upon the remaining ends of the links are arranged in another zone spaced apart from the first zone; and ribs between the teeth of the gear wheel and substantially midway between the ends of these teeth that move in the space between the aforesaid tooth zones.

1,399,370. TRACK-LAYING TRACTOR. ROLLIN H. WHITE, Cleveland Heights, Ohio, assignor to The Cleveland Tractor Company, Euclid, Ohio, a Corporation of Ohio. Filed Oct. 11, 1919. Serial No. 329,963. 1 Claim. (Cl. 305—9.)



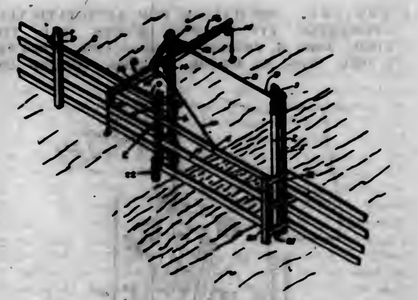
In a track laying tractor, the combination of a track frame having two parallel spaced apart side beams which are respectively provided along their lower edges with horizontal flanges which extend toward each other, a plurality of pairs of leaf springs, the two springs of each pair being at corresponding ends clamped to the under faces of the two horizontal flanges and being extended therefrom downwardly and rearwardly, a track wheel axle which extends between and is nonrotatably fixed to the free ends of the two springs of a pair, and track wheels rotatably mounted upon said axles.

1,399,371. TABLE-TOP PROTECTOR. OSCAR WINTER, Philadelphia, Pa. Filed May 3, 1917. Serial No. 166,208. 5 Claims. (Cl. 65—53.)



1. The combination in a table top protector having two outer sheets of flexible material, of a plurality of sections of non-heat-conducting sheets slightly separated from one another at their adjacent edges and arranged between said outer sheets, a row of stitches passed through the two outer sheets on the folding line between the adjacent edges of the non-heat-conducting material, and rows of stitches, 3, 3, passed through all the sheets of material one row on each side and adjacent to a folding line or hinge, for the purpose set forth.

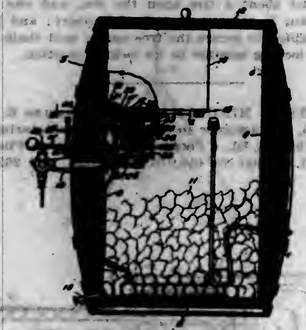
1,399,372. FARM-GATE. ALBERT OLTMAN, Eureka, Ill. Filed Jan. 17, 1920. Serial No. 352,044. 2 Claims. (Cl. 39—48.)



1. In a sliding gate, in combination, two tracks disposed in different horizontal planes, a gate having end posts, which differ in height, a roller on each post, one for each track, obstructions on each track near their opposite ends for locking the gate opened or closed, said obstructions comprising bolts secured through the tracks and having abutment heads, and a pair of cables connected to said gate for opening and closing the same, and extending laterally from the gate.

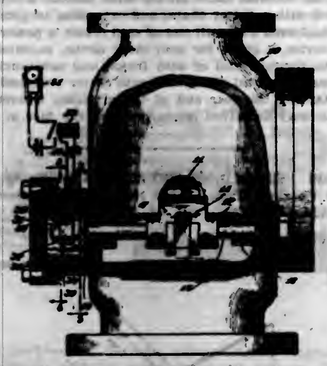
1,399,373. DISPENSING APPARATUS. CHARLES L. BASTIAN, Chicago, Ill. Filed May 13, 1921. Serial No. 469,838. 6 Claims. (Cl. 225—26.)

1. A dispensing apparatus comprising a charging tank, means for maintaining a predetermined level of syrup in said tank, a draft arm having a handle lever, a measuring cup in the charging tank connected with said draft arm, and means connecting said handle lever with the cup whereby the cup may be raised to clear the level of the



syrup in the charging tank when the handle lever is moved to open the syrup passage in the draft arm and thereby permit the flow of a measured charge of syrup from the charging tank through the draft arm.

1,399,374. ALARM-VALVE FOR AUTOMATIC FIRE-EXTINGUISHING SYSTEMS. ERIC E. BIRKLAND and GUNNAR O. LILJEGREN, Chicago, Ill.; said Birkland assignor to said Liljegren. Filed July 24, 1920. Serial No. 398,697. 6 Claims. (Cl. 169—23.)



2. In a device of the class described, a casing having a valve mounted therein on a suitable hinge-pin, an oscillating case on the hinge-pin having an unrestricted chamber provided with a by-pass, terminals of an electric circuit in the chamber, a mercury column in the chamber to open and close the circuit through the terminals when the case is oscillated on the pin, a time delay relay in the circuit, an alarm controlled by the relay, a rock-arm on the hinge-pin normally restraining the oscillation of the case, and a spring to oscillate the case when the rock-arm is moved away from the case.

1,399,375. SPARK-PLUG. GEORGE R. BLODGETT and MOSES E. CHENEY, Brooklyn, and ROY T. HURLEY, New York, N. Y. Filed Oct. 22, 1921. Serial No. 509,483. 4 Claims. (Cl. 123—169.)

1. In a spark plug adapted for use in connection with cylinders of internal combustion engines having a compression ratio lower than 5 to 1, the combination of an electrode and a shell provided with a space, to be filled with gas from the cylinder, surrounding the electrode and adjacent parts, and a restricted orifice adapted to connect the space with the cylinder of an engine, the relative proportions of the volume of the space within the spark plug and the effective area of surface of the walls of



said space and the cross-sectional area of the orifice to one another being substantially as follows: the volume of said space being within about 1.75 cubic centimeters to about 1.25 cubic centimeters, the effective area of surface of the walls of said space being within about 43. square centimeters to about 20. square centimeters, and the cross-sectional area of the orifice being within about 0.10 square centimeters to about .20 square centimeters.

1,399,376. SPARK-PLUG. GEORGE R. BLODGETT and MOSES E. CHENEY, Brooklyn, and ROY T. HURLEY, New York, N. Y. Filed Oct. 22, 1921. Serial No. 509,482. 4 Claims. (Cl. 123—169.)



1. In a spark plug adapted for use in connection with cylinders of internal combustion engines having a compression ratio higher than 5 to 1, the combination of an electrode and a shell provided with a space, to be filled with gas from the cylinder, surrounding the electrode and adjacent parts, and a restricted orifice adapted to connect the space with the cylinder of an engine, the relative proportions of the volume of the space within the spark plug and the effective area of surface of the walls of said space and the cross-sectional area of the orifice to one another being substantially as follows: the volume of said space being within about 1.25 cubic centimeters to about .50 cubic centimeter, the effective area of surface of the walls of said space being within about 20.0 square centimeters to about 10.0 square centimeters, and the cross-sectional area of the orific being within about 0.20 square centimeter to about 1.0 square centimeter.

1,399,377. HANDBAG. ATHELSTAN H. CHRISTIE, St. Louis, Mo. Filed Apr. 23, 1921. Serial No. 463,747. 2 Claims. (Cl. 190—37.)



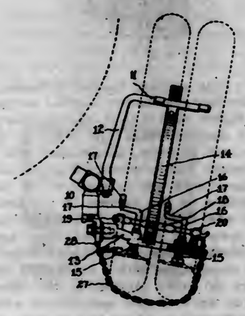
1. A hand bag comprising a pair of relative stiff sides, a T-shaped reinforcing strip formed of sole leather and provided with a rounded exterior edge extending around the edges of said sides and being substantially flush with the sides, a gusset, a row of stitching passing through the sides and gussets and reinforcing strip for uniting the same together, and a hinged frame to which said gussets are attached.

1,399,378. HEADLIGHT. JOHN P. CLULEY, Chicago, Ill. Filed Mar. 4, 1918. Serial No. 220,192. 2 Claims. (Cl. 240—41.)



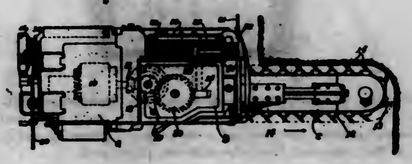
1. The combination with a parabolic reflector, of a substantially straight line light source horisontally positioned at the focal point of said reflector, a transparent envelop for said light source the fore part of which is of such a shape that direct rays from the light source reflected thereby are divergent, and means for adjusting said light source within said reflector to position said light source at the focal point of said reflector without disturbing the horizontal position of said light source.

1,399,379. MOTOR-VEHICLE. HOWARD S. CURRIER, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Apr. 5, 1919. Serial No. 287,753. 13 Claims. (Cl. 224—29.)



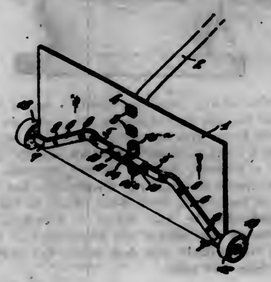
1. In a tire carrier of the class described, rim supporting means adapted to lie within a rim supported by the carrier and including a manually operable holding member adapted to engage the interior of a rim and hold it in place upon the carrier; a movable locking member adapted to lock said holding member in its holding position aforesaid; a chain adapted to extend about a rim upon the carrier and about a tire upon the rim, and one end of which chain is secured to a fixed support; and locking means adapted to secure the free end of said chain and to lock said locking member in its locking position.

1,399,380. MINING-MACHINE. CHARLES B. DAVIS, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 28, 1921. Serial No. 456,076. 3 Claims. (Cl. 262—30.)



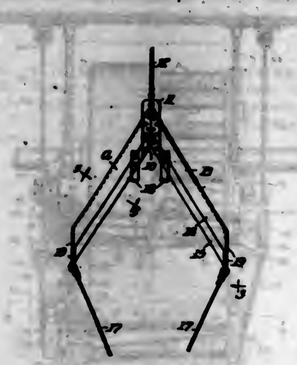
1. In a mining machine, in combination, a motor, a frame member mounted forwardly of said motor, said motor and said frame member forming a bottom plate upon which the machine slides on the mine bottom, a cutter bar provided with a cutter chain, and extending longitudinally from the forward or wall end of said frame, a power-driven draft device, a guide for said draft device mounted adjacent the forward end of said frame and substantially in the same horizontal plane with said cutter arm, and means for retarding the rear end of the machine, whereby said machine may be moved laterally along the face of a mine wall.

1,399,381. SPREADING DEVICE. ISAAC EVANS, Cleveland Heights, Ohio. Filed Nov. 8, 1920. Serial No. 422,525. 9 Claims. (Cl. 91—62.5.)



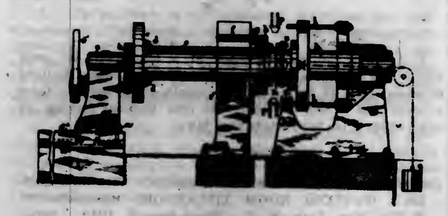
1. A device for the purpose described comprising a blade, rollers supporting said blade, and means for obtaining relative adjustment between said rollers and said blade.

1,399,382. SCRAPER. LESLIE P. GAMON, Chicago, Ill. Filed Sept. 28, 1920. Serial No. 413,455. 5 Claims. (Cl. 37—19.)



1. A scraper comprising sides secured together at one end and diverging forwardly, and guiding and digging extensions extending downwardly from said sides forward of the juncture between them, substantially as described.

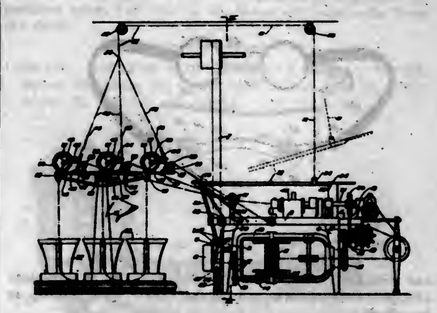
1,399,383. APPARATUS FOR MAKING MULTIPLE BEADINGS ON PIPES. FERDINAND HECK, Dusseldorf-Rath, Germany. Filed Sept. 22, 1915. Serial No. 52,132. 4 Claims. (Cl. 153—27.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



4. Apparatus for forming pipe flanges, comprising a longitudinally slidable standard, means thereon for supporting and rotating a pipe at one end thereof, a coöperating standard freely supporting the opposite end of the pipe, an abutment ring adjustable on the pipe and having a bearing against said standard, a mandrel entering the pipe end and profile rollers carried thereby and bearing under axial pressure against the pipe end to buckle the wall of the latter and form the buckled portion into a flange.

1,399,384. AUTOMATIC STOP FOR BARB-WIRE MACHINES. FRANK HEILMAN, Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey, a Corporation of New Jersey. Filed Jan. 26, 1921. Serial No. 440,194. 4 Claims. (Cl. 140—126.)

1. The combination with a wire working machine having a driving belt and fixed and loose pulleys, of a belt shifter therefor, means tending to move said belt shifter, a latch bar for normally preventing the movement of said belt shifter, means engaging the wire fed to the machine, means connecting said first named means and said latch bar for releasing said bar, and a brakeshoe adapted to engage said fixed pulley when said belt shifter is operated to shift the belt to said loose pulley.



1,399,385. SHEET-DELIVERING MECHANISM FOR VENDING-MACHINES. GILBERT L. HUFF, St. Louis, Mo. Filed May 27, 1921. Serial No. 473,146. 2 Claims. (Cl. 211—8.)



1. In a device of the class described, the combination with a stationary sheet holder, of a rotary shaft, a sliding arm carried by said shaft and carrying a contact member adapted to engage with the sheet farthest removed from said stationary holder and to disengage said sheet from the holder, and a spring for said contact member to cause it to automatically compensate for the number of sheets carried by said holder.

1,399,386. ABDOMINAL SUPPORT. FRANK Z. HUSAR, Chicago, Ill. Filed Nov. 20, 1917. Serial No. 202,802. 1 Claim. (Cl. 128—96.)

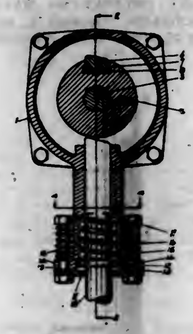
An abdominal support comprising a pad; an elongated plate extending horizontally across the front side of said pad; ball and socket connections loosely connecting said pad and plate at a plurality of points so as to permit

swinging movement of said pad about only a horizontal axis passing through said ball and socket connections;



and attaching means connected with the ends of said plate adapted to embrace the body of the wearer, substantially as described.

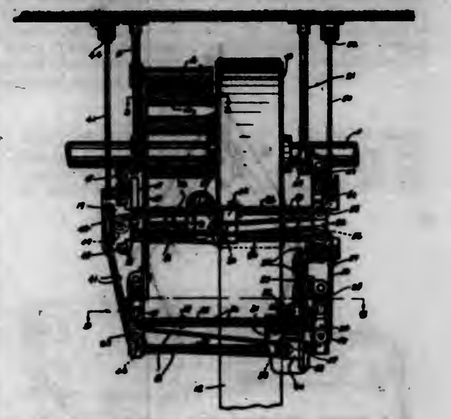
1,399,387. TAMPER AND LIKE IMPACT-TOOL. CONWILL JACKSON, Kalamazoo, Mich. Filed Apr. 11, 1921. Serial No. 460,557. 10 Claims. (Cl. 104—13.)



1. In a structure of the class described, the combination of a casing-like body member having a laterally projecting tool holder disposed at one end, a tool reciprocatingly mounted in said tool holder, an impact bar for said tool, a supporting spring for said bar, a driving shaft provided with bearings in the ends of said body member, impact wheel on said shaft provided with a tappet coacting with said tool, a handle comprising an S-shaped spring having one end rigidly secured to the tool holder end of said casing, a bowed spring pivotally secured to the other end of said casing, and a handle bar on the outer ends of said springs, and a spring normally holding said tool out of the path of the tappet.

1,399,388. BELT-SHIFTER. EMERALD E. JONES, Chicago, Ill., assignor to Surty Guard Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 22, 1921. Serial No. 439,098. 23 Claims. (Cl. 64—4.)

1. A belt shifter comprising two frames positioned on opposite sides of a belt, means carried by one of said frames for supporting the belt, a pair of bars interposed between said frames, a slide block movably mounted on said bars, a roller revolubly mounted on said slide block opposite one edge of the belt, and means for moving said



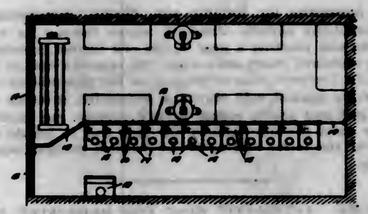
slide block for pushing said belt into position on said bar supporting means.

1,399,389. SOFT-COLLAR CLASP. HERMAN KAPOTKIN, New York, N. Y. Filed Mar. 25, 1921. Serial No. 455,523. 3 Claims. (Cl. 24—81.)



3. A collar holder composed of a blank slit on each side of its center to leave a web, said blank being doubled between the slits and along the length of the web to form a front and a rear member, the rear member having its ends shaped to form clamping jaws.

1,399,390. SERVICE ESTABLISHMENT AND CUSTOMER'S WAITING-ROOM THEREFOR. BENJAMIN W. KLEIN, New York, N. Y. Filed Dec. 6, 1919. Serial No. 343,068. 6 Claims. (Cl. 20—1.1.)



6. In a service establishment, an inclosure, a partition in the inclosure defining separate compartments and having an opening therethrough inter-communicating the compartments and provided with a transparent portion through which inspection of the compartments may be made one from the other, and a plurality of booths arranged in one compartment and having relatively low

walls for exposing the upper part of persons in the booths, said transparent portion of the partition and said low walls of the booth permitting an attendant passing between the compartments to quickly determine the entrance and positions of persons in the booths.

1,399,391. SLIP PRINTING AND REGISTERING MACHINE. HAAKON A. MARTIN, Whitestone, N. Y., assignor to The National Cash Register Company, Dayton, Ohio. Filed Dec. 28, 1918. Serial No. 268,727. 42 Claims. (Cl. 235—3.)

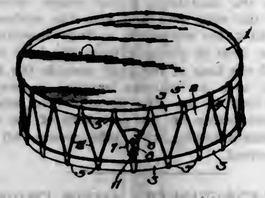


1. In a machine of the class described, the combination of an item recording mechanism, a transaction recording mechanism, differentially adjustable actuators for setting the item recording and the transaction recording mechanisms, and independent means for operating each of said mechanisms.

13. In a machine of the character described, the combination of a transaction recording totaliser, differentially adjustable actuators therefor, a platen for receiving record material, means for moving the transaction totaliser to engage the platen and record its data upon the record material, and means for automatically restoring the totaliser to zero.

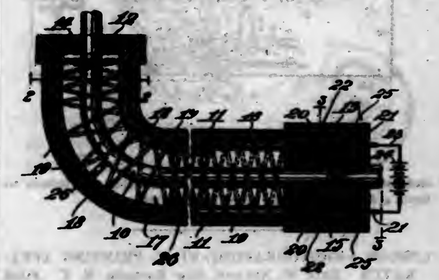
22. In a machine of the character described, the combination of an item recording mechanism, a transaction totalizer, a consecutive transaction recorder, and means controlled by the totaliser for actuating the consecutive transaction recorder.

1,399,392. DRUM-EAR. OTTO MEYER, Chicago, Ill. Filed May 10, 1920. Serial No. 380,178. 2 Claims. (Cl. 84—413.)



2. The combination in a drum with a drum cord under tension, of a drum ear, said drum ear having a body portion provided with a pair of extensions and a rod-like member pivoted therebetween, said pivoted member having a diameter greater than the normal distance between the adjacent parallel portions of said drum cord, having a length greater than the normal distance between said drum ear and the adjacent portion of the drum, and being adapted to be swung about its pivot between adjacent portions of the drum cord, thereby spreading such adjacent portions apart and moving the drum ear outwardly from the drum.

1,399,393. HEATER FOR GASOLENE-SUPPLY PIPES. EDGAR MILLNER, St. Louis, Mo. Filed July 30, 1920. Serial No. 400,021. 9 Claims. (Cl. 219—38.)



1. A heating device or hydro-carbon supply pipes comprising, in combination, a pair of spaced heads adapted for location upon a supply pipe, a flexible tube arranged between, and having engagement with, the heads, a shell disposed within the tubular member and adapted to provide a chamber around the pipe to be heated, and an electric heating coil for heating the chamber and pipe, the coil being disposed between the shell and tubular member.

1,399,394. GLASS CHEMICAL WARE. ALBERT MOND, London, England. Filed Oct. 2, 1918. Serial No. 256,595. 4 Claims. (Cl. 73—166.)

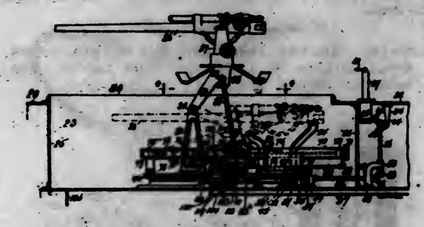


1. Measuring cylinders, graduated test mixers and the like glass chemical ware, comprising a cylinder of uniform gage made from a drawn glass tube and provided with equidistant graduations, a bottom consisting of a removable stopper, and a foot on which said cylinder stands.

1,399,395. GUN-DISAPPEARING APPARATUS. JOHN AUSTIN MORAN, Brooklyn, N. Y. Filed Dec. 30, 1919. Serial No. 348,271. 6 Claims. (Cl. 89—38.)

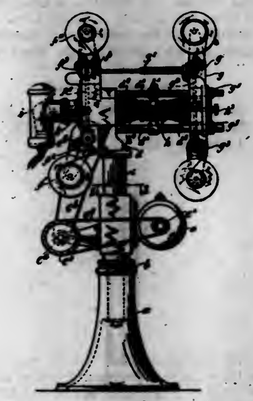
1. In a gun disappearing apparatus the combination of a gun, a socket for the pivot of the gun, arms extending from the socket, a pair of links with the upper end of each pivoted to said socket, a turntable, journal brackets supported on the turntable, the arms of the socket pivoted to said journal brackets, a pair of cylinders supported on the turntable, a piston for each cylinder, a piston rod for each piston, pairs of guides on the

turntable, a cross head for each pair of guides, said cross head connected to its accompanying pisten rod, the lower



ends of said links pivoted to said cross heads and means to force a fluid into each end of both cylinders.

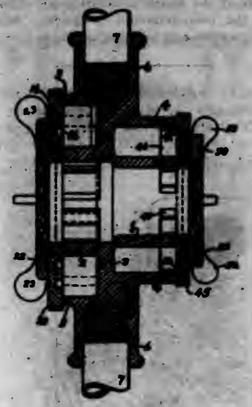
1,399,396. PHOTOGRAPHIC-FILM-PRINTING APPARATUS. ERIK W. NELSON, New Rochelle, N. Y. Filed May 22, 1920. Serial No. 383,387. 3 Claims. (Cl. 88—24.)



1. A photographic film printing apparatus comprising a base, a supporting head mounted thereon and rotatable about a vertical axis, a horizontal bar extended from the head, a film carrier mounted on the head, a second film carrier mounted movably on said bar, a lens system supported by the head between the two film carriers and a source of light supported by the head external to the two film carriers.

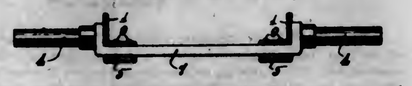
1,399,397. DIESTOCK. IRA W. NONNEMAN, Warren, Ohio, assignor to The Borden Company, Warren, Ohio, a Corporation of Ohio. Filed Feb. 9, 1920. Serial No. 357,236. 11 Claims. (Cl. 10—122.)

1. The combination with a chaser carrying frame, a plurality of sets of radially movable chasers, a series of cams for actuating one set of chasers radially, and lever connections between each chaser of one set with a chaser of the other set, whereby inward movement of one set



of chasers causes outward movement of the other set of chasers.

1,399,398. AXLE-BOX. ROBERT C. OSGOOD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed May 28, 1920. Serial No. 385,011. 7 Claims. (Cl. 295—42.)



1. In combination, a frame, a drop axle disposed beneath the same, an axle box having a recess of less depth than that of the drop portion of said axle receiving the bottom of said portion, and means exterior to said axle for clamping said box to said frame.

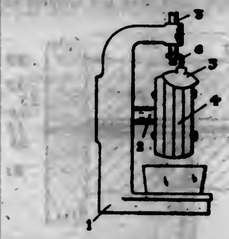
1,399,399. CONNECTOR. HOWARD ELLSWORTH PARSON, Calgary, Alberta, Canada. Filed May 12, 1920. Serial No. 380,920. 1 Claim. (Cl. 137—21.)



The combination with an oil container of a plug, screwed into the base thereof and projecting therein, having a central hollow cavity and orifices in the side walls within the container, a cap screen covering the open end of the said plug and also the orifices on the side walls within the container, a ring connector around the said plug, held in place between the base of the oil container and the base of the plug, outside the container, and provided with an interior annular groove, orifices in the lower end of the plug opening into said groove, and a pipe connection on the periphery of the said ring connector communicating with said groove, all substantially as described.

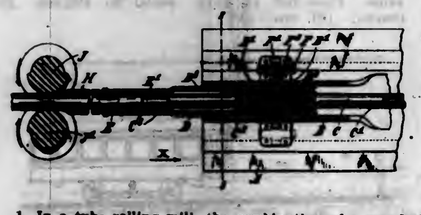
1,399,400. LENS-GRINDER. ARTHUR PELLOW, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed July 17, 1919. Serial No. 311,406. 2 Claims. (Cl. 51—278.)

2. The process of constructing and reconstructing a grinding tool to secure maximum wear from the grinding tool, consisting in building the tool of a series of laminations, separably connecting said laminations and progressively shifting the laminations from summit to edge



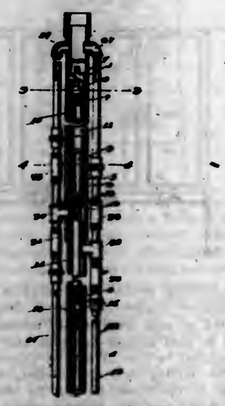
of the curve being ground thereby, inserting new units at the summit, and removing a unit from the edge as a new unit is placed at the summit to preserve the wear and bulk of the tool substantially constant.

1,399,401. TUBE-ROLLING MILL. JACQUES REIMANN, Erdington, Birmingham, England. Filed Aug. 21, 1919. Serial No. 318,964. 4 Claims. (Cl. 80—14.)



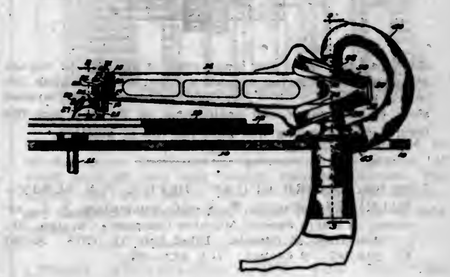
1. In a tube rolling mill, the combination of a mandrel holder, which is progressively advanced and partially rotated, a tube carrying mandrel connected thereto, a sleeve screw-threaded upon said mandrel-holder, and extending over the junction of the mandrel holder and mandrel, a shaft geared to said sleeve and normally rotating in harmony with it, and means, for rotating said shaft variably with reference to its normal movement, substantially as set forth.

1,399,402. PUMP. FANT ROBERTS, Eldorado, Kans. Filed July 15, 1920. Serial No. 396,442. 6 Claims. (Cl. 103—71.)



5. A pump comprising upper and lower connected barrels, a plunger in each barrel, a connection between the plungers, a stuffing box between the plungers through which the connection moves, a plurality of connections between the upper barrel above the upper plunger and the lower barrel below the lower plunger, each of said connections connecting intermediate the ends with one of the barrels, one of the connections being above the stuffing box and the other below the said box, and check valves for constraining the liquid to flow upward.

1,399,403. SOUND-REPRODUCING APPARATUS. HENRY K. SANDELL, Chicago, Ill. Filed Oct. 3, 1919. Serial No. 328,229. 2 Claims. (Cl. 274—28.)



1. In sound reproducing apparatus, a support, a lever mounted thereupon for oscillation about a horizontal axis, a sound producing diaphragm, a link connecting the lever to the diaphragm, a second lever mounted upon the first mentioned lever for oscillation therewith about its horizontal fulcrum but oscillatable relatively thereto about a vertical axis, a second sound producing diaphragm, a link connecting the second lever to the second diaphragm, and a stylus holder rigidly connected with the second lever.

1,399,404. SOUND-BOX. HENRY K. SANDELL, Chicago, Ill., assignor to Herbert S. Mills, Chicago, Ill. Filed June 19, 1920. Serial No. 390,209. 4 Claims. (Cl. 274—28.)



2. A sound box comprising a diaphragm, a supporting casing therefor, a stylus holder pivotally mounted upon said casing at substantially right angles thereto and vibratory in a direction substantially parallel to the plane of the diaphragm and a link extending from a point on said support intermediate its pivot point and its free end to a centrally located point on said diaphragm and making an angle of about 22 to 25° therewith.

1,399,405. QUICK-DETACHABLE DUST-CAP. GEORGE W. SCOTT, Santa Rosa, Calif. Filed Mar. 18, 1920. Serial No. 366,776. 3 Claims. (Cl. 152—12.)

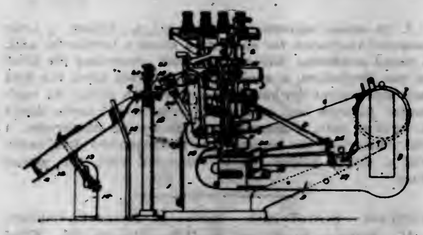
2. A device of the kind described comprising a nut adapted for threaded engagement with a valve stem and having an exterior portion shaped for engagement by a wrench, a sleeve projecting from said nut, bayonet slots formed in said sleeve and spaced from the face of the

nut, a spring surrounding said sleeve, a washer riding on said spring the nut being formed with portions to inclose said spring and inturned at the top to retain said washer, a cap adapted to fit said sleeve and inclose the valve stem said cap having internal projections to engage the bayonet



slots and to permit the lower edge of the cap to engage and depress the spring pressed washer, whereby when the cap is partially rotated the coaction between the bayonet slots on the sleeve the projections on the cap and the tension of the spring will hold the cap in position.

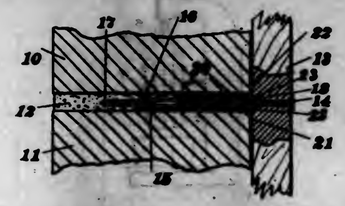
1,399,406. FABRIC-GUIDING DEVICE FOR SEWING-MACHINES. WALTER W. SCOTT, Amsterdam, N. Y., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed July 11, 1918. Serial No. 244,367. 3 Claims. (Cl. 112—63.)



1. The combination with a sewing machine having a work supporting arm, a presser foot, stitching mechanism operating at the free end of said arm, and means for feeding the material being stitched off from the end of said arm; of a strip guiding means for directing a continuous strip to the stitching mechanism, said strip guiding means including devices for supporting a strip supply at the rear of the machine, a reverting guide on the work supporting arm adjacent the opposite end of said arm from the stitching mechanism, whereby the direction of movement of the strip may be reversed and the strip fed to the stitching mechanism in a direction substantially parallel with the work supporting arm, and a guide located adjacent the stitching mechanism for directing said strip beneath the presser foot and for directing the body fabric to the stitching mechanism whereby the strip and body fabric will be united.

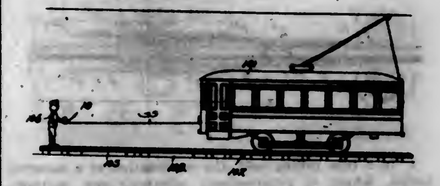
1,399,407. WALL-PLUG. SERAPHIM SIEVERS, Omaha, Nebr. Filed Jan. 3, 1921. Serial No. 434,412. 1 Claim. (Cl. 72—105.)

A wall or floor plug comprising a single sheet of metal overturned intermediate its ends at a relatively sharp angle and with its sides diverging toward its ends to provide a wedge-shaped throat and at said ends bent outwardly and oppositely to provide wall abutting flanges, said plug being adapted to be embedded in a body of plastic material in a wall or floor and with said flanges abutting against the outer face thereof, one of said overturned portions of said strip having its edges bent inwardly toward and engaging the other end portion to provide lateral flanges to space and support said sides apart and prevent entrance of the plastic body therebetween, and said other end portion of the strip having spurs struck up therefrom at the outer sides of said flanges to hold the latter from collapsing and adapted to anchor



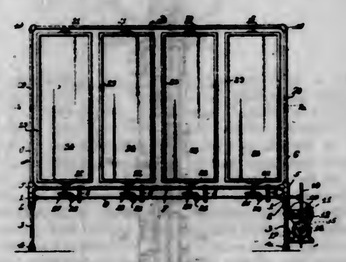
the plug in the plastic body, said plug being adapted to receive the end of a nail in said wedge-shaped throat, whereby to wedge said nail therein and bind the plug in the plastic body.

1,399,408. SYSTEM OF CONTROL. KARL A. SIMMON, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 13, 1917. Serial No. 196,395. 23 Claims. (Cl. 104—149.)



1. In a system of vehicle control, the combination with an electric motor and means located upon the vehicle for normally governing the motor operation, of means for effecting motor operation from a point external to the vehicle and for preventing concurrent operation from the vehicle itself.

1,399,409. ADVERTISING DEVICE. EMIL A. SLEDZ, Detroit, Mich. Filed Apr. 10, 1920. Serial No. 372,778. 1 Claim. (Cl. 40—76.)



An advertising device comprising A frames, a longitudinal member connecting said A frames, hanger bearings carried by said longitudinal member, a driven shaft journaled in said hanger bearings and said A frames, a bracket carried by one of said A frames, means on said bracket for driving said shaft, uprights carried by said A frames, a top frame having its ends seated on said uprights, flat panel-like article and sign carrying members of less thickness than said top frame so that said

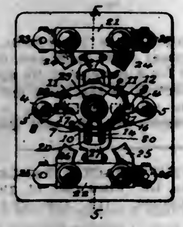
members may lie in a common plane within said top frame, said members having platies journaled in said top frame and said longitudinal member, and beveled gear wheels adapted to transmit a rotary movement to said article and sign carrying members from said driven shaft.

1,399,410. WHEEL. FREDERICK S. STAFFORD, Chicago, Ill., assignor to Henry G. Saal, Chicago, Ill. Filed Apr. 16, 1920. Serial No. 374,306. 8 Claims. (Cl. 301—63.)



1. A wheel having a disk whose central portion is provided with a shoulder seated upon a shoulder which is provided upon the wheel hub; and a ring secured to the disk against once face thereof and provided with a shoulder seated upon a second shoulder with which the hub is provided.

1,399,411. REVERSING-SWITCH. BRUNO STECHBART, Chicago, Ill. Filed May 12, 1919, Serial No. 296,368. Renewed Jan. 22, 1921. Serial No. 439,318. 8 Claims. (Cl. 200—70.)



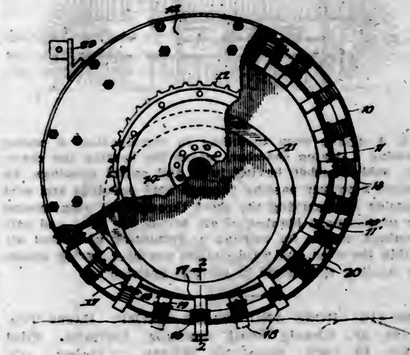
3. In a reversing switch, the combination of an operating plate, means for imparting a rocking movement to said plate, a pair of rocking contact arms moving in unison and insulated from each other, pairs of fixed contact members individual to the rocking contact arms aforesaid, and an operative connection between said rocking contact arms and the aforesaid operating plate, comprising a sliding head operatively connected to said rocking contact arms, means between said sliding plate and the operating plate for locking said sliding plate at each end of its path and at the middle of said path, the same comprising marginal flanges on the operating plate and lugs on the sliding plate adapted for intermittent engagement with said marginal flanges, and a spring associated with said rocking contact arms and the operating plate for imparting a snap movement to said arms when the sliding plate is released from either of the aforesaid holding engagements with the operating plate, substantially as set forth.

1,399,412. CORN CLEANING AND SORTING MACHINE. ANDREW STERNAD, Chicago, Ill. Filed Oct. 24, 1919, Serial No. 333,013. Renewed Aug. 18, 1921. Serial No. 493,465. 15 Claims. (Cl. 130—32.)



1. In combination, a plurality of rollers adapted to having spaces therebetween permitting the passage of small ears of corn and foreign material between the rollers and hold larger ears of corn on the rollers; and means for washing said larger ears of corn on said rollers.

1,399,413. PROPELLING-WHEEL FOR TRACTORS AND OTHER VEHICLES. HORACE G. STONE, Chicago, Ill. Filed Feb. 23, 1921. Serial No. 447,091. 5 Claims. (Cl. 301—48.)



5. A traction wheel, comprising a rim, a hub, an inner band, traction plugs extending through said band and rim, means for connecting the rim, inner band and hub, springs for retracting said plugs to bring the outer ends substantially flush with the surface of the wheel, and a rolling gravity member for engaging the inner ends of said plugs to project them into traction ground engaging position with the inner ends substantially in the plane of the inner face of said inner ring.

1,399,414. HARDENED STEEL TOOL. WILLIAM B. SULLIVAN, Chicago, Ill., assignor to Rich Tool Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 24, 1920. Serial No. 360,659. 1 Claim. (Cl. 78—46.)

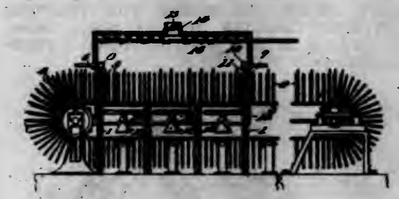
A hardened steel tool comprising integrally formed cylindrical head and shank arranged in longitudinal alinement but differing substantially in size and expanding abruptly between the shank and head, a part of the head of the tool adjacent the shank being provided with an annular series of longitudinal grooves of gradually diminishing depth leading from the union of the head with the

shank and disappearing entirely intermediate the length of the head, the bottoms of the grooves being flush with



the exterior of the adjacent part of the shank at one end and with the exterior of the adjacent part of the head at the other end of the grooves.

1,399,415. APPARATUS FOR DRYING LITHOGRAPHED METAL SHEETS. THOMAS LUCIEN TALIAFERRO, Chicago, Ill., assignor to Phoenix Hermetic Company, Chicago, Ill., a Corporation of New York. Filed Apr. 15, 1920. Serial No. 374,033. 3 Claims. (Cl. 34—12.)



3. A drying oven including in combination, a casing forming a drying chamber, means for heating the chamber, said chamber having inlet and outlet openings, an endless conveyer passing through said openings and said chamber for carrying the sheet through the oven, means for projecting a blanket of air across the inlet and exit openings, means for causing a circulation of heated air within the oven, and said endless conveyer having means for holding the sheets in vertical position.

1,399,416. HOSE AND OTHER CLAMP. HARRY TURNER, Sr., Glenelg, South Australia, Australia. Filed Feb. 10, 1920. Serial No. 357,636. 2 Claims. (Cl. 24—19.)



1. The combination with an encircling spring band having a relatively wide portion and a narrow tongue portion one end of the latter being adapted to pass through a circumferential aperture in said wide portion, said end having a bifurcation and a pivot pin seated in said bifurcation, of a lever pivotally connected with said pivot pin and having a screw-threaded portion, a link pivotally connected at one end with the wide portion of the band, and a screw-threaded member to which the other end of the link is connected and with which screw-threaded member the threaded portion of the lever engages in the manner and for the purpose specified.

1,399,417. REGISTER, &c. CURTIS HUSSEY VREDEN, Hartford, Conn., assignor to The Veeder Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed Feb. 16, 1921. Serial No. 445,234. 2 Claims. (Cl. 74—101.)



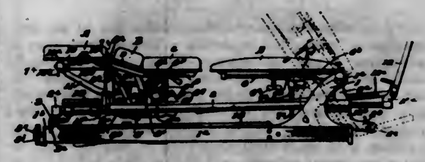
2. The combination of a mechanism to be driven, a base plate therefor having a pedestal with detachable cap to form a circular bearing and a gear casing having a split cylindrical hub seated in said circular bearing.

1,399,418. SPINNING-RING CARRIER. THOMAS WHITEHEAD, Blackpool, England. Filed Apr. 15, 1921. Serial No. 461,485. 3 Claims. (Cl. 118—60.)



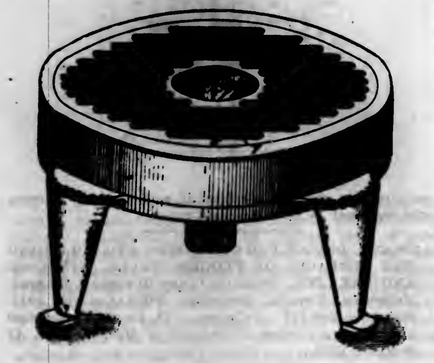
1. The combination, with a revoluble driving sleeve having an enlargement at its upper end, of a carrier provided with a race for a traveler at its upper end, and a reinforcing ring secured to the lower end of the carrier and provided with means for placing it into and out of driving engagement with the said sleeve.

1,399,419. CHIROPRACTIC TABLE. WILLIAM G. WILLIAMS, Elgin, Ill. Filed Dec. 11, 1920. Serial No. 429,962. 29 Claims. (Cl. 128—73.)



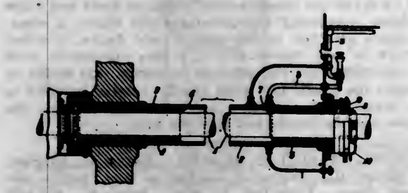
1. In a table of the character specified; a base section; a table section pivoted thereon; major spring means connected to the table section; an adjustable tubular sleeve connected to the base, a member on said sleeve connected with the major spring means whereby the tension of the spring means can be adjusted; supplemental spring means connected with the table section; and means telescoping said sleeve whereby the supplemental spring means may be adjusted so as to vary the point at which such springs will come into or go out of effective operation.

1,399,420. METHOD OF MENDING ELECTRIC RESISTANCE ELEMENTS. NOEL CARRICO, Sidney, Mont., assignor of one-half to Frank C. Hughes, Evanston, Ill. Filed Sept. 11, 1920. Serial No. 409,660. 16 Claims. (Cl. 219—10.)



1. The method of mending a helical wire electric resistance element by hooking together the broken ends and passing through the element the normal operating electric current.

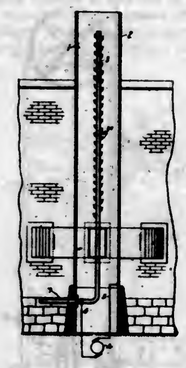
1,399,421. STUFFING-BOX FOR PROPELLER-SHAFTS. CARL WILHELM CEDERVALL, Gottenborg, Sweden. Filed July 19, 1917. Serial No. 181,490. 4 Claims. (Cl. 286—8.)



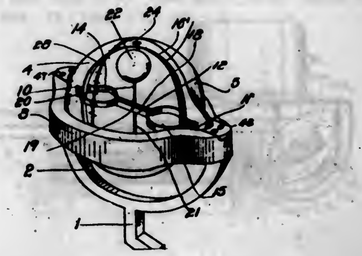
3. In a stuffing box for propeller shafts running in oil under pressure, a member secured to said shaft and rotating therewith, a flanged sleeve slidable on said shaft and operatively attached to said member to rotate therewith, a stationary flange and a stationary ring, said flange of said sleeve being located therebetween, and means to maintain said flanges and ring in closed contact.

1,399,422. ELECTRICAL PRECIPITATING SYSTEM. LEWIS WARRINGTON CHUBB, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 9, 1918. Serial No. 221,897. 16 Claims. (Cl. 183—7.)

1. In an electrical precipitating system, the combination with a treating chamber and a discharge electrode positioned therein and having a plurality of annular recesses, of thermal means for causing thermionic currents to flow from said discharge electrode upon the application of potential to the same, said thermal means consisting of flame blasts to heat said electrode to incandescence in the vicinity of said recesses.



1,399,423. AIRPLANE-INDICATOR. WILLIAM B. CUNNINGHAM, Kansas City, Mo. Filed Aug. 11, 1919. Serial No. 316,693. 6 Claims. (Cl. 33—206.)

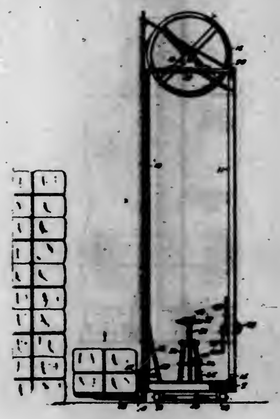


1. In a balance indicator for airplanes, a globe, a non-compressible fluid completely filling said globe, a frame inclosed by and having pivotal connection with said globe so as to be turnable on a normally horizontal axis, an indicator shaft pivotally connected to said frame and having its axis at right angles to the axis of the frame, a hollow ball at one end of the shaft, and a weight at the other end of the shaft.

1,399,424. PORTABLE DERRICK. WILLIAM STANHOPE GARRETT, Richmond, Va. Filed July 1, 1919. Serial No. 307,963. 18 Claims. (Cl. 214—121.)

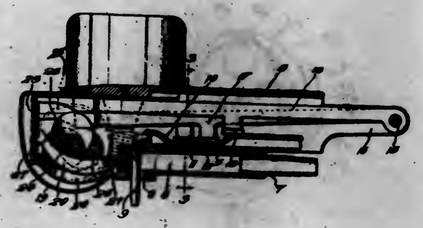
2. A portable derrick, comprising a base structure with means carried thereby enabling the propulsion of the derrick by one man, operatively associated means for steeering the base structure during propulsion, a super-

structure carried by the base structure, hoisting mechanism, load lifting means operatively associated with said



superstructure and hoisting means, and independently operable means associated with said lifting means for discharging the load either laterally or toward the front.

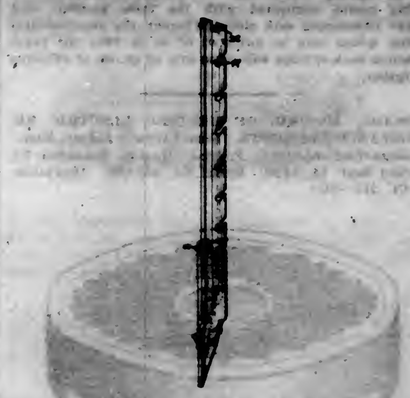
1,399,425. ART OF PRODUCING ORNAMENTAL SURFACES. MAJOR E. GATES, Terra Cotta, Ill. Filed Apr. 28, 1920. Serial No. 377,840. 29 Claims. (Cl. 91—45.)



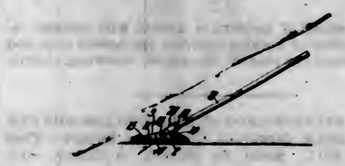
1. In the art of coating surfaces, the method which consists in causing the coating fluid to be projected intermittently through the outlet end of a conduit to cause discharge of fluid therefrom in separated bodies of a cross-sectional area substantially equal to the cross-sectional area of the outlet and delivering the coating fluid against the object to which it is to be applied, with sufficient force to cause it to flatten against the object.

1,399,426. FENCEPOST. GEORGE V. HARDING, Oakland, Calif. Filed Mar. 17, 1920. Serial No. 366,651. 2 Claims. (Cl. 189—28.)

1. A fence post comprising a flat bar, driven section having a longitudinal flange thereon, said bar and flange tapering to a pointed end and having a socket formed in the end opposite said pointed end; an upper section of similar cross-section adapted to engage the socket in said driven section whereby the longitudinal flange in said driven section aligns with the longitudinal flange in the upper section; and lugs and notches formed respectively in the flat portions of said sections whereby said lugs may be bent into said notches.

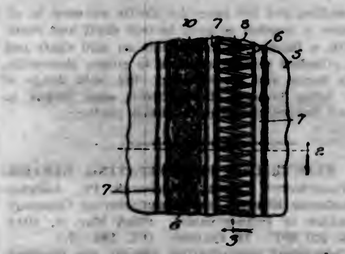


1,399,427. DEVICE FOR CLEANSING AND POLISHING THE SURFACES OF FLOORS, WALLS, WINDOWS, AND THE LIKE. WILLIAM JAMES HOULIHAN, Prahran, Melbourne, Victoria, Australia. Filed Aug. 10, 1918. Serial No. 249,357. 4 Claims. (Cl. 15—56.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



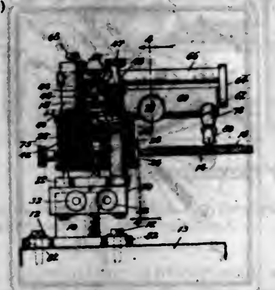
1. A device for cleansing and polishing floors and other surfaces, comprising a substantially flat frame, a superstructure attached to one side of said frame, a socket pivoted to said superstructure, a boss upstanding from the superstructure and adapted to engage said socket to support the handle in correct angular position relative to the frame, and a locking screw passing through the socket and the handle and into the boss.

1,399,428. ELECTRIC HEATER. FRANK C. HUGHES, Chicago, Ill., assignor of one-half to Noel Carrico, Sidney, Mont. Filed Oct. 9, 1920. Serial No. 415,850. 2 Claims. (Cl. 219—64.)



1. In an electric heater, a substantially bare resistance element attached to a support by an electrically non-conductive and thermally conductive cement whereby a portion of the heat from the element is conducted to the support and radiated therefrom.

1,399,429. RECORDING TELEGRAPHIC RECEIVING INSTRUMENT. JOHN A. HULIT, Chicago, Ill. Filed Mar. 22, 1917, Serial No. 156,556. Renewed May 10, 1921. Serial No. 468,204. 15 Claims. (Cl. 178—96.)



1. In a device of the class described, the combination with a suitable support, electromagnets and armature therefor; adjustable contacts on opposite sides of said armature, limiting its motion, means for mounting one of said contacts, permitting movement of said contact from its normal position with reference to said armature to another position in which it is entirely clear of the path of movement of said armature, an ink receptacle pivotally mounted and connected to move in unison with said armature, and a marking device supplied with ink from said receptacle and moving with it, for the purposes set forth.

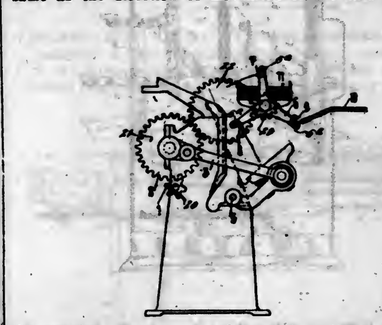
1,399,430. SEGMENTAL CASING FOR TIRES. ROLLA N. INK, San Diego, Calif. Filed Sept. 9, 1921. Serial No. 499,477. 2 Claims. (Cl. 152—10.)



1. A supplemental tire casing comprising a multiplicity of segmental sections arranged end to end and in contact with each other, fastening members carried by the sections, each fastening member comprising a threaded shank extending through one wall of the section, a head formed on the inner end of the shank, a connecting member removably secured on the shank and formed to provide a loop, cables extending through the loops, and means at the ends of the cables for drawing the latter together.

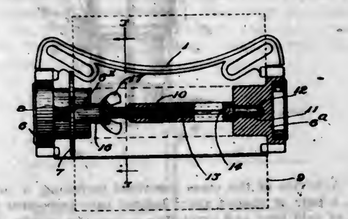
1,399,431. PLATEN PRINTING-PRESS. OTTO JOHNS, Bautzen, Germany. Filed Mar. 31, 1914. Serial No. 828,449. 4 Claims. (Cl. 101—287.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. A platen printing press comprising a platen having a to-and-fro movement, a laying-on table, a laying-off table, gripper arms mounted on a revoluble shaft independent of and spaced from said platen, said revoluble shaft being free from the said to-and-fro movement of said platen, and grippers mounted on said gripper arms, said grippers passing adjacent said platen, said laying-on table, and said laying-off table during the revolution of said gripper arms, said grippers being adapted to draw the sheet from the laying-on table, support the same in hanging position, place it into printing position on said platen, and again remove it and lay it off on the laying-off table, the direction of movement of the gripper arm drawing the sheet from the laying-on table being the same as the direction of movement of the said platen.



4. A platen printing press, comprising a bed, a platen having to-and-fro movement, a laying-on table, a laying-off table, a feeding mechanism for taking the sheets from the laying-on table, placing the same in printing position upon the bed of said press, and again removing said sheet and placing it on said laying-off table, said feeding mechanism being rotatable entirely in front of said bed of said machine, said laying-on and laying-off tables and said feeding mechanism being disposed above said platen.

1,399,432. DISPENSING-FIXTURE. GEORGE T. JOHNSON, New York, N. Y. Filed Mar. 1, 1920. Serial No. 362,449. 14 Claims. (Cl. 211—31.)

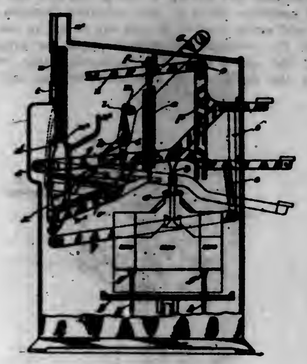


1. A dispensing fixture for continuous web material wound in roll form, having a roll support adapted to enter the central opening of a roll, and a spring-actuated friction-plate adapted to act against an end of a roll applied to said roll-support, movable lengthwise of the roll-support, and engaging with the roll-support so as to be held thereby from turning with the roll.

1,399,433. WEIGHING-MACHINE. KARL JUKES, Wuthenow, near Neuruppin, Germany. Filed Dec. 20, 1920. Serial No. 432,126. 10 Claims. (Cl. 265—28.)

1. In a weighing machine, the combination, with a scale platform and a set of weights adapted to rest upon it in their lowered position, of weight-shifting mechanism comprising a set of weighing levers, from each of which a weight is suspended; and a set of supporting springs,

one individual to each lever, for holding said levers and weights normally in elevated position, the tension of the



springs being so adjusted as to normally balance the levers and associated weights.

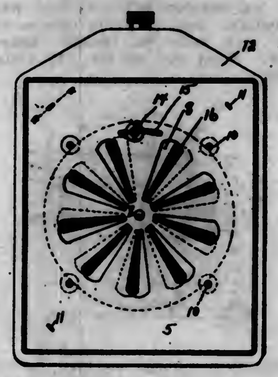
1,399,434. IRRIGATION-VALVE. CLINTON J. KURTS, San Diego, Calif. Filed Dec. 4, 1919. Serial No. 342,339. 4 Claims. (Cl. 137—13.)



1. A device of the class described including, a concrete pipe, a pair of spaced apart lateral bars embedded in the wall of said pipe and extending across the middle thereof some distance from the end, an integral valve seat formed on the end of said concrete pipe, a plate with its outer edge conforming to said valve seat provided with a central hole, a bolt mounted in said central hole and extending downwardly and a nut mounted between said lateral bars adapted to fit on the end of said bolt.

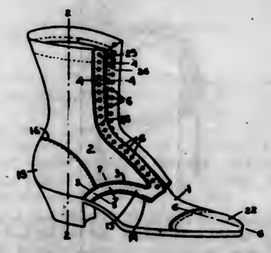
1,399,435. RADIATOR-COVER. HOWARD G. LAPSLEY, Plainfield, N. J. Filed Oct. 9, 1920. Serial No. 415,923. 1 Claim. (Cl. 257—132.)

A radiator cover comprising a relatively flat stationary plate adapted to lie flat in front of the radiator, said stationary plate having a series of radially disposed slots therein, a movable plate pivoted to the stationary plate and provided with a series of radially disposed slots corresponding to the slots in the stationary plate, a bolt carried by the movable plate and passed through an arcuate slot in the stationary plate for securing the movable plate in adjusted position relatively to the stationary



plate, and staples adapted to pass through the radiator for securing the stationary plate thereto.

1,399,436. SHOE. ALEXANDER E. LITTLE, Lynn, Mass., assignor to A. E. Little Company, Lynn, Mass., a Corporation of Massachusetts. Filed May 12, 1920. Serial No. 380,808. 4 Claims. (Cl. 36—45.)

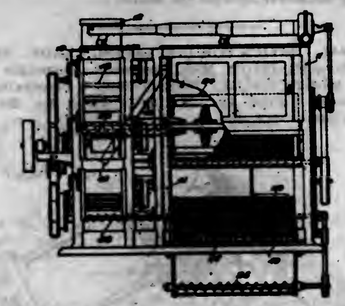


2. A shoe having a vamp portion and a quarter portion arranged with their meeting edges in abutting relation, a lining for the vamp having its edges bent around that edge thereof which abuts an edge of the quarter, and a cover strip overlying and extending longitudinally of said abutting edges and secured to both quarter and vamp.

1,399,437. APPARATUS FOR MAKING FLOUR AND MEAL. LUCIUS FREEMAN LITTLE, Owensboro, Ky. Filed May 14, 1920. Serial No. 381,348. 16 Claims. (Cl. 83—42.)

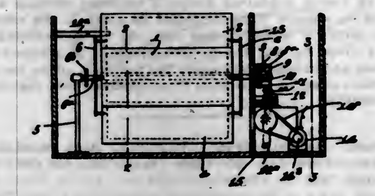
1. In a mill of the class described, the combination of a casing having a roll-section and a centrifugal-section, a plurality of pairs of break-rolls in said roll-section,

scalping sieves having coarse and fine screens for each pair of rolls, a centrifugal in said centrifugal-section,



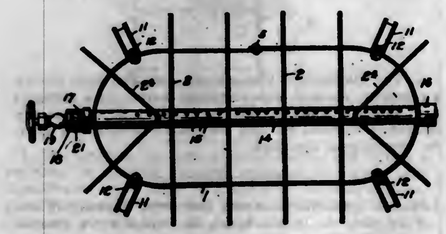
and means to receive and deliver the throughs from all of said scalping sieves to said centrifugal.

1,399,438. AUTOMATIC ADVERTISING-MACHINE. HENDRICK W. LUNDQUIST, San Diego, Calif. Filed Feb. 20, 1918. Serial No. 218,251. 2 Claims. (Cl. 40—77.)



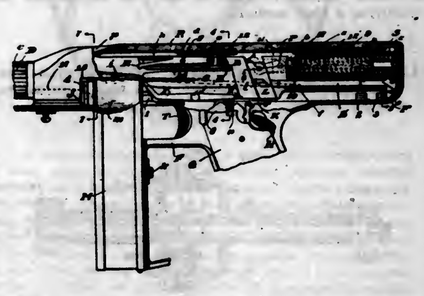
1. In an automatic advertising machine, the combination of spaced apart spider members, card holders pivotally mounted between each two pairs of arms on said spider members, each card holder provided with oppositely disposed card supports, gear, ratchet, escapement and brake means for intermittently revolving said spider a portion of a revolution, stop means secured to the casing for engaging said card holders and revolving them a one-half revolution with each revolution of said spider, means for intermittently illuminating the card on one side of said holder and means for projecting the matter on said card onto a translucent plate during the time said card remains standing.

1,399,439. LAUNDRY-STOVE. CHARLES P. MELVIN, Youngstown, Ohio, assignor to The Melvin-Lloyd Company, Youngstown, Ohio, a Corporation. Filed May 23, 1919. Serial No. 299,308. 1 Claim. (Cl. 126—40.)



A stove comprising a frame member of band metal bent to substantially oval form, with its ends united and provided with a pair of oppositely disposed holes, flat bar metal rest members edgewise interlocked with the frame member by interengaging kerfs, the end rests being bent in substantial V-shape to interfit with the kerfs in the end portions of the frame member, legs secured to said frame member, and a perforated gas burner pipe extending through the oppositely disposed holes in the frame member.

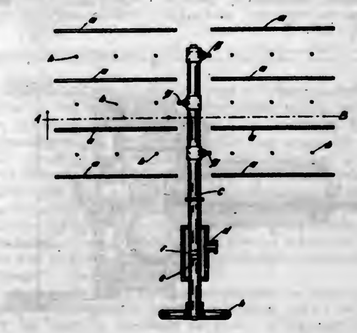
1,399,440. GUN. OSCAR V. PAYNE, Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 5, 1919. Serial No. 342,698. 42 Claims. (Cl. 89—33.)



2. A gun comprising automatic breech mechanism, means whereby a cartridge holder may be fed through the gun to deliver cartridges thereto, and means responsive to the rate of cartridge feed to control the rate of firing.

4. The method of controlling the action of an automatic gun which comprises feeding cartridges to the gun and controlling the rate of firing by regulating the rate of cartridge feed.

1,399,441. MEANS FOR CLEANING THE ELECTRODES IN ELECTRICAL FUME-PRECIPITATORS. ALFRED PETERSEN, Frankfort-on-the-Main, Germany, assignor to International Precipitation Company, Los Angeles, Calif., a Corporation of California. Filed July 10, 1916. Serial No. 108,297. 6 Claims. (Cl. 183—7.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In combination with collecting electrodes of an electrical precipitator, a blast pipe provided with means for supplying gas thereto and mounted to rotate so as to direct gas on to different parts of said electrodes.

2. In combination with discharge and collecting electrodes of an electrical precipitator, gas supply means

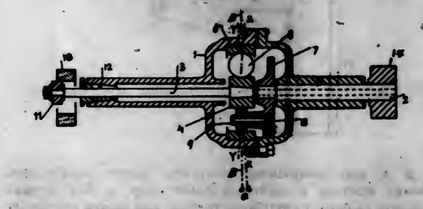
and air blast means in communication with said gas supply means and mounted to move rotatively and longitudinally to direct a gas blast at different parts of said electrodes.

3. In combination with electrode means in an electrical precipitator, gas blast means movably mounted to direct a gas blast to different parts of said electrode means to clean the same.

4. In combination with a flue in an electric precipitator a blast pipe, means for controlling the direction of the blast in the flue and means for supplying a blast medium.

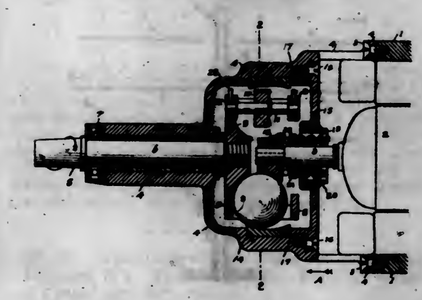
5. In combination with a flue in an electric precipitator a blast pipe, means for moving the pipe in axial direction, means for rotating the pipe and means for supplying a blast medium.

1,399,442. FRICTION-GEARING. TURE GUSTAF RENNERFELT, Stockholm, Sweden. Filed June 2, 1919. Serial No. 301,239. 12 Claims. (Cl. 74—26.)



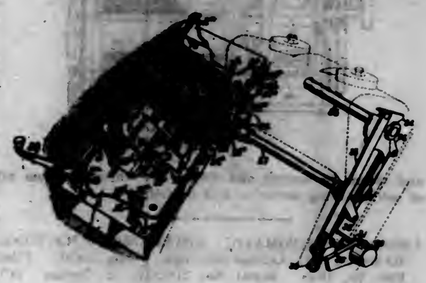
1. In a friction gearing for transmission of power between a shaft and a spindle the combination of a friction pinion mounted on the spindle, a racering having a concave running face, a plurality of rollers between the pinion and the racering, means fastened to the spindle for transmitting pressure to the pinion and forcing it against the rollers, and means carried by the shaft for causing the rollers to roll on the racering, the rollers being arranged to make contact with the racering at the largest diameter of its running face.

1,399,443. FRICTION-GEARING. TURE GUSTAF RENNERFELT, Stockholm, Sweden. Filed May 13, 1918. Serial No. 234,175. 10 Claims. (Cl. 74—26.)



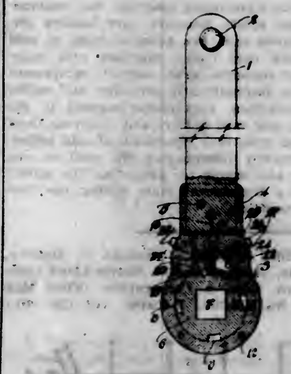
1. Friction gearing for transmission of power between two shafts, embracing a casing, a pinion fastened to one of the shafts, a yoke fastened to the other shaft, a racering clamped within the casing, a plurality of balls between the pinion and the racering, a spring pressed between the casing and the pinion and arranged to force the pinion against the balls, and rollers which make contact with the balls journaled in the yoke and serving to convey the power between the shafts.

1,399,444. DEVICE FOR DISPLAYING CARDS. FRANK C. RISACHER, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 24, 1919. Serial No. 292,899. 32 Claims. (Cl. 40—78.)



1. In a card displaying device, a traveling carriage arranged to support cards arranged in a stack, the cards being pivotally mounted near one end in said carriage, and a vibrating shifting member mounted in stationary position and arranged to engage the free ends of the cards *seriatim* and successively shift them angularly into position of visibility.

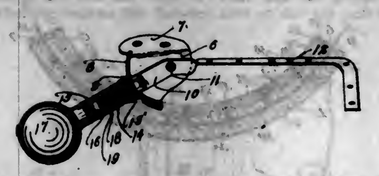
1,399,445. HAND-CRANK. FRANK A. ROSS, Spokane, Wash. Filed July 27, 1920. Serial No. 399,280. 5 Claims. (Cl. 74—33.)



2. The combination with a crank arm, and head having a rotatable, notched, socket-bushing therein, of a shiftable pawl device pivoted in said head, and said head having oppositely disposed recesses adapted to receive said pawl, for the purpose described.

1,399,446. SHIELD. HARRY SIMMONS, Spokane, Wash. Filed Feb. 9, 1921. Serial No. 443,684. 4 Claims. (Cl. 296—95.)

1. The combination with a pair of spaced brackets, of a head pivoted in each bracket, arms on said heads and a shield on said arms, a slotted flange on one of said brackets, a threaded stud on a head movable in said



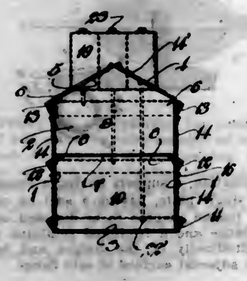
slotted flange, a clamp member on said threaded stud adapted to engage said flange, and a counterweight on said clamp member.

1,399,447. ARCH-SUPPORT. GEORGE F. SPINDEL, Rochester, N. Y. Filed Mar. 8, 1920. Serial No. 363,938. 3 Claims. (Cl. 36—71.)



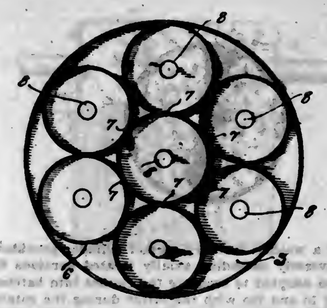
1. In an arch support, the combination of a cover, a plurality of springs under said cover adapted to span over the shank of the shoe from the ball to the heel, the forward ends of said springs being connected by a bow shaped spring plate, said cover being supported by said springs along the length thereof and being supported between the forward ends of the springs by said bow shaped spring plate.

1,399,448. COOLER. WILLIAM O. THOMPSON, Spokane, Wash., assignor of one-half to Harold B. Thompson, Spokane, Wash. Filed Aug. 4, 1920. Serial No. 401,243. 2 Claims. (Cl. 62—91.)



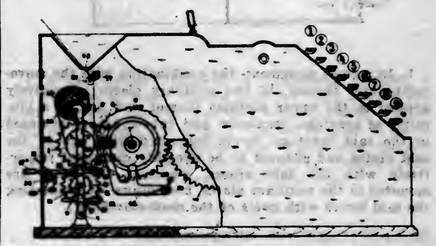
1. The combination with a closed cooling box having a plurality of exterior troughs extended thereabout and formed with upper slots, of a series of curtains attached above the troughs with their lower edges passing through said slots, guard flanges along said slots co-acting with said curtains, a tank having a separate supply compartment for each trough, and a feed pipe from said compartments to a trough.

1,399,449. CAKE-CUTTER. LAURA C. THATHEWAY, Stratford, Ontario, Canada. Filed Aug. 9, 1920. Serial No. 402,217. 3 Claims. (Cl. 107—51.)



1. A cake cutter consisting of a plate, the circumference of said plate being flanged downward, suitable handles attached to the upper side of said plate, cutting members attached to the under side of said plate, said cutting members consisting of strips with one side attached to the under side of said plate and one end of each of said strips forming a complete cutting member and a section of a central cutting member with an end of two adjacent strips abutting on opposite sides of a complete cutting member.

1,399,450. PAPER-STRIP FEED FOR ADDING-MACHINES. FRANZ THIENS, Brunswick, Germany. Filed Sept. 8, 1916. Serial No. 119,018. 11 Claims. (Cl. 101—288.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



6. A paper strip feeding mechanism for adding machines, comprising, in combination, a revoluble platen around which the strip is arranged to pass; an oscillatory frame wherein said platen is mounted; operating means for said frame; a ratchet wheel carried by said frame and geared to said platen; and a pair of oppositely-acting pawls engageable with said ratchet wheel and arranged to rotate the same solely in one direction, one pawl active during one stroke of the frame, and the other pawl during the return stroke thereof, whereby said ratchet wheel and said platen will be fed two steps at each complete oscillation of the frame.

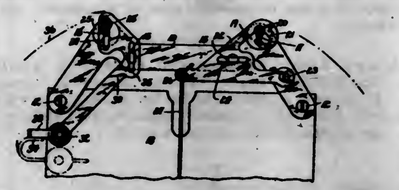
10. In a paper strip feeding mechanism for adding machines, the combination, with a revoluble platen around which the strip is arranged to pass; of an oscillatory frame; operating means for said frame; and mechanism controlled by the oscillation of said frame for feeding said platen, comprising an intermittent motion member, and a pair of oppositely-arranged actuating members therefor, one adapted to actuate said intermittent motion member during one stroke of the frame, and the other adapted to actuate said intermittent motion member in the same direction during the return stroke of the frame.

1,399,451. WASHING-MACHINE. HARVEY H. TROXEL, Ashland, Ohio. Filed Jan. 7, 1921. Serial No. 435,563. 4 Claims. (Cl. 68—18.)



1. In a washer, a rotary washer cylinder provided with a transversely extending axially located pervious flexible partition adapted to separate the clothes into batches and to move to and fro with the latter during the rotation of the cylinder.

1,399,452. CHIME AND STRIKE CLOCK MOVEMENT. FREDERICK WEHINGER, Waterbury, Conn., assignor to Waterbury Clock Co., Waterbury, Conn., a Corporation. Filed Sept. 29, 1921. Serial No. 504,191. 3 Claims. (Cl. 58—13.)



1. In a clock movement, the combination with the movement-plates thereof, of two auxiliary plates respectively applied to the upper portions thereof and having a plurality of bearings, regulator- and cut-out-arbors mounted in the said bearings, levers connected with one of the said plates and adapted to be operably connected respectively with the said arbors, wherever the same are mounted in the auxiliary plates, and means for connecting the said levers with parts of the clock-movement.

1,399,453. CHECKER. HARVEY L. WINSLOW, Waterbury, Conn. Filed Jan. 14, 1921. Serial No. 437,174. 1 Claim. (Cl. 46—65.)



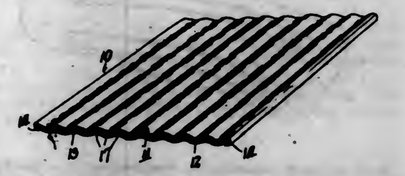
A checker comprising a base member and a crowning member, both formed from cup-shaped pieces of metal, and both formed at their open ends with flanges, the crowning member being inverted and extending into the base-member, the base member being larger in diameter than the diameter of the crowning member, means adapted to hold the crowning member in its depressed position, a spring between the two members, and the base member adapted to be compressed on opposite sides, whereby the crowning member is released.

1,399,454. SEWER-STRUCTURE INVERT-SECTION. JACOB H. ZINN, Indianapolis, Ind. Filed Aug. 16, 1919. Serial No. 317,925. 3 Claims. (Cl. 72—54.)



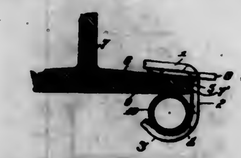
1. In a portable sewer structure invert section, the combination of a curved monolithic concrete body having plane edges and ends with grooves therein one side of the body being concave and having longitudinal grooves therein, and a plurality of segmental tile sections arranged on said concave side and having longitudinal ribs secured in said longitudinal grooves.

1,399,455. WEATHER-BOARD. MORGAN K. ARMSTRONG, Winnetka, Ill., assignor to Bestwall Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Feb. 24, 1920. Serial No. 361,021. 1 Claim. (Cl. 154—45.9.)



A weather board comprising top and bottom surface coverings of fibrous material, and a plaster composition body between and adhered to said surface coverings, said weather board being permeated with a waterproof solution and having longitudinally extending, alternately arranged undulations, and being of substantially the same thickness throughout its width.

1,399,456. PIPE OR CONDUIT HANGER. JAMES F. BARRY, Chicago, Ill. Filed Jan. 20, 1921. Serial No. 438,682. 11 Claims. (Cl. 248—32.)

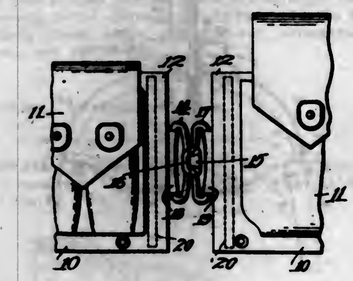


4. In combination, a support having a flange, a hanger formed of a single plate, having a seat on one side the flange and a tongue adapted to be disposed on the other side of the flange and a frictional retaining member extending longitudinally of the tongue and between the same and the adjacent surface of said flange.

1,399,457. WIDE BELT AND FASTENER THEREFOR. FRANK B. BATCHELDER, Worcester, Mass., assignor to Mills Belt Company, Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1919. Serial No. 338,638. 2 Claims. (Cl. 224—23.)

1. As an article of manufacture, a flexible woven cartridge belt having a straight vertical end provided with a

materially shorter centrally located stiff clasp or fastener member constituting an attachment therefrom to the other end of the belt and located in a space between the two ends of the belt but close to them, said belt projecting materially beyond the fastener both at the top and bot-



tom and having secured thereto a resilient flexible strip materially stiffer than the belt itself, but capable of yielding to the motions of the wearer, and extending beyond the top and bottom of the fastener to hold the belt in shape and guard the ends of the stiff fastener so as to prevent it from restricting the bending of his body.

1,399,458. PROCESS OF CYANIDING PRECIOUS-METAL-BEARING MATERIALS. JOHN C. HAUN, Tonopah, Nev., and ALBERT SILVER, San Francisco, Calif. Filed Dec. 4, 1920. Serial No. 428,227. 3 Claims. (Cl. 75—185.)

1. A process of treating precious metal bearing materials which comprises subjecting such materials to the action of a solution containing a cyanid, a bicarbonate and a lead compound capable of combining with the sulfur of sulfids.

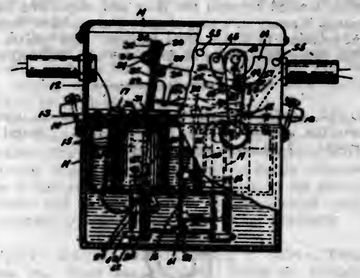
1,399,459. FULLER BALL. DAVID B. BIRD, Chicago, Ill. Filed Sept. 10, 1920. Serial No. 409,312. 6 Claims. (Cl. 251—159.)



5. In a Fuller ball construction, the combination with a crank rod and a hollow valve member of resilient material mounted thereon, of a compression member also mounted on said rod, and having telescopic engagement with the valve member, a filling of resilient material, and means associated with the compression member for actuating the said members to compress the filling material and securing the members together, said filling material being entirely inclosed by the two members.

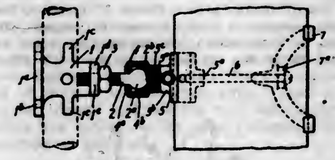
1,399,460. OIL-SWITCH. GEORGE A. BUANHAM, Saugus, Mass., assignor to Sears B. Condit, Jr., Brookline, Mass. Filed May 26, 1917. Serial No. 171,274. 9 Claims. (Cl. 200—17.)

8. An electric switch having starting, running, and neutral positions, an operating handle, operating mechanism arranged to be normally disconnected from said handle and to connect therewith only upon movement of said handle from neutral to starting positions, and electrically-



controlled means to disconnect said mechanism and handle to cause the switch to move from running to neutral positions.

1,399,461. MIRRORSCOPE. CLARENCE E. CHILDS, San Diego, Calif. Filed May 18, 1921. Serial No. 470,581. 6 Claims. (Cl. 45—97.)



1. A mirrorscope including a supporting member, a bolt adapted to screw therein provided with a spherical head, a clamp member provided with a socket portion adapted to engage said head, a lock nut adapted to screw thereon and engage the opposite side of said head, another clamp member and means for securing said clamp members in certain relative position to each other.

1,399,462. BEATING-REED AND BEATING-REED ORGAN. GEORGES CLOETENS, Brussels, Belgium. Original application filed Mar. 20, 1911, Serial No. 615,767. Divided and this application filed June 5, 1914. Serial No. 843,249. 2 Claims. (Cl. 84—35.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A reed organ comprising a plurality of chambers each with an inlet and an outlet, a partition in each chamber located between the inlet and the outlet and having a passage through it, a hinged rigid plate in each chamber spring-pressed to close the passage, said plates

and springs being tuned to give the notes of a musical scale.

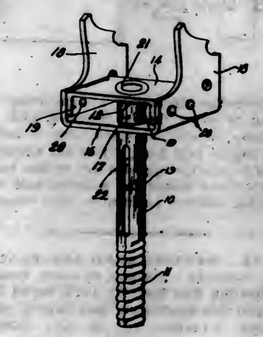
2. A reed organ comprising a plurality of chambers each with an inlet and an outlet, a partition in each chamber located between the inlet and outlet and having a passage through it, a hinged glass plate in each chamber, spring-pressed to close the passage, said plates and springs being tuned to give the notes of a musical scale.

1,399,463. CHECKREIN-HOLDER. ELIOT K. CLOVER, Lohrville, Iowa. Filed Feb. 7, 1921. Serial No. 443,074. 7 Claims. (Cl. 54—61.)



1. A check rein hook including inner and outer split loops connected at their ends to define a mouth entering the inner loop through the outer loop.

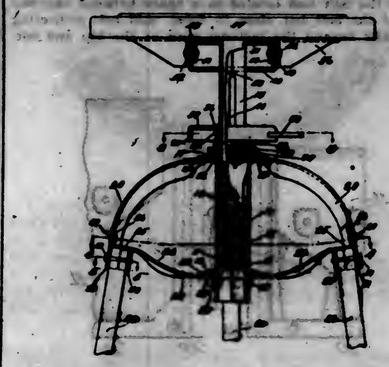
1,399,464. CHAIR-IRON. DAVID R. COLLIER, Gardner, Mass., assignor to Collier-Keyworth Company, Gardner, Mass., a Corporation of Massachusetts. Filed Aug. 19, 1920. Serial No. 404,602. 4 Claims. (Cl. 155—134.)



1. A spindle for swivel chairs and the like, formed of sheet metal rolled into the form of a tube, a head connected with said tube, said head comprising parallel upper and lower plates having apertures through which the spindle projects, a bead and a flange formed at the upper end of the spindle between which the upper plate of the head is secured and a reinforcing tube fitting tightly within the bore of the spindle, and located in the zones of the head.

1,399,465. STOOL. DAVID R. COLLIER, Gardner, Mass., assignor to Collier-Keyworth Company, Gardner, Mass., a Corporation of Massachusetts. Filed Feb. 24, 1921. Serial No. 447,524. 13 Claims. (Cl. 155—135.)

1. A hub consisting of a frame comprising two pairs of separate crossed sheet-metal bars, the ends of the bars of each pair being inverted to the ends of the corresponding bars of the other pair, and the crossed portions of the



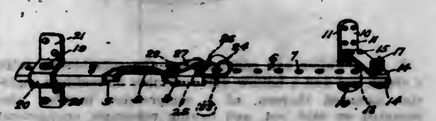
bars of said pairs of bars being provided with alined apertures.

1,399,466. CHAIR-IRON. DAVID R. COLLIER, Gardner, Mass., assignor to Collier-Keyworth Company, Gardner, Mass., a Corporation of Massachusetts. Filed Mar. 17, 1921. Serial No. 452,898. 5 Claims. (Cl. 155—138.)



1. A chair iron hub comprising a central tubular member, a plurality of channel irons disposed about said member and having projecting lugs at one end, and a collar on said tubular member engaging said lugs and securing them to said member.

1,399,467. DOOR-HOLDER. HENRY F. CORDES, Cincinnati, Ohio. Filed Aug. 13, 1920. Serial No. 403,309. 2 Claims. (Cl. 292—267.)



1. A door-holder comprising a pair of telescopically-sliding elongated bar-members, one bar-member being channeled and the other being plain the plain bar having a longitudinal series of holes or perforations pierced therein, a horizontal forked-bracket extending outwardly from the upright side-frame of the door-way and to the outer end of which forked-bracket one end of the said pierced plain bar is pivotally connected, an upright pin extending from the upper face of the said plain bar near its pivotally-connected end and adapted to form a stop in connection with said forked-bracket to limit any further backward-movement of the said plain bar toward the door, a horizontal U-shape bracket-arm extending

from the inner face of the door and to which said channeled-bar is pivotally connected at its outer end and serves as a take-up or compensating pivotal-coupling between the channeled-bar and the inner face of the door, and a pointed latchpin mounted on a handle-bar that is hinged to the inner end of the channeled-bar and adapted to engage the respective holes in the plain bar for holding the door in open position at the desired angle from the door-way, or for otherwise locking the door when shut or entirely closed within said door-way, substantially as shown and described.

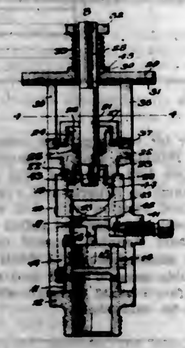
1,399,468. [WITHDRAWN.]

1,399,469. WATER-TOBOGGAN. HENRY CUCELLO, New Orleans, La. Filed Aug. 12, 1921. Serial No. 491,804. 2 Claims. (Cl. 104—70.)



1. A water toboggan, comprising a supporting structure, an elevated platform thereon, an inclined gravity discharge way leading downwardly from the platform to a body of water therebelow, said discharge way consisting of spaced longitudinally disposed side rails, longitudinally disposed channel strips arranged in parallel relation to the inner sides of said rails and a series of transverse rollers supported in said channel strips, the lower end of the discharge way being curved slightly upwardly whereby to effect the ricochetting of a toboggan discharged therefrom over the surface of said body of water, and a return way leading upwardly over the supporting structure to the platform.

1,399,470. BOILER-CHECK SHUT-OFF VALVE. MARTIN A. ENGEN, Willmar, Minn., assignor of one-half to Russell Spicer, Willmar, Minn. Filed June 1, 1918. Serial No. 237,727. 8 Claims. (Cl. 277—65.)



1. In combination, a check valve, a chamber therefor, a shut-off valve, a chamber therefor, a centrally apertured partition through which said chambers communicate, a by-pass between said chambers, and means for controlling the passing of fluid through said by-pass.

1,399,471. METHOD OF PRESERVING VEGETABLES, FRUIT, AND THE LIKE. ARNOLD FASTENRATH, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed May 24, 1917. Serial No. 170,663. 6 Claims. (Cl. 99—5.)

1. Method of preserving fresh vegetables, fruit and the like consisting in separating the juice from said vegetables, fruit and the like, condensing said juice and thereupon mixing said condensed juice again with the pulp obtained by said separation.

6. Preserves in the form of blocks consisting of a mixture of condensed natural juice separated from fresh vegetables, fruit and the like and the remaining pulp, the main body of said blocks containing sufficient moisture to allow of the swelling-up and dissolving of its previously swellable and soluble components, respectively, and being inclosed by a dried film of the same substance.

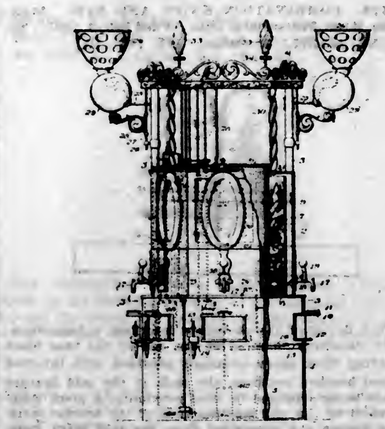
1,399,472. EXPLOSIVE. PATRICK J. GAFFY, Philadelphia, Pa. Filed Apr. 23, 1920. Serial No. 376,052. 1 Claim. (Cl. 52—6.)

The method of making an explosive material, the same consisting in boiling cat-tail fiber in a solution of one-quarter pound of salt dissolved in a quart of water, then thoroughly drying said fiber, and mixing with each pound of fiber one tablespoonful of nitro-glycerin.

1,399,473. PROCESS OF MANUFACTURING CAOUTCHOUC-LIKE SUBSTANCES. FRIEDRICH GRAF DE LA ROSEE, Garmisch-Partenkirchen, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Jan. 8, 1919. Serial No. 270,243. 4 Claims. (Cl. 106—23.)

1. The process of manufacturing caoutchouc-like substances, consisting in melting resins with an addition of chlorid of calcium, subjecting the molten mixture to a repeated distillation process with further addition of chlorid of calcium in connection with chlorid of lime, mixing the thereby obtained oils with india-rubber, and subjecting this mixture to the usual vulcanizing process, substantially as described.

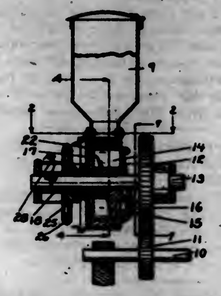
1,399,474. MECHANISM FOR EXTRACTING AND DISPENSING FRUIT-JUICES. DANIEL J. GORMAN, Philadelphia, Pa., assignor to German Fountain and Beverage Manufacturing Corporation, a Corporation of Delaware. Filed June 8, 1920. Serial No. 387,339. 5 Claims. (Cl. 225—21.)



1. The combination of a storage tank for a beverage, a storage tank for beverage ingredients, a conduit leading

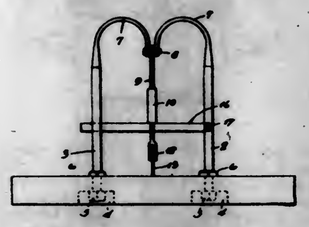
from a lower part to an upper part of said latter tank, a circulating pump in said conduit, a conduit leading from said first conduit to said first tank, and a valve in said conduit to direct liquid from said pump into said first tank.

1,399,475. SEED-PLANTER. JOSEPH HAINES, Claypool, Ind. Filed June 14, 1920. Serial No. 388,850. 8 Claims. (Cl. 221—137.)



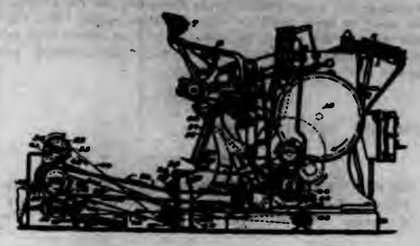
1. In a planter the combination of a hopper having an opening in the bottom thereof, a relatively fixed feed cylinder disposed in said opening and having a feed discharge passage opening at the periphery thereof, a shaft, a feed wheel having an externally threaded hub mounted on said shaft to rotate therewith, said feed wheel being provided with a flange-like rim rotatable upon said cylinder and having axially disposed slot-like seed cups adapted to register with the discharge passage of said feed cylinder as the feed wheel revolves thereon, a feed cup adjusting member provided with a hub having a peripheral groove therein, mounted on said feed wheel hub for axial adjustment thereon and having finger-like cup members disposed to telescope in the cups of said feed wheel, an adjusting wheel for said cup adjusting member threaded upon said feed wheel hub and having a lug engaging said groove in said cup adjusting member hub, and driving means for said shaft.

1,399,476. COMBINATION KNIFE AND SAW. ALEXANDER HALL, Portsmouth, Ohio. Filed Feb. 8, 1921. Serial No. 443,377. 3 Claims. (Cl. 146—12.)



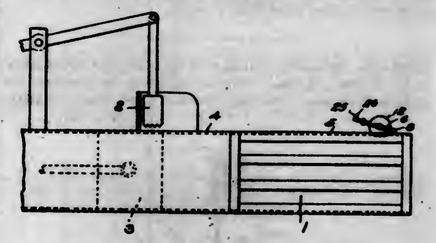
1. In a device of the character described, a base block, upright standards mounted at one end of the base block and having their upper terminals provided with inverted U-shaped bracket members, the ends of the said bracket members being arranged in close proximity, a pivot member carried by the said meeting ends of the bracket members, a hanger rod suspended from the said pivot member, and a cutting element carried by the lower end of the said hanger rod and adapted to extend across the surface of the said block.

1,399,477. DELIVERY ATTACHMENT FOR PRINTING-PRESSES. HARRY F. HAMPSHIRE and FRANK B. CRAWMER, Philadelphia, Pa., assignors to Thomson Printing Company, a Corporation of New Jersey. Filed Dec. 24, 1920. Serial No. 432,014. 7 Claims. (Cl. 271—64.)



2. A delivery mechanism, comprising a conveyer-belt extending between two rolls and operative to convey sheets of paper from a printing-press toward the second of said rolls, a frame operative to support said second roll, third and fourth rolls also supported by said frame upon substantially opposite sides of said second roll, a belt extending over and between said third and fourth rolls and movable in fixed relation with said first belt over said second roll, said second belt being operative to maintain a sheet upon said first belt until the sheet is substantially inverted beneath said first roll, a roll adjacent to the lower portion of said second belt, means operative to lead the sheet from said second belt and toward said last-named roll, and a tray adapted to receive sheets from said last-named roll.

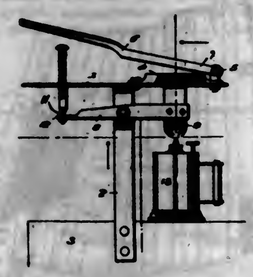
1,399,478. INDICATOR FOR BALING-PRESSES. HENRY H. HARDT, Gibsonia, Pa. Filed Jan. 25, 1921. Serial No. 439,793. 7 Claims. (Cl. 116—114.)



1. An indicator for baling presses comprising a frame, a serrated wheel rotatably mounted therein on a horizontal axis, said frame being provided with means to pivotally mount the same on a horizontal axis on top of the press in an inclined position with said wheel projecting into the compression chamber and riding on the bale being formed, a shaft mounted in said frame normal to the axis of said serrated wheel, a friction wheel longitudinally adjustable on said shaft and peripherally engaging the side face of said serrated wheel, and an indicator actuated by said shaft.

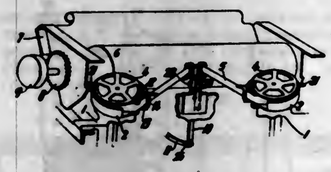
1,399,479. MACHINE FOR DOCKING LAMBS' TAILS. RICHARD COOPS HARVEY, Lethbridge, Alberta, Canada. Filed July 8, 1920. Serial No. 394,791. 8 Claims. (Cl. 128—305.)

1. A tail docking device comprising a support, a blade affixed thereto, a lever pivoted to said support and provided with a sharpened surface to cooperate with the fixed blade of the support, and a heated finger movable with



respect to said support and arranged adjacent to said cutting edges adapted to singe the part being severed.

1,399,480. TYPEWRITING-MACHINE. WILLIAM F. HELMOND, Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 19, 1919. Serial No. 283,500. 8 Claims. (Cl. 197—151.)

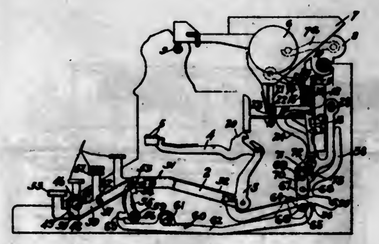


1. In a typewriting machine, the combination with ribbon mechanism including a pivoted ribbon-tension arm, a pivoted ribbon-spool-supporting drum, and means for limiting the movement of each, of a spring connecting said drum and said arm, said spring serving as means for holding each of said pivoted members in a normal position and for returning each to said position when removed therefrom.

7. In a ribbon mechanism, a ribbon-vibrator formed of a single piece of metal and having open-ended slots for guiding and supporting the ribbon, the entrance to each of said slots being restricted by a finger extending substantially thereacross and having its end bent slightly to the rear, so as to permit insertion of the ribbon and to lie directly thereacross when the ribbon is in its normal path, the ribbon-vibrator being also provided adjacent the outer edge of each slot with a finger projecting forwardly therefrom so as to lie across the ribbon as it extends from the slot in its normal path.

1,399,481. TYPEWRITING-MACHINE. WILLIAM F. HELMOND, Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 24, 1919. Serial No. 292,270. 20 Claims. (Cl. 197—78.)

1. In a typewriting machine, the combination with a shiftable platen, of means, including a shift frame, for moving said platen, a shift lever for actuating said shift frame, means for locking said shift frame in either upper or lower-case position including a pin connected with said shift frame to move therewith, and means to adjust said pin with reference to said shift frame, and thereby determine the upper and lower-case positions assumed by the shift frame, said adjusting means being



accessible from the outside of the machine when the same is in normal upright position.

1,399,482. WRINGER. HERMAN C. HIRSCHY, Minneapolis, Minn. Filed Mar. 1, 1920. Serial No. 362,319. 7 Claims. (Cl. 68—32.)



5. In combination, a wringer frame having separable sections, a roll journaled in each section, separable intermeshing pinions normally connecting the two rolls, one roll having a gear fixed within its frame section to its shaft, and a drive member mounted in part in the companion frame section for meshing with the gear and separable therefrom upon separating the frame sections.

1,399,483. PNEUMATIC PICK-UP. HENRY S. HORNBECK, Union Hill, N. J. Filed July 22, 1920. Serial No. 398,119. 1 Claim. (Cl. 294—64.)

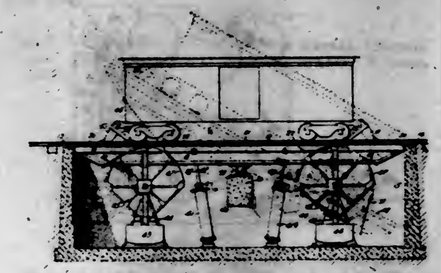


The combination with a suction pick-up having a recess in its working face, of a rod extended centrally through the recess and projected rigidly beyond the plane of the working face and within the boundary thereof.

1,399,484. CAR UNLOADING OR DUMPING APPARATUS. EDMUND M. HULL, Buffalo, N. Y. Filed Apr. 8, 1918. Serial No. 227,209. 16 Claims. (Cl. 214—47.)

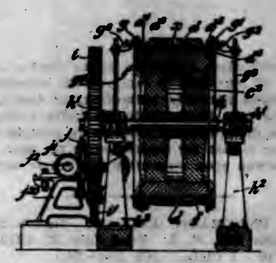
1. In a car unloading apparatus, the combination of a pivoted table, opposite movable car-supporting rails on said table, fluid pressure actuated mechanism sup-

ported by said table for moving said mills simultaneously relatively to said table, one upwardly and the other



downwardly to tilt the car sidewise, and means for tilting said table endwise.

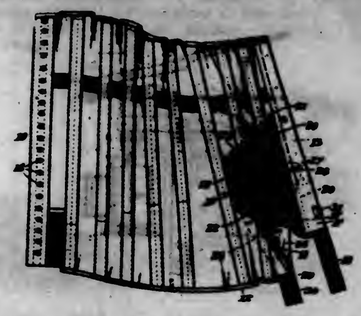
1,399,485. PLASTER-SLAB-MOLDING MACHINE. Frank Mihill Johnson, Mitcham, England, assignor of one-half to Cafferata & Co., Newark-upon-Trent, Nottingham, England. Original application filed Dec. 15, 1919, Serial No. 345,620. Divided and this application filed May 11, 1921. Serial No. 465,772. 3 Claims. (Cl. 25—39.)



1. A plaster slab molding machine comprising a molding table, an endless conveyer movable over said table and constituting a continuous base for the mold, swinging members disposed one at each side of the conveyer to constitute mold walls, and a roller adjacent the delivery end of the table having a curved periphery about which the conveyer passes to move said swinging members apart.

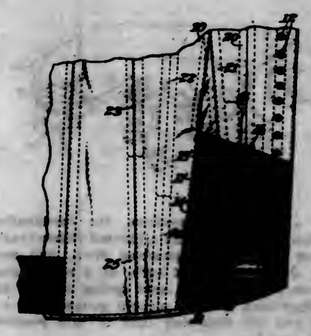
1,399,486. APPAREL-CORSET. Daniel Kops, New York, N. Y. Filed Nov. 16, 1920. Serial No. 424,341. 4 Claims. (Cl. 2—73.)

1. In an apparel corset comprising corset body halves having skirt members and in each corset body half, a front steel, an extension of the corset body half below the lower end of the front steel, and a supporting strap secured at one edge adjacent the front steel and extending from the lower end of the said extension to the upper portion of the abdomen and also extending rearwardly on the inner side of the garment and attached at its opposite edge to the body of the garment forward of the hip section so that the lower edge of the supporting strap lies directly in the main section of the wearer, whereby the adjustment of the garment to position on



the body places a tension on the said supporting strap causing the strap to conform to the lower portions of the abdomen to act as a support for the same.

1,399,487. APPAREL-CORSET. Daniel Kops, New York, N. Y. Filed Feb. 17, 1921. Serial No. 445,628. 2 Claims. (Cl. 2—73.)

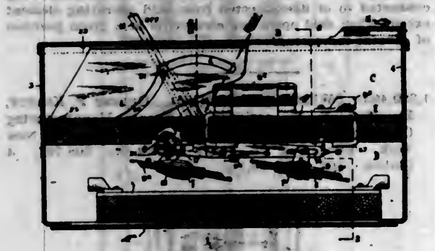


1. In an apparel corset and in each corset body half thereof, a yielding tension strap continuing at one edge, the back lacing edge of the garment, connected at its opposite edge to the adjacent portion of the garment and extending from the lower edge of the garment upwardly to the upper portions of the buttock section of the garment, and stay members placed in diverging positions in the body of the garment with the lower ends thereof extending an appreciable distance below the upper edge of the yielding tension strap whereby the pressure exerted by the tension strap against the lower ends of the stays causes the latter to bridge a hollow at the back of the wearer and thereby produce a flat back effect.

1,399,488. SAFETY STARTING-SWITCH. Hubert F. Krantz, Brooklyn, N. Y., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Mar. 22, 1916. Serial No. 86,854. 2 Claims. (Cl. 200—8.)

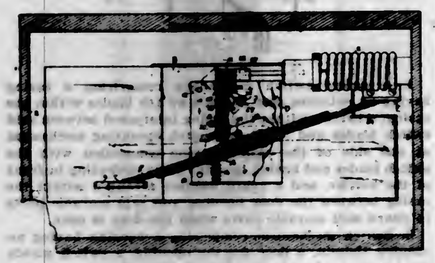
2. A switching device comprising an inclosing casing, a door in the front wall thereof to give access therein, a plate of insulating material arranged within the casing spaced from the door, a barrier of insulating material

within the casing arranged between the insulating plate and the door substantially parallel with the insulating plate to form a fuse compartment between itself and the door accessible when the door is open and to form a guarded switch compartment between itself and the insulating plate that is inaccessible, an elongated contact



member extending along the front of the insulating plate within the switch compartment, a contact member disposed at one side of the barrier within the switch compartment, a switch for engaging the contact members, a fuse disposed on the barrier in the fuse compartment and connected to one of the contact members, and means for actuating the switch.

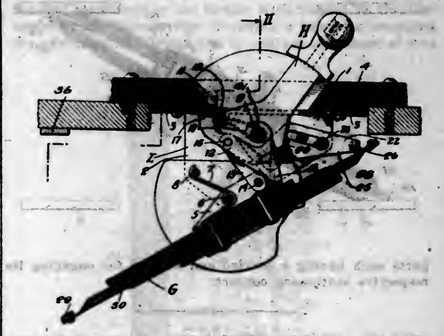
1,399,489. SAFETY CUT-OUT. Hubert F. Krantz, Brooklyn, N. Y., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Apr. 6, 1916. Serial No. 89,350. 12 Claims. (Cl. 200—50.)



12. A switching device comprising a housing having a cover provided with an opening therein, a door for said opening hinged to swing into open and closed positions, a switch blade located within the housing and carried by the said door and having a part that is movable into and out of position beneath the cover to retain the door closed and means carried by the door for moving the switch blade and for locking the switch blade in its retaining position.

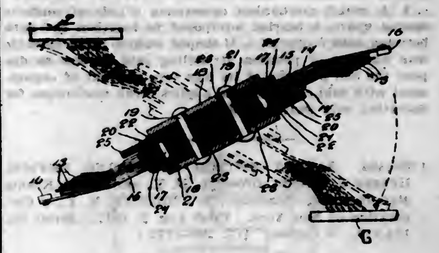
1,399,490. ELECTRIC-SWITCH MECHANISM. Hubert Krantz, Brooklyn, N. Y., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed June 16, 1917. Serial No. 175,191. 11 Claims. (Cl. 200—67.)

1. As an article of manufacture, a switch unit combining a base plate having an opening therethrough, a switch member and operating mechanism therefor located at one side of said base plate and including a toggle for retaining the switch member in open position and means for moving the switch member to closed position with a snap action when the toggle is broken, and an operating handle



located at the other side of said base plate and having a lost-motion connection therewith and adapted to directly engage the knee of the toggle and to "break" the toggle and permit closing movement thereof independently of the handle.

1,399,491. SWITCH BLADE AND PROCESS. Hubert Krantz, Brooklyn, N. Y., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed June 16, 1917. Serial No. 175,192. 6 Claims. (Cl. 200—166.)

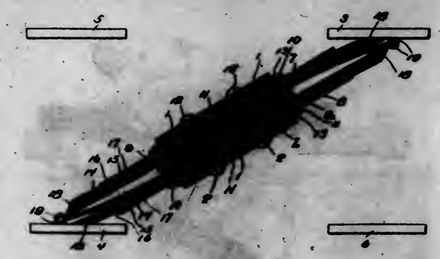


6. A switch blade comprising a main portion and an end portion, and the end portion comprising a plurality of separate parts arranged to collectively provide a contact portion at the end of the blade, and said end parts normally projecting from the main portion in outwardly diverging relation to constitute a beveled portion.

1,399,492. DOUBLE SWITCH-BLADE. Hubert Krantz, Brooklyn, N. Y., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Original application filed Mar. 11, 1915, Serial No. 27,298. Divided and this application filed June 16, 1917. Serial No. 175,193. 12 Claims. (Cl. 200—166.)

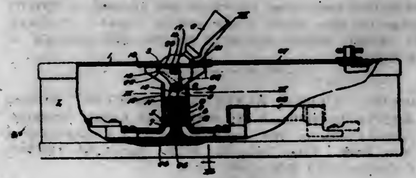
1. A switch blade comprising a body part, and a pair of contact parts having relatively movable laminations projecting from one side of the body part in the same general direction, the body part comprising means whereby the switch blade may be supported to swing the end por-

tions of said contact parts from one stationary contact to another, and the end portions of said laminated contact



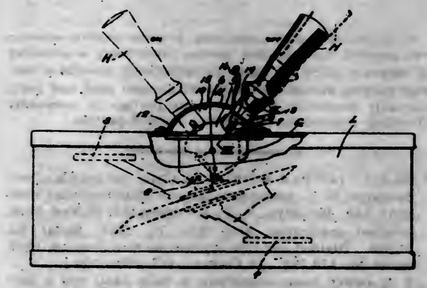
parts each having a beveled end surface for engaging its respective stationary contact.

1,399,493. SWITCH MECHANISM. HUBERT F. KRANTZ, Brooklyn, N. Y., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed June 16, 1917. Serial No. 175,196. 6 Claims. (Cl. 200—16.)



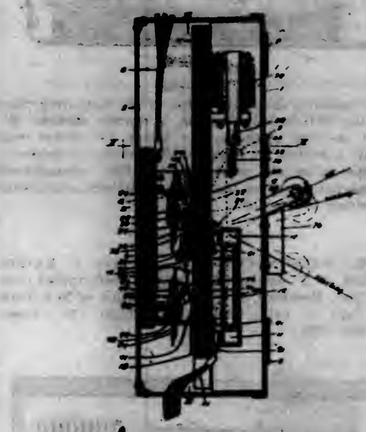
1. A switch mechanism comprising a pair of contacts spaced apart, a barrier interposed to lengthen the path between said contacts, a U-shaped switch blade movable into and out of position straddling said barrier to dispose the end portions of its legs into and out of engagement with said contacts, and a quick-break mechanism for operating said switch blade.

1,399,494. SAFETY-SWITCH-OPERATING DEVICE. HUBERT F. KRANTZ, Brooklyn, N. Y., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Aug. 2, 1917. Serial No. 184,010. 3 Claims. (Cl. 200—172.)



3. In a switch mechanism comprising a box, a switch blade therein, and a pivotally mounted operating element for said switch blade projecting outwardly through an opening in one wall of said box, the combination therewith of a guard member fixed to the mentioned wall of the box in a position substantially inclosing the projecting portion of said operating element, a separate handle having a part adapted to be inserted through an opening in said guard member and into functional relation with said operating element, and said guard member and said handle having parts cooperative to prevent the handle from being connected to or disconnected from said operating element except when said operating element is in a given position of pivotal movement.

1,399,495. SWITCH MECHANISM. HUBERT F. KRANTZ, Brooklyn, N. Y., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Dec. 26, 1917. Serial No. 208,797. 4 Claims. (Cl. 200—50.)

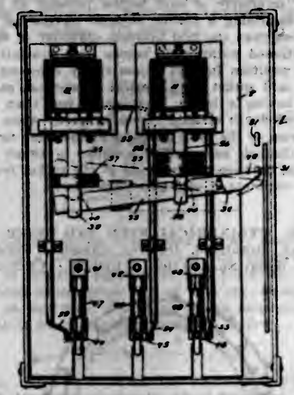


1. A safety switch mechanism comprising a casing having an entrance door thereto, switch blades within the casing, a barrier within the casing interposed between said switch blades and the door, switch operating mechanism at one side of the casing having connection with the switch blades and having movable parts projecting in front of the barrier, and a guard member arranged within the casing between the door opening and said movable parts to guard said movable parts when the door is open.

3. Switch mechanism comprising a housing having an opening therein, a door for the opening, a switch within the housing, a detachable barrier within the housing interposed between the switch and the door, switch-operating mechanism within the housing and operable from the exterior thereof, and an electrically-actuated means mounted on, and removable with, the barrier and engaging the switch mechanism for actuating the switch mechanism under predetermined current conditions.

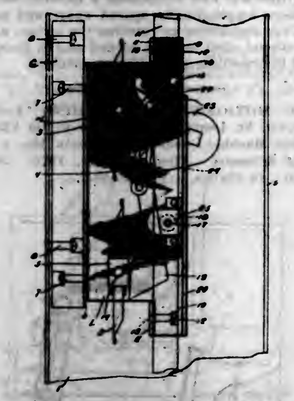
1,399,496. NO-VOLTAGE RELEASE-SWITCH. HUBERT F. KRANTZ, Brooklyn, N. Y., assignor to Krantz Manufacturing Company Inc., Brooklyn, N. Y., a Corporation of New York. Filed Dec. 26, 1917. Serial No. 208,796. 8 Claims. (Cl. 200—94.)

3. The combination with a three-pole switch having a pivoted operating member, of a pair of core members of different weights for engaging the operating member at different distances from the pivot therefor, the heavier member being disposed nearer to the pivot than the lighter member, and a tripping coil for each core member for retaining the members out of engagement with the operating member when the coils are energized and so connected across the pole of the switch that interruption of current through either pole of the switch will cause



sufficient reduction of current through one coil to permit the core member thereof to drop into actuating engagement with the operating member.

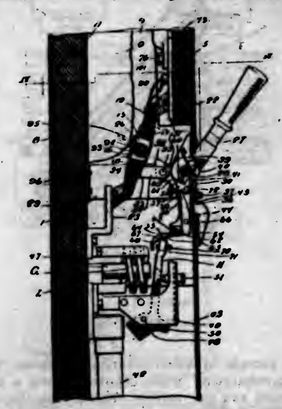
1,399,497. SUPPORTING-BRACKET FOR SWITCH MECHANISM. HUBERT F. KRANTZ, Brooklyn, N. Y., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Aug. 5, 1918. Serial No. 248,228. 7 Claims. (Cl. 200—166.)



1. In a switch mechanism comprising a pair of walls spaced apart, a contact supported by one of said walls, and a switch blade intermediate said walls movable into and out of engagement with said contact, the combination therewith of a supporting bracket for said switch blade and said two walls, said supporting bracket comprising a single piece of material shaped to provide attaching means for each of said elements and having a laterally projecting flange formed thereon serving as a guard member for said switch blade.

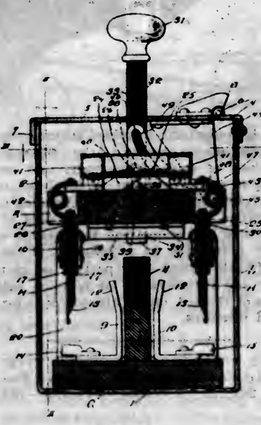
1,399,498. SAFETY-SWITCH MECHANISM. HUBERT F. KRANTZ, Brooklyn, N. Y., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Aug. 5, 1918. Serial No. 248,330. 19 Claims. (Cl. 200—88.)

11. A safety switch mechanism comprising a switch blade movable into "on" and "off" positions, a contact for the switch blade, an operating handle for the switch blade, connections between the operating handle and the switch blade whereby to move the switch blade in response to the movements of the handle and which permit independent movement of the handle with respect to the connections, said connections including a pawl for engaging the operating handle adapted to produce movement of said



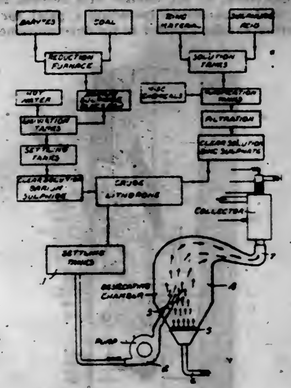
connections by movement of the handle in one direction, said connections also including a toggle, a member pivotally connected to one link of said toggle, and means to move said member about its pivot for disengaging said pawl from said handle, and said last mentioned means being adapted also to thereafter move said member with said link to operate the toggle.

1,399,499. SWITCH MECHANISM. HUBERT F. KRANTZ, Brooklyn, N. Y., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Sept. 6, 1918. Serial No. 252,877. 25 Claims. (Cl. 200—50.)



2. A switch mechanism comprising a pair of elements spaced apart and adapted for receiving the opposite ends of a fuse, a pair of contacts one associated with each of said elements, and switch devices relatively movable with respect to the fuse and to one another for making and breaking electrical connection between each of said elements and its respective contact.

1,399,500. PROCESS OF MANUFACTURING LITHOPONE. CHARLES B. KUSELL, Clarkdale, Ariz. Filed Aug. 15, 1921. Serial No. 492,342. 7 Claims. (Cl. 134—78.)



5. The process of manufacturing lithopone which consists in precipitating crude lithopone from a mixture of barium sulfid and zinc sulfate, discharging the liquid containing crude lithopone as a fine spray into a current of heated air whereby the zinc sulfid constituent of the lithopone will undergo a partial superficial oxidation and thereafter collecting the finished product as a finely divided powder.

1,399,501. BED-SPRING. HARRY LITVAK, New York, N. Y. Filed July 22, 1920. Serial No. 398,077. 1 Claim. (Cl. 5—65.)



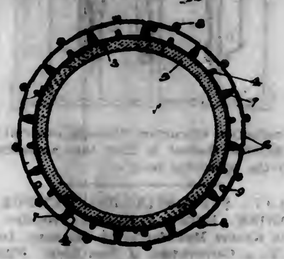
A bed spring comprising a divided spring body of woven wire mesh, cross pieces secured to the end portions of the divided portions of said spring body, said cross pieces having resilient means adjacent to the head and foot of the bed for attachment to a bed, and threaded members in opposed operative relation at the free ends of the cross pieces for joining and separating the divided spring portions and for permitting an adjustment of the space between said divided spring body portion so as to take up any slack or sag therebetween or between said portions and the sides of the bed, and a hinged cover for the space and threaded members.

1,399,502. ELECTRICAL PROTECTIVE DEVICE. JAMES J. LOUGH, New York, N. Y. Filed Dec. 18, 1918. Serial No. 267,225. 8 Claims. (Cl. 173—358.)



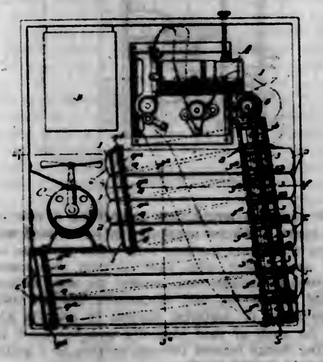
1. The combination with an electrical socket provided with a uniform circular hollow member of electrically conducting material serving as one contact and of predetermined depth for receiving the base of an electrical lamp or plug, said socket having its other contact insulatingly mounted interiorly of said hollow member of protecting means comprising a hollow element having an outer diameter less than the said uniform diameter of said recess and positioned within said recess, said protecting device when in position in said recess freely exposing the contacts of said socket for electrical connection, said hollow element having a length appreciably less than said predetermined depth of said recess, whereby upon insertion of the lamp or the plug the base of the lamp or the plug extends through said hollow member to afford electrical connection between the contacts of the socket respectively with the contacts of said base respectively.

1,399,503. CYLINDRICAL KILN AND DRIER. GEORGE MCCRAE, Brantford, Ontario, Canada. Filed Oct. 6, 1920. Serial No. 415,199. 7 Claims. (Cl. 222—7.)



1. A cylindrical kiln comprising a metallic shell; annular members longitudinally spaced apart and secured to the shell for supporting or rotating the latter; and an external sectional shell secured to and spaced from the kiln shell and intermediate two adjacent members.

1,399,504. MOTION-PICTURE MACHINE. PAUL J. MCCULLOUGH, St. Louis, Mo., assignor to De Vilbiss Endless Film Machine Company, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 19, 1920. Serial No. 404,640. 15 Claims. (Cl. 88—18.7.)



1. In a film feeding machine, a plurality of independent compartments, each adapted to receive and store a portion of a continuous film and each having gates through which it receives and discharges film; a discharging gate on one compartment being adapted to deliver to the receiving gate of the next compartment; means being provided for positively advancing the film from each compartment to the next.

1,399,505. LIGHTING SYSTEM AND MEANS FOR CONTROLLING THE SAME. WILLIAM K. MCIVER, Elgin, Ill., assignor, by mesne assignments, to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Oct. 14, 1916. Serial No. 125,724. 5 Claims. (Cl. 200—1.)

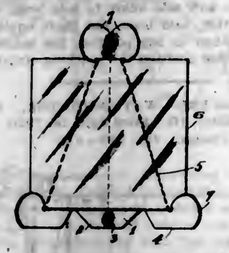


2. An electric switch comprising a plate adapted to be attached to a supporting member, an open-ended cap mounted in inverted position on said plate, an insulated base secured in the upper end of said cap, switch blades mounted on said base, and an operating member mounted on said plate for operating said switch blades.

1,399,506. MANUFACTURE OF CADMIUM PIGMENT. JOHN R. MARSTON, Clarkdale, Ariz. Filed Aug. 15, 1921. Serial No. 492,472. 5 Claims. (Cl. 134—78.)

3. In the manufacture of cadmium pigment, the process which consists in treating zinc dust precipitates containing metallic copper and cadmium with dilute sulfuric acid to dissolve the zinc as zinc sulfate, thereafter heating the mixture to a temperature to effect a solution of the cadmium as cadmium sulfate, drawing off the solution and thereafter treating the same with barium sulfid to precipitate the zinc and cadmium as sulfids and produce a paint pigment.

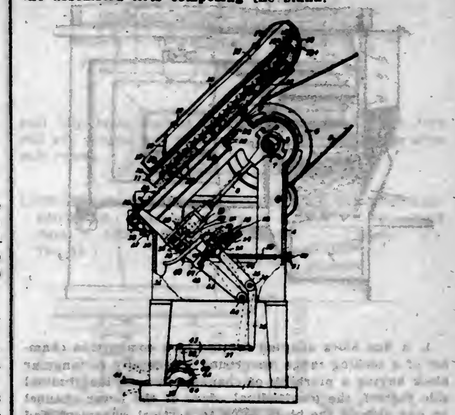
1,399,507. EASEL. AMERICUS C. MILLS, Jr., deceased, Rochester, N. Y., by Minnie C. Mills, executrix, Rochester, N. Y. Filed May 27, 1920. Serial No. 384,706. 2 Claims. (Cl. 40—149.)



1. An easel comprising two members hinged together and each having a supporting portion against which the back of a flat article may rest, and oppositely extending projections at the ends of said portions having overhanging portions for binding against the front face of an article as the members swing outward on their hinges to confine the article on said supporting portions, the projections at the lower end of each member being farther removed from the hinge than that at the upper end of each member so that the article occupies an inclined position on the support.

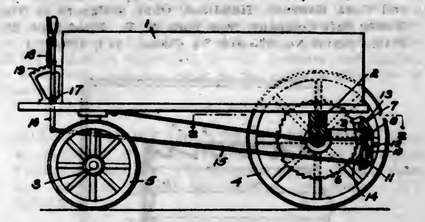
1,399,508. HEEL-BLANK BUILDING. JOHN E. MITCHELL and DENNIS PARKS, St. Louis, Mo. Filed Dec. 28, 1920. Serial No. 432,695. 12 Claims. (Cl. 12—50.)

1. The method of successively detaching heel-blanks temporarily maintained in column formation, which consists in advancing the column of blanks in stages and continuously forcing one end of the column of heel-blanks in a path diverging from that of the column, in such manner as to bodily deflect each blank in turn from the column without disturbing the relative positions of the assembled lifts composing the blank.



8. In a machine of the class described, the combination of a holder for a series of heel-blanks and separators in column formation, means for forcing successive blanks and separators into the holder at one end thereof, and a lateral extension at the remote end of the holder for guiding the blanks and separators laterally and effecting their successive detachment from the column.

1,399,509. VEHICLE-REVERSE LOCK. DAVID MIZRUCHY, Pittsburgh, Pa. Filed Apr. 19, 1920. Serial No. 374,878. 4 Claims. (Cl. 188—30.)

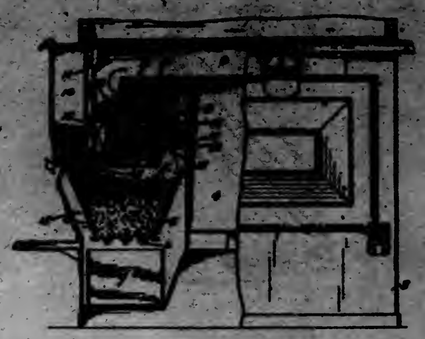


1. In a vehicle, in combination with a vehicle wheel, of a ratchet plate rotatable with the wheel, a detent pivotally attached to a fixed part of the vehicle and arranged to engage the ratchet plate and prevent rearward rotation of said plate and vehicle wheel, a rocking frame pivoted on the detent axis, a projecting finger on said frame arranged to engage the detent and hold it out of operative relation to the ratchet plate, and means for rocking said frame.

1,399,510. PROCESS OF MAKING TANNING MATERIALS. WILLY MOELLER, Hamburg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Mar. 14, 1916. Serial No. 84,246. 7 Claims. (Cl. 23—24.)

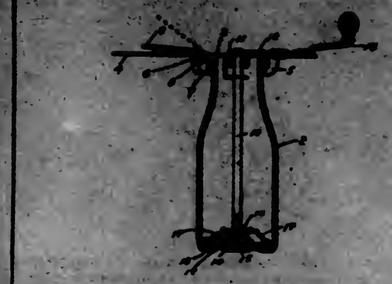
1. The preparation of a tanning agent which comprises condensing a derivative of an aromatic hydrocarbon to an insoluble condensation product, and subsequently oxidizing said condensation product until a substantially water soluble material is obtained.

1,399,511. FLUE-BLOCK FOR HEATING AND COOKING. Benno Mannasse, Minneapolis, Minn. Filed Jan. 14, 1920. Serial No. 351,241. 2 Claims. (Cl. 126—92.)



1. A flue block adapted for use in a combustion chamber of a cooking range comprising a generally rectangular block having a plurality of channels in each longitudinal side thereof, the longitudinal edges of the lower channel on one side of the block being in vertical alinement and the longitudinal edges of the upper channel in the opposite sides being in vertical alinement, the upper edge of the upper channel in the first mentioned side being disposed inwardly of the edges of the lower channel and the lower edge of the lower channel in the second mentioned side being disposed inwardly of the edge of the upper channel on that side, said block having a plurality of transverse flues extending therethrough and connecting the channels at each side of the block.

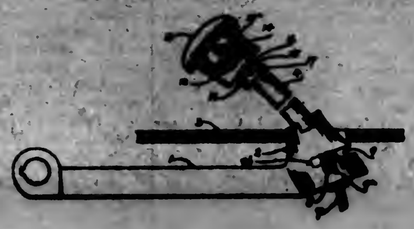
1,399,512. SAFE. Moses Moulin, New York, N. Y., and Carl Bartels, Hamilton, Ohio, assignors to The [illegible] Co., a Corporation of Ohio. Filed Jan. 14, 1920. Serial No. 351,241. 2 Claims. (Cl. 126—92.)



thereby a movable jaw mounted to engage the neck of the bottle on the opposite side from said fixed jaws, a

shaft mounted in said plate, means for revolving said shaft, and a beating device carried by said shaft.

1,399,514. MOTOR-VEHICLE LOCK. Brice Owen, Los Angeles, Calif. Filed Nov. 9, 1920. Serial No. 422,830. 2 Claims. (Cl. 70—128.)



2. In a motor vehicle the combination of a clutch lever and a pedal shaft slidable therein; and a lock in said

1,399,501. BED-SPRING. Henry Lutyar, New York, N. Y. Filed July 22, 1920. Serial No. 398,077. 1 Claim. (Cl. 5—68.)



A bed spring comprising a divided spring body of woven wire mesh, cross pieces secured to the end portions of the divided portions of said spring body, said cross pieces having resilient means adjacent to the head and foot of the bed for attachment to a bed, and threaded members in opposed operative relation at the free ends of the cross pieces for joining and separating the divided spring portions and for permitting an adjustment of the space between said divided spring body portion so as to take up any slack or sag therebetween or between said portions and the sides of the bed, and a hinged cover for the space and threaded members.

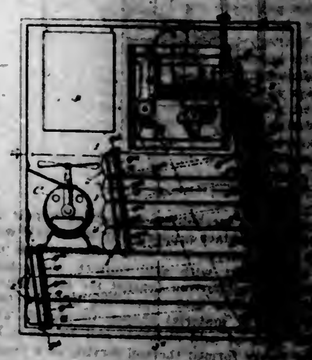
1,399,502. ELECTRICAL PROTECTIVE DEVICE. James J. Lonsr, New York, N. Y. Filed Dec. 18, 1918. Serial No. 267,225. 8 Claims. (Cl. 173—358.)



1. The combination with an electrical socket provided with a uniform circular hollow member of electrically

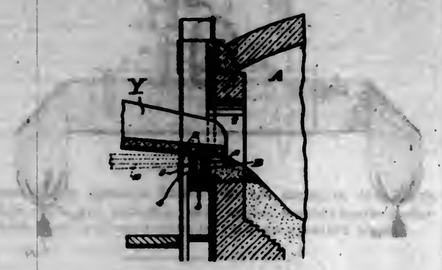
1. A cylindrical film comprising a [illegible] shell, [illegible] members longitudinally spaced apart and secured to the shell for supporting or rotating the latter, and an external sectional shell secured to and spaced from the film shell and intermediate two adjacent [illegible].

1,399,504. MOTION-PICTURE MACHINE. Paul J. McCullough, St. Louis, Mo., assignor to The Vitaloo Motionless Film Machine Company, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 23, 1920. Serial No. 404,640. 15 Claims. (Cl. 88—18.5.)



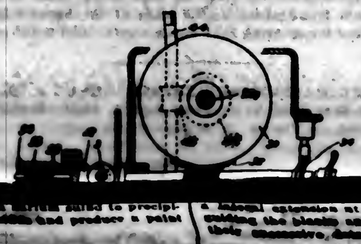
1. In a film feeding machine, a plurality of [illegible] compartments, each adapted to receive a portion of a continuous film and each which is received and [illegible] an one compartment, being [illegible] ceiving gate of the next [illegible] vided for positively advancing the film [illegible] ment to the next.

1,399,516. FALSE SILL FOR OPEN-HEARTH-FURNACE DOORS. Thomas Porter, deceased, by Nellie Porter, administratrix, Millin township, Allegheny county, Pa. Filed Jan. 10, 1921. Serial No. 436,151. 3 Claims. (Cl. 263—1.)

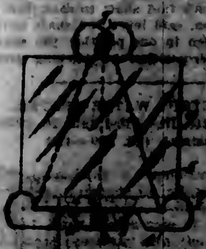


1. A false sill as and for the purpose described, comprising a substantially rectangular body portion, and a projecting head portion having a recess therein for the reception of the pool of a charging machine.

1,399,517. PHONOGRAPH-MOTOR. Ernest J. Postal, Grand Rapids, Mich. Filed May 22, 1919. Serial No. 299,081. 4 Claims. (Cl. 185—37.)



1,399,507. HASEL. Asbricus C. Mills, Sr., deceased, Rochester, N. Y., by Minnie C. Mills, executrix, Rochester, N. Y. Filed May 27, 1920. Serial No. 384,703. 2 Claims. (Cl. 46—202.)



1. An easel [illegible] and each having [illegible] back of a flat [illegible] projections at the [illegible] ing portions for [illegible] cle as the [illegible] fine the [illegible] at the lower [illegible] from the [illegible] so that the [illegible] support.

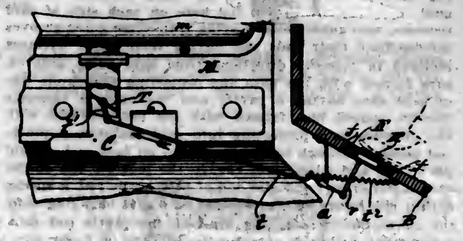
1,399,508. [illegible] Mitchell [illegible] Dec. 28, [illegible] 12—50.) 1. The [illegible] temporarily

fastened to said chain, and a retaining clip pivoted to the trap for preventing accidental withdrawal of the lure, said clip being curved longitudinally whereby its free end will project into the recess when in registration with said recess.



1,399,519. CARBURETER-CONTROL MEANS FOR GAS-ENGINES. Thomas Redfern, Kearney, N. J. Filed July 3, 1920. Serial No. 393,944. 2 Claims. (Cl. 74—81.)

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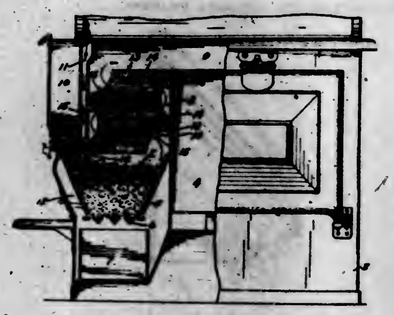
1. In combination with a gas motor of the character designated, a throttle valve controlling means comprising a rock lever pivotally mounted and provided on one side of its fulcrum with a rigid thrust arm connected with a valve-actuating rod and formed with rockable means on the other side of its fulcrum adapting it to be rocked laterally in one direction as related to the throttle valve

1,399,509. VEHICLE-REVERSE LOCK. David Mitchell, Pittsburgh, Pa. Filed Apr. 19, 1920. Serial No. 374,393. 6 Claims. (Cl. 280—33.)



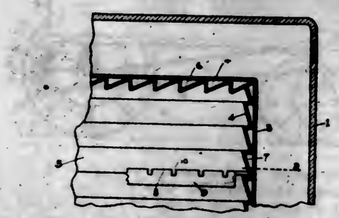
2. In a [illegible] with a [illegible] wheel, of a [illegible] and ar- [illegible] and each [illegible] of said [illegible] to engage said [illegible] a [illegible] and [illegible] a [illegible] and [illegible] a [illegible] and

1,399,511. FLUE-BLOCK FOR STOVES AND THE LIKE. Peter Mequier, Minneapolis, Minn. Filed Jan. 16, 1920. Serial No. 351,911. 2 Claims. (Cl. 126—83.)



1. A flue block adapted for use in a combustion chamber of a cooking range comprising a generally rectangular block having a plurality of channels in each longitudinal side thereof, the longitudinal edges of the lower channel on one side of the block being in vertical alinement and the longitudinal edges of the upper channel in the opposite sides being in vertical alinement, the upper edge of the upper channel in the first mentioned side being disposed inwardly of the edges of the lower channel and the lower edge of the lower channel in the second mentioned side being disposed inwardly of the edges of the upper channel on that side, said block having a plurality of transverse flues extending therethrough and connecting the channels at each side of the block.

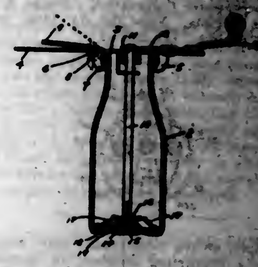
1,399,512. SAFE. Moses Mosler, New York, N. Y., and Carl Barthels, Hamilton, Ohio, assignors to The Mosler Safe Company, New York, N. Y. Filed Sept. 22, 1919. Serial No. 325,578. 1 Claim. (Cl. 109—1.)



In a safe, the combination of a lining member, a corrugated inner lining secured against the inner vertical surfaces of said lining member, to present alined horizontal shoulders on opposite sides, a corrugated lining secured to the ceiling of said lining member, to present vertical shoulders, and a shelf adapted to rest on said horizontal shoulders and having vertical grooves, adapted to receive the bottom edges of partitions having their upper edges engage said vertical shoulders.

1,399,513. EGG-BEATER. Albert F. Nyberg, Minneapolis, Minn. Filed Apr. 19, 1920. Serial No. 374,990. 4 Claims. (Cl. 259—182.)

1. An egg beater comprising a plate, jaws fixed thereon and adapted to engage the neck of a bottle on one side thereof, a movable jaw mounted for engaging the neck of the bottle on the opposite side from the fixed jaws,



shaft mounted in said plate, means for rotating said shaft, and a beating device carried by said shaft.

1,399,514. MOTOR-VEHICLE LOCK. Emma Owen, Los Angeles, Calif. Filed Nov. 8, 1920. Serial No. [illegible]. 2 Claims. (Cl. 70—128.)



2. In a motor vehicle the combination of a clutch lever and a pedal shaft slidable therein; and a [illegible] shaft adapted to lock said shaft to said lever when in an inoperative position, said lever and shaft having [illegible] parts whereby when in one position the operating circuit is open and in other position the operating circuit is closed.

1,399,515. ELECTRIC WATER-HEATER. Ransom L. Phelps, Wilmette, Ill. Filed Jan. 20, 1920. Serial No. 353,991. 13 Claims. (Cl. 219—41.)



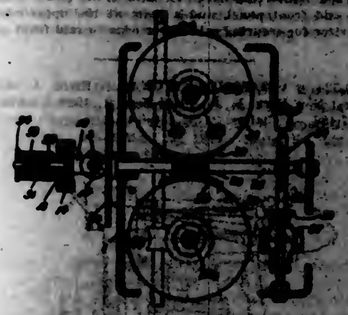
1. An electric water heater comprising [illegible] having two compartments of relatively [illegible] practically separate but communicating [illegible] through small specially arranged openings [illegible] heating device of comparatively low heating [illegible] in the larger of said compartments, and a [illegible] heating device of relatively high heating [illegible] smaller of said compartments, said [illegible] device being adapted to raise the [illegible] to a moderate degree and said [illegible] device being adapted to raise the [illegible] water to a higher degree as said water [illegible] said openings from said larger compartment [illegible] compartment.

1,399,516. [illegible] NACE DOORS. [illegible] Porter, administratrix, [illegible] county, Pa. Filed Jan. 10, 1921. Serial No. 436,181. 3 Claims. (Cl. 202—1.)



1. A false sill or [illegible] comprising a substantially [illegible] projecting head portion [illegible] reception of the [illegible]

1,399,517. [illegible] Grand Rapids, [illegible] 299,021. 6 Claims. [illegible]



3. A motor [illegible] mounted horizontal [illegible] on the shaft [illegible] about a vertical axis at each side of the shaft, a [illegible] gear on each drum [illegible] sides thereof, [illegible] normally turning [illegible] axes, means for [illegible] drums simultaneously [illegible] erner shaft [illegible] worm in [illegible] engages, a [illegible] maintain the [illegible] and mechanism [illegible] as described.

1,399,518. [illegible] William [illegible] 1921. [illegible]

A trap [illegible] chamber in [illegible] municating [illegible] including a [illegible] recess, a [illegible]

[illegible] thereof, and a retaining cap [illegible] the lug-supporting [illegible] withdrawal of the [illegible]



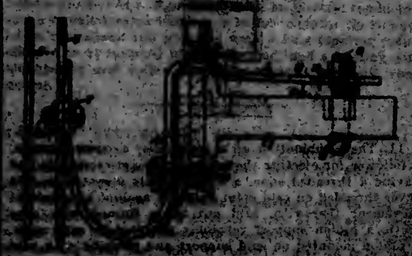
said cap being [illegible] substantially [illegible] fits free and will project [illegible] when in registration with said recess.

1,399,519. CARBURETER-CONTROL MEANS FOR GAS-ENGINES. Thomas Rowles, Kearny, N. J. Filed [illegible], 1920. Serial No. [illegible]. 2 Claims. (Cl. [illegible].)



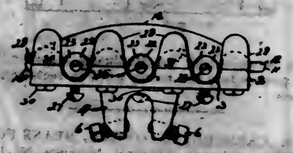
[illegible] to [illegible] to close the valve, a [illegible] to [illegible] to open the valve.

1,399,520. SUPPORT FOR [illegible] BUMPERS. John [illegible], Pennsylvania, assignor to American Chain Company, Inc., [illegible] of New York. Filed Oct. 8, 1921. Serial No. [illegible]. 6 Claims. (Cl. 293—63.)



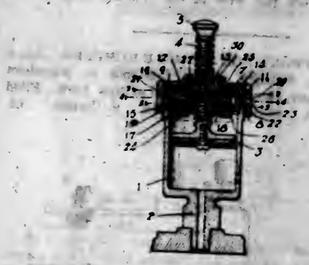
having a shank adapted to extend through an aperture of said transverse portion and means for drawing said transverse portion on said shank into abutment with said nose.

1,399,521. THREAD AND YARN FRICTION-GUIDE. JOHN ROGERS, Philadelphia, Pa. Filed Jan. 14, 1921. Serial No. 437,146. 2 Claims. (Cl. 242—154.)



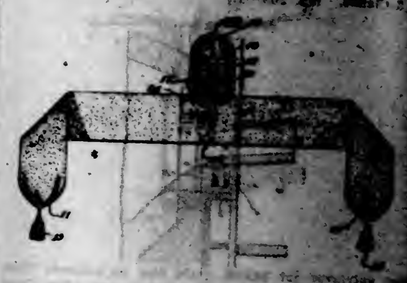
1. In a device of the character stated, a base provided with means for attachment to a suitable support and having lateral recesses arcuate in cross section, vitreous guide blocks mounted on said base on each side of said recesses, said guide blocks having transverse guide grooves intermediate their ends and having their upper surfaces inclined in opposite directions from said guide grooves, ears formed with the base and projecting therefrom, one of said ears having a cavity and the other a chamber therein, spaced lugs formed with the ear provided with the chamber and projecting into said chamber, a pintle rod passing through said ears, a head on each end of said pintle rod and adapted to engage the lugs on one of the ears, a nut on the opposite end of said pintle rod, a spring within the cavity of one of said ears and engaging said nut to normally force the head of the pintle rod into engagement with the aforementioned lugs, a finger supporting plate journaled on said pintle rod, a tension spring coiled about said pintle rod and having one end connected with said plate and with said rod, and a plurality of fingers including non metallic portions carried by said plate and positioned to pass between the guide blocks and enter the lateral recesses.

1,399,522. AUTOMATIC FORCE-FEED LUBRICATOR. AUGUST RUSS, Belleville, N. J. Filed Apr. 30, 1920. Serial No. 377,806. 11 Claims. (Cl. 184—45.)



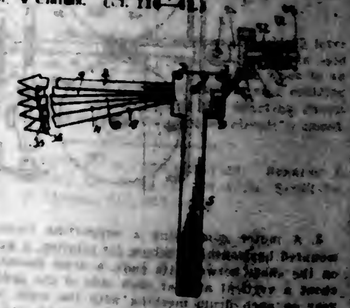
11. The combination of a receptacle, a cover thereon, a follower for ejecting the contents of said receptacle and having a threaded stem, a nut revolubly mounted in said cover threaded on said stem and held against longitudinal movement therewith, said nut being formed with gear teeth, a pinion support revolubly mounted in said cover, a pinion mounted on said support and meshing with said gear teeth, a gear revoluble in said cover and meshing with said pinion, a spring having one end connected to said cover and the other end connected to said gear to rotate the same, relative rotation of said cover and said pinion support in one direction winding said spring, and means for preventing relative rotation of said cover and said pinion support in the opposite direction.

1,399,523. COMBINED [illegible] Rahlin, New York, N. Y. [illegible] 407,471. 2 Claims. (Cl. [illegible]—154.)



1. In a combined hood and cowl, a [illegible] from a substantially rectangular [illegible] extending from said [illegible] middle portion and adapted to be [illegible] at the back of the neck, said hood [illegible] front panel, a rear panel and [illegible] top edges of said panels for [illegible] a seam about which said hood [illegible] connecting said hood and [illegible] upturned reinforcing visor on said front panel [illegible] with said front panel, and a seam on the upper edge of said visor for securing said upper edge to [illegible]

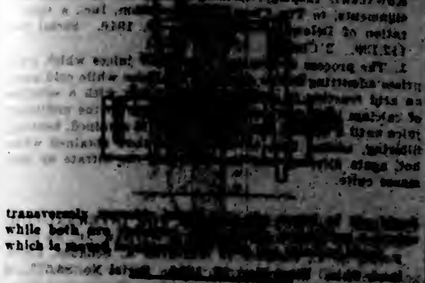
1,399,524. AUTOMOBILE-SIGNAL. [illegible] Samuel, West New York, N. J. Filed Sept. 2, 1920. Serial No. 407,486. 4 Claims. (Cl. 116—[illegible])



3. A signal device of the class [illegible] casing, a plurality of signal blades [illegible] manually controlled means for [illegible] blades to project it into signalling [illegible] latter blade for engaging the other [illegible] several blades to be projected in the [illegible] pliable means connecting the outer [illegible] blades for the purpose set forth.

1,399,525. PROCESS AND MACHINE [illegible] CUTTERS. ARTHUR G. SCHMAL [illegible] June 28, 1919. Serial No. [illegible] 80—5.1.)

2. A machine for forming [illegible] consists of three knurls mounted [illegible] the knurls being movable transversely [illegible]



transversely [illegible] while both are [illegible] which is mounted [illegible]

1,399,526. PROCESS AND [illegible] SULFURIC ACID TOWERS CHAMBERS AND TOWERS. THEODOR [illegible] KLENCKE, Frankfort-on-the-Main, [illegible] to Ed. Greutert & [illegible] 13, 1920. Serial No. [illegible]

1. A process [illegible] the customary [illegible] ing the bringing [illegible] acid in sulfuric [illegible] containing [illegible] mixing devices, [illegible] that at no point [illegible] of the denitration [illegible]

1,399,527. [illegible] SMITH, [illegible] chisery, Camden, [illegible] New Jersey. [illegible] 20 Claims. (Cl. [illegible])

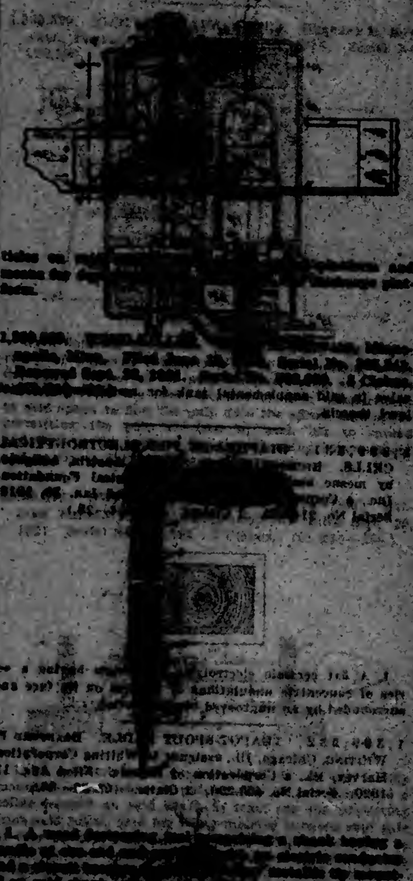


2. A button [illegible] means for [illegible] derlying material, [illegible] tacking [illegible] rerial, [illegible] tion above [illegible] work to [illegible] with the [illegible]

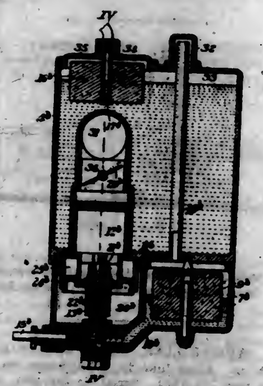
6. A button [illegible] mechanism for [illegible] and means for [illegible] register with the [illegible]

1,399,528. [illegible] Harlan, Ipswich, [illegible] 6 Claims. (Cl. [illegible])

1. In a [illegible] a receiving [illegible] jecting [illegible]

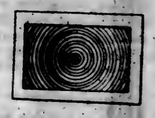


create substantially equal degrees of suction in said float chamber and said supplemental tank, and a float controlled



valve in said supplemental tank for restricting the fuel level therein.

1,399,531. DIAPHRAGM FOR ELECTROLYTICAL CELLS. RICHARD WALTER, Villach, Austria, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Jan. 30, 1918. Serial No. 214,484. 2 Claims. (Cl. 214—28.)



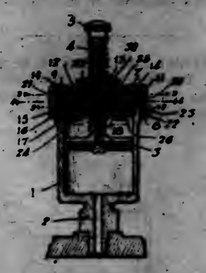
1. A flat ceramic electrolytic diaphragm having a series of concentric undulations or grooves on its face and surrounded by an ungrooved border portion.

1,399,532. TEAPOT-SPOUT LADLE. BRADFORD H. WHITING, Chicago, Ill., assignor to Whiting Corporation, Harvey, Ill., a Corporation of Illinois. Filed Aug. 13, 1920. Serial No. 403,286. 1 Claim. (Cl. 22—83.)



[illegible] on each side of said [illegible] and [illegible] intermediate their [illegible] ears fitted in opposite directions from said guide gudgeon, ears formed with the base and projecting therefrom, one of said ears having a cavity and the other a chamber therein, spaced lugs formed with the ear provided with the chamber and projecting into said chamber, a pintle rod passing through said ears, a head on each end of said pintle rod and adapted to engage the lugs on one of the ears, a nut on the opposite end of said pintle rod, a spring within the cavity of one of said ears and engaging said nut to normally force the head of the pintle rod into engagement with the aforementioned lugs, a finger supporting plate journaled on said pintle rod, a tension spring coiled about said pintle rod and having one end connected with said plate and with said rod, and a plurality of fingers including non metallic portions carried by said plate and positioned to pass between the guide blocks and enter the lateral recesses.

1,399,822. AUTOMATIC FORCE-FEED LUBRICATOR. AUGUST RUSS, Belleville, N. J. Filed Apr. 30, 1920. Serial No. 377,866. 17 Claims. (Cl. 184—36.)

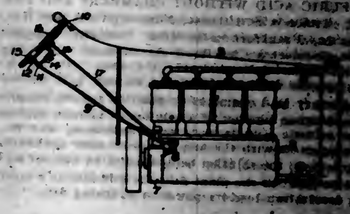


11. The combination of a receptacle, a cover thereon, a follower for ejecting the contents of said receptacle and having a threaded stem, a nut revolubly mounted in said cover threaded on said stem and held against longitudinal movement therewith, said nut being formed with gear teeth, a pinion support revolubly mounted in said cover, a pinion mounted on said support and meshing with said gear teeth, a gear revolubly in said cover and meshing with said pinion, a spring having one end connected to said cover and the other end connected to said gear to rotate the same, relative rotation of said cover and said pinion support in one direction winding said spring, and means for preventing relative rotation of said cover and said pinion support in the opposite direction.

1,399,523. PROCESSES OF [illegible] FURATING THE JUICES [illegible] MANUFACTURE OF SUGAR. [illegible], and KOWALSKI, Leipzig, Germany, [illegible], by mesne assignments, to The Chemical [illegible] ration of Delaware. Filed [illegible] 112,139. 2 Claims. (Cl. [illegible])

1. The process of treating raw [illegible] juices which [illegible] prises admitting sulfur dioxid to the juice while cold [illegible] an acid reaction is obtained, [illegible] of calcium hydroxid, [illegible] juice until a decided alkaline reaction is [illegible] filtering, adding lime to the [illegible] hot, again filtering, and then [illegible] masse cuite.

1,399,534. SAFETY-INDICATOR FOR [illegible] BUSTION ENGINES. [illegible], Fortis, N. Y., assignor to [illegible] land, Ohio. Filed Mar. 25, 1916. [illegible] Claims. (Cl. 184—6.)



1. A device of the character described, [illegible] combination, an internal combustion [illegible] system therefor, including a [illegible] fluid pressure, a pipe connection [illegible] said gage, a thermometer [illegible] separate casing for said thermometer, a pipe [illegible] said connection to said casing, a valve in [illegible] a return pipe leading from said casing [illegible] substantially as described.

1,399,535. PROCESS OF MAKING [illegible] DUCING BLOOD-PRESSURE. [illegible] lottenburg, near Berlin, [illegible] signments, to The Chemical [illegible] tion of Delaware. Filed [illegible] 845,325. 7 Claims. (Cl. [illegible])

5. The process of making [illegible] pressure which comprises mixing [illegible] with normal paraoxyproxin, [illegible] about 12 hours, separating the [illegible] from the liquid medium, crushing the [illegible] incorporating said separated [illegible]

7. The process of making means for [illegible] sure which comprises mixing [illegible]

2. In a [illegible] hood and scarf, a scarf member formed from a substantially homogeneous blank, a hood member extending from said scarf member substantially at the middle portion and adapted to be suspended therefrom at the back of the neck, said hood member comprising a front panel, a rear panel and a seam at the side and top edges of said panels for securing said panels together, a seam about which said hood member is adapted to fold connecting said hood and scarf members together, an upturned reinforcing visor on said front panel integral with said front panel, and a seam at the upper edge of said visor for securing said upper edge to said front panel.

1,399,524. AUTOMOBILE-SIGNAL. EMIL J. SANER, West New York, N. J. Filed Sept. 1, 1920. Serial No. 407,486. 4 Claims. (Cl. 116—[illegible])



3. A signal device of the class described comprising a casing, a plurality of signal blades pivoted in said casing, manually controlled means for actuating one of said blades to project it into signaling position, means on said latter blade for engaging the other blades to cause the several blades to be projected in fan shape formation, and pliable means connecting the outer free ends of said blades for the purpose set forth.

1,399,525. PROCESS AND MACHINE FOR FORMING CUTTERS. ARTHUR G. SCHAAB, Detroit, Mich. Filed June 26, 1919. Serial No. 306,766. 2 Claims. (Cl. 90—5.1.)

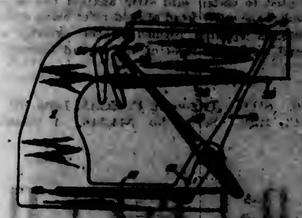
2. A machine for forming teeth on cutter blanks which consists of three knurls mounted on parallel axes, one of the knurls being movable transversely toward the others,

reverse direction to [illegible] rotation of said [illegible] said clutch during the [illegible]



vent rotation of the entire driving means for preventing accidental coupling of said clutch when uncoupled and said driving means is actuated, and means for holding said device against movement.

1,399,527. TOY, [illegible], Cincinnati, Ohio, assignor of one-half to [illegible], Norwood, Hamilton County, Ohio. Filed May 20, 1920. Serial No. [illegible]. 6 Claims. (Cl. 124—14.)



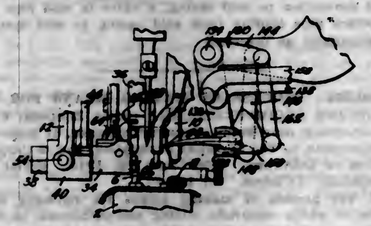
1. In a toy, the [illegible] device: of a projectile [illegible] and having the [illegible] and [illegible] being provided [illegible] said projectile.

1,399,528. LOCK [illegible], Mich., [illegible] Rapids, Mich. [illegible] 13, 1920. Serial No. [illegible]

1,399,526. PROCESS FOR THE PRODUCTION OF SULFURIC ACID WITHOUT CHAMBERS AND TOWERS. THEODOR SCHMIEDEL, Nürnberg-Doos, and HANS KLENCKE, Frankfort-on-the-Main, Germany, assignors to Ed. Greulert & Cie., Basel, Switzerland. Filed Aug. 13, 1920. Serial No. 403,417. 6 Claims. (Cl. 23—1.)

1. A process for manufacturing sulfuric acid without the customary lead chambers or reaction towers, comprising the bringing together of a solution of nitrosyl sulfuric acid in sulfuric acid in very fine subdivision, and SO_2 containing gases with the help of one or more mechanical mixing devices, the solution being used in an amount such that at no point in the plant does the solution, as a result of the denitration lose its power of oxidising SO_2.

1,399,527. BUTTON-SEWING MACHINE. WILLARD A. SMITH, Melrose, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 30, 1918. Serial No. 225,618. 20 Claims. (Cl. 112—109.)



2. A button attaching machine having, in combination, means for supporting a button-holed material and an underlying material, sewing mechanism for passing button attaching loops through a buttonhole and the underlying material, mechanism for feeding buttons into attaching position above a buttonhole, and mechanism for spacing the work to bring the buttonholes successively into register with the sewing mechanism.

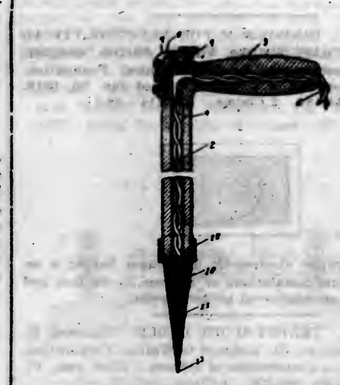
6. A button attaching machine, having in combination, mechanism for attaching a button through a buttonhole, and means for engaging a buttonhole and feeding it into register with the button attaching mechanism.

1,399,528. PILING-MACHINE. FRANK SOMMERS, Indiana Harbor, Ind. Filed Dec. 15, 1920. Serial No. 431,005. 6 Claims. (Cl. 214—6.)

1. In a device of the class described, the combination of a receiving platform, having arms spaced apart and projecting from one side thereof, a discharge platform having

form.

1,399,529. WEED-KILLER. JAMES E. STEWART, Minneapolis, Minn. Filed June 19, 1919, Serial No. 305,841. Renewed Sept. 23, 1921. Serial No. 502,600. 3 Claims. (Cl. 219—31.)

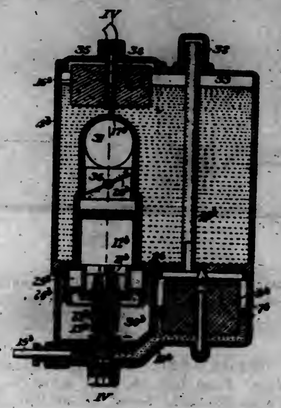


1. A weed destroying tool comprising a shank having a handle at one end and provided with an electric conductor and a circuit breaker therefor, a hollow metallic tip mounted on said shank and provided with a long tapering point adapted to be inserted into the ground, and a heating coil mounted in said hollow tip and connected with said conductor.

1,399,530. FUEL-SUPPLY SYSTEM FOR INTERNAL-COMBUSTION ENGINES. REID T. STEWART, Pittsburgh, Pa. Filed Dec. 28, 1915. Serial No. 69,005. 7 Claims. (Cl. 158—36.)

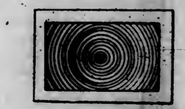
1. In combination, a carbureting passage-way having an air inlet at one end and a mixture outlet at the other end, a fuel inlet to said carbureting passage-way, a float chamber feeding said fuel inlet, a throttle valve in said mixture outlet, a supplemental fuel tank adapted to draw fuel from a source of supply, said supplemental tank being arranged at a higher level than said float chamber to feed thereto, suction means communicating with said carbureting passageway at a point anterior to said throttle valve and extending to said float chamber and to said supplemental fuel tank, said suction means being operative to

create substantially equal degrees of suction in said float chamber and said supplemental tank, and a float controlled



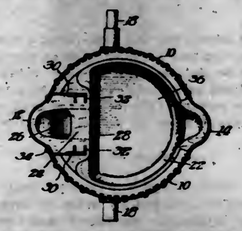
valve in said supplemental tank for restricting the fuel level therein.

1,399,531. DIAPHRAGM FOR ELECTROLYTICAL CELLS. Richard Walter, Villach, Austria, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Jan. 30, 1918. Serial No. 214,484. 2 Claims. (Cl. 214—28.)



1. A flat ceramic electrolytic diaphragm having a series of concentric undulations or grooves on its face and surrounded by an ungrooved border portion.

1,399,532. TEAPOT-SPOUT LADLE. Bradford H. Whiting, Chicago, Ill., assignor to Whiting Corporation, Harvey, Ill., a Corporation of Illinois. Filed Aug. 13, 1920. Serial No. 403,296. 1 Claim. (Cl. 22—83.)

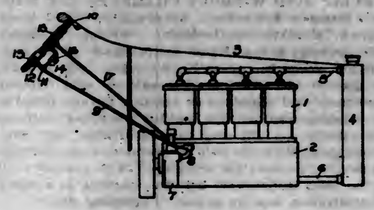


A molten metal retaining ladle consisting of a cup shaped metallic receptacle lined with molten metal resisting material, the same having a vertically positioned interior partition wall located adjacent to one side of the ladle and perforated from top to bottom inside the wall to form a spout leading from the bottom of the ladle to an external edge of the ladle and means embedded in the fire resisting material, adjacent to said spout for reinforcing said material and holding it in place, the reinforcing means comprising metal plates, secured to the ladle wall, and provided with surface projections engaging and holding the resisting material, for the purposes set forth.

1,399,533. PROCESSES OF SYSTEMATICALLY SULFURATING THE JUICES OBTAINED DURING THE MANUFACTURE OF SUGAR. Mieczyslaw v. Wirbuss-Kowalski, Leipzig, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed July 29, 1916. Serial No. 112,139. 2 Claims. (Cl. 127—17.)

1. The process of treating raw sugar juices which comprises admitting sulfur dioxid to the juice while cold until an acid reaction is obtained, neutralizing with a solution of calcium hydroxid, adding milk of lime to the unfiltered juice until a decided alkaline reaction is obtained, heating, filtering, adding lime to the filtrate thus obtained while hot, again filtering, and then working the filtrate up into masse cuite.

1,399,534. SAFETY-INDICATOR FOR INTERNAL-COMBUSTION ENGINES. Gideon S. Witham, Jr., Au Sable Forks, N. Y., assignor to Gustavus A. Schanze, Cleveland, Ohio. Filed Mar. 25, 1916. Serial No. 86,577. 2 Claims. (Cl. 184—6.)



1. A device of the character described, comprising in combination, an internal combustion engine, a lubricating system therefor, including a pump, a gage for indicating fluid pressure, a pipe connection between said system and said gage, a thermometer mounted adjacent said gage, a separate casing for said thermometer, a pipe leading from said connection to said casing, a valve in said pipe and a return pipe leading from said casing to said system; substantially as described.

1,399,535. PROCESS OF MAKING MEANS FOR REDUCING BLOOD-PRESSURE. Georg Eublers, Charlottenburg, near Berlin, Germany, assignor, by mesne assignments, to The Chemical Feundation, Inc., a Corporation of Delaware. Filed June 15, 1914. Serial No. 845,325. 7 Claims. (Cl. 167—7.)

5. The process of making means for reducing blood pressure which comprises mixing non-pathogenic bacteria with normal amboceptors, refrigerating said mixture for about 12 hours, separating the bacteria and amboceptors from the liquid medium, washing the separated mass and incorporating said separated mass with gelatin.

7. The process of making means for reducing blood pressure which comprises mixing 2 mg. bacterium coli with normal amboceptors, refrigerating said mixture for about 12 hours, separating the bacteria and amboceptors from the liquid medium, washing the separated mass and incorporating said separated mass with 10 c. c. of 10% gelatin, and finally cooling.

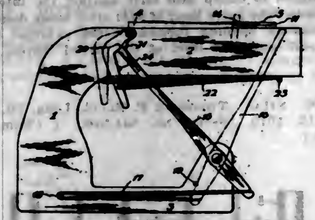
1,399,536. FISHING-REEL. Walter L. Adams, Akron, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 15, 1916, Serial No. 115,068. Renewed Oct. 1, 1920. Serial No. 414,128. 10 Claims. (Cl. 242—84.5.)

4. A fishing reel, comprising a frame, a spool therein, driving means for said spool including a clutch and arranged when operated in one direction to couple said clutch and drive said spool and when operated in the reverse direction to uncouple said clutch and permit free rotation of said spool, a device continuously effective upon said clutch during its entire rotation and tending to pre-



vent rotation of the entire driving means for preventing accidental coupling of said clutch when uncoupled until said driving means is actuated, and means for holding said device against movement.

1,399,537. TOY. Jasomus Z. Bayliss, Cleveland, Ohio, assignor of one-half to Arthur E. Merkel, Cleveland, Ohio. Filed May 20, 1919. Serial No. 298,383. 7 Claims. (Cl. 124—14.)



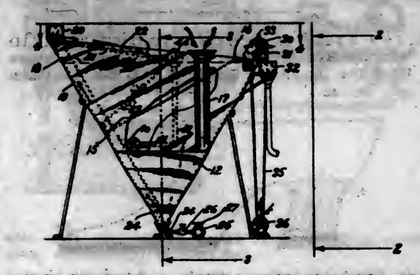
1. In a toy, the combination with a projecting device; of a projectile adapted to be mounted on the latter and having the general contour of a boomerang; said device being provided with a guide fitting a concave portion of said projectile.

1,399,538. LOCK SET. Harold Blee, Grand Rapids, Mich., assignor to National Brass Company, Grand Rapids, Mich., a Corporation of Michigan. Filed Jan. 13, 1919. Serial No. 270,936. 1 Claim. (Cl. 70—14.)



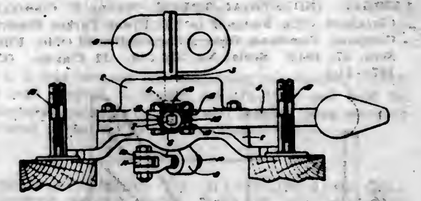
In a device of the character described, an elongated housing, an operating member provided with key receiving recesses in each end thereof rotatably mounted transversely of and within the housing, a locking bolt formed of sheet metal located lengthwise of the housing and extending at its rear end under the operating member and formed with two upstanding ears at its rear end, an arm projecting from the operating member, a link formed into substantially channel form from sheet metal pivotally connected at its front end to the arm and at its rear end passing downwardly between the ears of the bolt, a pivot connecting the rear end of the link and said ears, and spring means disposed between the link and rear end of the bolt tending to force the front end of the link toward the bolt, substantially as described.

1,399,539. FLOTATION APPARATUS. Herbert H. Bonnell, Denver, Colo. Filed Apr. 3, 1918. Serial No. 226,386. 6 Claims. (Cl. 83—85.)



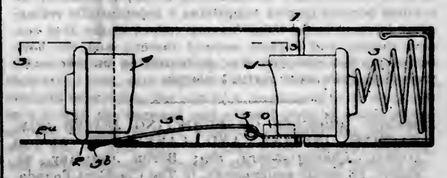
1. In flotation apparatus, the combination with a plurality of adjacent compartments, of an aerating apron extending across all of said compartments, and a lift extending from the lower portion of each compartment to said apron to flow the pulp onto the apron, said apron permitting the pulp elevated by each lift to spread and flow partly back to the corresponding compartment and partly to the adjacent compartment.

1,399,540. SWITCH-OPERATING MECHANISM. William Milton Brown, Johnstown, Pa. Filed Sept. 29, 1921. Serial No. 504,184. 6 Claims. (Cl. 246—289.)



1. In a switch stand a revoluble shaft, an arm loosely mounted on said shaft, a pair of ears on said arm, and a collar secured on said shaft, at least one lug projecting from said collar, said lug being inserted between said pair of ears on said arm, said lug being adapted to break to allow the free operation of said switch stand when the switch is accidentally trailed.

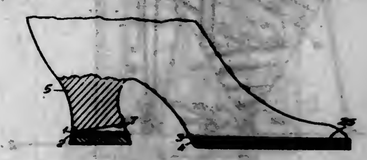
1,399,541. CONTAINER FOR MUSIC-ROLLS AND THE LIKE. Charles S. Burton, Oak Park, Ill. Filed Sept. 15, 1919. Serial No. 323,829. 7 Claims. (Cl. 206—59.)



1. A container comprising a tubular box having an open end, and a closure hinged at one edge of the open end for swinging from closed to open position; a spring in the rear closed end of the box for ejecting the con-

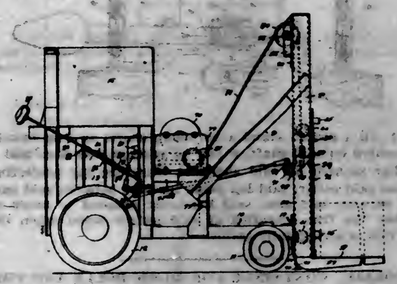
tends through the open end, and a hinged latch carried by the box extending in front of the closure for holding it at closed position and which is accessible for swinging it away from closure-holding position; whereby when the latch is thus moved, the spring thrusts the contents against the closure and opens the same, protruding the contents from the box, the latch being mounted for movement past the hinged edge of the closure for releasing the latter.

1,399,542. DETACHABLE FOOTWEAR-TREAD. WILLIAM HENRY CHESSEY, Montreal, Quebec, Canada. Filed Oct. 9, 1920. Serial No. 415,800. 1 Claim. (Cl. 36—42.)



In detachable footwear treads, a detachable member formed of a metal plate and the tread proper, said metal plate being formed with barbs projecting into said tread proper and hooks, a permanent member comprising an upper portion and a plate, both being provided with registering holes, said latter plate having barbs projecting into the upper portion, said hooks of the first named plate being constructed and arranged to pass into said holes and engage the second plate, and a locking tongue having an offset to enter one of said holes and in the rear of a hook to lock the same and thereby lock the plates.

1,399,543. INDUSTRIAL TRUCK. CLYDE E. COCHRAN, Cleveland, Ohio, assignor to The Elwell-Parker Electric Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 27, 1919. Serial No. 326,789. 11 Claims. (Cl. 187—11.)



5. In combination with an automobile truck having load elevating means associated therewith, a load-receiving member comprising a substantially L-shaped member, the vertical portion thereof comprising a substantially rectangular channel beam frame having rollers at the four corners thereof and a plate secured thereto, and the horizontal portion comprising a plate resting on two arms projecting from said vertical portion.

1,399,544. PROCESS OF PURIFYING JUICES CONTAINING INULINE AND LAEVULOSE. ARNOLD DANIEL, Charlottenburg, near Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Apr. 10, 1918. Serial No. 227,816. 4 Claims. (Cl. 127—23.)

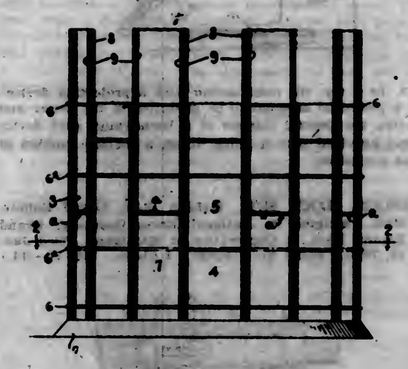
1. The process of obtaining inuline from juices which comprises heating the juice for about ½ to 1½ hours at a temperature of about 60° C., adding an alkali belonging to the alkali metal group, during the heating and until an excess is shown, filtering and evaporating to crystallization.

1,399,545. FLASHLIGHT. RICHARD MAX EATON, Niagara Falls, N. Y. Filed Mar. 22, 1920. Serial No. 367,775. 2 Claims. (Cl. 240—8.5.)



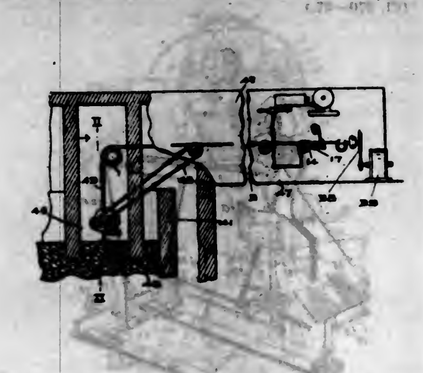
1. In a device of the class described the combination with a hollow cylinder and a threaded ferrule at one end thereof, said ferrule having a flanged portion covering the material of the cylinder, of a contact strip in said cylinder, said strip having an angular outturned end set in a recess in the wall of the cylinder in engagement with the flange of the ferrule, and a tubular rivet having an inner head adapted to clamp said strip against the interior of said cylinder, the outer head of said rivet being disposed in a countersunk opening formed in the exterior of said ferrule and below the level of the thread thereof.

1,399,546. SILO. THEODORE F. ELLIS, Lena, Ill. Filed Dec. 13, 1919. Serial No. 344,546. 1 Claim. (Cl. 72—6.)



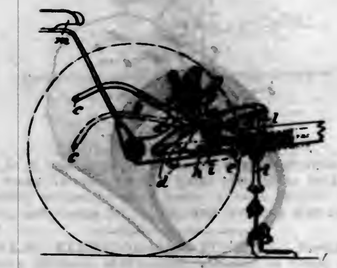
A silo comprising blocks rectangular in side elevation and arranged edge to edge around the silo structure, each of the blocks being provided at one vertical edge with a groove and at its opposite vertical edge with a tongue, the tongue of one block being received in the groove of the adjacent block, each block being provided at its outer side and at its vertical edges with outstanding flanges which extend from end to end of the block, said flanges being provided with outer edge faces, the outer edge faces of the flanges of the adjacent blocks being angularly disposed with relation to each other and substantially radially disposed with relation to the silo structure and a filling of cement material closing the spaces between the outer edge faces of the flanges of the adjacent blocks.

1,399,547. SHEET-GLASS DRAWING APPARATUS. BENNET C. HUMES, Toledo, Ohio. Filed Aug. 1, 1919. Serial No. 314,626. 8 Claims. (Cl. 49—17.)



6. A continuous draw sheet glass apparatus comprising a bending roll, and means in the roll for raising the temperature of the roll.

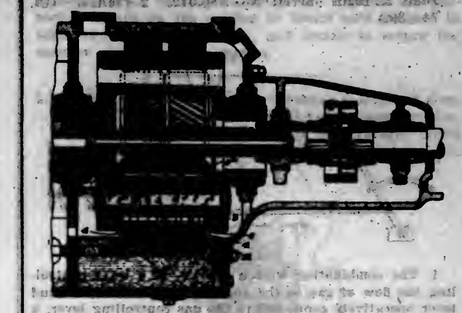
1,399,548. MOWER. JOHANN GEORG FAHR, Gottmadingen, Germany, assignor to Maschinenfabrik Fahr A.-G., Gottmadingen, Germany. Filed Dec. 24, 1915. Serial No. 68,579. 1 Claim. (Cl. 56—74.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



A mower including a frame, a cutter secured thereto, a treadle attached to said frame provided with a rearwardly extending arm, a spring having one end connected to the rear end of said arm and its other end connected to the front of the frame, and transmission means extending between the treadle and cutter, whereby when the treadle is operated the transmission means operate to lift the cutter bars into vertical position in a single step, the treadle being at all times within easy reach of the foot of the operator.

1,399,549. RESILIENT GEAR. GUSTAVE FAST, Mount Washington, Md., assignor of twenty-five per cent. to Curran W. Harvey and ten per cent. to F. Barton Harvey. Filed Mar. 11, 1918. Serial No. 221,763. Renewed May 5, 1921. Serial No. 467,125. 14 Claims. (Cl. 74—29.)

1. A power transmission gear consisting of a helical strip yieldable in the circumferential direction of its convolutions, the ends of the strip being relatively movable, said convolutions having teeth extending across them, substantially as described.

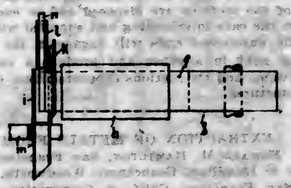


1,399,550. MANUFACTURE OF BOOK-FILES FOR CARDS AND THE LIKE. ALFRED GILBERT, Birmingham, England. Filed Dec. 24, 1918. Serial No. 268,186. 3 Claims. (Cl. 129—20.)



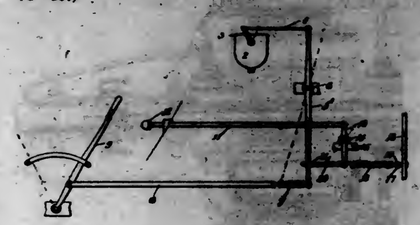
1. A leaf for book files comprising card-holding strands of cord adapted to receive beneath them and hold the corners of cards to the leaf, said strands being mutually secured to the leaf by lock-stitching.

1,399,551. METHOD OF MANUFACTURING CIGARETTE-TUBES WITH HOLLOW MOUTHPIECES. MAX CLEMENS GRAHL, Dresden-Löbtau, Germany. Filed July 16, 1915. Serial No. 40,274. 2 Claims. (Cl. 93—77.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



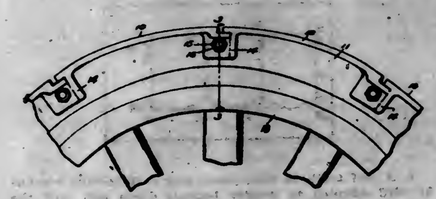
1. A method of making and inserting coils of paper for cigarette tubes, said cigarette tubes having seams, which consists in winding the end of a continuous strip of paper into a coil, the forward end of said strip of paper being gripped during the said winding, releasing the said forward end of said strip of paper after the said winding has been completed, whereby the said coil is free to expand, and then severing the rear end of said coil from said strip of paper, and then introducing said coil of paper into said cigarette, the outer edge of the said coil being caused to register with the seam of the said cigarette.

1,399,552. TRACTOR SAFETY DEVICE. Auguste Guignard and Fred Rosiere, Hood River, Oreg. Filed June 2, 1920. Serial No. 386,012. 2 Claims. (Cl. 74—89.)



1. The combination with a tractor, of a lever controlling the flow of gas to the engine of the tractor, a hand lever operatively connected to the gas controlling lever, a spring held member normally engaging the gas controlling lever to prevent its operation by the hand lever, and a foot operated device for holding said member in inoperative position.

1,399,553. TIRE-PROTECTOR. Truman Wallace Hamill, Merced, Calif. Filed Feb. 26, 1921. Serial No. 448,025. 1 Claim. (Cl. 152—3.)

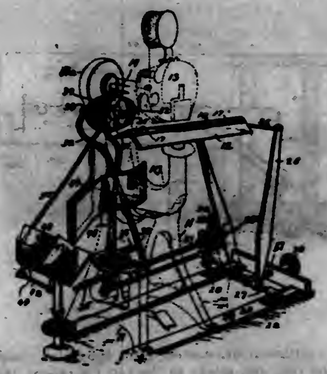


A tire armor comprising a plurality of sections curved longitudinally to correspond to the curvature of the tire and each depressed at one end to form a seat sunken below the outer line of the section, perforated ears depending below the seat portion and spaced from the side edges of the section and perforated ears depending below the section at the other end and extending in advance of the same, the outer faces of the last mentioned ears being flush with the side edges of the sections, whereby when a plurality of the sections are disposed end to end around a tire with the ears interlapping and supplied with pintle devices, the unrecessed ends will engage in the seats of the section next in advance and produce a continuous line of sections, and the sections supported from deflection at their junctures.

1,399,554. EXTRACTION OF METALS FROM THEIR ORES. Edward M. Hamilton, San Francisco, Calif., assignor to Hamilton, Beauchamp, Woodworth, Incorporated, San Francisco, Calif., a Corporation of California. Original application filed Mar. 14, 1917, Serial No. 154,848. Divided and this application filed June 7, 1917. Serial No. 173,306. 7 Claims. (Cl. 75—18.)

1. The process of recovering molybdenum from its ores and concentrates which comprises reducing the ore or concentrate to a suitable condition of fineness for further chemical treatment, mixing the pulverized material with water and with a non-volatile alkali-metal compound the aqueous solution of which is alkaline to form a pulp, heating the pulp to convert the molybdenum into a soluble compound, filtering, and recovering the values from the filtrate.

1,399,555. AUTOMATIC FEEDER FOR BOOK-STITCHING MACHINES. William A. Hetrick, Lancaster, Pa. Filed Jan. 9, 1919. Serial No. 270,965. 3 Claims. (Cl. 270—37.)



1. In a book stitching machine, the combination of a work table and a plurality of alternately acting work feeders each having an idle and a feed motion and the feed motion of one occurring during the idle motion of the other.

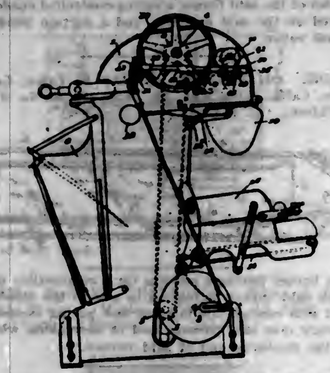
1,399,556. PNEUMATIC TIRE. Louis A. Hill, Washington, D. C. Filed Sept. 6, 1921. Serial No. 496,674. 3 Claims. (Cl. 152—16.)



3. A pneumatic tire casing having a series of inner fabric bands, another circumferential fabric band embedded in the tread rubber at a distance from said inner bands drawn taut to exert a restrictive action against the expansive tendency exerted by the inner tube, and an annular series of metallic anti-slipping devices clamped between said bands when the tire is inflated, for the purpose set forth, said metallic anti-slipping devices being covered by a coating of hard rubber prior to insertion in the tire.

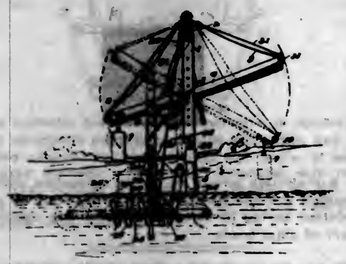
1,399,557. CARD-FEEDER. Joseph B. Howe, Worcester, Mass., assignor to George S. Harwood & Son, Boston, Mass., a Copartnership composed of Sydney Harwood and John H. Harwood. Filed Dec. 18, 1920. Serial No. 430,866. 12 Claims. (Cl. 19—7.)

9. In a machine of the class described, fiber elevating mechanism, an oscillating doffer, and means for actuating said elevating mechanism and said doffer comprising a clutch having disengagable elements and a member operable for disengaging said elements, said latter member being constructed and arranged to become operative



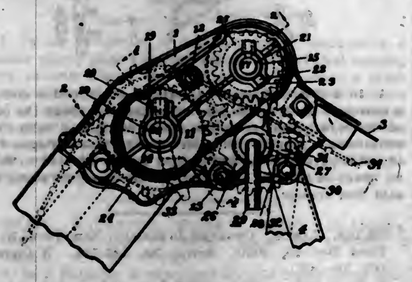
to disengage said elements only when said doffer occupies a predetermined position in its path of movement.

1,399,558. WATER-MOTOR. Olaf L. Howe, Seattle, Wash. Filed Jan. 9, 1919. Serial No. 270,283. 6 Claims. (Cl. 170—131.)



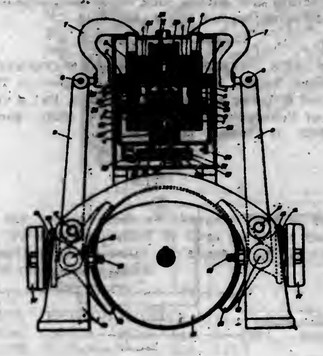
1. In a water motor, a frame, a support from which said frame is suspended, a beam pivoted on said frame, a cradle carried by said beam, a vane carrier on said cradle, and means for raising and lowering said cradle.

1,399,559. ELEVATOR-ROLL SUPPORT. Edwin Frederick Huddle, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Mar. 8, 1920. Serial No. 364,056. 2 Claims. (Cl. 56—185.)



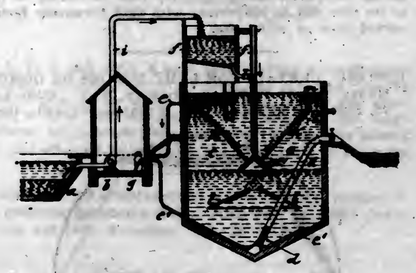
1. In a harvester and binder, the combination with the elevator frame, of elevator rolls having spindles, a casting on the frame, openings in said casting through which the rolls are capable of being inserted or withdrawn, a member having bearings in which the spindles are supported, means on the casting to locate said member in place to close said openings, and means to secure the member rigidly to the casting.

1,399,560. CUSHION-BRAKE. Frederick Hymans, Glen Ridge, N. J., assignor to Otis Elevator Company, Jersey City, N. J., a Corporation of New Jersey. Filed Nov. 27, 1917. Serial No. 204,151. 6 Claims. (Cl. 188—171.)



1. In combination, a brake, brake applying means, main cylinders, pistons movable therein to control the operation of the brake applying means for a gradual operation, an auxiliary cylinder of smaller bore than the said cylinders, and a piston movable therein to regulate the movement of the main pistons, and pipes connecting the main and auxiliary cylinders.

1,399,561. PROCESS OF TREATING SLUDGE. Karl Imhoff and Heinrich Blunk, Essen-on-the-Ruhr, Germany. Filed Apr. 19, 1913. Serial No. 762,260. 11 Claims. (Cl. 210—18.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. The process herein described of decomposing sludge, which consists in bringing decomposing sludge into intimate contact with fresh sludge.

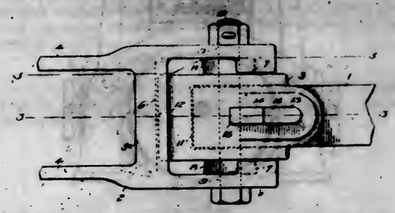
1,399,562. SETTLING-TANK FOR SEWAGE CLARIFICATION. Karl Imhoff, Essen-on-the-Ruhr, Germany. Filed Jan. 27, 1915. Serial No. 4,661. 5 Claims. (Cl. 210—18.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. In a sewage clarification plant, in combination, a funnel-shaped settling tank, a sludge-pit arranged below

the lowest point of said tank, an inlet and outlet at opposite points of the periphery of said tank and a hood arranged within said settling tank above the sludge-pit, said hood extending beyond the water level.

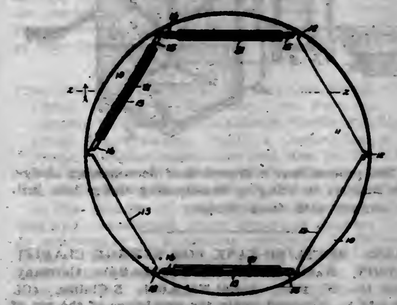


1,399,563. COUPLING AND YOKE CONNECTION. WILLIAM KELSO, Pittsburgh, Pa., assignor to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 4, 1920. Serial No. 386,532. 6 Claims. (Cl. 213—42.)



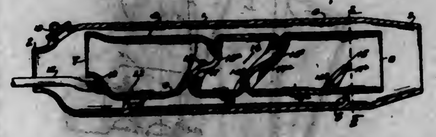
1. In a coupler and yoke connection, the combination with a coupler, having a stem provided with a key slot near its rear end, of a yoke provided at its forward end with oppositely disposed rearwardly facing curved bearing faces and having a forwardly facing curved face located rearwardly of said oppositely disposed curved faces and also having a side opening between said forwardly facing curved face and said rearwardly facing curved bearing faces, an intermediate member between said coupler and yoke and pivotally connected to the latter, and key means extending into said slot of the coupler stem for connecting said coupler and said intermediate member, said intermediate member being provided with oppositely disposed trunnions respectively engaging said rearwardly facing curved bearing faces of the yoke and being curved at its rear end to coöperate with said forwardly facing curved face of said yoke.

1,399,564. CURTAIN FOR LAMP SHADES OR DOMES. HENRY AUGUST F. KUNZE, Brooklyn, N. Y. Filed Apr. 28, 1921. Serial No. 466,085. 2 Claims. (Cl. 240—108.)



1. A curtain for lamp shades or domes, comprising a frame made of a piece of spring wire bent into polygonal shape, the corners of the frame alternately engaging the inner face of a lamp shade or frame to support the frame therein, brackets attached to and depending from one of the sides of the said frame, a spring-controlled shade roller mounted on the said brackets, and a curtain winding on the said roller.

1,399,565. OIL-BURNER. HAROLD S. LAMB, Los Angeles, Calif. Filed Apr. 20, 1920. Serial No. 375,359. 7 Claims. (Cl. 158—33.)



1. A burner having a passage for a combustible mixture through said burner increasing in size in the direction of flow of said combustible mixture and having inclined ribs projecting into said passage and of decreasing width toward the discharge end of said burner.

1,399,566. PROJECTION-SCREEN. ISAAC LASARUS, Berlin, Germany, assignor to Perbatino, O. Co. Pe. G. M. B. H., Berlin, Germany. Filed July 18, 1912. Serial No. 710,329. 7 Claims. (Cl. 88—24.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A projection screen for use in connection with cinematograph and similar exhibitions, comprising an opaque foundation having its image display surface composed of a layer of glass beads.

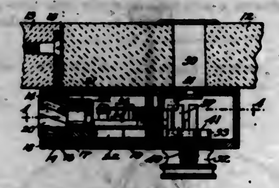
11,399,567. CINEMATOGRAPHIC APPARATUS. JOHANNES LEHMANN, Jena, Germany, assignor to The Firm of Carl Zeiss, Jena, Germany. Filed Apr. 22, 1913. Serial No. 762,982. 2 Claims. (Cl. 88—16.4.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a cinematographic apparatus an objective system, a source of light, a film adapted to travel through the path of the rays coming from the source of light, a color-filter containing a plurality of colors and rotatably disposed in the said path of rays and optical means adapted to form an image of the said color-filter in the plane, in which the said film travels.

1,399,568. LOCK. CHARLES LIBERMAN, New York, N. Y. Filed Dec. 28, 1920. Serial No. 433,711. 3 Claims. (Cl. 70—46.)

1. In a lock, a bolt mounted to slide and having a revolvable spirally fluted head, a casing provided with spaced bolt bearings for the bolt head to slide in and corresponding to the cross sectional area of the said bolt head, and a keeper adapted to pass between the said bearings and having an opening for the passage of the said bolt head.



1,399,569. BARREL-PROTECTOR. WILLIAM FRANCIS MEEK, Tampico, Mexico. Filed Oct. 19, 1920. Serial No. 417,950. 8 Claims. (Cl. 217—72.)



1. A protector for receptacles, including in combination with a receptacle comprising bulged side walls, and head attached adjacent the ends of said side walls, of means, of a fixed diameter within said receptacle, said means being longitudinally extensible to permit of the contacting of the same with the interior face of said receptacle upon being extended.

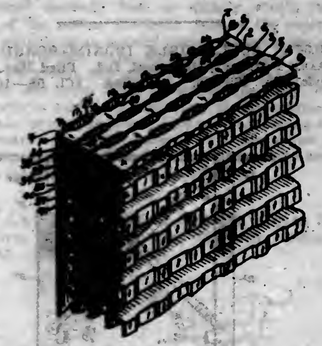
1,399,570. TRACTOR. EDWARD C. MYERS, Seattle, Wash. Filed July 6, 1920. Serial No. 394,336. 19 Claims. (Cl. 180—14.)



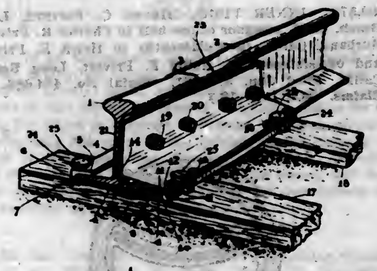
1. In an industrial or lumber tractor, comprising a tractor power plant and rear axle and differential housing with suitable wheels mounted on the rear axles, a truck frame supported by the rear axle and differential housing and extending forwardly and to the rear thereof, means for supporting the forward portion of said frame, means for supporting the front end of the tractor power plant from said frame, and load carrying means mounted on said rearwardly extending portion of the frame.

1,399,571. RADIATOR. FRANK A. NEVEU, Los Angeles, Calif. Filed Aug. 18, 1919. Serial No. 318,307. 2 Claims. (Cl. 257—130.)

1. In a radiator, a water and air cell construction comprising water cell members and air cell members arranged alternately, each water cell member comprising two pieces bent upon vertical lines and fitting together to form water tube portions, and the air cell members each comprising a spacing plate bent to form horizontal walls and vertical walls, the vertical walls at alternate sides of the horizontal walls being pressed to form seats for the water tube portions of the water cell members at the respective sides of the spacing plates.

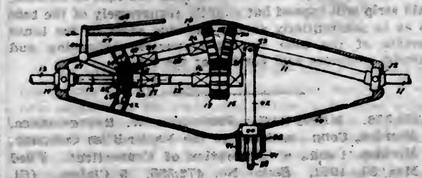


1,399,572. RAIL-CHAIR. CHARLES PASCAL, Montreal, Quebec, Canada. Filed Apr. 5, 1921. Serial No. 458,699. 2 Claims. (Cl. 238—210.)



1. In a rail chair a base plate having a longitudinal overlap, extending upwardly from one side and forming a rail base recess and a longitudinal rib on the other side, a filler bar between the rail base and the longitudinal rib, a brace plate having screw fasteners joining to said rib, and bolts joining the brace plate to the rails.

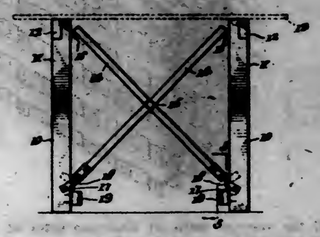
1,399,573. TRANSMISSION MECHANISM. ROBERT B. PERKINS, Oklahoma, Okla. Filed Dec. 17, 1920. Serial No. 431,451. 8 Claims. (Cl. 74—84.)



1. A transmission mechanism, comprising a follower shaft, a gear fixed to said shaft, a drive shaft having a

universal joint, a gear fixed to the drive shaft and meshing with and adapted for orbital travel around the first gear, and means for applying a retarding influence to the orbital travel of said second-named gear.

1,399,574. COLLAPSIBLE IRONING-BOARD STAND. FRANK PHILLIPS, Hammond, Ind. Filed Mar. 26, 1921. Serial No. 455,906. 4 Claims. (Cl. 68—10.)



1. A stand for ironing tables and the like, comprising a pair of standards, and a pair of braces carried one by each standard and adapted for detachable interlocking engagement with each other and each with one of the standards.

1,399,575. INNER TUBE. HENRY C. PRIVETT, Long Beach, Calif., assignor of one-half to Charles R. Privett, Burbank, Calif., three-sixteenths to Helen E. Privett and one-sixteenth to Hollis F. Privett, Long Beach, Calif. Filed Jan. 3, 1921. Serial No. 434,686. 3 Claims. (Cl. 152—13.)



1. An inner tube for tires formed of relatively soft stock and having a strip at the outer portion of the tread of relatively hard stock so that when the tube is inflated, said strip will expand but slightly transversely of the tube so as to substantially anchor the side edges of the inner portion of the tube against transverse expansion and thereby compress said portion of the tube.

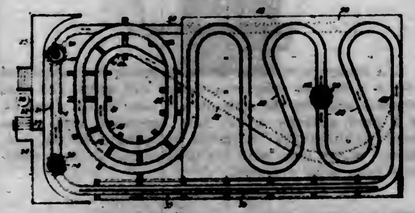
1,399,576. MESH-BAG. FREDERICK W. RETTENMEYER, Meriden, Conn., assignor to the Napier-Bliss Company, Meriden, Conn., a Corporation of Connecticut. Filed May 25, 1921. Serial No. 472,855. 5 Claims. (Cl. 150—34.)

4. A hand-bag comprising a flexible body portion secured to a frame adapted to allow access thereto, a grip comprising two sections hinged together and clasped to provide a closed receptacle, and a flexible connection between the



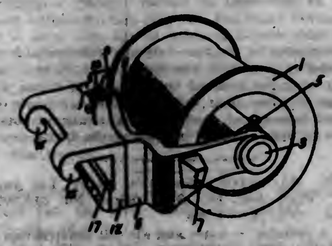
frame and the grip and secured to the grip at substantially the center of one of its sections.

1,399,577. PLEASURE-RAILWAY. HENRY E. RIEHL, Brooklyn, N. Y. Filed July 28, 1921. Serial No. 488,096. 7 Claims. (Cl. 104—64.)



1. In a pleasure railway a continuous track comprising a station section, an up-track inclined upwardly from one end of the station section, a down-track connected with the said up-track and formed of a series of compound curves, a vertical spiral section and a diagonal portion, and a home stretch leading from the said diagonal portion to the other end of the said station section.

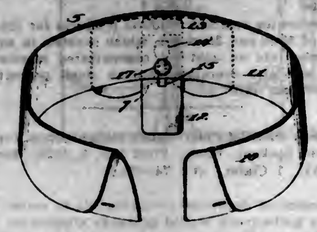
1,399,578. BELT-GUIDE. JOHN ROCKE, Pontiac, Ill., assignor, by mesne assignments, to Adolph Woehner, trustee, McLean county, Ill. Filed Oct. 8, 1919. Serial No. 328,800. 8 Claims. (Cl. 74—61.)



5. The combination with a power driven belt and pulley on a motor vehicle and a front axle, of a belt guide

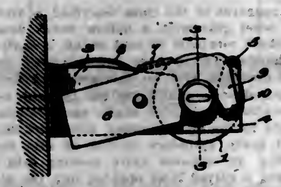
comprising a pulley wheel, a bracket member having arms projecting therefrom, said arms acting as a support for the belt wheel, and rearwardly extending hooked arms carrying over said axle and affording a detachable mounting therefor.

1,399,579. TIE-SLIP. CHARLES ROSIER, New York, N. Y. Filed June 28, 1920. Serial No. 391,893. 7 Claims. (Cl. 2—71.)



8. A tie slip of the class specified for removable insertion between the folds of a collar, consisting of a body having an operating strap secured to and extending over one side and depending below the lower edge thereof, the opposite ends of the body having inwardly projecting flanges.

1,399,580. TUBE HOLDER AND EJECTOR. WILLIAM J. ROTHROCK, Wilmington, Del. Filed Mar. 26, 1920. Serial No. 368,937. 2 Claims. (Cl. 248—20.)



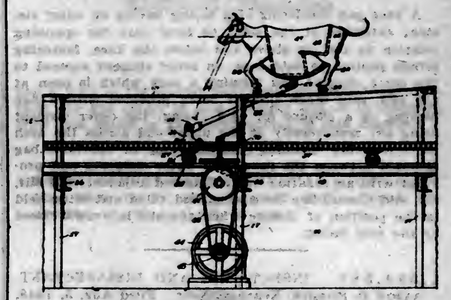
1. A device of the kind described comprising a bracket arm having a semi-circular jaw portion lying in a vertical plane, a movable plate member mounted vertically on a side of the bracket arm and having a coöperating jaw, a flange carried by the plate member overhanging the arm of the bracket, and a leaf spring secured to the bracket arm and bearing on the upper face of the flange.

1,399,581. PISTON-RING. THOMAS GUNNI SAXTON, New York, N. Y. Filed Apr. 16, 1919. Serial No. 290,434. 1 Claim. (Cl. 74—109.)



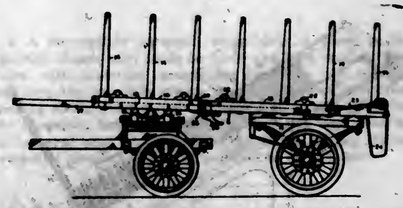
A piston ring comprising an inner ring member and an outer ring member, said members being associated in interlocked relation and susceptible as a unit of longitudinal and peripheral expansion, the outer face of the inner member including a central outwardly extending angular ridge, oppositely inclined face portions diverging from said ridge, and a shoulder projecting outwardly therefrom at the termination of one of said inclined face portions, the inner and outer faces of the shoulder being parallel and the peripheral face of the shoulder normally flush or slightly within the periphery of the piston, the inner face of the outer ring member comprising an angular groove formed of oppositely inclined continuous plane surfaces extending from the angle of the groove and terminating in the inner edges of the upper and lower faces of the member, one of said plane surfaces being complementary to the reversely inclined face of the inner ring member and having a free sliding contact therewith, whereby axial and radial movements may be imparted to the ring elements to seal the opposite sides of the piston groove.

1,399,582. AMUSEMENT DEVICE. JAMES SAYIN, Brooklyn, N. Y. Filed Oct. 25, 1920. Serial No. 419,343. 5 Claims. (Cl. 46—27.)



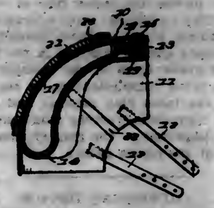
1. In an amusement device, a stationary annular runway having an undulating surface provided with concentric annular slots, a plurality of concentric circular rows of cars movable thereover, a common means for driving the same in opposite directions, swinging means for connecting the cars to the driving means through said slot to compensate for the relative vertical movements of the cars with respect to the driving means, and means for preventing the advancement of the cars beyond their connection with the driving means.

1,399,583. TRUCK. WILLIAM OSCAR SHADBOLT, Brooklyn, N. Y. Filed Feb. 19, 1919. Serial No. 278,082. 5 Claims. (Cl. 298—17.)



1. An extensible truck adapted for motor trucking and comprising a body composed of separable sections, a rear axle supporting the rear body section, a forward axle, a fifth wheel disposed on said forward axle and supporting the forward body section, and a reach in sliding relation to said fifth wheel and projecting forward thereof in the contracted position of the truck, the forward body section being connected with said fifth wheel and slidably adjustable on said reach from or toward said rear body section.

1,399,584. PNEUMATIC KNEE-PAD. James T. Shelton, Cooper, Tex. Filed May 21, 1919. Serial No. 298,653. 1 Claim. (Cl. 2—138.)

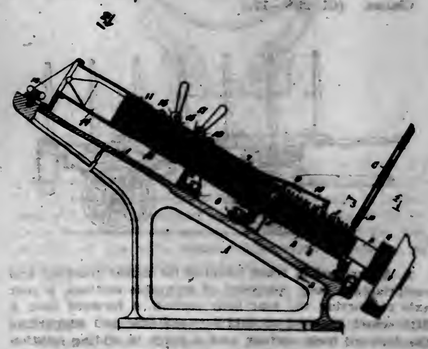


A knee pad consisting of a casing having an outer element extended at the sides to form ears for spanning relation to the leg above and below the knee, fastening straps secured to said ears, an inner element secured to the outer element and forming a sack which is open at one end, said inner element being provided with a flap serving as a closure for said casing, the outer element being slit transversely at the upper end across the arch thereof, lacing spanning said slit, and an inflatable bag disposed between the inner and outer elements and provided with an inflation valve disposed adjacent said slit, the said closure flap embracing said valve and being held in the position of closure when the slit is drawn closed by the said lacing.

1,399,585. INSECTICIDE AND DISINFECTANT. Aaron D. Shreve, Kearney, Nebr. Filed Aug. 5, 1918. Serial No. 248,380. 1 Claim. (Cl. 167—3.)

A composition for the purpose set forth consisting of a mixture of the following ingredients in about the proportions stated; crude tar oil, ten gallons, carbon produced during the conversion of oil into gas and known as high-pressure carbon, ten gallons, carbolic acid, five gallons, sodium chlorid, five pounds, and sodium oxid, five pounds.

1,399,586. MILK-BOTTLE-CAP-TUBING MACHINE. Paul Raymond Simmons, Huntington, Ind. Filed Mar. 23, 1918, Serial No. 224,274. Renewed June 3, 1921. Serial No. 474,764. 6 Claims. (Cl. 226—14.)

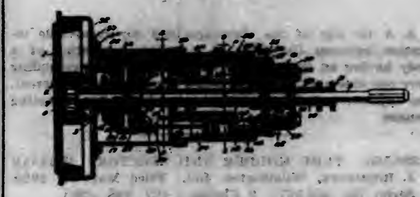


1. A machine of the class described comprising a guide tube, means for feeding bottle caps into the tube, means for supporting a packing tube in alinement with the guide tube, a tubular coupling connecting the packing tube with the guide tube, and means in the coupling for engaging the caps for holding the same while the packing tube and coupling are removed from the device.

1,399,587. PROCESS OF PRECIPITATING VISCOSE. Franz Strimmig, Hanover, Germany. Original application filed June 12, 1913, Serial No. 773,824. Divided and this application filed Aug. 12, 1916. Serial No. 114,661. 15 Claims. (Cl. 18—54.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

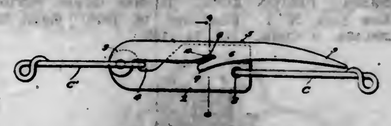
1. Process for treating cellulose products for the manufacture of films and filaments, which consists in squirting the viscose into an acid-free concentrated solution of a neutral salt also containing only a small percentage of an ammonium salt.

1,399,588. PNEUMATIC TRANSMISSION. John W. Struck, Spokane, Wash. Filed Jan. 5, 1920. Serial No. 349,541. 1 Claim. (Cl. 74—34.)



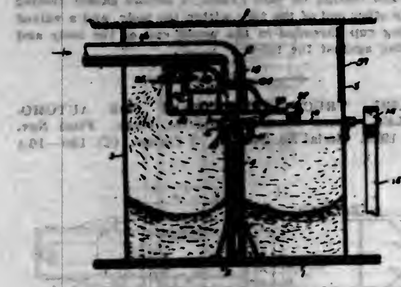
In an apparatus of the class described, a drive member having a bevel gear with a hollow shank fixed thereto, a driven shaft rotatable in said shank, a casting having a fluid chamber and a bore encompassing said driven shaft and provided with an enlarged head fixed to said shaft, opposed stub shafts carried by said head, bevel gears rotatable on said stub shafts and meshing with the gear carried by the drive member, eccentrics fixed to said stub shaft gears, cylinders carried by said casting and each having an exhaust valve opening into said fluid chamber and a valved inlet opening into the atmosphere, pistons reciprocable in said cylinders, pitmen connecting said eccentrics and pistons, and an outlet opening in one wall of said fluid chamber, and a manually operable valve for controlling the discharge through said opening.

1,399,589. CHAIN FASTENER AND TIGHTENER. Fred M. Trimble, Humboldt, Nebr. Filed Mar. 9, 1921. Serial No. 451,052. 2 Claims. (Cl. 24—69.)



2. A fastener of the class described comprising a member having a bill at one end with a link receiving seat at its base and an aperture at its other end, for permanent connection with a link at one end of the chain to be connected, a combined lever and latch member pivoted at one end to the bill of said first mentioned member and having a forwardly inclined seat in its inner edge provided with an overhanging guard, said guard being in the form of a hook-like member midway its ends directed toward the pivoted end thereof.

1,399,590. MIXER. Grover Cleveland Trunlow, Dupper, N. C. Filed May 14, 1921. Serial No. 469,449. 11 Claims. (Cl. 19—9.)



1. A mixer of the character described, including a feed pipe, a continually swinging hollow distributing arm communicating with the feed pipe, means for introducing a current of air and the material to be mixed into the feed pipe, means carried by the distributing arm for scattering the material discharge therefrom, said means comprising a conical deflector, and means for revolving said deflector.

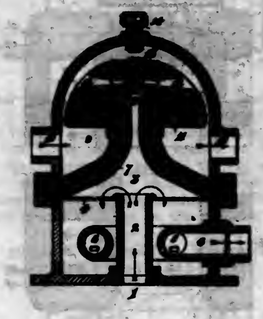
1,399,591. BRAKE ATTACHMENT. Walter B. Uffner, Jamaica, N. Y. Filed Nov. 12, 1919. Serial No. 337,976. 2 Claims. (Cl. 303—89.)



1. In combination, an air brake system including a cylinder having a piston connected to a brake rigging, and an air pressure source connected to the cylinder and equipped with a controlling valve having an exhaust pipe, a rack bar secured to the piston and movable therewith, an auxiliary cylinder, a piston in said last cylinder, a pivoted dog connected to the last piston and adapted to be moved by the latter to engage the rack bar, a pipe connected to the auxiliary cylinder, and an auxiliary controlling valve connecting said last pipe to the exhaust pipe for directing air pressure exhausted from said first controlling valve into the auxiliary cylinder for actuating the dog and said auxiliary controlling valve being adapted to be positioned to permit the exhaust air pressure from the first named valve to escape to the atmosphere and to permit the air pressure to escape from the auxiliary cylinder.

1,399,592. DEVICE FOR SEPARATING GASES FROM HOT WATER. Heinrich Wenner, Frankfort-on-the-Main, Germany. Filed July 31, 1914. Serial No. 854,821. 3 Claims. (Cl. 210—15.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. In apparatus for the purpose set forth, the combination of a chamber having an inlet and an outlet for hot water, a strainer in said chamber, a second chamber having an inlet and an outlet for cold water and an outlet for gas, a partition between said chambers, having an orifice enabling steam and gas to pass from the first mentioned chamber to the second mentioned chamber,



and a float in the second mentioned chamber, adapted to close the gas outlet of said chamber and to be removed from said outlet by gas accumulating in said chamber.

1,399,593. CONVERTIBLE GARMENT. Irving Wheeler, New York, N. Y. Filed Jan. 12, 1921. Serial No. 436,960. 8 Claims. (Cl. 2—145.)

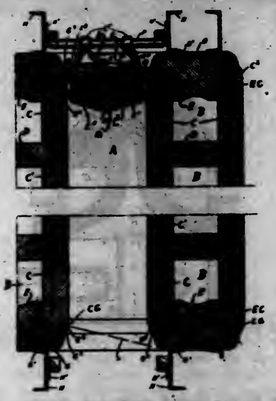


1. A convertible garment, comprising a dress having shoulder straps each made in front and back sections provided with fastening means for fastening the sections together, the shoulder straps providing a neck and front opening and arm scyes, and combined bloomers and waist, the bloomers having a sanitary back flap and forming an integral part of the waist, the latter having sleeves extending through the said arm scyes of the dress.

1,399,594. COKE-OVEN DOOR AND DOORWAY. Louis Wilputte, New Rochelle, N. Y., assignor of two-thirds to Alice A. Wilputte, New Rochelle, N. Y. Filed Jan. 17, 1921. Serial No. 437,647. 5 Claims. (Cl. 202—6.)

1. In a coke oven having a vertically disposed doorway and a door removably inserted in said doorway, the improvement which consists in metallic door and doorway parts which coöperate to provide outwardly flaring troughs at the sides of the door open at their inner and outer edges and adapted to receive mortarlike luting material,

and each of such width at its outer edge that the luting material may readily be thrown into it, and narrow



enough at its inner edge to prevent substantial amounts of the luting material being thrown through it.

1,399,595. COKE-OVEN-WALL CONSTRUCTION. LOUIS WILPUTTE, New Rochelle, N. Y., assignor of two-thirds to Alice A. Wilputte, New Rochelle, N. Y. Filed Oct. 14, 1921. Serial No. 507,610. 3 Claims. (Cl. 202—6.)



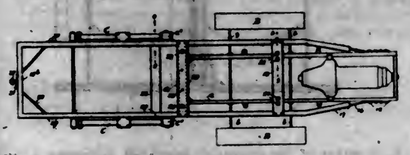
1. In a coke oven structure comprising coking chambers and interposed hollow heating walls, the improvement which consists of brickwork forming the outer end and the side walls of the flue spaces in the ends of the heating walls and metallic armor for the ends of the heating walls, said armor and brickwork being so relatively arranged and disposed that the armor positively holds the side wall bricks against spreading.

1,399,596. PRIMING-CUP. CHARLES G. ANDERSON, Jr., Buffalo, N. Y. Filed May 19, 1920. Serial No. 382,463. 1 Claim. (Cl. 123—187.5.)



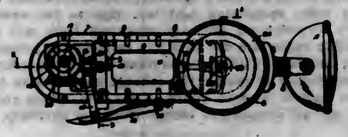
A priming cup comprising a cylindrical body having oppositely disposed sight openings, a flange formed on one end of said body and projecting inwardly and outwardly of the same, a pipe formed on said flange and in communication with the cylinder of an engine, a gasket on said flange within the body, a transparent tube in said body and resting on said gasket, a second gasket resting on the other end of the tube within the body, and a valved priming cup threaded in the upper end of the body and pressing against the tube.

1,399,597. TRUCK ATTACHMENT FOR AUTOMOBILES. JOHN ARMSTRONG, Seattle, Wash. Filed Nov. 11, 1918. Serial No. 262,013. 3 Claims. (Cl. 180—16.)



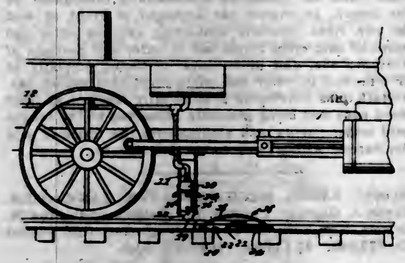
1. An attachment for application to the chassis of an automobile for converting the latter into a truck, including a truck frame adapted to be imposed on the frame of an automobile and presenting side bars spaced to lie outside of the side members of the automobile frame, steel elements on said side bars and projecting forwardly beyond the same, said elements presenting front portions offset laterally inward from the general planes of said side bars and presenting side surfaces adapted to lie against the said members of the automobile frame, means to detachably secure said elements to the automobile frame, a cross bar on top of said side bars and secured thereto, vertically disposed U-bolts extending through said side bars in position to receive and effect clamping engagement with the side members of the automobile frame, a second cross bar also disposed on top of said side bars rearward of the first cross bar and positioned to be imposed on the rear cross bar of the automobile frame, bolts for securing said rear cross bar to the imposed second mentioned cross bar, side springs at the outside of said side bars, rearward of the second mentioned cross bar, brackets on said side bars to which the forward ends of the springs are connected, and a girt uniting said side bars and disposed at the under side of the latter adjacent to said brackets to resist any tendency of the truck frame to wind.

1,399,598. FLASHLIGHT-GENERATOR. WILLIAM WALFRED ANDERSON, Michigamme, Mich. Filed Mar. 1, 1921. Serial No. 448,798. 1 Claim. (Cl. 240—8.5.)



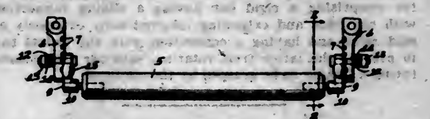
A dynamo operated flash-light including an armature, a lamp, means to conduct the current generated by said armature to said lamp, a plurality of fly wheels associated with said armature to provide the latter with an even speed when operated, a plurality of magnets arranged end to end, a plurality of field poles secured to the ends of said magnets, a gear train secured on a shaft transversal to the longitudinal axis of the armature, a worm gear associated with said gear train, a worm meshing with said worm gear to impart to the armature a high speed ratio, a segmental rack, a hand operated lever, a link connecting the lever with the said rack.

1,399,600. RAILWAY SAFETY APPLIANCE. EARL E. BUNN, Lakehurst, N. J. Filed Oct. 21, 1920. Serial No. 418,428. 1 Claim. (Cl. 246—190.)



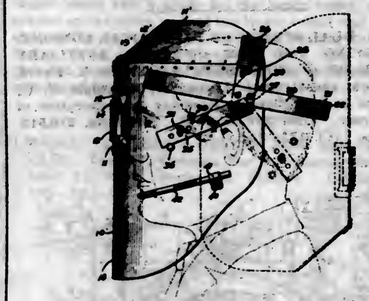
A safety appliance for railway trains having a relief valve for normally retaining train pipe pressure and the plunger in operative relation to the valve and having a tappet member depending toward the road bed, and a ramp consisting of a bow spring having one terminal secured to the road bed, a bell-crank lever disposed below the spring at an intermediate point in the length of the latter, a link connection between the terminal of one arm of the lever and the remaining terminal of the bow spring, a movable road side signal, and operative connections between said signal and the remaining arm of the bell-crank lever, whereby operation of the signal may serve to bend the spring to raise the central member of the latter for engagement with the tappet member of the relief valve.

1,399,601. LAWN-MOWER ATTACHMENT. WILLIAM J. BOLL, Platteville, Wis. Filed Sept. 16, 1920. Serial No. 410,764. 6 Claims. (Cl. 56—238.)



3. A roller adjusting attachment for lawn mowers, comprising a pair of roller carrying adjusting plates, handles and locking lugs on the roller carrying adjusting plates and the blade supporting frames of the mower having arc shaped series of recesses therein adapted to receive the lugs, said roller carrying adjusting plates pivotally connected to the blade supporting frames and springs maintaining the lugs in the recesses.

1,399,602. HELMET OR MASK. FREDERICK MENGLE BOWERS, Chester, Pa. Filed May 21, 1921. Serial No. 471,330. 5 Claims. (Cl. 2—117.)



1. A headgear for masks comprising a split band adapted to encircle the head, a U-shaped member embracing the split ends of said split band, resilient members interposed between the ends of the split band and the U-shaped member, and means for pivotally connecting said headgear within the mask.

1,399,603. ATTACHMENT FOR TEMPER-SCREWS. CHARLES A. BUTLER, Okmulgee, Okla. Filed July 1, 1919. Serial No. 308,002. 2 Claims. (Cl. 287—61.)



1. In combination with a commerical temper screw having the usual reciprocable reins formed with the usual

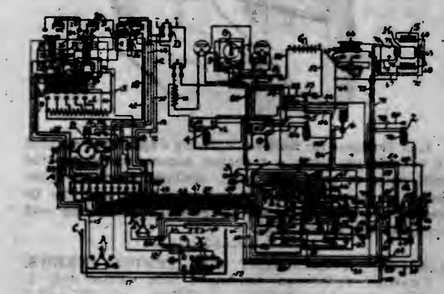
stic nut for engaging the tamper screw, such tamper screw being provided with the hand bar for rotating it and a swivel seat for the swivel bar, an attachment therefor comprising a rigid bar having a sliding connection with the reins and extending longitudinally exteriorly of said reins and having a connection with the swivel bar to prevent the latter from rotating, said bar also constituting a handle to be grasped by the operator.

1,399,604. QUININ SILVER-PHOSPHATE COMPOSITION AND PROCESS OF MAKING SAME. ROBERT LATTA CROWN, Memphis, Tenn. Filed Feb. 24, 1920. Serial No. 360,831. 7 Claims. (Cl. 167—9.)

1. A process of making a germicidal agent which consists in adding a solution of a phosphate to a solution of silver salt to form an insoluble precipitate of silver phosphate, washing said precipitate, dissolving said precipitate in a syrupy phosphoric acid, and adding alkaloidal quinin to complete saturation.

7. A germicidal composition which consists of a mixture of quinin silver phosphate and quinin phosphate.

1,399,605. DUAL SYSTEM OF ELECTRICAL CONTROL EMBODYING THE USE OF MAIN AUXILIARY SOURCE OF CURRENT-SUPPLY. EDWIN G. DAVIS, New York, and DAVID L. LENDQUIST, Hastedale, N. Y., assignors to Otis Elevator Company, a Corporation of New Jersey. Filed Jan. 5, 1918. Serial No. 210,512. 8 Claims. (Cl. 172—152.)



1. In an electric elevator system, the combination of a car, a hoisting motor, and hoisting cables between the car and motor, a high voltage main source of power supply for the motor, and a low voltage auxiliary source of power supply for the motor, independent of the said main source of supply, comprising a relatively low voltage storage battery, and a relatively high voltage motor generator set, comprising a separately excited low voltage unit, adapted, in case of an emergency, to receive current from the said low voltage auxiliary source of power and function as a motor, and, in a different case, to act as a generator and deliver low voltage power to the said auxiliary source of power, and a relatively high voltage unit, adapted to deliver current to the field windings of the hoisting motor, and as a motor to receive current from the said high voltage main in the charging operation of the said low voltage auxiliary source of power.

2. In an electric elevator system, the combination with the hoisting motor, electro-responsive brake apparatus therefor, a source of power supply for the motor and brake, an auxiliary source of power supply comprising a storage battery forming the supply for the armature of the hoisting motor, and a motor generator forming the supply for the field winding of the hoisting motor and the brake.

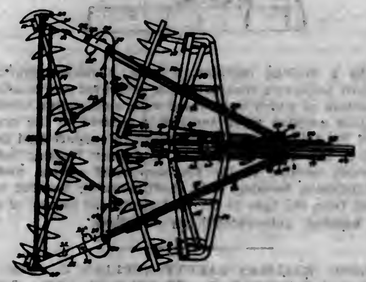
1,399,606. SURGICAL APPLIANCE. SAMUEL[illegible] FINKELSTEIN, Battle Creek, Mich. Filed Dec. 2, 1920. Serial No. 427,740. 8 Claims. (Cl. 128—85.)



1. A surgical appliance comprising a leg stretching frame, a supporting shoe movably associated with said frame, means for vertically adjusting the position of said shoe with respect to the frame, said means also serving to support the shoe upon the frame, and means for moving said stretching frame independently of the shoe supported

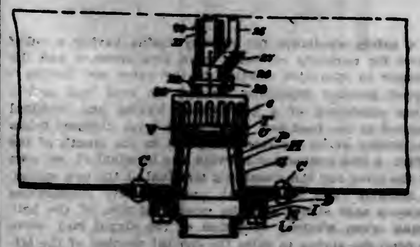
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1,399,607. TANDEM DISK HARROW. FRANK H. FRENCH, Preston, Iowa. Filed June 12, 1920. Serial No. 388,520. 13 Claims. (Cl. 55—83.)



1. In a tandem disk harrow, a leader harrow provided with a frame and a tongue, a trailer harrow provided with a cross frame bar extending substantially throughout its entire length, an evener bar arranged in front of said frame bar, links pivotally connecting extreme outer end portions of said cross frame bar to outer end portions of said evener bar, and draft links connected pivotally at their rear end to outer end portions of said evener bar, said draft links converging substantially together at their forward ends and being pivotally connected to the tongue of said leader harrow and arching over the frame of said leader harrow without any connection thereto.

1,399,608. VALVE MECHANISM FOR TANK-CARS. MYRES A. GARRETT, Chicago, Ill., assignor to Carlton M. Garrett, New York, N. Y. Filed Apr. 21, 1920. Serial No. 375,642. 43 Claims. (Cl. 137—21.)



34. The combination with a tank car having an opening at the bottom provided with a ring secured to the

tank wall about the opening, of a valve casing having a flange at the bottom and a frusto-conical valve seat with an opening, and a frusto-conical valve with an opening fitting the seat, said casing flange matching and secured to said ring, and said casing and valve being located mainly within the interior of the tank wall.

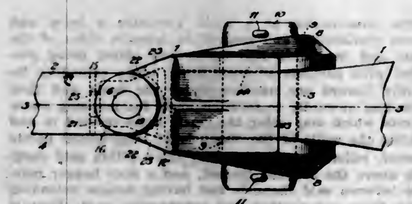
41. The combination with a tank car having an opening at the bottom with a rotary discharge valve at said opening and an opening at the top, of means for rotating said valve from a closed to an open position, and vice versa, said means extending from the valve to a position adjacent said top opening, the arrangement of said means being such that the action of opening the valve projects the upper end of said means outside the opening at the top, and the action of closing the said valve lowers the said raised portion of said means below the opening.

1,399,609. CAR COUPLING AND DRAFT-YOKE CONNECTION. ENOCH GEORGE, Jr., Pittsburgh, Pa., assignor to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 4, 1920. Serial No. 386,607. 3 Claims. (Cl. 213—42.)



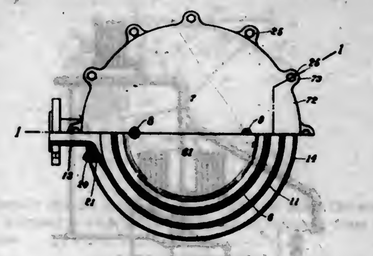
1. In a coupler and yoke connection, the combination with a coupler having a stem, of a yoke, a member intermediate of said yoke and coupler provided with spaced arms adapted to receive the stem of said coupler between them, means for pivotally connecting said intermediate member to said yoke, and means for connecting the stem of said coupler to said intermediate member, said last named means being adapted to engage said spaced arms and to resist lateral spreading thereof.

1,399,610. COUPLING AND YOKE CONNECTION. ENOCH GEORGE, Jr., Pittsburgh, and ISAAC H. MILLIKEN, Aspinwall, Pa., assignors to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 30, 1920. Serial No. 399,993. 5 Claims. (Cl. 213—42.)



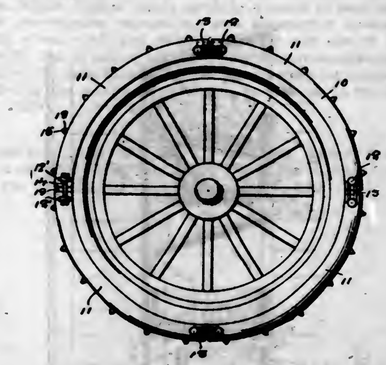
1. In a device of the character indicated, the combination with a coupler having a slotted stem, of a draft yoke, a member intermediate of said coupler and yoke and pivotally connected to the latter, a key for connecting said coupler and intermediate member, and means for pivotally connecting said intermediate member and yoke, said intermediate member being provided at its forward end with oppositely disposed slotted portions adapted to receive the coupler stem between them and being provided at its rear end with a plurality of perforated pivot lugs which are integrally united on opposite sides by rearwardly converging webs.

1,399,611. CONDENSER. RUDOLF F. GOSCHE, Elyria, Ohio. Filed July 20, 1918. Serial No. 245,164. 2 Claims. (Cl. 257—209.)



1. In a condenser, the combination of a condensing chamber formed of two differently sized nested vessels connected together at their top edges, a jacket about the larger vessel and a cover for the inner vessel, a coat of enamel on the inner wall of the larger vessel and the outer wall of the smaller vessel, and tubes passing through the jacket walls and communicating with the condensing chamber through which vapors may be introduced to and withdrawn from the chamber.

1,399,612. ANTISKID DEVICE FOR MOTOR-VEHICLES. VANCE L. GOSNEY, New Alexandria, Ohio. Filed June 11, 1920. Serial No. 388,318. 1 Claim. (Cl. 152—16.)

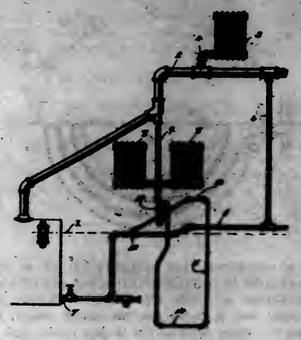


The combination with a sectional metallic casing adapted to cover the tread and side walls of a tire, of a plurality of relatively soft metallic cone shaped members provided with exteriorly threaded reduced shanks removably secured to said casing, and having shoulders abutting the outer surface of said casing and a plurality of cylindrical cores of relatively hard metal projecting outwardly from said cone shaped members.

1,399,613. HEATING SYSTEM. ADELBERT L. GOWER, Janesville, Wis. Filed Mar. 29, 1920. Serial No. 369,620. 2 Claims. (Cl. 237—67.)

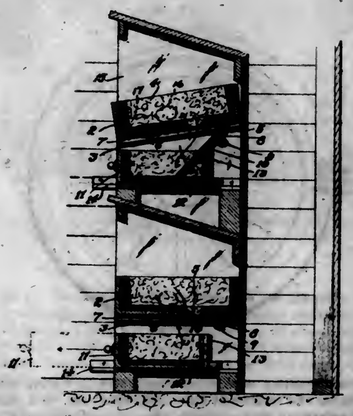
1. In a steam heating system, a steam generator, a steam supply pipe, a radiator connected with the supply pipe relatively close to the generator, a return pipe connected with the base of the generator to return water of condensation thereto, a condensation pipe leading downwardly from the radiator, and a pipe loop having one end connected with the condensation pipe and the other end

with the return pipe, the top of the loop being a relatively considerable distance above the water level of the



generator, but below the bottom of said radiator, the bottom of the loop being below the lowest point of the return pipe.

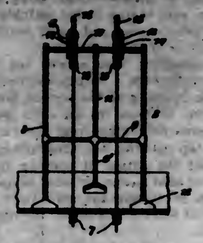
1,399,614. HEN'S NEST. JOAB C. GROVES, Valley Point, W. Va. Filed July 1, 1920. Serial No. 393,300. 3 Claims. (Cl. 114—48.)



1. In a nesting device, a nest container perforated at the bottom and pivotally mounted forward of said perforation, a closure for said perforation pivotally mounted rearward thereof in such a position and relation as to cause the said closure to form an incline for the delivery of eggs from said nest receptacle upon a predetermined downward movement of the forward part of said nest box upon said pivot.

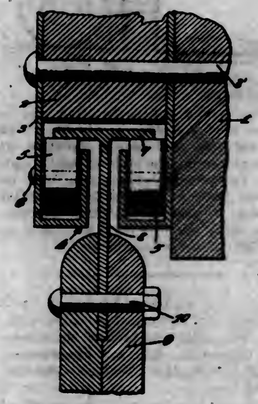
1,399,615. AUTO-SIGNAL. MAX R. GRUENDER, Milwaukee, Wis. Filed Dec. 30, 1919. Serial No. 348,962. 1 Claim. (Cl. 74—39.)

A signal operating mechanism, the combination of a frame including a cross piece, a pair of spaced drums rotatably mounted on the cross piece of said frame, a cable connected with each drum, a handle on each drum for rotating the same, ratchet mechanism for holding the



drums in adjusted positions and a lever pivoted to each drum and yieldingly connected with the handle for releasing said ratchet mechanism.

1,399,616. TRACK AND HANGER. JOHN LAYTON GUERRANT, Sedalia, Mo. Filed Nov. 17, 1917, Serial No. 202,831. Renewed May 23, 1921. Serial No. 471,970. 1 Claim. (Cl. 16—96.)

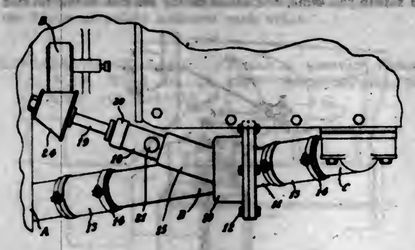


The combination of a track including a beam and plates overlapping and secured to opposite sides of the beam and depending therefrom, said plates being provided with portions at their lower edges extending inwardly toward one another under the beam and then extending upwardly to form channels for trapping water therein which may enter the track, axles secured to and bracing the walls of the channels at longitudinal points thereof, rollers mounted on said axles within said channels above the bottoms thereof, and a door hanger movable between said channels and having flanges extending away from one another and overhanging said channels and seated on the rollers.

1,399,617. WATER-CIRCULATOR. ARNO HAHN, Boulder, Mont. Filed June 1, 1920. Serial No. 385,860. 1 Claim. (Cl. 122—175.)

The combination with a water cooled engine of a motor vehicle, of a substantially tubular member interposed between the outlet of the radiator and the inlet of the water jacket, an obliquely disposed portion of said member constituting a bearing, a shaft journaled in said bearing and projecting from said member in the direction

of the fan belt pulley, a cone-shaped pulley carried by the free end of said shaft and arranged to be driven by



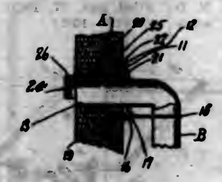
the fan belt, and a propeller carried by the opposite end of the shaft and operating in said tubular member for the purpose specified.

1,399,618. BOX-OPENER. CLARENCE L. HAHN, Baltimore, Md. Filed July 20, 1920. Serial No. 397,658. 4 Claims. (Cl. 220—43.)



1. The combination with a container having an annular bead spaced from the open upper edge thereof and a removable flanged cover engageable over the container, of a member mounted for sliding movement through an opening in the bead and engageable with the edge of the cover for the removal of the latter.

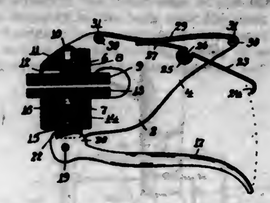
1,399,619. STOVEPIPE-THIMBLE ATTACHMENT. HARRY HEFFNER, Cleveland, Ohio. Filed Feb. 21, 1920. Serial No. 360,348. 4 Claims. (Cl. 126—314.)



1. The combination with a stove pipe thimble, of a member carried by the thimble and projected within the flue to direct rain water or the like away from the pipe receiving opening of the chimney.

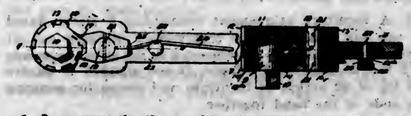
1,399,620. POCKET SEAL-PRESS. HAROLD HELLEMS, West Somerville, Mass. Filed Aug. 8, 1921. Serial No. 490,457. 6 Claims. (Cl. 101—3.)

1. A seal press comprising a body member, a block held thereby having a recess therein, a die member having a hub fitting said recess, and a screw passing through said block into said hub, the block having a channel



to permit the die member to be withdrawn after the screw has released it and its hub is partially removed from the recess.

1,399,621. WRENCH. ARTHUR D. HULLETT, Newport, Tenn. Filed Feb. 23, 1921. Serial No. 447,023. 2 Claims. (Cl. 81—62.)



1. In a wrench, the combination with a handle having an enlarged head, a nut receiving element rotatably carried by said head, a ratchet member integral with said rotatable element, a separable ratchet member carried by and rotatable with said first mentioned ratchet member, double toothed pawls pivotally secured in said head for simultaneous engagement with the ratchet members, and spring controlled means secured to one side of the handle and to one of said pawls for simultaneously oscillating the same for engagement with the ratchet members whereby the rotating element may be operated to the left or right.

1,399,622. ARTIFICIAL-ARM FRAME. ANTON HULSMANN, San Francisco, Calif. Filed July 15, 1921. Serial No. 485,006. 2 Claims. (Cl. 3—12.)



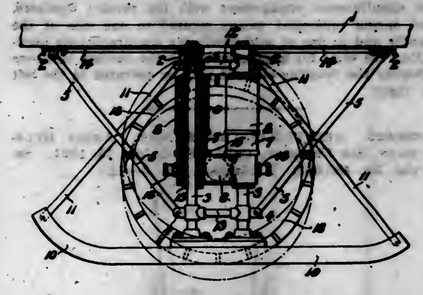
1. In an artificial arm frame, fore arm side members produced from a single strip of material and including an integral stump cover, and upper side members pivotally connected to ends of the fore arm side members, said upper side members being produced from separate sheet metal blanks each folded upon itself to produce a double thickness of metal for each member.

1,399,622. CHAIR. Elmer D. Hoyt, Huntington, W. Va. Filed Apr. 19, 1921. Serial No. 462,669. 2 Claims. (Cl. 45—137.)



1. A furniture attachment comprising a sleeve flared at one end and having a transversely disposed cut-out portion to provide a band connected to the sleeve by means of a tongue, said band being adapted to receive the leg of an article of furniture and means for securing the ends of the band together.

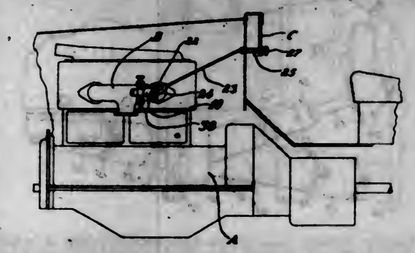
1,399,624. MOTOR-SLEIGH. Lionel Gustavus Andrew Ferguson Jarkel, Luton, England. Filed Oct. 24, 1919. Serial No. 333,091. 1 Claim. (Cl. 180—6.)



In a sleigh attachment for motor vehicles, the combination of cross members adapted to be attached to a vehicle frame, pairs of vertical standards depending from said cross members, runners secured to the lower ends of said standards, truss rods connecting the lower ends of said standards with said cross members, truss rods connecting the upper ends of said standards with said runners, sliding axle boxes mounted on said standards, an axle mounted in said boxes, telescoping spring housings on said rods, springs in said housings tending to force said boxes downwardly, and an open-work driving drum mounted on said axle and so arranged as to project below said runners or be moved above said runners.

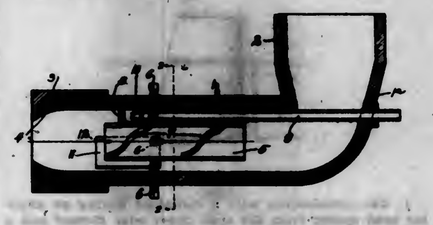
1,399,625. PRIMING DEVICE. Christian A. Johnson and Jesse P. Carruthers, Denver, Colo. Filed July 24, 1920. Serial No. 398,660. 6 Claims. (Cl. 123—180.)

1. An auxiliary priming device comprising a casing including a main portion adapted to be threaded into an intake manifold of an engine and including portions arranged at right angles and each having a bore extending to the end thereof, the extremity of one portion extending into the manifold carrying a screen of fine mesh, a rotatable plug disposed at the juncture of said casing portions and having passages adapted to register with the bores therein, a lever secured to said plug whereby to rotate the same, the other casing portion being formed



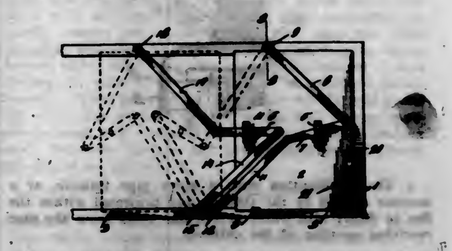
with a gasoline inlet passage terminating in a valve seat and being provided with an air inlet opening, a valve slidably mounted and adapted to engage said seat, and means connected with said lever whereby to move said valve.

1,399,626. OIL-BURNER. Jacob F. Kraus, Pittsburgh, Pa. Filed Sept. 28, 1920. Serial No. 413,294. 5 Claims. (Cl. 158—76.)



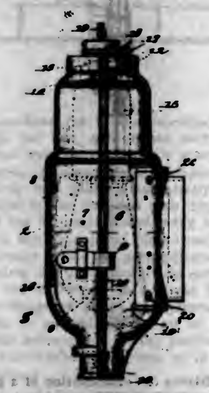
1. In an oil burner, a hollow body, a tubular member supported within said body substantially coaxially therewith, said member being open at both ends and spaced away from the body, the passage formed between the tubular member and the body being open at both ends, and means for discharging oil onto the upper portion of the tubular member.

1,399,627. CAR-DOOR OPERATOR. Edward Larson, Grand Forks, N. D. Filed Apr. 27, 1920. Serial No. 376,974. 8 Claims. (Cl. 16—156.)



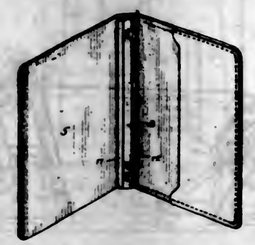
2. The combination with a door frame and a sliding door; of operating and supporting means for the door comprising levers fulcrumed midway their ends on one face of the door, the fulcrums being in transverse alinement and spaced apart sufficiently to permit the free swinging of the levers without contacting with each other, the remote ends of said levers having links pivotally connecting them with the upper portion of the frame at longitudinally spaced points, and the adjacent ends of the said levers connected by links with the lower portion of the frame at points adjacent each other.

1,399,628. GAGE-LAMP. Nathan A. Levitan, Brooklyn, N. Y. Filed Jan. 24, 1920. Serial No. 353,775. 1 Claim. (Cl. 240—2.)



A device of the class described, comprising a pair of sections hingedly connected together at one side and having their co-acting edges formed with interfitting elements, and one of said sections formed with a side opening a flanged plug removably secured to one of said sections, a light bulb in said plug and in line with the aforesaid opening, a base whereby said device may be supported, and a removable section having a tubular extension secured over the aforesaid opening for projecting the light from said device, as and for the purpose described.

1,399,629. LOOSE-LEAF BINDER. Harry Brunel Lewis, Brooklyn, N. Y., assignor to Boorum & Pease Company, New York, N. Y., a Corporation of New York. Filed Nov. 27, 1920. Serial No. 426,689. 3 Claims. (Cl. 129—1.)



1. In a loose-leaf book, a cover, a back plate for supporting a binder mechanism arranged within the back of the book, and a fabric stitched to the cover and underlying said back plate, the opposite margins of said fabric being folded back over the back plate to hold the latter in position.

1,399,630. RAT-TRAP. Albert Livesay, Grinnell, Iowa, by John Ford, guardian. Filed Feb. 19, 1920. Serial No. 359,905. 2 Claims. (Cl. 43—61.)

1. An animal trap comprising a hollow body open at one end, a gravity-lowered gate slidably mounted on said body to close the open end, a shoulder on the inner face of said gate adjacent the lower edge of the latter, a transverse bar disposed in the body near the open end thereof, said bar having a notch formed in its upper face constituting a seat, a trip rod resting loosely in said seat at a point intermediate the middle and one end of the bar,



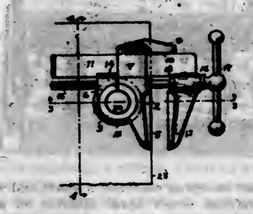
said one end of the latter being flattened and engaged with the aforesaid shoulder, the opposite end of the rod extending to a point near the opposite end of the body, and a bait hook depending from the last named end of the rod, the bait, hook, and rod counterbalancing and holding said gate in open position.

1,399,631. PLANE-SCRAPER. Charles J. Lofdahl and Carl A. Lofdahl, Joliet, Ill. Filed Dec. 27, 1919. Serial No. 347,754. 1 Claim. (Cl. 145—48.)



A frame, a rod spanning said frame, a front plate having a turned edge journaled on said rod, means associated with said plate and said frame to secure the plate in adjusted positions, ears extending from the plate, a rod mounted by said ears, a back plate intermediate said last rod and the adjacent portion of the front plate, flanges on the back plate resting on the second mentioned rod at one end, a blade intermediate the front plate and back plate of a width less than the width of the space between said plates, screws mounted by both of said plates and engageable against the blade on opposite sides to vary the angularity thereof, and a screw on the front plate engageable with the blade to urge it against the back plate at a distance from the first mentioned screws.

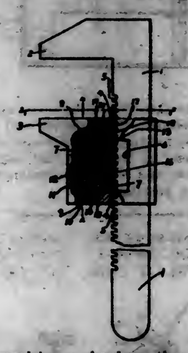
1,399,632. VISE. John R. Long, Akron, Ohio, assignor to The Akron Wrench and Vise Company, Akron, Ohio, a Corporation of Ohio. Filed July 5, 1921. Serial No. 482,366. 4 Claims. (Cl. 81—41.)



1. A vise, comprising a main body portion having a jaw and a hub with an opening extending therethrough, short and long arms at one side of said hub, the longer

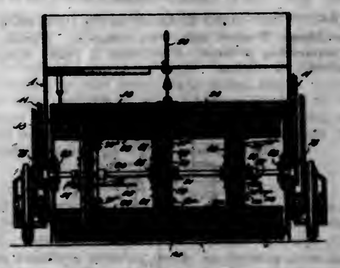
arm having rectangular openings and there being a bore therethrough and said short arm having a screw-threaded opening in register with said bore, and a movable jaw having a rectangular shank extending through the opening of said long arm and provided with a screw extending through said bore and opening in said pair of arms.

1,399,633. WRENCH. REGINALD LUMSDEN, Hamilton, Ontario, Canada. Filed Jan. 24, 1921. Serial No. 439,557. 1 Claim. (Cl. 81—158.)



A wrench comprising a shank portion, a fixed jaw carried integrally thereby, a movable jaw slidably mounted upon the shank, a longitudinally disposed rack on the shank, the movable jaw having a rectangular transverse opening therein, a bracket having a vertical portion and an upper and lower horizontal arm extending from its upper and lower end respectively, the bracket being pivotally mounted within the rectangular opening in the movable jaw and being capable of being swung laterally therein about its pivot points, the lower pivotal connection of the bracket comprising a screw member whereby the bracket is detachably mounted in the movable jaw, a worm rotatably mounted in the bracket and co-acting with the rack, the top face of the upper horizontal arm of the bracket provided with a dimple, and a spring held ball carried in an orifice in the movable jaw and adapted to engage the dimple for locating the worm and rack in their engaged positions.

1,399,634. STREET-SWEEPING BRUSH. CHARLES WALTER LUND, Willows, Calif. Original application filed Apr. 11, 1919, Serial No. 289,826. Divided and this application filed Mar. 10, 1921. Serial No. 451,149. 5 Claims. (Cl. 15—37.)



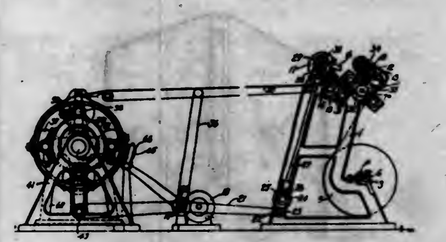
1. In a street sweeping machine, a shaft and rigid arms radiating therefrom, brush heads slidable on said arms, screw jacks extending from the shaft to said brush heads and having operating pinions, gears rotatable on said shaft and meshing with said pinions, and means for rotating said gears.

1,399,635. SCREWDRIVER WITH GRIPPING ARRANGEMENT FOR HOLDING THE SCREWS. JOHANNES LINDMARK, Askim, Sweden, assignor to Lasia Navigations-Instrument Aktiebolag, Gottenburg, Sweden. Filed Mar. 8, 1919. Serial No. 281,471. 6 Claims. (Cl. 145—52.)



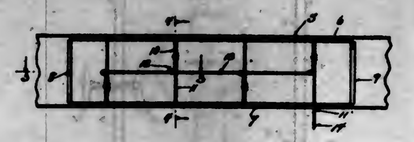
1. In screw-drivers the combination of a gripping-device consisting of two jaws flexibly connected to one another and slidable along the driver to hold the screw to be operated securely against the end of the driver, an adjustable guard slidable along the driver and along the jaws and pressed against the outer sides of the jaws, the said guard being spring-actuated, so as to strive to shove itself backward from the end of the driver, and also being provided with a member connecting the guard with the jaws, so that these are caused to be carried along with the guard and thereby clenched about the screw to be operated.

1,399,636. MACHINE FOR FORMING TUBULAR CONTAINERS. AXEL C. V. MALM, Philadelphia, Pa., assignor to The Pennsylvania Paper Products Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Oct. 7, 1918. Serial No. 257,126. 34 Claims. (Cl. 93—61.)



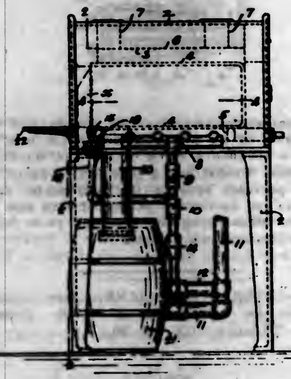
1. In a mechanism of the character described, means for feeding a web of flexible material from a roll of such material, a device operating intermittently to apply cement to the surface of said web for the entire width thereof as it is fed from said roll, a device operating to sever sections of material from said web, said severing device being so timed with relation to said cement applying device that each section of material severed from said web will have a portion only of its surface coated with cement, and a device to receive said severed sheet and wind the same into the same into tubular form.

1,399,637. DRAFT-REGULATOR. PETER MARCZYNSKI, Milwaukee, Wis. Filed Feb. 28, 1921. Serial No. 448,670. 1 Claim. (Cl. 126—296.)



A draft regulator for flues comprising a frame to fit the inside of the flue, said frame including a pair of channel shaped side bars with the channels facing outwardly, a series of substantially semi-circular plates normally extending in a plane substantially at right angles to the direction of the flue and each cutting off substantially half of the flue, said plates being in staggered relation and each having a pivot pin extending transversely through the center of the flue perpendicular to the straight edge of the plate and journaled at its ends in the channel bars, a flat rod extending in a plane between the flat edges of the staggered plates and pivotally connected to each, whereby to maintain them all in parallel relation and means for moving one of the plates about its pivot and thereby simultaneously moving all of the other plates about their pivots.

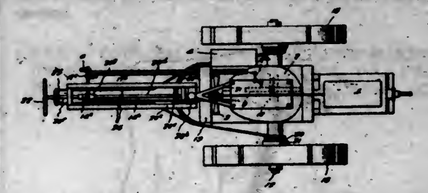
1,399,638. FURNACE. RICHARD MARX, Philadelphia, Pa. Filed May 6, 1920. Serial No. 379,320. 8 Claims. (Cl. 263—50.)



1. The combination in a furnace of a muffle having an opening; means for heating said muffle; means for maintaining a curtain of burning gaseous material across said opening; and means for causing a portion of the bottom of the muffle to be cooler than the remainder.

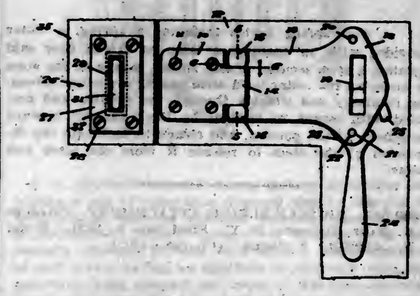
1,399,639. TRACTOR. HENRY MEYER, Rhineland, Mo. Filed Feb. 7, 1921. Serial No. 443,116. 3 Claims. (Cl. 180—17.)

1. Driving means for tractors and the like including an axle bearing ground or drive wheels, means carrying the same, a gear splined and movable laterally on the axle and characterized by anti-friction rollers at the side thereof, means to shift said gear, and shiftable means for



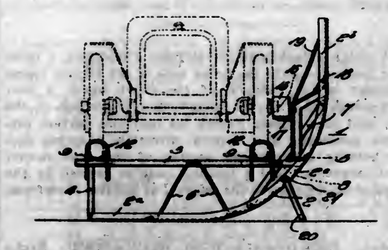
coöperation with the gear; the said shiftable means equipped with three worms for alternate engagement with the anti-friction rollers.

1,399,640. HASP AND LATCH. CALVIN J. MINTON and CHARLES H. HOLMES, Gage, Okla. Filed Apr. 5, 1920. Serial No. 371,328. 4 Claims. (Cl. 292—285.)



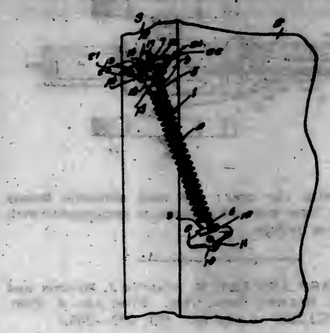
2. A hasp having a transverse keeper-engaging slot, and adapted to be reversed with either edge at the top, a latch, and a pivot member for the latch, said hasp having portions at opposite sides of said slot for the engagement of said pivot members in the reversed positions of the hasp.

1,399,641. AUTOMOBILE-TILTING FRAME. ALLEN J. MIER, JAMES R. MIER, and JOHN W. IVERS, Oklahoma, Okla. Filed Dec. 27, 1920. Serial No. 453,266. 4 Claims. (Cl. 214—1.)



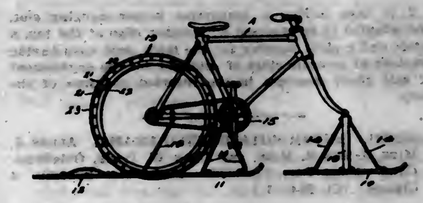
1. An automobile tilting frame comprising a pair of end frames each including a rocker, a pair of wheel supporting tracks extending between said end frames, means for clamping the automobile wheels to said tracks, a pair of hub engaging blocks, and an angle metal bar extending between the two end frames and spaced upwardly and laterally from one of said tracks to receive said blocks in its angle.

1,399,642. DOOR-SPRING. THOMAS J. MEANY, Washington, D. C. Filed Jan. 24, 1919. Serial No. 272,655. 2 Claims. (Cl. 16—99.)



1. A door spring device including a spring, a collar provided with an opening, a latch to extend over said opening, a stem secured to said spring, means on the stem to underlap the collar, said stem having a portion extending rotatably and slidably through the opening and provided with means to engage the latch through upward movement of the portion, and means to facilitate the depression of the stem to release it from the latch and collar.

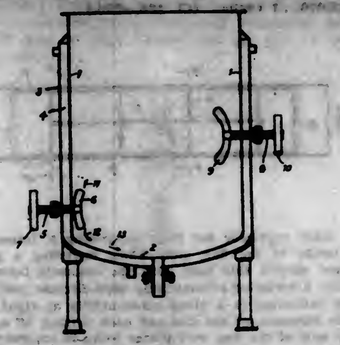
1,399,643. BICYCLE SLEIGH ATTACHMENT. CHARLES K. NASH, Holcomb, N. Y. Filed Jan. 8, 1921. Serial No. 436,989. 2 Claims. (Cl. 206—161.)



1. A sleigh attachment for bicycles comprising a front runner connected with the front fork of the bicycle frame subsequent to the removal of the front wheel, a rear runner connected with the lowermost rear portion of the frame, said rear runner having its rear end portion pivoted for movement in a vertical direction, a spring normally holding said pivoted section of the rear runner against movement, and a toothed annulus carried by the rear wheel subsequent to the removal of the tire therefrom.

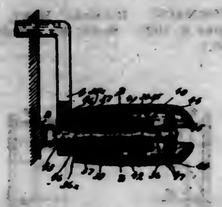
1,399,644. LIQUID-AGITATING MECHANISM. NIELS D. NIELSEN, Elyria, Ohio. Filed July 1, 1920. Serial No. 393,426. 37 Claims. (Cl. 259—104.)

1. In combination, a tank having a saucer-shaped bottom and cylindrical side walls, a propeller shaft projecting through the side walls and a propeller on the end thereof located closely adjacent a portion of the meeting line of the bottom and side walls and adapted when operated to cause liquid to be driven against an upwardly curved portion of the bottom by which it is deflected along the side wall opposite the propeller, a second propeller mount-



ed in the side wall of the tank opposite and above the first propeller adapted to drive across the tank the liquid thus deflected upwardly by the bottom of the tank.

1,399,645. ARRESTING MEANS FOR THE SHIFTING-CRANKS OF CALCULATING-MACHINES. VALENTIN JAKOB ODHNER, Gottenborg, Sweden. Filed Aug. 22, 1919. Serial No. 319,219. 2 Claims. (Cl. 74—33.)



1. In a calculating machine, the combination with a shifting crank, of an arresting device for said crank, comprising a stationary notch or the like, an arresting piece, a handle divided into a plurality of parts, a cam mechanism provided between the said parts, actuated by said parts and operatively connected with said arresting piece for disengaging the arresting piece from the notch when the handle is grasped.

1,399,646. INTERLOCKING LINK. JOSEPH OPPMAN, Pittsburgh, Pa. Filed May 25, 1920. Serial No. 384,064. 2 Claims. (Cl. 59—90.)



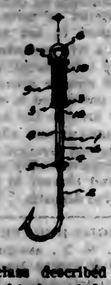
1. A link blank comprising a body portion of substantially rigid strain resisting material and having oppositely extending hook-like members, the free end of each hook having diagonally opposite recesses in its opposed edges and lugs carried by the base of the other hook to enter and interlockingly engage said recesses for securing the hooks in operative position, said base having a recess between said lugs to receive the correspondingly shaped hook till whereby the parts are securely locked in closed position and held against strains exerted longitudinally or edgewise.

1,399,647. ROPE-CLAMP. JAMES OSMAN, Camdenville, Pa. Filed Feb. 26, 1921. Serial No. 448,782. 8 Claims. (Cl. 24—134.)



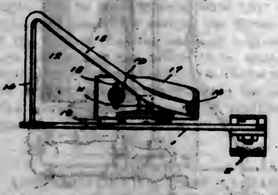
4. A rope clamp comprising a plate having an annular flange integral therewith, a pair of eccentrically pivoted elements having coöperating teeth thereon rotatably mounted to the inner side of said plate, said flange being cut away to permit a rope to be trained about and engaged between said rotatable elements and the flange in different clamping position, segmental blunted teeth also formed on said elements and means exterior of the plate for actuating said elements to clamp and release the said rope from clamping position with said blunted teeth.

1,399,648. HOOK. CHARLES PARRELLO, Liverpool, N. Y. Filed June 20, 1920. Serial No. 390,709. 1 Claim. (Cl. 43—27.)



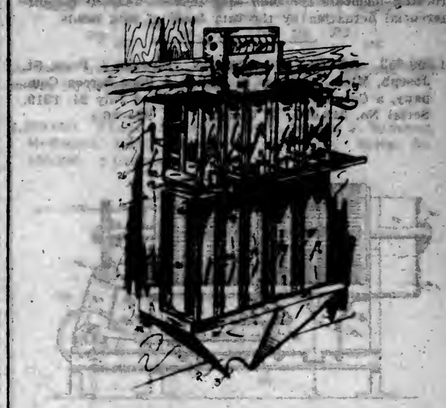
A device of the class described comprising a hook provided with a straight elongated shank terminating in an off-set eye, a guide rod formed from a single strand of wire, bent upon itself to provide a loop, extending through the off-set eye of said hook and terminating in an off-set eye surrounding the shank of said hook, a disk mounted on said rod and engaging said loop and a spring catch secured to said rod, passing through said loop and adapted to engage the offset eye of said hook.

1,399,649. TENSION DEVICE. GEORGE T. PENLAND, Gastonia, N. C. Filed Jan. 14, 1921. Serial No. 437,330. 3 Claims. (Cl. 28—20.)



3. In a tension device the combination of a body having an inwardly tapered mouth and an eye connected through a slot with the inner end of said mouth and also having on its rear portion a lip with a sharp edge, a guard and guide having an upright portion connected to the body and also having a forward inclined portion, a transverse portion and a rear arm connected with the body, and a rotary friction member mounted on the body and disposed above the slot and eye, the said body being adapted for connection to a carrying rail and being further provided in front of the lip with a litter-discharge opening.

1,399,650. COIN-COLLECTING AND CHANGE-MAKING DEVICE. GILES A. PEARSON, Wilmington, Del. Filed Oct. 27, 1919. Serial No. 333,621. 8 Claims. (Cl. 194—30.)

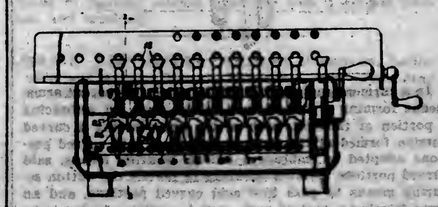


1. A coin-receiving and change-making apparatus comprising a row of magazines disposed side by side for the reception of coins of different denominations, a series of horizontally movable plates, one thereof being horizontally disposed beneath each of said magazines, each of said plates having an aperture to receive a coin, said apertures being adapted for coins of different denominations, said plates being disposed end to end and movable in a direction lengthwise of said row, selectively-actuated coin controlled elements horizontally slidable in a plane above said magazines, and mechanism intermediate said elements and said plates for selectively moving the latter.

1,399,651. COMPOSITION FOR PREVENTING INCRUSTATION IN STEAM-BOILERS. ADOLFO PASSI, Trieste, Italy. Filed June 16, 1921. Serial No. 478,099. 1 Claim. (Cl. 87—27.)

A disincrustant for steam boilers, the constituent ingredients of which are 20–40% of crude pyroligneous acid, 10–30% of soda, and 0.5–1.5% of arsenious anhydrid.

1,399,652. SETTING-UP MEANS FOR CALCULATING-MACHINES. EDGAR E. PHINNEY, West Orange, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a Corporation of New York. Filed Mar. 15, 1920. Serial No. 365,970. 7 Claims. (Cl. 235—79.)

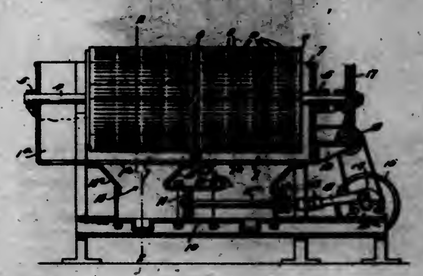


1. In a calculating machine having a differential actuating element, a series of denominational keys having

a common degree of operative movement, and means for setting up said element by the operation of any key, including cam heads all of the same pattern for the stems of said keys, and a movable member adapted for differential actuation by varying fractions of the cam faces of said heads.

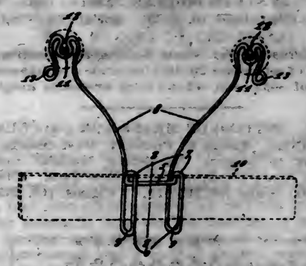
3. In a calculating machine having differential actuating elements, a series of denominational keys, and means for setting up said elements by the operation of said keys, including heads for the stems of said keys all of the same pattern and having each opposed cam faces, and rocking members for each said element adapted for differential actuation by the cam faces of said heads.

1,399,653. REVOLVING SCREEN. EDWARD J. POPE, St. Joseph, Mich., assignor to Mullen & Pope Screen Company, a Corporation of Michigan. Filed July 24, 1919. Serial No. 313,070. 5 Claims. (Cl. 92—36.)



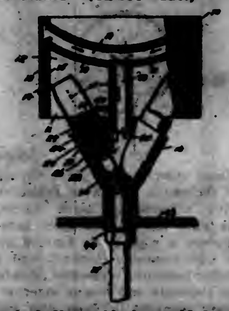
1. A screen or sifter, including a vat having an outlet at one end, a rotatable screen positioned in said vat and having a numerously slotted or perforated perimeter, a common-pressure-exerting and suction generating means coöperative with said rotatable screen, and means subdividing said vat exteriorly of said screen, whereby the material in said vat is alternately forced upwardly and drawn downwardly through the slots in the screen plates of said screen.

1,399,654. BELT. JOE R. RANDLE, Columbus, Miss. Filed Nov. 24, 1920. Serial No. 426,230. 1 Claim. (Cl. 241—9.)



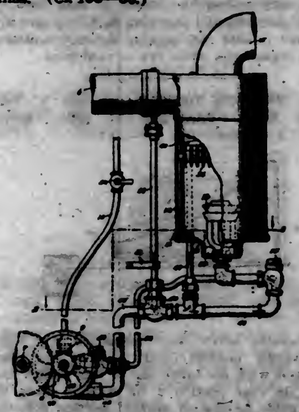
In a garment supporter, a belt, a pair of divergent arms, means forming a part of each of the arms for embracing a portion of the belt, each of the arms having a curved portion formed at the outer end thereof, said curved portions adapted to embrace a button securing means, said curved portions forming openings to permit the button securing means to pass into said curved portions, and an arms forming a part of each curved portion adapted to be operated to vary the size of the opening to permit the same to be passed over the button securing means.

1,399,655. BURNER-CLEANER. ENOCH RECTOR, New York, N. Y., assignor, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn., a Corporation of Connecticut. Filed July 15, 1918, Serial No. 244,964. Renewed Apr. 30, 1921. Serial No. 465,926. 10 Claims. (Cl. 158—120.)



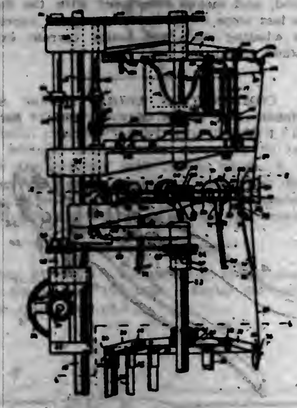
1. A burner including a block provided with a gas containing chamber having an opening through a side thereof, a metallic plug demountably positioned in said opening and provided with a bore extending therethrough, a Venturi tube of a heat resisting substance demountably fitted in said bore and having a gas conducting passageway extending axially therethrough, an outer portion of said passageway being constricted to form a vent of relatively small clearance designed to act as a Venturi tube, a cleaner in the form of a wire mounted in said passageway, free to fall by gravity into normal position substantially clear of the vent, said cleaner provided with an enlarged head at its lower end positioned in said chamber, presenting a relatively large area to the action of the gas flowing through the passageway and adapted to be raised by the pressure of gas flowing through the passageway thereby to move the wire longitudinally of the same and to reciprocate the upper end thereof in the vent to clear the same of any accumulated deposits.

1,399,656. PILOT-LIGHT-BURNER CONTROL. ENOCH RECTOR, New York, N. Y., assignor, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn., a Corporation of Connecticut. Original application filed Oct. 16, 1916, Serial No. 125,796. Divided and this application filed Feb. 18, 1919, Serial No. 277,868. Renewed Apr. 30, 1921. Serial No. 465,926. 2 Claims. (Cl. 158—36.)



1. In a device of the class described, the combination with a source of liquid fuel, a rotary pump constantly operated and supplied from said source and having a discharge port, a burner, a main conduit of relatively large conducting capacity between the discharge port of the pump and said burner, a valve normally closing said conduit, a by-pass conduit of relatively small conducting capacity, carried by the pump, supplied from said source and leading to the burner, a gravity controlled valve in said by-pass conduit closed by the pressure from the pump in the main conduit acting on the top thereof and opened by the pressure from said source acting on the underside thereof when free of the pump pressure.

1,399,657. MACHINE FOR UNRAVELING KNITTED GOODS AND WINDING THE YARN. MICHAEL F. ROSECHON, Utica, N. Y. Filed Sept. 15, 1919. Serial No. 323,711. 12 Claims. (Cl. 242—1.)



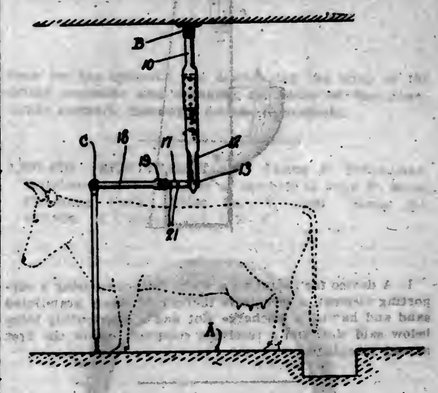
1. In a machine for unraveling knitted goods having a plurality of feeds, the combination of a thread-drawing unit for each feed of the knitted goods, each drawing unit comprising a movable thread-engaging member having at different parts thereof different drawing speeds, a thread guide movably mounted to direct the thread to differently-speeded parts of the thread-engaging member, a movable arm engaged by the thread as it comes from the knitted goods and adapted to be moved by its thread in one direction when said thread becomes tight and to be moved by the thread in the other direction when the thread becomes loose, and means operatively connecting said thread guide and said arm whereby the guide is moved to the lower-speeded part of the thread-engaging member when the thread is tight and to the higher-speeded part when the thread is loose and means for moving the thread-engaging members of the various drawing units at a given relative speed, a rack for holding the fabric to be unraveled and means for obtaining relative movement between said fabric rack and the rest of the machine whereby the unraveling points on the fabric remain in operative position relative to their respective drawing units.

1,399,658. ANTISKID DEVICE. ANTON I. SANDBO, Rock Island, Ill., assignor to Bear Manufacturing Company, Rock Island, Ill., a Corporation of Delaware. Filed Apr. 30, 1920. Serial No. 377,804. 16 Claims. (Cl. 152—14.)

7. An anti-skid device comprising a clamp composed of two longitudinal side sections, each section having adjustably connected parts with portions for receiving spokes of a wheel so that each section can be adjusted according to the spacing of the spokes, each section being independently adjustable and having means for maintaining the adjustment traction means connected to said sections, and means for connecting said sections.



1,399,659. STALL ATTACHMENT. MYRON J. SANDERS, Medimont, Idaho. Filed Aug. 23, 1920. Serial No. 405,265. 2 Claims. (Cl. 119—27.)



1. A stall attachment of the character described comprising spaced parallel vertically disposed bars suspended from a suitable overhead support and associated therewith for swinging movement, a transverse bar carried by lower ends of the before mentioned bars and having a sharp edge, means whereby said bar may be adjusted vertically with respect to the back of the animal, and means connecting said bar with a part of the stall, said means being adjustable to permit of horizontal movement of the bar with respect to the back of the animal for the purpose specified.

1,399,660. PROCESS OF GRANULATING CALCIUM CYANAMID. PAUL SAVÈS, Toulouse, France. Filed Nov. 22, 1919. Serial No. 340,079. 4 Claims. (Cl. 71—9.)

1. The process of granulating calcium cyanamid, consisting in treating calcium cyanimid with a silicate solution, and crushing.

1,399,661. CLOTHESPIN. CHARLES SCHRODER, Bellisville, and AUGUST KUHEL, Milwaukee, Wis. Filed May 5, 1921. Serial No. 466,871. 2 Claims. (Cl. 24—137.)



1. As a new article of manufacture, a clothes-pin composed of a single strip of wood having the fiber running in

the direction of its length, the strip being raised upon itself to form gripping legs, a filler block inserted within the crotch of the legs, and a pin for securing the block and legs together.

1,399,662. IMITATION WATERFALL. KARL WILHELM HERMANN SCHNEEMANN, Leipsig-Reudnitz, Germany. Filed Dec. 16, 1920. Serial No. 430,745. 3 Claims. (Cl. 46—37.)



1. A device for imitating a water-fall, comprising a supporting element, a receptacle thereon for finely granulated sand and having a discharge slot and a distributing ledge below said slot, and a receiving receptacle below the first named receptacle.

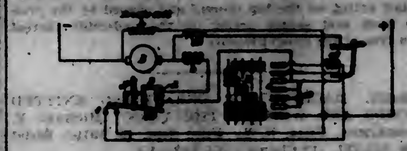
1,399,663. PROCESS OF REMOVING MATERIAL TO BE DUMPED, &c. GEORG SCHWARACK, Charlottenburg, near Berlin, Germany. Filed Oct. 7, 1916. Serial No. 124,498. 5 Claims. (Cl. 214—22.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A process of removing material to be dumped into heaps from furnace installations, consisting in directly discharging the material shut off from the atmosphere into water flowing through a tank, and in conveying the material from the tank in the direction of flow of the water.

3. In apparatus for removing material to be dumped into heaps from furnace installations, the combination with a discharge pipe for the material, of a channel containing water sealing the end of the discharge pipe, and conveyer means for removing material discharged into the channel, said conveyer means comprising conveyer elements each having the form of a shovel and having wheels mounted to run on the sides of the channel.

1,399,664. SYSTEM OF CONTROL FOR ELECTRIC MOTORS OPERATING UNDER VARIABLE AND ABNORMAL CONDITIONS. WILLIAM BAILEY BOOTH and WILLIAM BARTHOLOMEW, Montreal, Province of Quebec, Canada. Filed Nov. 25, 1918. Serial No. 263,262. 6 Claims. (Cl. 172—278.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



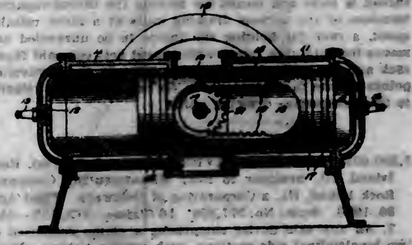
1. The combination of an electric motor having a series winding, stepped controller means for starting the motor on full field, and means associated with the controller toward its last steps, to automatically shunt current from the series winding when the motor current exceeds a predetermined amperage.

1,399,665. COMBINATION-TOOL. SAMUEL SHAPIRO, Philadelphia, Pa. Filed May 2, 1920. Serial No. 379,906. 1 Claim. (Cl. 7—4.)



A tool of the character described comprising a pair of members pivoted in crossed relation and terminating in handles, the confronting faces of said handles rearwardly of and adjacent the pivot being formed with recesses of varying depth or width, and laterally and outwardly extending jaw members carried by said members and formed with spaced grooves on their outer faces, the thickness of the combined last-named members at the bases of the grooves when these members are closed being substantially the same as the width of said first-named recesses when the handle members are closed.

1,399,666. ENGINE. DUANE W. SAUER, Empire, Oreg. Filed Oct. 5, 1920. Serial No. 414,909. 1 Claim. (Cl. 123—56.)



In an engine, a pair of aligned cylinders, sparking members at the outer ends of said cylinders, a shaft journaled

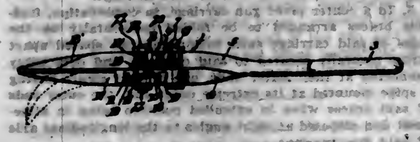
between the inner ends of said cylinders, a supported gear on said shaft, and a single piston connected for reciprocation within said cylinders and formed open at its central portion, the opening being elongated, the opposite longitudinal walls of said opening being formed with rack teeth meshing with said supported gear, one set of rack teeth meshing with the gear at one stroke of the piston and the other set meshing with the gear on the opposite stroke.

1,399,667. TOY AUTOMOBILE. CHARLES J. SLADEK, Chicago, Ill. Filed Dec. 12, 1919. Serial No. 344,362. 5 Claims. (Cl. 46—48.)



1. A toy automobile comprising a body, wheels supporting the body, gears having driving connection with certain of said wheels, rubber bands connected to said gears, a device for twisting said rubber bands, a crank for operating said device, means for controlling direction of operation of said crank, and a manually operated element for controlling the operation of said last named means.

1,399,668. SHEARS. THORWALD C. STENE, Jacksonville, Fla. Filed Jan. 17, 1921. Serial No. 437,849. 2 Claims. (Cl. 30—13.)



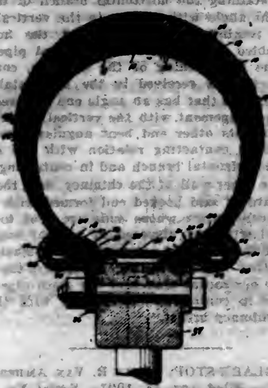
1. A sheet metal worker's snips, as herein described, comprising two handle members having lapping body portions which are pivotally connected, the body of one of the handles being of a greater length than the other, and the last mentioned body having its inner face depressed, rounded in plan, formed with radial teeth, a jaw having its outer face at its inner end depressed and formed with radial teeth engaging the first mentioned teeth, the body of the second jaw having a rounded end provided with peripheral teeth, a second jaw having its inner end rounded and provided with teeth to engage between the first mentioned teeth, a pivot passing through both of the jaws and through the end of the body of the first mentioned handle, said pivot having a flared shoulder received in a flared opening in the first mentioned jaw, the pivot having both of its ends threaded, and nuts screwed on said ends and contacting with the outer faces of both of the jaws.

1,399,669. PUMP. ROBERT H. STOKES, Houston, Ohio. Filed Mar. 22, 1921. Serial No. 454,553. 3 Claims. (Cl. 74—14.)

2. A device of the class described comprising a rotatable shaft, a pair of eccentrics thereon connected together and including a lifting eccentric and a downstroke eccentric, straps for the eccentrics slidably mounted thereon, a reciprocating member, a flexible member connecting the reciprocating member with the strap of the lifting eccentric, a pitman connecting the reciprocating member with the strap of the upstroke eccentric and means for engaging the strap of the lifting eccentric therewith and disengaging the strap of the downstroke eccentric therewith from for the upstroke and disengaging the strap of the lifting eccentric therewith and engaging the strap of the downstroke eccentric therewith for the downstroke.



1,399,670. RESILIENT TIRE. JAMES F. STRANAHAN, Pittsburg, Calif., assignor of one-half to John F. Mora, Pittsburg, Calif. Filed Dec. 7, 1920. Serial No. 428,906. 4 Claims. (Cl. 152—8.)



4. A tire comprising a series of wires extending obliquely around the tire in a given direction, a series extending obliquely around the tire in another direction, spaced annular elements for securing the individual wires, and spacing elements for the annular elements, each of the spacing elements including a plate for contact with a wheel rim, and flared engaging devices connected with the plate and positioned for contact with the inner portion of the tire at the edges thereof.

1,399,671. CONTAINER AND CAP THEREFOR. GEORGE M. S. TAIT, Washington, D. C. Filed Feb. 14, 1917, Serial No. 148,641. Renewed Sept. 12, 1921. Serial No. 500,269. 1 Claim. (Cl. 215—31.)

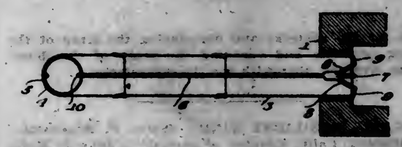
The combination with a bottle or other container comprising a mouth portion provided with a plurality of

cap-holding grooves of different heights, of a resilient closing cap seated in an upper groove and comprising upper



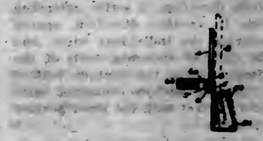
and lower members which are separable relatively, the lower member adapted to be drawn down into another groove of said mouth portion.

1,399,672. STOVEPIPE AND CHIMNEY CLAMP. James Clarence Teller, Jefferson, S. D. Filed July 25, 1919. Serial No. 313,143. 1 Claim. (Cl. 126—318.)



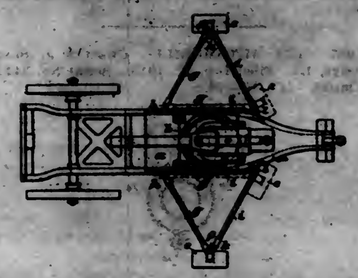
The combination with a stove pipe and chimney, of means for sustaining the horizontal branch of the stove pipe at a right angle with respect to the vertical branch thereof, for retaining the section of the horizontal branch assembled and for retaining the end pipe section thereof in the flue opening of the chimney, comprising a spring rod that is received in the horizontal branch of the chimney and that has an angle end received in and in contacting engagement with the vertical branch of the stove pipe, and its other end bent angularly to form a hook disposed in contacting relation with the said end section of the horizontal branch and in contacting engagement with the inner wall of the chimney, said rod having its sides inward of said hooked end formed with opposite angularly directed arms whose ends are bent to provide hooks parallel with but disposed at a right angle to the hooked end of the rod, said arms exerting a tension away from each other and contacting the sides of the said end section of the horizontal branch of the stove pipe and the hooks thereof in contacting engagement with the inner wall of the chimney breast.

1,399,673. GLARE-STOP. John R. Van Ambur, Watertown, N. Y. Filed Apr. 18, 1921. Serial No. 462,306. 2 Claims. (Cl. 296—97.)



2. A plane transparency, a pair of plates between which the transparency is clamped, one of said plates having integral tongues and having a spring hook for slidably and resiliently gripping the edge of a windshield, and the other plate having perforations to receive said tongues and against which the tongues are clinched.

1,399,674. [illegible] Vienna, Austria-Hungary, assignor to [illegible] Metallwaren-Fabrik Berndorf, Actiengesellschaft, Berndorf, Germany, a Corporation of Germany. Filed Sept. 7, 1915. Serial No. 49,881. 5 Claims. (Cl. [illegible]) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

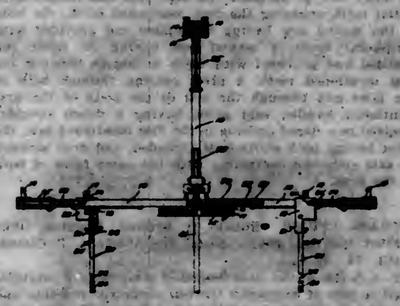


1. In combination with a gun carriage, a center pivot gun, and a standard therefor, braces arranged at the sides of said carriage comprising horizontally collapsible struts having at their outer ends a spike, the outer ends of said braces when extended being in alinement with each other, and with a line drawn through said standard at right angles to the longitudinal axis of said gun carriage.

2. In a center pivot gun carriage, in combination, foldable braces arranged on the sides of said carriage, each brace comprising a strut pivoted to said carriage and having at its outer end a spike, and a second strut pivotally connected to said first mentioned strut at a point adjacent said spike and also to said carriage.

3. In a center pivot gun carriage, in combination, foldable braces arranged to be folded horizontally on the sides of said carriage each comprising two spaced apart struts pivotally secured to said carriage, and detachably connected at their outer ends, one of said struts having a spike mounted at its extreme outer end, the outer ends of said braces when in extended position being in alinement and disposed at right angles to the longitudinal axis of said gun carriage.

1,399,675. LEAF-HOLDER. Alfred W. Wardwell, Schleisingerville, Wis. Filed Nov. 22, 1920. Serial No. 425,734. 7 Claims. (Cl. 45—82.)



1. A book support of the character described comprising a standard, arms pivoted to said standard, leaf retaining means carried by the arms, and movable means carried by the standard, the latter controlling the movement of the leaf retaining means.

1,399,676. THERAPEUTIC APPARATUS. Melanchton B. Waggoner, Cedar Rapids, Iowa. Filed Apr. 19, 1921. Serial No. 462,969. 7 Claims. (Cl. 128—177.)



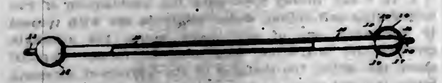
1. In an apparatus of the kind described, a stand provided with a top formed with a convex upper surface, a reservoir depending from said top and having an open upper end to receive the abdomen of the patient, a suction tube connected to said reservoir in a plane above the water-level and forming a communication with the interior of the reservoir between the body of the patient and the water-level, and means for attaching an electrical-wire connection to the exterior of the reservoir.

1,399,677. MARKER FOR CORN-PLANTERS. Strother Watson, Gallatin, Tenn. Filed Dec. 18, 1920. Serial No. 430,310. 2 Claims. (Cl. 111—82.)



1. A marking device for a planter, comprising a cup-shaped element, an apertured brace connected therewith and extending across the open end of the cup, and a supporting member, said apertured brace permitting of the mounting of the cup on the supporting member.

1,399,678. CURTAIN-ROD. Mary M. Welsh, McGill, Nev. Filed Apr. 8, 1919. Serial No. 288,525. 1 Claim. (Cl. 156—19.)

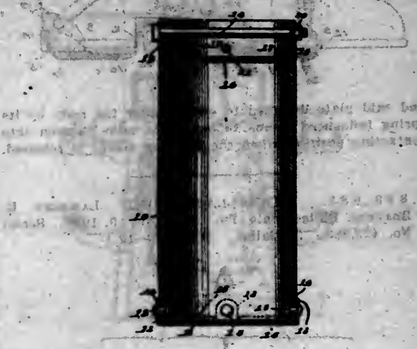


A curtain pole comprising a rod or pole, a hollow spherical member having an opening in one side for the reception of the end of the pole, a hollow projection extending from the spherical member diametrically opposite the opening and providing a seat, a tapered extremity formed on the pole and engageable with said seat and a circumferential shoulder formed on the pole and spaced from the tapered extremity for removably holding the spherical member in position the circumferential portion being spaced from the end of the tapered portion a distance slightly greater than the diameter of the spherical member, causing the tapered portion to maintain its position with reference to the seat when subjected to strain tending to cause relative angular movement.

1,399,679. METHOD OF CONVERTING SCRAP METAL INTO MERCHANT BARS. John T. Wenyon, Harrisburg, Pa. Filed Feb. 14, 1921. Serial No. 445,017. 6 Claims. (Cl. 22—203.)

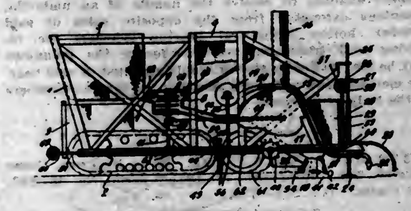
1. The process or method of producing a compact integral mass of iron or steel material in the form of an ingot, bloom, fagot, bundle, or pile, from miscellaneous particles of iron or steel scrap, which consists in assembling miscellaneous particles of iron or steel scrap in a mold, then pouring over the said scrap within the mold a new substantially slagless molten refined mass of iron or steel, to unite the particles of scrap to form a compact unit such as an ingot, bloom, fagot, bundle, or pile.

1,399,680. BIT-BOX. Murrel D. Atkinson, Indiana, Pa. Filed June 28, 1919. Serial No. 307,816. 2 Claims. (Cl. 220—24.)



1. A container comprising a receptacle open at one end, a closure snugly fitting within said end, a transverse rod engageable with the closure and adapted to be inserted in offset pairs of oppositely arranged openings whereby the closure may be secured within the receptacle, either flush with or spaced from the end of the latter.

1,399,681. ROAD-BUILDING MACHINE. Stephen F. Austin, San Antonio, Tex. Filed Oct. 1, 1920. Serial No. 413,953. 16 Claims. (Cl. 94—42.)



8. A machine for building roads comprising means for heat treating the road bed, stamps adapted to compact the road bed after being heat treated, and means for laying a surface carpet over the road bed so treated, substantially as described.

1,399,682. ANTISLIPPING ATTACHMENT FOR SHOES. Ray O. Bamdon, Upper Sandusky, Ohio. Filed May 28, 1921. Serial No. 473,259. 3 Claims. (Cl. 36—63.)

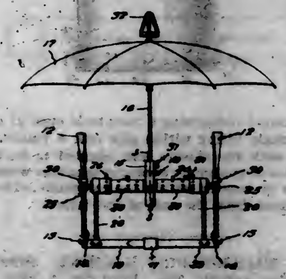
1. An anti-slipping device for shoes including a body designed to be arranged on the instep and sole portions of a shoe, and conforming in shape to said portions of the shoe, and a heel portion designed to receive the heel of the shoe, said heel portion comprising adjustable members, means on the heel portion for securing the same to the shoe, means on the outer corners of the body securing the same on the shoe, a spring influenced plate hingedly connected to the arched portion of the body, latching

ninge at the lower end of the said socket portion for holding the plate thereagainst, said casting by the plate,



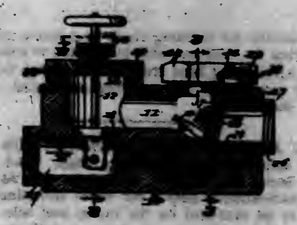
and said plate designed to swing under the body by its spring influenced means to bring the calks thereon into contacting position when the holding means is released.

1,390,683. UMBRELLA-SUPPORT. LAMBERT E. BEAVERS, Philadelphia, Pa. Filed Nov. 9, 1920. Serial No. 422,883. 2 Claims. (Cl. 135—12.)



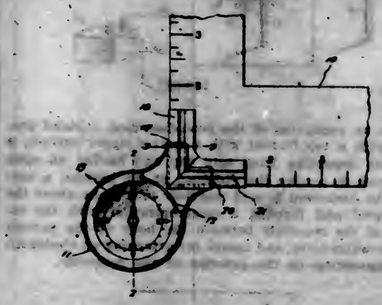
2. An umbrella support comprising a hollow tubular member adapted to receive the handle of an umbrella, trunnions extending from the opposite sides of said member, hollow cylindrical bearing members for receiving said trunnions, means whereby the trunnions may be longitudinally and rotatably adjusted in said bearing members and means for mounting the bearing members to the body of a person.

1,390,684. CHECK-VALVE. MARK BELCHER, Goose Creek, Tex. Filed Jan. 17, 1921. Serial No. 437,883. 1 Claim. (Cl. 251—128.)



A check valve including a casing having an intake and an outlet opening, a shoulder in the casing diagonally positioned with relation to the longitudinal axis of the intake opening, the said interior of the casing having a recess forming a continuation of the said shoulder, a valve seat lying against the shoulder and having a flange lying in the said recess, a check valve member having guiding projections mounted on the valve seat, a valve automatically controlled on the valve carrier, and a plate connected to the casing and bearing against the edge of the valve seat for holding the flange of the said valve seat in the recess of the casing.

1,390,685. ATTACHMENT FOR SQUARES. JOSEPH D. BOX, Chesterton, Ohio. Filed May 16, 1921. Serial No. 468,289. 3 Claims. (Cl. 33—222.)



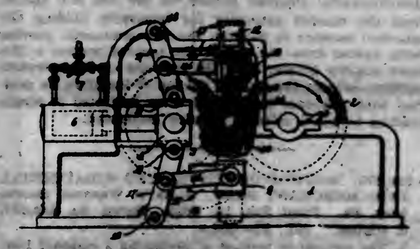
3. The combination with a square, of a compass, a holder for the compass, said holder comprising substantially circular spaced flanges and an L-shaped channeled gripping member for removably receiving the square.

1,390,686. BALL-ROLLING APPARATUS. FERDINAND MORA CANDA, New York, N. Y. Filed Nov. 12, 1919. Serial No. 337,556. 9 Claims. (Cl. 80—21.)



1. In a ball rolling apparatus, the combination of two coöperating ball rolling disks, rotatable one with respect to the other, one of said disks having the alternate grooved and ungrooved segments, the former elevated above the latter, the surfaces of the ungrooved segments being inclined downwardly and outwardly to facilitate discharge of the finished balls.

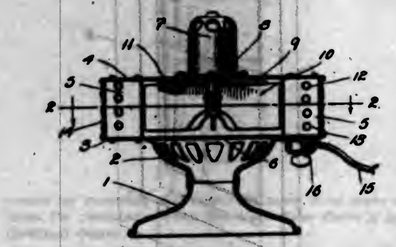
1,390,687. BALL-ROLLING APPARATUS. FERDINAND MORA CANDA, New York, N. Y. Filed Dec. 1, 1919. Serial No. 341,755. 3 Claims. (Cl. 80—36.)



3. In a ball rolling apparatus, the combination of coacting grooved ball-forming rolls, one of which is mount-

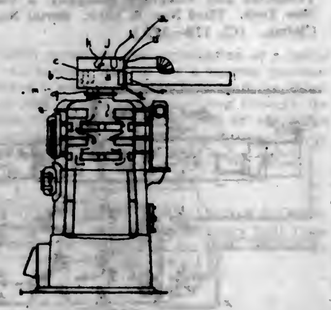
ed to be moved toward and from the other, means for so moving said roll, locating means for determining the position between said rolls of material to be acted upon, and levers pivoted at one end to fixed points and connected at the other end to said rolls and means connecting said levers at said points to the said locating means.

1,390,688. ELECTRIC HEATER. SAMUEL M. CARMEAN and JAMES H. CARMEAN, Kansas City, Mo. Filed Feb. 25, 1921. Serial No. 447,705. 5 Claims. (Cl. 219—34.)



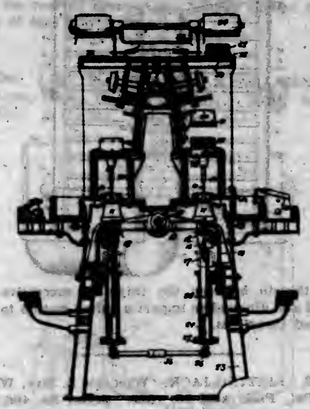
1. An electric heater comprising a substantially circular horizontal casing, a base supporting said casing and communicating with the bottom thereof, vertical posts spaced about the perimeter of the casing, heating elements carried by the posts, and an air impeller concentric within the casing.

1,390,689. FUEL-ECONOMIZER. CHARLES O. CLARK, Montreal, Quebec, Canada, assignor to William George Borland, Montreal, Canada. Filed Sept. 2, 1919. Serial No. 321,247. 3 Claims. (Cl. 110—58.)



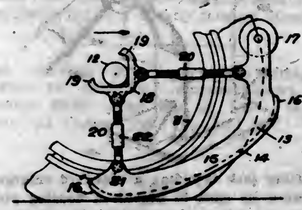
1. The combination with a furnace having a smoke pipe connection located at the top of the furnace and a smoke pipe, of a fuel economizing device adapted to be mounted upon said connection exteriorly of the furnace and effect communication between said connection and said smoke pipe, said device consisting of a hollow member the interior of which is divided into a smoke chamber and an air-heating chamber, the smoke chamber being in communication with the interior of the furnace and with the smoke pipe, said member having an air intake communicating with the air-heating chamber, a damper controlling said intake and a plurality of tubes located within said member and effecting communication between the two chambers.

1,390,690. ARTIFICIAL-SILK-SPINNING APPARATUS. JAMES CLAYTON, Coventry, England, assignor to Courtaulds, Ltd., London, England. Filed Apr. 8, 1918. Serial No. 227,350. 10 Claims. (Cl. 118—1.)



1. In apparatus for spinning artificial silk, a rotary spinning box, a housing within which said box rotates, and means for lifting said box to the upper part of the housing on the completion of the spinning operation to facilitate its discharge.

1,390,691. VEHICLE-JACK. FREDERICK P. CONNORS, Montreal, Quebec, Canada. Filed Sept. 7, 1920. Serial No. 408,721. 13 Claims. (Cl. 254—84.)

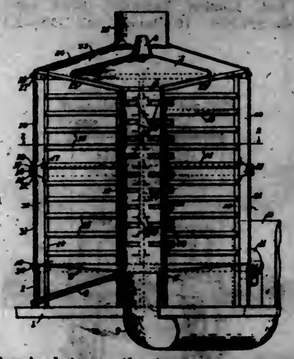


1. A jack comprising an axle rest, an arcuate cam member eccentrically disposed with respect to the axle rest, said cam member having a pair of spaced supporting points at the end remote from the rest adapted, in the axle supporting position of the device, to be disposed on opposite sides of a vertical dropped from the axle.

1,390,692. EVAPORATOR. HENRY E. CURTIS, San Jose, Calif. Filed July 6, 1920. Serial No. 394,323. 9 Claims. (Cl. 34—39.)

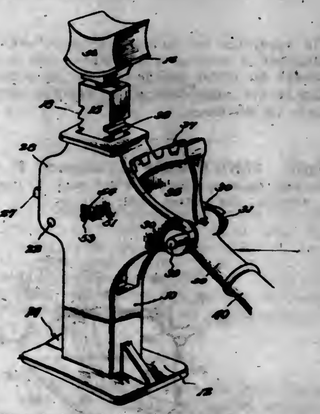
9. An evaporator including a chamber having a discharge opening in the upper portion thereof, an air conduit concentrically arranged therein and having a discharge opening at the upper end thereof, a plurality of sets of vertically spaced and radially arranged tray supports extending from said conduit, a plurality of trays

arranged in horizontal planes on said tray supports, said conduit having a plurality of laterally directed openings



formed therein between the trays on successive planes arranged and directed to impart a spiral motion to the air discharged therefrom.

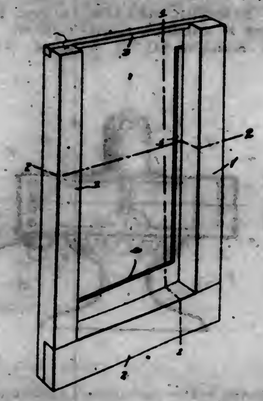
1,399,693. LIFTING-JACK. WILLIAM L. DAY, Williamsport, Pa. Filed Aug. 26, 1920. Serial No. 406,069. 2 Claims. (Cl. 254—112.)



1. A lifting jack including a standard enlarged at a point between its ends to provide a housing projecting laterally at one side of the standard, the standard being formed opposite the housing with a pair of spaced ears projecting laterally from the opposite side of the housing, a lifting bar slidable in the standard, an elevating member pivoted between said ears to coact with the bar at one side thereof, a pawl mounted within said housing to coact with the bar at its opposite side for holding the bar elevated, an adjusting bolt threaded through the wall of the housing, and a spring bearing between the bolt and said wall, the bolt being provided at its inner end with a socket accommodating the spring whereby the spring is sustained by the bolt.

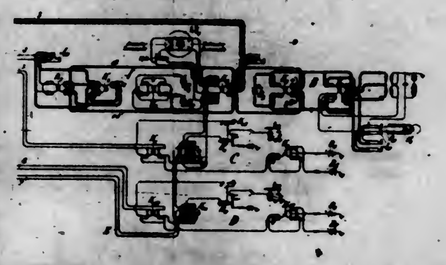
1,399,694. FILM-PACK KIT. RALPH B. DEAL, Flint, Mich. Filed Feb. 15, 1919. Serial No. 277,325. 1 Claim. (Cl. 95—19.)

As a new article of manufacture, a film-pack kit comprising upright spaced bars, a lower cross-bar of the same thickness as the upright bars fixed with respect to said upright bars and resting in the same vertical plane as the upright bars, a flange fixed with respect to and disposed immediately in front of the faces of said bars and having a lower horizontal portion extending upwardly beyond the lower cross bar and upright portions extending inwardly beyond the upright bars; said upright bars having



rabbets in their upper forward corners, and an upper reduced cross-bar fixed with respect to the upright bars and disposed in said rabbets and in a vertical plane immediately back of that of the flange whereby a vertically disposed opening is afforded between the upright bars back of said upper cross-bar.

1,399,695. ELECTRICAL TESTING-CIRCUITS. CHARLES S. DEMARREST, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Nov. 6, 1919. Serial No. 335,990. 6 Claims. (Cl. 179—175.)

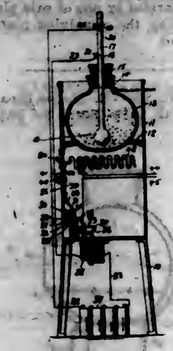


6. In a testing system, the combination of a plurality of test circuits, a meter, a signaling circuit, a plurality of line circuits, and means to disconnect the said meter from one of said test circuits and to connect said test circuit with said signaling circuit.

1,399,696. MOISTURE-TESTER. CORNELIUS P. DE ROO, Flint, Mich. Filed Sept. 9, 1920. Serial No. 409,206. 2 Claims. (Cl. 219—10.)

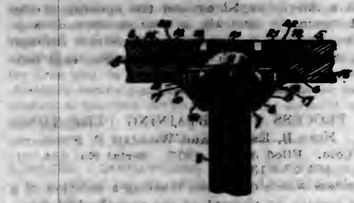
1. In an apparatus of the class described, a receptacle for the product to be tested, an electric heater device

movably supported in position to impart heat to the receptacle and the product therein, and electrically actuated



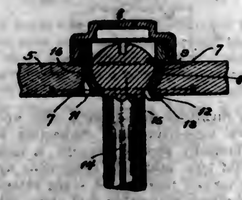
means for releasing said heater to cause it to move away from the receptacle when the heat rises above a predetermined degree.

1,399,697. STAYBOLT STRUCTURE. ETHAN I. DODDS, Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Filed Jan. 22, 1921. Serial No. 439,150. 6 Claims. (Cl. 85—1.5.)



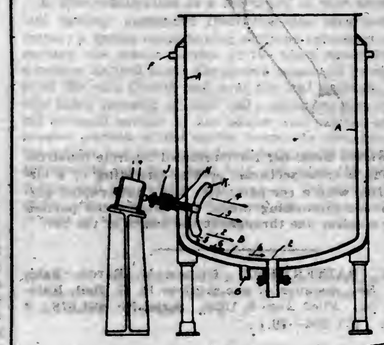
1. In a staybolt structure, the combination of a boiler sheet having an opening therein for a bearing member, the latter having a seat for a stay bolt head, an internally threaded ring having catches passing through the bearing member to engage the inner face of the boiler sheet, and a cap having an externally threaded portion to engage the internal threads on the ring.

1,399,698. STAYBOLT STRUCTURE. ETHAN I. DODDS, Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Filed Jan. 22, 1921. Serial No. 439,152. 2 Claims. (Cl. 85—1.5.)



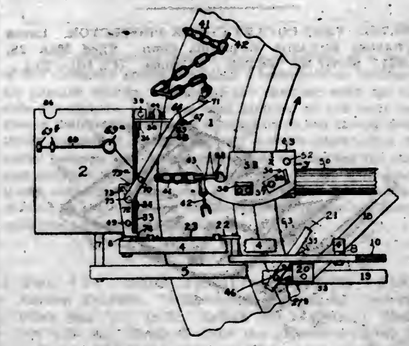
1. In a staybolt structure, the combination of a boiler sheet having a concave opening the inner end of the wall of said opening being cut away at a plurality of points, a bearing member mounted in said opening and provided with hook shaped fingers adapted to be passed through said cut away portions and the bearing locked against outward displacement by turning the bearing to carry the hooked ends of the fingers under the sheet, a bolt the head of which is mounted in said bearing member, and a threaded member engaging external threads on the upper end of the bearing member and bearing against the outer surface of said boiler sheet.

1,399,699. LIQUID-AGITATING MECHANISM. MAX DONAUER, Elyria, Ohio. Filed July 1, 1920. Serial No. 393,431. 2 Claims. (Cl. 259—106.)



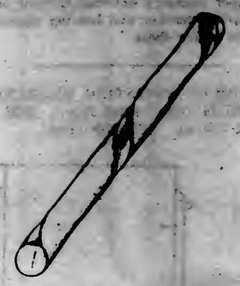
1. In a device of the class described, a fluid containing tank having curved side walls and a downwardly dished bottom wall, a propeller shaft and a pitched propeller adapted to be rotated in an inclined plane, said propeller being adapted to be rotated by the said shaft, said propeller being located so near a side wall and the bottom wall that said propeller when rotated in the proper direction will direct a portion of the fluid contents of the tank downwardly across the tank away from the propeller and at the same time hurl other portions substantially radially of the propeller but in a slightly forward direction.

1,399,700. DEVICE FOR APPLYING CHAINS TO WHEELS IN MOTION. HERBERT GROVE DORSEY, Gloucester, Mass. Filed Jan. 31, 1918. Serial No. 214,789. 14 Claims. (Cl. 152—14.)



10. Means for applying a non-skid device to a wheel in motion, combined with means to render said applying means inoperative during predetermined speed conditions.

1,399,701. TWISTED METAL BAR FOR REINFORCED CONCRETE CONSTRUCTION. Hermann Emerson Dyson, Westminster, London, England. Filed Nov. 16, 1920. Serial No. 424,495. 3 Claims. (Cl. 72—111.)



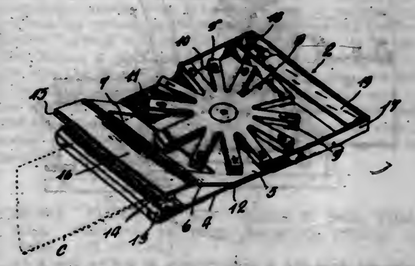
1. A twisted metal bar for reinforced concrete construction having a cross sectional profile, consisting of a circular outline with a comparatively small interrupted portion of a non-conforming plane, the interrupted portion following a spiral line throughout the length of the bar.

1,399,702. BATTERY-BOX. George M. Eaton, Bainbridge, Ga., assignor of one-third to H. G. Bell, Bainbridge, Ga. Filed Aug. 6, 1920. Serial No. 401,678. 2 Claims. (Cl. 204—29.)



1. A protector for batteries comprising a sheet metal box of a size and shape to snugly fit the battery in connection with which it is to be used, said box being open at its upper end and having recesses in the top edges of two of its walls, a closure for said box having a depending flange with recesses therein positioned to register with those in the box, and protective insulating means arranged around said recesses.

1,399,703. VEST-POCKET CHECK-PROTECTOR. Louis Charles Edwards, Effington, Conn. Filed Mar. 28, 1921. Serial No. 456,250. 8 Claims. (Cl. 101—20.)



1. A check protector comprising a pair of spaced plates between which the check is adapted to be inserted, one of said plates being formed with an opening, a rotary scanning device carried by said one plate embodying a plurality of number arms to act on the check through said opening, an elastic pad carried by one of said plates, and a perforator bar carried by the remaining plate for co-action with said elastic pad.

1,399,704. COOKING-STOVE. Jacob Eida, South Boston, Mass. Filed June 12, 1919. Serial No. 303,598. 2 Claims. (Cl. 126—1.)

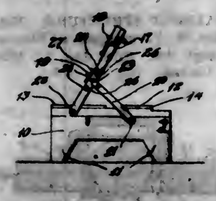


1. A cooking stove including with a bowl shaped casing having an opening in the bottom thereof, a supporting leg structure on which said bowl is mounted provided with a support for a heating element, a two-part container mounted in the bowl shaped casing and spaced therefrom, said container being adapted to be opened to give access to the interior and a flue arranged around the opening of the bowl-shaped casing to embrace a heating element supported by the legs and to direct heat therefrom through the opening of the casing to circulate around said container.

1,399,705. PROCESS FOR OBTAINING PURE TUNGSTATES. John B. Ekeley and William B. Stoddard, Boulder, Colo. Filed Aug. 7, 1917. Serial No. 184,831. 9 Claims. (Cl. 23—13.)

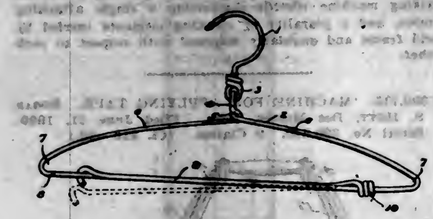
1. The process which comprises treating a solution of a tungstate to remove an element of the phosphorous group by adding a salt of an alkaline earth metal adapted to form an insoluble salt with an acid containing said element.

1,399,706. FURNITURE. Otis Ellison, Albuquerque, N. Mex.; E. J. Ellison administratrix of said Otis Ellison, deceased. Filed Oct. 7, 1918. Serial No. 257,084. 1 Claim. (Cl. 45—82.)



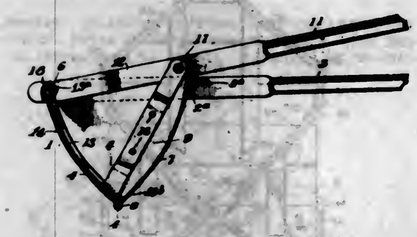
An article of furniture embodying a table and including spaced members, supporting legs connecting said spaced members and hingedly secured thereto, a rack pivotally connected to said legs, said rack comprising arms having spaced notches formed therein and studs extending therefrom, spaced members connecting said arms, said members connecting said arms, said members being foldable between the legs aforesaid and spaced connecting members to complete the table top, means to retain said members in lowered horizontal position, said supporting arms pivotally connected to said legs, a hook secured to the outer end of each of said arms to engage the stud on the first mentioned arms and hold the spaced member carried thereby in raised position to form a book rest and means comprising a connecting bar removably disposed in the spaced notches aforesaid for supporting a hook at different heights.

1,399,707. GARMENT-HANGER. Paul Salisbury Emerson, Tottenville, N. Y. Filed Sept. 13, 1920. Serial No. 409,574. 1 Claim. (Cl. 211—13.)



A garment hanger of the character described comprising a body and a hook, said body and hook portion being constructed from a single strand of wire, the body having its upper portion terminating to form a stem and having a looped end, the hook portion providing a stem which has a looped end to engage with the loop of the body, said body from the stem being extended at opposite downward inclinations providing the upper members of said body, said upper members at their outer ends being rounded upon themselves and continued inwardly in parallelism, one of said members having its ends terminating near the rounded end of the second base member and coiled thereabout, an offset hook provided on said base member at its free end to engage with one of the upper members, clamping means provided by the base member to effectively sustain a garment between said base member and the upper members.

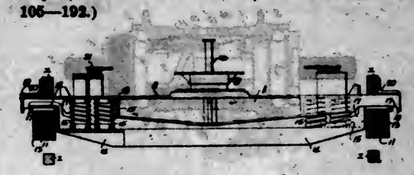
1,399,708. FOOD-PRESS. Guy W. Ferdon, Crosskill, N. J. Filed Jan. 26, 1920. Serial No. 354,185. 5 Claims. (Cl. 100—41.)



1. A lever press comprising a perforated food container having plane ends and curved perforated sides, said sides meeting at their lower edges to form a substantially V-shaped cross section, and a reinforcing bar secured to the apex of the V and serving as a guard for said apex.

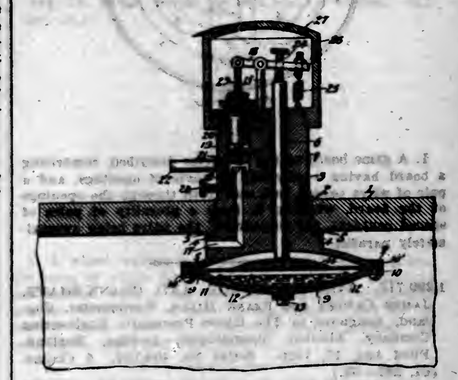
8. A lever press comprising a frame, a food container having plane end walls and curved perforated side walls secured to said frame, a pintle spanning said end walls near the outer end thereof and parallel to said side walls, a bifurcated lever pivoted on said pintle, a plunger also pivoted on said pintle, a brace connecting said lever and said plunger and a strip curved in cross section and secured to the outer curved wall of the food container and covering the crack between said pintle and the upper edge of the outer curved wall aforesaid.

1,399,709. CAR-TRUCK. Frank P. Holloway, Philadelphia, Pa., assignor to The Baldwin Locomotive Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 4, 1920. Serial No. 378,801. 2 Claims. (Cl. 105—192.)



1. The combination in a car truck, of side frames; two leaf springs suspended from the side members of the frame; a spring beam having portions extending over said springs, the center portion of the beam being depressed; a bolster located above the spring beam and extending beyond the side frames and over the leaf springs, said bolster being recessed at each end; coiled springs located in the recessed portion of the bolster and carried by the depressed portion of the spring beam, the distance between the bolster and the spring beam being such that the coiled springs will sustain a light load and when the springs are compressed the bolster will bear on the spring beam directly above the leaf springs and the entire load will be carried by the side leaf springs.

1,399,710. RELIEF-VALVE. Henry William Justus, Napanoch, N. Y. Filed Jan. 6, 1921. Serial No. 435,895. 3 Claims. (Cl. 236—64.)

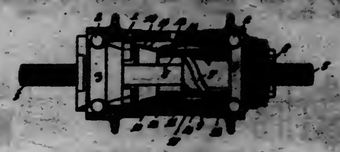


1. The combination with a steam chamber, of a device of the character stated including a body portion having an air passage therein connecting the chamber with the outside atmosphere, a spring held plunger in the body portion, a diaphragm casing, a diaphragm in the casing operatively connected to the plunger, a valve controlling the outlet passage, and means operatively connecting the valve and plunger, said means comprising a rocker arm operatively connected at one end to the valve, and a set screw carried by the other end of the rocker arm and engageable with the upper end of the plunger rod.

1,399,711. BACK-PEDALING COASTER-BRAKE. Alfred Kniehm, Frondenberg, Westphalia, Germany. Filed Mar. 17, 1915. Serial No. 14,960. 1 Claim. (Cl. 192—6.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

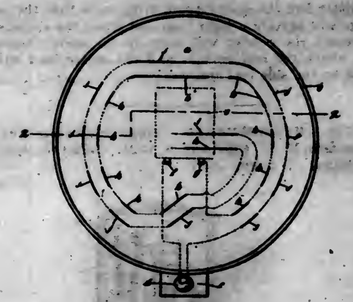
In a coaster brake comprising a clutch member provided with longitudinal grooves, a spring retarder, com-

pulsing springs mounted in said grooves and held in place by a cup shaped member at one end of the clutch member,



the other ends of the springs having a surface in contact with a non-rotative member of the brake.

1,399,712. ELECTRICAL AMUSEMENT APPARATUS. SAMUEL JOSEPH LEVI, London, England. Filed Jan. 30, 1920. Serial No. 355,257. 3 Claims. (Cl. 46—61.)



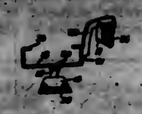
1. A game board of the character described, comprising a board having a plurality of parts of openings, and a pair of wires passed back and forth through the openings of the board, whereby to form a plurality of pairs of spaced contacts, the contacts of the pairs being approximately parallel.

1,399,713. CONNECTING-ROD AND CRANK-SHAFT. JAMES CAWLEY and FRANK HILLS, Westminster, England, assignors to The Globe Pneumatic Engineering Company, Limited, Westminster, London, England. Filed Aug. 17, 1920. Serial No. 404,192. 5 Claims. (Cl. 287—93.)



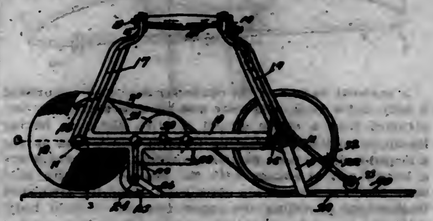
1. An assembling device for connecting rods and crank shafts, consisting in the combination of an annular big end formed with a lateral opening, the width of which is just sufficient to enable the said big end to be passed laterally over the crank pin, and the internal diameter of the said annular big end is greater than the diameter of the said crank pin to provide an annular space between these parts when assembled, and means adapted to be introduced into said annular space for retaining the said annular big end in position on the said crank pin.

1,399,714. BRUSH FOR TALKING-MACHINE RECORDS. JOSEPH P. SCHEID and WILHELM ROSSI, Brooklyn, N. Y. Filed Feb. 1, 1921. Serial No. 441,933. 5 Claims. (Cl. 274—1.)



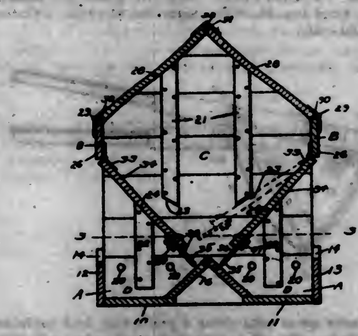
1. As an article of manufacture, a cleaning device for talking machine records comprising a single attaching frame, and a plurality of cleaning elements carried by said frame and angularly disposed with respect to each other.

1,399,715. MACHINE FOR APPLYING TAPE. EDGAR S. HOYT, Des Moines, Iowa. Filed June 21, 1920. Serial No. 390,640. 9 Claims. (Cl. 216—20.)



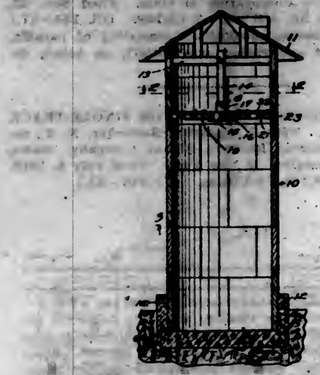
1. In a portable tape applying machine, a frame supporting rollers thereon, a tape smoother member movably mounted on said frame, a spool on said frame, a moistener device interposed between said smoother member and said spool and a device for imparting tension to said smoother member.

1,399,716. SECTIONAL HOG-FEEDER. LIELS L. RINDE, Greenville, Iowa. Filed July 19, 1920. Serial No. 397,280. 4 Claims. (Cl. 119—53.)



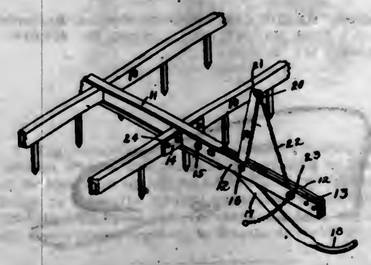
1. A feeder for swine comprising a base having a pair of feed troughs therein, and a dividing member fixed therebetween, a pair of end wall members adapted to be detachably fixed to said base, and a pair of combined top and side members, said side members being capable of slight pivotal movement, whereby feed within the feeder may be agitated, combined reinforcing cleats and stop devices fixed to the end members for limiting the pivotal movement of the side members and for reinforcing the end members, said combined cleats and stop members being designed to have the edge of the side members received therebetween and have their adjacent surfaces beveled so that the upper and lower edges overlap for forming a continuous reinforcing cleat, and an adjustable feed control board fixed to the lower ends of each of said side members, whereby the flow of feed into the troughs may be regulated.

1,399,717. SILO-TRUING DEVICE. JOSEPH A. DREW, Cascade, Iowa. Filed Sept. 20, 1920. Serial No. 411,572. 2 Claims. (Cl. 20—1.4.)



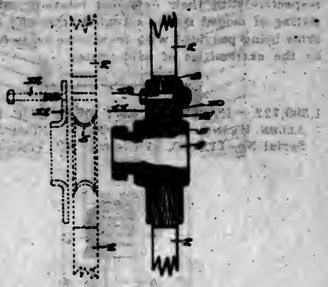
1. A silo truing device comprising a center member having a plurality of sockets formed therein, a plurality of arms having one end selectively received in said sockets and adapted to extend radially from said center member, wall engaging members adapted to rest against the inner surface of the silo wall mounted on the free end of each of said arms, and means whereby said wall engaging members may be moved relative to said arms, said means including a screw-threaded member formed on the end of said arm and partially received in said wall engaging member, a nut on said screw-threaded member whereby the wall engaging member may be forced outwardly away from said arm, and means operatively connected to said arm and said wall engaging member for preventing twisting of the wall engaging member.

1,399,718. HARROW LIFTING AND CLEARING DEVICE. PETER H. THIM, Renwick, Iowa. Filed May 23, 1921. Serial No. 471,871. 4 Claims. (Cl. 55—34.)



2. In a device of the class described, the combination of a harrow section with a lifting and clearing device, comprising a member fixed to the rear portion of said section, a member pivoted to said first member and adapted to slide on the ground rearwardly of its pivot point and having an upward extension, a guide element on said first member near the rear portion thereon, and a flexible device connected with said upper extension and extended to and around said guide device.

1,399,719. WHEEL FOR AUTOMOBILES. CHARLES GILBERT HAWLEY, Chicago, Ill., assignor to Baker Wheel & Rim Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 9, 1920. Serial No. 357,440. 4 Claims. (Cl. 301—65.)



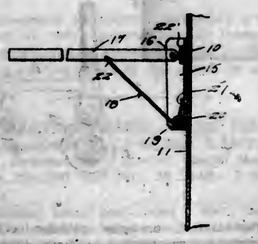
1. The combination with a wheel provided with a complement of wooden spokes having butts which form a hub center, and provided with a hub-hole extending through the spoke butts, of a hub adapted for insertion through said hub-hole, and a member contacting the extreme inner ends of said spokes, and affording substantially a single-line bearing for said hub.

1,399,720. WHEEL FOR AUTOMOBILES. ERLE KING BAKER, Chicago, Ill., assignor to Baker Wheel & Rim Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 20, 1921. Serial No. 493,775. 4 Claims. (Cl. 301—9.)



1. A wheel having a complement of wooden spokes, the butts of which form the hub-center of the wheel, in combination with a metallic centering and reinforcing member comprising an outer facing flange 5 and an expanded tubular portion, 5', between which portions the ends of the spoke butts are clamped.

1,399,721. CLOTHES-DRIER FOR HOT-WATER BOILERS. BERNARD LEAHY, Woodside, N. Y. Filed Feb. 2, 1921. Serial No. 441,925. 2 Claims. (Cl. 126—341.)



1. A drying rack for attachment to a hot water boiler having a boiler encircling strap or band and means for

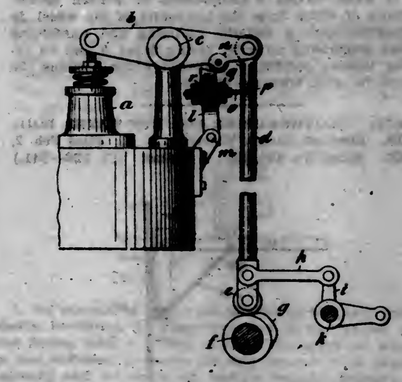
applying tension thereto to tightly embrace the bottle, having bolts threaded upon said strap or band for adjustment longitudinally thereof, drying arms pivotally mounted upon said bands for swinging movement in a vertical plane, and foldable braces for steadying the arms respectively in their extended relation, said braces consisting of looped spring actuated arms and the supporting arms being provided with transverse seats for engagement by the extremities of said braces.

1,399,722. INCANDESCENT ELECTRIC LAMP. JOHN ALLEN HEANY, New York, N. Y. Filed July 29, 1916. Serial No. 111,697. 1 Claim. (Cl. 176—131.)



The process of making a glower for incandescent electric lamps, which consists in molding into desired shape a plastic mass of highly refractory material, treating said mass to produce a strong porous body, impregnating the said body with a solution of a metallic compound, the metal of which incandesces at the temperature at which platinum volatilizes, and then reducing the compound to metal by heating the glower in the presence of hydrogen.

1,399,723. INTERNAL-COMBUSTION ENGINE, WHICH MAY BE DIRECTLY REVERSED. HANS HENRIK BLACHE, Hellerup, near Copenhagen, Denmark. Filed Sept. 10, 1920. Serial No. 409,470. 7 Claims. (Cl. 123—41.)

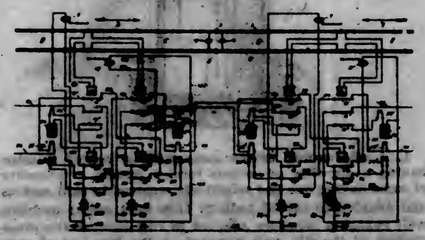


1. In combination, an engine cylinder having a blow-off valve; a reversing mechanism; a lever connected to control said valve; a roller on said lever; and a movable device connected to be shifted automatically by said mechanism during the reversing operation and shaft engageable with said roller at each limit to move said lever and thereby open the valve.

1,399,724. WATERPROOFING COMPOSITION. OTTO H. BRADTKE and MILES H. OSBURN, Akron, Ohio, assignors to The Waterise Chemical and Manufacturing Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 22, 1919. Serial No. 339,266. 2 Claims. (Cl. 134—17.)

1. A waterproofing composition consisting of paraffin, gasolene, benzol and rubber, substantially as herein described.

1,399,725. SIGNALING SYSTEM FOR SINGLE-TRACK RAILROADS. NEIL D. PEARCE, Rochester, N. Y., assignor to General Railway Signal Company, Gates, N. Y., a Corporation of New York. Filed July 8, 1916. Serial No. 108,184. 6 Claims. (Cl. 246—33.)



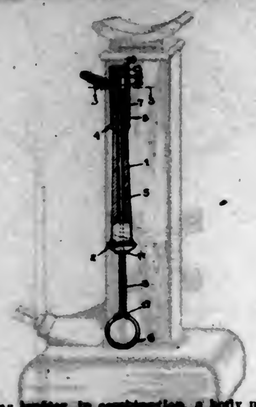
4. In a signaling system for railroads, in combination: a stretch of track divided into track circuit sections; a signal for governing traffic over said stretch; a circuit controlling device tending to assume an operated condition when said signal moves from one position to another position, said device after being operated being held in its operated position so long as said signal remains in its moved position; means for preventing the operation of said device by said signal; means governed by a track circuit section adjacent to said signal for rendering said means ineffective; and means for signaling controlled by said device.

1,399,726. HEADWEAR. SAMUEL WERNER, Rutherford, N. J. Filed Mar. 21, 1921. Serial No. 454,018. 2 Claims. (Cl. 2—106.)



1. A cap having a slit in the edge thereof to allow for contraction and expansion to different head sizes and having a flap at one side of said slit provided with a series of openings and double flaps at the opposite side of the slit forming a pocket to receive the apertured flap and a fastening having complemental parts carried by the double flaps and arranged to pass through any selected one of the openings in the apertured flap.

1,399,727. IGNITER. JOSEPH A. KLEIN, Astoria, N. Y., assignor to Emily Berthold, Jamaica, N. Y. Filed Apr. 22, 1921. Serial No. 463,501. 2 Claims. (Cl. 67—19.)



1. In a gas igniter, in combination, a body member having an axial orifice, a cylinder extended at one end of said member, a rod of greater length than said member loosely entered in the axial orifice thereof, a perforated, closed casing, an igniting element therein, said casing being carried by said rod at one end thereof, and fitting within said cylinder to close its orifice, a handle at the other end of said rod, and a helical spring upon said rod, said spring lying between said handle and body member, and serving to extend said rod to thereby hold said casing normally ensheathed within said cylinder.

REISSUES.

15,242. SHEET-FOLDING MACHINE. ALLISON M. MACFARLAND, Williamsburg, Pa., assignor to Leo M. Kohn, Buffalo, N. Y. Filed Aug. 5, 1921. Serial No. 490,149. Original No. 1,313,713, dated Aug. 19, 1919, Serial No. 90,739, filed Apr. 12, 1916. 111 Claims. (Cl. 270—81.)

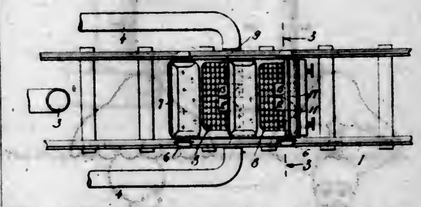


1. The combination of a mechanism for folding sheets of different lengths, and mechanism controlled by the length of the sheets for timing the actuation of the folding mechanism to cause the folding mechanism to fold sheets of different lengths at different distances from the ends of the sheets proportional to the lengths of the sheets.

15,243. MOTOR-VEHICLE. CHARLES M. MANLY, Buffalo, N. Y. Filed May 31, 1918. Serial No. 237,600. Original No. 1,179,336, dated Apr. 18, 1916, Serial No. 606,613, filed Feb. 4, 1911. 10 Claims. (Cl. 180—17.)

1. In a motor vehicle, the combination of a plurality of independently rotatable driving wheels, a plurality of separate hydraulic motors, a separate fluid pressure generating element for each of said motors, connections between each motor and its generating element and adjustable to establish communication between the connections of said separate motors as desired.

15,244. AMUSEMENT APPARATUS. HYLA FREDERICK MAYNES, Gaines, Pa., assignor of one-half to Emma C. Maynes, Gaines, Pa. Filed Aug. 15, 1921. Serial No. 492,510. Original No. 1,361,476, dated Dec. 7, 1920, Serial No. 402,638, filed Aug. 10, 1920. 17 Claims. (Cl. 104—53.)

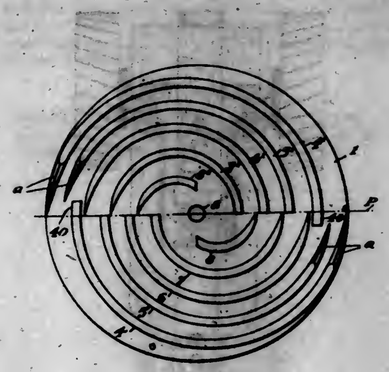


1. An amusement apparatus, comprising a trackway, a car designed to carry passengers and adapted to run upon the trackway, and means situated on the trackway for causing a current of air to rise openly in said car.

15,245. POLISHING-WHEEL. DANIEL FREDERICK MCGOVERN, Montpelier, Vt. Filed Nov. 3, 1919. Serial No. 335,522. Original No. 1,296,985, dated Mar. 11, 1919, Serial No. 264,230, filed Nov. 26, 1918. 7 Claims. (Cl. 51—209.)

1. A polishing wheel comprising a plate having on its working face duplicate sets of symmetrically arranged semicircular flanges disposed on opposite sides of a plane passing transversely of the plate, the rear end of the

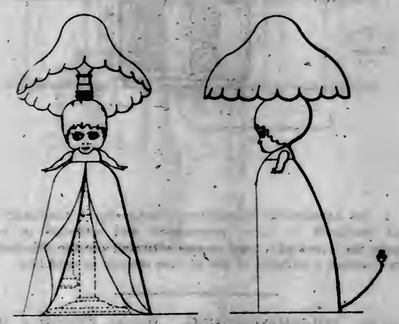
outermost flange of each set extending beyond said plane and overlapping the forward end of a flange of the



opposite set and constituting a choker effective to prevent the abrasive spilling out.

DESIGNS.

59,882. COMBINED TELEPHONE-COVER AND LAMP-STAND. HARRY C. ATHERLEY and JAMES E. ATHERLEY, San Francisco, Calif. Filed Sept. 2, 1920. Serial No. 407,807. Term of patent 7 years.



The ornamental design for a combined telephone cover and lamp stand, substantially as shown.

59,883. LIFTING-JACK. TRUE M. AVERY, Glens Falls, N. Y. Filed Dec. 29, 1920. Serial No. 432,626. Term of patent 14 years.



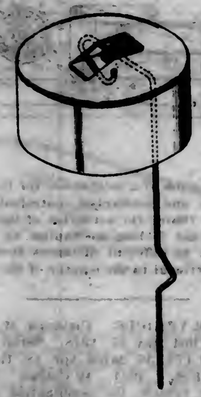
The ornamental design for a lifting jack, as shown.

59,884. LEATHER. CARL BRANDT, Boston, Mass., assignor to Winslow Bros. & Smith Co., Boston, Mass., a Corporation of Massachusetts. Filed Sept. 2, 1921. Serial No. 496,130. Term of patent 7 years.



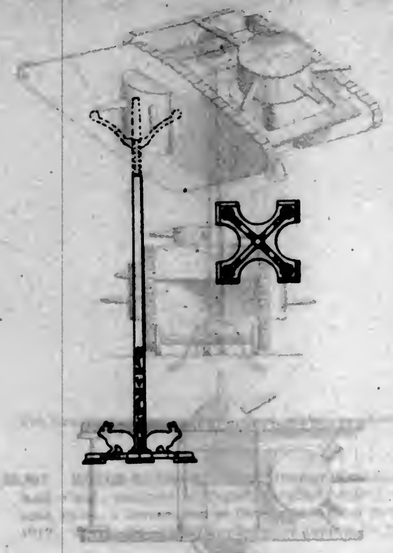
The ornamental design for leather, as shown.

59,885. PLANT-PROTECTOR. WILLIAM C. CLARK and EDWARD C. CLARK, Wellston, and LOUIS WEHRHEIM, St. Louis, Mo. Filed Feb. 25, 1921. Serial No. 447,887. Term of patent 7 years.



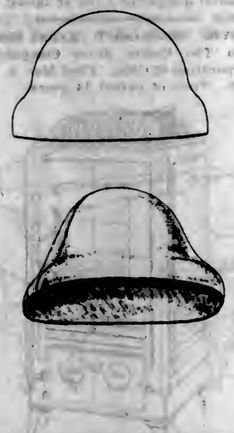
The ornamental design for a plant protector, substantially as shown.

59,886. COSTUMER. RICHARD C. HART, Evanston, Ill. Filed May 12, 1921. Serial No. 469,963. Term of patent 7 years.



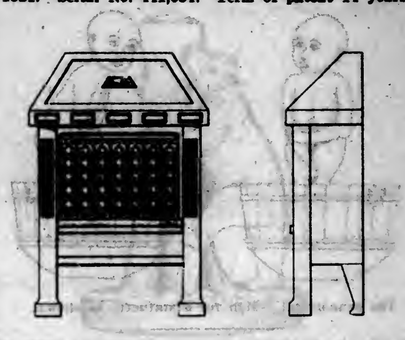
The ornamental design for a costumer as shown.

59,887. BLANK FOR CHANGEABLE-SHAPE SPORT-HATS. ALIDA GRACE FREEMAN, Great Neck, N. Y. Filed Apr. 7, 1921. Serial No. 459,480. Term of patent 7 years.



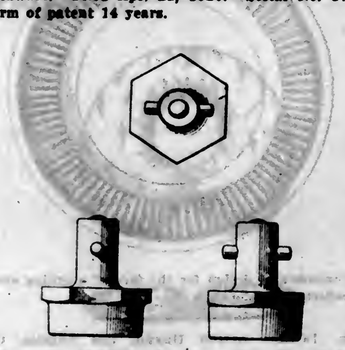
The ornamental design for a blank for changeable shape sport hats, as shown.

59,888. GAS-HEATER. JOHN H. GRAYSON, Athens, Ohio, assignor to The J. H. Grayson Manufacturing Company, Athens, Ohio, a Corporation of Ohio. Filed Jan. 29, 1921. Serial No. 441,054. Term of patent 14 years.



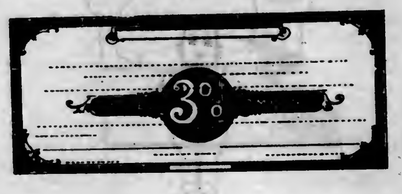
The ornamental design for a gas heater, as shown.

59,889. LUBRICATOR-NIPPLE. ARTHUR V. GULLBORG, Chicago, Ill., assignor, by mesne assignments, to The Bassick Manufacturing Company, a Corporation of Delaware. Filed Apr. 21, 1920. Serial No. 375,637. Term of patent 14 years.



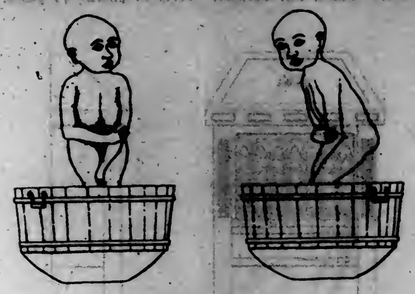
The ornamental design for a lubricator nipple as shown.

59,890. COUPON. ROBERT E. HALL, Jr., Tifton, Ga. Filed Apr. 25, 1921. Serial No. 464,471. Term of patent 7 years.



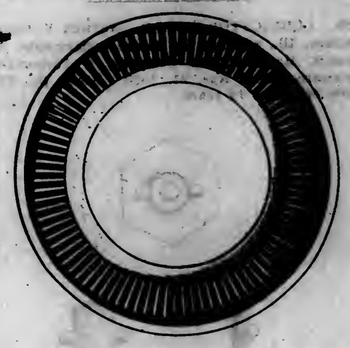
The ornamental design for a coupon as shown.

59,891. STATUETTE. Blanche Hibbert, Mount Clair, Colo. Filed Aug. 6, 1921. Serial No. 490,419. Term of patent 3½ years.



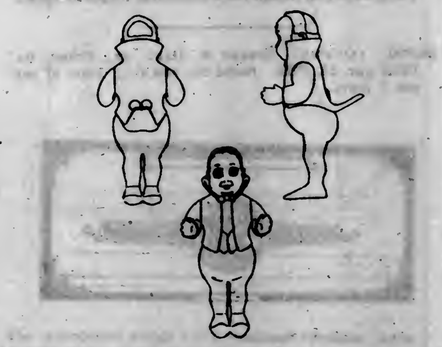
The ornamental design for a statuette as shown.

59,892. FACE OF A CEILING ELECTRIC-LIGHT REFLECTOR. John W. Hancock, Denver, Colo. Filed Jan. 15, 1921. Serial No. 437,506. Term of patent 7 years.



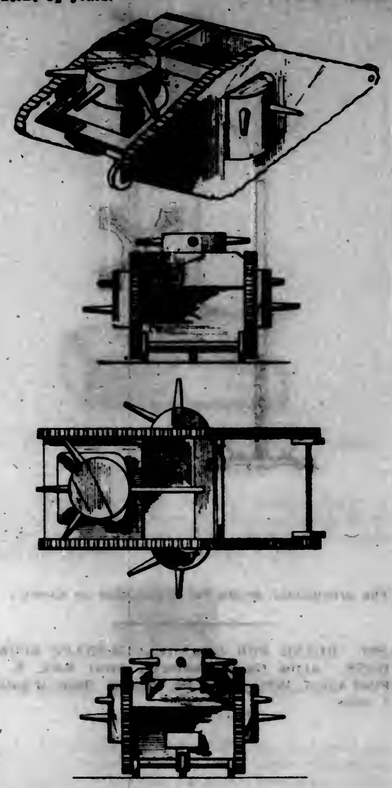
The ornamental design for the face of a ceiling electric light reflector, as shown.

59,893. DOLL. Almon Heath, Los Angeles, Calif. Filed Nov. 20, 1920. Serial No. 425,569. Term of patent 14 years.



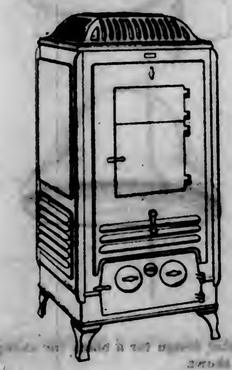
The ornamental design for a doll, substantially as shown.

59,894. TOY. Stanley N. Stovall, Mount Lebanon, N. Y. Filed Aug. 26, 1920. Serial No. 406,944. Term of patent 3½ years.



The ornamental design for a toy as shown.

59,895. STOVE. Bertrand B. Kahn, Hamilton, Ohio, assignor to The Estate Stove Company, Hamilton, Ohio, a Corporation of Ohio. Filed Mar. 5, 1921. Serial No. 450,108. Term of patent 14 years.



The ornamental design for a stove as shown.

59,896. CLOCK-STAND. Henry J. Kane, Fairbanks, Miss. Filed Apr. 25, 1921. Serial No. 464,472. Term of patent 3½ years.



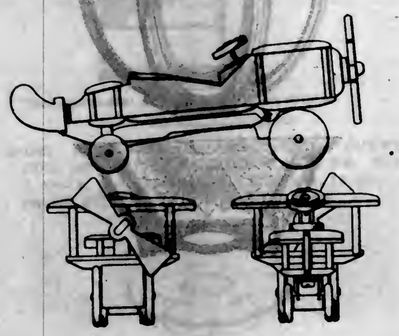
The ornamental design for a clock stand, as shown.

59,897. MOTOR-BONNET. Isaac Judson Kelly, Oakland, Calif., assignor to Fageol Motors Company, Oakland, Calif., a Corporation of California. Filed Nov. 19, 1919. Serial No. 339,172. Term of patent 14 years.



The ornamental design for a motor bonnet as shown.

59,898. TOY RUNABOUT. Harry V. Kiely, Brooklyn, N. Y. Filed July 25, 1921. Serial No. 487,558. Term of patent 7 years.



The ornamental design for a toy runabout, substantially as shown.

59,899. INCENSE-BURNER OR CANDLESTICK. Monsia L. Koelsaan, Denver, Colo. Filed June 2, 1921. Serial No. 474,872. Term of patent 3½ years.



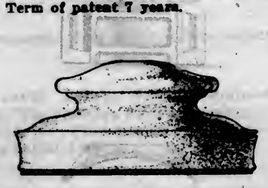
The ornamental design of an incense burner or candlestick, as shown.

59,900. SEAT-CUSHION. Ernest S. Marsh, Ypsilanti, Mich. Filed Mar. 25, 1921. Serial No. 455,656. Term of patent 3½ years.



The ornamental design for a seat cushion, as shown.

59,901. HOLDER FOR LIGHTING-FIXTURES. Frederick W. Mathieu, New York, N. Y., assignor to Mitchell Vance Co., Inc., New York, N. Y., a Corporation of New York. Filed Apr. 7, 1920. Serial No. 372,083. Term of patent 7 years.



The ornamental design for a holder for lighting fixtures, as shown.

59,902. HOLDER FOR LIGHTING FIXTURES. Fredrick W. Mathieu, New York, N. Y., assignor to Mitchell Vance Co., Inc., New York, N. Y., a Corporation of New York. Filed Apr. 7, 1920. Serial No. 372,064. Term of patent 7 years.



The ornamental design for a holder for lighting fixtures, as shown.

59,903. EMBLEM, PIN, BADGE, OR SIMILAR ARTICLE. George McCaul, Portsmouth, Va. Filed May 23, 1921. Serial No. 471,984. Term of patent 14 years.



The ornamental design for an emblem, pin, badge, or similar article as shown.

59,904. TREAD-LINK FOR TIRES. Raleigh McCormick, St. Louis, Mo. Filed July 16, 1921. Serial No. 485,307. Term of patent 14 years.



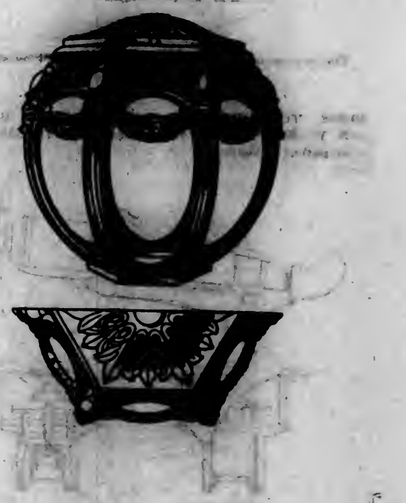
The ornamental design for a tread link for tires, as shown.

59,905. BADGE. Norman H. McSwain, Washington, D. C., assignor to Alpha Phi Alpha Fraternity, a Corporation of the District of Columbia. Filed Dec. 20, 1920. Serial No. 432,114. Term of patent 7 years.



The ornamental design for a badge, as shown.

59,906. FRAME FOR LANTERNS. Paul Mohrmann, Chicago, Ill., assignor to Friedley-Voshardt Co., Chicago, Ill., a Corporation of Illinois. Filed Apr. 2, 1921. Serial No. 458,041. Term of patent 7 years.



The ornamental design for a frame for lanterns, as shown.

59,907. SEAT. Simon P. Nissley, Chicago, Ill. Filed July 20, 1921. Serial No. 486,276. Term of patent 7 years.



The ornamental design for a seat, as shown.

59,908. TOY. Simon P. Nissley, Chicago, Ill. Filed July 20, 1921. Serial No. 486,277. Term of patent 7 years.



The ornamental design for a toy, as shown.

59,909. MEDICINAL TABLET, CANDY, CHEWING-GUM, OR ARTICLE OF SIMILAR NATURE. Edward J. Noble, Port Chester, N. Y. Filed Mar. 11, 1921. Serial No. 451,576. Term of patent 14 years.



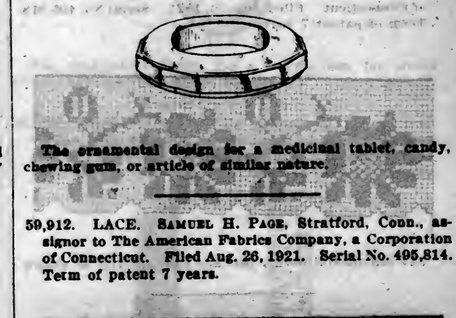
The ornamental design for a medicinal tablet, candy, chewing gum, or article of similar nature.

59,910. MEDICINAL TABLET, CANDY, CHEWING-GUM, OR ARTICLE OF SIMILAR NATURE. Edward J. Noble, Port Chester, N. Y. Filed Mar. 11, 1921. Serial No. 451,577. Term of patent 14 years.



The ornamental design for a medicinal tablet, candy, chewing gum, or article of similar nature.

59,911. MEDICINAL TABLET, CANDY, CHEWING-GUM, OR ARTICLE OF SIMILAR NATURE. Edward J. Noble, Port Chester, N. Y. Filed Mar. 11, 1921. Serial No. 451,578. Term of patent 14 years.



The ornamental design for a medicinal tablet, candy, chewing gum, or article of similar nature.

59,912. LACE. Samuel H. Page, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed Aug. 26, 1921. Serial No. 495,814. Term of patent 7 years.



The ornamental design for lace substantially as shown.

59,913. LACE. Samuel H. Page, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed Aug. 26, 1921. Serial No. 495,815. Term of patent 7 years.



The ornamental design for lace substantially as shown.

59,914. LACE. Samuel H. Page, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed Aug. 26, 1921. Serial No. 495,816. Term of patent 7 years.



The ornamental design for lace substantially as shown.

59,915. LACE. SAMUEL H. PAGE, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed Aug. 26, 1921. Serial No. 495,817. Term of patent 7 years.



The ornamental design for lace substantially as shown.

59,916. LACE. SAMUEL H. PAGE, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed Aug. 26, 1921. Serial No. 495,818. Term of patent 7 years.



The ornamental design for lace substantially as shown.

59,917. LACE. SAMUEL H. PAGE, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed Aug. 26, 1921. Serial No. 495,819. Term of patent 7 years.



The ornamental design for lace substantially as shown.

59,918. LACE. SAMUEL H. PAGE, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed Aug. 26, 1921. Serial No. 495,820. Term of patent 7 years.



The ornamental design for lace substantially as shown.

59,919. LACE. SAMUEL H. PAGE, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed Aug. 26, 1921. Serial No. 495,821. Term of patent 7 years.



The ornamental design for lace substantially as shown.

59,920. HANDLE. NICHOLAS A. PETRY, Philadelphia, Pa. Filed Dec. 30, 1920. Serial No. 434,146. Term of patent 14 years.



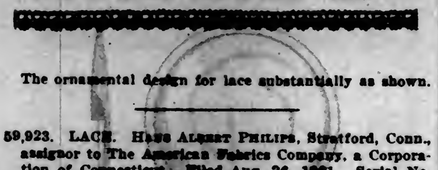
The ornamental design for a handle, substantially as shown.

59,921. LACE. HANS ALBERT PHILIPS, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed Aug. 26, 1921. Serial No. 495,823. Term of patent 7 years.



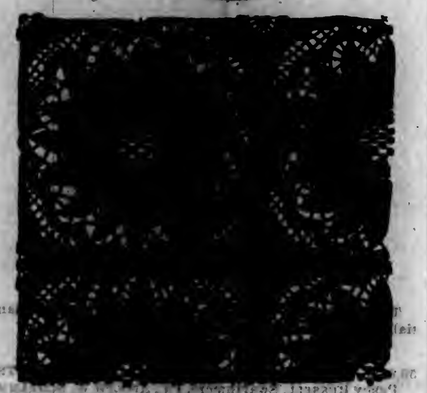
The ornamental design for lace substantially as shown.

59,922. LACE. HANS ALBERT PHILIPS, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed Aug. 26, 1921. Serial No. 495,824. Term of patent 7 years.



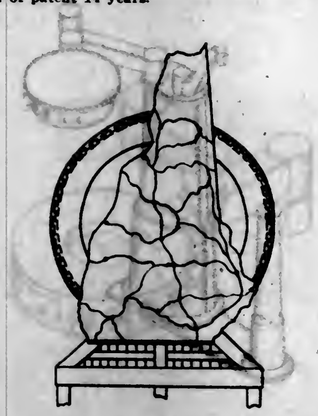
The ornamental design for lace substantially as shown.

59,923. LACE. HANS ALBERT PHILIPS, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed Aug. 26, 1921. Serial No. 495,825. Term of patent 7 years.



The ornamental design for lace substantially as shown.

59,924. TOURIST GUIDE-BOARD. EDGAR MINOT QUINT, Concord, N. H. Filed Dec. 21, 1920. Serial No. 432,367. Term of patent 14 years.



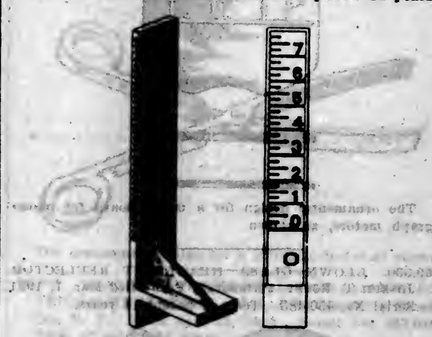
The ornamental design for a tourist guide board, as shown and described.

59,925. HANDLE-CAP FOR WHISK-BROOMS AND KINDRED ARTICLES. ANDREW C. RAGNAR, Oakville, Conn., assignor to The Chase Companies Inc., Waterbury, Conn., a Corporation. Filed Nov. 26, 1920. Serial No. 426,660. Term of patent 14 years.



The ornamental design for a handle cap for whisk brooms and kindred articles, as shown.

59,926. ELEVATION-SCALE. ANDREW T. RICHARDSON, Verona, Pa., assignor to Verona Tool Works, Verona, Pa., a Corporation of Pennsylvania. Filed July 29, 1921. Serial No. 486,488. Term of patent 14 years.



The ornamental design for an elevation scale, as shown.

59,927. INSPECTOR'S TRACK LEVEL AND GAGE. ANDREW T. RICHARDSON, Verona, Pa., assignor to Verona Tool Works, Verona, Pa., a Corporation of Pennsylvania. Filed Aug. 2, 1921. Serial No. 489,395. Term of patent 14 years.



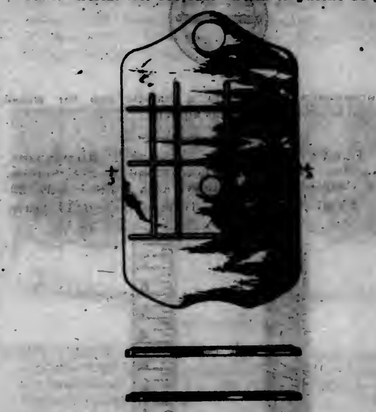
The ornamental design for an inspector's track level and gage, as shown.

59,928. CHARM. EMMA BERTHA RIEGEL, Brooklyn, N. Y., assignor to Macoy Publishing & Masonic Supply Co., New York, N. Y., a Corporation of New York. Filed Sept. 22, 1921. Serial No. 502,570. Term of patent 7 years.



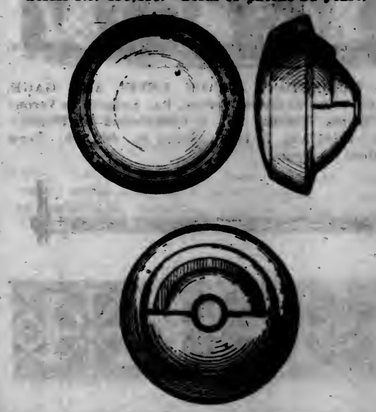
The ornamental design for a charm, as shown.

59,929. MOTOR-BOARD FOR PHONOGRAPH-MOTORS. THEODORE C. ROSSMAN, New York, N. Y., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn., a Corporation of Delaware. Filed May 5, 1921. Serial No. 467,212. Term of patent 14 years.



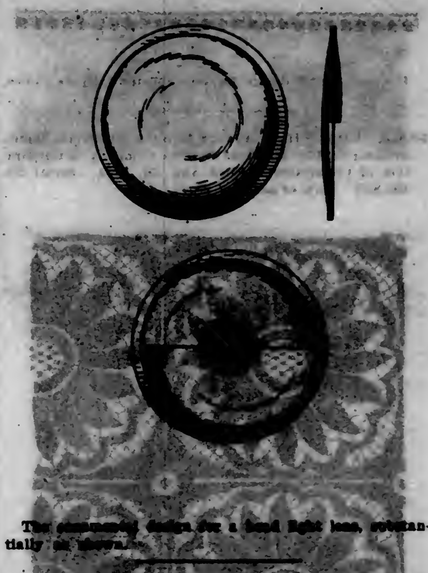
The ornamental design for a motor board for phonograph motors, as shown.

59,930. BLOWN-GLASS HEADLIGHT-REFLECTOR. JOSEPH T. ROSYY, Pittsburgh, Pa. Filed Mar. 7, 1921. Serial No. 450,433. Term of patent 14 years.



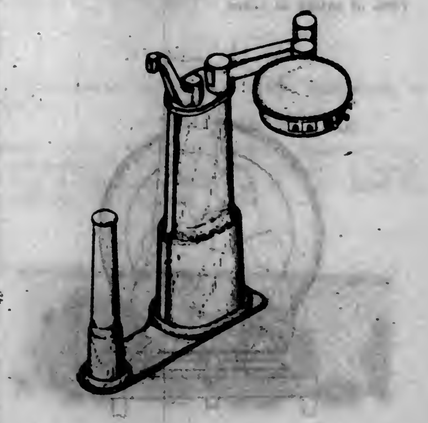
The ornamental design for a blow glass headlight reflector, substantially as shown.

59,931. HEADLIGHT-LENS. JOSEPH T. ROSYY, Pittsburgh, Pa. Filed Mar. 7, 1921. Serial No. 450,434. Term of patent 14 years.



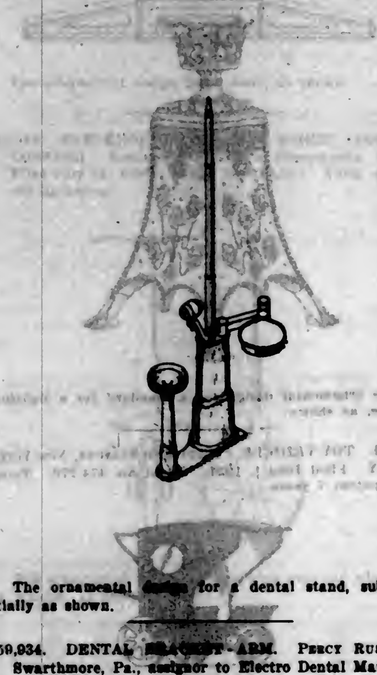
The ornamental design for a head light lens, substantially as shown.

59,932. PEDESTAL FOR DENTAL IMPLEMENTS. PERCY RUSSELL, Swarthmore, Pa., ADOLPH W. SCHRAMM, Riverton, N. J., and ROBERT S. WOODWARD, JR., Haverford, Pa., assignors to Electro Dental Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 29, 1920. Serial No. 420,557. Term of patent 7 years.



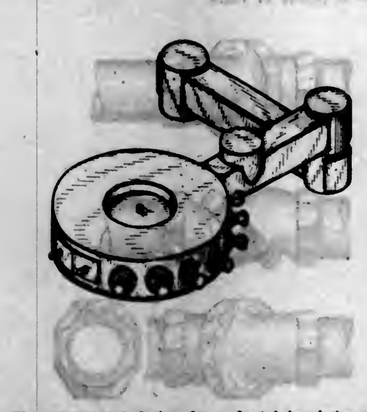
The ornamental design for a pedestal for dental implements, substantially as shown.

59,933. DENTAL STAND. PERCY RUSSELL, Swarthmore, Pa., ADOLPH W. SCHRAMM, Riverton, N. J., and ROBERT S. WOODWARD, JR., Haverford, Pa., assignors to Electro Dental Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 29, 1920. Serial No. 420,558. Term of patent 7 years.



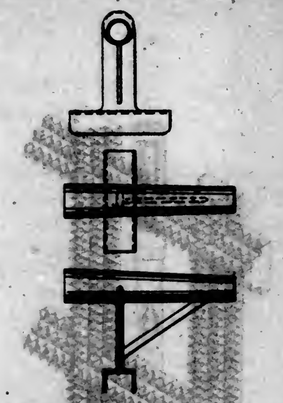
The ornamental design for a dental stand, substantially as shown.

59,934. DENTAL BRACKET-ARM. PERCY RUSSELL, Swarthmore, Pa., assignor to Electro Dental Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 29, 1920. Serial No. 420,559. Term of patent 7 years.



The ornamental design for a dental bracket arm, substantially as shown.

59,935. SLEIGH-KNEE FOR HEAVY VEHICLES. JOSEPH F. SCHMIDT, Walters, Minn. Filed Jan. 8, 1921. Serial No. 435,997. Term of patent 7 years.



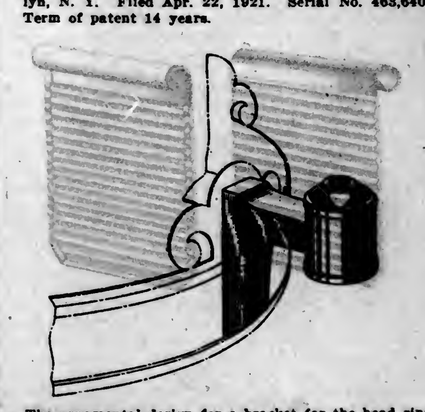
The ornamental design for a sleigh knee for heavy vehicles, as shown and described.

59,936. GRIPPING DEVICE. GEORGE G. SEHER, Philadelphia, Pa. Filed May 14, 1920. Serial No. 381,482. Term of patent 3½ years.



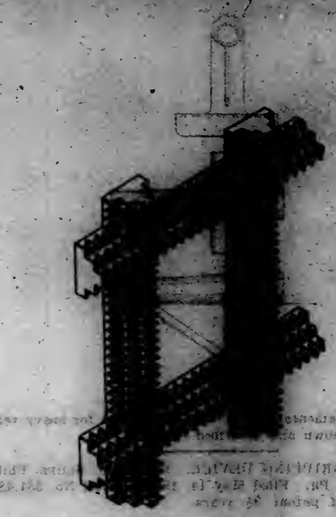
The ornamental design for a gripping device as shown.

59,937. BRACKET FOR THE HEAD-RING OF AN ELECTRIC-LIGHT FIXTURE. HYMAN SHLAMOWITZ, Brooklyn, N. Y. Filed Apr. 22, 1921. Serial No. 463,640. Term of patent 14 years.



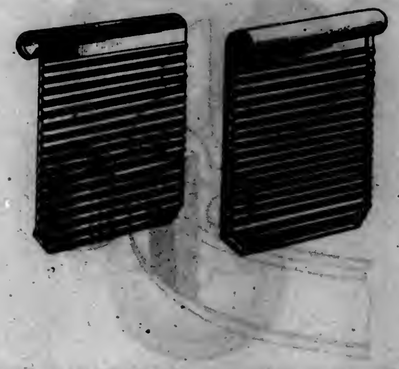
The ornamental design for a bracket for the head ring of an electric light fixture, as shown.

59,938. PICTURE-FRAME. [illegible], Detroit, Mich. Filed Nov. [illegible], 1920. Serial No. [illegible]. Term of patent 3½ years.



The ornamental design for a picture frame as shown.

59,939. LAUNDRY-RUBBER. Fred W. Strait, Atchison, Kans. Filed Dec. 13, 1920. Serial No. 430,362. Term of patent 7 years.



The ornamental design for a laundry rubber as shown.

59,940. STANDARD FOR A LIGHTING FIXTURE. [illegible], assignor to [illegible], New York, N. Y., a Corporation of New York. Filed Dec. 28, 1920. Serial No. 430,534. Term of patent 7 years.



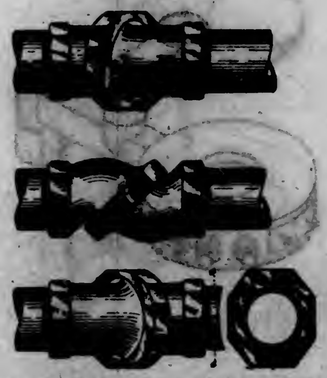
The ornamental design for a standard for a lighting fixture, as shown.

59,941. TOY VEHICLE. Ferdinand Strauss, New York, N. Y. Filed June 1, 1921. Serial No. 474,276. Term of patent 7 years.



The ornamental design for a toy vehicle, as shown.

59,942. PIPE-COUPLING. David M. Tulloch, Dunellen, N. J. Filed Oct. 25, 1921. Serial No. 510,368. Term of patent 14 years.



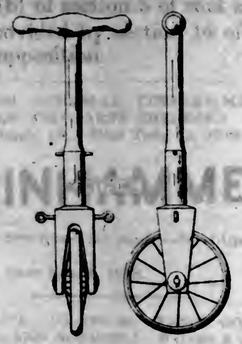
The ornamental design for a pipe coupling, as shown.

59,943. LEVEL. Donald C. Watson, Weston, Mass., assignor to Universal Boring Machine Company, Hudson, Mass., a Corporation of Massachusetts. Filed July 5, 1921. Serial No. 482,604. Term of patent 3½ years.



The ornamental design for a level, as shown.

59,944. STEERING POST AND WHEEL FOR A COASTER. Lisle C. Williams, Minneapolis, Minn. Filed July 11, 1919. Serial No. 310,283. Term of patent 3½ years.



The ornamental design for a steering post and wheel for a coaster, as shown.

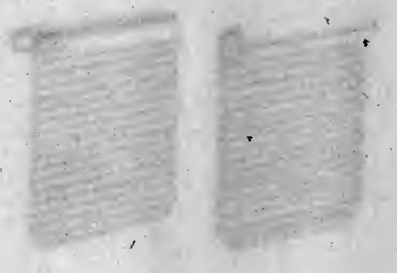
59,945. COMBINATION FOUNTAIN-PEN AND PENCIL. Stanislaw Zdanowics, Aquebogue, N. Y. Filed May 26, 1921. Serial No. 472,017. Term of patent 14 years.



The ornamental design for a combination fountain pen and pencil as shown.









TRADE-MARKS

OFFICIAL GAZETTE, DECEMBER 6, 1921.

[PUBLISHED DECEMBER 6, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 119,531. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ARTHUR E. MEYER, Chicago, Ill. Filed June 12, 1919.

SPIN-HAMMER

Particular description of goods.—Rivet-Upsetting Machines.

Claims use since Nov. 1, 1918.

Ser. No. 121,072. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WALDES & Co., Prague, Bohemia, assignor to Waldes & Co. Inc., a Corporation of New York. Filed July 29, 1919.

RIVAL

Particular description of goods.—Snap-Fasteners.

Claims use since Apr. 14, 1919.

Ser. No. 121,110. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE FAIRBANKS COMPANY, New York, N. Y. Filed July 30, 1919.

FAIRBANKS O.K.

Consisting of the word "Fairbanks" in white upon an octagonal blue ground underscored by a white line and the letters "O. K." upon a white octagonal panel outlined in blue and located in the blue octagonal panel behind the word "Fairbanks."

Particular description of goods.—Wheelbarrows and Tools and Machinery:—viz., Machine-Tools, Consisting of Engine-Lathes, Precision-Lathes, Speed-Lathes, Turret-Lathes, Wood-Turning Lathes, Polishing-Lathes, Chucking-Lathes, Hand-Lathes, Threading-Lathes, Milling-Machines, Grinding-Machines, Shapers, Planers, Stamping-Presses, Rolling-Mills, Cement-Batch Mixers, Cement-Mold-Filling Machines, Circular Metal-Cutting Machines, Band-Saw-Cutting Machines; Woodworking Machinery—viz., Turning, Mortising, Sawing, Planing, Polishing, Boring, Shaping and Bending Machines, Vertical Boring-Mills, Horizontal Boring-Mills, Angle-Guides, Taper-Turning and Box Tools, Radial Boring-Heads, Hydraulic Presses, Pipe Threading and Cutting Machines, Cutting-Off Machines, Gear-Cutting Machines, Key-Seating Machines, Bending-Rolls, Plate-Rolls, Traveling Cranes, Lathe-Chucks, Broaching-Machines, Buffing and Polishing Machinery, Bending-Machines, Bulldozers, Bolt and Nut Making Machines, Centering-Machines, Chucking-Machines, Hand and Automatic Screw-Machines, Filing-Machines, Rack-Cutting Machines, Threading-Machines, Wire Straightening and Cutting Machines; Engine and Pump Division: Gasolene-Engines; Oil-Engines; Heavy Oil-Engines; Power-Transmission Division: Drop-Hangers; Drop-Bearings—Ring Oiling, Chain Oiling, Plain Oiling, Collar End and Closed End; Head-Shaft Hangers, Sling-Hangers, Bracket-Hangers, Post-Hangers, Pillow-Blocks, Ring-Oiling Rigid Post-Boxes, Rigid Post-Boxes, Ball-and-Socket Ring-Oiling Pillow-Blocks, Ring-Oiling Rigid Quill-Bearings, Extra-Heavy Rigid Pillow-Blocks, Ring-Oiling Rigid Pillow-Blocks, Rigid Pillow-Blocks, Plain Flat Boxes; Solid Journal-Boxes—Plain, Bored, Babbitted; Angle Pillow-Blocks, Belt-Shifting Appliances, Wood Split Pulleys, Steel Pulleys, Sleeves for Loose Pulleys, Cast-Iron Pulleys, Right-Angle Transmissions, Mule Pulley-Stands, Binder-Frames; Rack-and-Pinion Belt-Tighteners, Upright Belt-Tighteners, Vertical Belt-Tighteners, Horizontal Belt-Tighteners, Friction-Clutches, Friction-Clutch Cut-Off Couplings; Shifter Stands—Lever, Shifter, Worm-Geared Shifter; Rope-Sheaves; Tension-Carriers—Horizontal Double Track, Vertical Single Track, Vertical; Track-Hangers, Tension-Weights, Tail-Rope Sheaves, Grease-Cups, Spur-Gears, Bevel-Gears, Miter-Gears, Spur Mortise-Wheels, Spur Mortise-Pinions, Bevel Mortise-Gears, Miter Mortise-Gears, Worm-Gears, Sprocket-Wheels for Link Belts, Elevator-Buckets, Elevator-Boots, Bucket Elevators, Tray Elevators, Arm Elevators, Drag Conveyers; Apron Conveyers; Belt Conveyers; Troughing and Return Idlers, Guide-Idlers; Automatic Trippers—Reversible; Hand-Propelled Trippers, Helicord Steel Conveyers, Standard Steel Conveyers, Conveyer-Couplings, Conveyer-Hangers, Conveyer Box Ends, Roller-Bearings, Ball-Bearings, Paper Pulleys Belt Grip and Leather-Faced Pulleys; Automobile and Service-Station Equipment: Running-In Machines, Burning-In Motor Test and Running-In Machines, Bench-Clamps, Connecting-Rod Jigs, Piston-Clamps, Test-Bars,



Exclusive use of the words "The Northwestern Consolidated Milling Co." and "Flour" is disclaimed.
Particular description of goods.—Wheat-Flour.
Claims use since May 19, 1919.

Ser. No. 130,897. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Messmer Proprietaries Co., Inc., Covington, La. Filed Mar. 19, 1920.



Particular description of goods.—A Remedy for Chafes, Colds, Burns, Cuts, Stings, Chaps, Sores, Rheumatic Pains, and Inflammation.
Claims use since Sept. 15, 1919.

Ser. No. 131,870. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) S. Peterman Manufacturing Company, St. Louis, Mo. Filed Apr. 12, 1920.



Particular description of goods.—Medicinal Tonic.
Claims use since Mar. 25, 1920.

Ser. No. 132,057. (CLASS 20. FANCY GOODS, FURNISHINGS, AND NOTIONS.) Thos. Bonnell Manufacturing Company, Middletown, Conn. Filed Apr. 26, 1920.



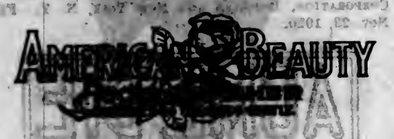
Particular description of goods.—Leather Dress-Belting.
Claims use since about August, 1902.

Ser. No. 132,967. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Carton Lunch System, Brooklyn, N. Y. Filed May 28, 1920.



Ready to be Eaten—Namely, Bread, Cake, Pastry, Rolls, Sausages, Fish, Oysters, Scallops, Clams, Lobsters, Chicken, Wild Fowl, Venison, and Goosenecks, All in Cooked Meats Ready for Immediate Consumption.
Claims use since 1903.

Ser. No. 133,143. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) Geuss Patent Washer Co., Morton, Ill. Filed June 1, 1920.



The words "Electric Washer" and "Washes so Clean so Gently" not being claimed apart from the mark shown in the drawing.
Particular description of goods.—Laundry-Washing Machines.
Claims use since Dec. 31, 1919.

Ser. No. 134,347. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) The Acme Shear Company, Bridgeport, Conn. Filed Aug. 20, 1920.



Particular description of goods.—Cast-Iron Scissors and Shears.
Claims use since on or about Jan. 4, 1864.

Ser. No. 136,563. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) Koppel Industrial Car & Equipment Co., Koppel and Pittsburgh, Pa. Filed Aug. 27, 1920. Under 10-year proviso.



Particular description of goods.—Railway-Rails, Metal Railway-Ties, Fish-Plates, Railway-Switches, Points, Railway-Frogs, Railway-Crossings, Rail-Joint-Plates, Rail-Anchors, Rail-Braces, and Anti-Creepers.
Claims use since [illegible], 1920.

Ser. No. 136,781. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Gebrueder Bühler, Uzwil, Switzerland. Filed Sept. 8, 1920.



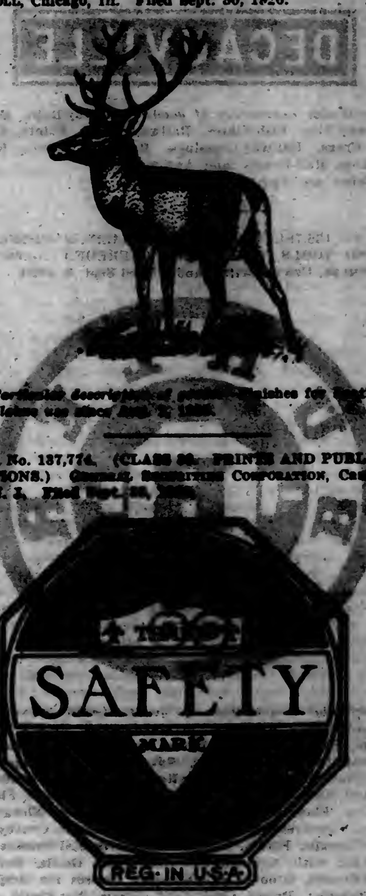
Particular description of goods.—Grain-Separators, Grain-Cleaning Machines, Shaking-Sieves, Rotary Separators, Sieve-Separators, Wheat-Brakes and Conditioners, Roller-Mills, Grinding-Rolls, Spout-Bolts, Corrugating-Machines, Grain-Separating-Rolls, Separators, Centrifugal and other Separating-Machines, Sieving-Purifiers, Flour-Beaters, Flour-Dressing and Blending Machines, Elevators, Worm Conveyers, Belt Conveyers, Pneumatic Conveyers, Coal-Charging Plants, Vertical and Horizontal Presses for Working with Accumulators and Paste Goods, Helical Feed-Presses, Grooved File-Presses; Presses for Briqueting Sawdust, Brown Coal, Peat, Straw, Net-Shells, and Metal Turnings; Printing-Presses, Celluloid and Power Presses, Cocoa-Presses.
Claims use since Oct. 21, 1919.

Ser. No. 137,560. (CLASS 28. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Bunce & Stratton Company, Milwaukee, Wis. Filed Sept. 24, 1920.

FLYER

Consisting of the word "Flyer."
Particular description of goods.—Detachable-Hydro-carbon-Motor Wheels for Bicycles and other Land-Vehicles.
Claims use since about August, 1919.

Ser. No. 137,761. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) William E. Carroll, Chicago, Ill. Filed Sept. 30, 1920.



Particular description of goods.—Polishes for Leathers.
Claims use since Aug. 2, 1920.

Ser. No. 137,774. (CLASS 36. PRINTS AND PUBLICATIONS.) General Electric Corporation, Camden, N. J. Filed Sept. 30, 1920.

No claim being made to trade-mark right in the words "General Safety System," "Trade-Mark," and "Reg. in U. S. A." apart from the trade-mark shown in the drawing. Shading in drawing is not indicative of color.
Particular description of goods.—Bonds, Interest-Coupons, Promissory Notes, Stock-Certificates, Interim Certificates, and Ownership Certificates.
Claims use since Mar. 1, 1920.

Ser. No. 138,261. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) Noxon Chemical Products Co., Newark, N. J. Filed Oct. 13, 1920.

NOXON

Particular description of goods.—Cleaner-Polish for Metals, Glass, and Porcelain.
Claims use since Feb. 2, 1912.

Ser. No. 138,517. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) Presto Chemical Co., Detroit, Mich. Filed Oct. 19, 1920.



No claim is made to the exclusive right to the use of the words "Quick as a Wink," "Cleans Like Magic," and "Trade Mark" apart from the mark shown.
Particular description of goods.—Cleaning Fluid.
Claims use since about 1911.

Ser. No. 138,601. (CLASS 8. RECEPTACLES.) California Cooperage Cuvinage Co., Oakland, Calif. Filed Oct. 20, 1920.

CALCO

Particular description of goods.—Metal Grain-Bins, Metal Watering-Tanks, Metal Watering-Troughs, Metal Wagon-Tanks, Metal Feed-Troughs.
Claims use since Feb. 1, 1916.

Ser. No. 139,926. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) Acme Die Casting Corporation, Brooklyn and New York, N. Y. Filed Nov. 22, 1920.

ACME-DIE

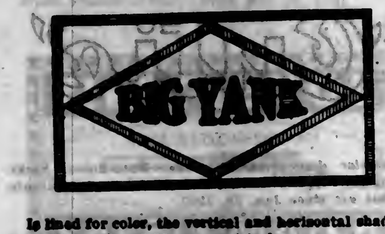
No claim is made to the name "Die" apart from the mark shown in the drawing.
Particular description of goods.—Non-Ferrous Castings, Such as Die-Castings.
Claims use since about Mar. 15, 1919.

Ser. No. 140,287. (CLASS 2. RECEPTACLES.) United Steel and Wire Co., Battle Creek, Mich. Filed Nov. 27, 1920.



No claim is made to the word "Steel" apart from the mark shown in the drawing.
Particular description of goods.—Poultry-Crates.
Claims use since Aug. 15, 1920.

Ser. No. 140,409. (CLASS 39. CLOTHING.) Reliance Manufacturing Company, Chicago, Ill. Filed Nov. 29, 1920.



Is lined for color, the vertical and horizontal shade lines indicating red and blue, respectively.
Particular description of goods.—Work-Shirts.
Claims use since Aug. 16, 1920.

Ser. No. 140,868. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) John Dunn, Son and Co., New York, N. Y. Filed Dec. 10, 1920.



Consists of the word "Guanaco" and a picture of the animal guanaco.
Particular description of goods.—Bolts and Nuts, Chain, Woven-Wire Fencing.
Claims use since January, 1879.

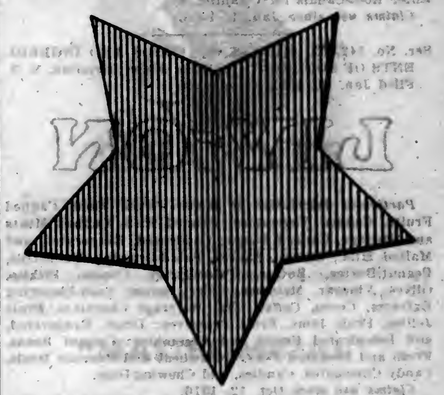
Ser. No. 141,139. (CLASS 39. CLOTHING.) Richman, Newburger & Travers, New York, N. Y. Filed Dec. 16, 1920.



Policeman—How about your clothes?

Particular description of goods.—Boys' and Young Men's Suits in One, Two, and Three Piece Garments.
Claims use since Jan. 1, 1914.

Ser. No. 141,451. (CLASS 39. CLOTHING.) The Boss Manufacturing Company, Kewanee, Ill., and Brooklyn, N. Y. Filed Dec. 23, 1920.



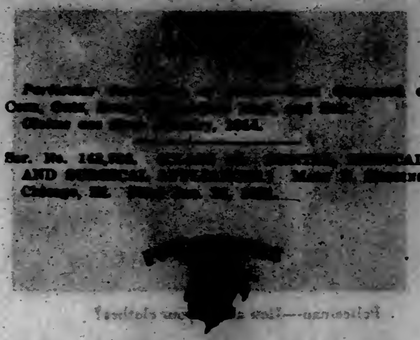
Consists of the representation of a star colored red.
Particular description of goods.—Cotton or Canvas Gloves and Mittens.
Claims use since September, 1909.

Ser. No. 141,567. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Chr. Hansen's Laboratory, Inc., Little Falls, N. Y. Filed Dec. 28, 1920. Under ten-year proviso.

HANSEN'S DANISH

The words "Hansen's Danish."
Particular description of goods.—Butter-Color, Cheese-Color, and Rennet Extract.
Claims use since 1878.

Ser. No. 142,826. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PEARL S. DAVIES CO., Memphis, Tenn. Filed Jan. 20, 1921.



Particular description of goods.—Finishing-Strips, a Linen Strip of Various Widths and Lengths Faced with an Abrasive Material of Different Kinds and Degrees of Fineness, Used for Finishing Teeth, Finishing Fillings, &c.; Temporary Stopping, a Material with a Gutta-Percha Base Used Principally for the Temporary Sealing of Cavities in Teeth Which are Under Treatment, and Broaches or Nerve-Extractors, a Wire-Like Barbed Instrument Used to Enter Root-Canals for Cleaning, &c.
Claims use since Jan. 1, 1905.

Ser. No. 142,922. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) O. A. BEATT & SON, Hemlock, N. Y. Filed Jan. 21, 1921.

LIV-ON

Particular description of goods.—Wheat-Flour, Canned Fruits, Canned Vegetables, Canned Fish, Canned Meats and Sausage, Canned Soups; Condensed, Evaporated, and Malted Milk; Cereals, Starch, Salad-Dressing, Salad-Oils, Peanut-Butter, Butter, Table-Syrup, Cheese, Pickles, Olives, Vinegar, Molasses, Chili, Spices, Food-Flavoring Extracts, Cocoa, Coffee, Tea, Beverage Chocolate, Fruit Jellies, Fruit Jams, Fruit Preserves; Dried, Evaporated, and Dehydrated Fruits and Vegetables; Canned Beans, Fresh and Prepared Peas, Buckwheat and Pancake Meals, Candy Chocolates, Candies, and Chewing-Gum.
Claims use since Oct. 12, 1916.

Ser. No. 143,102. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) JOHN HOWE, Peoria, Ill. Filed Feb. 4, 1921.

Green Carnation Polish

The word "Polish" is hereby disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Furniture-Polish.
Claims use since Nov. 3, 1920.

Ser. No. [illegible] (CLASS 6. DRUGS AND CHEMICALS, MEDICINES AND PHARMACEUTICAL PREPARATIONS.) SAMUEL E. ATKINSON, Woodstock and Chicago, Ill. Filed Feb. 18, 1921.

Pinaty

Particular description of goods.—Brazing Flux.
Claims use since Jan. 1, 1919.

Ser. No. 144,041. (CLASS 39. CLOTHING.) ONITA SPECIALTY CO., Brooklyn, N. Y. Filed Feb. 25, 1921.

"Cutie"

Particular description of goods.—Bath-Robes, Sacks, Buntings, Wrappers, Gowns, and Petticoats for Infants.
Claims use since Jan. 28, 1921.

Ser. No. 144,596. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WEST-OWRENT CO., Kingsbury, S. D. Filed Mar. 16, 1921.

Kernel-K-nut

The letters "K" in both occurrences being lined for green to contrast with the remaining letters of the mark.
Particular description of goods.—Candy.
Claims use since December, 1920.

Ser. No. 144,929. (CLASS 49. HARDWARE AND PLUMBING [illegible] SUPPLIES.) MIDWEST STEEL & WIRE CO. INC., New York, N. Y. Filed Mar. 18, 1921.

MIDWEST

Particular description of goods.—Belts, Anchor-End Belts, and Clamps Used with Anchor Ends, Stringers, and Metal Sections.
Claims use since Feb. 11, 1921.

Ser. No. 145,405. (CLASS 6. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) HUGO FRIEDMAN, Chicago, Ill. Filed May 23, 1921.



Particular description of goods.—Extracting-Elevators, Dental Surgical Curettes, Operating-Knives, Hemeostats, Scalers, Chisels, Mouth-Gags, Mouth-Props, Scissors, Retractors, Burs, and Surgical Mallets.
Claims use since about Feb. 10, 1921.

Ser. No. 145,502. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) ZÜNDWAREN-AKTIENGESELLSCHAFT, formerly Prague-Vinobrady, Czechoslovakia. Filed Mar. 28, 1921.



No claim is made to the exclusive right to use the terms "Made in Czecho-Slovakia," "Trade-Mark," and "Safety Matches" apart from the mark shown in the drawing.
Particular description of goods.—Matches.
Claims use since Nov. 21, 1919.

Ser. No. 145,418. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) THE PERKIOMEN TRUNK AND BAG COMPANY, INC., Philadelphia, Pa. Filed Mar. 29, 1920.

TRADE MARK
STANDWELL
TRUNKS

Exclusive right to the use of the words "Trade Mark," "Stands-Well" and "Trunks" is disclaimed except as used in conjunction with the mark shown.
Particular description of goods.—Trunks.
Claims use since Mar. 10, 1921.

Ser. No. 144,305. (CLASS 39. CLOTHING.) JULES LEMAIRE, Paris, France. Filed Apr. 14, 1921.

FALESSA

Particular description of goods.—Sock-Supporters, Hose-Supporters, Corsets.
Claims use since May 31, 1920.

Ser. No. 146,060. (CLASS 39. CLOTHING.) KING BLADE CO., Detroit, Mich. Filed Apr. 22, 1921.

Tudor Tailored

No claim is made to the word "Tailored" apart from the mark shown by the drawing.
Particular description of goods.—Men's and Youths' Suits and Overcoats.
Claims use since Sept. 21, 1917.

Ser. No. 146,935. (CLASS 39. CLOTHING.) SHAWNEE TEXTILE COMPANY, Millintown, Pa. Filed Apr. 28, 1921.



Particular description of goods.—Hosiery.
Claims use since Feb. 10, 1921.

Ser. No. 146,989. (CLASS 2. RECEPTACLES.) UNITED STATES FOIL COMPANY, Louisville, Ky. Filed Apr. 28, 1921.

"MASTER-METAL"

No claim being made to the word "Metal" apart from the mark shown.
Particular description of goods.—Foil Wrappers.
Claims use since Apr. 15, 1920.

Ser. No. 146,989. (CLASS 17. TOBACCO PRODUCTS.) ESTATE OF JOSEPH J. SCHAEFER, DECEASED, Dayton, Ohio. Filed Apr. 29, 1921. Under ten-year proviso.

MENTOR

Particular description of goods.—Cigars.
Claims use since Sept. 21, 1902.

Ser. No. 146,902. (CLASS 17. TOBACCO PRODUCTS.) ESTATE OF JOSEPH J. SCHAEFER, DECEASED, Dayton, Ohio. Filed Apr. 20, 1921.

COLONIAL GIRL

Particular description of goods.—Cigars.
Claims use since Oct. 25, 1906.

Ser. No. 146,905. (CLASS 17. TOBACCO PRODUCTS.) ESTATE OF JOSEPH J. SCHAEFER, DECEASED, Dayton, Ohio. Filed Apr. 20, 1921.

BIG HEAD

Particular description of goods.—Cigars.
Claims use since March, 1906.

Ser. No. 147,109. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) LOUIS JAFFE, New York, N. Y. Filed May 2, 1921.



The words "Sanitary Products" are disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Sanitary Rubber Sheeting, Sanitary Aprons, Sanitary Belts, Sanitary Napkins, Rubber Drawers, Rubber Diapers, Rubber Bibs, Rubber Shields, Sanitary Bloomers, Sanitary Knickerbockers, Rubber Aprons, and Sanitary Sleeve-Protectors for Surgical and Hospital Use.
Claims use since Apr. 20, 1921.

Ser. No. 147,120. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) PLUMBERS SUPPLY COMPANY, Joplin, Mo. Filed May 2, 1921.

PLUSCO

Particular description of goods.—Porcelain and Enamel Bathtubs, Lavatories, Water-Closet Bowls, Sinks, Urinals, and Laundry-Tubs.
Claims use since Apr. 1, 1918.

Ser. No. 147,402. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHEMEKETA COOPERATIVE ASSN., Salem, Oreg. Filed May 6, 1921.

FILBERLAND

Particular description of goods.—Dried Fruits, Dried Berries, Dried Vegetables, Canned Fruits, Canned Berries, Canned Vegetables, Fresh Fruits, Fresh Berries, Fresh Vegetables, Fruit Juices, Fruit Jellies, Fruit Preserves, Catsup, Mince-Meat, Vinegar, Spices, Candy, Ice-Cream; Dairy Products—Namely, Butter and Cheese; Nuts in Their Natural State.
Claims use since July 9, 1920.

Ser. No. 147,548. (CLASS 17. TOBACCO PRODUCTS.) PAUL I. BERNSTEIN, San Francisco, Calif. Filed May 11, 1921.

BK

Particular description of goods.—Cigars.
Claims use since Feb. 20, 1917.

Ser. No. 147,560. (CLASS 17. TOBACCO PRODUCTS.) I. LEWIS CIGAR MANUFACTURING CO., Newark, N. J. Filed May 11, 1921.

FLOR DE MELBA

Particular description of goods.—Cigars.
Claims use since about Apr. 1, 1884.

Ser. No. 147,561. (CLASS 17. TOBACCO PRODUCTS.) I. LEWIS CIGAR MANUFACTURING CO., Newark, N. J. Filed May 11, 1921.

JOHN RUSKIN

Particular description of goods.—Cigars.
Claims use since about May 1, 1893.

Ser. No. 147,650. (CLASS 2. RECEPTACLES.) RALPH W. WILSON, New York, N. Y. Filed May 12, 1921.

Kik-Tite

Consisting of the coined words "Kik-Tite."
Particular description of goods.—Caps and Tops of Receptacles—Namely, Bonne and Cans.
Claims use since Apr. 6, 1921.

Ser. No. 147,578. (CLASS 39. CLOTHING.) PHILIPSBORN'S, INC., Chicago, Ill. Filed May 13, 1921.

CASTLEQUEEN

The lining on the drawing is for shading only.
Particular description of goods.—Women's and Misses' Waists, Either Silk, Cotton, or Wool.
Claims use since January, 1921.

Ser. No. 147,661. (CLASS 39. CLOTHING.) PHILIPSBORN'S, INC., Chicago, Ill. Filed May 13, 1921.

Marsnap

Particular description of goods.—Men's Suits and Overcoats.
Claims use since December, 1920.

Ser. No. 147,682. (CLASS 39. CLOTHING.) PHILIPSBORN'S, INC., Chicago, Ill. Filed May 13, 1921.

Onarbilt

Particular description of goods.—Overalls, Work-Shirts, and Pants for Men, Young Men, and Boys.
Claims use since January, 1920.

Ser. No. 147,805. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TIBBITTS-HEWITT GRO. CO., St. Louis, Mo. Filed May 16, 1921.

SAIL-ON

Particular description of goods.—Canned Fruits, Canned Vegetables, Canned Fish, and Coffee.
Claims use since June 30, 1920.

Ser. No. 147,923. (CLASS 39. CLOTHING.) EDWARD H. MILGRAM, Gary, Ind. Filed May 20, 1921.

MB BOOT SHOP MB

No claim being made to the words "Boot Shop" apart from the mark shown in the drawing.
Particular description of goods.—Boots, Shoes, and Overshoes of Leather, Rubber Fabrics and Combinations of the Same.
Claims use since Feb. 1, 1912.

Ser. No. 147,989. (CLASS 17. TOBACCO PRODUCTS.) EDMUND B. QUINBY, Tampa, Fla. Filed May 20, 1921.

DON X

Particular description of goods.—Cigars.
Claims use since November, 1920.

Ser. No. 148,101. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WORCESTER BRUSH AND SCRAPER COMPANY, Worcester, Mass. Filed May 23, 1921.

Criss-Cross

Particular description of goods.—Boiler-Tube Cleaners.
Claims use since Nov. 1, 1920.

Ser. No. 148,183. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE THOMSON-DIGGS COMPANY, Sacramento, Calif. Filed May 24, 1921.



Particular description of goods.—Articles of Tinware, Tinned Ware, Enameled Ware, Aluminum Ware, and Galvanized Ware, Consisting of Saucepans, Steamers, Rice-Boilers, Milk-Boilers, Stock-Pots, Preserve-Kettles, Sauce-Kettles, Dish-Pans, Milk-Pans, Pudding-Pans, Bread-Pans, Stove-Pans, Pie-Plates, Mumm-Pans, Cups, Saucers, Dippers, Foot-Tubs, Cuspidors, Water-Pitchers, Washbasins, Chambers, Coffee-Boilers, Coffeepots, Teapots, Teakettles, Rinsing-Pans, Roasting-Pans, Fry-Pans, Skillets, Dripping-Pans, Lawn-Sprinklers, and Dust-Pans.
Claims use since Jan. 1, 1918.

Ser. No. 148,[illegible] (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) [illegible] Manufacturing Scientific Appliance Co., New York, N. Y. Filed May 26, 1921.

SUPERIOR

Consisting of the word "Superior."

Particular description of goods.—Dressing Instruments and Appliances—viz., Compasses, Dividers, [illegible], Rotating Compasses, Dotting Instruments, Beam Compasses, Proportional Dividers, Pantographs, Sectional Liners, Ellipsographs, Protractors, Hair-Rules, Scales, Rules, Squares, Triangles, Curves, Drawing-Boards, Drawing-Tables.

Claims use since Feb. 1, 1921.

Ser. No. [illegible]206. (CLASS [illegible] KNITTED AND [illegible] FABRICS.) [illegible], Paris, France. Filed May 26, 1921.

ORGANDINA

Particular description of goods.—Cotton Piece Goods.

Claims use since Dec. 29, 1920.

Ser. No. 148,207. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) Schnepel Bros., Newark, N. J. Filed May 26, 1921.

SHARPER

CUT-CROSS

The word "Sharper" is disclaimed apart from the mark shown in the drawing. The representation of the portion of the file as shown in the drawing is also disclaimed.

Particular description of goods.—Manicure-Files.

Claims use since about May 13, 1921.

Ser. No. 148,208. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) Schnepel Bros., Newark, N. J. Filed May 26, 1921.

VELVET

DOUBLE CUT CROSS

The representation of a portion of the file as shown in the drawing is disclaimed.

Particular description of goods.—Manicure-Files.

Claims use since about May 13, 1921.

Ser. No. [illegible]209. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) Schnepel Bros., Newark, N. J. Filed May 26, 1921.

DOUBLE CUT CROSS

The word "Rapid" is disclaimed apart from the mark shown in the drawing. The representation of the portion of the file as shown in the drawing is also disclaimed.

Particular description of goods.—Manicure-Files.

Claims use since about May 13, 1921.

Ser. No. [illegible] (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) Schnepel Bros., Newark, N. J. Filed May 26, 1921.

TRIPLE CUT CROSS

The word "Professional" is disclaimed apart from the mark shown on the drawing. The representation of the portion of the file as shown in the drawing is also disclaimed.

Particular description of goods.—Manicure-Files.

Claims use since about May 13, 1921.

Ser. No. 148,748. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Agnes Mitchell, London, England. Filed June 6, 1921.

Rusmak

Particular description of goods.—A Preparation for Removing Superfluous Hairs from the Skin of Human Beings.

Claims use since 1909.

Ser. No. 148,838. (CLASS 39. CLOTHING.) Arthur E. Hodges, Northampton, Mass., assignor to Northampton Hosiery Company, Northampton, Mass., a Corporation of Massachusetts. Filed June 8, 1921.

PARADISE

Particular description of goods.—Hosiery.

Claims use since May 21, 1921.

Ser. No. [illegible] (CLASS [illegible] [illegible] Manufacturing Co., New York, N. Y. Filed June 11, 1921.

[illegible]

No claim is made to the word "Dresses" apart from the mark shown in the drawing.

Particular description of goods.—Ladies' and Misses' Dresses.

Claims use since Mar. 10, 1921.

Ser. No. 149,016. (CLASS 39. CLOTHING.) J. A. Miller, Inc., New York, N. Y. Filed June 11, 1921.

"THOROBRED"

Particular description of goods.—Women's Skirts, Petticoats, Waists, Suits, Coats, Bloomers, Brassières, Corset-Covers, and Underwear Made of Textile Fabrics.

Claims use since Mar. 21, 1921.

Ser. No. 149,019. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) William H. Moulton, Belleville, N. J. Filed June 11, 1921.

CARBONITE

Particular description of goods.—Chemical Preparation for Removing Carbon from the Cylinders of Internal-Combustion Engines.

Claims use since Jan. 1, 1921.

Ser. No. 149,020. (CLASS 39. CLOTHING.) New York Mackintosh Clothing Company, New York, N. Y. Filed June 11, 1921.

Dri-Man

Particular description of goods.—Raincoats.

Claims use since about May 5, 1920.

Ser. No. 149,052. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Bordeaux & New York Trading Co., New York, N. Y. Filed June 13, 1921.

The shading in drawing represents the colors red and blue. Applicant disclaims the word "Brand" apart from the mark shown in the drawing.

Particular description of goods.—Sardines.

Claims use since January, 1915.

Ser. No. 149,053. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Bordeaux & New York Trading Co., New York, N. Y. Filed June 13, 1921.

The shading in the drawing represents the colors red and blue.

Particular description of goods.—Sardines.

Claims use since January, 1915.

Ser. No. 149,087. (CLASS 39. CLOTHING.) Louvre Knitting Mills, Inc., New York, N. Y. Filed June 13, 1921.

LOUVRE

Particular description of goods.—Men's Knitted Mufflers, Men's Woven Mufflers, Men's Wool Mufflers, Men's Knitted Ties, Ladies' Angora-Wool Sets, Ladies' Silk Scarfs, Tam-O'-Shanters, Angora Shawls, and Ladies' Sweaters.

Claims use since March, 1921.

Ser. No. 149,095. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Omaha Alfalfa Milling Co., Omaha, Nebr. Filed June 13, 1921.

ALFALFO

Particular description of goods.—Horse and Cattle Feed.
Claims use since January, 1911.

Ser. No. 149,096. (CLASS 39. CLOTHING.) Joseph A. Rodifer, Phoenix, Ariz. Filed June 13, 1921.

Allie Rudie

Particular description of goods.—Women's and Children's Dresses and Aprons.
Claims use since May 27, 1921.

Ser. No. 149,106. (CLASS 17. TOBACCO PRODUCTS.) Ulysses G. Sharp, Uhrichsville, Ohio. Filed June 13, 1921.



Particular description of goods.—Cigars.
Claims use since Jan. 1, 1921.

Ser. No. 149,199. (CLASS 39. CLOTHING.) I. Newman & Sons, New Haven, Conn. Filed June 15, 1921. Under ten-year proviso.

PERFECTION

Consisting of the word "Perfection," having the letters "P" and "N" accentuated.
Particular description of goods.—Corsets.
Claims use since about 1887.

Ser. No. 149,208. (CLASS 35. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) The Central Tractor Company, Greenwich, Ohio. Filed June 16, 1921.

CENTAUR

Particular description of goods.—Tractors.
Claims use since Mar. 3, 1921.

Ser. No. 149,230. (CLASS 39. CLOTHING.) J. Tenbaum & Sons, New York, N. Y. Filed June 16, 1921.

BOBETTE HAT

Particular description of goods.—Ladies' Hats.
Claims use since March, 1921.

Ser. No. 149,254. (CLASS 17. TOBACCO PRODUCTS.) Welwel Cigar Manufacturing Co., New York, N. Y. Filed June 16, 1921.

Welwel

Particular description of goods.—Cigars.
Claims use since May 15, 1921.

Ser. No. 149,311. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) The Audubon Chemical Company, New Orleans, La. Filed June 18, 1921.

Sleep-On

Particular description of goods.—Mosquito-Repellent.
Claims use since Apr. 1, 1921.

Ser. No. 149,430. (CLASS 17. TOBACCO PRODUCTS.) The Samson Tobacco Company Incorporated, Glasgow, Ky. Filed June 20, 1921.

PENNYROYAL

Particular description of goods.—Twist and Granulated Smoking-Tobacco.
Claims use since on or about Jan. 1, 1910.

Ser. No. 149,609. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) Worthington Pump and Machinery Corporation, New York, N. Y. Filed June 24, 1921.

WORTHINGTON

Particular description of goods.—Liquid-Meters, Piston-Meters, Disk Meters, Turbine-Meters, Weight-Meters, Flow-Meters, Boiler-Feed Meters, Disk Counters.
Claims use since 1885.

Ser. No. 149,686. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Decora Manufacturing Co., Richmond, Calif. Filed June 27, 1921.

DECORA

Particular description of goods.—Air-Brush Plants.
Claims use since September, 1918.

Ser. No. 149,788. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) William K. Stamets, Pittsburgh, Pa. Filed June 28, 1921.



No claim is made to the words "Machine Tools and Machinery, Cleveland-Pittsburgh" except in the connection shown in the drawing, the lining expressing the color red.
Particular description of goods.—Lathes, Drilling-Machines, Milling-Machines, Centering-Machines, Planers, Shapers, Hoisting Apparatus, Screw-Machines, Power-Hammers, Hydraulic Presses, Power-Punches, Power-Shears, and Power Bending-Rolls.
Claims use since July 8, 1919.

Ser. No. 149,809. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) Jules Louis Lemoine, Paris, France. Filed June 29, 1921.

SALAM

Consists of the invented word "Salam."
Particular description of goods.—Coffee-Percolators, Coffee and Tea Urns, Coffeepots, Coffee and Tea Cups, Coffee-Cans, Kettles, and Saucepans.
Claims use since about Mar. 15, 1921.

Ser. No. 149,817. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) "Perolin" Fabrikationsgesellschaft, m. b. H., Vienna, Austria. Filed June 29, 1921.

„AEROL"

Particular description of goods.—Spray-Diffusers for Fluids and Disinfectants.
Claims use since May, 1921.

Ser. No. 149,843. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) California Optical Company, San Francisco, Calif. Filed June 30, 1921.

POINTAL

Particular description of goods.—Lenses, Glasses, and Mirrors, Particularly Convex, Concave, Plano-Convex, Double-Convex, Concavo-Convex, Plano-Concave, Double-Concave, and Convexo-Concave Lenses, Magnifying-Glasses, Glasses and Mirrors for Use in Spectacles, Eyeglasses, Monocles, Binoculars, Field-Glasses, Opera-Glasses, Telescopes, Microscopes, Transits, Range-Finders, Spectrascopes, Chromascopes, and Stereoscopes.
Claims use since May, 1921.

Ser. No. 149,882. (CLASS 17. TOBACCO PRODUCTS.) The Zorro Tobacco Co. Inc., New York, N. Y. Filed June 30, 1921.



Particular description of goods.—Smoking-Tobacco.
Claims use since May 4, 1921.

Ser. No. 149,808. (CLASS 17. TOBACCO PRODUCTS.) [illegible] Filed July 1, 1921.

SALEM

Particular description of goods.—Twist, Plug, and Smoking Tobacco.
Claims use since 1918.

Ser. No. 149,809. (CLASS 17. TOBACCO PRODUCTS.) EUGENE S. COCHRAN, Washington, D. C. Filed July 1, 1921.



TULIP

Particular description of goods.—Cigars, Cigarettes, Smoking-Tobacco, and Leaf-Tobacco.
Claims use since about 1858.

Ser. No. 150,100. (CLASS 17. TOBACCO PRODUCTS.) CHRISTIAN PFEIFER TOBACCO CO., St. Louis, Mo. Filed July 7, 1921.

KADEE

Consists of the word "Kadee."
Particular description of goods.—Cigarettes.
Claims use since Sept. 20, 1905.

Ser. No. 150,[illegible] (CLASS 17. TOBACCO PRODUCTS.) [illegible] Filed July [illegible], 1921.



Particular description of goods.—Cigarettes.
Claims use since July, 1920.

Ser. No. 150,172. (CLASS 23. CUTLERY, MACHINERY AND TOOLS, AND PARTS THEREOF.) THE AMERICAN FLOOR SURFACING MACHINE CO., Toledo, Ohio. Filed July 9, 1921.

AMERICAN UNIVERSAL

Particular description of goods.—Floor-Surfacing Machines.
Claims use since about January, 1919.

Ser. No. 150,208. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) R. M. SEWELL, Chattanooga, Tenn. Filed July 6, 1921.

BUTTERFLY



FINE FEED

No claim is made to the words "Fine Feed" apart from the other features of the mark.
Particular description of goods.—Dairy Feed.
Claims use since Feb. 20, 1921.

Ser. No. 150,[illegible] (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHAIN MANUFACTURING CO., Bailey, Ala. Filed July 25, 1921.

AUTO VAC

Particular description of goods.—Breather-Plugs for Internal-Combustion Engines.
Claims use since June 1, 1921.

Ser. No. 150,354. (CLASS 29. CLOTHING.) EMERY RUBBER HEEL COMPANY, Boston, Mass. Filed July 14, 1921.

TRAVELITE

Particular description of goods.—Rubber Heels.
Claims use since July 12, 1921.

Ser. No. 150,383. (CLASS 17. TOBACCO PRODUCTS.) JOSEPH WHITCOMB & CO., Springfield, Mass. Filed July 14, 1921.

TEL AND TEL

Particular description of goods.—Cigars.
Claims use since June, 1914.

Ser. No. 150,430. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del. Filed July 16, 1921.

DUPONT

Particular description of goods.—Pyroxylin and Nitrocellulose.
Claims use since January, 1920.

Ser. No. 150,445. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WILLIAM HARRIS, Cambridge, Ohio. Filed July 16, 1921.

OPALITE

Particular description of goods.—Rolling-Pins.
Claims use since Jan. 1, 1910.

Ser. No. 150,[illegible] (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) [illegible] Filed July 16, 1921.



Particular description of goods.—An India-Rubber Solution to be Applied on Leather and on Rubber for Repairing the Same.
Claims use since May 13, 1921.

Ser. No. 150,532. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GERMAN CAKE CORPORATION, Chicago, Ill. Filed July 18, 1921.



The words, "More Than 50 Varieties," do not form a part of registration sought apart from the mark shown in the drawing.
Particular description of goods.—Cake.
Claims use since Dec. 1, 1920.

Ser. No. 150,[illegible] (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) NILES ENGINEERING COMPANY, South Norwalk, Conn. Filed July 18, 1921.

JENNINGS

Particular description of goods.—Vacuum Heating-Pumps, Condensation-Pumps.
Claims use since May 1, 1918.

Ser. No. 150,694. (CLASS 17. TOBACCO PRODUCTS.) PALMER CLIFTON LEE, Bellingham, Wash. Filed July 19, 1921.



Particular description of goods.—Cigars.
Claims use since [illegible].

Ser. No. 150,788. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. T. DEWEY & SONS CO., New York, N. Y. Filed July 21, 1921.

DEW-TONE

Particular description of goods.—A Medicinal Tonic for the Treatment of Nervous Troubles.
Claims use since July 7, 1921.

Ser. No. 150,745. (CLASS 17. TOBACCO PRODUCTS.) GROMMES & SONS, Chicago, Ill. Filed July 21, 1921.



ROBERT BACON

Particular description of goods.—Cigars.
Claims use since 1914.

Ser. No. 150,891. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ROBERT L. G. DAY, Spokane, Wash. Filed July 25, 1921.

WONDER

Particular description of goods.—Rope-Machines.
Claims use since Dec. 1, 1917.

Ser. No. 151,097. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HAMMEL BRANDER & CO., New York, N. Y. Filed July 27, 1921. Under ten-year proviso.

VAUTHER

Particular description of goods.—Gravers, Chisels, Gouges, Burnishers, Tracers, and Files.
Claims use since Jan. 1, 1853.

Ser. No. 151,445. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BOKER CUTLERY & HARDWARE COMPANY, INC., New York, N. Y. Filed Aug. 5, 1921.

HOME BARBER

Particular description of goods.—Hair-Clippers.
Claims use since July 18, 1921.

Ser. No. 151,515. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ERNEST NORBERT KENNEDY, London, England. Filed Aug. 6, 1921.



Particular description of goods.—Pocket-Knives.
Claims use since November, 1920.

Ser. No. 151,543. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) IDEAL RIM-TOOL COMPANY, Jacksonville, Fla. Filed Aug. 8, 1921.

IDEAL

Particular description of goods.—Rim-Tools.
Claims use since Mar. 17, 1921.

Ser. No. 151,576. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MINNIE L. CASSITY, Manson, Wash. Filed Aug. 9, 1921.

"LASBLAIN"

Particular description of goods.—Liniments for Use in Connection with Chilblains, Tonics, Sore, and Frost-Bitten Feet, Rheumatic Pains, Lame Back, Swellings, Inflammation of Various Kinds, and a General Soreness of the Body Requiring External Applications.
Claims use since May 10, 1921.

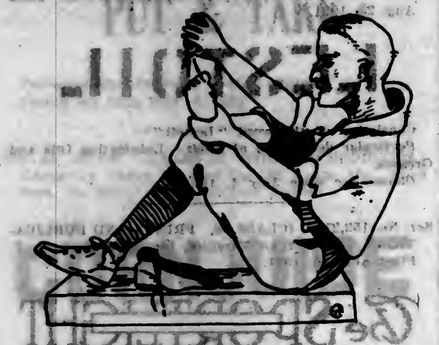
Ser. No. 151,591. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OHIO VALLEY DRUG COMPANY, Wheeling, W. Va. Filed Aug. 9, 1921.

LOGAN'S
LILY CREAM

The word "Cream" being disclaimed apart from the mark as shown.
Particular description of goods.—A Skin Lotion.
Claims use since [illegible].

Ser. No. 151,634. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BEN MARSALISE, De Ridder, La. Filed Aug. 10, 1921.

Marsalise Foot Powder



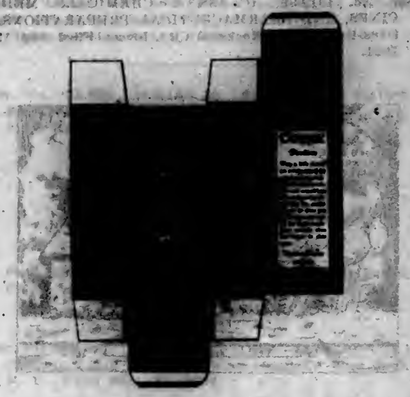
No claim is made for the words "Marsalise Foot Powder" apart from the mark shown.
Particular description of goods.—A Foot-Powder.
Claims use since July 2, 1921.

Ser. No. 151,644. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNION CUTLERY CO., Olean, N. Y. Filed Aug. 10, 1921.

GOLD COIN

Consisting of the words "Gold Coin."
Particular description of goods.—Cutlery—viz., Razors.
Claims use since Jan. 1, 1920.

Ser. No. 151,646. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NORTHAM WARREN CORPORATION, New York, N. Y. Filed Aug. 10, 1921.



No claim being made to the wording except the words "Cutex" and "Northam Warren." The representation of the outline of applicant's package, the representation of the manicuring appliance, and the representation of the bottle appearing on the drawing not being claimed apart from the mark as shown.
Particular description of goods.—Cuticle-Remover in the Nature of a Chemical Preparation.
Claims use since January, 1917.

Ser. No. 151,671. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) EMIL B. HUNNIKER, Seattle, Wash. Filed Aug. 11, 1921.

K-P

Particular description of goods.—Milk-Bottle-Cap Lifters.
Claims use since July 15, 1921.

Ser. No. 151,672. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLARENCE C. HAY, Center, Miss. Filed Aug. 12, 1921.

HAY-PO

Particular description of goods.—Soaps, Dandruff Remedy and Hair-Tonic, Face-Powder, Frosting-Oil, and Dandruff-Dissolvent, and Ointment for Straightening the Hair.
Claims use since Feb. 27, 1917.

Ser. No. 151,699. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BASS-PARKER CO., Rockwell City, Iowa. Filed Aug. 12, 1921.



No claim being made to the exclusive right to the word "Insecticide" or the word "Bran," both occurring.
Particular description of goods.—An Insecticide.
Claims use since Mar. 1, 1921.

Ser. No. 151,714. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN T. HENDERSHOT, Newton, N. J. Filed Aug. 12, 1921.

GREEN LEAF CORN PLASTER



The representation of the leaf being green, no claim being made to the words "Corn Plaster" apart from the mark shown in the drawing.
Particular description of goods.—Corn-Plasters.
Claims use since Jan. 1, 1922.

Ser. No. 151,812

Ser. No. 152,962. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) Essenazol Chemical Products Co., Chicago, Ill. Filed Sept. 14, 1921.



Particular description of goods.—A Casein Product or Material for Use in the Manufacture of Cigar and Cigarette Holders, Pipes, Pipe-Stems, and other Smokers' Supplies, and Also for Buttons, Cane and Umbrella Handles, and All Kinds of Ornamental and Decorative Purposes.
Claims use since on or about Apr. 1, 1921.

Ser. No. 152,964. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) F. P. Nichols & Son, New York, N. Y. Filed Sept. 15, 1921.

WEE-GEE-WASH

Consisting of the term "Wee-Gee-Wash," no claim being made to the exclusive use of the word "Wash" apart from the mark shown in the drawing.
Particular description of goods.—Liquid Preparation for Washing Printers' Rollers.
Claims use since June 3, 1921.

Ser. No. 152,965. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Rohm & Haas Company, Philadelphia, Pa. Filed Sept. 15, 1921.

SORBANOL

Particular description of goods.—Chemical Used for the Tanning of Hides.
Claims use since on or about Sept. 1, 1921.

Ser. No. 152,966. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Ruth Brown Riccius, Miami, Fla. Filed Sept. 15, 1921.

Hybiscas



Particular description of goods.—A Medicine and Pharmaceutical Preparation, the Same Being a Lotion for Skin Irritations.
Claims use since July 15, 1921.

Ser. No. 152,974. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) Yorkville Manufacturing Co., Inc., New York and Brooklyn, N. Y. Filed Sept. 15, 1921.

Pressto

Particular description of goods.—Polishing-Wheels and Polishing-Disks.
Claims use since July 1, 1920.

Ser. No. 152,983. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Colgate & Company, Jersey City, N. J. Filed Sept. 16, 1921.

Clair de Lune

Particular description of goods.—Liquid and Powdered Perfumes.
Claims use since Sept. 7, 1921.

Ser. No. 153,009. (CLASS 32. FURNITURE AND UPHOLSTERY.) Joseph M. Hansen, Lake Forest, Ill. Filed Sept. 16, 1921.

Restona

Particular description of goods.—Mattresses and Cushions.
Claims use since Mar. 2, 1921.

Ser. No. 153,050. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) M. B. Shantz, Incorporated, Rochester, N. Y. Filed Sept. 17, 1921.

Shanstyle

Particular description of goods.—Buttons of Vegetable Ivory.
Claims use since May 21, 1921.

Ser. No. 153,066. (CLASS 32. FURNITURE AND UPHOLSTERY.) The Brockman Company, Chicago, Ill. Filed Sept. 17, 1921.

BROCK-CO

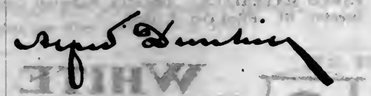
Particular description of goods.—Arm-Rests, Camp-Chairs, and Folding Chairs.
Claims use since Aug. 15, 1921.

Ser. No. 153,072. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Roy H. Cochran, Ventnor, N. J. Filed Sept. 19, 1921.

LAITHINE

Particular description of goods.—Toilet or Complexion Cream.
Claims use since on or about Jan. 1, 1914.

Ser. No. 153,079. (CLASS 17. TOBACCO PRODUCTS.) Alfred Dunhill, London, England. Filed Sept. 19, 1921.



Consisting of the signature of the said Alfred Dunhill.
Particular description of goods.—Tobacco, Manufactured or Unmanufactured; Cigars, and Cigarettes.
Claims use since August, 1920.

Ser. No. 153,161. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) United Drug Company, Boston, Mass. Filed Sept. 20, 1921.

Elegans

Particular description of goods.—A Non-Alcoholic Vehicle or Base for Use by Pharmacists in Compounding Prescriptions.
Claims use since Feb. 1, 1920.

Ser. No. 153,162. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) The William Flood Company, Cleveland, Ohio. Filed Sept. 20, 1921.

AQUAD

Particular description of goods.—Liquid Stains.
Claims use since about Sept. 1, 1921.

Ser. No. 153,166. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Werris Manufacturing Company, Inc., Richmond, Va. Filed Sept. 20, 1921.

KUZOL

Particular description of goods.—Medicinal Preparation for Aiding in the Treatment of Respiratory, Muscular, and Surface Ailments.
Claims use since Aug. 27, 1921.

Ser. No. 153,173. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Badische Anilin- & Soda-Fabrik, Ludwigshafen-on-Rhine, Germany. Filed Sept. 21, 1921.

Ordoval

Particular description of goods.—Leather-Preservatives, Finishing and Tanning Agents.
Claims use since 1917.

Ser. No. 153,218. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Kane Chemical Company, Kane, Ill. Filed Sept. 22, 1921.

KANKO

Consisting of the word "Kanko."
Particular description of goods.—A Powdered Deodorant and Disinfectant.
Claims use since Aug. 1, 1921.

Ser. No. 153,248. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) Israel Hoffman, New York, N. Y. Filed Sept. 23, 1921.

STAR

Particular description of goods.—Hair Curlers and Wavers.
Claims use since June, 1918.

Ser. No. 153,319. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ANTHONY ARZ, New York, N. Y. Filed Sept. 26, 1921.



The words "Laundry," "Soap," and "Brand" appearing on the drawing are disclaimed.
Particular description of goods.—Soaps and Soap Powders.
Claims use since June 7, 1921.

Ser. No. 153,448. (CLASS 17. TOBACCO PRODUCTS.) CHRISTIAN FEIGE TOBACCO CO., St. Louis, Mo. Filed Sept. 28, 1921.

BIG LEAGUE

Consists of the words "Big League."
Particular description of goods.—Smoking and Chewing Tobacco.
Claims use since Feb. 21, 1918.

Ser. No. 153,524. (CLASS 32. FURNITURE AND UPHOLSTERY.) STAR BEDDING CO., St. Louis, Mo. Filed Sept. 29, 1921.

American Maid

Particular description of goods.—Feather Pillows.
Claims use since Sept. 14, 1921.

Ser. No. 153,603. (CLASS 32. FURNITURE AND UPHOLSTERY.) LOUP MATTRESS COMPANY, INC., New Orleans, La. Filed Oct. 1, 1921.



No claim is made to the word "Feather" apart from the mark shown in the drawing.
Particular description of goods.—Pillows.
Claims use since Jan. 1, 1918.

Ser. No. 153,653. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LOUIS F. EDWARDS, New York, N. Y. Filed Oct. 3, 1921.

"DOESALL"

Particular description of goods.—Belt Lubricator or Dressing.
Claims use since about March, 1919.

Ser. No. 153,872. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) DECATUR BREWING COMPANY, Decatur, Ill. Filed Oct. 8, 1921.

WHITE BANNER

Particular description of goods.—Hops.
Claims use since May 12, 1921.

Ser. No. 153,936. (CLASS 37. PAPER AND STATIONERY.) INTERNATIONAL TAG CO., Chicago, Ill. Filed Oct. 10, 1921.

TROJAN

Particular description of goods.—Shipping-Tags.
Claims use since July 21, 1921.

Ser. No. 154,010. (CLASS 17. TOBACCO PRODUCTS.) WILLIAM BERCOVICH, Oakland, Calif. Filed Oct. 12, 1921.

JOAQUIN

Particular description of goods.—Cigars.
Claims use since for twenty years.

Ser. No. 154,031. (CLASS 17. TOBACCO PRODUCTS.) CECILE JONES, New York, N. Y. Filed Oct. 12, 1921.



Kismet

Particular description of goods.—Cigarettes.
Claims use since about Mar. 1, 1921.

Ser. No. 154,514. (CLASS 7. CORDAGE.) THE HOOVEN & ALLISON COMPANY, Xenia, Ohio. Filed Oct. 24, 1921.



A blue star.
Particular description of goods.—Cordage—Namely, Manila, Sisal, and Hemp Rope and Twine.
Claims use since Mar. 15, 1920.

Ser. No. 154,546. (CLASS 28. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AMERICAN STROPPER CORPORATION, Baltimore, Md. Filed Oct. 25, 1921.

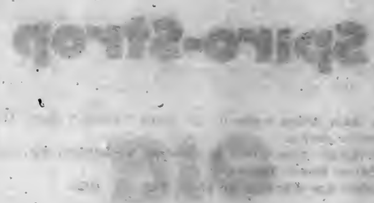
Spiro-Strop

No claim being made to the word "Strop" apart from the mark shown.
Particular description of goods.—Mechanical Stroppers for Safety-Razor Blades.
Claims use since on or about Oct. 21, 1921.

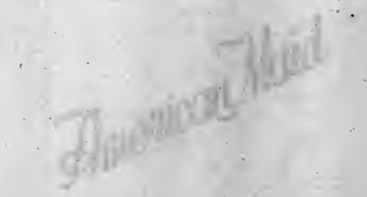














TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

DECEMBER 6, 1921.

148,965. RUBBER TIRE-CASINGS AND TUBES. THE ACHILLES RUBBER AND TIRE CO., INC., Binghamton, N. Y.
Filed April 13, 1921. Serial No. 146,104. PUBLISHED AUGUST 2, 1921.

148,966. NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. ACME BEVERAGE-EXTRACT CO., Chicago, Ill.
Filed April 29, 1921. Serial No. 146,944. PUBLISHED JULY 19, 1921.

148,967. SCISSORS AND SHEARS. THE ACME SHEAR COMPANY, Bridgeport, Conn.
Filed April 25, 1921. Serial No. 146,681. PUBLISHED AUGUST 2, 1921.

148,968. A RUST-PREVENTING AND POLISHING PREPARATION FOR AUTOMOBILE-BODIES ADAPTED TO BE APPLIED BY A CLOTH. FRANK T. ADAMS, Connellsville, Pa.
Filed November 25, 1919. Serial No. 125,272. PUBLISHED AUGUST 16, 1921.

148,969. LATCH-NEEDLES FOR KNITTING-MACHINES. GEO. H. ADAMS CO., Waltham, Mass., and Hill, N. H.
Filed May 2, 1921. Serial No. 147,083. PUBLISHED AUGUST 2, 1921.

148,970. MEN'S CLOTHING—NAMELY, OVERCOATS, SUITS, MACKINAWS, PANTS, RAINCOATS, AND SHEEPSKIN COATS. SAM ADELMAN & CO., Chicago, Ill.
Filed January 12, 1921. Serial No. 142,120. PUBLISHED JUNE 28, 1921.

148,971. CHOCOLATE CANDY. AHREN CO., San Francisco, Calif.
Filed May 2, 1921. Serial No. 147,082. PUBLISHED JULY 26, 1921.

148,972. FISHING-LINES. S. ALLCOCK & CO. LIMITED, Redditch, England.
Filed April 30, 1921. Serial No. 147,000. PUBLISHED AUGUST 9, 1921.

148,973. TEXTILE TOWELS. E. E. ALLEY, New York, N. Y.
Filed May 10, 1921. Serial No. 147,500. PUBLISHED JULY 19, 1921.

148,974. LEDGER-PAPERS. THE ALLING AND CORY COMPANY, Pittsburgh, Pa.
Filed May 4, 1921. Serial No. 147,182. PUBLISHED JULY 19, 1921.

148,975. MONTHLY MAGAZINES. EARL R. ALLURED, Chicago, Ill.
Filed May 12, 1921. Serial No. 147,593. PUBLISHED JULY 19, 1921.

148,976. MAGAZINES PUBLISHED MONTHLY. EARL R. ALLURED, Chicago, Ill.
Filed June 6, 1921. Serial No. 148,687. PUBLISHED AUGUST 9, 1921.

148,977. ORE AND OIL-SHALE ROASTING FURNACES. THE AMERICAN CONTINUOUS RETORT COMPANY, Denver, Colo.
Filed April 16, 1920. Serial No. 131,202. PUBLISHED AUGUST 16, 1921.

148,978. UNSWEETENED EVAPORATED MILK. AMERICAN MILK PRODUCTS CORPORATION, New York, N. Y.
Filed May 9, 1921. Serial No. 147,390. PUBLISHED AUGUST 9, 1921.

148,979. OIL-HEATERS. AMERICAN OIL BURNER COMPANY, New York, N. Y.
Filed June 15, 1921. Serial No. 149,164. PUBLISHED AUGUST 9, 1921.

148,980. MUSICAL INSTRUMENTS, PARTICULARLY PIANOS, PLAYER-PIANOS, AND PARTS THEREOF. AMERICAN PIANO COMPANY, Jersey City, N. J., and New York, N. Y.
Filed April 28, 1921. Serial No. 146,858. PUBLISHED AUGUST 2, 1921.

148,981. MUSICAL INSTRUMENTS, PARTICULARLY PIANOS, PLAYER-PIANOS, AND PARTS THEREOF. AMERICAN PIANO COMPANY, Jersey City, N. J., and New York, N. Y.
Filed April 28, 1921. Serial No. 146,859. PUBLISHED AUGUST 2, 1921.

148,982. ANCHORS AND CERTAIN CASTINGS. AMERICAN STEEL FOUNDRIES, Chicago, Ill.
Filed March 1, 1921. Serial No. 144,170. PUBLISHED JULY 19, 1921.

148,983. A LIQUID MOUTH-WASH AND ANTISEPTIC. HOMER L. ASSELIN, San Francisco, Calif.
Filed January 17, 1921. Serial No. 142,312. PUBLISHED AUGUST 9, 1921.

148,984. CERTAIN NAMED OILS AND GREASES. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa.
Filed June 6, 1921. Serial No. 148,690. PUBLISHED AUGUST 9, 1921.

148,985. COTTON PIECE GOODS. AMOSKEAG MANUFACTURING COMPANY, Manchester, N. H.
Filed June 14, 1921. Serial No. 149,115. PUBLISHED AUGUST 2, 1921.

148,986. ROLLED OATS, STEEL-CUT OATS, CREAM-MEAL, CORNMEAL, HOMINY-GRITS, PEARL-HOMINY. ATLAS CEREAL COMPANY, Kansas City, Mo.
Filed May 24, 1920. Serial No. 132,834. PUBLISHED AUGUST 16, 1921.

148,987. CHOCOLATES. D. AUERBACH & SONS, New York, N. Y.
Filed March 23, 1921. Serial No. 142,250. Publication waived.

148,988. AUTOMOBILE GEARS AND SHAFTING, TRANSMISSION-GEARS, DIFFERENTIAL GEARS, PINIONS, REAR-AXLE GEARS AND SHAFTS. AUTOMOTIVE GEAR WORKS, Atlanta, Ga.
Filed April 6, 1921. Serial No. 145,781. PUBLISHED AUGUST 2, 1921.

148,989. LUBRICATING-OIL. AUTOMOTIVE LUBRICANT COMPANY, San Antonio, Tex.
Filed May 23, 1921. Serial No. 148,045. PUBLISHED AUGUST 9, 1921.

148,990. SPROCKET-VALVE WHEEL-RIMS AND CHAIN-GUIDES. BABBITT STEAM SPECIALTY CO., New Bedford, Mass.
Filed February 16, 1921. Serial No. 143,740. PUBLISHED AUGUST 2, 1921.

148,991. TEXTILE BELTING. VICTOR BALATA & TEXTILE BELTING CO., New York, N. Y., and Easton, Pa.
Filed June 22, 1921. Serial No. 149,529. PUBLISHED AUGUST 9, 1921.

148,992. WHEAT-FLOUR, AND PARTICULARLY SELF-RISING FLOUR. BALLARD & BALLARD COMPANY, Louisville, Ky.
Filed April 25, 1921. Serial No. 146,685. PUBLISHED AUGUST 9, 1921.

148,993. CERTAIN ARTICLES OF CLOTHING. BALLY COMPANY, INC., Wilmington, Del., and New York, N. Y.
Filed March 1, 1921. Serial No. 144,177. PUBLISHED AUGUST 9, 1921.

148,994. CERTAIN ARTICLES OF CLOTHING. BALLY COMPANY, INC., Wilmington, Del., and New York, N. Y.
Filed March 1, 1921. Serial No. 144,178. PUBLISHED AUGUST 9, 1921.

148,995. A LIQUID DYE PREPARATION. H. R. BASS, Kansas City, Mo.
Filed March 10, 1921. Serial No. 144,558. PUBLISHED JULY 19, 1921.

148,996. HOSIERY. BERKS KNITTING COMPANY, Reading, Pa.
Filed April 27, 1921. Serial No. 146,791. PUBLISHED AUGUST 9, 1921.

148,997. PIECE GOODS OF SILK, WOOL, LINEN, COTTON, AND CHINA-GRASS. BIANCHINI, FÉRIER, Lyon, France.
Filed June 6, 1921. Serial No. 148,697. PUBLISHED JULY 19, 1921.

148,998. PIECE GOODS OF SILK, WOOL, LINEN, COTTON, AND CHINA-GRASS. BIANCHINI FÉRIER, Lyon, France.
Filed June 6, 1921. Serial No. 148,698. PUBLISHED JULY 19, 1921.

148,999. TOY CARPET-SWEEPERS. BISSELL CARPET SWEEPER CO., Grand Rapids, Mich.
Filed May 7, 1921. Serial No. 147,335. PUBLISHED AUGUST 9, 1921.

149,000. TOY CARPET-SWEEPERS. BISSELL CARPET SWEEPER CO., Grand Rapids, Mich.
Filed May 7, 1921. Serial No. 147,336. PUBLISHED AUGUST 9, 1921.

149,001. A MEDICATED SALT BRICK FOR LIVE STOCK. BLACKMAN STOCK REMEDY CO., Chattanooga, Tenn.
Filed March 23, 1921. Serial No. 145,097. PUBLISHED JULY 12, 1921.

149,002. POWDER-PUFFS. THE BONNIE-B COMPANY, INC., New York, N. Y.
Filed March 18, 1921. Serial No. 144,895. PUBLISHED JULY 19, 1921.

149,003. TEXTILE RUGS. GEORGES BORGHELOT & CO., New York, N. Y.
Filed May 28, 1921. Serial No. 148,368. PUBLISHED JULY 19, 1921.

149,004. FELT SHOES AND SLIPPERS. BERT E. BERGER, Herkimer, N. Y.
Filed February 17, 1921. Serial No. 143,677. PUBLISHED AUGUST 2, 1921.

149,005. INDIGESTION MEDICINE. JAMES I. BRUNSON, Philadelphia, Pa.
Filed March 5, 1921. Serial No. 144,307. PUBLISHED JULY 19, 1921.

149,006. VERMIN-EXTERMINATOR—VIZ., RAT AND MOUSE POISON. BU-BONO INC., New York, N. Y., and Toronto, Ontario, Canada.
Filed April 13, 1921. Serial No. 146,107. PUBLISHED AUGUST 2, 1921.

149,007. COTTON PIECE GOODS. BURSON BROS. & CO., New York, N. Y.
Filed June 1, 1921. Serial No. 148,479. PUBLISHED JULY 19, 1921.

149,008. MONTHLY PUBLICATION. CALIFORNIA COTTON MILLS COMPANY, Oakland, Calif.
Filed June 3, 1921. Serial No. 148,580. PUBLISHED JULY 19, 1921.

149,009. HOSIERY. CARDINAL MILLS, Chattanooga, Tenn.
Filed March 16, 1921. Serial No. 144,823. PUBLISHED AUGUST 2, 1921.

149,010. BLANKETS MADE OF WOOL AND COTTON OR COMBINATION OF WOOL AND COTTON. CHATHAM MANUFACTURING COMPANY, Winston-Salem, N. C.
Filed June 1, 1921. Serial No. 148,482. PUBLISHED AUGUST 9, 1921.

149,011. BLANKETS MADE OF WOOL AND COTTON OR COMBINATION OF WOOL AND COTTON. CHATHAM MANUFACTURING COMPANY, Winston-Salem, N. C.
Filed June 1, 1921. Serial No. 148,485. PUBLISHED AUGUST 9, 1921.

149,012. BLANKETS MADE OF WOOL AND COTTON OR COMBINATION OF WOOL AND COTTON. CHATHAM MANUFACTURING COMPANY, Winston-Salem, N. C.
Filed June 1, 1921. Serial No. 148,486. PUBLISHED AUGUST 9, 1921.

149,013. HATS. CHICAGO MERCANTILE COMPANY, Chicago, Ill.
Filed February 16, 1921. Serial No. 143,685. PUBLISHED AUGUST 9, 1921.

149,014. HAIR-NETS. NATHAN B. COHEN, Scranton, Pa.
Filed April 30, 1921. Serial No. 147,010. PUBLISHED JULY 19, 1921.

149,015. VENDING-MACHINES. COINSUM MANUFACTURING COMPANY, Philadelphia, Pa.
Filed April 5, 1921. Serial No. 145,780. PUBLISHED AUGUST 2, 1921.

149,016. A PUBLICATION ISSUED WEEKLY. THE COLE PUBLISHING COMPANY, Cleveland, Ohio.
Filed June 10, 1921. Serial No. 148,928. PUBLISHED AUGUST 9, 1921.

149,017. HOUSE MAGAZINE PUBLISHED MONTHLY. THE COLEMAN LAMP COMPANY, Wichita, Kans.
Filed May 25, 1921. Serial No. 148,214. PUBLISHED AUGUST 9, 1921.

149,018. A LAXATIVE. LAWRENCE A. COLLINS, Los Angeles, Calif.
Filed March 26, 1921. Serial No. 145,256. PUBLISHED JULY 12, 1921.

149,019. BLEACHED MUSLIN IN THE PIECE, SHEETS, PILLOW-CASES. COOPER, COATE & CASEY DRY GOODS CO., Los Angeles, Calif.
Filed June 6, 1921. Serial No. 148,718. PUBLISHED AUGUST 9, 1921.

149,020. BLEACHED MUSLINS IN THE PIECE, SHEETS, PILLOW-CASES. COOPER, COATE & CASEY DRY GOODS CO., Los Angeles, Calif.
Filed June 6, 1921. Serial No. 148,714. PUBLISHED AUGUST 9, 1921.

149,021. HOES, MACHETES, AND AXES, COLD ROLLED SHAFTING. CORNING INTERNATIONAL CORPORATION, New York, N. Y.
Filed September 7, 1920. Serial No. 136,872. PUBLISHED JULY 19, 1921.

149,022. COTTON PIECE GOODS, WORSTED PIECE GOODS, WOOLEN PIECE GOODS, AND LINEN PIECE GOODS. CORNING INTERNATIONAL CORPORATION, New York, N. Y.
Filed September 7, 1920. Serial No. 136,874. PUBLISHED JULY 19, 1921.

149,023. TOOL-STEELS AND STEEL BARS, WIRE, STEEL SHEETS, TIN-PLATE, AND HOOPS. CORNING INTERNATIONAL CORPORATION, New York, N. Y.
Filed September 7, 1920. Serial No. 136,875. PUBLISHED JULY 19, 1921.

149,024. SHOES MADE WHOLLY OR IN PART OF LEATHER. THE COTTER SHOE CO., Lynn, Mass.
Filed April 15, 1921. Serial No. 146,202. PUBLISHED AUGUST 2, 1921.

149,025. COUGH-DROPS. JAMES B. COUNCILL, Norfolk, Va.
Filed April 22, 1921. Serial No. 146,528. PUBLISHED AUGUST 9, 1921.

149,026. A NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGE SOLD AS A SOFT DRINK. USHER L. DAVIES, San Francisco, Calif.
Filed July 1, 1920. Serial No. 134,465. PUBLISHED AUGUST 16, 1921.

149,027. A PAINT COATING OR ENAMEL FOR IRON SURFACES. JACOB DAVIS, Arlington, N. J.
Filed January 9, 1920. Serial No. 126,956. PUBLISHED AUGUST 16, 1921.

149,028. TONICS AND DRESSINGS FOR THE TREATMENT OF THE HAIR AND SCALP. PEARL DAVIS, Birmingham, Ala.
Filed March 17, 1921. Serial No. 144,851. PUBLISHED JUNE 28, 1921.

149,029. STUFFED TOY DOGS. DAVIS AND VOETSCH, New York, N. Y.
Filed June 13, 1921. Serial No. 149,070. PUBLISHED AUGUST 9, 1921.

149,030. STUFFED TOY DOGS. DAVIS AND VOETSCH, New York, N. Y.
Filed June 13, 1921. Serial No. 149,071. PUBLISHED AUGUST 9, 1921.

149,031. COTTON PIECE GOODS—VIZ., GINGHAMS. DELGADO MILLS, Wilmington, N. C.
Filed May 23, 1921. Serial No. 148,377. PUBLISHED JULY 19, 1921.

149,032. CERTAIN GEARS AND DIFFERENTIAL-CASES FOR VEHICLE REAR AXLES. DETROIT BEVEL GEAR COMPANY, Detroit, Mich.
Filed March 26, 1921. Serial No. 145,258. PUBLISHED JULY 19, 1921.

149,033. HAIRPINS NOT OF PRECIOUS METAL. EDWARD BRADLEY DEWEY, Washington, D. C., and Winsted, Conn.
Filed May 24, 1921. Serial No. 148,132. PUBLISHED AUGUST 9, 1921.

149,034. SILK, WOOL, COTTON, SILK AND WOOL, TINSELED, LINEN, AND WORSTED YARNS AND FLOSS. DOMESTIC MILLS COMPANY, INC., Lowell, Mass.
Filed May 18, 1921. Serial No. 147,864. PUBLISHED JULY 19, 1921.

149,035. FOUNTAIN-PENS. DUNN PEN COMPANY, INC., New York, N. Y.
Filed May 12, 1921. Serial No. 147,603. PUBLISHED JULY 19, 1921.

149,036. FOUNTAIN-PENS. DUNN PEN COMPANY, INC., New York, N. Y.
Filed May 12, 1921. Serial No. 147,604. PUBLISHED JULY 19, 1921.

149,037. FOUNTAIN-PENS. DUNN PEN COMPANY, INC., New York, N. Y.
Filed May 12, 1921. Serial No. 147,605. PUBLISHED JULY 19, 1921.

149,038. VEHICLE SHOCK-ABSORBERS. DUPLEX SHOCK ABSORBER CORP., Chicago, Ill.
Filed May 23, 1921. Serial No. 148,061. PUBLISHED JULY 19, 1921.

149,039. SHADES OF GLAZED FABRIC. EASTERN ART SHOP, New York, N. Y.
Filed March 30, 1921. Serial No. 145,488. PUBLISHED AUGUST 9, 1921.

149,040. LEATHER SHOES. EDMONDS SHOE COMPANY, Milwaukee, Wis.
Filed April 18, 1921. Serial No. 146,302. PUBLISHED AUGUST 2, 1921.

149,041. LEATHER SHOES. EDMONDS SHOE COMPANY, Milwaukee, Wis.
Filed April 18, 1921. Serial No. 146,303. PUBLISHED AUGUST 2, 1921.

149,042. LEATHER SHOES. EDMONDS SHOE COMPANY, Milwaukee, Wis.
Filed April 18, 1921. Serial No. 146,304. PUBLISHED AUGUST 2, 1921.

149,043. CERTAIN NAMED PAPERS. THE EDUCATIONAL SUPPLY COMPANY, Painesville, Ohio.
Filed March 10, 1921. Serial No. 144,564. PUBLISHED JULY 12, 1921.

149,044. HORSE-RACING AMUSEMENT GAME APPARATUS. LOUIS A. ELKMAN, Philadelphia, Pa.
Filed March 24, 1921. Serial No. 145,158. PUBLISHED AUGUST 9, 1921.

149,045. HOT-AIR AND COMBINED HOT-AIR AND HOT-WATER HEATERS AND FURNACES. ESTATE OF P. D. BECKWITH, INC., Dowagiac, Mich.
Filed August 9, 1916. Serial No. 97,233. PUBLISHED AUGUST 16, 1921.

149,046. FILES. EVER SHARP FILE CO., Taunton, Mass.
Filed March 18, 1921. Serial No. 144,902. PUBLISHED JULY 19, 1921.

149,047. A CERTAIN NAMED MEDICINAL TONIC. DR. PETER FAHRNEY & SONS CO., Chicago, Ill.
Filed January 22, 1921. Serial No. 142,614. PUBLISHED AUGUST 9, 1921.

149,048. A MONTHLY PERIODICAL PUBLICATION. FARM PUBLISHING COMPANY, Des Moines, Iowa.
Filed May 16, 1921. Serial No. 147,778. PUBLISHED AUGUST 9, 1921.

149,049. MATS AND MATTING MADE WHOLLY OR PARTLY OF RUBBER. THE FEDERAL RUBBER COMPANY, Cudahy, Wis.
Filed April 28, 1921. Serial No. 146,886. PUBLISHED JULY 26, 1921.

149,050. MATS AND MATTING MADE WHOLLY OR PARTLY OF RUBBER. THE FEDERAL RUBBER COMPANY, Cudahy, Wis.
Filed April 28, 1921. Serial No. 146,900. PUBLISHED JULY 26, 1921.

149,051. A CERTAIN NAMED MEDICINAL PREPARATION. GEORGE FELLER, Cleveland, Ohio.
Filed March 24, 1921. Serial No. 145,159. PUBLISHED JULY 12, 1921.

149,052. SKIN-CREAM. L. Y. FIGUEROA & P. S. WALDORF CO., Milwaukee, Wis.
Filed March 8, 1921. Serial No. 144,455. PUBLISHED JULY 19, 1921.

149,053. CERTAIN NAMED JEWELRY. HENRY W. FISHEL & SONS, INC., New York, N. Y.
Filed April 26, 1921. Serial No. 146,759. PUBLISHED JULY 26, 1921.

149,054. CERTAIN NAMED JEWELRY. HENRY W. FISHEL & SONS, INC., New York, N. Y.
Filed April 26, 1921. Serial No. 146,760. PUBLISHED JULY 26, 1921.

149,055. PERFUMES. THE F. W. FITCH COMPANY, Des Moines, Iowa.
Filed March 30, 1921. Serial No. 145,446. PUBLISHED AUGUST 2, 1921.

149,056. A SALVE FOR PILES. GUSTAV T. FLOTO, Washington, D. C.
Filed March 5, 1921. Serial No. 144,325. PUBLISHED JULY 19, 1921.

149,057. A SELF-BLOWING TORCH. EMANUEL FOLGMAN, Brooklyn, N. Y.
Filed July 1, 1921. Serial No. 149,896. PUBLISHED AUGUST 9, 1921.

149,058. GOVERNORS FOR GOVERNING THE SPEED OF INTERNAL-COMBUSTION MOTORS. FORD DEALERS SUPPLY COMPANY, Indianapolis, Ind.
Filed March 25, 1921. Serial No. 145,208. PUBLISHED JULY 19, 1921.

149,059. SAFETY-PAPER. THE FORMAN BARRETT COMPANY, Cleveland, Ohio.
Filed May 2, 1921. Serial No. 147,100. PUBLISHED JULY 19, 1921.

149,060. SAFETY-PAPER. THE FORMAN BASSETT COMPANY, Cleveland, Ohio.
Filed May 2, 1921. Serial No. 147,101. PUBLISHED JULY 19, 1921.

149,061. FRESH PEACHES JUST AS TAKEN FROM THE TREE. LEWIS T. FOSS, Southern Pines, N. C.
Filed April 12, 1918. Serial No. 119,142. PUBLISHED AUGUST 16, 1921.

149,062. COLD-ROLLED HORSESHOE-NAILS. THE FOWLER NAIL CO., Seymour, Conn., assignor to The Fowler & Union Horse Nail Company, New Haven, Conn., a Corporation of Connecticut.
Filed May 7, 1919. Serial No. 118,221. PUBLISHED AUGUST 16, 1921.

149,063. COLD-ROLLED HORSESHOE-NAILS. THE FOWLER NAIL CO., Seymour, Conn., assignor to The Fowler & Union Horse Nail Company, New Haven, Conn., a Corporation of Connecticut.
Filed May 7, 1919. Serial No. 118,222. PUBLISHED AUGUST 16, 1921.

149,064. SHEET-RUBBER TIRE-PATCHES AND TUBE-PATCHES, BRAKE-LINING, TRANSMISSION-LINING, FAN-BELTS, AND RUBBER TUBES. J. W. FREEDLY, Conroe, Tex.
Filed April 11, 1921. Serial No. 146,008. PUBLISHED AUGUST 9, 1921.

149,065. WORK-COATS, WORK-SHIRTS, WORK-PANTS, WORK-TROUSERS, AND OVERALLS. FREELAND OVERALL MANUFACTURING CO., Freeland and Dubois, Pa.
Filed October 14, 1920. Serial No. 138,283. PUBLISHED JULY 19, 1921.

149,066. WOOLEN AND WORSTED CLOTH IN PIECE GOODS FOR MEN'S, WOMEN'S, AND CHILDREN'S WEAR. ALFRED C. GAUNT, Methuen, Mass.
Filed June 10, 1921. Serial No. 148,936. PUBLISHED AUGUST 2, 1921.

149,067. DYESTUFFS. GEIGY COMPANY, INC., New York, N. Y.
Filed April 13, 1921. Serial No. 146,117. PUBLISHED AUGUST 2, 1921.

149,068. WATCHES, WATCHCASES, WATCH-DIALS, WATCH-MOVEMENTS, AND ALARM-CLOCKS. EMIL GISIGER, Selsach, Switzerland, and New York, N. Y.
Filed May 10, 1920. Serial No. 132,242. PUBLISHED AUGUST 16, 1921.

149,069. PISTON-RINGS. GENERAL UTILITY COMPANY, Philadelphia, Pa.
Filed June 16, 1921. Serial No. 149,224. PUBLISHED AUGUST 9, 1921.

149,070. WATCHES, WATCHCASES, WATCH-DIALS, WATCH-MOVEMENTS, AND ALARM-CLOCKS. EMIL GISIGER, Selsach, Switzerland, and New York, N. Y.
Filed May 10, 1920. Serial No. 132,241. PUBLISHED AUGUST 16, 1921.

149,071. WATCHES, WATCHCASES, WATCH-DIALS, WATCH-MOVEMENTS, AND ALARM-CLOCKS. EMIL GISIGER, Selsach, Switzerland, and New York, N. Y.
Filed May 10, 1920. Serial No. 132,243. PUBLISHED AUGUST 16, 1921.

149,072. WATCHES, WATCHCASES, WATCH-DIALS, WATCH-MOVEMENTS, AND ALARM-CLOCKS. EMIL GISIGER, Selsach, Switzerland, and New York, N. Y.
Filed May 10, 1920. Serial No. 132,244. PUBLISHED AUGUST 16, 1921.

149,073. WATCHES, WATCHCASES, WATCH-DIALS, WATCH-MOVEMENTS, AND ALARM-CLOCKS. EMIL GISIGER, Selsach, Switzerland, and New York, N. Y.
Filed May 10, 1920. Serial No. 132,245. PUBLISHED AUGUST 16, 1921.

149,074. WATCHES, WATCHCASES, WATCH-DIALS, WATCH-MOVEMENTS, AND ALARM-CLOCKS. EMIL GISIGER, Selsach, Switzerland, and New York, N. Y.
Filed May 10, 1920. Serial No. 132,246. PUBLISHED AUGUST 16, 1921.

149,075. WATCHES, WATCHCASES, WATCH-DIALS, WATCH-MOVEMENTS, AND ALARM-CLOCKS. EMIL GISIGER, Selsach, Switzerland, and New York, N. Y.
Filed May 10, 1920. Serial No. 132,247. PUBLISHED AUGUST 16, 1921.

149,076. HAIR-NETS. S. GLEMBY'S SONS CO., INC., New York, N. Y.
Filed June 11, 1921. Serial No. 149,001. PUBLISHED AUGUST 2, 1921.

149,077. SILK PIECE GOODS. GOLDING FABRICS CORPORATION, New York, N. Y.
Filed May 31, 1921. Serial No. 148,488. PUBLISHED JULY 19, 1921.

149,078. A CHEMICAL PREPARATION FOR THE PROTECTION OF CURED MEAT FROM SKIPPERS OR OTHER INSECTS. E. E. GOOCH MANUFACTURING CO., Martin, Tenn.
Filed March 31, 1921. Serial No. 145,506. PUBLISHED AUGUST 9, 1921.

149,079. MILLING-CUTTERS, LATHE-BITS, DRILLS, AND REAMERS MADE OF HIGH-SPEED STEEL. THE G. C. GOODS COMPANY, Cleveland, Ohio.
Filed April 16, 1921. Serial No. 146,210. PUBLISHED AUGUST 2, 1921.

149,080. HOSIERY. GOODMAN HOSIERY MILLS, Indianapolis, Ind.
Filed April 6, 1921. Serial No. 145,783. PUBLISHED AUGUST 2, 1921.

149,081. HAIR-NETS. W. T. GRANT CO., New York, N. Y.
Filed April 28, 1921. Serial No. 146,907. PUBLISHED JULY 19, 1921.

149,082. COAL. GRAPHITE MINES CORPORATION, New York, N. Y.
Filed September 1, 1920. Serial No. 136,703. PUBLISHED JULY 19, 1921.

149,083. CERTAIN ARTICLES OF CLOTHING. MARION R. GRAY, Los Angeles, Calif.
Filed February 19, 1921. Serial No. 143,816. PUBLISHED AUGUST 2, 1921.

149,084. THREAD-CUTTING TAPS. GREENFIELD TAP AND DIE CORPORATION, Greenfield, Mass.
Filed March 16, 1921. Serial No. 144,907. PUBLISHED JULY 19, 1921.

149,085. BRILLIANTINE, FACE-POWDER, AND FACE-LOTION. MARIE MARTHE RICHARD VVE. GRENOVILLE, Asnières, France.
Filed March 24, 1921. Serial No. 145,193. PUBLISHED AUGUST 9, 1921.

149,086. PERFUMES, TOILET WATERS, BRILLIANTINE, FACE-POWDER, AND FACE-LOTION. MARIE MARTHE RICHARD VVE. GRENOVILLE, Asnières, France.
Filed March 24, 1921. Serial No. 145,194. PUBLISHED AUGUST 9, 1921.

149,087. AUTOMOBILE-RADIATOR CAPS. C. M. GREY MFG. CO., East Orange, N. J.
Filed April 27, 1921. Serial No. 146,825. PUBLISHED JULY 19, 1921.

149,088. COLORING MATERIALS FOR FOODS—NAMELY, VEGETABLE COLORS AND ANILIN COLORS. GEORGE V. GROSS & COMPANY, New York, N. Y., assignee to William A. Sherry, Los Angeles, Calif.
Filed March 11, 1921. Serial No. 144,618. PUBLISHED JUNE 28, 1921.

149,089. AUTOMOBILES, MOTOR-BOATS, AEROPLANES, MOTORCYCLES. GUY MOTORS LTD., Wolverhampton and Fallings Park, England.
Filed July 1, 1920. Serial No. 134,485. PUBLISHED AUGUST 16, 1921.

149,090. PREPARATION FOR RELIEF OF VENEREAL DISEASE. ALBERT C. GUERRERO, Kansas City, Mo.
Filed March 7, 1921. Serial No. 144,893. PUBLISHED JULY 19, 1921.

149,091. NECKTIES. EDWARD G. HAGEDORN, New York, N. Y.
Filed April 2, 1921. Serial No. 145,624. PUBLISHED AUGUST 9, 1921.

149,092. HAIR-NETS. HAIR NET IMPORTING COMPANY, INC., New York, N. Y.
Filed June 3, 1921. Serial No. 148,595. PUBLISHED JULY 19, 1921.

149,093. MEN'S, WOMEN'S, CHILDREN'S, AND INFANTS' HOSIERY. S. HALFF & CO., Los Angeles, Calif.
Filed March 28, 1921. Serial No. 145,337. PUBLISHED AUGUST 2, 1921.

149,094. WHEAT BREAD AND ROLLS, CAKES, AND PASTRY. FRANK L. HALL CO., Buffalo, N. Y.
Filed April 22, 1921. Serial No. 146,554. PUBLISHED AUGUST 9, 1921.

149,095. ENGINE-STARTING FLUIDS. THE HALL-THOMPSON COMPANY, Hartford, Conn.
Filed March 30, 1921. Serial No. 145,449. PUBLISHED AUGUST 9, 1921.

149,096. CHILDREN'S, MISSES', AND JUNIORS' DRESSES, COATS, ROMPERS, BLOOMERS, BLOUSES, WAISTS, APRONS, AND SKIRTS. THE HANOVER MFG. CO., Baltimore, Md.
Filed March 29, 1921. Serial No. 145,402. PUBLISHED AUGUST 2, 1921.

149,097. A PREPARATION FOR CLEANING METALS. THE HANSON & VAN WINKLE COMPANY, Newark, N. J.
Filed May 13, 1921. Serial No. 147,677. PUBLISHED JULY 19, 1921.

149,098. SHAMPOO. HARRAL SOAP CO., INC., Brooklyn, N. Y.
Filed March 24, 1921. Serial No. 145,164. PUBLISHED JULY 12, 1921.

149,099. PLURIGLANDULAR FORMULAS FOR THE TREATMENT OF AMENORRHEA, DYSMENORRHEA, AND NEURASTHENIA. HENRY R. HARROWER, Glendale, Calif.
Filed March 25, 1921. Serial No. 145,212. PUBLISHED AUGUST 9, 1921.

149,100. PLURIGLANDULAR FORMULAS FOR THE TREATMENT OF ASTHENIA, SUBOXIDATION, AND HYPOTENSION. HENRY R. HARROWER, Glendale, Calif.
Filed March 25, 1921. Serial No. 145,213. PUBLISHED AUGUST 9, 1921.

149,101. WHEAT-FLOUR. EDWIN C. HAWKINS, Paducah, Ky.
Filed October 20, 1920. Serial No. 138,561. PUBLISHED JULY 19, 1921.

149,102. A TONIC ALTERATIVE. FRANK C. HAZELRIGG, Indianapolis, Ind.
Filed March 31, 1921. Serial No. 145,508. PUBLISHED AUGUST 9, 1921.

149,103. LADIES' RAINCOATS. HEATONS (LEEDS,) LTD., Leeds, England.
Filed September 7, 1920. Serial No. 136,890. PUBLISHED JULY 19, 1921.

149,104. SERGES IN THE PIECE. HECHT & MENDES INCORPORATED, New York, N. Y.
Filed March 16, 1921. Serial No. 144,912. PUBLISHED JULY 19, 1921.

149,105. NAPPED COTTON, WOOL, OR SILK PIECE GOODS KNOWN COMMERCIALLY AS DUVETYN. HECHT & MENDES INCORPORATED, New York, N. Y.
Filed March 16, 1921. Serial No. 144,914. PUBLISHED JULY 19, 1921.

149,106. TOILET CREAM. JOHN F. HEJDA, Baltimore, Md.
Filed January 20, 1921. Serial No. 142,490. PUBLISHED AUGUST 2, 1921.

149,107. LEATHER FLOOR-MATS. FRANK B. HELIES, Elizabeth, N. J.
Filed May 7, 1921. Serial No. 147,349. PUBLISHED AUGUST 9, 1921.

149,108. A SALVE FOR CUTS, BOILS, ABSCESSES, CARBUNCLES, SORES, AND INFECTION. JOHN WM. HENDERSON, Charleston, W. Va.
Filed September 10, 1920. Serial No. 137,031. PUBLISHED JULY 12, 1921.

149,109. PUTTEES. CAL HIRSCH & SONS MERCANTILE CO., St. Louis, Mo., and Los Angeles, Calif.
Filed March 2, 1921. Serial No. 144,231. PUBLISHED JULY 12, 1921.

149,110. A MAGAZINE OR HOUSE ORGAN PUBLISHED AND ISSUED BY IT. THE H-O CEREAL COMPANY, INC., Buffalo, N. Y.
Filed May 13, 1921. Serial No. 147,667. PUBLISHED AUGUST 9, 1921.

149,111. LEATHER FOOTWEAR. HOLLAND SHOE CO., Holland, Mich.
Filed February 15, 1921. Serial No. 143,599. PUBLISHED JUNE 28, 1921.

149,112. YARNS. HOME WOOLEN MILLS, Eaton Rapids, Mich.
Filed May 5, 1921. Serial No. 147,242. PUBLISHED AUGUST 2, 1921.

149,113. CARBONATED SOFT DRINKS AND SYRUPS THEREFOR. H. P. HOOD & SONS, INC., Boston, Mass.
Filed May 18, 1921. Serial No. 147,878. PUBLISHED JULY 19, 1921.

149,114. LADIES' AND MEN'S HOSIERY. HOOVER HOSIERY CO., Concord, N. C.
Filed April 26, 1921. Serial No. 146,761. PUBLISHED AUGUST 9, 1921.

149,115. DISPLAY-SHELVES. THE H. B. HOWE COMPANY, Cincinnati, Ohio.
Filed May 6, 1921. Serial No. 147,287. PUBLISHED AUGUST 9, 1921.

149,116. RAZOR-STROPS. ILLINOIS RAZOR STROP COMPANY, Chicago, Ill.
Filed June 4, 1921. Serial No. 148,656. PUBLISHED JULY 26, 1921.

149,117. CERTAIN MACHINERY AND TOOLS. INGERSOLL-RAND COMPANY, Jersey City, N. J., and New York, N. Y.
Filed April 26, 1921. Serial No. 146,770. PUBLISHED AUGUST 23, 1921.

149,118. METAL BUILDINGS AND METAL-BUILDING SECTIONS. INTERNATIONAL HOUSING CORPORATION, Jersey City, N. J., and New York, N. Y.
Filed May 23, 1921. Serial No. 148,073. PUBLISHED AUGUST 9, 1921.

149,119. A MONTHLY MAGAZINE. INTERNATIONAL MAGAZINE COMPANY, New York, N. Y.
Filed May 26, 1921. Serial No. 148,278. PUBLISHED AUGUST 9, 1921.

149,120. SHADE-CLOTH. INTERSTATE SHADE CLOTH CO., Hoboken, N. J.
Filed May 3, 1921. Serial No. 147,164. PUBLISHED JULY 19, 1921.

149,121. DOLLS. IRONKEEN TRADING CORPORATION, New York, N. Y.
Filed April 21, 1921. Serial No. 146,488. PUBLISHED AUGUST 9, 1921.

149,122. CERTAIN NAMED GARBAGE-RECEIVERS. EDWIN A. JACKSON & BRO. INC., New York, N. Y.
Filed February 21, 1920. Serial No. 128,782. PUBLISHED AUGUST 16, 1921.

149,123. TALKING-BOARDS. MAX JACOBSON, New York, N. Y.
Filed April 21, 1920. Serial No. 131,428. PUBLISHED AUGUST 16, 1921.

149,124. CHILDREN'S OUTER SUITS, BOYS' BLOUSES, BOYS' NEGLIGÉE AND DRESS SHIRTS. J. H. JANOWITCH & JANOV, INC., New York, N. Y.
Filed April 2, 1921. Serial No. 145,080. PUBLISHED AUGUST 9, 1921.

149,125. BAKING-POWDER. JOHNSON-APPLEBY COMPANY, Boston, Mass.
Filed April 22, 1921. Serial No. 146,569. PUBLISHED AUGUST 9, 1921.

149,126. MINERS' CAPS. THOMAS R. JONES, Wilkes-Barre, Pa.
Filed April 26, 1921. Serial No. 146,772. PUBLISHED AUGUST 9, 1921.

149,127. GOLF-CLUBS. JORDAN MARSH COMPANY, Boston, Mass.
Filed May 21, 1921. Serial No. 148,027. PUBLISHED AUGUST 9, 1921.

149,128. OVER-ALLS, COVER-ALLS, TROUSERS. KAHN MANUFACTURING COMPANY, Mobile, Ala.
Filed February 12, 1921. Serial No. 143,499. PUBLISHED AUGUST 9, 1921.

149,129. MEN'S CLOTHES COMPRISING COATS, VESTS, AND TROUSERS. KAHN TAILORING COMPANY, Indianapolis, Ind.
Filed November 6, 1920. Serial No. 139,286. PUBLISHED AUGUST 2, 1921.

149,130. WASHING COMPOUND. THE W. A. KITTREDGE COMPANY, Tunkhannock, Pa.
Filed June 9, 1921. Serial No. 148,889. PUBLISHED JULY 26, 1921.

149,131. CERTAIN ARTICLES OF CLOTHING FOR MEN AND BOYS. JOSEPH M. KLEIN, New York, N. Y.
Filed January 28, 1921. Serial No. 142,887. PUBLISHED AUGUST 2, 1921.

149,132. LEATHER BOOTS AND SHOES. KNIPE BROS., INC., Haverhill, Mass.
Filed December 23, 1920. Serial No. 141,460. PUBLISHED AUGUST 9, 1921.

149,133. CERTAIN NAMED TOILET PREPARATION. G. S. KOLAR LABORATORIES, Chicago, Ill.
Filed April 22, 1921. Serial No. 146,564. PUBLISHED AUGUST 9, 1921.

149,134. GOLF-PUTTERS. KRAEUTER & CO. INC., Newark, N. J.
Filed April 16, 1921. Serial No. 146,263. PUBLISHED AUGUST 9, 1921.

149,135. A HAIR-RESTORATIVE. M. G. KRESS, Lorain, Ohio.
Filed March 22, 1921. Serial No. 145,070. PUBLISHED JULY 12, 1921.

149,136. A NON-INTOXICATING, MALTLESS, NON-CEREAL BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. OF ALCOHOL BY VOLUME. JOSEPH KRUG-FINK CO., INC., Jersey City, N. J.
Filed June 6, 1921. Serial No. 148,742. PUBLISHED JULY 19, 1921.

149,137. TOY MUSIC-BOXES. LANG & PFEIFFRICH, New Rochelle, N. Y.
Filed June 28, 1921. Serial No. 149,763. PUBLISHED AUGUST 9, 1921.

149,138. CERTAIN NAMED TOILET PREPARATIONS. LE BENART IMPORT CO. INC., New York, N. Y.
Filed March 26, 1921. Serial No. 145,276. PUBLISHED AUGUST 9, 1921.

149,139. CRANE-PIN RETURNING OR TRUING TOOLS. HARRY A. LEE, Kansas City, Mo.
Filed April 11, 1921. Serial No. 146,021. PUBLISHED AUGUST 2, 1921.

149,140. HUMAN AND ANIMAL HAIR. LOUIS LEVENSOHN, New York, N. Y.
Filed April 26, 1921. Serial No. 147,629. PUBLISHED JULY 19, 1921.

149,141. DRESS-FORM SETS. LIBERTY PAPER CO., New York, N. Y.
Filed May 16, 1921. Serial No. 147,786. PUBLISHED AUGUST 9, 1921.

149,142. SOLES AND HEELS MADE OF A COMBINATION OF RUBBER AND FABRIC. THE LIMA CORD SOLE & HEEL COMPANY, Lima, Ohio.
Filed April 1, 1921. Serial No. 145,571. PUBLISHED AUGUST 2, 1921.

149,143. MANURE-SPREADERS AND STRAW-SPREADERS. THE LITCHFIELD MANUFACTURING COMPANY, Waterloo, Iowa.
Filed April 18, 1921. Serial No. 146,128. PUBLISHED AUGUST 2, 1921.

149,144. TABLETS FOR WASHING FABRICS OF VARIOUS KINDS. LITTLE SERVANT MFG. CO., Jersey City, N. J.
Filed June 7, 1921. Serial No. 148,807. PUBLISHED AUGUST 9, 1921.

149,145. INFANTS' AND CHILDREN'S BOOTS AND SHOES, WHOLLY OR IN PART OF LEATHER AND CLOTH. THE LITTLE WITCH SHOE CO., Salem, Mass.
Filed February 17, 1921. Serial No. 143,697. PUBLISHED JUNE 28, 1921.

149,146. SELF-PROPELLED VEHICLES—NAMELY, TRUCKS. THE LOCOMOBILE COMPANY OF AMERICA, Bridgeport, Conn., and New York, N. Y., assignor to The Locomobile Company, Bridgeport, Conn., a Corporation of Delaware.
Filed March 21, 1919. Serial No. 116,784. PUBLISHED AUGUST 16, 1921.

149,147. LUBRICATING OILS AND GREASES. THE LUBRICANTS COMPANY, Dayton, Ohio.
Filed June 13, 1921. Serial No. 149,086. PUBLISHED AUGUST 9, 1921.

149,148. LAXATIVE TABLETS. MCCHILLUS MEDICAL CO., Crown Point, Ind.
Filed March 31, 1921. Serial No. 145,522. PUBLISHED AUGUST 9, 1921.

149,149. A HAIR-TONIC. LOUVENIA C. MCDONALD, Hartselle, Ala.
Filed March 22, 1921. Serial No. 145,073. PUBLISHED JULY 12, 1921.

149,150. A REMEDY FOR STOMACH, KIDNEY, LIVER, BLADDER, AND BLOOD TROUBLES AND RHEUMATISM AND NERVOUSNESS. REUBEN H. MACDONALD, Binghamton, N. Y.
Filed September 17, 1920. Serial No. 137,288. PUBLISHED AUGUST 2, 1921.

149,151. TONICS AND DRESSINGS FOR TREATMENT OF HAIR AND SCALP. EMMA L. MCDOWELL, Chicago, Ill.
Filed March 16, 1921. Serial No. 144,829. PUBLISHED JULY 19, 1921.

149,152. AN OUTER COVER-ALL GARMENT FOR CHILDREN. FRANCES WOODS MACKAY, Norwalk, Conn.
Filed April 2, 1921. Serial No. 145,696. PUBLISHED AUGUST 9, 1921.

149,153. BLANKET-BINDINGS AND TAPES. MACURDER SILK COMPANY, Macungie, Pa.
Filed April 30, 1921. Serial No. 147,093. PUBLISHED AUGUST 9, 1921.

149,154. APRONS. R. H. MACY & CO., INC., New York, N. Y.
Filed April 15, 1921. Serial No. 146,221. PUBLISHED AUGUST 2, 1921.

149,155. PUBLICATIONS PUBLISHED PERIODICALLY. MALONE & HYDE INC., Memphis, Tenn.
Filed June 1, 1921. Serial No. 148,500. PUBLISHED AUGUST 9, 1921.

149,156. SUITS FOR MEN, YOUNG MEN, BOYS, AND CHILDREN, OVERCOATS, MACKINAWS, PANTS, AND VESTS. ISAAC I. MARKUS, Scranton, Pa.
Filed April 22, 1921. Serial No. 146,572. PUBLISHED AUGUST 9, 1921.

149,157. TOILET PREPARATIONS—NAMELY, COLD-CREAM, TOILET WATER, AND TALCUM POWDER. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed April 22, 1921. Serial No. 146,539. PUBLISHED AUGUST 9, 1921.

149,158. SKIN-LOTION. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed April 22, 1921. Serial No. 146,540. PUBLISHED AUGUST 9, 1921.

149,159. HATS FOR GIRLS. MAY EVELYN HAT CO., New York, N. Y.
Filed April 15, 1921. Serial No. 146,223. PUBLISHED AUGUST 2, 1921.

149,160. WOOL UNDERWEAR FOR MEN, WOMEN, AND CHILDREN. THE MEDLICOTT COMPANY, Windsor Locks, Conn.
Filed April 28, 1921. Serial No. 146,643. PUBLISHED AUGUST 9, 1921.

149,161. AN ANTIDOTE AND SUBSTITUTE FOR TOBACCO. TRUST ESTATE OF ADOLPH C. MEYER, DECEASED, Baltimore, Md.
Filed March 11, 1921. Serial No. 144,631. PUBLISHED JULY 5, 1921.

149,162. FACE-POWDER AND ROUGE. PETER MEYER, New York, N. Y.
Filed March 8, 1921. Serial No. 144,467. PUBLISHED JULY 19, 1921.

149,163. SILK GOODS IN THE PIECE. J. A. MIGEL INC., New York, N. Y.
Filed May 17, 1921. Serial No. 147,836. PUBLISHED JULY 19, 1921.

149,164. PLAYING-CARDS. MIDLAND PLAYING CARD CO., La Fayette, Ind.
Filed June 3, 1921. Serial No. 148,607. PUBLISHED AUGUST 9, 1921.

149,165. BROAD SILK IN THE PIECE. J. A. MIGEL, INC., New York, N. Y.
Filed May 9, 1921. Serial No. 147,441. PUBLISHED JULY 19, 1921.

149,166. SILK GOODS IN THE PIECE. J. A. MIGEL INC., New York, N. Y.
Filed June 11, 1921. Serial No. 149,017. PUBLISHED AUGUST 2, 1921.

149,167. AUTOMOBILE-HEATER UTILIZING EXPLOSIVE-ENGINE-EXHAUST HEAT. MILLER-WEST COMPANY, Dayton, Ohio.
Filed April 25, 1921. Serial No. 146,727. PUBLISHED JULY 19, 1921.

149,168. CANDY. WILLIAM S. MILLIKEN, Brooklyn, N. Y.
Filed March 16, 1921. Serial No. 144,831. PUBLISHED JULY 12, 1921.

149,169. UNDERWEAR—NAMELY, OF KNITTED, AND TEXTILE FABRIC—FOR MEN, WOMEN, AND CHILDREN, AND HOSIERY. ISRAEL M. MINSKY, Milwaukee, Wis.
Filed March 10, 1921. Serial No. 144,583. PUBLISHED JULY 19, 1921.

149,170. LEATHERS. THE C. MONNICH SONS COMPANY, Boston, Mass.
Filed June 4, 1921. Serial No. 148,661. PUBLISHED JULY 26, 1921.

149,171. CASTINGS FOR PUMPS AND PUMPING PLANTS. MONARCH FOUNDRY COMPANY, Stockton, Calif.
Filed March 8, 1921. Serial No. 144,464. PUBLISHED JULY 12, 1921.

149,172. COTTON-SEED MEAL. C. L. MONTGOMERY, Memphis, Tenn.
Filed March 21, 1921. Serial No. 145,027. PUBLISHED JULY 19, 1921.

149,173. LUBRICATING-OIL FOR SPRINGS, RUSTY BOLTS, RODS, JOINTS, &c. MOON-SHINE MANUFACTURING COMPANY, Chillicothe, Mo.
Filed June 10, 1921. Serial No. 148,944. PUBLISHED AUGUST 9, 1921.

149,174. A COMPOUND FOR POLISHING GLASS, METAL, AND LIKE SURFACES. SEIBERT W. MORGAN, Baltimore, Md.
Filed May 18, 1921. Serial No. 147,887. PUBLISHED JULY 19, 1921.

149,175. BABY-PANTS. MORRIS, MANN & REILLY, Chicago, Ill.
Filed April 25, 1921. Serial No. 146,723. PUBLISHED AUGUST 9, 1921.

149,176. BABY-PANTS. MORRIS, MANN & REILLY, Chicago, Ill.
Filed April 25, 1921. Serial No. 146,724. PUBLISHED AUGUST 9, 1921.

149,177. TONICS AND DRESSINGS FOR THE TREATMENT OF THE HAIR AND SCALP. LUELLA MUMFORD, Lehigh, Ala.
Filed March 18, 1921. Serial No. 144,932. PUBLISHED JUNE 28, 1921.

149,178. FACE-CREAM. RODMAN MYERS, San Antonio, Tex.
Filed April 11, 1921. Serial No. 146,026. PUBLISHED AUGUST 2, 1921.

149,179. SOAPS. NAAMLOOZE VENNOOTSCHAP: EAU DE COLOGNEFABRIEK VOORHEEN J. C. BOLDOOT, Amsterdam, Netherlands.
Filed May 18, 1921. Serial No. 147,888. PUBLISHED JULY 19, 1921.

149,180. A SOAP CREAM USED BEFORE SHAVING. NATIONAL DRUG STORES CORP., New York, N. Y.
Filed June 6, 1921. Serial No. 148,752. PUBLISHED AUGUST 9, 1921.

149,181. SHOCK-ABSORBERS FOR VEHICLES. THE NATIONAL STEEL PRODUCTS COMPANY, Dayton, Ohio.
Filed June 11, 1921. Serial No. 149,021. PUBLISHED AUGUST 2, 1921.

149,182. CERTAIN NAMED TOYS. NATIONAL TOY AND TINSEL MFG. CO., Manitowoc, Wis.
Filed January 22, 1920. Serial No. 127,484. PUBLISHED AUGUST 16, 1921.

149,183. BATHING-ROMPERS. NEUMAN & RUBIN, Philadelphia, Pa.
Filed March 11, 1921. Serial No. 144,632. PUBLISHED JULY 19, 1921.

149,184. READY-MIXED AND WATERPROOFING PAINTS, AND WATERPROOFING-FILLERS IN THE NATURE OF PAINT. NEW PROCESS CHEMICAL CO., INC., New York, N. Y.
Filed March 21, 1919. Serial No. 116,786. PUBLISHED AUGUST 16, 1921.

149,185. A LIQUID USED FOR THE PURPOSE OF CLEANING CLOTHING. THE L. V. NICHOLAS OIL COMPANY, Omaha, Nebr.
Filed May 7, 1921. Serial No. 147,370. PUBLISHED AUGUST 9, 1921.

149,186. PISTON-RINGS. NO-LEAK-O PISTON RING COMPANY, Baltimore, Md.
Filed June 3, 1921. Serial No. 148,618. PUBLISHED JULY 19, 1921.

149,187. SHOES MADE OF LEATHER, RUBBER, FABRIC, OR COMBINATION OF SAME. Northern Jobbing Company, Chicago, Ill.
Filed March 18, 1921. Serial No. 144,996. PUBLISHED JULY 19, 1921.

149,188. OIL-WELL PUMPS, VALVES AND OTHER PARTS OF PUMPS, AND OIL-WELL PUMPING EQUIPMENT. Moorehead Equipment Company, Parkersburg, W. Va.
Filed March 24, 1921. Serial No. 145,171. PUBLISHED JULY 19, 1921.

149,189. BREAD. Northwestern Distributing Co., Billings, Mont.
Filed April 27, 1921. Serial No. 146,841. PUBLISHED JULY 19, 1921.

149,190. MEN'S SUSPENDERS AND HOSE-SUPPORTER. Nu-Way Stretch Suspender Co., Adrian, Mich.
Filed April 29, 1921. Serial No. 146,976. PUBLISHED AUGUST 9, 1921.

149,191. WOMEN'S AND CHILDREN'S HATS. Osus Rabinovich & Osus Co., Chicago, Ill.
Filed March 7, 1921. Serial No. 144,412. PUBLISHED JULY 19, 1921.

149,192. COLLARS. Oppenheim, Obendorf & Co. Inc., Baltimore, Md.
Filed April 26, 1921. Serial No. 146,777. PUBLISHED AUGUST 9, 1921.

149,193. A MEDICINE FOR THE TREATMENT OF INDIGESTION. Orange Chemical Co., Orange, Tex.
Filed March 18, 1921. Serial No. 144,938. PUBLISHED JULY 5, 1921.

149,194. WINDOW AND DOOR SCREENS AND SCREENED-PORCH INCLOSURES. Orange Screen Co., South Orange, N. J.
Filed September 23, 1920. Serial No. 137,539. PUBLISHED JULY 19, 1921.

149,195. MOLDERS' BELLOWS AND SHOVELS. The Osborn Manufacturing Company, Cleveland, Ohio.
Filed March 15, 1921. Serial No. 144,782. PUBLISHED JULY 19, 1921.

149,196. CLOTH SHOES AND SLIPPERS. Outing Shoe Company, Boston, Mass.
Filed April 18, 1921. Serial No. 146,328. PUBLISHED AUGUST 2, 1921.

149,197. POLISHING-CLOTHS FOR GOLD, SILVER, AND ALL PRECIOUS METALS. L. G. Pearson Corp., Niagara Falls, N. Y.
Filed May 17, 1921. Serial No. 147,847. PUBLISHED AUGUST 9, 1921.

149,198. FUEL-OILS. Penn Oil Co., Rossiyn, Va.
Filed March 10, 1921. Serial No. 144,588. PUBLISHED JULY 26, 1921.

149,199. RANGE-BOILERS. Pennsylvania Range Boiler Co., Philadelphia, Pa.
Filed April 26, 1921. Serial No. 146,781. PUBLISHED JULY 19, 1921.

149,200. GREASE STOCK. The Philip Carey Manufacturing Company, Lockland, Ohio.
Filed March 28, 1921. Serial No. 145,318. PUBLISHED AUGUST 9, 1921.

149,201. PETROLEUM PRODUCTS CONSISTING OF GASOLENE, KEROSENE, LUBRICATING-OILS, LUBRICATING-GREASES, AND PARAFFIN-WAX. Pierce Oil Corporation, Richmond, Va., and New York, N. Y.
Filed March 8, 1921. Serial No. 144,472. PUBLISHED JULY 12, 1921.

149,202. WOOLEN AND WORSTED PIECE GOODS. Pontoosuc Woolen Mfg. Co., Pittsfield, Mass.
Filed May 11, 1921. Serial No. 147,572. PUBLISHED JULY 19, 1921.

149,203. SLICED PREPARED TOAST IN PACKAGES. The Puritan Baking Co., Seattle, Wash., assignor to Crumb-O'Toast Company, Seattle, Wash., a Corporation of Washington.
Filed February 26, 1921. Serial No. 144,140. PUBLISHED JULY 12, 1921.

149,204. A PAPER CUT-OUT GAME FOR CHARACTER ANALYSIS. The Porter Chemical Company, Hagerstown, Md.
Filed June 10, 1921. Serial No. 146,096. PUBLISHED AUGUST 9, 1921.

149,205. A FOOD COMPOSED OF WHEAT-BRAN, FLOUR, PRUNES, HONEY, AND MILK. Prunola Health Food Company, Hutchinson, Kans.
Filed September 27, 1920. Serial No. 137,975. PUBLISHED JULY 19, 1921.

149,206. [WITHDRAWN.]

149,207. A CERTAIN NAMED MEDICINAL PREPARATION. The Puritan Drug Mfg. Co., Columbus, Ohio.
Filed April 23, 1921. Serial No. 146,643. PUBLISHED AUGUST 9, 1921.

149,208. A CERTAIN NAMED MEDICINAL PREPARATION. The Puritan Drug Mfg. Co., Columbus, Ohio.
Filed April 23, 1921. Serial No. 146,699. PUBLISHED AUGUST 9, 1921.

149,209. AUTOMOBILE-BUMPERS. Ramspring Bumper Co., Chicago, Ill.
Filed May 12, 1921. Serial No. 147,041. PUBLISHED AUGUST 2, 1921.

149,210. WHEAT-FLOUR. The Red Star Milling Company, Wichita, Kans.
Filed February 5, 1921. Serial No. 143,221. PUBLISHED AUGUST 9, 1921.

149,211. MEN'S AND BOYS' KNITTED CAPS. Regent Knitting Corporation, Syracuse, N. Y.
Filed April 6, 1921. Serial No. 145,795. PUBLISHED AUGUST 2, 1921.

149,212. SHOES MADE OF LEATHER, FABRIC, RUBBER, OR THE COMBINATION OF THE SAME. Bion F. Reynolds, Brockton, Mass.
Filed March 10, 1921. Serial No. 144,590. PUBLISHED AUGUST 9, 1921.

149,213. SHINGLES. Reynolds Company, Limited, Vancouver, British Columbia, Canada.
Filed August 23, 1919. Serial No. 121,944. PUBLISHED AUGUST 16, 1921.

149,214. HAIR-NETS. The Riesser Company, New York, N. Y.
Filed May 6, 1921. Serial No. 147,317. PUBLISHED JULY 19, 1921.

149,215. CERTAIN NAMED CONSTRUCTION MATERIALS. Ricerson Company, Limited, Montreal, Quebec, Canada.
Filed March 22, 1921. Serial No. 145,062. PUBLISHED JULY 19, 1921.

149,216. OINTMENT FOR THE TREATMENT OF HEMORRHOIDS. George W. D. Robbins, Pasadena, Calif.
Filed April 12, 1921. Serial No. 146,085. PUBLISHED AUGUST 2, 1921.

149,217. PRINTED AND ENGRAVED MATTER. W. F. Roberts Company Inc., Washington, D. C.
Filed June 23, 1921. Serial No. 149,559. PUBLISHED AUGUST 9, 1921.

149,218. CREPE AND SILK IN THE PIECE. Louis Rossbel & Co. Inc., New York, N. Y.
Filed May 20, 1921. Serial No. 147,993. PUBLISHED JULY 19, 1921.

149,219. MAGAZINES AND PAMPHLETS PUBLISHED MONTHLY. Rose and Company, New York, N. Y.
Filed April 22, 1921. Serial No. 146,502. PUBLISHED AUGUST 9, 1921.

149,220. WATERPROOF BABY-PANTS. Rubberized Sheeting & Specialty Co. Inc., New York, N. Y.
Filed April 22, 1920. Serial No. 124,903. PUBLISHED MARCH 8, 1921.

149,221. PILE FABRICS IN THE PIECE. The Ball's Textile Manufacturing Company, Bridgeport, Conn., and New York, N. Y.
Filed June 8, 1921. Serial No. 146,930. PUBLISHED JULY 19, 1921.

149,222. RUBBER PANTS FOR INFANTS' WEAR. Sanitary Rubber Novelty Mfg. Co., Chicago, Ill.
Filed April 11, 1921. Serial No. 146,089. PUBLISHED AUGUST 2, 1921.

149,223. DISINFECTANTS, INSECTICIDES, AND DEODORANTS. The Sanitas Company, Inc., Jersey City, N. J., and Brooklyn, N. Y.
Filed April 22, 1921. Serial No. 146,600. PUBLISHED AUGUST 9, 1921.

149,224. DISINFECTANTS, INSECTICIDES, AND DEODORANTS. The Sanitas Company, Inc., Jersey City, N. J., and Brooklyn, N. Y.
Filed April 22, 1921. Serial No. 146,601. PUBLISHED AUGUST 9, 1921.

149,225. DISINFECTANTS, INSECTICIDES, AND DEODORANTS. The Sanitas Company, Inc., Jersey City, N. J., and Brooklyn, N. Y.
Filed April 22, 1921. Serial No. 146,602. PUBLISHED AUGUST 9, 1921.

149,226. DISINFECTANTS AND AIR-CONDITIONING PREPARATIONS. The Sanitas Company, Inc., Jersey City, N. J., and Brooklyn, N. Y.
Filed April 22, 1921. Serial No. 146,603. PUBLISHED AUGUST 9, 1921.

149,227. HAIRPINS AND COMBS, NOT INCLUDING GOODS MADE OF PRECIOUS METAL. Tom W. Saul, Seattle, Wash.
Filed May 9, 1921. Serial No. 147,472. PUBLISHED AUGUST 9, 1921.

149,228. A DISINFECTING AND CLEANSING COMPOUND. Sawyer Crystal Blue Company, Boston, Mass.
Filed March 23, 1921. Serial No. 145,129. PUBLISHED JULY 12, 1921.

149,229. CERTAIN NAMED LEATHER PACKINGS. Chas. A. Schieren Company, New York, N. Y.
Filed March 3, 1921. Serial No. 144,300. PUBLISHED JULY 12, 1921.

149,230. METAL-GRINDING MACHINES. B. L. Schmidt Company, Davenport, Iowa.
Filed March 2, 1921. Serial No. 144,257. PUBLISHED JULY 12, 1921.

149,231. A DOLL WITH FLEXIBLE JOINTS. Martin R. Schnack, Los Angeles, Calif.
Filed May 12, 1921. Serial No. 147,642. PUBLISHED AUGUST 9, 1921.

149,232. NON-INTOXICATING BEVERAGES. Henry P. Schroeder, St. Louis, Mo.
Filed May 22, 1920. Serial No. 132,817. PUBLISHED AUGUST 16, 1921.

149,233. WRENCHES. Emil Schwarz, Chicago, Ill.
Filed April 27, 1921. Serial No. 146,851. PUBLISHED AUGUST 2, 1921.

149,234. COTTON PIECE GOODS—NAMELY, MUSLIN, CAMBRIC, LONG-CLOTH, AND NAINSOOK. Sears, Roebuck and Co., Chicago, Ill.
Filed September 25, 1920. Serial No. 137,638. PUBLISHED JULY 19, 1921.

149,235. PETTICOATS, SWEATERS, SCARFS, BATHING-SUITS, BLOOMERS, CARDIGAN JACKETS, CAPS, AND SKIRTS. D. W. Shoyer & Co., New York, N. Y.
Filed January 13, 1921. Serial No. 142,238. PUBLISHED MAY 10, 1921.

149,236. BLOCK-SIGNALS AND RAILWAY-SWITCHES AND PARTS THEREOF, GRINDING AND DRILLING MACHINES, AND VISES. Signal Accessories Corporation, Utica, N. Y.
Filed September 25, 1920. Serial No. 137,633. PUBLISHED JULY 19, 1921.

149,237. DRESS, NEGLIGÉE, AND WORK SHIRTS. Louis Silpin, New York, N. Y.
Filed February 19, 1921. Serial No. 143,845. PUBLISHED AUGUST 9, 1921.

149,238. NON-INFLAMMABLE CLEANING FLUID. William B. Simpers, New York, N. Y.
Filed May 6, 1921. Serial No. 147,319. PUBLISHED JULY 19, 1921.

149,239. AUTOMOBILES AND LORRIES. Société Lyonnaise d'Industrie Mécanique, Lyon-St. Clair-Caluire, France.
Filed July 19, 1920. Serial No. 135,175. PUBLISHED AUGUST 16, 1921.

149,240. A CERTAIN NAMED MEDICINAL PREPARATION. Hamdy Solomon, Holliday, Mo.
Filed March 31, 1921. Serial No. 145,536. PUBLISHED AUGUST 9, 1921.

149,241. TOOTH-PASTE. Samuel M. Solomon, Chicago, Ill.
Filed February 26, 1921. Serial No. 144,110. PUBLISHED JULY 12, 1921.

149,242. CANDY. Stoneb's, Chicago, Ill.
Filed January 11, 1921. Serial No. 142,110. PUBLISHED AUGUST 9, 1921.

149,243. CANDY. Stoneb's, Chicago, Ill.
Filed April 26, 1921. Serial No. 146,784. PUBLISHED JULY 19, 1921.

149,244. MACKINAWS AND OVERCOATS. Spokane Dry Goods Company, Spokane, Wash.
Filed April 22, 1921. Serial No. 146,596. PUBLISHED AUGUST 9, 1921.

149,245. TALCUM AND FACE POWDERS, PERFUMES, AND BATH-SALTS. Jacob J. Spooner, New York, N. Y.
Filed March 5, 1921. Serial No. 144,355. PUBLISHED JULY 12, 1921.

149,246. WHEAT-FLOUR. Stafford Flour Mills Co., Stafford, Kans.
Filed September 29, 1920. Serial No. 137,746. PUBLISHED FEBRUARY 1, 1921.

149,247. INNER-TUBE-REPAIR KITS. Leslie Stafford, La Salle, Ill.
Filed March 31, 1921. Serial No. 145,535. PUBLISHED AUGUST 2, 1921.

149,248. A LIGHT NAPHTHA ESPECIALLY ADAPTED FOR SOLVENT PURPOSES. Standard Oil Company, Bayonne, N. J., and New York, N. Y.
Filed May 4, 1921. Serial No. 147,214. PUBLISHED AUGUST 9, 1921.

149,249. A WHITE MINERAL OIL. Standard Oil Company, Bayonne, N. J., and New York, N. Y.
Filed June 4, 1921. Serial No. 148,675. PUBLISHED AUGUST 2, 1921.

149,250. CERTAIN NAMED TOILET PREPARATIONS. Ste. Anonyme des Produits Dorilly, Paris, France.
Filed February 16, 1921. Serial No. 143,669. PUBLISHED AUGUST 9, 1921.

149,251. CHILDREN'S COLLARS, DRESS-SHIRTS, NEGLIGÉE SHIRTS, BLOUSES, UNDERSHIRTS, DRAWERS, UNION-SUITS, AND PAJAMAS. Walter M. Steffachee & Bro., Inc., Philadelphia, Pa.
Filed March 5, 1921. Serial No. 144,354. PUBLISHED AUGUST 2, 1921.

149,252. PAPER TOWELS. Stevens & Thompson Paper Company, Greenwich, N. Y.
Filed May 25, 1921. Serial No. 148,248. PUBLISHED JULY 19, 1921.

149,252. LUBRICATING-OILS. Sun Company, Philadelphia, Pa.
Filed May 17, 1921. Serial No. 147,256. PUBLISHED AUGUST 9, 1921.

149,254. HOSIERY FOR MEN, WOMEN, AND CHILDREN. Surpass Hosiery Co., Philadelphia, Pa.
Filed February 28, 1921. Serial No. 144,163. PUBLISHED JULY 19, 1921.

149,255. PLIERS. Cyrus B. Swihart, Harpster, Ohio.
Filed March 29, 1921. Serial No. 145,419. PUBLISHED AUGUST 9, 1921.

149,256. UNDERWEAR—NAMELY, CHEMISES, BLOOMERS, CAMISOLES, PETTICOATS, VESTS, NIGHTGOWNS, PAJAMAS, SHIRTS, AND DRAWERS. Tallassee Mills Underwear Co., New York, N. Y.
Filed January 11, 1921. Serial No. 142,135. PUBLISHED AUGUST 9, 1921.

149,257. BUTTER, EGGS, AND POULTRY. Tatham and Company, Chicago, Ill.
Filed April 23, 1921. Serial No. 146,741. PUBLISHED JULY 19, 1921.

149,258. CERTAIN NAMED PENCILS AND CRAYONS. The Thomson-Dixon Company, Sacramento, Calif.
Filed May 24, 1921. Serial No. 148,177. PUBLISHED JULY 19, 1921.

149,259. MONTHLY MAGAZINES. The Torbell Company, Boston, Mass.
Filed May 18, 1921. Serial No. 147,693. PUBLISHED AUGUST 9, 1921.

149,260. CHOCOLATES. The Toussaint Company, Boston, Mass.
Filed April 12, 1921. Serial No. 146,095. PUBLISHED AUGUST 2, 1921.

149,261. ARC-WELDING METAL ELECTRODES. Transportation Engineering Corporation, New York, N. Y.
Filed March 26, 1921. Serial No. 145,294. PUBLISHED JULY 19, 1921.

149,262. FACE-POWDER. The Tremonte Co., Philadelphia, Pa.
Filed January 18, 1921. Serial No. 142,430. PUBLISHED AUGUST 9, 1921.

149,263. A DISINFECTANT, A BEDBUG PREPARATION, AND MOSQUITO-LOTION. C. E. Trichel, Shreveport, La.
Filed March 23, 1921. Serial No. 145,137. PUBLISHED JULY 12, 1921.

149,264. CANDY. Tru-Blu Biscuit Company, Spokane, Wash.
Filed March 8, 1921. Serial No. 144,483. PUBLISHED JULY 19, 1921.

149,265. CANDY. Tru-Blu Biscuit Company, Spokane, Wash.
Filed March 8, 1921. Serial No. 144,486. PUBLISHED JULY 19, 1921.

149,266. CANDY. Tru-Blu Biscuit Company, Spokane, Wash.
Filed March 8, 1921. Serial No. 144,488. PUBLISHED JULY 19, 1921.

149,267. INFANTS' AND CHILDREN'S BOOTS AND SHOES MADE WHOLLY OR PARTLY OF LEATHER AND CLOTH. Towle & Sherrick, Lynn, Mass.
Filed April 18, 1921. Serial No. 146,241. PUBLISHED AUGUST 2, 1921.

149,268. GASOLENE INDUSTRIAL TRACTORS. The Townotor Company, Cleveland, Ohio.
Filed January 12, 1921. Serial No. 142,199. PUBLISHED AUGUST 9, 1921.

149,269. RHEUMATISM MEDICINES. Archibald Paul Wentworth Twombly, Waltham, Mass.
Filed March 18, 1921. Serial No. 144,946. PUBLISHED JULY 5, 1921.

149,270. A PREPARATION USED AS A POLISH AND AS A CLEANSER. United Refining Chemical Products Company, Chicago, Ill.
Filed July 31, 1920. Serial No. 135,675. PUBLISHED AUGUST 9, 1921.

149,271. PRINTED PUBLICATIONS, MAGAZINES, AND PERIODICALS ISSUED REGULARLY, AND FOR SUPPLEMENTS THERETO. United Business Service Company, Wellesley, and Wellesley Hills, Mass., and Washington, D. C.
Filed May 26, 1921. Serial No. 148,250. PUBLISHED JULY 19, 1921.

149,272. HOSIERY. United Hosiery Company, New York, N. Y.
Filed April 4, 1921. Serial No. 145,726. PUBLISHED AUGUST 2, 1921.

149,273. GOLF-BALLS. United States Rubber Company, New Brunswick, N. J., and New York, N. Y.
Filed April 16, 1921. Serial No. 146,280. PUBLISHED AUGUST 9, 1921.

149,274. INFANTS' AND CHILDREN'S COLORED WASH-DRESSES. Universal Childrens Dress Co. Inc., New York, N. Y.
Filed February 2, 1921. Serial No. 143,109. PUBLISHED AUGUST 2, 1921.

149,275. TELEPHONES AND PARTS THEREOF, LOUD-SPEAKING OR ANNOUNCING TELEPHONES, AND MUSIC-TRANSMITTING TELEPHONES. The Universal High-Power Telephone Company, Seattle, Wash.
Filed October 2, 1919. Serial No. 328,460. PUBLISHED AUGUST 16, 1921.

149,276. FROSTINGS FOR PASTRIES. Charles H. Valin, Wellesley, Mass.
Filed March 24, 1921. Serial No. 145,183. PUBLISHED JULY 19, 1921.

149,277. CLAY USED AS A FILLER IN THE MANUFACTURE OF PAPER AND AS A COATING FOR WALL-PAPER. R. T. Vanderbilt Co., Inc., New York, N. Y.
Filed June 6, 1921. Serial No. 148,777. PUBLISHED JULY 26, 1921.

149,278. RUBBER AND FABRIC OUTER CASINGS FOR PNEUMATIC AUTOMOBILE-TIRES AND INNER TUBES FOR AUTOMOBILE PNEUMATIC TIRES. The Victor Rubber Company, Springfield, Ohio.
Filed May 16, 1921. Serial No. 147,900. PUBLISHED AUGUST 9, 1921.

149,279. BACTERIOLOGICAL STARTING CULTURE. The Vitalait Laboratory, Newton and Newton Center, Mass.
Filed April 12, 1921. Serial No. 146,097. PUBLISHED AUGUST 9, 1921.

149,280. MEDICINAL PREPARATION USED IN THE TREATMENT OF BILIOUSNESS, CONSTIPATION. Horace C. Wagner, Walters, Okla.
Filed January 17, 1921. Serial No. 142,873. PUBLISHED AUGUST 9, 1921.

149,281. WAISTS. Waistcraft Corporation, New York, N. Y.
Filed March 31, 1921. Serial No. 145,538. PUBLISHED AUGUST 9, 1921.

149,282. CITRUS FRUITS IN THEIR NATURAL STATE. William Watt, Mount Dora, Fla.
Filed March 28, 1921. Serial No. 145,378. PUBLISHED AUGUST 9, 1921.

149,283. INDOOR AND LAWN HORSESHOE GAMES. Wayne Paper Goods Company, Fort Wayne, Ind.
Filed February 7, 1921. Serial No. 143,206. PUBLISHED AUGUST 2, 1921.

149,284. MUD MASSAGE-CREAM, COLD-CREAM, VANISHING CREAM, AND FACE-POWDER. Weichsel Laboratories, Dallas, Tex.
Filed March 9, 1921. Serial No. 144,554. PUBLISHED JULY 19, 1921.

149,285. GENERAL TONICS. Frank A. Weinstein, Pittsburgh, Pa.
Filed April 22, 1921. Serial No. 146,610. PUBLISHED AUGUST 9, 1921.

149,286. LUBRICANT PREVENTING CARBON FROM USE IN COMBUSTION [illegible] INTERNAL-COMBUSTION ENGINES. Ernest M. White, Los Angeles, Calif.
Filed April 16, 1921. Serial No. 146,244. PUBLISHED AUGUST 2, 1921.

149,287. THREE AND FOUR WHEELED PLAY-WAGONS AND COASTERS. [illegible] Company, North Bennington, Vt.
Filed April 12, 1921. Serial No. 146,101. PUBLISHED AUGUST 9, 1921.

149,288. CRUDE ABRASIVE MATERIAL, CRUSHED ABRASIVE MATERIAL, (UNGRADED,) AND ABRASIVE GRAINS. The White Heat Products Company, West Chester, Pa.
Filed April 9, 1921. Serial No. 145,962. PUBLISHED AUGUST 2, 1921.

149,289. A CERTAIN NAMED MEDICINAL PREPARATION. Albert S. Whiteside, Chattanooga, Tenn.
Filed April 22, 1921. Serial No. 146,607. PUBLISHED AUGUST 9, 1921.

149,290. CANDY. Stephen F. Whitman & Son, Inc., Philadelphia, Pa.
Filed March 19, 1921. Serial No. 144,994. PUBLISHED JULY 19, 1921.

149,291. HAIR-GROWER. Laura Wiley, New York, N. Y.
Filed March 9, 1921. Serial No. 144,555. PUBLISHED JULY 19, 1921.

149,292. STEEL-WOOL. The Williams Company, London, Ohio.
Filed May 23, 1921. Serial No. 148,100. PUBLISHED JULY 26, 1921.

149,293. COTTON PIECE GOODS—NAMELY, BLEACHED AND BROWN SHEETINGS. Williams-Richardson Company, Ltd., New Orleans, La.
Filed May 4, 1921. Serial No. 147,222. PUBLISHED JULY 19, 1921.

149,294. TOOTH-PASTE. Robert Irving Willmarth, Jersey City, N. J., assignor to The Diadem Company, a Corporation of New Jersey.
Filed March 9, 1921. Serial No. 144,553. PUBLISHED JULY 19, 1921.

149,295. COMB AND EXTRACTED HONEY. Wisconsin Honey Farm, Oconomowoc, Wis.
Filed March 21, 1921. Serial No. 145,051. PUBLISHED JULY 19, 1921.

149,296. A CERTAIN NAMED MEDICINAL PREPARATION. Emil Wolfram, Columbus, Ohio.
Filed March 17, 1921. Serial No. 144,889. PUBLISHED JULY 5, 1921.

149,297. WOOLEN GOODS IN THE PIECE. Woombo Manufacturing Company, Bath, Me.
Filed May 9, 1921. Serial No. 147,460. PUBLISHED JULY 12, 1921.

149,298. [WITHDRAWN.]

149,299. GINGHAM IN THE PIECE. York Mfg. Co., Saco, Me., and Boston, Mass.
Filed May 4, 1921. Serial No. 147,226. PUBLISHED AUGUST 2, 1921.

TRADE-MARK REGISTRATIONS GRANTED

(ACT OF MARCH 19, 1920, SEC. 1 (b)).

DECEMBER 6, 1921.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

149,300. (CLASS 39. CLOTHING.) ANNA R. ALSTON, New York, N. Y. Filed Apr. 11, 1921. Serial No. 145,989.

ALSTON
HOLD-U-THERE
BRASSIERE

Particular description of goods.—Elastic Corsets, Brassières, and Leg-Garments.
Claims use since October, 1918.

149,301. (CLASS 39. CLOTHING.) ANNA R. ALSTON, New York, N. Y. Filed Apr. 11, 1921. Serial No. 145,990.

ALSTON FIGURE FORM

Particular description of goods.—Elastic Corsets, Brassières, and Leg-Garments.
Claims use since October, 1918.

149,302. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) AMERICAN STANDARD TOURNIQUET COMPANY, Portland, Me. Filed June 10, 1921. Serial No. 148,914.

ROBINSON

Particular description of goods.—Tourniquets, First-Aid Belts, Bandages, and Fracture-Splint Holders.
Claims use since about Oct. 1, 1917.

149,303. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) BEN F. BARBOUR, Birmingham, Ala. Filed Jan. 24, 1921. Serial No. 142,690.

Co-Line

Particular description of goods.—A Non-Alcoholic, Maltless, Carbonated Beverage Not of a Cereal Nature Sold as Soft Drinks and Syrups for the Manufacture of the Same.
Claims use since September, 1919.

149,304. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOUIS BRAVE, New York, N. Y. Filed June 24, 1920. Serial No. 134,165.

DR. BRAVE'S

Particular description of goods.—Dentifrice.
Claims use since June 19, 1920.

149,305. (CLASS 27. HOROLOGICAL INSTRUMENTS.) BURLINGTON WATCH CO., Chicago, Ill. Filed Sept. 9, 1921. Serial No. 152,736.

Burlington

Particular description of goods.—Ladies' and Men's Watches.
Claims use since May, 1906.

149,306. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE L. D. CAULK COMPANY, Milford, Del. Filed June 11, 1921. Serial No. 148,971.

SYNTHETIC
PORCELAIN

Particular description of goods.—Porcelain for Filling Teeth and for Making Dental Facings, Crowns, and Window-Inlays.
Claims use since 1911.

149,307. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE L. D. CAULK COMPANY, Milford, Del. Filed Aug. 6, 1921. Serial No. 151,510.

CAULK

Particular description of goods.—Dental Supplies and Appliances—Namely, Porcelain for Use in Filling Teeth and for Producing Dental Crowns and Inlays, Facing-Forms, Crown-Forms, Celluloid Strips, Polishing-Wheels, Mandrels for Polishing, Matrix-Springs, Instruments for Manipulating Dental Porcelain, Mouth-Props, Spatulas, Lancets, Cotton-Pliers, Alloys, Instruments for Manipulating Amalgam, Amalgams, Bridge and Inlay Cement, Cements for Filling Teeth, Preparations for the Treatment of Dental Abscesses and for Capping Pulp and Nerves, Temporary Stopping, Points for Filling Root-Canals, Caps for Temporarily Closing Cavities, Dental Waxes, Casting Investments, Soldering Investments, Wax-Trays, Die-Plates for Artificial Teeth, and Cocoa-Butter Prepared for Use with Facing-Forms, Crown-Forms, and Celluloid Strips and Other Lubricating Purposes, and Cavity-Lining and Solvent Therefor.

Said trade-mark has been continuously used in the business of said corporation as applied to porcelain for use in filling teeth and for producing dental crowns and inlays and as applied to instruments for manipulating dental porcelain since the month of July, 1911; as applied to facing-forms and matrix-springs since April, 1917; as applied to crown-forms since December, 1917; as applied to celluloid strips since January, 1916; as applied to polishing-wheels and mandrels therefor since April, 1916; as applied to mouth-props since February, 1913; as applied to spatulas since December, 1917; as applied to celluloid strips since January, 1916; as applied to spatulas, lancets, and cotton-pliers since July, 1919; as applied to alloys since June, 1896; as applied to instruments for manipulating amalgam since October, 1913; as applied to amalgam since February, 1917; as applied to bridge and inlay cement and to cements for filling teeth since July, 1901; as applied to preparations for the treatment of dental abscesses and for capping pulp and nerves since January, 1911; as applied to temporary stopping and to points for filling root-canals since August, 1906; as applied to caps for temporarily closing cavities since May, 1913; as applied to dental waxes since August, 1905; as applied to casting investments since January, 1915; as applied to soldering investments since September 15, 1919; as applied to wax-trays since June, 1916; as applied to die-plates for artificial teeth since October, 1919; and as applied to cocoa-butter prepared for use with facing-forms, crown-forms, and celluloid strips and other lubricating purposes since November, 1913, and as applied to cavity-lining and solvent therefor since June, 1916.

149,308. (CLASS 39. CLOTHING.) ABNER COHAN, Brooklyn, N. Y. Filed Apr. 29, 1921. Serial No. 146,956.



Particular description of goods.—Men's, Women's, and Children's Hats.
Claims use since May 1, 1920.

149,309. (CLASS 39. CLOTHING.) DAVIS-FORM CORSET INCORPORATED, South Norwalk, Conn. Filed May 18, 1921. Serial No. 147,804.

Velo Felt

Particular description of goods.—Men's and Women's Hats.
Claims use since February, 1920.

149,310. (CLASS 27. HOROLOGICAL INSTRUMENTS.) GALDO DULZAIDES Y COMPAÑIA, Cardenas, (province of Matanzas,) Cuba. Filed Mar. 11, 1921. Serial No. 144,008.

PENNSYLVANIA

Particular description of goods.—Watches, Clocks, and Alarm-Clocks.
Claims use since August, 1919.

149,311. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) A. C. GIBSON, Dayton, Tenn. Filed June 20, 1921. Serial No. 149,297.

Tangerine

Particular description of goods.—Non-Alcoholic, Maltless Beverage Sold as a Soft Drink.
Claims use since June 10, 1920.

149,312. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE GREEN FUEL ECONOMIZER COMPANY, Beacon, N. Y. Filed June 14, 1921. Serial No. 149,181.

Semi-Silent

Particular description of goods.—Fans and Blowers.
Claims use since February, 1917.

149,313. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) HABIRSHAW ELECTRIC CABLE COMPANY, Inc., New York, N. Y. Filed Oct. 19, 1920. Serial No. 138,494.

"Proven by the test of time"

Particular description of goods.—Electric Cable and Insulated Wire.
Claims use since October, 1917.

149,314. (CLASS 42. SMOKERS' ARTICLES AND MATCHES.) INDIAN HEAD MILLS, INC., Cordova, Ala. Filed June 15, 1920. Serial No. 140,231.

CORDOVA

Particular description of goods.—Cotton Sheetings, Drills, and Flannels in the Piece.
Claims use since January, 1900.

149,315. (CLASS 2. RECEPTACLES.) THE KENNEDY CAR LINER & BAG CO., Shelbyville, Ind. Filed Mar. 10, 1921. Serial No. 144,575.

KENNEDY'S

Particular description of goods.—Paper Bags, Merchandise-Envelope, and Cut-Out Paper Car-Liners in the Nature of Receptacles.
Claims use since January, 1914.

149,316. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) LAKESIDE SUPPLY COMPANY, Chicago, Ill. Filed July 30, 1920. Serial No. 135,604.

ELECTRO-PHONE

Particular description of goods.—Phonographs.
Claims use since Jan. 10, 1920.

149,317. (CLASS 39. CLOTHING.) LA LOOP MILLS, Elizabeth, N. J., and New York, N. Y. Filed Oct. 16, 1920. Serial No. 136,966.

La Mode

Particular description of goods.—Hosiery.
Claims use since July 3, 1919.

149,318. (CLASS 17. INKS AND MARKING MATERIALS.) RICHARD S. LATTEY, Racine, Wis. Filed July 1, 1921. Serial No. 149,314.

CARBON WAXED

Particular description of goods.—Carbon Paper.
Claims use since on or about Jan. 1, 1918.

149,319. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANCES LA PIANA, Chicago, Ill. Filed July 7, 1921. Serial No. 150,112.

ANTI STENCH

Particular description of goods.—Deodorants.
Claims use since Apr. 1, 1920.

149,320. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE ANGELUS SOAP CO., Los Angeles, Calif. Filed Aug. 27, 1921. Serial No. 152,222.

CLEMENTE

Particular description of goods.—Toilet Soap.
Claims use since 1915.

149,321. (CLASS 50. CROCKERY, EARTHENWARE, AND PORCELAIN.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed May 9, 1921. Serial No. 147,440.

KENILWORTH STUDIOS

Particular description of goods.—Pottery-Ware.
Claims use since 1917.

149,322. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MERRELL & MAYO CO., Waterville, Me. Filed Nov. 5, 1920. Serial No. 139,134.

ELM CITY

Particular description of goods.—Wheat-Flour, Dairy Rations, Stock Feed, Laying-Mash, and Scratch Feed.
Claims use since January, 1915.

149,323. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RUTHERFORD W. MOORE, Schenectady, N. Y. Filed Sept. 3, 1921. Serial No. 153,169.

R. W. MOORE'S EMULSION

Particular description of goods.—A Preparation Useful in General Debility, Convalescence from Wasting Diseases, Coughs, and Colds.
Claims use since Oct. 1, 1915.

149,324. (CLASS 39. CLOTHING.) GUTMANN, Gutmann & Co. Inc., Baltimore, Md. Filed Feb. 19, 1921. Serial No. 143,617.

twin-button

Particular description of goods.—Union-Suits.
Claims use since Mar. 28, 1918.

149,325. (CLASS 39. CLOTHING.) PFEIFER BROTHERS, Little Rock, Ark. Filed Apr. 16, 1921. Serial No. 146,269.

Pfeifers

Particular description of goods.—Men's Hats and Caps, Men's Furnishing Goods—Namely, Shirts, Collars, Neckties, Hosiery—Men's Underwear, Men's Overcoats and Suits, Boys' Clothing and Furnishings—Namely, Hats, Caps, Suits, Overcoats, Shirts and Sweaters, Underwear—Men's and Women's Shoes of Leather; Infants' and Children's Ready-to-Wear Dresses, Wraps, Rompers, Overalls, Petticoats, and Underwear; Ladies' Blouses, Ladies' and Misses' Ready-to-Wear Lingerie, Dresses, and Suits; Ladies' and Misses' Hats; Men's, Women's, Children's, and Infants' Gloves; Misses' and Women's Hosiery, Kimonos.
Claims use since Oct. 6, 1895.

149,326. (CLASS 39. CLOTHING.) JACOB PRESS, New York, N. Y. Filed Oct. 16, 1920. Serial No. 138,450.

NU-FORM

Particular description of goods.—Men's Garters.
Claims use since Sept. 23, 1920.

149,327. (CLASS 39. CLOTHING.) RUBBERIZED SHEETING & SPECIALTY CO. INC., New York, N. Y. Filed Oct. 5, 1920. Serial No. 137,965.

QUICKSLIP

Particular description of goods.—Babies' Waterproof Bloomers.
Claims use since Jan. 9, 1919.

149,328. (CLASS 39. CLOTHING.) Jones Sportswear & Sims Company, Ogden, Utah. Filed Sept. 16, 1920. Serial No. 137,140.



Particular description of goods.—Overalls, Mechanic Suits, Khaki Pants and Coats, Riding and Riding Pants for Men and Boys, and Riding and Riding Pants for Ladies and Girls, and "Allovers" for Children.
Claims use since about Sept. 1, 1920.

149,329. (CLASS 39. CLOTHING.) J. P. Smith Shoe Co., Chicago, Ill. Filed Mar. 14, 1921. Serial No. 144,749.

DR. A. REED CUSHION SHOE

Particular description of goods.—Shoes of Leather and of Combinations.
Claims use since May 19, 1917.

149,330. (CLASS 39. CLOTHING.) Ty-On Frock Co., Los Angeles, Calif. Filed Sept. 20, 1920. Serial No. 137,546.

TY-ON FROCK

Particular description of goods.—House-Dresses.
Claims use since July 12, 1920.

149,331. (CLASS 10. OILS AND GREASES.) Will & Baumer Candle Co. Inc., Syracuse, N. Y. Filed Aug. 12, 1921. Serial No. 151,794.

PURIFICATION

Particular description of goods.—Candles.
Claims use since about Mar. 1, 1918.

149,332. (CLASS 37. PAPER AND STATIONERY.) Wortendyke Manufacturing Co., Richmond, Va. Filed Oct. 29, 1920. Serial No. 138,908.

GREENWOOD

Particular description of goods.—Toilet-Paper, Paper Napkins, and Paper Towels.
Claims use since Oct. 1, 1920.

DECISIONS OF THE COMMISSIONER OF PATENTS AND OF UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Supreme Court of the United States.

HILDRETH *v.* MASTORAS.

Decided November 7, 1921.

1. PATENTS—VALIDITY—PRESUMPTION OF INTERFERENCE CONTEST.
The presumption of priority and novelty which arises from the granting of a patent must have greatly increased weight when the claim of the inventor is subjected to close and careful scrutiny under the stimulus of a heated interference contest.

2. SAME—SAME—DIFFERENCE IN STRUCTURE.
A candy-pulling machine in which the pulling-pins have a relative in-and-out motion is not anticipated by a device in which corresponding pins move in concentric circles.

3. SAME—GENERIC PATENTS—IMPERFECT OPERATION.
Where a machine patented is imperfect in its operation but embodies the generic principle, *Held* to be enough if it performs its function, though only in a crude way.

4. SAME—VALIDITY—CANDY-PULLING MACHINE.
The Dickinson patent, No. 831,501, claim 1 of which is for a candy-pulling machine comprising a plurality of oppositely disposed candy hooks or supports and means for producing an in-and-out motion of those parts, *Held* valid and infringed by the defendant's device.

Mr. Frederick D. McKenney and *Mr. Geo. P. Dike* for Hildreth.

Mr. Joseph L. Atkins for Mastoras.

On writ of certiorari to the Circuit Court of Appeals for the Ninth Circuit.

Mr. Chief Justice TAFT delivered the opinion of the Court.

This is a certiorari to the Circuit Court of Appeals of the Ninth Circuit bringing here for review a decree of that court, reversing one of the District Court of Oregon, granting an injunction against infringement of a patent for a candy-pulling machine. The patent, No. 831,501, was issued to Hildreth as assignee by mesne assignments of Dickinson. Mastoras, the defendant in the district court, made and used a candy-pulling machine, under a later patent of Langer [No. 1,232,697]. The circuit court of appeals held the claim of the Dickinson patent sued on to be so limited as not to cover the Langer device. (263 Fed., 68; 268 Fed., 571.)

The chief question in this case is infringement, and that turns on the question whether Dickinson's invention is held to be a primary or generic invention, or a narrow one limited solely to the device shown.

Not all candy is pulled, but much of it is. The process is first the mixture of the ingredients, then the boiling, then the cooling on a slab, and then the pulling. After boiling and cooling, it is a compact mass of dark color. The pulling aerates it and makes it less in weight but larger in bulk, lighter in color and more capable of holding flavor. Until the beginning of this century, candy was pulled only by hand. It required much strength. Candy-pullers were hard to get. The work was strenuous and produced perspiration and uncleanliness. It was done with the bare hands, and it was impossible to avoid danger from eczema and abrasions of the skin of the hands. It was neither appetising nor sanitary. A good candy-puller might pull three hundred pounds of candy a day. The capacity of the large machines now in use is two and one-half tons each, and one man can attend to two machines. Thus since 1900, the art has advanced from a production of 300 pounds a day to 10,000 pounds, with the same labor.

In April, 1900, Dickinson published an article in the trade journal, "*The Confectioner*," describing a machine for pulling candy and offering it for sale. He advertised it quite largely. Hildreth ordered the Dickinson machine, tested it and rejected it as unsatisfactory. One of Hildreth's men, Thibodeau, having seen and worked on the Dickinson machine, made a machine which worked better. Hildreth filed an application for a patent for one device for pulling candy September 21, 1900. Thibodeau filed an application for another November 26, 1900, and an interference was declared between them. Thibodeau thereafter bought Dickinson's invention and caused him to file an application for a patent November 5, 1901. Six applications were pending in the Patent Office at the same time, those of Dickinson, Hildreth, Jenner, Thibodeau, Robinson and Henry, and the Patent Office framed the issue between them in terms exactly those afterward granted to Dickinson as the claim relied on in this case.

The controversy in the Patent Office lasted five years, was strenuously contested, and was carried to the Court of Appeals of the District of Columbia. The controversy involved, among other issues,

that of the operativeness of Dickinson's device, as does the present case in one of its phases. He had given a public test of his machine at Grand Rapids, where he lived, in 1900, and had produced a number of witnesses. They were called before the Examiner to testify whether the machine had worked successfully, and the Examiner found from the great weight of evidence that it had. Hildreth was a witness in the United States Court below on this issue. He was in the embarrassing situation of having fought, in the Patent Office, Dickinson's claim, which he was now supporting as his property. He testified that while Dickinson's machine was not a success commercially, he had found that by shortening it and speeding it up, in accord with a suggestion of Dickinson, he could and did make satisfactory candy. The record shows that the judge in the district court below had a working model before him which he refers to as demonstrating that the device is operative.

Hildreth has been a candy manufacturer of Boston for many years, and since 1900 has made candy-machines. In addition to his own patent, he has acquired by purchase all the other patents in interference with Dickinson. He acquired the Dickinson patent from Thibodeau before its issue, for $75,000.

By these new devices the art of candy-making has been revolutionized. Some kinds of candy which if pulled at all had to be pulled when cold, could not be pulled by hand, because it required more than man strength; but they are now pulled by power machines. The production of candy has greatly increased, and 90 per cent. of all the pulled candy made is pulled by machine. Hildreth makes a half dozen different classes of machines which embody the devices of his own patent and others which he has purchased, but none of the model of Dickinson's. Mastoras, the respondent here, was for some time a licensee of Hildreth until he made and used his present machine.

In candy-pulling by hand, the puller works the boiled candy, cooled but still warm and sticky, into a sausage-like piece two or three feet long, and weighing 20 or 25 lbs., called a batch. He throws the middle of this over a hook fixed in the wall about the level of his chin. He pulls down the two ends, stretching the batch two or three times its length. Then he holds the ends together with one hand and with the other spins the two strands about their middle and carries them over the hook, thus making a new bight of the folded or legged strands over the hook, and shortening the lengths hanging from the hook, the ends of which are now brought together and pulled down again. This operation repeated often, brings the candy into desired condition.

In the Dickinson machine, the candy is placed in the bottom of a trough, in the center of which is an upright pin, referred to in the patent as the "candy puller." There are two other pins disposed over the trough from the ends of an arm or plate which at turn is fixed to a support and made to rotate. By suitable contrivance, the support which carries the pins is made to move back and forth from end to end of the trough. At each end of the trough the pins are made by the rotary motion of the plate to which they are suspended, to traverse their positions from one side of the trough to the other before beginning their movement in the opposite direction. In this way there is produced an in-and-out movement of the suspended pins relative to the stationary pin every time they reach and depart from the ends of the trough. This movement causes the "batch" of the candy in the trough, attached itself to the movable pins, to be pulled by lapping on itself as the suspended pins pass and repass the fixed pin and as their positions are reversed. The change of the relative position of the three pins is such that in a complete cycle of operation of the machine one of the pins passes through the space between the other two, and then another of the pins passes through a space between the other two, and then the third between the other two, each pin at one phase of the operation passing between two others, and at another phase of the operation being one of the pair between which the third one is passing. Just as the hand-pulling of the candy produced a bundle of parallel fibers between which were formed air-cells rendering the mass porous, so the mechanism of Dickinson's machine secures the same result. It elongates the candy, folds it upon itself, again elongates the folded mass, again folds it upon itself, and repeats the operation in order. So far as this record discloses, no candy-pulling has been successful which does not in some form by an arrangement of three or more pins show this in-and-out movement to pull and lap the candy, and no one had shown it prior to Dickinson.

Dickinson's claim here sued on is as follows:

A candy-pulling machine comprising a plurality of oppositely-disposed candy hooks or supports, a candy-puller, and means for producing a specified relative in-and-out motion of these parts for the purpose set forth.

[1] This, as already said, is the claim which was framed in the Patent Office as the issue of the interference proceeding, and of which Dickinson was given priority over all. The presumption of priority and novelty which arises from the granting of a patent must have greatly increased weight when the claim of the inventor is subjected to such close and careful scrutiny under the stimulus of a heated contest.

The circuit court of appeals held the claim of Dickinson to be limited by a prior patent to Firchau [No. 511,011] for a candy-working machine applied for in March, 1893, and issued December 19, 1893. The machine shown in the Firchau patent comprises two disks which are rotated in opposite directions. On each disk is a finger which projects into a drum, into which the candy is put.

[2] The pins pass each other twice during each revolution of the disk and move in concentric circles, but do not have the relative in-and-out motion or figure 8 movement of the Dickinson machine. With only two hooks there could be no lapping of the candy, because there was no third pin to re-

engage the candy while it was held between the other two pins. The movement of the two pins in concentric circles might stretch it somewhat and stir it, but it would not pull it in the sense of the art. The Firchau device never, so far as appears in the record, made candy experimentally or otherwise. Indeed, no candy was commercially pulled by machine before or after the issuing of the Firchau patent in 1893 until the introduction of the Dickinson principle, nine or ten years later.

Counsel for the respondent in seeking to narrow the construction of the broad claim of Dickinson rely on the circumstance that one of Dickinson's claims in the Patent Office was canceled on a reference to Firchau. The canceled claim of Dickinson was:

In a candy-pulling machine, in combination, a series of pins or pulling members, and automatically-acting means for causing said members to feed the candy to each other and pull the same.

The Examiner evidently considered that the word "series" might be held to cover a device with only two pins, as shown in the Firchau patent; though having in mind the essential elements of the Dickinson patent, it could hardly have borne such a construction. However that may be, as neither Firchau nor anyone else has shown, with two pins only, the in-and-out movement in pulling candy, which is the fundamental element of the Dickinson invention, the cancelation does not seem to us important or to require a narrowing of Dickinson's claim for the described and indispensable cooperation of three or more pins to produce that movement.

[3] The court of appeals bases something of its conclusion in this case on the alleged inoperativeness of the Dickinson machine. As to this, we find no reason in the record for disturbing the finding of the district judge, with the working model and the witnesses before him, supported as he is by the finding of the Patent Office and the district court of appeals on extended evidence on this very point before them. It is not necessary, in order to sustain a generic patent, to show that the device is a commercial success. The machine patented may be imperfect in its operation; but if it embodies the generic principle and works, that is, if it actually and mechanically performs, though only in a crude way, the important function by which it makes the substantial change claimed for it in the art, it is enough. (*Telephone Cases*, 126 U. S., 1, 535; *Mergenthaler Linotype Co.* v. *Press Publishing Company*, 57 Fed. Rep., 502, 505.)

The Patent Office treated the Dickinson invention as a primary or generic one. So did the Court of Appeals of the District of Columbia, (25 App. D. C., 316,) Judge Rose of the District Court of Maryland, (*Hildreth* v. *Lauer*, 208 Fed. Rep., 1005,) and the Circuit Court of Appeals of the Fourth Circuit. (*Hildreth* v. *Lauer*, 219 Fed. Rep., 753.) In this view, after a consideration of the record, and for the reasons stated, we concur. The history of the art shows that Dickinson took the important but long delayed and therefore not obvious step from the pulling of candy by two hands guided by a human mind and will to the performance of the same function by machine. The ultimate effect of this step with the mechanical or patentable improvements of his device was to make candy-pulling more sanitary, to reduce its cost to one-tenth of what it had been before him, and to enlarge the field of the art. He was, therefore, a pioneer.

[4] We come now to the question of infringement. In the Langer patent, applied for in 1916 and issued in 1917, which the alleged infringement embodies, there is a so-called "floating puller," which is carried through a course of travel corresponding in form to the figure 8, and around fixed supporting-pins arranged concentrically within the two circular portions of figure 8. The candy is pulled by the floating puller and alternately carried thereby around the fixed supporting-pins. Instead of having Dickinson's single stationary pin and two other pins which move relatively to it and to one another, the machine of the Langer patent has two stationary pins and a third one which moves relatively to both of them in an actual and rigid figure 8.

Taking the first claim of Dickinson's patent as it reads, one can trace every element of it in the Langer machine. We find there a plurality of oppositely-disposed candy hooks or supports. The candy-puller is found in the movable pin of Langer, and a relative in-and-out motion in the pulling process is palpably present.

Both Dickinson and Langer in their specifications characterize the path of the candy under the operation of the hooks as being along a course of travel corresponding in form to the figure 8. The circuit court of appeals found, however, that the in-and-out movement of the Langer patent was different from the in-and-out movement of the Dickinson patent, in that it was a true figure 8 in the former, whereas in the Dickinson patent the candy follows a path of a series of V's and not a true figure 8 path at all. We differ from the court of appeals in this view. The actual movement of the candy in the Langer patent, even though the movable pin follows a fixed path of figure 8, forms a succession of V's closely resembling the V's of the Dickinson patent, so that in each the path of the candy is better described as an in-and-out movement than as a figure 8. The arrangement of the hooks by Langer is better than Dickinson's, but the principle of their operation is the same.

The counsel for the respondent, however, urge that the trough, not shown in the alleged infringement, is a necessary element of Dickinson's claim, because without it the batch of candy could not be supported against gravity and he suggests no alternative. Dickinson says in his specifications that he shows a trough for supporting the candy, but any suitable support may be used which has the capacity for supporting the candy while it is being operated upon. Two of the machines, the Jenner and the first Thibodeau, which were in interference in the Patent Office with Dickinson, had the pins set, not in an upright but in a horizontal position, and thus the candy in their machines

tested on trough support by contact with the [illegible] themselves, and this, according to patentee, [illegible] was an improvement which was [illegible] patentable, but none of the claims in suit [illegible] Office proceedings disclose that he was [illegible] improved appliances of the character which [illegible] take these matters with all the presumption of the claim awarded to Dickinson. As the Dickinson patent is a generic patent, the doctrine of mere equivalents properly applies here. *(Morley v. Lancaster Company*, 129 U. S. 263, 273; *Miller v. Bridgeport Manufacturing Company*, 151 U. S. 186, 207; *Pepper Bag Patent Case*, 210 U. S., 403.)

The circuit court of appeals held that the issuing of the Langer patent, after the Dickinson patent, raised the presumption of a patentable difference between that patent and the Dickinson patent, and against infringement. It is not necessary for us, however, to discuss that question, for we think that whatever presumption against infringement may attach to the issuing of the second patent, if any, the evidence here is quite sufficient to overcome it.

The decree of the circuit court of appeals is reversed, and that of the district court is affirmed.

ADJUDICATED PATENTS.

(U. S. C. C. A. N. Y.) The Beattie patent, No. 972,230, for expanding and contracting dies in collar-folding machines, *Held* valid. *Beattie Mfg. Co. v. Smith*, 275 Fed. Rep., 164.

(U. S. C. C. A. N. Y.) The Beattie patent, No. 972,695, for incorporating heating resistance-coils in folders of collar-folding machines, *Held* valid. *Beattie Mfg. Co. v. Smith*, 275 Fed. Rep., 164.

[illegible]

(U. S. C. C. A. N. Y.) The Beattie and Beattie patent, No. [illegible], for [illegible] adjustable arrangement of [illegible] in collar-folding machines, *Held* valid. *Beattie Mfg. Co. v. Smith*, 275 Fed. Rep., 164.

(U. S. D. C. E. D.) The Buck and Hewlett patent, No. [illegible], for suppression of high-tension line, not infringed. *General Electric Co. v. Ohio Brass Co.*, 275 Fed. Rep., 212.

(U. S. C. C. A. N. Y.) The Smith patent, No. 972,272, for separate heating of hot-plate inhalers in collar-folding machines, Held infringed. *Beattie Mfg. Co. v. Smith*, 275 Fed. Rep., 164.

Adverse Decisions in Interference.

Patent No. 1,380,000.

On November 4, 1921, a decision was rendered that Charles E. White was not the first inventor of the subject-matter covered by claim 6 of his Patent No. 1,381,000, relating to "heating and generating apparatus," and no appeal having been taken within the time allowed such decision has become final.

Patent No. 1,331,427.

On November 4, 1921, a decision was rendered that Dudley T. Fraser was not the first inventor of the subject-matter covered by claims 4, 5, 6, 7, 8, and 9 of his Patent No. 1,331,427, relating to "heating apparatus," and no appeal having been taken within the time allowed such decision has become final.

Patents Nos. 1,393,729 to 1,400,805.

THE OFFICIAL GAZETTE
OF THE
United States Patent Office.

Vol. 293—No. 2. TUESDAY, DECEMBER 13, 1921. Price—$5 per year.
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Issue of December 13, 1921.

Patents	776—No.	1,399,729 to No. 1,400,805,	inclusive.
Designs	54—No.	59,249 to No. 59,302,	inclusive.
Trade-Marks	295—No.	148,288 to No. 148,582,	inclusive.
Labels	62—No.	28,776 to No. 28,837,	inclusive.
Prints	33—No.	5,245 to No. 5,277,	inclusive.
Reissues	1—No.	16,249.	
Total	1220		

Nolan Act—Reciprocity of the Laws of Tunis Recognized.

(Order No. 2711.)

Department of the Interior,
United States Patent Office,
Washington, D. C., December 9, 1921.

Notice is hereby given that the laws of Tunis are recognised as affording to citizens of the United States privileges substantially reciprocal to the privileges accorded by the Nolan Act of March 3, 1921, (41 Stat. L., 1313,) and that consequently all the privileges specified in said act will be extended to its citizens.

THOMAS E. ROBERTSON,
Commissioner.

Interference Notices.

Department of the Interior,
United States Patent Office,
Washington, D. C., November 22, 1921.

Travers Bros. Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Columbian Rope Company, Auburn, N. Y., for registration of trade-mark and trade-mark registered Mar. 18, 1902, No. 76,094 to Travers Bros. Co., 107 Duane street, New York, N. Y., and a notice of such declaration sent by registered mail to Travers Bros. Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Travers Bros. Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
First Asst. Commissioner.

Department of the Interior,
United States Patent Office,
Washington, D. C., December 7, 1921.

Perfection Mfg. Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Hankins Bros. & Company, corner of Prospect and Grand streets, Sioux City, Iowa, for registration of a trade-mark and trade-mark registered August 22, 1916, No. 112,216, to Perfection Mfg. Co., 434 Land Title Building, Philadelphia, Pa., and a notice of such declaration sent by registered mail to Perfection Mfg. Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Perfection Mfg. Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Communications to the Patent Office.

Rule 2. A separate letter should in every case be written in relation to each distinct subject of inquiry or application. Assignments for record, final fees, and orders for copies or abstracts must be sent to the Office in separate letters.

NOTICE—DESIGN PATENTS.

When an application for a design patent is found allowable, the patent will be granted for the term asked in the application papers unless specific request has been made for notice prior to allowance so that the term may be extended. Hereafter the Office will delay allowance and notify the applicant ONLY in cases where a specific request is filed.

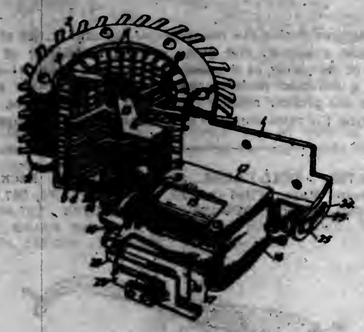
Room No.	Divisions, Examiners, and subjects of inventions. (Old-issue case, Nov. 15; client consulted, Feb. 5.)	Oldest new applications and old not taken up for action by Examiners.		Average time in months from filing to issue.
		Now.	Amended.	
214	1. LOEFFLER, F. A., Closure Openings; Funnel; Gates; Hammers and Diggers; Floor; Flooring; Separating Compounds.	July 6	July 6	867
138	2. BALDWIN, M., Box Coverings; Dairy; Medicines; Preparations; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants, and Flowers.	Jan. 20	Apr. 5	1,720
175	3. RICE, WM. J., Electric Heating and Electrolysis; Electrochemistry; Smelting; Metal-Founding; Metallurgy; Refrigeration; Synthetic Chemistry; Metal Treatment; Plastic Metal Working.	Apr. 21	Feb. 21	941
204	4. MERRITT, A. P., Cutlery; Edge Tools; Files; Hardware; Knives; Razors; Scissors; Shears; Tinning and Soldering; Tool Handles; Tool Sharpening; Tool Supports; Tool-Setting; Tools; Whetstones; Working Metal by Cutting and Abrading; Working and Finishing Implements; Reference Work on Cutlery.	Jan. 13	June 27	1,720
167	5. MAGNAN, J. F., Bookbinding; Boxes, Stamped; Cards; Cutting Boards, Hedge and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Type, Cases or Stands.	Feb. 11	Mar. 21	941
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133	8. CLIFT, J. W., Beds; Chairs and Seats; Furniture Shelf Bracing Devices; Furniture; Kitchen and Table Articles; Stove Pipe and Fumigating Supports.	Aug. 22	Oct. 21	615
221	9. TREVOR, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motor Wheels.	Jan. 10	Sept. 16	1,040
205	10. MITCHELL, T. E., Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Running Gear; Land Vehicles, Wheel or Runner; Motor Vehicles.	May 14	Sept. 17	1,113
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220	13. NIXON, G. A., Bolt, Nail, Rod, Rivet, and screw making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gang Cutting, Milling, and Planing Metal Working; Metal Forging; Metal Rolling; Metal Tools and Implements, Making; Metal Working, Miscellaneous; Pin Making; Turning.	Jan. 1	Oct. 11	1,702
220	14. BRUMBAUGH, M. J., Cutting Tools; Cutting and Punching Sheets and Bars; Forging; Metal-Bending; Sheet-Metal Ware, Making, Tools; Wire Fabrics and Structure; Wire Working.	Feb. 21	Aug. 11	861
209	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberating; Plastic Stock and Earthenware Apparatus; Plastics.	Nov. 10	Mar. 22	1,770
112	16. BACKUS, C. D., Railroad Surveying; Telegraphy; Telephony.	Dec. 13	Mar. 3	1,722
207	17. RAFTER, G. S., Cutting, Label Printing and Paper Stamping; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Cutting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Apr. 5	July 6	1,134
220	18. PORTER, H. B., Liquid Measure and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Steam Engine Valve Details; Steam and Vacuum Pumps.	Jan. 15	Feb. 16	1,016
220	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating System; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Jan. 16	May 4	1,003
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Rifle; Ventilating.	May 23	July 13	1,160
213	21. THURBER, W. L., Bodies and Tops; Casting; Cloth Finishing; Continuous-Strip Feeding; Cordage; Fur and Fur; Knitting and Netting; Slide Fastening; Weaving; Winding and Reeling.	Mar. 20	July 19	736
240	22. COLWELL, J. F., Ammunition and Explosive Devices; Ammunition and Explosive Devices Making.	June 23	Sept. 23	847
217	23. GROSSBECK, W. D., Accounting; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Jan. 10	July 19	843
144	24. DARBY, J. F., Apparel; Apparel Appendages; Garment Supporters; Sewing-Machines.	Feb. 14	July 7	1,134
315	25. LIGHTFOOT, J. H., Agricultural Harvesting; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Sept. 13	Sept. 10	366
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime Mover Dynamo Plants.	Apr. 27	June 27	816
314	27. ANDERSON, L. S., Abrading, Burnishing and Scrubbing; Laundry; Washing Apparatus.	May 2	July 12	1,220
220	28. BENSON, A. R., Boiler Furnaces.	Feb. 12	May 23	1,020
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Combs or Hair Ornaments; Cutlery; Tool Handle Fastenings; Wood-working Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Mar. 19	Sept. 16	781
182	30. SULLIVAN, M. B., Illuminating-Burners; Illumination: Liquid and Gaseous Fuel Burners; Type-Writing Machines.	May 11	Sept. 20	1,288
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Dec. 20	Feb. 13	2,000
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange.	Feb. 2	Sept. 12	960
70	33. COWLES, A., Bridges; Earth and Rock Excavating; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roads.	May 28	June 20	732
204	34. SIMPSON, O. R., Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store service; Track-Sanders; Vehicle Fenders.	Aug. 24	Oct. 1	818
89	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	Sept. 23	Sept. 8	709
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	June 20	June 15	1,52
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers.	Mar. 10	Mar. 19	1,619
278	38. IDE, G. E., Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationary; Stone-Working; Wells.	June 9	June 13	1,260
220	39. COWLES, A. W., Fluid Pressure Regulators; Joint Packings; Multiple Valves; Pushed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings. Valves; Water Distribution.	Nov. 20	Mar. 5	2,047
273	40. OBERLIN, J. J., Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Depot and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Jan. 10	Apr. 6	2,425
125	41. BROWN, J. L., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels.	June 14	July 9	854
114	42. CUTTING, H. C., Electrical Conduits and Housings; Electric Signaling; Electric Lamps.	Jan. 4	Jan. 18	1,620
202	43. HOPKINS, F. E., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Jan. 24	Feb. 21	1,721
263	44. SHAFFER, C. H., Air-Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration Ships.	Feb. 23	Oct. 6	831
279	45. GILES, A. E., Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices.	May 16	July 28	1,122
232	46. WOLCOTT, C. L., Curtains, Shades and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Apr. 15	June 30	1,125
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid Pressure Brake and Analogous Systems.	Mar. 18	July 7	1,204
118	48. ROBERTS, O. R., Electricity, Conductors; Electricity, General Applications.	Jan. 4	Feb. 8	1,007
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, JR.			
	Trade-Marks	Dec. 10	Aug. 13	4,696
	Designs	Apr. 20	May 3	2,379
	Labels and Prints	Nov. 8	Nov. 1	197

Total number of applications awaiting action, excluding Trade-Mark division, 55,826; Trade-Mark division, 6,672.

PATENTS

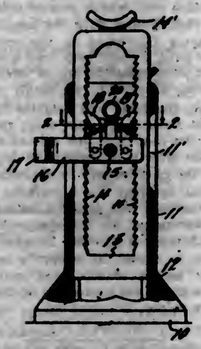
GRANTED DECEMBER 13, 1921.

1,399,728. AUTOMATIC SWITCH FOR TELEPHONE-EXCHANGE SYSTEMS. ARTHUR H. ADAMS, Galion, Ohio, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 28, 1919. Serial No. 313,434. 4 Claims. (Cl. 179—27.5.)



1. A rotary switch comprising a terminal bank, a rotatable brush set coöperatively associated with said bank, a ratchet wheel for driving said brush set, stepping means comprising a stepping pawl and motor magnet therefor adapted to rotate said ratchet wheel, said stepping means pivoted concentrically with said ratchet wheel and adapted to be adjusted angularly about its pivot.

1,399,729. LIFTING-JACK. GEORGE R. ADAMS, Hillsboro, Tex. Filed Dec. 21, 1920. Serial No. 432,177. 5 Claims. (Cl. 254—110.)



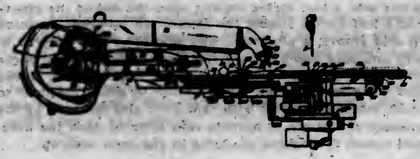
1. In a double acting jack, a standard, a rack-member slidably engaging the standard and having a longitudinal opening and spaced longitudinal racks upon opposite sides of said opening, an actuating lever pivoted upon the standard at a point near the longitudinal opening of the rack-member, dogs mounted within the longitudinal opening of the rack-member and pivotally connected with the lever upon opposite sides of its pivot and arranged to engage the racks, a spring connecting the dogs and serving to shift them outwardly into engagement with said racks, a pair of retracting arms pivotally connected with the standard upon opposite sides of the pivot of the lever and provided with inclined flanges, lateral extensions carried by the dogs to engage the inclined flanges, a spring connecting the retracting arms to move them inwardly, and a movable member arranged between the retracting arms and contacting therewith and adapted to shift them outwardly.

1,399,730. SLEEVE-HOLDER. SHIKICHI ABE, Detroit, Mich. Filed July 24, 1920. Serial No. 398,668. 2 Claims. (Cl. 24—245.)



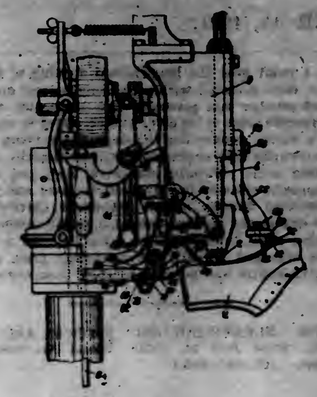
1. A sleeve holder comprising a member adapted to be positioned beneath the fold of a sleeve and having a base, a head and a connecting neck of reduced diameter, and an endless band having its normal interior diameter of less length than the diameter of the head and capable of being stretched over the head to engage the fold around the neck.

1,399,731. BUTTONHOLE-CUTTING MECHANISM FOR SEWING-MACHINES. EDWARD B. ALLEN, Newtown, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Original application filed Aug. 16, 1919, Serial No. 317,902. Patent No. 1,360,704, dated Nov. 30, 1920. Divided and this application filed Mar. 20, 1920. Serial No. 367,299. 10 Claims. (Cl. 112—68.)



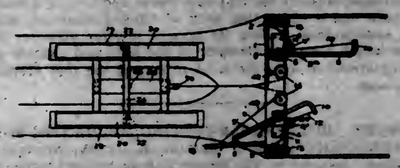
1. In a buttonhole sewing machine, in combination, stitch-forming mechanism, a buttonhole-cutter operating to clip out a section of the material in cutting the buttonhole, a passageway disposed horizontally below said cutter to receive the clippings, and means including a horizontally movable clipping engaging element for moving the clippings along said passageway.

1,399,782. MECHANISM FOR USE IN ATTACHING SHANK-PIECES TO SHOES. FRED L. AYRES, Everett, and FRED L. MACKENZIE, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 23, 1918. Reissued No. 224,179. 33 Claims. (Cl. 1—19.)



1. In a machine of the class described, a frame, fastening inserting mechanism carried by said frame for attaching a shank piece to a shoe, and means mounted on the frame for positioning the shank piece relatively to the fastening inserting mechanism.

1,399,783. AUTOMATIC DOOR-OPENING DEVICE. JOHN BALANS, Brantford, Ontario, Canada. Filed Aug. 28, 1919. Serial No. 320,403. 4 Claims. (Cl. 268—9.)



1. In an automatic door opening device, the combination with a door hinged to swing outwardly, of a lever pivotally secured to said door and having a notch in the underside, said notch having an angular end, a groove extending longitudinally of said lever and connected with said notch and having one end opening outwardly to the lower side, a leaf spring closing upon the end of the groove and a leaf spring closing the connection between the notch in said groove, a pin supporting said lever and adapted to slip into said notch to lock the lever with the door in the open position and adapted to spring past the last spring and to enter the longitudinal groove to allow the door to close, means connected with said lever and operated by the passage of the car to operate said lever to open the door, and means for locking the lever in the open position.

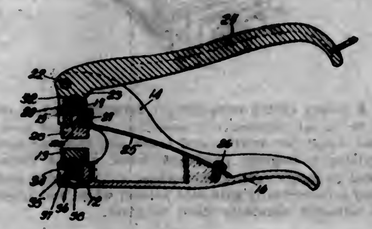
1,399,784. BRASING DEVICE. JOHN H. BALDWIN, Chicago, Ill., assignor to The Baldwin Brazer Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 30, 1918, Serial No. 260,741. Renewed July 11, 1921. Serial No. 483,946. 9 Claims. (Cl. 120—38.)

8. In an erasing device, in combination, a swinging support, a member having an adhesive contact face slidingly mounted upon the said support, a reciprocable plunger operable during a part of its stroke in one direction to swing the said support, a laterally swinging pawl carried by the plunger for engagement with the said member in one position o fthe pawl to advance the said member upon



the support during the remainder of the said stroke of the plunger, the pawl and plunger being both clear of the path of movement of the said member when the pawl occupies a different position, means for swinging the pawl when the plunger reaches the end of the said stroke, and a spring for retracting the said member upon the support.

1,399,785. SEAL-PRESS, &c. RICHARD R. BACHMEY, Revere, Mass. Filed Oct. 15, 1921. Serial No. 507,821. 4 Claims. (Cl. 101—3.)

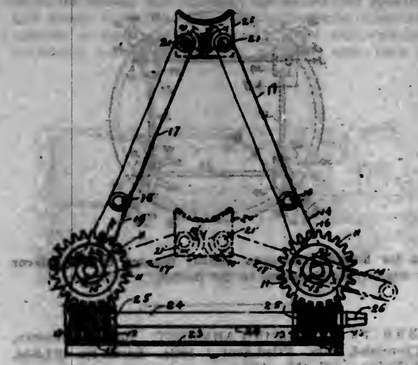


1. An implement comprising a body including a die-holding portion, provided with a lower die, a handle, and a standard provided with a plunger guide; a plunger movable in said guide and provided with an upper die, and with an anti-friction roll, whose axis of rotation is in the plane of, and at right angles with the longitudinal axis of the plunger; a lever fulcrumed on the standard and including a cam forming a short arm, and a handle forming a long arm, said arms constituting in effect a bell-crank lever; and a spring adapted to yieldingly raise the plunger and the lever, the form and relative arrangement of said cam and roll being such that when the plunger and lever are raised, the cam is at one side of the axis of the roll, and when the lever is depressed, to depress the plunger and its die, the cam swings to a position above said axis, whereby the leverage or depressing force exerted by the cam on the roll, the plunger, and the upper die, increases when the upper die, in approaching the lower die, contacts with work interposed between the dies, and whereby the cam is caused to impart a relatively quick initial movement and a slower final movement to the plunger, so that a minimum separation of the said handles, when the lever is raised, is permitted.

1,399,786. HOISTING MECHANISM. ISRAEL BENJAMINS, Brooklyn, N. Y. Filed Jan. 12, 1921. Serial No. 436,722. 5 Claims. (Cl. 254—126.)

1. In a hoisting mechanism a pair of gears, a pair of worms in mesh therewith and adapted to rotate said gears

in opposite directions, a crank connected to each of said gears and adapted to rotate therewith, a connecting rod



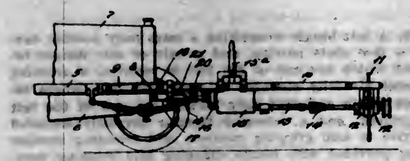
pivotally connected at its lower end to each of said cranks and a support for a load at the upper ends of said connecting rods.

1,399,787. SPEED-CHANGING MECHANISM. CHARLES C. BLAKE, Brookline, Mass. Filed Sept. 1, 1917. Serial No. 189,354. 2 Claims. (Cl. 192—96.)



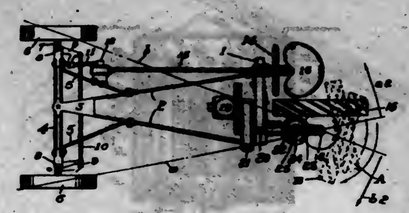
1. In a mechanism of the character described, the combination of a hollow shaft, a member rotatably mounted on said shaft, and a clutch for connecting said member to said shaft and disconnecting it therefrom, comprising a hub fast on said shaft, said hub being closely encircled by said member, a hook-shaped spring lever supported on said hub and having a part extending into a position adjacent to the axis of said shaft and a device movable in the bore of said shaft and arranged to move said lever to operate the clutch.

1,399,788. POWER-TRANSMISSION ATTACHMENT FOR AUTOMOBILES. GIOVANNI A. BONELLI, Kingman, Ariz. Filed Nov. 29, 1919. Serial No. 341,495. 4 Claims. (Cl. 180—53.)



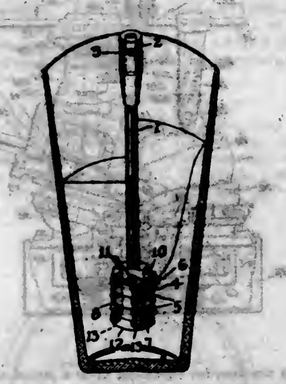
1. A power transmission attachment for automobiles comprising a chassis; forwardly projecting rails detachably secured to the sides of said chassis; a frame secured to said rails; a driven shaft mounted in said frame and arranged for connection with the engine shaft; and means for cranking the engine shaft comprising a gear member slidably mounted on said driven shaft and an engaging crank and gear carried by said frame.

1,399,789. MOTOR AGRICULTURAL MACHINE. CHARLES S. BROWN, Syracuse, N. Y. Filed July 15, 1918. Serial No. 245,059. 10 Claims. (Cl. 180—26.)



1. In a motor vehicle, the combination of a frame, a pair of steering wheels near one end of the frame, a tractor wheel near the other end of the frame and traveling in a path between the paths of the steering wheels, the tractor wheel being also shiftable about an upright axis from normal position into angular positions with its horizontal axis arranged radially relatively to the vertical diameter of one or the other of the steering wheels, a motor carried by the frame, and mechanism between the motor and the tractor wheel to drive and to shift the same, and means for controlling the shifting of the tractor wheel, substantially as and for the purpose described.

1,399,740. MIXING AND AERATING DEVICE. GEORGE R. BOTT, Mount Vernon, N. Y. Filed Feb. 21, 1921. Serial No. 446,536. 11 Claims. (Cl. 259—134.)

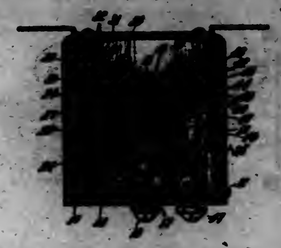


1. A mixing and aerating device for liquids comprising a solid spindle, said spindle having a solid core and provided on its exterior with an interrupted spiral and a plurality of parallel continuous channels, each intersecting the successive turns of the spiral, said channels extending inwardly below and beyond the spirals into the solid core of the spindle.

1,399,741. REGULATOR. STEPHEN F. BROOKS, Milwaukee, Wis., assignor to Briggs & Stratton Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 17, 1916. Serial No. 91,550. 17 Claims. (Cl. 200—90.)

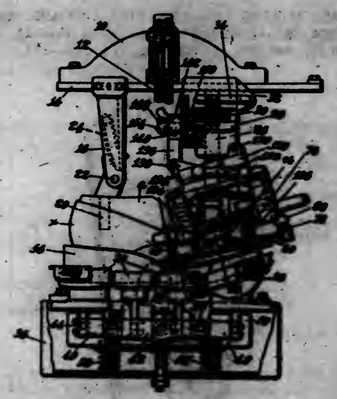
1. In a vibrating regulator for controlling the charging of storage batteries from variable speed generators, a vibrating armature for generator-output regulation, means

for giving a normal spring action to said armature, and an auxiliary charge boosting spring for varying the spring



action of said armature without affecting the adjustment of the normal spring action thereof.

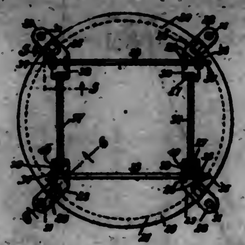
1,399,742. MACHINE FOR PRESSING THE SOLES OF SHOES. MATTHIAS BROCK, deceased, Boston, Mass., by Edward L. Brock, administrator, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 8, 1919. Serial No. 275,786. 37 Claims. (Cl. 12—33.)



1. In a machine for operating upon a lasted shoe, means arranged to apply pressure to the bottom of the sole, and means arranged to co-act therewith to clamp the sole-extension at opposite sides of the shoe, one of said means being arranged to equalize the pressure at each side of the shoe relatively to that at the opposite side.

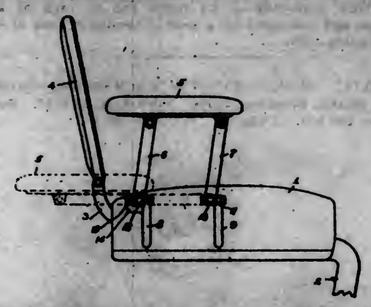
1,399,743. SUPPORTING-FIXTURE FOR MIRRORS AND THE LIKE. ELIAS J. BROOT, Roxbury, Mass. Filed May 8, 1919. Serial No. 295,602. 2 Claims. (Cl. 45—18.)

1. A device of the character described, comprising angularly disposed bracket members provided with face plates adapted to set adjacent to the back of the mirror and at the edge thereof and having hooked members projecting from said face plates for engaging the edge of the mirror, and depending coupling member lugs and bracket supports projecting from said bracket members and in opposite direction to said hooked members; and adjustable coupling members adapted to engage with said depending coupling member lugs for coupling said bracket members together



and for holding the same rigidly secured to the mirror for supporting the same in the device.

1,399,744. FOLDING ARMREST. JOHN P. BROPHY, Cleveland, Ohio. Filed Sept. 1, 1921. Serial No. 497,534. 4 Claims. (Cl. 155—196.)



1. The combination with a seat, of an arm rest therefor, said rest being foldable both in a transverse direction onto said seat and in a longitudinal direction to clear the latter, substantially as described.

1,399,745. BELT-BUCKLE. SAMUEL BUCHBAUM, Chicago, Ill. Filed June 24, 1920. Serial No. 391,465. 30 Claims. (Cl. 24—191.)

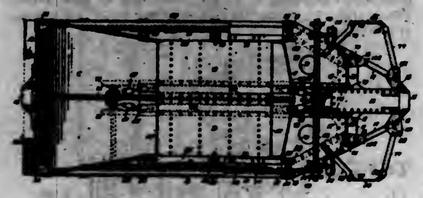


29. A belt buckle comprising a main body portion having a face plate portion, and a pair of side flanges between which one end of the belt is received, a gripping member pivotally mounted between said side flanges between which and said body portion one end of the belt is gripped, and a releasing member pivotally mounted relative to said gripping member, said releasing member being provided with means engaging said gripping member for releasing said gripping member.

1,399,746. ORE-CAR. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed June 4, 1920. Serial No. 386,842. 10 Claims. (Cl. 105—280.)

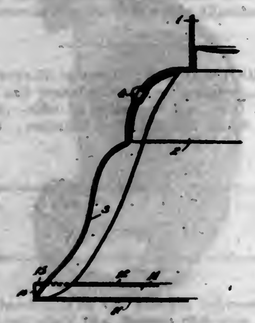
2. In a single hopper ore car, the combination with a hopper defined by side and end walls converging at their

lower edges and defining a discharge opening disposed centrally of the car, said opening being unobstructed; of doors for closing said opening; mechanism for operating said doors; and a load-sustaining underframe comprising, bolsters of relatively short length, draft sills extending outwardly beyond the bolsters, and side sills, each ex-



tending from the outer end of a draft sill diagonally across the corresponding outer end of a bolster to the outer side of the car at a point inwardly of the bolster, thence longitudinally of the car, and diagonally inwardly across the corresponding end of the other bolster to the outer end of a draft sill.

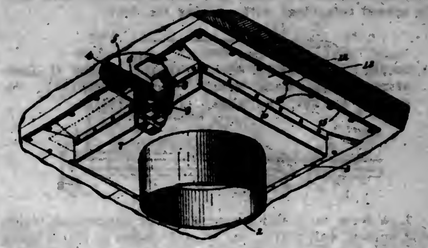
1,399,747. DRIP-PAN FOR STOVES. LEE S. CHADWICK, East Cleveland, Ohio, assignor to The Cleveland Metal Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 11, 1918. Serial No. 221,792. 4 Claims. (Cl. 126—277.)



2. The combination with a portable stove provided with legs which flare outwardly at their lower ends, of a pan on which the stove stands and above which the stove is spaced by said legs to provide an air space, said pin having a flange extending upwardly over the lower ends of the legs whereby the pan is clamped to said legs and will lift therewith when the stove is lifted.

1,399,748. DUSTPROOF CONNECTION FOR HOT-AIR-FURNACE PIPES. ANSEL J. CHENEY, Beverly, Mass. Filed Nov. 8, 1918. Serial No. 261,678. 3 Claims. (Cl. 126—317.)

1. A connection of the character described for hot air conductors for furnaces, comprising a collar to surround the conductor, said collar having a sleeve portion constructed to extend substantially parallel to and embrace the conductor and a flashing projecting away from said sleeve at an abrupt angle thereto and constructed to be secured to a support adjacent to the conductor, and



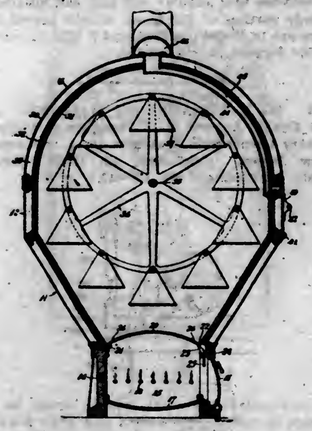
means for fastening the sleeve portion of said collar to said conductor.

1,399,749. HEADLIGHT-LENS. OLIVER E. CONKLIN, Boston, Mass. Filed May 5, 1919. Serial No. 294,908. 5 Claims. (Cl. 240—48.4.)



5. A headlight lens having vertically disposed ribs having cylindrical surfaces covering a portion of one face of said lens, and vertically disposed internal reflecting members arranged in alternation with certain of said vertical ribs.

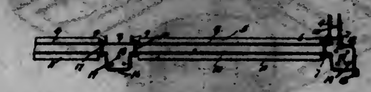
1,399,750. REEL-OVEN. JAMES DALTON, Los Angeles, and BERNARD C. DE MEULLE, Long Beach, Calif., assignors to Dalton Oven Co., a Copartnership composed of James Dalton and Bernard C. De Meulle, Long Beach, Calif. Filed June 4, 1919. Serial No. 301,805. 6 Claims. (Cl. 107—59.)



1. An oven having a baking chamber, a door for the baking chamber, a stack for said oven, flues for regulating the passage of heat from the baking chamber to said

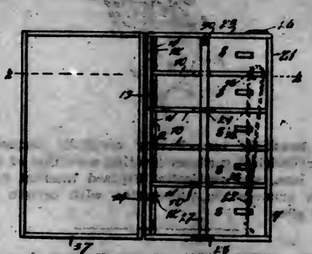
stock, a vent in open communication at one end with the stock and terminating at its other end within said baking chamber inside the door, and means whereby said vent is opened coincident with opening the door.

1,399,751. CONCRETE-WALL FORM. ALBERT H. DENNISTON, Fergus Falls, Minn. Filed Feb. 19, 1921. Serial No. 445,264. 7 Claims. (Cl. 20—131.)



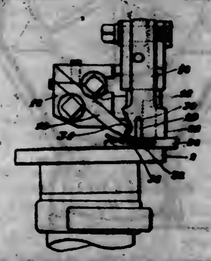
1. A form for making concrete walls comprising inside and outside wall plates, one of said classes of plates being spaced at corners and at intermediate columns, corner column forming plates connected to said spaced plates at the corners of the wall structure, and bulged intermediate column plates connected to the spaced intermediate ends of said plates and positioned to form intermediate columns.

1,399,752. WARDROBE-TRUNK. LOUIS DIAMOND, New York, N. Y. Filed Apr. 22, 1921. Serial No. 463,569. 6 Claims. (Cl. 190—13.)



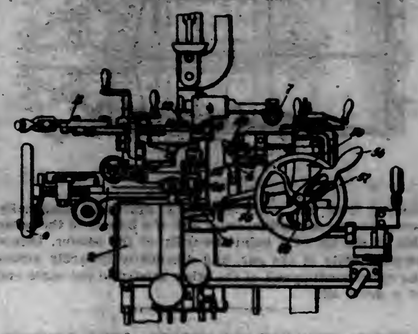
1. In a wardrobe trunk, a body portion having a rectangular cross section, trays within same arranged for removal therefrom, one end wall of each tray being angularly disposed relative to the opposite end wall, whereby a space between said angular end wall and adjacent wall of the body portion of the trunk will be provided when said trays are in closed position, and a tube for umbrellas or the like located in said space.

1,399,753. SOLE-CHANNELING MACHINE. JOSEPH HENRY DOYLE, Auburn, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 22, 1919. Serial No. 346,606. 12 Claims. (Cl. 12—27.)



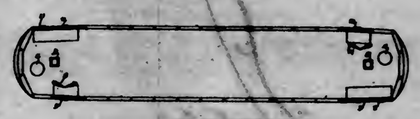
7. A sole channeling machine having, in combination, a channeling knife; an edge knife; and a presser-foot, bearing on the stock in advance of said knives throughout the length of the cutting blades thereof, having a plow like formation provided with a blunt end extending slightly beyond the heel of said channeling knife.

1,399,754. LASTING-MACHINE. RENÉ E. DUPLESSIS, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 7, 1919. Serial No. 281,115. 10 Claims. (Cl. 12—14.)



1. In a bed lasting machine, a toe head movable longitudinally of the shoe, a toe rest having a post, a member to which the toe post is connected, said member being mounted on the toe head for limited movement in the direction of the length of the shoe, and yielding means between the head and the post to enable the head to be moved longitudinally of the shoe without movement of the post.

1,399,755. RAILWAY-CAR. THOMAS ELLIOTT, Cincinnati, Ohio, assignor to The Cincinnati Car Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 21, 1921. Serial No. 463,825. 5 Claims. (Cl. 105—341.5.)



1. A double-ended one-man car having front and rear doorways at each side thereof, and signs for said doorways, the signs on one side comprising an entrance legend at one doorway and an exit legend at the other doorway, and the signs on the other side comprising an exit legend at one doorway and an entrance legend at the other, so that such car may be used on the "pay as you enter" system when the entrance legend is at the front doorway and the exit legend at the rear doorway or on the "pay as you leave" system when the entrance legend is at the rear doorway and the exit legend at the front doorway.

1,399,756. AIR-HEATER. EARL J. ELLISON, Maywood, Ill., assignor to Ellison Engineering & Furnace Co., Chicago, Ill., a Corporation of Illinois. Filed Nov. 15, 1920. Serial No. 424,019. 22 Claims. (Cl. 126—104.)

1. In a heater, the combination with a combustion chamber of a radiating section mounted above the combustion chamber, the rear wall of the heater being spaced from the rear wall of the combustion chamber, means for admitting air to be heated into the space between said walls, a baffle plate between the combustion chamber and the radiator section for causing horizontal forward flow of air along the combustion chamber and a second baffle

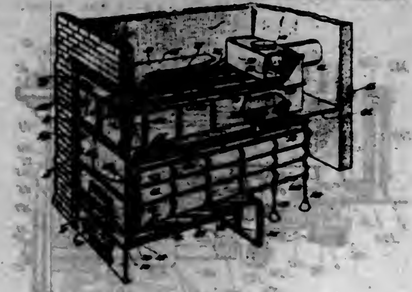


plate above the radiator section for causing horizontal flow of air in a reversed direction along the radiator section.

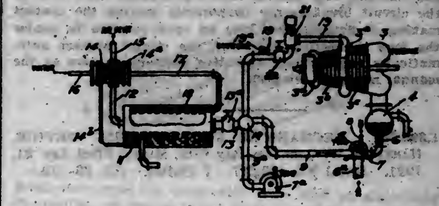
1,399,757. PHONOGRAPHIC TABLET. VICTOR H. EMERSON, New York, N. Y. Filed Aug. 6, 1919. Serial No. 315,682. 2 Claims. (Cl. 274—42.)



1. A sound reproducible record tablet having a base whose margin simulates the outlines of an object to which the subject matter of the record relates.

1,399,758. APPARATUS FOR CONSERVING MOTIVE FLUID. WARREN B. FLANDERS, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Co., a Corporation of Pennsylvania. Original application filed July 22, 1915, Serial No. 41,265. Divided and this application filed July 6, 1918. Serial No. 243,656. 8 Claims. (Cl. 257—26.)

1. A feed-water heating system comprising a closed contact heater, means for supplying heating fluid to said heater, a surface heater arranged above the contact heater, a vent connection between the contact and surface heaters and having such capacity as to assure the transfer of the major portion of the heat in the contact heater, an atmospheric vent communicating with the surface heater, means for passing water successively



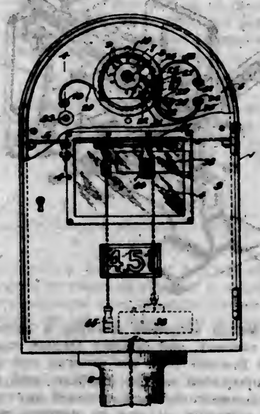
through the surface and contact heaters, and a drain connection for conducting condensate from the surface heater to the contact heater.

1,399,759. IRREMOVABLE CAP FOR CONTAINERS. HARRY W. FULENWIDER, St. Louis, Mo. Filed Oct. 27, 1919. Serial No. 333,711. 2 Claims. (Cl. 220—33.)



1. The combination with a threaded container fitting having a bearing and a threaded cap having a circular way, a pivot-pin having a head occupying said way and extended through said bearing and provided with a fixed stop to prevent its withdrawal from the bearing.

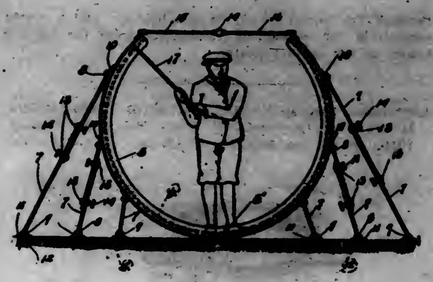
1,399,760. FIRE-ALARM SYSTEM. MANIOUS GARL, Akron, Ohio. Original application filed May 18, 1917, Serial No. 169,567. Patent No. 1,363,246, dated Dec. 28, 1920. Divided and this application filed Aug. 20, 1920. Serial No. 404,871. 5 Claims. (Cl. 179—5.)



1. In an alarm system, the combination with a normally closed main line circuit, of a series of mechanical circuit breakers interposed in the closed circuit at different stations therein and each including a movable contact making element, a signal operable by the breaking of the closed circuit by the circuit breaker at any one

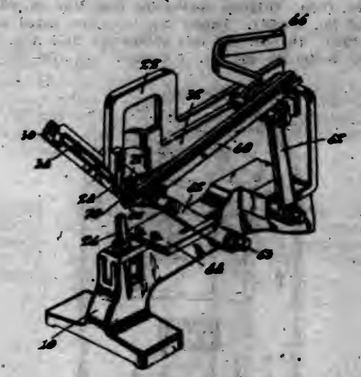
of the stations, a loop connection adapted to be introduced into the main line closed circuit at any one of the stations, and manual means associated with each of the circuit breakers for temporarily moving the contact making element thereof into an open position to render the loop connection operative, the circuit breaker automatically resuming an operative position as soon as the manual means is released.

1,399,761. MECHANICAL GOLF-TEACHING DEVICE. Harrison W. Garland, Bay City, Mich. Filed Apr. 21, 1921. Serial No. 463,217. 7 Claims. (Cl. 35—12.)



1. A mechanical golf teaching device comprising a curved flexible member adapted to receive the head of a golf club.

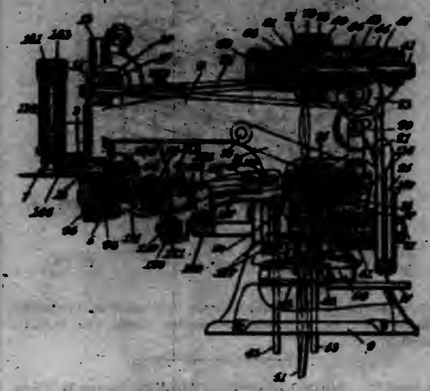
1,399,762. BUTTON-ATTACHING MACHINE. Perley B. Glass, Brookline, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 11, 1918. Serial No. 233,975. 23 Claims. (Cl. 218—9.)



1. In a button attaching machine, a button raceway, a fastener raceway, and fastener transferring means for removing a fastener from the raceway and delivering it to other mechanism of the machine, said transferring means being constructed and arranged to extend beneath the lower extremity of and to support said fastener during its removal from a position opposite the end of the fastener raceway.

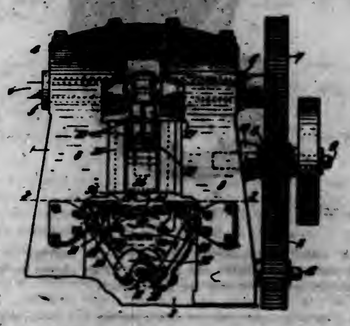
23. In a button attaching machine, attaching mechanism, button and fastener raceways, and means carried by the button raceway for positioning a fastener for cooperation with the attaching mechanism.

1,399,763. SKIVING-MACHINE. Perley R. Glass, Brookline, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 13, 1919. Serial No. 276,980. 14 Claims. (Cl. 69—16.)



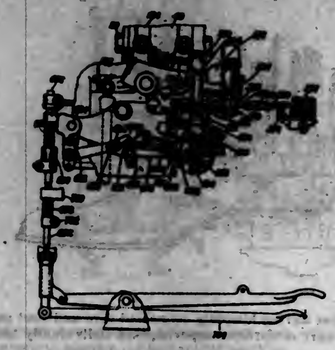
14. A machine of the class described, having in combination, a frame having an overhanging arm, a rotary knife shaft mounted in said arm and held from movement in any manner other than rotary, a disk knife fast to the lower end of the shaft, a feed roll located beneath the knife, and means whereby the feed roll may be adjusted both angularly and toward and from the knife.

1,399,764. AUTOMATIC FORGING-MACHINE FOR THE MANUFACTURE OF HORSESHOES AND OTHER ARTICLES. Donegood F. Glynn, Randwick, New South Wales, Australia. Filed Aug. 2, 1918. Serial No. 248,065. 14 Claims. (Cl. 59—46.)



1. In an automatic forging machine, a frame, guides in said frame, slides in said guides, dies or tools mounted on said slides, means for operating said slides from different directions and in different planes to a common point, means controlling the timing of the movement of said slides to conform to a definite sequence and relationship, a magazine feeding heated blanks to said dies, a cut-off gate in said magazine, means automatically operating said gate in unison with the movements of said slides, an extractor removing the forged work from said dies, and means automatically operating said extractor in unison with the movements of said slides, substantially as described.

1,399,765. MACHINE FOR INSERTING FASTENINGS. Georges Gerod, Winchester, and Fred L. Mackenzie, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 10, 1919. Serial No. 270,502. 16 Claims. (Cl. 1—6.)



1. In a machine of the class described, fastening inserting mechanism comprising a raceway having a plurality of slots adapted to support and guide fastenings of different character, means for shifting the raceway to change the character of fastening inserted by said mechanism, controlling means for the shifting means, a gage for positioning the work relatively to the fastening inserting mechanism by engagement with the edge of the work, and power-operated means rendered operative by movement of the controlling means to effect movement of the gage from one gaging position to another concurrently with the shifting of the raceway.

1,399,765. SOLE FOR BOOTS AND SHOES. James E. Groseman, Lima, Ohio. Filed July 17, 1919. Serial No. 311,497. 8 Claims. (Cl. 36—30.)



5. A shoe sole comprising a tread, a heel, and a shank portion, the first named portion being composed of rubber and fabric strips arranged endwise, the other portions being composed of rubber and cork composition, a fabric strip joining the said portions extending over the top of the heel and shank portions and bent under and embedded in the tread portion, and a flexible base over the sole.

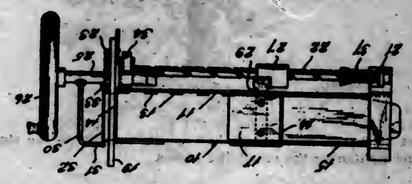
1,399,767. CELLULAR RADIATOR. August William Louis Hartbauer, Detroit, Mich. Filed Feb. 15, 1919. Serial No. 277,179. 2 Claims. (Cl. 257—130.)

1. A cellular radiator comprising water tubes made up of spaced sheet metal plates, said tubes being arranged side by side to form a narrow vertical passage therebetween, angularly corrugated sheet metal perforated radiating plates arranged in said passages with the longitudinal edges of the corrugations disposed vertically, said plates being of spring metal and held in contact with the sides of said tubes by resilient pressure, said radiating plates terminating short of the front and rear ends of said tubes and



being insertable and removable from said passages only by vertical movement when said passages are open at their ends.

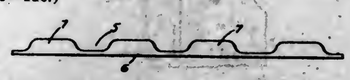
1,399,768. AUTOMATIC BUTTER-DISPENSER. Edmund Hartung, Jersey City, N. J. Filed Mar. 30, 1921. Serial No. 457,004. 2 Claims. (Cl. 31—65.)



1. A device of the class described comprising a trough, a compressor operable within the trough to force matter contained in said trough through one end of said trough, means to intermittently advance the compressor, means associated with the advancing means for severing that portion of the contents of the trough forced beyond its end and means for permitting the compressor to automatically return to withdrawn position.

2. A device of the class described comprising a magazine, a trough supported beneath said magazine and adapted to receive the contents thereof, a compressor within the trough, one end of said trough being open, means to intermittently advance the compressor toward the open end of the trough, a severing wire adapted to sweep the open end of the trough, to cut that portion of the contents of the trough forced beyond its end from the portion of the contents remaining in the trough, and automatic means for withdrawing the compressor.

1,399,769. SOLDERING-STRIP. Francis Hodgkinson, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Co., a Corporation of Pennsylvania. Filed Nov. 24, 1917. Serial No. 203,852. 4 Claims. (Cl. 113—110.)

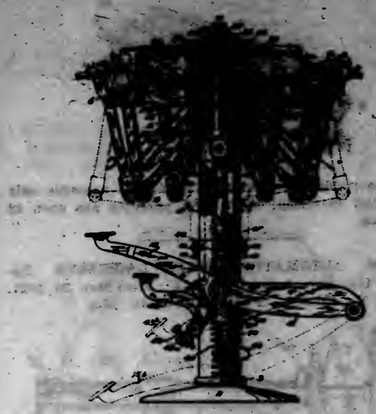


1. A soldering strip composed of sections of relatively large mass joined by elongated sections of relatively small mass and cross sectional area, whereby the latter sections are fused before the former when heat is applied to the strip.

1,399,770. METHOD OF SHAPING AND TRUING WIRE WHEELS. Henry A. House, Jr., Buffalo, N. Y., assignor to Wire Wheel Corporation of America, a Corporation of New York. Original application filed Oct. 31, 1916, Serial No. 128,802. Divided and this application filed Mar. 22, 1918. Serial No. 224,069. 6 Claims. (Cl. 29—174.)

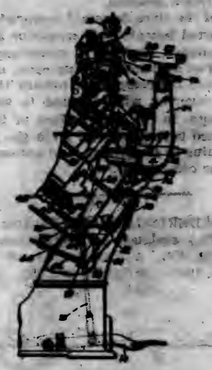
1. The method of truing and tensioning a wire wheel having a hub, a rim and a plurality of spokes connecting

said hub and rim comprising the following elements embracing the hub and rim relative to each other, tightening one



set of spokes, shifting the hub axially relative to the rim and tightening the remaining spokes.

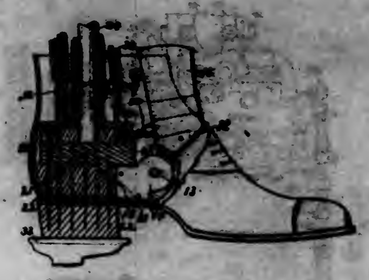
1,399,771. WORK-SUPPORTING MEANS FOR SHOE-MACHINES. CHARLES H. HOTZ, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 21, 1919. Serial No. 334,777. 36 Claims. (Cl. 12—4.)



1. In a machine of the class described, the combination with means for operating on a shoe, of a shoe support mounted for movement from an idle position into operative relation to the shoe, and separately operated power mechanisms arranged to act in succession to initiate and to complete respectively the movement of the support into operative relation to the shoe.

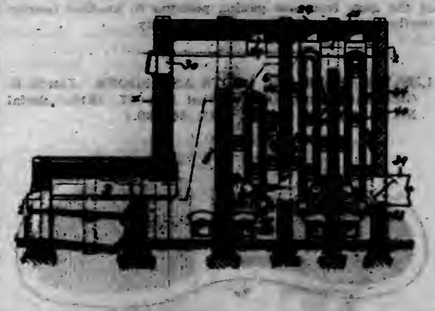
1,399,772. LAST AND DEVICE FOR ATTACHING HEELS. CHESTER HUNT, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 7, 1919. Serial No. 287,972. 10 Claims. (Cl. 1—32.)

1. In an apparatus of the class described, nail supplying and guiding means, nail-driving means, and a last having a heel part provided with holes corresponding to the guiding means, and interfitting means between the heel part and the mold means whereby the parts are held in proper operative relation during the driving of nails through the heel part.



4. A last having hingedly connected fore and heel parts, the heel part comprising superimposed individually hinged sections.

1,399,773. STEAM-SUPERHEATER. DAVID S. JACOBUS, Jersey City, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Original application filed Aug. 12, 1915, Serial No. 45,890. Divided and this application filed Nov. 27, 1920. Serial No. 426,758. 7 Claims. (Cl. 122—486.)

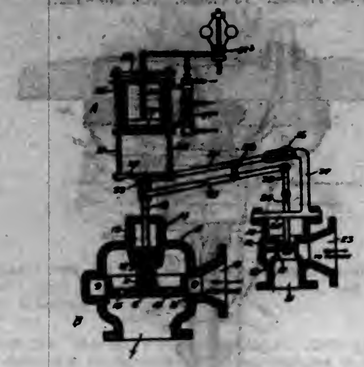


1. An independently-fired superheater comprising a setting, division walls therein to provide a plurality of chambers, said walls being provided with openings to permit the gases to flow through said chambers, a superheater section in each of said chambers, a wall disposed in front of the first section of the superheater and forming with the setting a secondary combustion chamber, the ends of the tubes of the first section of the superheater being short of the opening from the secondary combustion chamber to the first superheater chamber.

1,399,774. CONTROL MECHANISM. JOSIAH FRANCIS JOHNSON, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 31, 1917. Serial No. 171,906. 16 Claims. (Cl. 137—153.)

1. In a control mechanism, substantially parallel members connected together at an intermediate point by a pivotally mounted connecting member, one end of one member being restrained by a fixed pin so that synchronous move-

ments of the other ends of the members will not affect the substantially parallel relation of the two members, and



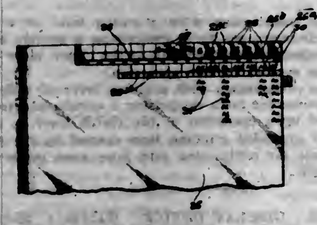
independent movements of said other ends will cause the members to assume a non-parallel position.

1,399,775. COMMON-BATTERY SUBSTATION. KENNETH S. JOHNSON, Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 1, 1918. Serial No. 214,944. 32 Claims. (Cl. 179—81.)



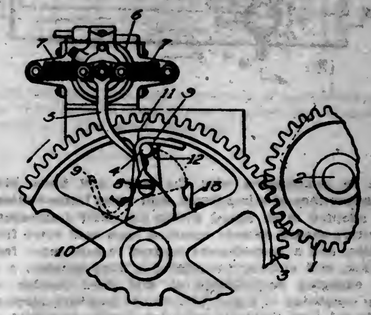
1. An anti-side tone substation circuit including branches conjugate with respect to signaling currents, a transmitting instrument and a receiving instrument in said branches respectively, a ground connection, and a substation terminal so arranged that a direct potential difference between said ground and said terminal will cause current to flow through said transmitting instrument.

1,399,776. ACCOUNT-LEDGER. SIMEON B. KIRTLEY, Columbia, Mo. Filed Mar. 1, 1920. Serial No. 362,277. 10 Claims. (Cl. 283—37.)



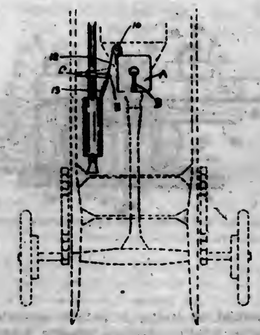
1. An account ledger, having series of master index sheets cut away in stepped relation to form a visible space upon each sheet of the series for the reception of a master index; a master index on the visible space of each of said sheets; a series of insert sheets before the series of master index sheets cut away in stepped relation to expose all of the master indexes of the series to which the insert sheets belong and to provide visible spaces adapted to have entered thereon identifications of the accounts contained on said insert sheets respectively; and a division sheet, before the series of master index sheets and insert sheets, having designating characters thereon indicating respectively the positions of all of the master indexes and also the positions of the cut away portions of the visible index sheets.

1,399,777. AUTOMATIC TIMING MECHANISM FOR OSCILLATING MAGNETOS. GUSTAVE J. LANG, Weehawken, N. J., assignor to American Bosch Magneto Corporation, Springfield, Mass., a Corporation of New York. Filed Apr. 8, 1919. Serial No. 288,611. 18 Claims. (Cl. 123—148.)



1. The combination with an internal combustion engine, of ignition generating apparatus therefor comprising an oscillating magneto, and means for oscillating said magneto in fully retarded or advanced positions, said means comprising means automatically actuated by said engine for changing the period of actuation of the oscillating means from full retard to full advance in a single step.

1,399,778. ROAD-VEHICLE SIGNAL. OSCAR LEHMANN, Salt Lake City, Utah. Filed May 27, 1921. Serial No. 473,106. 3 Claims. (Cl. 116—138.)



1. A signal for road vehicles comprising a longitudinally movable shifting fork of the reverse mechanism of an

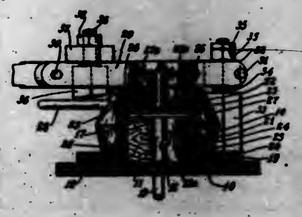
automobile; a lever to move said fork endwise; a sheave pulley mounted adjacent said fork; another lever fulcrumed on and connected with a valve in the exhaust pipe of said vehicle; and a cable fastened at one end to said fork and at its other end to the last mentioned lever.

1,399,779. BAG-FRAME CATCH OR HASP. WILLIAM A. LOTZ, Newark, N. J., assignor to The R. Neumann Hardware Co., a Corporation of New Jersey. Filed June 15, 1918. Serial No. 240,162. 2 Claims. (Cl. 70—116.)



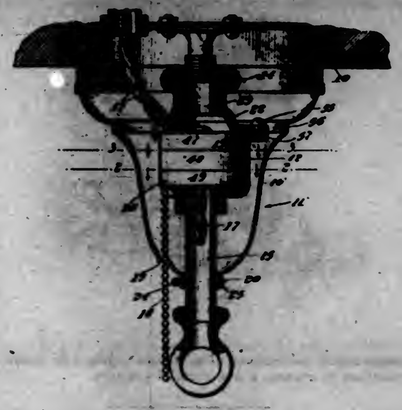
2. In combination with the outer and inner hinged frame-sections of a bag frame, said inner frame-section being adapted to be closed within the outer frame-section, a button-shaped element mounted upon said outer frame-section, and a hasp-element secured to said inner frame-section, said element comprising a fixed member, a button engaging hasp hinged to said fixed member, said hasp consisting of a pair of resilient members adapted to be forced into separable retaining engagement with said button, and being further adapted to be folded down against the outer face of said outer frame-section so as not to interfere with the closing of said frame-sections, and a fingerpiece connected with said resilient members.

1,399,780. METHOD AND APPARATUS FOR LINING RECEPTACLES. FRANK J. MACDONALD, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed June 8, 1921. Serial No. 476,085. 18 Claims. (Cl. 18—1.)



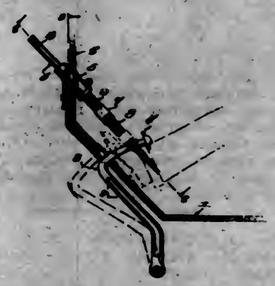
1. The method of lining a hollow structure with a plastic material which comprises placing a sheet of said material within the structure, pressing it lightly against the wall of the latter to cause it to adhere thereto, and applying fluid pressure to said plastic material.

1,399,781. SWITCH. FREDERICK A. MANAU, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, a Corporation of Illinois. Filed June 10, 1917. Serial No. 175,262. 18 Claims. (Cl. 240—122.)



18. In an electric lighting fixture, a pull switch, an open work cage to removably hold the switch, said cage being constructed and arranged to be interposed in and forming part of a lighting fixture.

1,399,782. COMBINATION AUTOMOBILE LOCK AND THIEF-TRAP. BENJAMIN H. MANN, Milwaukee, Wis. Filed May 16, 1921. Serial No. 470,006. 9 Claims. (Cl. 43—50.)

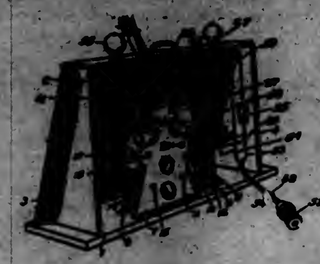


4. The combination with a clutch lever of a device of the character set forth comprising a spindle adapted to be projected upon operation of the clutch lever to lock the same against further operation.

6. The combination with a clutch lever of a device of the character set forth comprising a spindle adapted to be projected upon operation of the clutch lever, a pair of normally expanded gripping jaws carried by the spindle, and means for contracting said jaws upon projection of the spindle.

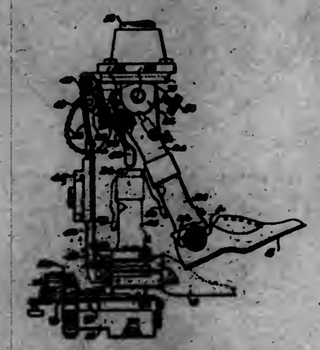
1,399,783. DISPLAY DEVICE. WALTER I. MAYER and FREDERICK BEAGLE, Kansas City, Mo., assignors to The Victory Advertising Manufacturing Company, Kansas City, Mo., a Corporation of Missouri. Filed Mar. 8, 1921. Serial No. 449,587. 5 Claims. (Cl. 40—104.)

1. In a device of the class described, a plurality of independently movable panel-carrying gears, complementary gears meshing therewith and having laterally projecting arms, a rotative disk having fingers to selectively



contact with the arms on the complementary gears, and move them to progressively turn the panels, and means for actuating said disk.

1,399,784. MACHINE FOR OPERATING UPON SHOES. BENJAMIN F. MATO, Salem, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 6, 1918. Serial No. 238,519. 32 Claims. (Cl. 1—32.)



8. In a heel-attaching machine, a movable jack post, a movable band-clamp, connections between the jack post and band-clamp, and means for controlling the movement of the band-clamp independently of the jack post.

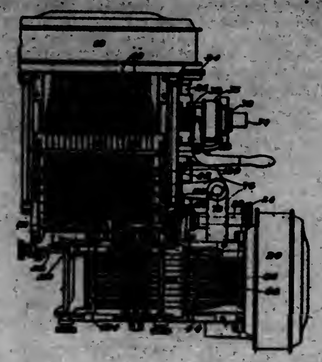
15. In a machine of the class described, means for applying pressure to the work, and a gage consisting of sections extending along the edge of the work, one of the sections being carried by the other and arranged to yield thereon in the direction of said pressure.

26. In a heel-attaching machine, a frame, loader mechanism movable on the frame and having a nail gate, an adjustable cross-head, a tripping member for the nail gate carried by the cross-head, and means constructed and arranged for adjusting the tripping member to compensate for the adjustment of the cross-head.

1,399,785. NAIL-DISTRIBUTING APPARATUS. BENJAMIN F. MATO, Salem, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 21, 1918. Serial No. 235,800. 27 Claims. (Cl. 1—39.)

1. In a nail-distributing apparatus, a plurality of receptacles for holding a supply of nails in bulk, a nail conveyer coöperating with each receptacle, means for moving one of the conveyers longitudinally, and connections from said conveyer to another conveyer to cause them to move together.

21. In a nail-distributing apparatus, a nail-way provided with nail channels, a series of nail-tubes, and a discharge roll interposed between the nail-way and tubes,



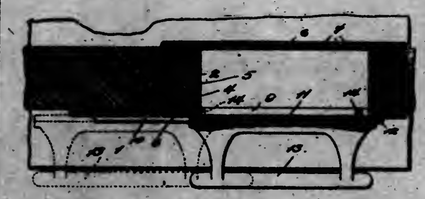
said roll being provided with plural sets of depressions arranged for alinement with sets of adjacent nail channels and delivering to a single nail-tube.

1,399,786. BENCH-VISE. JACK E. MESSENGER, Des Moines, Iowa. Filed June 1, 1920. Serial No. 385,498. 5 Claims. (Cl. 81—17.)



1. A vise, comprising a suitable base formed with a hole and also formed with radial notches intersecting said hole and also formed with radial grooves intersecting said hole and notches, an annular rotatable operating device overlying said base, jaw-stems slidingly mounted in said radial grooves and formed with heads adapted to be received in said radial notches and also formed with lugs, said operating device being formed with a spirally arranged groove receiving the lugs of said jaw-stems providing connections between said operating device and said jaw stems whereby rotary movement of the operating device effects rectilinear movement of the jaw stems.

1,399,787. WINDOW-VENTILATOR. SAM MEYER, St. Louis, Mo. Filed Oct. 22, 1918. Serial No. 259,214. 2 Claims. (Cl. 98—31.)



2. The combination with a window sash having a rail provided with an elongated opening therein, of a ventilator, comprising a plate of greater length than the opening in said sash rail adapted to be fixed upon said rail and having an elongated opening toward one end thereof registering with the opening in said sash rail and provided with spaced undercut longitudinal projections upon opposite sides of the elongated opening therein and extending

throughout substantially the length of the plate to form a guideway thereon, said guideway being open at one end and closed at its other end adjacent to the end of the opening in the plate, a closure slide of less length than the plate adapted to close the opening in said plate and having a dovetailed projection adapted to be slid into said guideway at the open end thereof and over the opening in said plate, a stop pin secured in said slide and projecting into the slot in said plate and serving as a stop to limit the opening movement and displacement of the slide, and a hand grip projecting from and carried by said slide, the extension of the plate beyond the opening therein serving as a support for the slide when in open position.

1,399,788. GAS-MIXER. Joseph Needham, Passaic, N. J. Filed Jan. 8, 1921. Serial No. 435,825. 6 Claims. (Cl. 158—118.)

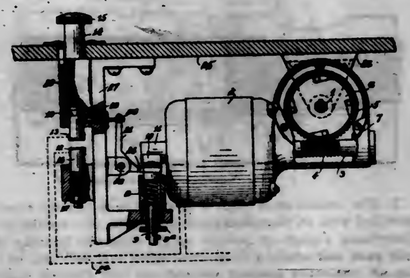


1. A device of the class described, comprising a main apertured body portion, a supplemental tubular body portion, means whereby the main body portion may be adjusted longitudinally of the supplemental body portion, a fuel supply device extending into the main body portion and upon which the same is movable, and a tubular member in the main body portion and adapted to extend into the supplemental body portion and provided with an outwardly flaring throat in connection with which said fuel supply device is adapted to operate to control the entrainment of air through said throat.

1,399,789. METHOD OF COMPOUNDING OF RUBBER PRODUCTS. Clayton Olin North, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed June 11, 1920. Serial No. 388,298. 15 Claims. (Cl. 106—23.)

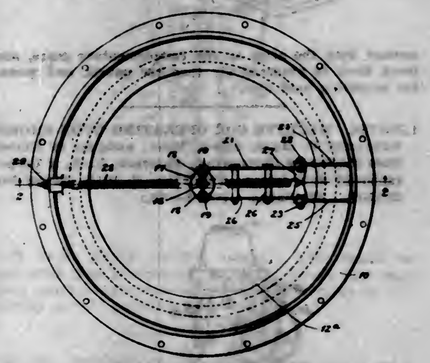
1. In the manufacture of rubber goods containing a gel forming substance and a finely divided ingredient, the mixing method which consists in preparing an emulsion of the gel forming substance, by means of a volatile liquid mixing the finely divided ingredient therewith and then incorporating the whole into rubber.

1,399,790. WINDING MEANS FOR SPRING-MOTORS. James J. Phillips, Rochester, N. Y. Filed Sept. 25, 1919. Serial No. 326,167. 2 Claims. (Cl. 185—40.)



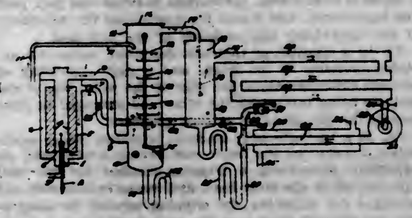
1. In combination with a shaft of a spring motor, a winding mechanism comprising an electric motor having driving connection with the spring motor and mounted to swing about said shaft as an axis, spring means resisting the turning of said motor about the shaft as an axis, a switch for the circuit of the electric motor having a part with a normal tendency to move to a position to break the circuit, and a detent for holding said switch part in a position to make the circuit controlled by the movement of the electric motor about the shaft axis against the action of the spring.

1,399,791. VALVE STRUCTURE. Robert M. Pierson, Akron, Ohio, assignor to the B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Oct. 29, 1919. Serial No. 334,332. 7 Claims. (Cl. 244—3.)



1. In combination, a valve-seat surrounding a port, a valve, and means for guiding said valve in an arcuate path toward and from its seat in successive positions of substantial parallelism to itself and to the plane of said seat.

1,399,792. METHOD OF TREATING ASPHALTIC OILS. Paul Prutzman and Guy L. Goodwin, Santa Maria, Calif., assignors, by mesne assignments, to General Petroleum Corporation, a Corporation of California. Filed Sept. 27, 1917. Serial No. 193,420. 12 Claims. (Cl. 196—27.)

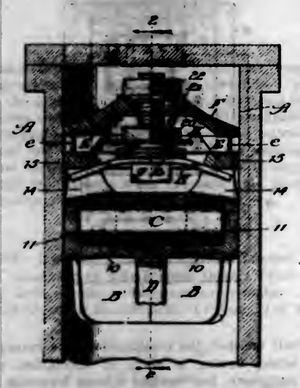


6. The method of producing a single fractionation of liquid hydrocarbon, which consists in subjecting the exposed surface of an undivided body of liquid hydrocarbon to the direct action of a flowing body of hot products of combustion free from oxygen and reduced in temperature for absorbing and removing the vapors therefrom.

1,399,793. METHOD OF MAKING WINGED NUTS AND THE LIKE. Edgar Howard Reed, Worcester, Mass. Filed Mar. 13, 1920. Serial No. 365,592. 4 Claims. (Cl. 10—86.)

1. The method of making articles having a central main portion with projections therefrom, which consists in upsetting a cylindrical wire blank in an axial direction without changing the shape of a portion of said original blank, and forming the projections from the metal originally in the body of said blank and thereafter compressing the said projections laterally to finish them.

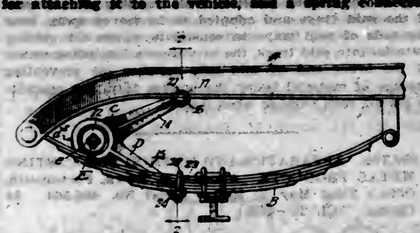
1,399,794. PISTON. Joseph Reid, Hebron, Ind., assignor of forty-five per cent. to Francis E. Ling, Hebron, Ind. Filed Aug. 9, 1918. Serial No. 249,125. 16 Claims. (Cl. 74—108.)



1. A piston of the character described, comprising a body composed of separate longitudinal sections, the walls of said sections being formed upon their interior with integral seats having closed outer ends and a pin for attachment to the piston rod, the outer ends of said pin terminating inside said seats.

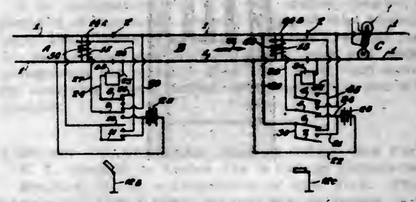
1,399,795. SHOCK-ABSORBER FOR AUTOMOBILES AND OTHER VEHICLES. Joseph Reif, Hebron, Ind., assignor of forty-five per cent. to Francis E. Ling, Hebron, Ind. Filed June 1, 1920. Serial No. 385,481. 9 Claims. (Cl. 267—9.)

1. A shock absorber comprising a pair of relatively revoluble members arranged substantially one within the other and having the cam-shaped outer wall of the inner member engaging the cam-shaped inner wall of the outer member, a connector united to each of said members for attaching it to the vehicle, and a spring connected



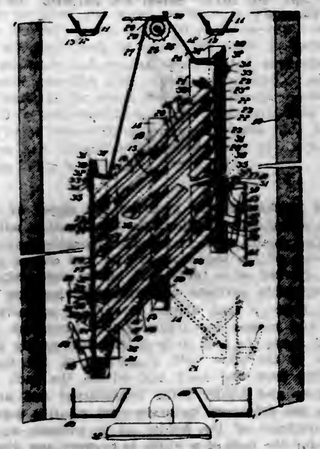
to said members and adapted to oppose their relative movement at an angle to their plane of revolution.

1,399,796. AUTOMATIC TRAIN-CONTROL SYSTEM OR THE LIKE. Oscar A. Ross, Brooklyn, N. Y. Filed Apr. 3, 1917. Serial No. 159,328. 7 Claims. (Cl. 246—194.)



1. In a system of the kind described, a vehicle, a roadway therefor divided into blocks, track circuits therefor, inductive means on said roadway included in one of said track circuits, means for disconnecting each of said inductive means from one track circuit and connecting it to another and means for utilizing said inductive means.

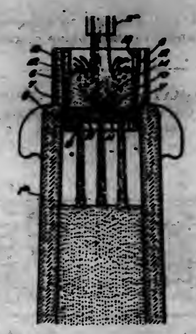
1,399,797. APPARATUS FOR TREATING GRAIN, &c. William Roetzel, Chicago, Ill. Filed June 10, 1918. Serial No. 239,149. 9 Claims. (Cl. 34—36.)



6. The combination of a plurality of trays vertically spaced and superposed one above the other, said trays

being mounted to tilt in unison, and a gate member adapted to prevent material from running off the ends of the said trays and adapted to be moved away from the ends of said trays to constitute means for guiding material into said trays, the arrangement including means at the lower end of said gate member for preventing passage of material below the bottom tray, but operable to permit such passage when desired.

1,399,798. APPARATUS AND METHOD FOR CASTING METAL PRODUCTS. Andrew R. Rowe, Portsmouth, Ohio. Filed May 3, 1921. Serial No. 466,564. 14 Claims. (Cl. 22—209.)



1. A method of depositing materials in a mold which consists in providing an open top body for the material in the upper end of the mold, discharging material into said body in a relatively large jet, discharging material from the body into the mold in relatively small streams and conducting the air from the mold around the exterior of the material in the body.

1,399,799. TACKING MECHANISM. Edgar E. Bowe, Chicago, Ill., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 30, 1918. Serial No. 231,616. 13 Claims. (Cl. 1—16.1.)



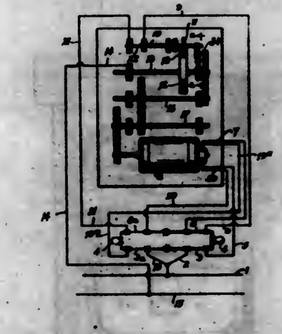
12. In mechanism for securing the upper of a turn shoe in pulled-over position, the combination with shoe positioning means, of a tack holder movable transversely of the edge of the shoe bottom into and out of position for the driving of a tack, said holder comprising relatively separable portions constructed to position a tack between them, a tack driver, means for operating said driver, and means for limiting the movement of the driver to cause the tack to be driven only partly through the sole of the shoe with a portion of the tack left upstanding from the work and within the tack holder, said driver and holder being constructed and arranged to cause the driver to maintain such relative separation of the portions of the holder as to provide an outlet passage for the tack of a width to prevent any displacing action of the holder on the tack during the movement of the holder to clear the tack.

1,399,800. WASHING-MACHINE DRAW-OFF. Fourie Russell, Spokane, Wash. Filed June 21, 1920. Serial No. 390,388. 4 Claims. (Cl. 68—21.)



1. A washing machine comprising an outer closed casing and a tub mounted for to and fro movement in said casing, characterized by a flexible draw-off tube structure in fixed water receiving connection with said tub and extending through said casing and having a cock outside of said casing, whereby draw-off from said tub may be effected from the exterior of said casing without requiring an opening therein.

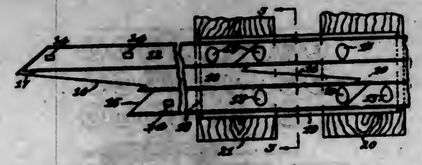
1,399,801. CIRCUIT-BREAKER FOR REVERSIBLE MOTORS. Lester E. Samuel, Brownsville, Oreg. Filed Apr. 17, 1920. Serial No. 374,716. 1 Claim. (Cl. 172—240.)



In a circuit breaker, the combination of a rotary circuit breaking wheel having a strip of insulating material across its periphery, two contact wheels traveling on said periphery, flexible shafts supporting the contact wheels, tension springs attached to the flexible shafts to press the contact wheels against the periphery of the circuit breaking wheel, a reversible motor, a train of gears between the motor and the circuit breaking wheel, two electric circuits for operating the motor in either direction, each circuit having a separate contact wheel but having the circuit breaking wheel in common, a manually operated switch to send an electric current through either one of the circuits, said current being automatically interrupted when one of the contact wheels arrives on the insulating strip of the circuit breaking wheel.

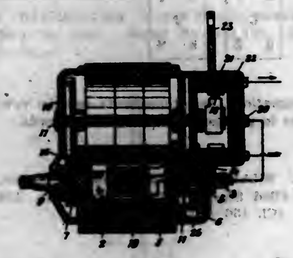
1,399,802. RAILWAY-TRACK. Harvey C. Sawyer, St. Paul, Minn. Filed Oct. 18, 1920. Serial No. 416,609. 1 Claim. (Cl. 238—282.)

In a railway track a plurality of rail sections having ends formed by two inclined plain surfaces and a vertical plain surface intersecting said inclined surfaces obliquely, a plate adapted to support the junction of rail sections



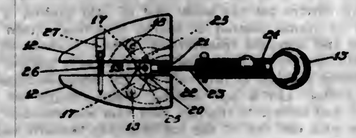
and means for securing said plate against longitudinal and transverse movement.

1,399,803. MAGNETO-ELECTRIC SPARKING APPARATUS. Max Schaefer, Stuttgart, Germany, assignor to Firm of Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Filed Aug. 20, 1919. Serial No. 318,769. 6 Claims. (Cl. 123—149.)



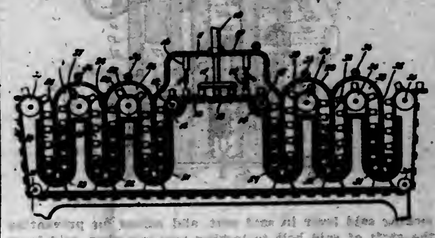
1. Magneto-electric sparking apparatus comprising, a stationary armature, a field magnet with pole pieces opposite to the said armature, movable pole faces between the pole pieces and coupled with the said armature, magnetic flux-directing members adapted to rotate between the pole faces and the armature, and means for turning the movable pole faces with the armature so as to shift the magnetic flux that passes from the said pole pieces through the armature, substantially as described.

1,399,804. SHOE-FORM. John C. Schelter, Rochester, N. Y., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me., a Corporation of Maine. Filed Apr. 21, 1919. Serial No. 291,539. 1 Claim. (Cl. 12—128.2.)



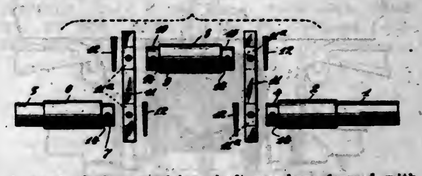
A shoe form comprising two forepart sections loosely confined at their forward ends and arranged to spread freely laterally, a pivotally connected pair of toggle links connecting the sections, said links being formed of sheet metal and each having a struck-up tongue on one edge arranged to abut against the end of the other link as the links are opened to expanded position to act as a limiting stop, whereby to arrest the links before the pivot of the said pivotal connection has passed the line joining their extremities, a heel member and a universal joint connecting said heel member with said pivot, the last-named connection also comprising means to separate the heel member from the forepart members and simultaneously to expand the toggle links, said forepart sections having stepped slots in which the toggle links are mounted, said steps corresponding to the thicknesses of the links, tongues and universal joint respectively, to secure minimum removal of wood from the sections and proper alinement between the parts.

1,399,805. VACUUM CAN-SEALING MACHINE. Laurence Oliver Schoff, St. Louis, Mo. Filed July 15, 1920. Serial No. 396,584. 13 Claims. (Cl. 113—82.)



1. In combination with a vacuum sealing chamber, a plurality of successive connected U-shaped inlet passageways, and a series of successive connected U-shaped outlet passageways, and which U-shaped inlet and outlet passageways are partially filled with liquid, and means for conveying objects through said passageways and said chamber.

1,399,806. CRANK-SHAFT. Edgar Scofield, New York, N. Y., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 10, 1919. Serial No. 281,780. 1 Claim. (Cl. 74—38.)



A crank shaft comprising shaft members formed with journal portions and wrist portions, a crank pin formed with a journal portion and wrist portions, crank arms provided with apertures in which the wrist portions of the shaft members and crank pin are seated, said shaft members being provided with shoulders disposed to abut associated faces of the crank arms, and securing means adapted to draw said shoulders against said faces, said securing means being removably seated in the crank arms and wrist portions and extending transversely of the latter to retain the parts in assembled relationship.

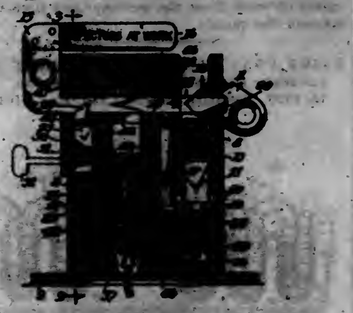
1,399,807. CATALYZER FOR AND PROCESS OF PRODUCING OXIDS OF NITROGEN. Wilfred W. Scott, Grantwood, N. J., assignor, by mesne assignments, to Atmospheric Nitrogen Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 7, 1918. Serial No. 253,071. 3 Claims. (Cl. 23—28.)

2. A catalyzer for producing oxids of nitrogen comprising a product which may be obtained from the ignition of a mixture of cobalt nitrate and aluminum nitrate, substantially as described.

1,399,808. SAFETY-LOCK FOR SWITCH-STANDS. Christopher H. Sweers, Chicago, Ill. Filed Sept. 13, 1920. Serial No. 410,053. 8 Claims. (Cl. 70—128.)

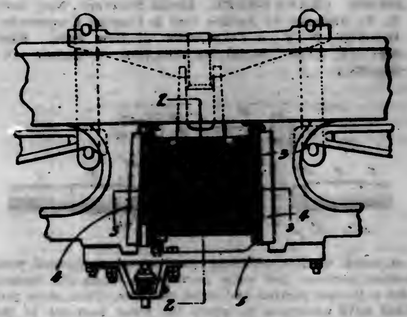
1. In a switch stand, the combination with an operating shaft and throw lever therefor, of a support having

a seat for receiving said lever when the latter is at the end of its throw, a bolt slidable into said support for



locking said lever in said seat, and means for preventing the shift of said bolt to locking position when said lever is out of said seat.

1,399,809. ADJUSTABLE DRIVING-BOX. WILLIAM M. SHOEMAKER, St. Louis, Mo., assignor to Commonwealth Steel Company, St. Louis, Mo., a Corporation of New Jersey. Filed June 27, 1921. Serial No. 480,778. 20 Claims. (Cl. 105—61.)



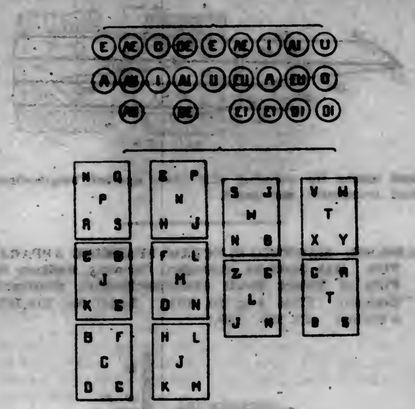
1. In combination with a locomotive pedestal, an axle journal box, and means for adjusting the movement of said box transversely of the pedestal.

1,399,810. IRON OR STEEL BEARING ELEMENT AND METHOD OF MAKING SAME. ROBERT JAY SHOEMAKER, Chicago, Ill., assignor to Leadising Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 13, 1921. Serial No. 461,032. 9 Claims. (Cl. 148—28.)

1. A composite metal article consisting of a base of iron or steel and a facing of anti-friction metal united to the base by an intervening film of a bonding metal composed principally of lead.

1,399,811. WORD CARD GAME. FRANCES C. SMITH, Atlanta, Ga. Filed Jan. 10, 1921. Serial No. 436,192. 4 Claims. (Cl. 35—9.)

1. An article of manufacture comprising a word game apparatus consisting of a group of cards having thereon consonant letters of the alphabet, certain consonants of certain cards being identical with those of other of said cards, a plurality of groups of disks having vowels thereon, the vowels of one group being identical with those of another group, and a group of disks having thereon diph-



thong designations, said consonants and the vowels being coöperative in groups of letters spelling words.

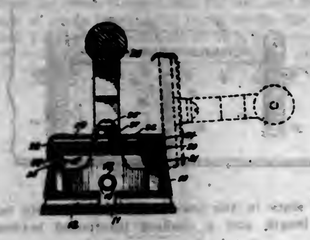
1,399,812. SHADE-ROLLER. HANS SCHUSSEN, Hardy, Iowa. Filed Sept. 27, 1919. Serial No. 326,743. 1 Claim. (Cl. 156—23.)

In combination, a shade roller provided in one side with a longitudinal groove, a fixed ferrule at one end of the roller extending permanently over said groove, a disk pivoted upon the other end of the roller and having a radially extending lug adapted to register with and form an end closure for the other end of said groove, a plurality of guides located at spaced intervals within said groove and arranged transversely thereof, a shade having one end hemmed and disposable within said groove, said hem being notched at intervals for the accommodation of said guides, and a rod slidable longitudinally of said groove and insertible through said hem and through said guides with one end of the rod engaging beneath and retained in position by said ferrule and said disk being rotatable whereby to bring the lug thereof into engagement with the other end of said rod to prevent longitudinal movement thereof.

1,399,813. SELF-HEATING SADIRON. OTTO SPARR, Philadelphia, Pa., assignor to Strauss Gas Iron Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 6, 1920. Serial No. 371,679. 8 Claims. (Cl. 68—23.)

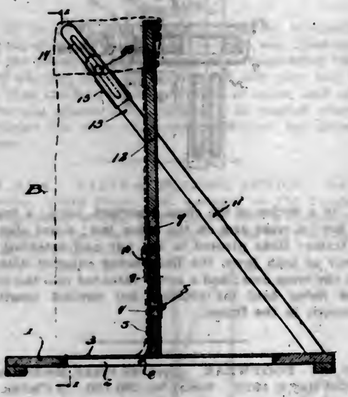
1. A self-heating end iron comprising a body, a cover movably mounted thereon, a plate carried by said cover in spaced relation to the top surface thereof and constituting

a heat-insulating device, a resilient locking member dependent upon and depending from said plate and deriving its re-



siliency at least in part therefrom and means on said body coöperating with said locking member to lock said cover in its closed position.

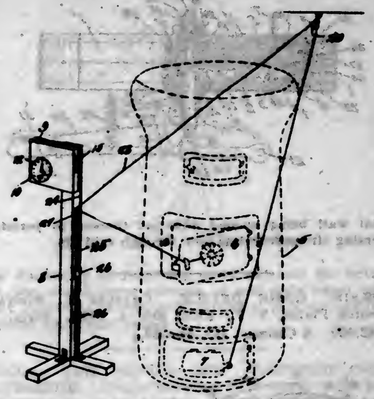
1,399,814. BAG-HOLDER. PETER SPARTS, Saukville, Wis. Filed May 25, 1920. Serial No. 384,134. 3 Claims. (Cl. 83—26.)



1. A device of the class described including the base member, a substantially upright supporting member mounted on the base member for holding a bag in upright position, said supporting member engaging one side of the bag, a brace extending from the base member to the supporting member and projecting beyond one side of the latter to form an arm, said arm being for engagement with the opposite side of the bag to hold the mouth of the same open, and an extension slidable on the arm for use in connection with bags of different sizes.

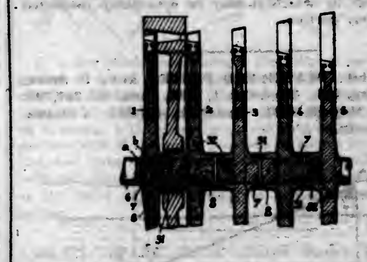
1,399,815. AUTOMATIC DRAFT CONTROL FOR HEATING APPARATUS. HARRY E. SPEARS, Baltimore, Md. Filed Feb. 14, 1921. Serial No. 444,958. 2 Claims. (Cl. 161—8.)

2. As a unitary article of merchandise, the draft-controlling attachment for furnaces, comprising a post, a pulley thereon, a normally detained lever mounted on said post and having one end extending over said pulley, time-controlled mechanism secured on said post and including means to release said lever, downwardly-pulling means under said end of the lever and connectible thereto for holding the downwardly pulling means against operation, means secured on the post for holding the downwardly pulling means in continuity with the post while permitting vertical movement of the pulling means and guiding it in such movement, and a haul-line secured to



said downwardly pulling means and attachable to a furnace-door, said haul-line being coöperative with said pulley and other guiding means for controlling said furnace-door, substantially as shown.

1,399,816. ROTOR FOR MULTISTAGE HIGH-SPEED ENGINES. PAUL STEGER, Zurich, Switzerland. Filed Mar. 23, 1920. Serial No. 368,120. 7 Claims. (Cl. 253—39.)

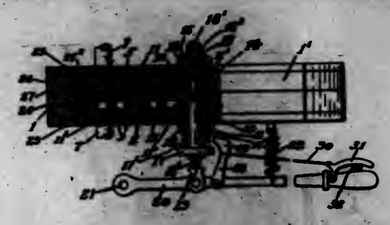


1. In a rotor of the disk-type for high-speed turbines, pumps and compressors, comprising a plurality of disk shaped rotor elements each consisting of a body of uniform strength the planes thereof being imperforate, a hollow pin provided on one side of a disk coaxially and integral therewith, a solid pin provided on the adjacent side of the adjacent disk coaxial and integral therewith, the bore of said hollow pin being slightly smaller than the outside diameter of the solid pin, the solid pin of one element inserted in the hollow pin of an adjacent element and holding the joint in position by radial compression stresses for uniting the single elements into a rotor.

1,399,817. DIES FOR MOLDING PHONOGRAPH-RECORDS AND THE LIKE. THOMAS STEVENSON, Framingham, Mass. Filed Aug. 3, 1920. Serial No. 401,045. 20 Claims. (Cl. 18—48.3.)

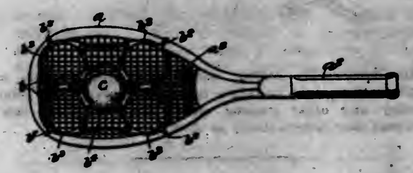
1. In a die of the class described having a plurality of

concentric channels, a radial wall passing through said channels, alternate channel walls on each side of said



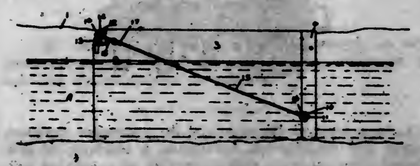
radial wall being opened adjacent thereto to permit a reversing circumferential flow through said die.

1,399,818. GAME DEVICE. CHARLES T. STEWART, Scotch Plains, N. J. Filed Feb. 4, 1921. Serial No. 442,360. 4 Claims. (Cl. 46—59.)



1. In a game device of the class described, a body portion provided with a ball cage member and forming in connection with the body portion ball receptacles adapted to receive a ball, said cage member having rotatably mounted legs by which it may be detachably connected with the body portion.

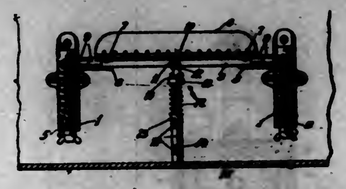
1,399,819. WATER-BED FENCE. RUBY P. STINE, Greensburg, Ind. Filed Oct. 1, 1919, Serial No. 327,707. Renewed May 13, 1921. Serial No. 469,325. 4 Claims. (Cl. 256—13.)



1. A water bed fence comprising abutments placed along the banks of a stream, metal bars secured at different elevations to said abutments, and a metal fence secured between said bars.

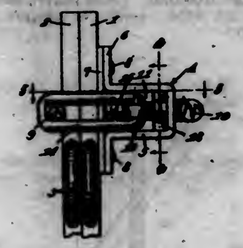
1,399,820. SEAT. JOHN H. STOOTS, Knoxville, Tenn. Filed May 26, 1921. Serial No. 472,681. 1 Claim. (Cl. 155—51.)

The combination of a seat pivotally mounted at one end upon a fixed support, a supporting leg for the free end of the seat comprising an upper member pivotally connected to the free end of the seat and depending therefrom and provided with a plurality of diametric openings in its lower portion, a lower tubular member receiving said upper member and provided with a series of longitudinal slots in its walls, a stop selectively engaging openings in the upper member and selectively



engaging slots in the lower member, the slots being of unequal length and a cushion interposed between the members.

1,399,821. FENCING-GRIP. BARTON W. STONER, Hailey, Idaho. Filed Jan. 12, 1921. Serial No. 436,855. 2 Claims. (Cl. 24—263.)



1. In a device of the class described, jaws; a frame on one jaw; a cross arm on the other jaw; a nut slidable in the frame; links pivoted to the nut and extended transversely of both jaws, the links being engaged detachably with the cross arm; and a screw threaded into the nut, the screw being held for rotation but against longitudinal movement in the frame.

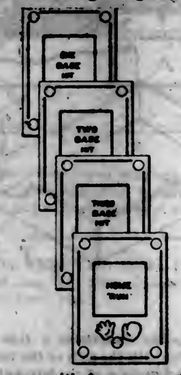
1,399,822. FOOTWEAR. CHARLES STERR, Rochester, N. Y. Filed May 6, 1919. Serial No. 295,100. 3 Claims. (Cl. 36—15.)



1. Footwear comprising an upper, a main sole formed with guides at its toe and heel portions, a detachable sole having a plate formed to engage the toe guides and having a rearward extension formed with a sleeve, a detachable heel having a top plate bent to provide guides engaging the heel guides of the main sole and having a sleeve at its forward edge, the breast of the heel below the top plate having a recess in which the sleeves of the detachable heel and the detachable sole are received, and means fitting in said sleeves for securing the heel and detachable sole to the main sole.

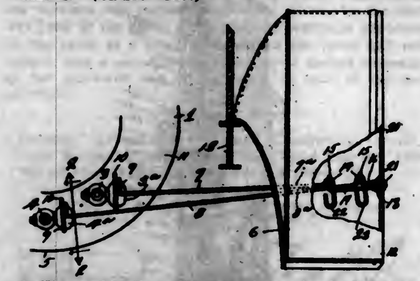
1,399,823. CARD GAME. NOTRE ROMUALD STROUT, Norwood, Ohio, assignor to The Champion Amusement Company, Cincinnati, Ohio. Filed Jan. 14, 1920. Serial No. 351,408. 1 Claim. (Cl. 46—25.)

A base ball card game consisting of a deck of fifty-two cards, said cards being divided into groups, each of the cards of which bear legends characteristic to the actual game of base-ball consisting of the terms One base hit, Two base hit, Three base hit, Home run, Strike, Ball, Hit batter, Base on error, Ground out, Fly out, and Foul out, the groups of cards bearing the terms strike the ball being of such predominant numbers as to be sufficient, when compared with the number of cards in the remaining groups, to cause their being brought into play during the



playing of the game with frequency sufficient to simulate the playing of the actual game of base-ball, and those cards bearing the remaining terms being of corresponding lesser numbers whereby they will be brought into play less frequently than the first mentioned group of cards, said cards of the various groups being adapted to be shuffled whereby to distribute the same throughout the deck for drawing therefrom.

1,399,824. VALVE-ACTUATING DEVICE. ANTON SWANSON, South Bend, Ind., assignor to The Campbell Wire Specialty Works, South Bend, Ind., a Corporation of Indiana. Filed Sept. 30, 1921. Serial No. 504,426. 3 Claims. (Cl. 137—139.)



1. The combination with an engine casing having spaced pet cocks thereon and a fender having a downwardly extending skirt, of operating rods formed from rod material and attached to said pet cocks, loops formed on the ends of the rods for receiving the thumb engaging members of the pet cocks, the ends of said loops extending in the direction of the casing and forming means for engaging the casing and limiting the movement of the thumb engaging members in one direction, the outer ends of said rods being provided with handle members, and a bracket attached to the downwardly extending skirt and in which the operating rods have a bearing.

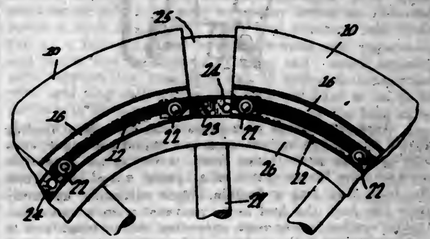
1,399,825. GARMENT. GLADYS GALE THOMPSON, St. Louis, Mo. Filed July 29, 1919. Serial No. 314,112. 4 Claims. (Cl. 2—60.)

4. A unitary outer garment for women, including waist and skirt portions, the back of the skirt and waist comprising a wide panel and the front of the skirt and waist comprising two narrower panels connected to the back panel adjacent the shoulders and extending downwardly to



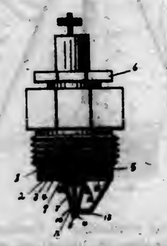
cross diagonally in front and meet adjacent the bottom rear, the lateral lower portions of said wide panel being drawn forwardly to constitute side skirt portions partially inclosing said front panels.

1,399,826. TIRE-SHIELD AND CLENCHER-IRONS THEREFOR. ALBERT TOKHEIM, Thor, Iowa. Filed Mar. 25, 1920. Serial No. 368,555. 2 Claims. (Cl. 152—17.)



2. A tire shield comprising a plurality of sections, consisting of a tire shoe having clencher portions, retaining members formed of rigid material and having curved sections and flat inner portions, the flat inner portions adapted to engage a tire rim, the curved sections adapted to cooperate with the clencher portions to secure the shoe to a tire, and links having connection with the retaining members and adapted to closely engage the flat inner portions at the inner surfaces thereof to secure the sections together.

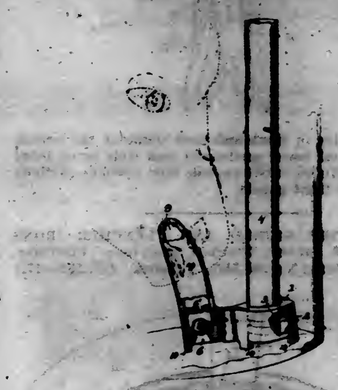
1,399,827. SPARK-PLUG. JAMES HARRY TOWNSEND, Gloversville, N. Y. Filed Sept. 2, 1919. Serial No. 321,193. 2 Claims. (Cl. 123—169.)



1. In a spark plug; a metal shell provided with a flanged support around its inner wall adjacent the lower extremity thereof; an insulator having a circular V shaped groove;

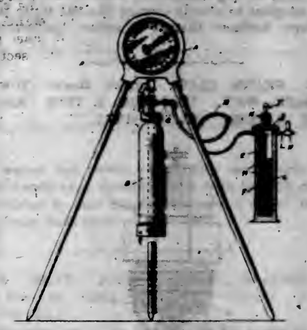
and a supporting shoulder thereon forming an air-tight chamber and a gasket therein; an electrode extending centrally through said receptacle and cushion and all said grooves; a funnel shaped agitator mounted on said electrode with means to agitate and engage with said groove; a nut fixed on the end of said electrode forming a support for said agitator that slidably engages with said electrode and said nut; said nut co-acting with the ground electrode forms the spark gap.

1,399,828. ARTIFICIAL-FEEDING DEVICE. ARTHUR TRAYNOR, Koshkonong, Wis. Filed July 5, 1921. Serial No. 482,526. 2 Claims. (Cl. 119—71.)



1. As a new article of manufacture, an animal feeding device adapted to be immersed in a liquid container, comprising a one-piece rubber head, including an expansible base ring for the reception of a handle, a heel offset from the base ring and a flexible nipple extending upwardly from the heel, the heel being provided with a valve controlled suction intake port, extending therethrough and in communication with the base of the nipple.

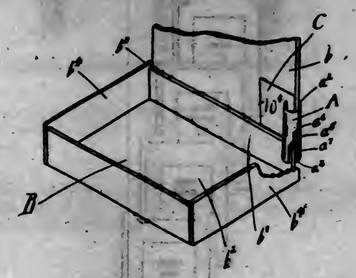
1,399,829. METHOD OF PRODUCING POISONOUS GASES. JAMES W. VAN METER, San Francisco, Calif. Filed June 15, 1920. Serial No. 389,569. 5 Claims. (Cl. 167—6.)



1. The method of producing a combination or mixture of gases which consists in liberating cyanogen from its salts by the reaction of chlorin on said salts.

5. The method of producing a mixture of insecticidal gases which consists in causing an excess of chlorin to act on an alkaline cyanid whereby the heat generated by such action causes sublimation of the cyanogen to be produced and mix with said excess of chlorin.

1,399,830. SUPPORT FOR BOX-LIDS. JOHN M. WARNELL, Greenfield, Ohio. Filed June 17, 1921. Serial No. 478,429. 2 Claims. (Cl. 217—61.)



1. A box lid retainer comprising a tube having a slot substantially parallel with the axis of the tube and through which a box lid and a portion of the box wall mounting the lid may extend, and having a second slot through which the said box wall only may extend.

1,399,831. MULTIPLE-STAGE ROTARY DRILL. FRANK L. O. WADSWORTH, Pittsburgh, Pa., assignor to Hughes Tool Company, Houston, Tex., a Corporation of Texas. Filed Oct. 27, 1919. Serial No. 333,506. 17 Claims. (Cl. 255—71.)

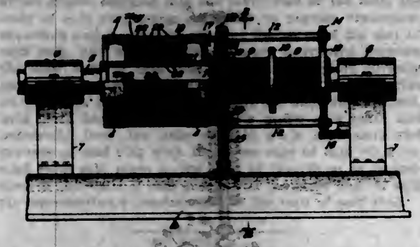


1. A multiple stage rotary earth boring drill comprising a two part head, one part of which is slidable resiliently within the other, roller cutters on the lower part and opposite disk cutters on the upper part arranged to drill the hole outside the bore cut by the preceding cutters.

1,399,832. DYNAMO-ELECTRIC MACHINE. HENRY H. WARE, Chicago, Ill. Filed Aug. 25, 1917. Serial No. 187,782. 5 Claims. (Cl. 171—252.)

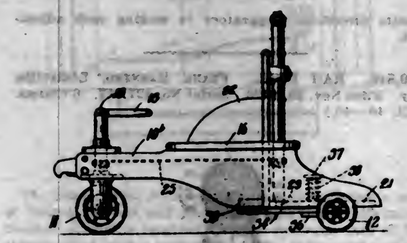
5. In a dynamo electric machine, the combination with a laminated armature core; of windings on said core; a commutator; lugs connecting said commutator and

said windings; those being ventilating passages in said armature core and other ventilating passages adjacent



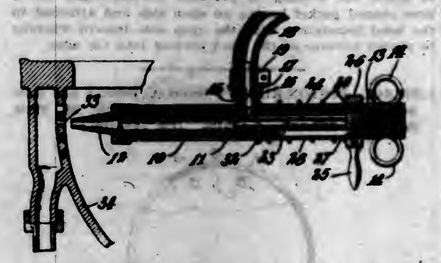
said commutator lugs; and separate means for adjusting the area of communication between said core ventilating passages and said commutator ventilating passages.

1,399,833. TOY VEHICLE. AGNES C. WIEBE, Brooklyn, N. Y. Filed Jan. 28, 1920. Serial No. 354,580. 11 Claims. (Cl. 206—165.)



1. A two passenger toy vehicle comprising a longitudinally extending beam, a steering wheel journaled at the forward end thereof, supporting wheels at the rearward end of the beam, a seat for one passenger supported by the beam at a point intermediate the front and rear wheels, and a standing platform for a second passenger at the rearward end of the beam in rear of the seat aforesaid.

1,399,834. APERTURE-CLEANING SYRINGE. STANISLAW WILINSKI, Bay City, Mich. Filed Dec. 18, 1920. Serial No. 431,581. 4 Claims. (Cl. 299—150.)



1. A device of the class described comprising a cylinder, having an intake opening between its ends, a discharge nozzle on said cylinder, a chambered plunger within said cylinder having a slot in its side wall and having its rear end closed, and means whereby said plunger may be advanced with the said slot in or out of registry with the said opening.

1,399,835. FOLDING CHAIR. HENRY S. WEAVER, Kenosha, Wis. Filed Dec. 30, 1920. Serial No. 434,665. 2 Claims. (Cl. 155—144.)



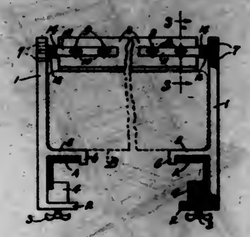
1. In a folding chair, the combination with two long rails; of a cross rail uniting upper portions of the long rails; a chair seat; a chair back with the lower end of which the rear end of the chair seat is in swinging connection, this chair back being itself in swinging connection, between its top and bottom sides, with upper portions of said long rails to occupy either an unfolded position with its top side below and adjacent said cross rail or a folded position with its bottom side uppermost and below and adjacent said cross rail; short crossing rails between the long rails and in swinging connection with said long rails below said seat and back so as to be foldable to lie substantially in the plane of the long rails, the forward portion of said seat being separately supportable upon the upper ends of the short rails, when the chair is unfolded; a link structure in swinging connection with the upper ends of the short rails and the lower portion of the chair back and in holding engagement with the bottom of the seat when the chair is folded; and a strut between the side rails that is in holding engagement with said link structure when the chair is unfolded to limit the angular displacement between the long and short rails and to define the unfolded position of the back and which strut engages the rear sides of the upper portions of short rails when the chair is folded.

1,399,836. PNEUMATIC HEEL. GEORGE J. WINTER, Buffalo, N. Y., assignor of one-half to Harry G. Phillips, Buffalo, N. Y. Filed Feb. 10, 1921. Serial No. 446,287. 4 Claims. (Cl. 36—36.)



3. A heel comprising two removable sections, a cavity formed in the center of one section, channels surrounding the cavity and communicating therewith and a boss formed in the other section and adapted to rest in the cavity.

1,399,827. FOOTREST. Ernst L. Wood, Galeton, Pa. Filed Nov. 11, 1920. Serial No. 423,872. 1 Claim. (Cl. 5—41.)



The combination with standards, inwardly projecting arms thereon for engaging the side rails of a bed, feet upon the standards, and means upon the feet for adjustably clamping the side rails, of a foot rest angular in cross section and having a mattress engaging surface and an upstanding foot engaging surface, connecting strips adjustably attached to the ends of the foot rest and projecting therebeyond, yokes extending from said strips, and yoke engaging studs adjustably connected to the standards.

1,399,838. METHOD OF AND APPARATUS FOR RENDERING TIMBER NOT OTHERWISE SUITABLE, USABLE FOR CONTAINERS FOR COMESTIBLE SUBSTANCES SUCH AS BUTTER. Benjamin Abbey, Warrnambool, Victoria, Australia, assignor to Western District Co-Operative Produce and Insurance Company Limited, Melbourne, Victoria, Australia. Filed June 1, 1920. Serial No. 385,531. 10 Claims. (Cl. 91—51.)

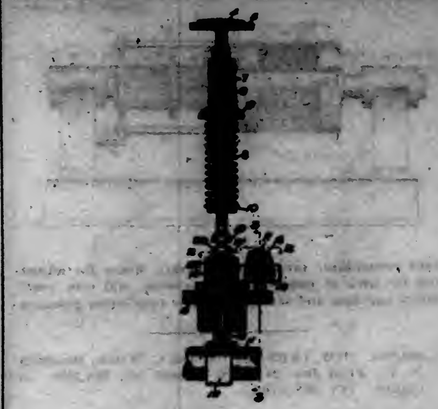


1. Method of treating timber for the purpose specified consisting in feeding the timber at a suitable rate along the surface of a heated table while maintaining the timber in close contact with the table surface and applying lacquer to the heated surface of the timber.

3. An apparatus for treating timber comprising a heated chamber having a table top, an open vessel in said chamber, a transfer roller in the vessel, means for feeding timber along the table, and means for actuating the roller and feeding means.

1,399,839. TAPPET-VALVE MECHANISM. Frank G. Alborn, Milford, Conn., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn., a Corporation of Delaware. Filed Aug. 16, 1918. Serial No. 250,143. 10 Claims. (Cl. 123—90.)

1. In a tappet valve-actuating mechanism of the class in which the tappet rotates and reciprocates, the combination of a tappet having a screw and nut for effecting axial adjustment and means cooperating with a fixed part of the mechanism to lock said tappet against rotation in



opposite directions preparatory to making such adjustment.

1,399,840. RAG DOLL. Frank Barnard, Louisville, Ky. Filed Nov. 29, 1920. Serial No. 427,017. 6 Claims. (Cl. 46—40.)



1. In a rag doll, a head having a foundation of stuffed fabric, said fabric being slit in the position of the nose to allow the stuffing to protrude therethrough, and a nose shaped pocket having an open side and attached to the head foundation with the open side inward whereby to permit passage of the head stuffing into the nose.

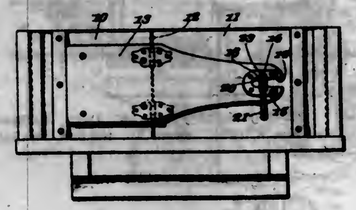
1,399,841. PISTON-RING. Joseph A. Bemels and Raymond T. Crisz, Detroit, Mich. Filed Apr. 28, 1919. Serial No. 293,282. 1 Claim. (Cl. 74—109.)



A piston ring having split ends divided on a bias, and longitudinally slotted, said ring at its split ends having

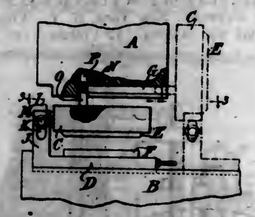
the inner walls grooved with one end of each groove merging at the outer wall of the ring, and the opposite end of the groove merging into the inner wall of the ring, the ends of said ring being cut away to provide transverse shoulders and supporting arms at the sides of the slot of said ring, and a connecting member interposed between the split ends of said ring and having a plate forming part of the outer wall of the ring and adapted to ride on the arms of said ring and abut the shoulders thereof, said plate having a rib extending under said plate and outwardly from the ends of said plate into slots and grooves of said ring with the outer edge of said rib arcuated from said plate to the ends of the rib so as to conform to the walls of said groove and the inner edge of said rib representing a continuation of the wall of said ring.

1,399,842. END-GATE LOCK. Mathias F. Bohr, Stickney, S. D. Filed Apr. 15, 1921. Serial No. 461,592. 1 Claim. (Cl. 296—55.)



The combination with a wagon end gate having a pair of hinged sections and one of them having a bifurcated member extending longitudinally on the outer face of the other section, and a wear plate on the bifurcated member adjacent the bifurcation, of a bolt rotatably supported in the said other section and having a transverse channeled head for movement through the bifurcation, and a spring pressed handle mounted pivotally in the head and having a nose for engagement in an opening of said plate when the head is disposed transversely of the bifurcation.

1,399,843. PRESS. William C. Bowden, Middle Village, Long Island, N. Y. Filed July 20, 1920. Serial No. 397,577. 5 Claims. (Cl. 18—16.)



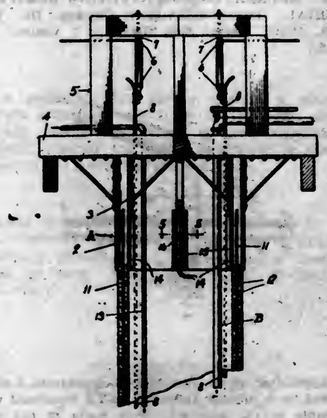
1. In a press, the combination of relatively movable upper and lower press members, upper and lower die members, the die members movable outwardly of the press members when the latter are separated, and the upper die member mounted to swing upwardly, and a connection from the lower to the upper die member adapted upon the moving of the lower member outwardly to move outwardly and swing upwardly the upper member, and the upper die and press members reciprocally constructed to permit the descent of the press member when the die member is restored to normal pressing position.

1,399,844. [WITHDRAWN.]

1,399,845. TREATMENT OF LIQUIDS CONTAINING SULFATE OF LIME. Henrik Janson Buls, Bergen, Norway, assignor to A/S De Norske Saltverker, Bergen, Norway. Filed July 24, 1919. Serial No. 313,058. 8 Claims. (Cl. 210—28.)

1. In the evaporation of liquids containing calcium compounds, the method of preventing the formation of incrustations containing calcium sulfate on the evaporating surfaces, which comprises causing crystals of calcium sulfate to be suspended in the liquid being evaporated and substantially saturated as to calcium sulfate in sufficient quantity to take up the calcium sulfate separated from the solution during evaporation.

1,399,846. CASING AND PILING CONSTRUCTION. Patrick F. Burns, Baltimore, Md. Filed Sept. 10, 1920. Serial No. 409,461. 4 Claims. (Cl. 25—181.)

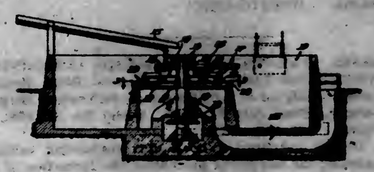


1. A device of the class described comprising a platform, a mold supported by said platform, a cutting member, and controlling cables for regulating the movement of the cutting member and cast from the mold.

1,399,847. METHOD OF TREATING PEAT-BOGS TO EXTRACT THE WATER FROM THE PEAT IN THE BOGS. William Watson Camp, Stratford, Ontario, Canada. Filed Mar. 8, 1920. Serial No. 364,273. 5 Claims. (Cl. 44—27.)

1. The method of treating peat bogs to extract the water from the peat therein consisting in excavating the bog uninterrupted step by step the desired depth to form a cavity, then macerating the excavated peat and then feeding such peat again into such cavity, which is continually formed by the ejection of the previously excavated peat.

1,399,848. SLAG-DISINTEGRATOR. Andrew G. Carnegie, Chicago, Ill. Filed May 13, 1921. Serial No. 467,940. 6 Claims. (Cl. 83—92.)



1. A slag disintegrator, in combination a vertically supported shaft, a plate mounted on the upper end of said shaft, a series of disks on said shaft below said plate of increasing diameter downwardly, said disks having marginal flanges, and being provided with apertures near said flanges, fan blades between adjacent disks and movable therewith, a conduit leading from the atmosphere to said fans, means for delivering slag to said plate, and means for rotating said shaft.

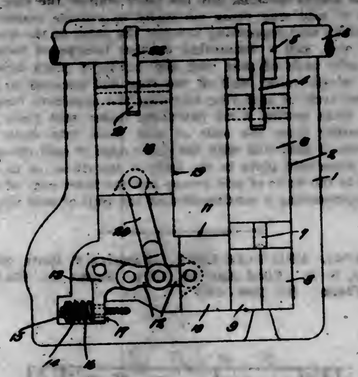
1,399,849. APPARATUS FOR APPLYING SEMIFLUID MATERIAL. David S. Chapin, Chicago, Ill. Filed Jan. 9, 1919. Serial No. 270,254. 1 Claim. (Cl. 18—3.5.)



In an applicator of the type described wherein a nozzle is traversed by a tubular guideway and a tensioned valve plug slidable in the guideway with ports in the valve plug and guideway normally out of registration and the port in the guideway being in line with the nozzle, said valve plug being slotted at its outer end, a laterally directed shoulder carried by said valve plug outwardly of the tubular guideway, and a pivoted lever working in said slot adapted to move the valve plug to bring the ports in the guideway and valve plug into registry, with the shoulder of the plug engaging the upper end of the guideway to limit movement of the plug.

1,399,850. HEADER FOR BOLT-MACHINES. William L. Clouse, Tiffin, Ohio, assignor to The National Machinery Co., Tiffin, Ohio. Filed Oct. 8, 1918. Serial No. 257,347. 4 Claims. (Cl. 10—22.)

1. In a bolt heading and forging machine a die slide, a bell crank, a stop, a pin slidably engaged by one arm of the bell crank, a spring upon the pin and yieldingly holding said arm against the stop, a toggle connection between the other arm of the bell crank and the slide, and means for actuating the toggle to move the slide, said toggle-and bell crank constituting means for throwing away from the stop and against the spring when



the movable die is held against movement under the action of the toggle.

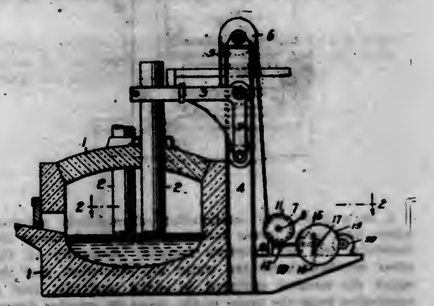
1,399,851. PIPE-SHIELD. John N. Dart, Richmond, Va. Filed Apr. 8, 1921. Serial No. 459,528. 8 Claims. (Cl. 131—12.)



1. A pipe shield adapted to cover substantially the entire bowl of the pipe, and including an inclined hood terminating at a draft opening spaced throughout from the edges of the shield and bowl.

8. A smoking pipe having a shield pivotally attached to the bowl of the pipe, and adapted to cover the mouth thereof, said shield consisting of a disk-like member having a transverse slit or incision, the material of the disk-like member in rear of the said slit or incision being upset to provide a raised hood terminating at a substantially vertical draft-opening facing in the direction of the stem of the pipe.

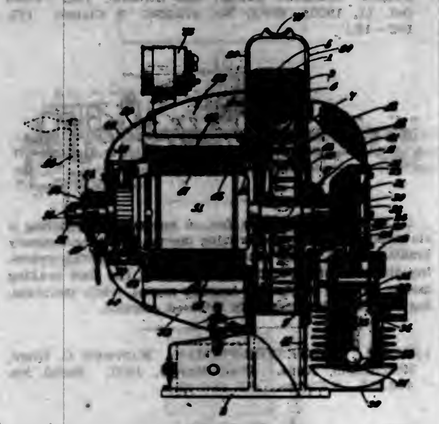
1,399,852. REGULATOR FOR FURNACE-ELECTRODES. Waldemar Dyrssen, New York, N. Y. Filed Dec. 12, 1919. Serial No. 344,324. 12 Claims. (Cl. 204—64.)



1. An electric furnace having a plurality of electrodes and automatic means for intermittently moving the

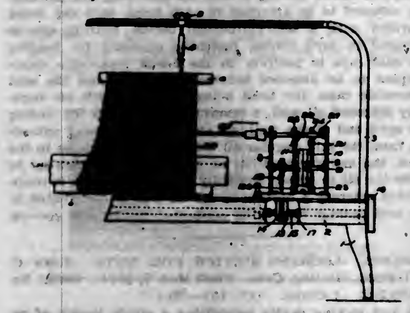
electrodes successively to vary the resistance of the arcs at different times so that no two electrodes are moved simultaneously.

1,399,853. PORTABLE ELECTRIC LIGHT AND POWER PLANT. Charles H. Ferguson, Valhalla, N. Y., assignor to Home Electric Lighting Company, East Orange, N. J., a Corporation of New Jersey. Filed Dec. 27, 1919. Serial No. 347,776. 7 Claims. (Cl. 290—1.)



1. In a device of the character described, the combination with the supporting housing, provided with parallel walls having coaxial apertures therein, of a bearing plate engaging one of said apertures, and provided with a crank-shaft bearing, said plate being provided with means for attaching an engine cylinder thereto and supporting it in proper relation to the crank shaft, a casing fitting the other of said coaxial apertures, generator field magnets carried by said casing, a crank shaft bearing carried by said casing, a crank shaft engaging said bearings, an armature carried by said shaft within said field magnets, an engine cylinder and piston carried by said bearing plate, and operative connections between said piston and said crank shaft.

1,399,854. APPARATUS FOR SEPARATING HEDDLES OR THE LIKE. Chester E. Field, Boston, Mass., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill., a Corporation of Illinois. Filed Mar. 7, 1918. Serial No. 220,909. 48 Claims. (Cl. 139—94.)



1. In an apparatus of the kind described, means to pull back the harness cords which are to be threaded,

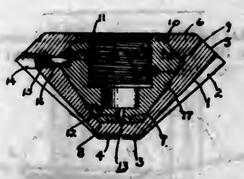
and means to pick off the cords one by one alternately from opposite sides of said held-back harness, said pick-off means having a part for holding the eyes of said successive cords in position to receive the warp.

1,399,855. SWIMMING DOLL. Albert L. Fiedler, Batavia, Ill. Filed Oct. 28, 1920. Serial No. 420,269. 7 Claims. (Cl. 46—40.)



1. A swimming doll having a body, a plurality of members adjustable relatively to the body, and automatically movable weighting material associated with the body, whereby the center of gravity is changed by changes in the position of the doll figure.

1,399,856. PROCESS OF MAKING BEARINGS. Harold W. Fletcher, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a Corporation of Texas. Filed Sept. 18, 1920. Serial No. 410,038. 6 Claims. (Cl. 76—108.)

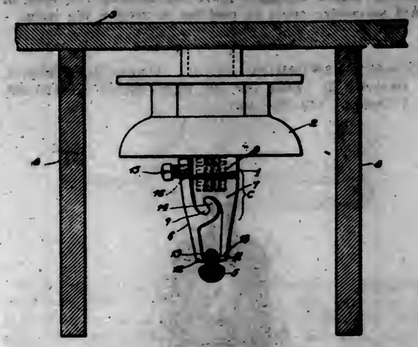


1. A process of forming a bearing within a rotary member comprising placing a tapered mandrel centrally within the bearing space, forcing molten metal into said space to completely fill the same, withdrawing said mandrel and machining an attaching recess within said bearing.

1,399,857. TROLLEY-CLAMP. Arthur L. Ferrell, Ensley, Ala. Filed Sept. 22, 1921. Serial No. 502,428. 3 Claims. (Cl. 191—48.)

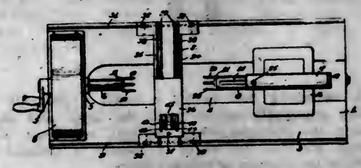
1. A conductor holder comprising a pair of plates each of said plates having longitudinally extending claws in telescopic engagement with one another arranged to form a fulcrum and also to prevent relative vertical

movement of said plates in either their operative or partially assembled condition, and means extending laterally



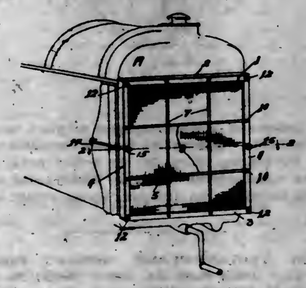
through one of said plates and bearing on the other plate to effect a clamping movement of one of said plates.

1,399,858. VEGETABLE-PARING MACHINE. CLAUDE E. GARRIO, Madison, Wis. Filed Aug. 10, 1920. Serial No. 402,522. 3 Claims. (Cl. 146—8.)



3. The combination with a bed plate, and a rotary vegetable holder, means to actuate the vegetable holder, rails along the longitudinal edges of the bed plate, a carriage movable along the rails, transverse rails carried by the carriage, a second carriage movable transversely across the first mentioned carriage, a cutter mounted on the second carriage, and spring means associated with the second carriage to normally hold the cutter into engagement with the vegetable.

1,399,859. RADIATOR-PROTECTOR. JOSEPH P. GARVER, Charleston, Ill. Filed May 5, 1920. Serial No. 379,132. 3 Claims. (Cl. 180—68.)



1. A guard for tractor radiators provided with forwardly and rearwardly extending projections, said guard comprising a frame formed of angle bars, a perforate material covering said frame, securing means for said perforate material engaging the margin thereof, tie-rods spanning said frame and lying adjacent said perforate material, means for uniting the tie-rods to said frame, means secured to said frame for engaging the rearwardly extending projections of the radiator, said frame being adapted to engage the forwardly extending projections of the radiator.

1,399,860. AIR-BRAKE AND STARTER FOR AUTOMOBILES. HERBERT GREEN, San Antonio, Tex. Filed Oct. 11, 1920. Serial No. 415,993. 3 Claims. (Cl. 192—13.)



1. An air brake system for an automobile including a clutching means, a foot braking means, and an emergency braking means, and a control valve for successively releasing the clutching means, and applying the foot braking means and the emergency braking means, while maintaining the clutching means in released position.

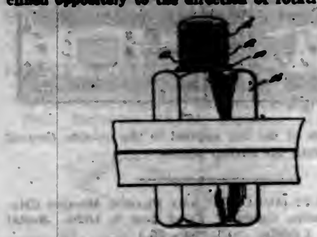
1,399,861. HARVESTER-PITMAN. MATTHEW C. HOFF, Hutchinson, Kans. Filed May 4, 1921. Serial No. 466,657. 2 Claims. (Cl. 74—17.)



1. A pitman of the character described comprising an elongated shank having a head at each end, a removable cap adapted to be attached to each head, each cap being provided with a semi-cylindrical recess, bearing sleeves mounted in each recess, fastening elements for holding the said caps in position on the heads, removable shims adapted to be disposed between the heads and the said removable caps, the head being provided with an angularly disposed oil well, a removable spring cap for closing the open end of the well, an angular passageway extending from the said angular oil well to the said recess in the head, the angular position of the well being such as to cause the oil to splash upwardly when the pitman is reciprocated whereby a portion of the oil will be distributed in the said passage-way to be conducted to the said sleeves.

1,399,862. LOCKING DEVICE FOR NUTS. JOHN C. HUFFER, Sterling, Colo. Filed Mar. 7, 1921. Serial No. 450,202. 1 Claim. (Cl. 151—30.)

A nut locking device comprising a single length of resilient material bent to form a spring coil having the convolutions thereof wound in the same direction as the threads of the bolt with which the device is adapted to coact, the inner faces of the convolutions of the coil being provided with bolt engaging teeth, said teeth being inclined oppositely to the direction of rotation necessary to



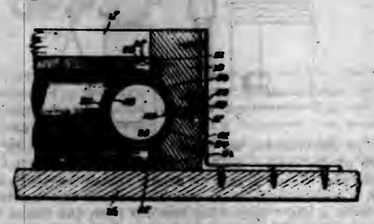
apply the coil to the bolt, the end portions of the material being formed into loops, the extremities of such end portions being sharpened and adapted to extend into the threads of the bolt.

1,399,863. REAMER. HOWARD R. HUGHES, Houston, Tex. Filed Apr. 23, 1918. Serial No. 230,258. 2 Claims. (Cl. 255—78.)



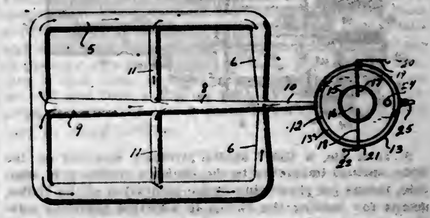
1. An enlarging reamer for maintaining the gage of the hole comprising a head, threaded at one end for attachment to a drill stem and threaded at the other end for attachment to the drill, and disk-shaped reaming cutters housed in slots in the sides of said head and inclined outwardly and downwardly.

1,399,864. GAME. JOSEPH JOHNSON, Menlo Park, Calif. Filed May 1, 1920. Serial No. 378,206. 2 Claims. (Cl. 46—11.)



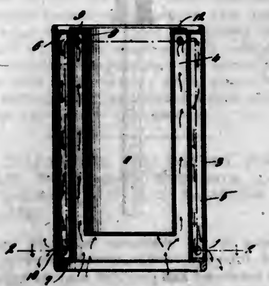
1. A game board having a resilient playing surface and upright rails surrounding the playing surface and provided with inner grooved faces, inflatable tubes disposed in the grooves along the central portions thereof, and castings covering the exposed portions of the said tubes and having side wings secured within the upper and lower portions of the grooves above and below the tubes, said rails having transverse openings and outer recesses from which the openings extend into communicating relation with their grooves, and said inflatable tubes having inflating valves projecting outwardly through the openings and terminating at their outer ends in the said recesses.

1,399,865. INCUBATOR-HEATING SYSTEM. JOHN D. JULIUS, Heltonville, Ind. Filed Aug. 7, 1920. Serial No. 402,010. 1 Claim. (Cl. 237—15.)



A heater for incubators comprising a conduit member having tapered end portions, said member being formed into a frame adapted to engage the inner walls of an incubator, an inlet conduit extending transversely of the tapered end portions of the frame, one end portion of said inlet conduit being larger in diameter than the opposite end portion, said large end portion being connected to one end portion of the frame, branch conduits intersecting the intermediate portion of each side of the frame and the inlet conduit, whereby water discharged into the frame through the large end portion of the inlet conduit is caused to circulate by the discharge of water from the branch conduits into the water disposed in the side portions of the frame, a tapered outlet member intersecting the tapered end portions of the frame, and means supplying heated water to the heater.

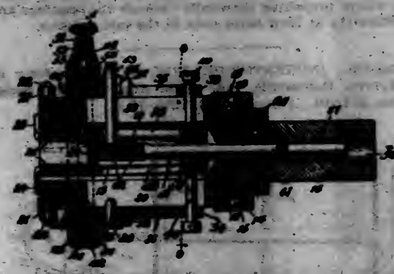
1,399,866. COOKING UTENSIL. ROBERT B. KIRK and JOSEPH B. YOUNG, Olden, Tex. Filed Jan. 26, 1921. Serial No. 439,996. 1 Claim. (Cl. 126—215.)



A cooking utensil including a drum comprising inner and outer metal sheets, said outer sheet being cylindrical and having its terminals turned inwardly at right angles to provide flanges, the inner sheet being also cylindrical, arranged within the outer sheet, and engaged with said flanges, said inner sheet having its upper end bent inwardly at right angles to provide a utensil supporting flange, said inner sheet having a series of openings near its upper end and said outer sheet having series of open-

legs near the lower end whereby the heel is permitted to deviate upwardly through the inner sheet and downwardly between both sheets substantially as described.

1,399,867. AUTOMATIC DIE. HORACE FALK NEUMEIER, Macungie, Pa. Filed May 29, 1920. Serial No. 385,302. 9 Claims. (Cl. 10—86.)



9. In a die, a body, blades pivotally mounted on the body, springs imparting to the blades a tendency to separate, means for preventing undue separation of the blades, means for holding the blades in adjusted positions relative to each other, means operable by engagement with the work for releasing the holding means and permitting the blades to spread to their fullest extent, said last-named means comprising an adjusting bar, a head at one end of the bar for engagement with the work, a cut-away connectable to the bar in a plurality of positions, and clamping means for securing the bar and the adjustable blade holding means together.

1,399,868. FILLING AND TESTING DEVICE. ADOLPH J. NUSS and FREDRICK A. PARKER, Williamsport, Pa. Filed Mar. 23, 1921. Serial No. 454,066. 4 Claims. (Cl. 226—36.)



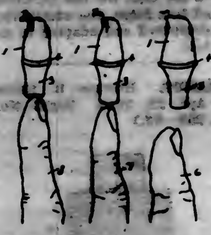
1. A device of the character described, comprising a tube and a funnel, to communicate therewith, said tube open at its lower end and provided near its upper end with a lateral opening, and means carried by the funnel and depressible to close said lateral opening near the upper end of the tube.

1,399,869. HARNESS-TUG. NICK PATTS, San Antonio, Tex. Filed Nov. 27, 1920. Serial No. 426,761. 4 Claims. (Cl. 54—82.)

3. A harness tug, comprising longitudinally arranged chains embedded in plastic material, anchor plates at the ends of the tug made of sheet metal also embedded in and covered by the plastic material and having holes to which the ends of said chains are connected, and fastening devices at the ends of the tug applied to the outside thereof and connected with the anchor plates.

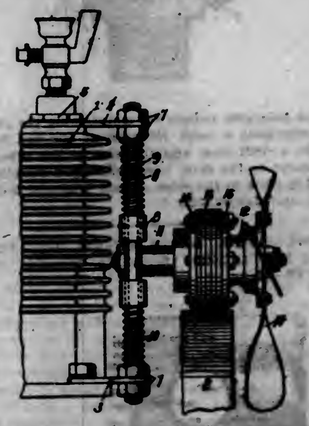


1,399,870. FRUIT-HULLER. AMY PEARCE, Mission City, British Columbia, Canada. Filed Aug. 6, 1920. Serial No. 401,726. 1 Claim. (Cl. 294—25.)



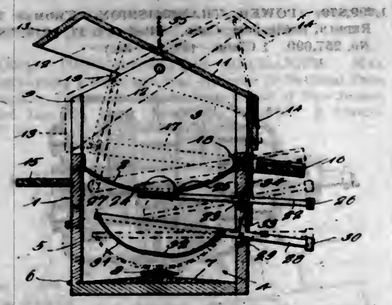
A fruit huller comprising, a metallic thimble-like protector for the finger tip adapted to entirely inclose the same and conforming to the shape thereof, said protector being slightly raised on one side at its closed end to form an integral false nail, and an elastic tube secured to the open end of said protector adapted to grip tightly the finger when slipped thereover.

1,399,871. ENGINE-COOLING MEANS. EDWARD I. PEARSON, Toledo, Ohio. Filed Jan. 17, 1921. Serial No. 437,718. 3 Claims. (Cl. 122—171.)



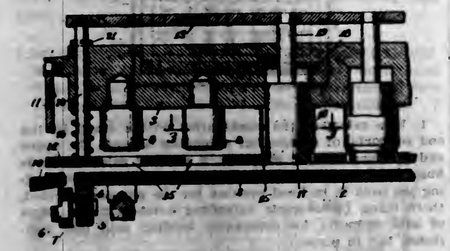
2. In combination, an engine casing, a fly-wheel in advance of the casing, guide means attached rigidly to the casing and having a pair of fixedly spaced vertical guide rods, a cross-head frame guided for vertical movements by the rods, a shaft projecting forward from the frame and movable therewith, a driven wheel and a fan fixedly carried by the shaft with the wheel positioned over the fly-wheel, a coiled spring mounted on each guide rod above the cross-head frame to act on the frame to cause the driven wheel to bear downward against the fly-wheel, and a coiled spring mounted on each rod below the frame and acting upward against the frame to partially counteract the pressure of the first spring means against the frame.

1,399,872. POULTRY-NEST. CARL EMIL POIGNANT, Matsqui, British Columbia, Canada, assignor of one-half to Carl Gust Poignant, Matsqui, Canada. Filed Oct. 20, 1919. Serial No. 332,074. 8 Claims. (Cl. 119—47.)



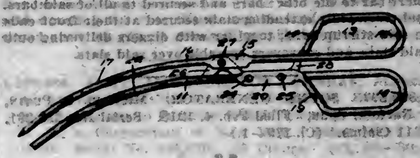
6. A device of the class described comprising a housing provided with an entrance and an exit, a nest removably supported in said housing, doors for said entrance and said exit, means independent of said nest for holding the entrance door open and the exit door closed and operable by an egg laid in said nest to reverse the position of said doors, and means independent of said nest and positioned externally of said housing and actuated by the weight of the hen after leaving said housing for restoring said doors to the initial position.

1,399,873. APPARATUS FOR FORMING CAKES, &c. HOWARD L. POWELL, New York, N. Y., assignor to National Biscuit Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 28, 1919. Serial No. 341,014. 3 Claims. (Cl. 107—26.)



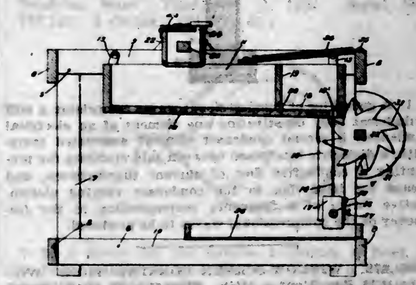
3. In apparatus for forming cakes and the like, the combination of a platen, a plurality of design stamps carried thereby, in a staggered row, and a plurality of peripheral cutters carried by said platen in a staggered row, parallel to and spaced apart from said stamps, a clear plate below said platen, having openings through which said stamps and cutters are adapted to pass, a back plate above the platen, means for rigidly securing the back plate and clear plate together, strippers mounted inside said cutters, secured to said back plate and movable relatively to said platen, and spring means between said platen and clear plate.

1,399,874. HAIR-WAVER. HULDAH B. PRAHL, Detroit, Mich. Filed Feb. 2, 1918. Serial No. 215,742. Renewed May 23, 1921. Serial No. 473,817. 1 Claim. (Cl. 132—32.)



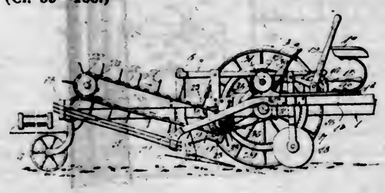
A hair waver comprising two handles, two sets of tines attached respectively to said handles, the tines of the respective sets in alternation being spaced transversely from each other, all of the tines having transverse undulations and being curved to conform substantially to the contour of the head of a person, and means for pivoting said handles to each other in such manner that the tines of one set will pass from a position above the other set to a position below the same when said handles are operated from open to closed position.

1,399,875. STRINGER. JOSEPH F. PRITCHETT, Columbus, Ga., assignor, by direct and mesne assignments, of one-fourth to John Allen Johnson, Columbus, Ga., one-fourth to Q. T. Foster and one-fourth to F. A. Patrick, Columbus, Ga. Filed Dec. 31, 1920. Serial No. 434,317. 10 Claims. (Cl. 29—84.)



1. A device for stringing travelers including a frame, a shaking table disposed above the frame, said shaking table having openings formed in the bottom wall thereof, traveler rods supported by the table and having their upper ends disposed within the openings, said rods adapted to receive travelers from the shaking table, means for delivering the travelers to the shaking table, means for reciprocating the shaking table, and means within the table for directing the travelers to the openings.

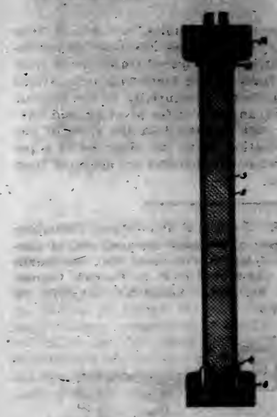
1,399,876. HARVESTER AND LOADER FOR BEETS, POTATOES, &c. WILLIAM Z. PULLIAM, Los Angles, Calif. Filed May 3, 1920. Serial No. 378,509. 2 Claims. (Cl. 55—138.)



1. A harvesting machine comprising a frame including a pair of spaced longitudinal bars and a relatively short

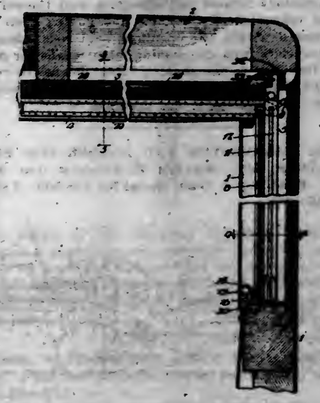
longitudinal bar disposed between them and terminating between the ends of the frame, the rear end of said relatively short bar declining rearwardly, a pair of U-shaped stirrup bars extending from said rear end of said relatively short bar to the other bars and secured to all of said bars, and rearwardly extending slats secured at their front ends to said stirrup bars; together with diggers delivering onto said slats, and conveyers operable over said slats.

1,399,877. SOUND-GENERATOR. MICHAEL I. POTIN, Norfolk, Conn. Filed Feb. 4, 1918. Serial No. 215,291. 11 Claims. (Cl. 179—1.)



1. A generator of compressional waves comprising a stiff cylindrical body constituting one element of an electrical condenser, a second condenser element associated therewith, a dielectric interposed between said elements for preventing a conductive flow of current therebetween, and means for imparting to the condenser varying electromotive forces of a frequency corresponding to the frequency of the compressional waves to be produced.

1,399,878. WINDOW-SCREEN CONSTRUCTION. WILLIAM H. RAY, Monroe, Mich. Filed Feb. 28, 1919. Serial No. 279,813. 16 Claims. (Cl. 296—45.)



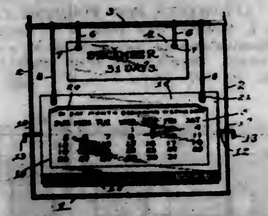
1. In a convertible summer and winter top for an automobile, an upright frame, a top above said frame, inclosing means including a screen and comprising a movable sash which is higher than the screen for said frame, and horizontally disposed guides extending over the upper end of the screen and disposed in position in said top to receive the sash, with the upper end of the sash in the plane of said guides, whereby the sash may be swung outward at its lower end and then raised and moved horizontally over the screen and into an overhead storage position under the top, the sash being manually releasable and operable in this manner entirely from within the automobile.

1,399,879. POWER TRANSMISSION. THOMAS PAUL REDDIN, Bridgeport, Conn. Filed Oct. 11, 1918. Serial No. 257,690. 1 Claim. (Cl. 74—34.)



A power transmission having alined driving and driven shafts and jack shafts parallel thereto, planet pinions carried by said driven shaft, and geared to said driving shaft, gears carried by said jack shafts, and a compound sun and orbit gear meshing with said planet pinions and with the gears on said jack shafts, said driving shaft being alternately geared to said jack shafts.

1,399,880. CALENDAR. HUGH T. REED, Chicago, Ill. Filed Apr. 18, 1921. Serial No. 462,200. 6 Claims. (Cl. 40—119.)



1. In a calendar, the combination with a stand having end supports, of a cross bar extending between the upper end portions of said supports, a pack of calendar cards hung from said cross bar, another cross bar for supporting the pack in inclined position for the purpose specified, there being transversely extending notches in the edges of said supports for detachably holding said last mentioned bar in place.

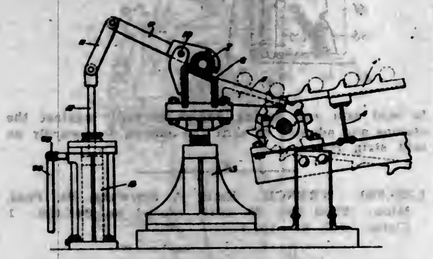
1,399,881. APPARATUS OR MEANS FOR AUTOMATICALLY STOPPING GRAMOPHONES AND LIKE MACHINES. JOHN INSHAW RODWAY, Retford, England. Filed Mar. 18, 1920. Serial No. 366,910. 2 Claims. (Cl. 192—116.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. An automatic brake device of the kind set forth for gramophones and the like, characterised in that a freely pivoted lever operated by the sound arm carries a brake pad or shoe adapted to be brought into contact with the periphery of the turntable by the movement of the said arm, the arrangement being such that directly the said pad or shoe contacts with the turntable a toggle action is set up by the rotation of the latter, whereby the re-



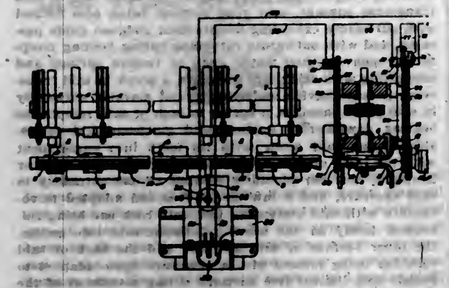
tation of said turntable augments the brake pressure independently of the motion of the sound arm.

1,399,882. TROUGH-DUMPING MECHANISM. MAX ROSENBERG, Pittsburgh, Pa., assignor to National Tube Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Jan. 13, 1921. Serial No. 436,953. 5 Claims. (Cl. 80—42.)



5. The combination with the dumping trough of a pipe cooling table having a hinged cover, of a fluid actuated piston for operating said cover, a valve adjacent one end of said trough for controlling the inlet of fluid to said piston, a second valve adjacent the other end of said trough for controlling the exhaust from said piston, a lever adjacent each end of said trough, said levers being fulcrumed intermediate their ends in forked bearings on said trough and having one end slidably connected to said valves, and a rocker block on the other end of each of said levers, said rocker blocks having a tapered recess therein adapted to receive the pipe passing under said cover, thereby rocking said levers and actuating said lever.

1,399,883. TROUGH-COVER-LIFTING MECHANISM. MAX ROSENBERG, Pittsburgh, Pa., assignor to National Tube Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Jan. 13, 1921. Serial No. 436,954. 7 Claims. (Cl. 80—42.)



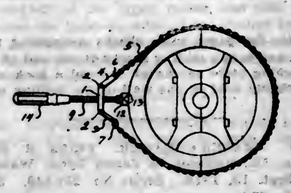
7. In a pipe mill, the combination with the sizing rolls and cooling table of said mill, said cooling table having a dumping trough, a hinged cover for said trough and means for closing the pathway to said rolls, of electrically operated means for controlling the movement of said pathway closing means and said dumping cover, said controlling means being arranged to close said pathway when said dumping cover is lifted, and to hold said pathway closed until the pipe is released by said dumping cover.

1,399,884. PLATE-MAGAZINE FOR CAMERAS. ALFRED A. RUTTAN and CHARLES B. HUTCHINGS, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 13, 1920. Serial No. 365,470. 15 Claims. (Cl. 95—90.)



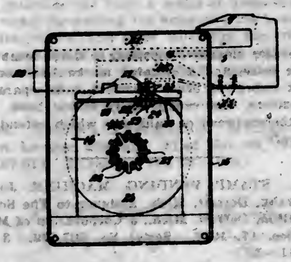
1. In a plate magazine for cameras, the combination with a casing embodying two plate chambers and an intermediate exposure opening partly in register with both chambers, of a shifter adapted to transfer a plate from one of said chambers into registry with the exposure opening.

1,399,885. CHAIN CLAMP. JOHN HENRY RYAN, Brighton, Mass. Filed Mar. 2, 1921. Serial No. 449,142. 2 Claims. (Cl. 81—65.)



1. In a device for the purpose indicated, a head, a link jaw connected to one end of the head, a link jaw connected to the opposite end of the head and provided with a hook, a flexible clamp connected to the first link jaw and passing about the work to be clamped and having its other end adapted to detachably engage said hook, and means adjustable through the head and bearing upon the work, for drawing the flexible clamp taut.

1,399,886. DOOR-LOCKING MECHANISM. ANGELO DOMENICO SARRA, New York, N. Y. Filed Nov. 5, 1920. Serial No. 421,945. 4 Claims. (Cl. 70—53.)



1. A lock of the type described comprising a casing, a sliding bolt mounted therein, a tensioned dog carried by

the belt, positioned within the casing below the belt and having spaced notches thereon extending under the casing having peripheral outlines adapted to receive the fastened dog carried by the belt to shift the belt within the casing and independently operating means associated with the dials to position the notched edges thereof for reception of the dogs.

1,399,827. SALES-CHECK HOLDER AND MOUCHER THEREFOR. WALTER H. SAWYER, Philadelphia, Pa., assignor to Harry R. Keen, Philadelphia, Pa. Filed Aug. 15, 1919. Serial No. 317,901. 1 Claim. (Cl. 211—87.)



A holder for paper sales checks comprising means to surround and hold a pack of checks at one end of the pack, and a backing plate having at one end a hook straddling and detachably held on one wall of the holding means.

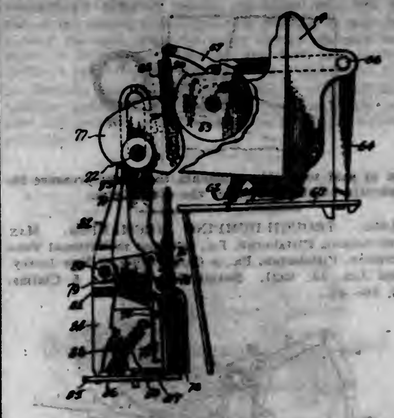
1,399,868. ERASER-CLEANER. FRANK M. SCHAEFER, Chicago, Ill., assignor to James Lynn, Wabash, Ind. Filed Sept. 19, 1918. Serial No. 254,849. 3 Claims. (Cl. 15—25.)



3. An eraser cleaner comprising a shaft, means for rotating the same, and a cleaning mechanism mounted on said shaft embracing brush members, rods separating the brush members, and centrifugally acting hook members disposed therebetween on said rods which extend parallel to the shaft.

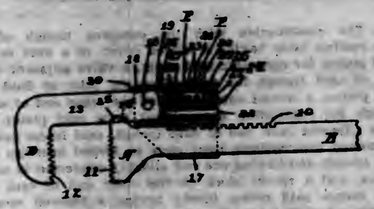
1,399,889. STAMP-VENDING MACHINE. JOSEPH J. SCHERMACK, Detroit, Mich., assignor to The Schermack Corporation, Detroit, Mich., a Corporation of Michigan. Filed Dec. 17, 1917. Serial No. 207,579. 3 Claims. (Cl. 211—33.)

3. In a stamp vending machine, a strip frame adapted to have stamps move downwardly in front thereof, a drive shaft above said frame, a slotted arm on said shaft, a cam on said shaft adapted to reciprocate said arm, sliding stamp feeding device in front of said strip frame attached



to said arm and having fingers normally against the stamps and adapted to shift the stamps downwardly on said strip frame.

1,399,890. WRENCH. EMIL P. SCHWARZ, St. Paul, Minn. Filed Dec. 30, 1919. Serial No. 348,428. 1 Claim. (Cl. 81—167.)

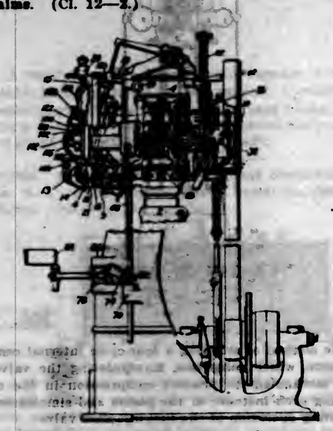


A wrench, comprising, in combination, a stationary jaw member having a handle bar, thread engaging teeth on one edge of the handle bar, a jaw extending from one end of the handle bar, side guides projecting from the jaw portion and a bearing between said side guides, a yoke sliding longitudinally on said handle bar having an aperture in one end and a transverse passage across said engaging teeth, said passage being closed at its outer end by an integral connecting portion and formed with a handle bar receiving longitudinal guide way at the inner end of said transverse passage, said yoke member being also formed with outwardly extending longitudinal gudgeon guide passages, and with outwardly extending spring holding receptacles open at their outer ends to receive springs and connecting with said guide passages, a screw in said transverse passage having gudgeons in and movable outwardly in said guide passages, a spring in each of said receptacles bearing downwardly against said gudgeons and releasably urging said screw with its teeth into engagement with the teeth of said handle bar, a movable jaw member having a rock bar pivotally secured at one extremity in said aperture, and a jaw on its free end adapted to cooperate with said stationary jaw, said rock bar being fulcrumed freely on the bearing between said side guides, the inner surface of said aperture and the back of said rock bar being formed with a clearance space adapted to permit only limited free outward tilting movement of the rock bar in the yoke and consequent limited opening movement of the movable jaw, and closures in the outer ends of said spring holding receptacles.

1,399,891. PROCESS OF ISOLATING FIBER FROM RAMIE. DONALD H. GOODY, Dedham, Mass., assignor to Arthur D. Little, Incorporated, Cambridge, Mass., a Corporation of Massachusetts. Filed Aug. 7, 1916. Serial No. 113,280. 2 Claims. (Cl. 69—4.)

1. Process of isolating fiber from ramie, which consists in subjecting the raw material in the presence of water to mechanical force causing progressive disintegration of the material and detachment of the pith from the fiber and simultaneously removing the insoluble impurities and the pith by screening while retaining the purified fiber.

1,399,892. LASTING-MACHINE. THOMAS H. SMELY, Malden, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 17, 1920. Serial No. 271,642. 18 Claims. (Cl. 12—2.)



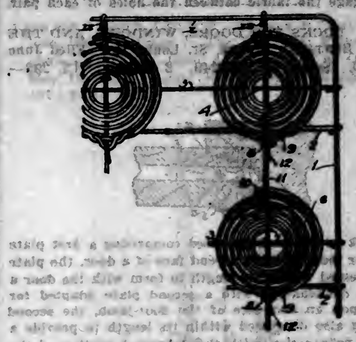
1. In a machine of the class described, the combination of a gripper having its shank disposed substantially perpendicular to the shoe bottom, means for operating the gripper to seize the stock, means for effecting updraw and overdraw movements of the gripper, means for giving the gripper a lateral movement, after it gripe the stock, inwardly of the shoe, and means for giving the gripper a turning movement in a similar direction.

1,399,893. SHUTTLE-EYE. JOHN C. SHAMBOW, Woonsocket, R. I., assignor to Shambow Shuttle Company, Woonsocket, R. I. Filed Feb. 12, 1921. Serial No. 444,823. 8 Claims. (Cl. 139—46.)



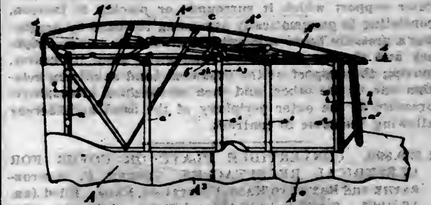
1. In a shuttle, an eye having an axial passage and formed with a radial slot leading therefrom and a diagonal slot terminating in a guide hole, and having a peripheral cut-out extending from the radial slot upwardly, a guard beam by the shuttle body and extending above the lower end of the peripheral cut-out, and a pair of cutting projections extending into the axial passage and having their free ends confronting and spaced and formed to permit the passage of the yarn and to cut same upon any bunches or knots borne by the yarn encountering the projections.

1,399,894. BED-SPRING. JOHN WILLIAM SEARS, Muskogee, Okla. Filed May 14, 1920. Serial No. 381,454. 2 Claims. (Cl. 5—39.)



1. A bed spring comprising an upper frame having longitudinally extending strands, a lower frame, spiral springs positioned between the frames in longitudinally extending rows and having their lower ends connected with the lower frame and their upper ends at one side intertwined with the longitudinally extending strands of the upper frame and bent to provide outstanding eye extensions within the intertwined portions whereby the upper portions of the springs will be held against turning and against movement upon the longitudinally extending strands of the upper frame, and side arms extending from the opposite sides of the springs and having their end portions bent to provide hook elements extending through the eye extensions of adjacent springs to slingedly connect the springs.

1,399,895. AUTOMOBILE-CURTAIN. FRANK L. SHOEMB, Cincinnati, Ohio. Filed Jan. 6, 1919. Serial No. 269,851. 9 Claims. (Cl. 296—143.)



1. The combination of an automobile body, a top having in it a series of bows, a series of guides, means for securing the guides to the body, a series of arms engaging the guides, means connecting the arms and the bows, a series of curtain rollers, and arms mounting the rollers upon the bows and adapted to hold the rollers either in transverse positions or in longitudinal position above the guides.

1,399,896. LACING-FASTENING. MICHAEL HOLROYD SMITH, London, England. Filed Mar. 26, 1917. Serial No. 157,577. 2 Claims. (Cl. 24—140.)



2. Lacing fastenings embodying therein fabric turned upon itself and having a plurality of pairs of small holes

along the bight of the fabric, and a sequence of staples having prongs passed through the holes of each pair and bent toward and lapped upon each other, whereby said prongs engage the fabric between the holes of each pair.

1,399,897. LOCKS FOR DOORS, WINDOWS, AND THE LIKE. BENJAMIN STOREN, St. Louis, Mo. Filed June 28, 1920. Serial No. 392,249. 3 Claims. (Cl. 292—340.)



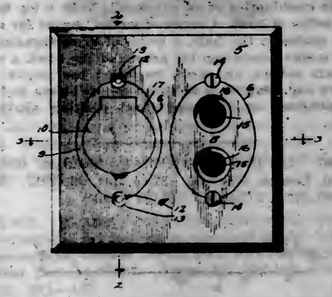
1. A lock of the kind described comprising a first plate adapted for location upon an end face of a door, the plate being depressed within its length to form with the door a pocket, in combination with a second plate adapted for location upon an end face of the door-jamb, the second plate being also depressed within its length to provide a cavity for coöperation with the depressed portion of the first plate, and a hook integral with one side edge of the second plate and adapted to fit within said pocket when the door is closed, the hook lying within the depression of the second plate and its outer face being flush with the outer face of the second plate to each side of said depression.

1,399,898. APPARATUS AND METHOD FOR HANDLING RUBBER GOODS. THOMAS SLOPER, Devizes, England. Filed June 17, 1921. Serial No. 478,319. 14 Claims. (Cl. 18—2.)



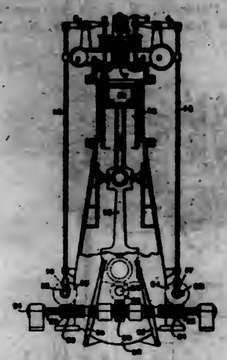
1. A method of removing an endless band, from a circular support which it surrounds or placing it thereon, consisting in pneumatically expanding the band by producing a pressure below atmospheric around its outer periphery and thereby flexing the band away from its center, moving the support or the expanded band axially in relation one to the other, and then establishing atmospheric pressure at the outer periphery of the band and thereby allowing the same to contract.

1,399,899. CONVERTIBLE PLATE OR COVER FOR ELECTRICAL RECEPTACLES. JOSEPH F. SONTGRATHE and RAYMOND KALB, Cherryvale, Kans. Filed Jan. 18, 1921. Serial No. 438,184. 4 Claims. (Cl. 247—23.)



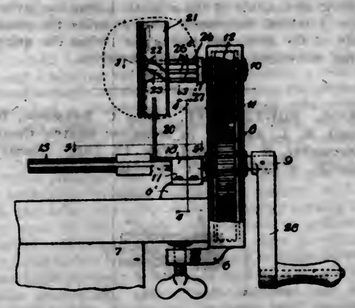
1. A device of the character described comprising a face plate for an outlet box having a plurality of like main openings, closure plates detachably mounted within said openings and being interchangeable with each other, said closure plates having their outer surfaces substantially flush with the outer surface of the face plate, each closure plate being adapted to coöperate with a different type of electrical unit, and means for holding the closure plates and face plate in place in use.

1,399,900. METHOD OF AND APPARATUS FOR MANIPULATING INTERNAL-COMBUSTION ENGINES. CARL G. SPRADO, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Oct. 22, 1919. Serial No. 332,565. 18 Claims. (Cl. 123—41.)



1. The method of stopping a four-cycle internal combustion engine, which comprises, manipulating the valve operating mechanism to produce compression in the cylinder during each instroke of the piston and simultaneously interrupting operation of the fuel injection valve.

1,399,901. FRUIT AND VEGETABLE PARER. PAUL SPROMS, Chicago, Ill. Filed Apr. 10, 1920. Serial No. 372,888. 7 Claims. (Cl. 146—8.)



1. In a device of the class described, a revoluble holder, a threaded shaft having its axis substantially parallel with the axis of revolution of said holder, a carrier provided with a tapped hole to receive and coact with said threaded shaft whereby revolution of said shaft shall cause a movement of said carrier longitudinally thereof in either direction depending upon the direction of such revolution, means for actuating said holder and said shaft, and a cutter member yieldingly mounted on said carrier to engage an article on said holder and constructed to cut during the movement of the carrier in either direction.

1,399,902. FRUIT AND VEGETABLE PARER. PAUL SPROMS, Chicago, Ill. Filed July 15, 1920. Serial No. 396,484. 7 Claims. (Cl. 146—8.)



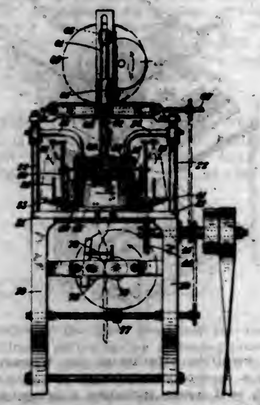
1. A vegetable parer comprising a support, a revoluble vegetable holder mounted on said support, a cutter carrier movable longitudinally of the axis of said holder, a blade having a narrow cutting end, and a substantially spherical guard about the cutting end of said blade.

1,399,903. DRYING DEVICE. GEORGE STEVENSON, Camden, N. J. Filed July 22, 1920. Serial No. 398,125. 4 Claims. (Cl. 34—18.)



1. A device of the character described for use in connection with printing presses for printing sheet material, including a burner pipe having a row of holes in its side to cause flames to be projected laterally therefrom in a direction substantially parallel to the printed sheet; and a screen extending laterally substantially parallel on its top with the flames and printed sheet and forming a housing for said flames; substantially as described.

1,399,904. WEAVING-MACHINE. THOMAS TERRELL, London, England. Filed Feb. 24, 1920. Serial No. 360,951. 17 Claims. (Cl. 139—7.)



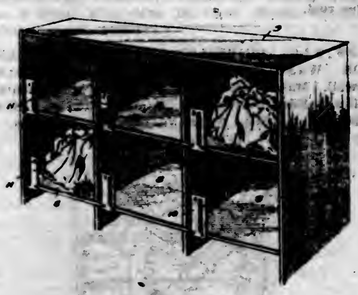
17. A mandrel for circular looms, comprising a body portion having part of its surface provided with a spiral shoulder, the angle of which is substantially equal to the angle of the spiral on which the weft threads are laid, substantially as described.

1,399,905. GATE DEVICE. BENNET B. THURSTON, Toledo, Ohio, assignor to The Haughton Elevator & Machine Co., Toledo, Ohio, a Corporation of Ohio. Filed May 15, 1918. Serial No. 234,594. 25 Claims. (Cl. 187—52.)



25. An elevator car, a car gate, hoist means for the gate, a guide carried by the gate, a block movable in the guide, a line providing a bight about the block and connecting the gate and car, a dog automatically thrown on initial travel of the block, and a well for the car having a two-part door, simultaneous travel effecting connecting means between the two parts of the well door, one of said doors being provided with means to be engaged by the dog whereby opening of car door may also open the well door.

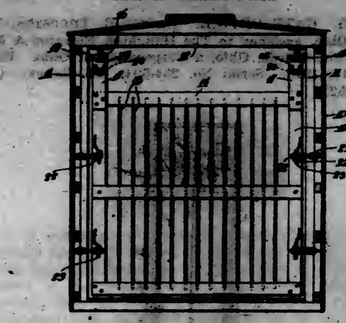
1,399,906. LAUNDRY-CHECKING DEVICE. JOHN H. TODD, Cleveland, Ohio. Original application filed Apr. 24, 1919, Serial No. 292,326. Divided and this application filed Apr. 15, 1920. Serial No. 374,037. 3 Claims. (Cl. 40—19.5.)



1. A checking device comprising a series of open receptacles for the article to be checked, a key fixedly secured to the oute redge of each receptacle adjacent the open end thereof, and a check member adapted to be removably fitted to each key.

1,399,907. [WITHDRAWN.]

1,399,908. MOVABLE PARTITION FOR STOCK-CARS. Thomas A. Vassos, Wilson City, N. C. Filed Sept. 9, 1920. Serial No. 408,816. 1 Claim. (Cl. 119—11.)



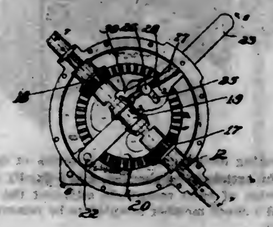
The combination with a housing member provided with vertical braces, spaced from the sides thereof, of rails positioned beneath the roof thereof, a partition member, hinges connecting said partition member and said rails, said hinges being slidable longitudinally on said rails, means to retain said partition member in a fixed position with respect to said housing member, comprising means carried by said partition member adapted to encircle said spaced vertical braces and means carried by said partition to lock said encircling means.

1,399,909. METAL RAIL-TIE. John Kelly Wadsworth, Cuba, Ala. Filed Feb. 7, 1921. Serial No. 443,233. 6 Claims. (Cl. 238—282.)



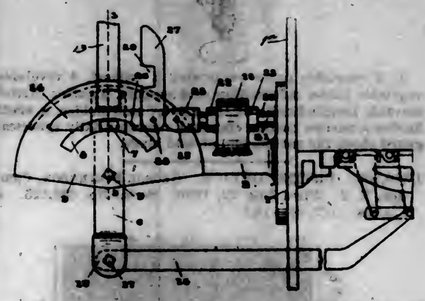
6. A device of the class described comprising a hollow metal tie including spaced longitudinal walls having inturned supporting flanges at their upper edges, spaced rails resting on said flanges, and clamping means for the rails slidable between said walls and beneath said flanges, being equipped with spaced shoulders on which said flanges rest.

1,399,910. DRIVE AND REVERSING MECHANISM FOR WASHING-MACHINES. Charles Wilhart, Lowell, Mass., assignor, by mesne assignments, to Gillespie-Eden Corporation, a Corporation of Delaware. Filed Oct. 6, 1919. Serial No. 328,865. 2 Claims. (Cl. 74—50.)



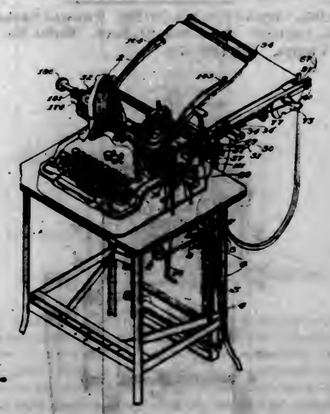
1. The combination with a drive for a washing machine of a reversing mechanism for the clothes drum comprising a gear connected to the clothes drum, a pair of bevel pinions normally meshed therewith, an inclined drive shaft on which said pinions are journaled, a clutch element on the drive shaft adapted to interlock with said pinions to drive the same, a pivoted star wheel carried on said gear having one tooth longer than the others, a shifting lever for the clutch element, and pins on said gear and lever for co-action with the star wheels, the pin on the lever adapted to adjust the same to bring the long tooth into contact with the gear pin to effect shifting of the lever to reverse the drive to the gear after a predetermined number of revolutions thereof.

1,399,911. GRATE SHAKING AND DUMPING MECHANISM. Robert C. White, Irondale, Ala. Filed Nov. 15, 1920. Serial No. 424,312. 8 Claims. (Cl. 126—169.)



1. In a grate shaking mechanism, a pivoted shaking lever having a projection, a notched stop member movable into position to engage said projection to limit the angular movements of said lever, a second movable stop member movable to engage said projection and hold the lever in neutral position, and a common means to adjust said stop members.

1,399,912. MANIFOLD ATTACHMENT FOR TYPEWRITERS. Fred G. White, Kansas City, Mo., assignor to Albert Pico, Kansas City, Mo. Filed Oct. 7, 1918. Serial No. 257,250. 18 Claims. (Cl. 197—126.)



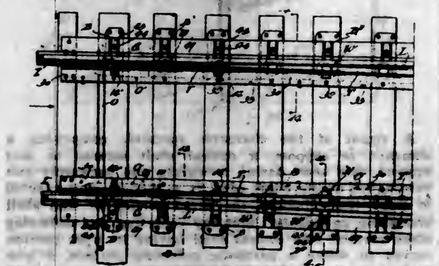
1. In a manifold attachment for typewriters, means for pulling a predetermined length of paper through the attachment, said means including a swinging frame normally inclined rearwardly, means for releasing the frame to permit it to swing into vertical position, and a supplemental extensible frame on the first named frame mounted for movement longitudinally of the first named frame after the first named frame has swung to a vertical position.

1,399,913. AEROPLANE. Ernest E. Wood, Minneapolis, Minn. Filed Mar. 10, 1921. Serial No. 451,228. 9 Claims. (Cl. 244—14.)



1. An aeroplane comprising, a fuselage, framework supported on the fuselage, a main plane supported on the framework, said main plane being curved transversely and having downwardly inclined end portions, head and tail planes at the ends of the main plane, and transversely curved subsidiary planes mounted at the sides of the main plane and movable to occupy expanded and folded positions.

1,399,914. RAILWAY-SWITCH. John Alonzo, Deborgia, Mont. Filed May 15, 1920. Serial No. 381,725. 28 Claims. (Cl. 246—433.)



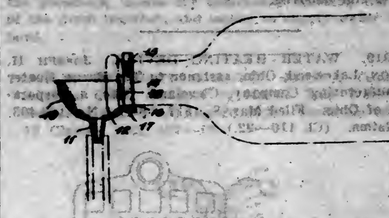
2. A railway switch comprising a switch tongue movable vertically throughout its length, a plurality of horizontal rotary wedges supporting said tongue and mounted on vertical axes, gear teeth on said wedges, a longitudinal rack bar meshing with the teeth on all wedges, and means for sliding said rack bar.

1,399,915. TAB-ATTACHING DEVICE FOR LACES. Arthur E. Anderson, Oak Park, Ill. Filed May 29, 1918, Serial No. 237,224. Renewed Aug. 25, 1919. Serial No. 319,647. 8 Claims. (Cl. 81—15.)



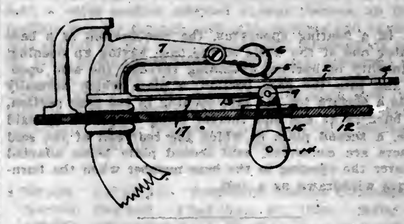
1. In a device of the class described the combination of a pair of hinged plates having matching grooves in the inner faces thereof adapted to compress and form a tab around a lace, one of said plates being provided with a perforation at the end of the groove thereof, adapted to receive the lace therethrough for holding same in the groove.

1,399,916. LIQUID-DROPPER. Louis V. Arnson, Newark, N. J. Filed June 22, 1921. Serial No. 479,561. 2 Claims. (Cl. 215—56.)



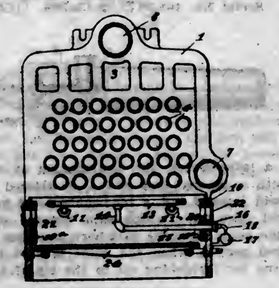
1. A tube comprising a funnel portion having a cut away portion to approximately fit the same to the neck of a bottle, an outlet from said funnel portion, and means to secure the device closely adjacent the lip of a bottle.

1,399,917. PHONOGRAPH. Evelyn J. Rupert Atkinson, Melbourne, Victoria, Australia. Filed Nov. 3, 1919. Serial No. 335,339. 2 Claims. (Cl. 274—1.)



1. In a phonograph for reproducing from disk records, a rotatable support for the record, a rotatable shaft arranged parallel to the surface of said support and disposed radially with respect to said support, a wheel engaging said surface and splined to said shaft, means for rotating said shaft, and means controlled by a record on said support for moving said wheel longitudinally of said shaft.

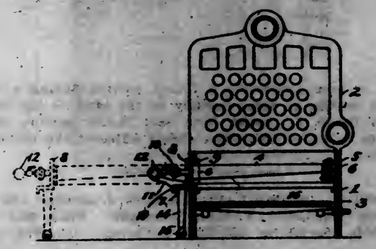
1,399,918. WATER-HEATING DEVICE. Joseph H. Bacon, Lakewood, Ohio, assignor to The Bacon Heater Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 18, 1916. Serial No. 85,828. 3 Claims. (Cl. 110—22.)



2. In a water heating device, a base portion adapted to support a water containing portion, a series of grate bars supported by the base portion adjacent the lower part thereof, an opening through which coal may be supplied to the grates, a door for closing the opening, a plurality of gas burners within the said base and ex-

tending transversely thereof, means for supporting said gas burners said base portion having openings in a wall thereof through which the said gas burners may be inserted and removed.

1,399,919. WATER-HEATING DEVICE. Joseph H. Bacon, Lakewood, Ohio, assignor to The Bacon Heater Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 8, 1917. Serial No. 153,403. 2 Claims. (Cl. 110—22.)



2. In a heating apparatus, the combination of a base member one of the walls of the base having an opening, a plurality of burners extending through the said opening and into the base portion, a plate which normally forms a closure for the said opening in the base portion, the burners at one end thereof being supported by said plate, a second plate to which the rear end of the said burners are connected, said second plate being adapted to cover the opening in the base member when the burners are withdrawn as a unit.

1,399,920. WHOLE-RICE MEAL. Moses M. Baumgartner, Freeport, Ill. Filed Apr. 19, 1920. Serial No. 374,921. 1 Claim. (Cl. 99—11.)

A whole rice meal consisting of sterilized dried rice kernels embodying the whole natural rice, including the germ and cuticle with the starch dextrinized and the fats and proteids stabilized, and reduced to a finely divided form.

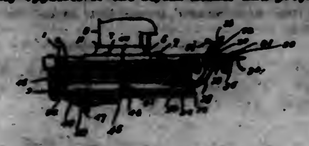
1,399,921. LATHE-CENTER. Lyle Berman, Milwaukee, Wis., assignor to Manufacturers' Hardware Corporation, Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 14, 1919, Serial No. 289,906. Renewed May 12, 1921. Serial No. 468,977. 2 Claims. (Cl. 82—33.)



1. In a lathe-center, the combination of a shank provided with a tapered end and a shouldered portion, adjacent said tapered end, a renewable point provided with a tapered bore into which said tapered end fits, the end of the point adjacent said bore abutting against said shouldered portion when the point is held to the work, and means for furnishing oil to the tip of the point.

1,399,922. REPRODUCER. Josey Belfiddio, Bridgeport, Conn. Filed Apr. 20, 1920. Serial No. 375,804. 4 Claims. (Cl. 274—28.)

3. A reproducer comprising a circular body, a single diaphragm in said body, a double stylus holder secured to one side of the body, a support secured to the body diametrically opposite to the stylus holder and projecting



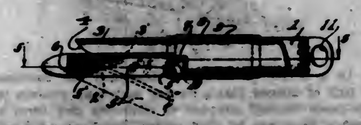
over the diaphragm, a single stylus holder pivoted to said support, and means connecting the stylus holders to the diaphragm.

1,399,923. SIGNALING DEVICE. William Vreeland Bimson, Hillsboro, Oreg., assignor of one-half to Arthur C. Shute, Hillsboro, Oreg. Filed Mar. 18, 1920. Serial No. 366,728. 1 Claim. (Cl. 88—1.)



A signal of the character specified, comprising a standard or support, a conical shell secured to said support, said shell flaring forwardly and outwardly and surrounded on its outer edge by a vertical ring adapted to carry traffic indicia, the flared portion of said shell presenting an annular light ray collecting and deflecting plane surface, said conical shell having its apex portion curved to define a parabolic reflecting surface, a lens held at the focus of said parabola, the diameter of said lens being less than the diameter of the parabolic area and spaced forward of the vertical plane of the juncture of the flared and parabolic portions of the shell, whereby an annular passage is defined between the lens and the shell to permit passage of light rays from the headlight of the approaching vehicle device, which have been collected and deflected by the plane surface of the shell into the parabolic reflector and also received and reflected by the parabolic reflector to be reflected forwardly through the lens to the approaching vehicle.

1,399,924. FABRIC-CUTTING DEVICE. Andrea Lassen Berthelsen, Chicago, Ill. Filed Apr. 19, 1920. Serial No. 374,975. 10 Claims. (Cl. 30—9.)



1. A fabric cutting device of the class described, comprising a blade holder, and means movable along the holder to thereby change the point of the blade edge

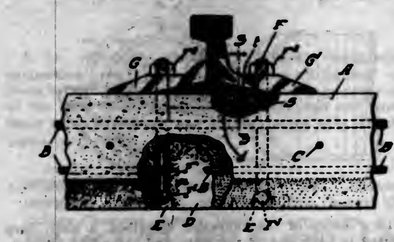
which is operative to effect the cutting action, said means being constructed to guide the severed portions of the material laterally outward with respect to the blade edge.

1,399,925. WASHING-BOWL. Carl P. Bohland, St. Paul, Minn. Filed Apr. 5, 1920. Serial No. 371,215. 8 Claims. (Cl. 137—21.)



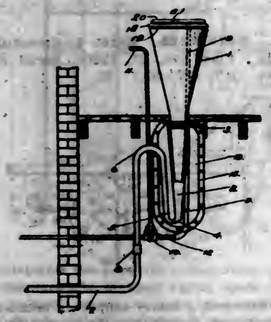
1. In a device of the class described, a shallow receptacle for a washing fluid providing an endless submerged course for vehicles, said course sloping downwardly and inwardly to a central area, said area being depressed to form a settling basin, the inclination of said course serving to aid drivers in the management of their vehicles and also serving to direct silt accumulating from the vehicles toward the settling basing during the agitation of the liquid by the moving vehicle.

1,399,926. CONCRETE TIE AND RAIL-FASTENING. Martin A. Bonk, Manitowoc, Wis. Filed Mar. 17, 1920. Serial No. 366,684. 2 Claims. (Cl. 238—377.)



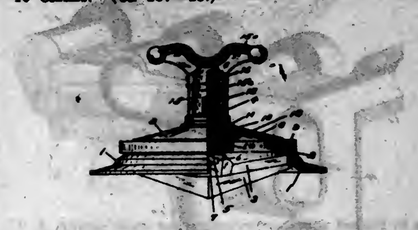
2. A tie provided with cross slots at its underside, rail fastening bolts passing through the tie and having T-heads which lie in the said cross slots, clamps bearing upon the flanges of the rail and receiving said bolts, and nuts upon the free ends of the bolts to hold the parts in assembled position and a cushioning filler block spacing the bolts at each side of the rail.

1,399,927. TOILET. David S. Buck, Pueblo, Colo. Filed June 15, 1920. Serial No. 389,215. 3 Claims. (Cl. 4—20.)



2. In apparatus of the character described, a bowl, a substantially vertical trap member connected with the lower end of the bowl, a gooseneck connected with the lower end of the trap member, a two part heat insulating drum inclosing the trap member and the inner arm of the gooseneck, means for detachably securing the parts of the drum together, and means to supply water to the bowl.

1,399,928. IRRIGATION-VALVE. John A. Case, Los Angeles, Calif., assignor to Martin Iron Works, Los Angeles, Calif. Filed Aug. 24, 1921. Serial No. 496,062. 10 Claims. (Cl. 137—18.)



1. In an irrigation valve, a base member having a valve seat, a valve member adapted to seat thereon, an intermediate member through said valve member and having a part seating on said valve member, said intermediate member being internally threaded, a valve stem connected with said base member and threaded into said intermediate member, and a handled member fitting upon said intermediate member and having a handle for turning said intermediate member independently of said valve member to seat and unseat the said valve member.

1,399,929. LEGGING. Frederick George Chamberlin, Norfolk, England. Filed Aug. 30, 1920. Serial No. 406,078. 10 Claims. (Cl. 36—2.)



1. A legging or the like having in combination means to fasten the top corner of the overlapping edge of the legging, an encircling strip of substantially uniform width at the bottom, and means to fasten the free end of said strip after it has been wrapped around the lower end of the legging, the overlapping edge of the latter being so formed as to extend diagonally from its upper end to the top edge of said encircling strip and the length of the strip beyond its connection with the said diagonally extended overlapping edge being such as to wrap around the lower portion of the legging to an appreciable extent, substantially as described.

1,399,930. COMBINED INTAKE AND EXHAUST MANIFOLD. George Florian Clark, Des Moines, Iowa. Filed Dec. 27, 1919. Serial No. 347,673. 1 Claim. (Cl. 123—122.)

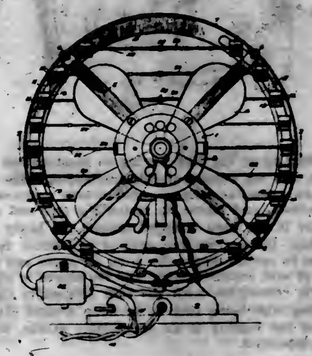
A combined intake and exhaust manifold comprising a body having inner and outer spaced walls forming an

exhaust passage therebetween, laterally extending intake and exhaust connecting tubes, the exhaust tube of which communicates with the said exhaust passage, a lower intake pipe, and an intake channel formed in the outer wall with a portion of its surface exposed to the exhaust passage and including an upper horizontal distributing portion in communication at its opposite ends with the tubular intake connections, a lower horizontal portion in communication with the intake pipe, curved sections ex-



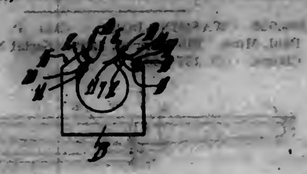
tending upwardly and inwardly into one another from the ends of the lower horizontal portion and partially choked at their upper meeting ends by a laterally constricted section forming a relatively narrow slot like passage way above the upper meeting ends of the curved sections and between the same and the distributing portion approximately at the center of the latter, said upper meeting ends of said curved sections having a fuel guiding portion to deflect fuel upwardly through said slot-like passage.

1,399,931. ELECTRIC FAN HEATER. JOSEPH C. CLOTTS, Fort Thomas, Ky. Filed Nov. 23, 1920. Serial No. 426,065. 10 Claims. (Cl. 219—42.)



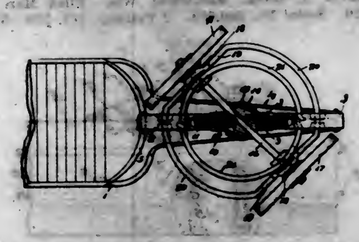
1. In a heat circulating apparatus, removable heating elements electrically connected in parallel and disposed in the air current path of an electric fan, electrical connections for said heating elements in circuit with the fan power current, and means for making and breaking the said heating circuit independently of the fan circuit.

1,399,932. DIE. EDWARD W. CLOUTIER, Conway, Mass. Filed May 24, 1920. Serial No. 383,684. 3 Claims. (Cl. 10—121.)



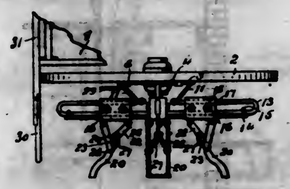
3. A thread cutting device, having the usual leading portion and a tapering portion at the entrance end of the die to form the usual cutting portion, and a second tapered portion substantially at right angles to the first tapered portion and intersecting therewith, the intersection of said tapered portions constituting the cutting edge of the cutting portion.

1,399,933. DRIVE FOR TRUCKS AND THE LIKE. HENRY L. CRAVEN, Dalton, Mich. Filed Nov. 17, 1919. Serial No. 338,666. 4 Claims. (Cl. 180—50.)



1. In a device of the character described, a body, bars connected to each end of the body and extending horizontally toward each other, each of said bars being formed with a central ring and slotted lengthwise at the central portion thereof, a ring head mounted within the ring, a gear attached to said head, projections extending inwardly from opposite sides of the band, a spherical driving member located within the band and provided with grooves in opposite sides into which the projections extend, an axle passing through the driving member, wheels mounted at the ends of the axle, and means for mounting the axle on the body and permitting the same to turn to different angles with respect to the body, substantially as and for the purposes described.

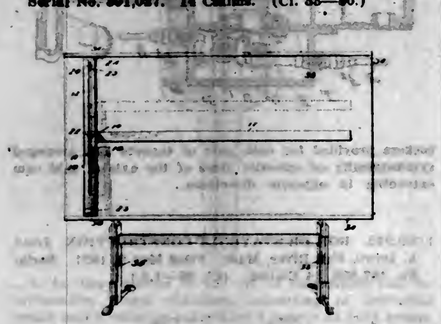
1,399,934. WIRE-REEL. ETHEL L. CROSWHITE, Kansas City, Mo. Filed Dec. 27, 1920. Serial No. 433,106. 2 Claims. (Cl. 242—95.)



1. In a wire reel, a rotary support, a member carried by said support and having two diametrically opposite U shaped radial portions, two clamping plates respectively radially adjustable on said U-shaped portions, means for securing each clamping plate in the position in which it

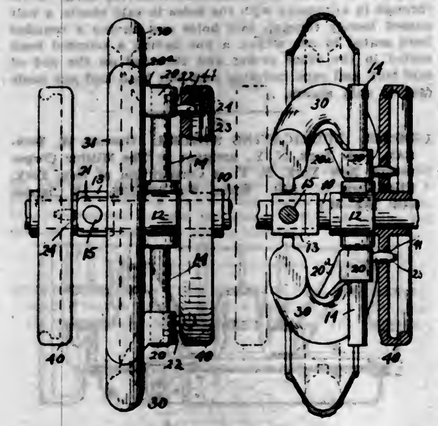
may be adjusted and for holding it from turning, two coil holding members respectively pivoted to said clamping plates and movable to and from a coil holding position, and releasable means for locking the coil holding members in the holding position, substantially as set forth.

1,399,935. ADJUSTABLE BLACKBOARD T-SQUARE. MILO L. CURTS, Bloomington, Ind. Filed June 23, 1920. Serial No. 391,087. 14 Claims. (Cl. 33—90.)



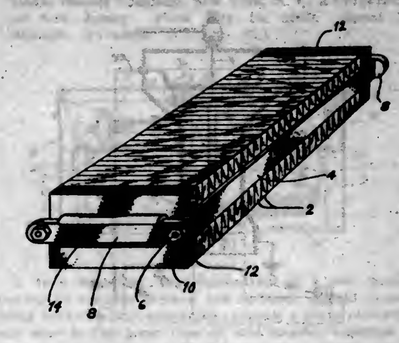
1. An adjustable blackboard T-square comprising a supporting arm capable of lengthwise adjustment and a blade carried by the arm, said arms having gripping means at the ends thereof adapted to engage and bite into the inner faces of the top and bottom ledges of a blackboard frame or the like.

1,399,936. COLLAPSIBLE TIRE-CORE. HAROLD A. DENMIRE, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed July 9, 1921. Serial No. 483,499. 5 Claims. (Cl. 154—9.)



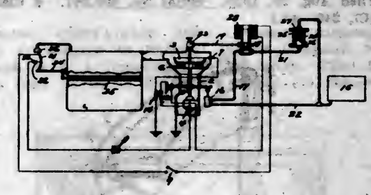
1. In a collapsible tire core, the combination of a shaft, a pair of diametrically opposed radial guide bars each having an inclined groove, a pair of arc-shaped core sections which are slidably supported on said guide bars respectively, each of said core sections having a pin which projects into the groove in the guide bar in which it is supported.

1,399,937. CUTTING-BLOCK. ARMIT C. BENDING, Johnson City, N. Y. Filed July 3, 1920. Serial No. 393,599. 7 Claims. (Cl. 164—78.)



1. A cutting block having its cutting body formed of a composition of cellulose fiber and leather.

1,399,938. FUEL-CONTROL SYSTEM FOR BURNERS. JOHN A. DOBLE, San Francisco, Calif., assignor to Doble Laboratories, San Francisco, Calif., a Corporation of California. Filed Apr. 29, 1918. Serial No. 231,309. 6 Claims. (Cl. 158—36.)



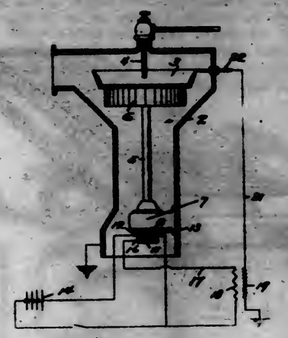
1. The combination with a liquid fuel burner, of an electric motor operatively associated therewith, a circuit for said motor, a conduit through which fuel is conveyed to said burner, a pump in said conduit, an electrically operated valve in said conduit between the pump and the burner, a by-pass connecting the conduit on the pressure side of the pump with the conduit on the intake side of the pump and means in the by-pass connection opposing the flow of liquid therethrough and operating to prevent an excessive pressure in the conduit.

1,399,939. LIQUID-FUEL BURNER. JOHN A. DOBLE, San Francisco, Calif., assignor to Doble Laboratories, San Francisco, Calif., a Corporation of California. Filed July 29, 1918. Serial No. 247,128. 6 Claims. (Cl. 171—97.)

1. The combination with a direct current motor provided with a commutator having regularly spaced conducting segments separated by stripe of insulation, of powers circuit brushes engaging said commutator, a plurality of spaced insulating sections of greater width than the insulating stripe arranged on said commutator, a brush engaging the commutator and adapted to wipe said insulating section, a circuit connected to said brush and an ignition circuit inductively connected to said brush circuit.

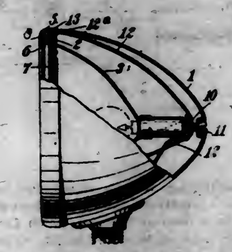
2. The combination with a direct current motor provided with a commutator having regularly spaced insulated conducting segments, of power circuit brushes engaging said commutator, a circuit in shunt on the power

circuit and having a brush engaging said commutator, means on the commutator for opening and closing said



shunt circuit, a transformer having its primary in said shunt circuit and an ignition circuit containing the secondary of said transformer.

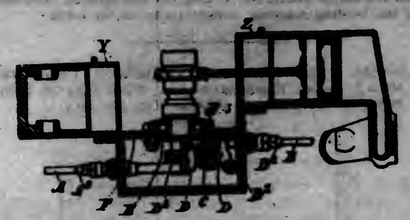
1,399,940. ELECTRIC LAMP FOR VEHICLES. PRIMUS OTTO DOREE, London, England, assignor to S. Smith & Sons (Motor Accessories) Limited, London, England. Filed Aug. 25, 1920. Serial No. 405,947. 6 Claims. (Cl. 240—41.)



1. The combination, with a lamp body, and a front member detachably mounted thereon, of a boss situated within the body at the rear thereof, arms radiating from said boss toward the front of the body, said arms co-acting at the front with the body and being shaped at the front to detachably engage said front member, and means arranged to be actuated from outside the body for moving said boss backward to cause the arms to pull said front member home on to the body, and forward to cause the arms to release the front member whereby the front member may be removed independently of said arms, substantially as described.

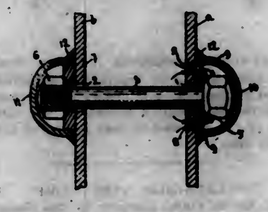
1,399,941. VALVE-OPERATING MECHANISM FOR INTERNAL-COMBUSTION ENGINES. WILLIAM WILSON DOUGLAS and STEPHEN LESLIE BAILEY, Bristol, England. Filed May 12, 1919. Serial No. 296,866. 2 Claims. (Cl. 123—56.)

1. In an internal combustion engine of the twin type the combination with a pair of opposed cylinders offset relative to each other, of a single cam shaft, an inlet and an exhaust valve for each cylinder, a pair of tappets for the two inlet and the two exhaust valves, the tappets of each pair being offset relative to each other in the same relationship as the two cylinders, a single cam provided on said cam shaft for each pair of tappets, and a pair of



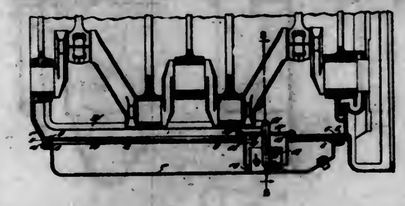
rockers provided for each pair of tappets and arranged symmetrically on opposite sides of the axis of said cam extending in opposite directions.

1,399,942. BOILER STAYBOLT CONSTRUCTION. JOHN A. DOWD, Fall River, Mass. Filed May 9, 1921. Serial No. 467,830. 4 Claims. (Cl. 85—1.5.)



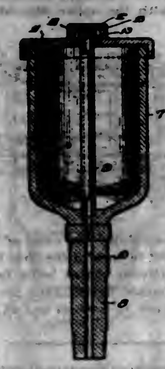
1. A device of the class described comprising a pair of spaced boiler sheets having a pair of substantially oppositely positioned holes therein, sockets having holes therethrough in alinement with the holes in said sheets, a bolt passed loosely through said holes and having a rounded head seated in one socket, a nut having a rounded head seated in the other socket and threaded on the end of said bolt, and caps inclosing said bolt head and nut made fast to said sheets.

1,399,943. LUBRICATING SYSTEM. GEORGE W. DUNHAM, New York, N. Y., assignor to The Militor Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 8, 1919. Serial No. 270,108. 11 Claims. (Cl. 184—6.)



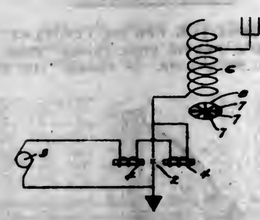
2. In a lubricating system of the character set forth, the combination of two substantially horizontal walls spaced one above the other, an inclosure supported by the lower wall, a suction duct having its receiving end disposed within said inclosure, and a casing carried by the upper wall and extending downward over the inclosure.

1,399,944. GREASE-CUP. ANTHONY EBERHART, Blue Island, Ill. Filed Sept. 22, 1920. Serial No. 411,902. 6 Claims. (Cl. 184—38.)



2. An improvement in the art of lubricating and decarbonating steam chambers, consisting in delivering steam into a chamber containing a supply of hard grease, melting the grease, and redelivering the steam with the entrapped grease to the chambers, the steam in its passage in both directions passing through a single conduit, said conduit extending through the body of hard grease.

1,399,945. RADIOTELEGRAPHY. HAROLD F. ELLIOTT, Palo Alto, Calif., assignor to Augustus Taylor, San Francisco, Calif. Filed July 24, 1920. Serial No. 398,757. 26 Claims. (Cl. 250—19.)



1. A radio telegraphy transmission system including an antenna circuit, an inductance coil in said circuit, a plurality of isolated overlapping sector circuits inductively connected to said inductance coil, and means for opening and closing the sector circuits.

1,399,946. CONNECTING LINK OR SHACKLE. FREDERIC WILLIAM ERICKSON, New York, N. Y. Filed Jan. 29, 1921. Serial No. 440,928. 4 Claims. (Cl. 24—231.)



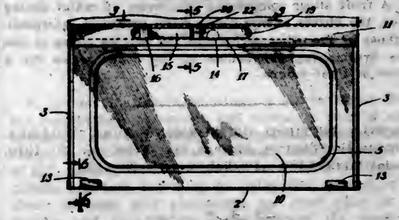
1. A connecting link or shackle to unite the separated ends or sections of chain, comprising a wire or bar whose ends are turned inward toward each other with a spiral located on said wire or bar and between the said ends, and rotatable thereon but without endwise movement.

1,399,947. CONTAINER. JOHN J. FERRALL, Ridgewood, N. J., PETER J. SUNDHEIM, Cincinnati, Ohio, and CHARLES H. TRETHEWEY, Queens, N. Y., assignors to National Biscuit Company, New York, N. Y., a Corporation of New Jersey. Filed July 16, 1920. Serial No. 396,655. 5 Claims. (Cl. 220—82.)



1. In a container, the combination of a side member having an opening therein, the material of said member being inwardly beat about the opening, a plate pivoted at one edge to the inner face of said member adjacent an edge of said opening, said plate having a forwardly extending portion adapted to fit closely within said opening, and an edge portion surrounding the same, and means for securing said plate in vertical position with a name card extending over the forwardly extending portion of the same and clamped between said plate and member around the margin of said opening, said means comprising a latch bar pivoted to said plate and a socket on said side member adapted to receive said bar.

1,399,948. CONTAINER. JOHN J. FERRALL, Ridgewood, N. J., assignor to National Biscuit Company, New York, N. Y., a Corporation of New Jersey. Filed July 16, 1920. Serial No. 396,656. 4 Claims. (Cl. 220—82.)



1. In a container, the combination of a side member having an opening therein with a cross piece above the opening having a horizontal slot therethrough, and spaced inwardly from said side member, a seating surface below said opening with lugs spaced inwardly from said side member, said cross piece and lugs being adapted to engage the inner surface of a transparent pane mounted between the same and said side member, a top abutment movable through said slot into and out of position to prevent upward movement of the pane, said abutment having a flange thereon to prevent entire withdrawal thereof from the slot, spring means pressing said abutment through said slot into operative position, and manually operable means movable into position to move said abutment out of operative position, and holding the same in such position.

1,399,949. SEAL FOR CONTAINERS. CROSBY FIELD, Yonkers, N. Y., and WALTER E. NEWELL, Bayonne, N. J., assignors to National Aniline & Chemical Co., Inc., a Corporation of New York. Filed Sept. 18, 1920. Serial No. 411,186. 19 Claims. (Cl. 217—114.)

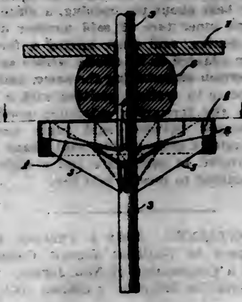
1. A seal for a container comprising a pair of wires extending across the end of the container at an angle to

each other and having their ends secured to the walls of the container, and a metallic member overlying the intersection of the two wires and having openings through



which the two wires extend, said member being mounted loosely on the wires and restrained from movement away from over the intersection of the wires by said intersection of the wires.

1,399,950. FRUIT-SLICER. CHARLES S. FISH, Rochester, N. Y., assignor to Boutell Manufacturing Co., Rochester, N. Y., a Corporation of New York. Filed Aug. 20, 1921. Serial No. 493,842. 8 Claims. (Cl. 146—8.)



1. A fruit slicer comprising two series of radial slicing knives, the knives of one series being arranged intermediate those of the other series and the cutting edges of one series overlapping the bodies of the other series for a portion of their length.

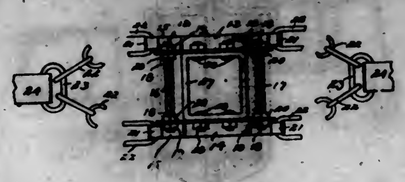
1,399,951. METHOD OF FORMING DISK WHEELS. GEORGE H. FORSYTH, Chicago, Ill. Filed Nov. 10, 1919. Serial No. 336,780. 10 Claims. (Cl. 29—159.)



1. The method of forming disk wheels from sheets of metal which consists in bending the sheet in the plane thereof to form an annulus and simultaneously to cause progressive expansion of the same toward the periphery whereby to taper the cross section.

1,399,952. MUD-HOOK. MAURICE HELTON FRANK, Anthon, Iowa. Filed Mar. 5, 1921. Serial No. 449,978. 4 Claims. (Cl. 152—14.)

1. A mud hook comprising a pair of spaced angle iron members adapted to extend transversely across the tread of a tire, a pair of spacing rods extended through registering openings in said angle iron members for spacing said angle irons relative to each other, a non skid block received between said angle iron members and between said spacing rods, said non-skid block being detachably fixed to said angle irons, the upper edge of said non skid block being flush with the upper edge of said angle iron



members, loops formed on the ends of said angle iron members, chains fixed to each of the ends in said loops, the free ends of the adjacent chains being fastened together, and a strap and buckle device fixed to said chains for securing said mud hook to a wheel as and for the purposes stated.

1,399,953. PYROTECHNIC COMPOSITION. ROBERT R. FULTON, Indian Head, Md. Filed Apr. 16, 1921. Serial No. 461,954. 3 Claims. (Cl. 52—24.)

1. A pyrotechnic composition of the character herein described containing iron oxid, cupric oxid, aluminum metal, magnesium metal and phosphorus.

1,399,954. PYROTECHNIC COMPOSITION. ROBERT R. FULTON, Indian Head, Md. Filed Apr. 16, 1921. Serial No. 461,955. 3 Claims. (Cl. 52—24.)

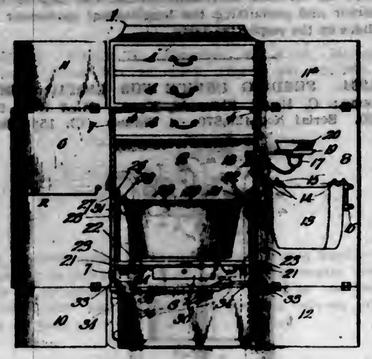
1. A pyrotechnic composition of the character herein described containing iron powder, cupric oxid and magnesium metal.

1,399,955. SIGNAL FOR USE ON VEHICLES. GEORGE ARTHUR GARTH, Nuwara Eliya, Ceylon. Filed Jan. 31, 1921. Serial No. 441,318. 16 Claims. (Cl. 116—48.)



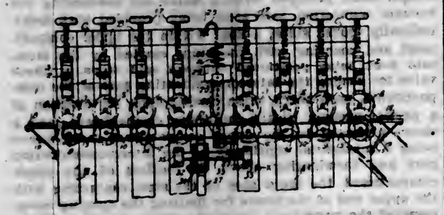
1. A direction indicator comprising in combination, a casing having a glazed aperture at the front, a signal member disposed to the rear of but close to the said aperture, a rotatable member within and disposed toward the rear of said casing, connecting means between the signal member and the rotatable member, and means for rotating the latter member.

1,399,956. BABY TOILET CABINET. ANNIE M. GAWTHROP, deceased, Kansas City, Mo., by order of court and name subsequently, to Florence B. Waller, Kansas City, Mo. Filed Jan. 27, 1920. Serial No. 354,440. 4 Claims. (Cl. 45—33.)



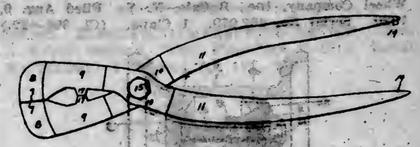
1. A baby toilet cabinet having a front opening, and a dressing table adjustable to an operative position forward of the cabinet, means to support the front end of the table when in operative position, and a pair of doors normally overlapping and closing the opening of the cabinet, and provided at their lower ends with foldable extensions for extending down to the floor when the doors are opened; said cabinet having an adjustable shield for extending from the said opening to the floor and coöperating with said door extensions in cutting off draft along the floor and adjacent the cabinet.

1,399,957. WILLOW-BARK-STRIPPING MACHINE. GAETANO GERACE, Windsor, Ontario, Canada. Filed Aug. 17, 1921. Serial No. 492,137. 1 Claim. (Cl. 144—207.)



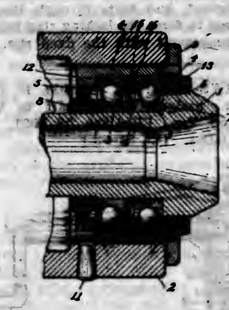
In a machine of the class described, the combination with a suitable frame, a horizontally arranged plurality of paired conveying rollers journaled in the frame, means for actuating said rollers simultaneously in a common direction, an upper transversely mounted scraper having a notched lower edge and tensioned downwardly, a lower scraper mounted parallel with the upper scraper and in a common vertical plane and having a notched upper edge tensionally engaging the notched edge of the upper scraper, means for separating said scrapers when required, a horizontal belt running transversely of the frame and mounted on pulleys journaled therein, a plurality of tensionally yieldable metallic strippers secured to said belt at spaced intervals and extending normally at right angles therefrom, those of said plurality of strippers travelling upwardly of said pulleys extending slightly above the horizontal plane of the notched edges of said scrapers, means for actuating said belt simultaneously with said rollers, and means for tensioning each pair of said rollers.

1,399,958. HOOF-TRIMMING TOOL. JAMES J. GOSNEY, Shaw, Oreg. Filed May 11, 1920. Serial No. 380,802. 1 Claim. (Cl. 168—49.)



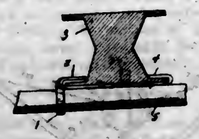
In a hoof trimmer, the combination of a pair of pivoted crossed arms which are equipped at the same ends with long wooden handles and having at each of the opposite ends a cutting edge forming an obtuse angle to the plane of the handles and forming an acute angle to the pivot axis, said cutting edge having convex faces and convex tips.

1,399,959. BALL-BEARING. BENOT M. W. HANSON, Hartford, Conn. Filed Jan. 16, 1920. Serial No. 351,890. 5 Claims. (Cl. 64—36.)



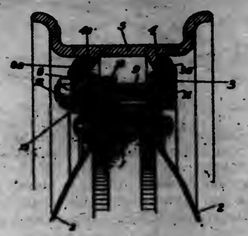
5. In combination, a housing; a sleeve keyed therein for longitudinal movement and having a pair of spaced abutments one of which is adjustable relative to the other; a spindle extending through said sleeve; a pair of ball bearing units interposed between said sleeve and spindle and each including an outer ring carried by said sleeve between said abutments, an inner ring on said spindle and anti-friction balls between the inner and outer ring; and a resilient spacing member between the outer rings.

1,399,960. PIPE-HANGER. WILLIAM HARDING, Cleveland, Ohio. Filed Mar. 18, 1921. Serial No. 452,843. 3 Claims. (Cl. 248—32.)



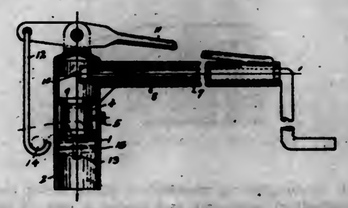
2. A hanger consisting of a bar having a suspending loop provided with a point extending laterally therefrom said bar being returned toward the loop and then extended beyond the point to provide a securing portion, and said point extending from the same side of the loop as and in spaced relation to the securing portion.

1,399,961. FIXED RIM AND LOCKING-RING STRUCTURE FOR DEMOUNTABLE RIMS. LOUIS D. HARVEY, Buffalo, N. Y., assignor to Harvey Rim & Wheel Company, Inc., Buffalo, N. Y. Filed Aug. 9, 1920. Serial No. 402,079. 1 Claim. (Cl. 301—22.)



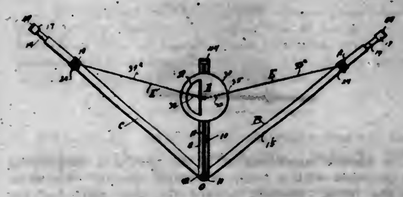
In a structure of the character described, a fixed rim provided with an outwardly projecting flange adapted to receive one edge of a demountable rim, a locking ring arranged to rest on the fixed rim on the opposite side thereof from the flange, the contacting faces of said rim and ring being beveled, lugs on the fixed rim adjacent the beveled edge thereof, and bolts through the ring, lugs and the rim flange to force the locking ring into frictional and wedging engagement with the fixed rim.

1,399,962. VALVE-CLEANER. DANIEL D. HENDERSON, Houston, Tex., assignor of one-half to William R. Drexel, Houston, Tex. Filed Feb. 28, 1921. Serial No. 448,719. 7 Claims. (Cl. 81—3.)



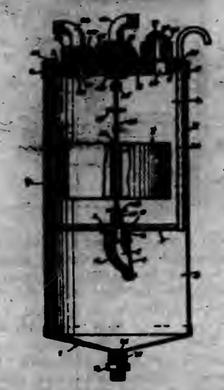
4. In combination, a casing adapted to fit over a valve stem, means for anchoring the casing securely in place, a plunger adapted to reciprocate within the casing, said casing and plunger having alined slots to receive the rocker arm which actuates the valve, a projection carried by said plunger and rotatable member provided with actuating means which successively contact with and release said projection as said member is rotated, whereby the valve is opened and released in quick succession.

1,399,963. TELEGONIOMETER. WILLIAM L. HOGG, Denver, Colo. Filed Mar. 20, 1920. Serial No. 367,251. 12 Claims. (Cl. 33—75.)



1. An angle measuring and indicating device of the character described comprising three arms pivoted to each other at one of their extremities for independent and relative movement, a protractor slidingly mounted on one of said arms, slides slidably carried on the other arms, and radius elements connected to the center of the protractor and to said slides, said radius elements being mounted for circular movement around the axis of the protractor and permitting the longitudinal movement of the slides on the respective arms.

1,399,964. FEEDING DEVICE FOR LIQUID FUEL. RUSSELL C. HUFF, Eldorado, Kans. Filed Nov. 27, 1920. Serial No. 426,870. 1 Claim. (Cl. 158—36.)



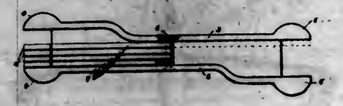
A device of the character described comprising vertically spaced compartments having an intercommunicating port, the upper compartment being provided with a fuel inlet and with a vacuum connection, the lower compartment being in communication with the atmosphere above the liquid level therein and also having a discharge in its lower portion, a vertically movable stem within the upper compartment provided with a valve for controlling the vacuum connection, said stem being provided with longitudinally spaced stops, a float within the upper compartment and coacting with the stops carried by the stem, said float being positioned between said stops, a check valve for closing the intercommunicating port of the compartments, such check valve closing upon the creation of a partial vacuum within the upper compartment, and a sleeve arranged in the upper compartment, said sleeve being a substantial continuity of the intercommunicating port and terminating above the bottom of the upper compartment, the lower stop of the stem contacting with the upper end of the sleeve for limiting the opening movement of the valve.

1,399,965. RAT-TRAP. ROBERT FRANKLIN KENT, Fannettsburg, Pa. Filed May 21, 1920. Serial No. 383,071. 10 Claims. (Cl. 43—73.)



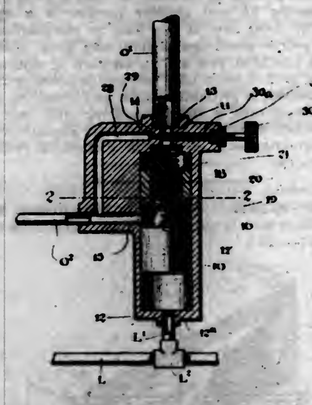
1. An animal trap comprising, a frame having a runway provided therein, a cage within the runway having one end thereof normally open, a movable platform within the runway, a door mounted within the frame and controlling the open end of said cage, a follower movable through the runway and in the direction of said door, and mechanism controllable by said platform for moving the follower in the direction of the door, elevating the door to open position, and returning the follower to its normal potion, and then moving said door to closed position as said follower reaches its normal position.

1,399,966. WRENCH. CHARLES W. KING, Memphis, Tenn. Filed July 11, 1919. Serial No. 310,269. 1 Claim. (Cl. 81—185.)



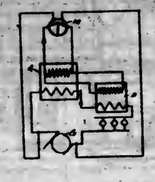
A wrench having a longitudinally recessed handle terminating in relatively off-set pairs of differently spaced jaws at its ends, and filler strips hinged in the hollow of the handle and movable into position between either pair of jaws.

1,399,967. AUTOMATIC FUEL CUT-OFF. EDGAR STEDMAN KING, Osgood, Ind. Filed Oct. 8, 1920. Serial No. 415,684. 10 Claims. (Cl. 123—196.)



1. In a device of the character described, in combination with an internal combustion engine having fuel supply and a lubricating system in which the lubricant is circulated under pressure, an automatic fuel cut-off incorporated in the fuel supply and controlled by the pressure of the lubricant and consisting of a cylinder having its upper end in communication with the fuel supply and having a lateral discharge outlet for the fuel intermediate its ends and having its lower end in communication with the lubricating system, a piston slidably mounted in said cylinder having a lower solid head exposed to the pressure of the lubricating system, an upper hollow head having its upper end open, said piston being provided intermediate the upper and lower heads with an annular groove in its periphery and a plurality of openings extending from the interior of the hollow head to the annular groove, a coil spring arranged in the upper end of the cylinder and engaging the upper head of the piston whereby the normal lubricant pressure when the engine is running balances the coil spring to aline the annular groove with the lateral discharge outlet and permit a free flow of fuel, a bypass around said cylinder for starting the engine, and a needle valve controlling said bypass.

1,399,968. ELECTRICAL MEASURING DEVICE. OTTO A. KNOFF, Oakland, Calif. Filed Mar. 2, 1917. Serial No. 151,695. 6 Claims. (Cl. 171—119.)



6. In an instrument transformer for transforming one of the characteristics of a circuit so that an instrument of comparatively small size may be used with the circuit, a main transformer having a primary coil adapted to be connected to the circuit and a secondary coil adapted to be connected to an instrument, and an auxiliary transformer comprising a pair of coils in mutual inductive relation, one of the pair of coils being adapted to be energized in accordance with that characteristic of the circuit which is reduced by the instrument transformer, and the other connected so as to buck the effect of the primary coil of the main transformer, the two transformers being so constructed that the phase angle errors of the two transformers have substantially the same relative values as the ratios of transformation, whereby the error due to the shift in phase is neutralized.

1,399,969. COMBINATION HANDWHEEL AND FACE-PLATE FOR LATHES. ARMEN S. KURKJIAN, Grand Rapids, Mich, assignor to Oliver Machinery Company, Grand Rapids, Mich., a Corporation of Michigan. Filed July 24, 1918. Serial No. 246,492. 2 Claims. (Cl. 142—55.)

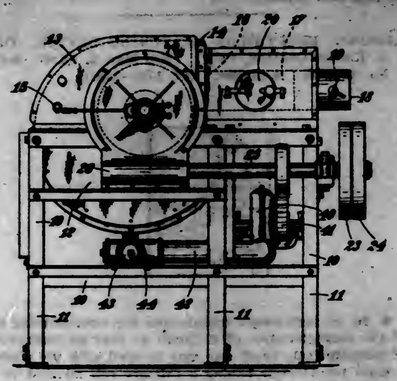


1. A combined hand wheel and face plate for lathes, comprising a central boss, a web extending therefrom, having a flat outer face against which work to be turned on the lathe may be secured and an outer annular heavy rim of curved outline, the surface of said rim joining with and curving away from said flat outer face of the hand wheel and face plate, substantially as described.

1,399,970. FURNACE. CHARLES JOSHUA LANE, London, England, assignor to Cyril Frank Elwell, London, E. C. 1, England. Filed Aug. 6, 1920. Serial No. 401,769. 2 Claims. (Cl. 91—12.5.)

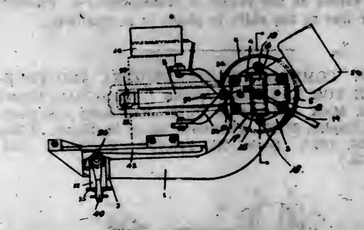
1. In a furnace for heat-treating material, the combination of a substantially cylindrical combustion chamber whereof the length is greater than the diameter, a hinged cover extending throughout the length of said chamber on the upper part thereof, a plurality of twyers spaced

apart in a line along the lower part of said combustion chamber, a closed rotatable drum supported substantially



within the upper portion of said combustion chamber and means outside said combustion chamber adapted to be coupled to said drum to rotate it.

1,399,971. CUTTER-BORING ARM. Alphonse Joseph Lavoie, Montreal, Quebec, Canada. Filed July 26, 1918. Serial No. 246,890. 4 Claims. (Cl. 77—1.)



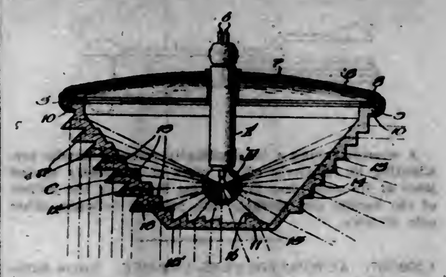
1. In a device of the class described, a reciprocating member, a pivoted base thereon, a tool carrying member rigidly held by said base, and a guide arm extending from the base in the same direction as the tool carrying member and a guide for engagement by the guide arm for swinging the base and therewith the tool carrying member.

1,399,972. CAR BRAKE OR STOP. Caleb Liddicoat, Albia, Iowa. Filed Feb. 11, 1920. Serial No. 357,801. 8 Claims. (Cl. 188—62.)



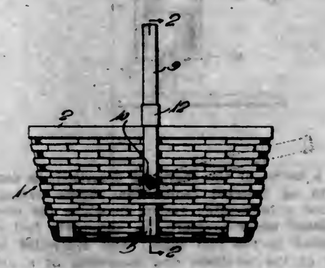
1. A braking device of the character described comprising a lower supporting rail, an upper braking rail, links pivotally connecting the two rails, a counterweight urging the braking rail away from the supporting rail, and manually operable means for shifting the braking rail toward the supporting rail and including an actuating arm pivotally connected to the supporting rail and the braking rail and extending upward beyond the braking rail, a lever pivotally connected to the upper end of said arm, a releasably retainable device, and connections leading from said last named lever to the retaining device whereby the lever may be shifted to cause the braking rail to move toward the supporting rail.

1,399,973. HEADLIGHT. Alexander S. Limpert, Pittsburgh, Pa. Filed Nov. 8, 1919. Serial No. 336,892. 5 Claims. (Cl. 240—41.)



3. A headlight lens comprising an annular attaching portion and a main light-refracting body portion converging forwardly of said annular portion in a direction toward the focal axis of the lens, in combination with a light source positioned within said body portion in line with the focal axis and in advance of said annular attaching portion, said body portion provided with variangled concentric prismatic ridges and reflecting prisms, for refracting rays of light emanating from said source in a forward direction, and with equi-angled refracting ridges refracting rays of light in a direction inclined to the focal axis.

1,399,974. BASKET. William B. Loewenberg, Marion, Ind. Filed Mar. 5, 1921. Serial No. 449,820. 6 Claims. (Cl. 217—125.)

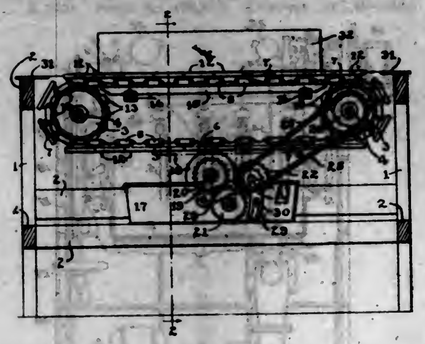


1. The combination with a basket, of a pair of reinforcing strips secured to the sides of said basket and extending above the same, an arched handle pivoted to said reinforcing strips at points spaced downwardly from their upper ends, and means for connecting the handle with said projecting strip ends to hold it in upright position.

1,399,975. GLUING-MACHINE. Gregor McConnell, Grand Rapids, Mich. Filed Dec. 7, 1920. Serial No. 428,864. 7 Claims. (Cl. 91—24.)

6. A gluing machine comprising a chain having glue-spreading links and connecting links, sprockets over

which said chain runs having shoulders near their peripheries which engage and support said connecting



links and means for applying glue to said glue-spreading links.

1,399,976. METHOD OF MANUFACTURING FIBER PRODUCTS. George James Manson, Toronto, Ontario, Canada. Continuation of application Serial No. 32,416, filed June 5, 1915. This application filed Mar. 15, 1919. Serial No. 282,780. 6 Claims. (Cl. 92—1.)

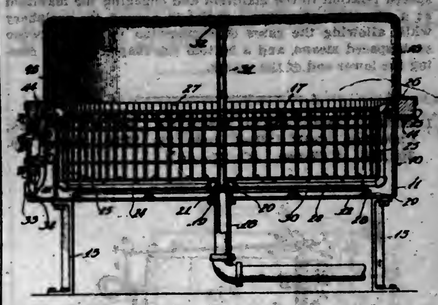
1. The herein described process of manufacturing a fiber product which comprises, first chipping saw mill waste, then grinding the raw chipped wood with water between closely spaced surfaces having a movement relative to each other, such surfaces being sufficiently far apart to permit at the narrowest point the presence of a plurality of fiber bundles therebetween, whereby a rolling separation is effected.

1,399,977. MOLD. Alfred J. Mabie, Alameda, Calif. Filed June 12, 1920. Serial No. 388,530. 5 Claims. (Cl. 154—27.)

1. A mold comprising bottom and end pieces, a top piece on said end pieces, tie rods anchored in said bottom-and-end structure and passing through said top piece, and means interposed between the ends of said tie rods and said top piece for lifting the top piece from and clamping it to the rest of the mold.

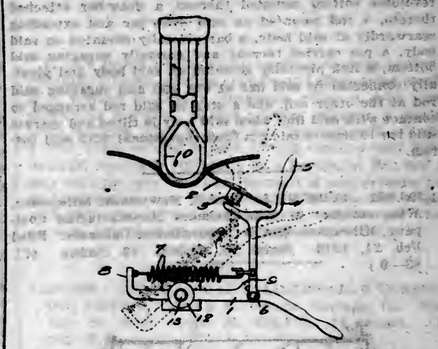
1,399,978. DISHWASHER. Thomas H. Monaghan, Chicago, Ill. Filed Oct. 26, 1920. Serial No. 419,375. 12 Claims. (Cl. 141—6.)

7. A dish washer comprising a cylindrical casing having a discharge opening, a water supply pipe, a rotary water sprayer element having nozzles directed toward said casing, a dish tray supported by said rotary water sprayer element adjacent the bottom of the casing, a valve for controlling said discharge opening, and means controlled by the rise of water in said casing for opening said valve



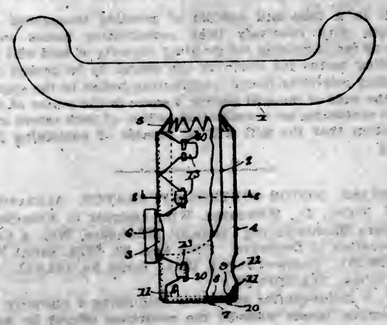
to permit of the escape of accumulated water while said dish tray is being rotated.

1,399,979. TIRE-BUILDING MACHINE. Frederic C. Morton, New Haven, Conn. Filed Oct. 10, 1918. Serial No. 257,593. 6 Claims. (Cl. 154—10.)



3. A device for shaping tire fabric on a tire forming core, and a mounting for said device said mounting being pivoted at a point fixed in relation to the core and invertible upon its pivot to position the device upon either side of the core as desired.

1,399,980. MANIFOLD-HEATER. August Q. Mueller and Walter H. Koeller, Milwaukee, Wis. Filed Dec. 29, 1920. Serial No. 433,789. 6 Claims. (Cl. 263—5.)



1. In combination, an internal combustion engine manifold, a heater therefor, comprising a casing encircling the

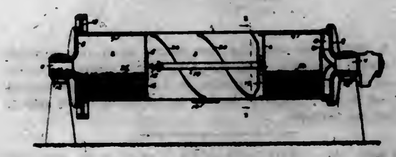
vertical portion of the manifold and spaced therefrom, resilient means for supporting the upper end of the heater in spaced relation to the manifold and engaging the manifold at a plurality of points completely around its periphery while allowing the gases of combustion to pass between such spaced means, and a bottom cup-shaped portion closing the lower end of the casing.

1,399,981. GAP-CLOSING MACHINE. NIELS A. NIELSEN, Cupertino, Calif. Filed June 28, 1920. Serial No. 392,215. 2 Claims. (Cl. 37—40.)



1. A gap closing machine comprising a scraper body, a revoluble bottom mounted thereon, a draw-bar attached thereto, a rod mounted on said draw-bar and extending rearwardly of said body, a bar pivotally mounted on said body, a pin carried thereby and normally engaging said bottom, a link pivotally mounted on said body and pivotally connected to said bar at one end and engaging said rod at the other end, and a step on said rod arranged to contact with said link when said body is tilted and operate said bar to remove said pin from engagement with said bottom.

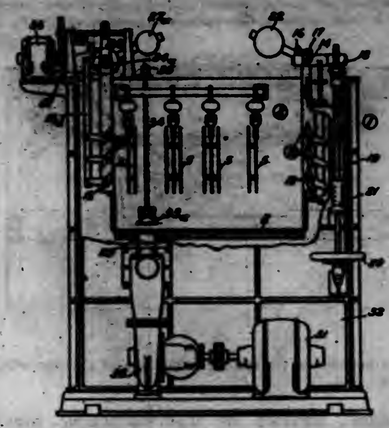
1,399,982. TUBE-MILL. RAY C. NEWHOUSE, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Feb. 21, 1916. Serial No. 80,068. 13 Claims. (Cl. 83—9.)



1. In a tube mill capable of grinding throughout its length with relatively light comminuting bodies only, means for increasing the grinding capacity of said mill including means for confining the charge to be ground including relatively heavy comminuting bodies to the spaces in the ends of the mill leaving a space in the center of the mill containing no comminuting bodies, of such extent and position that the mill will be capable of sustaining the load.

1,399,983. MOTOR-CONTROL APPARATUS. ALEXANDER J. NICHT, Jr., Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Aug. 23, 1919. Serial No. 320,287. Renewed July 1, 1921. Serial No. 481,932. 20 Claims. (Cl. 219—57.)

1. A motor-control apparatus comprising a plurality of rheostats, means whereby the resistance offered by said rheostats may be brought to and maintained at predetermined like values or different values, said means operable independently of said first mentioned means whereby the



resistances may be simultaneously varied keeping the relative proportions substantially the same.

1,399,984. FURNACE-DAMPER REGULATOR. THOMAS OLINGER and JOHN L. DE GLOPPER, Holland, Mich., assignors to Federal Stamping Company, Holland, Mich., a Corporation of Michigan. Filed Dec. 7, 1920. Serial No. 428,860. 11 Claims. (Cl. 74—89.)



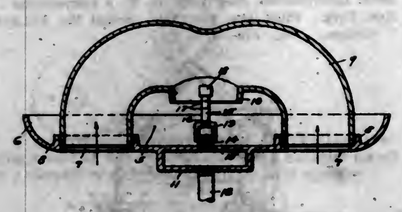
1. In a furnace regulator, an outer member having a front face, rearwardly extending annular side and flange turned from the rear edge of said side, said member being formed centrally of its face with a hub pressed rearwardly therefrom, a second chain actuating member formed with a front rearwardly dished face with a central opening therethrough, an outwardly projecting head at its edges, a rearwardly extending annular side and an outturned flange located within the first member with the hub passing through said opening, said flange on the second member being partly cut away at its upper portion with a chain attaching tang left between the portions cut away, and an operating handle having an opening in its lower end passed through the upper portions of said sides of the members and engaged with the hub, said hub passing through the opening in the handle and having its end pressed outwardly to secure the parts together with the dished face of the second member forced to substantially parallel relation with the face of the outer member, said side of the outer member at its upper portion being slotted substantially half of its length where the operating handle passes therethrough and having an opening for the passage of a chain at a point below each end of the slot, substantially as described.

1,399,985. FURNACE-REGISTER. THOMAS OLINGER, Holland, Mich., assignor to Federal Stamping Company, Holland, Mich., a Corporation of Michigan. Filed Jan. 3, 1921. Serial No. 434,415. 8 Claims. (Cl. 98—54.)



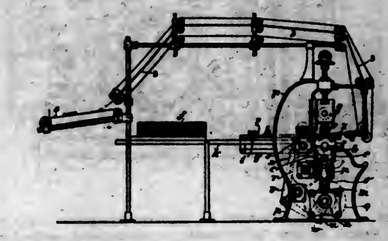
8. In combination, a sheet metal plate formed with an open grating set in short distances from its edges, and being provided at the upper part of the grating with a horizontal rib having a longitudinal recess in its rear side, a sheet metal closure plate formed at its upper edge with a rolled bead seating in said recess, tangs integral with the rib passing rearwardly through the closure plate and bent upwardly around the bead thereof, a sheet metal operating handle formed with spaced apart projections at its lower end extending through openings in the closure plate, said handle extending upwardly through the grating, a tongue struck rearwardly from the handle a short distance below the connection of the closure plate to the first plate and passing through an opening in the closure plate, a leaf spring located against the rear side of the closure plate, said tongue passing therethrough, and means at the end of the tongue for holding the spring against the closure plate, substantially as described.

1,399,986. OIL-BURNER. CYRUS L. PEMBERTON, Fairmount, Ind. Filed May 14, 1921. Serial No. 469,638. 3 Claims. (Cl. 158—53.)



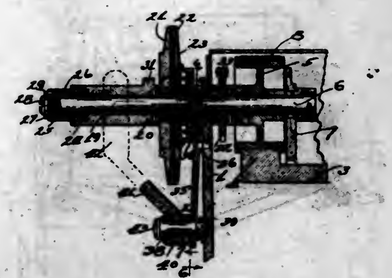
1. In an oil burner, a main receptacle having air inlet openings formed in the bottom thereof, an inverted approximately U-shaped air supply conduit having its ends in communication with the inlet openings and provided with a downwardly discharging tubular outlet, a main generating chamber formed upon and arranged beneath the main receptacle and located between said air inlet openings, means to supply oil or the like into the main chamber, a sub generating chamber arranged near and above the main chamber within the main receptacle and having communication therewith, and a tubular burner element connected with the sub generating chamber and surrounded by the tubular air outlet.

1,399,987. ROTARY PHOTOGRAVURE-PRINTING MACHINE. WILLIAM PICKUP, Pendleton, England. Filed Oct. 25, 1919. Serial No. 333,148. 8 Claims. (Cl. 101—153.)



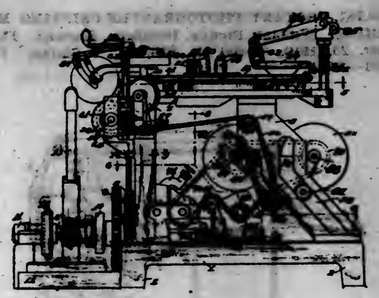
1. In a rotary photogravure printing machine having a vertically slidable printing cylinder and above same mounted a vertical stationary impression roller, a spur wheel secured on the shaft of said printing cylinder, a driving shaft mounted below in a vertical line with said cylinder, a spur wheel secured to said driving shaft, a spur wheel mounted vertically stationary in a horisontal line and in gear with the spur wheel on the shaft of said cylinder and an intermediate spur wheel mounted between and in gear with said vertical stationary wheel in and the spur wheel on said driving shaft, for the purpose specified.

1,399,988. AUTOMATICALLY-ADJUSTABLE TENSIONING DEVICE. FRANK M. PIERCE, Chicago, Ill. Filed Apr. 29, 1920. Serial No. 377,583. 16 Claims. (Cl. 242—6.)



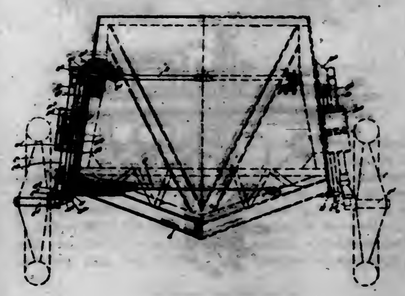
1. A winding device comprising a shaft, a reel rotatably mounted thereon, a friction plate on the reel, a friction plate slidable but non-rotatable on the shaft adapted to engage said first friction plate, cam-controlled means for varying the frictional engagement of said plates, and a lever for automatically operating said cam controlled means.

1,399,[illegible]. [illegible]. [illegible] Chicago. Patented Dec. 13, 1921. Serial No. 488,[illegible]. 10 Claims. (Cl. 242—[illegible])



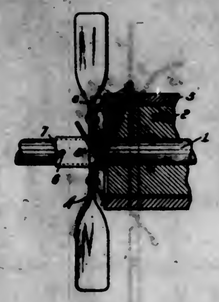
1. A wrapping machine comprising a frame, a rotatable shuttle thereon, means for rotatably supporting an article to be wrapped, and a slotted frame for guiding said supporting means, the upper portions of the slots in said frame being vertical and the lower portions thereof extending in an angular direction.

1,399,990. ALIGHTING OR LANDING GEAR FOR AIRCRAFT. Reginald Kreenhw Pierson and Thomas Smith Duncan, Westminster, London, England, assignors to Vickers Limited, Westminster, England, a British Company. Filed June 21, 1921. Serial No. 479,309. Carved out of application on which Patent No. 1,364,518 was granted Jan. 4, 1921, and filed after grant of patent. 11 Claims. (Cl. 244—2.)



1. In aircraft, the combination with a hull, of an inwardly inclined wheel carrying frames, operating means carried by each frame and engaging a pendent pin on said hull and means for imparting motion to said operating means to angularly move the frame.

1,399,991. SHORT-CIRCUITING BRUSH FOR ARMATURE COMMUTATORS. Edward J. Kennedy, Galena, Ohio. Filed Jan. 25, 1921. Serial No. 439,520. 7 Claims. (Cl. 172—279.)



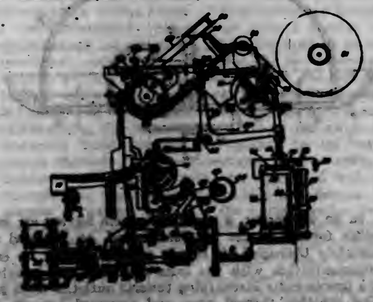
1. In an electric motor, a commutator, and means operated by fluid pressure generated by a running of the motor to short-circuit the commutator segments when the motor has attained a predetermined speed.

1,399,992. INDEXING-FIXTURE FOR MACHINE-TOOLS. Joseph A. Pelissoni, Allentown, Pa., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 4, 1920. Serial No. 421,770. 6 Claims. (Cl. 90—72.)



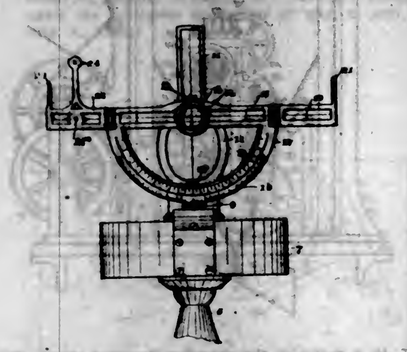
1. In combination with a reciprocating table and a fixed cutter, a fixture mounted on the table including a chuck for the work, an indexing wheel separate from the chuck and a pawl coöperating with the wheel and operated by movement of the table for indexing the work.

1,399,993. PRINTING-TELEGRAPH. Hasby Pfannenstiehl, East Orange, N. J., and Edward F. Watson, New York, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 23, 1919. Serial No. 272,615. 7 Claims. (Cl. 178—27.)



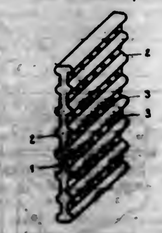
1. In a telegraph receiving printer, a paper platen, ribbon feeding mechanism, mechanism for rotating said platen for line spacing, selecting mechanism comprising a plurality of shifting magnets, permutation bars controlled thereby, an electromagnet energized upon the positioning of said permutation bars in a predetermined manner, and bands responsive to the energization of said electromagnet for operating said ribbon feeding and line spacing mechanisms simultaneously.

1,399,994. SURVEYOR'S COMPASS. Charles H. Phoenix, Bellingham, Wash. Filed Mar. 30, 1921. Serial No. 456,991. 3 Claims. (Cl. 33—69.)



1. In a surveyor's compass in combination, a compass case; a compass mounted in said case; a front sight standard fastened to said case; a rear sight standard fastened to said case; a transverse sight arm pivotally mounted for rotation on said rear standard; a graduated arc fastened to said arm; and verniers on said rear standard readable with the scales on said arc.

1,399,995. NEGATIVE PLATE FOR ELECTRIC ACCUMULATORS. Adolfo Pouchain, Turin, Italy. Filed Sept. 18, 1919. Serial No. 324,656. 3 Claims. (Cl. 204—20.)

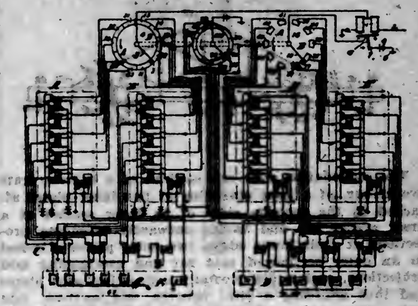


1. A negative electrode for electric accumulators, comprising a core of non-metallic conducting material coated with a metallic layer of zinc associated with mercury.

1,399,996. NEGATIVE PLATE FOR ELECTRIC BATTERIES. Adolfo Pouchain, Turin, Italy. Original application filed Sept. 18, 1919, Serial No. 324,657. Divided and this application filed Feb. 11, 1920. Serial No. 357,897. 2 Claims. (Cl. 204—38.)

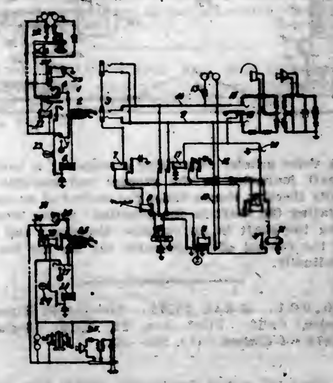
1. A negative electrode for electric batteries consisting of a zinc plate wrapped in a sheet of pressed paper which is kept adherent to said plate by a layer of a fatty substance.

2,399,997. TELEGRAPH SYSTEM. Paul M. Hawes, Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, N. Y., a Corporation of New York. Filed Jan. 2, 1919. Serial No. 270,169. 14 Claims. (Cl. 178—33.)



1. In a telegraph system, in combination with a line, a selecting mechanism, a plurality of sets of relays between said mechanism and said line, a plurality of switching relays between said mechanism and said sets of relays, and means for energizing and deenergizing the switching relays successively to connect said selecting mechanism with said sets of relays.

1,399,998. TELEPHONE SYSTEM. Arthur Raynsford, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 25, 1919. Serial No. 340,484. 4 Claims. (Cl. 179—51.)



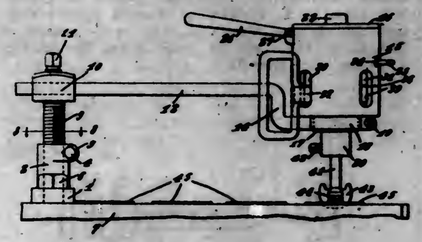
1. In a telephone system the combination with a link circuit, of a plurality of different types of cord circuits for connection therewith, a signaling device and a relay responsive to a particular variety of current for operating said signaling device associated with each cord circuit, a telephone set, means for connecting said telephone set to said link circuit, a plurality of sources of current, and means operated in response to the disconnection of said telephone set from said link circuit to connect one of said sources of current to said link circuit to operate the signaling device of the connected cord circuit.

1,399,999. DRAFT-EVENER FOR HARROWS. Jessen Alfred Rehms, Elk Horn, Iowa, assignor of one-half to Hans Christian Hansen, Elk Horn, Iowa. Filed July 9, 1920. Serial No. 394,999. 1 Claim. (Cl. 55—84.)



The combination with two sections of a harrow draft evener bar, of a joint consisting of two inner plates attached to the opposite sides of an inner section of a draft evener bar and having outwardly extending projections at their lower edges, two outer plates attached to an outer section of said bar and overlapping said projections, and a pin pivotally connecting said plates and thus affording a joint between said sections, said outer plates and said outer section of said bar having straight vertical shoulders adapted to rest on the said inner plates and said inner draft bar section to support said outer section in an upright position when said outer section is turned up on said pin.

1,400,000. VALVE-GRINDER. Fidèle F. Richard, Moncton, New Brunswick, Canada. Filed Feb. 9, 1921. Serial No. 443,570. 6 Claims. (Cl. 51—29.)



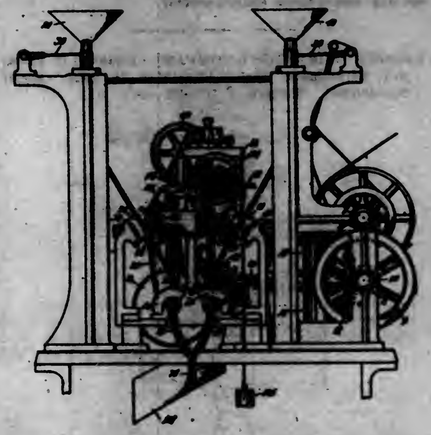
1. A valve grinder comprising a support; a tool-carrying shaft journaled in the support and movable longitudinally therein; means under the control of an operator for rotating the shaft in one direction; spring means for rotating the shaft in an opposite direction; and means under the control of an operator for moving the shaft longitudinally.

1,400,001. X-RAY TUBE. Thomas B. Rider, Los Angeles, Calif. Filed Jan. 22, 1919. Serial No. 272,473. 4 Claims. (Cl. 250—35.)



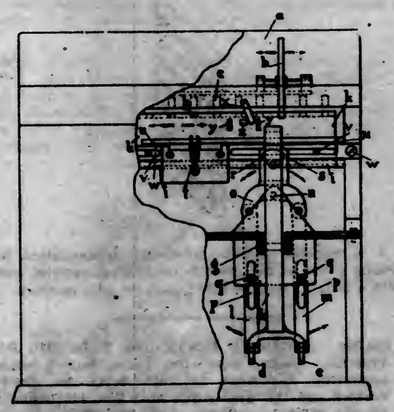
1. In an X-ray tube in combination with the cathode in such tube having its face disposed eccentrically on its supporting body on a centrally disposed stem in the tube, operating means disposed on the stem for a sliding movement, and means operatively engaged with the operating means for turning the cathode on the stem by such sliding movement.

1,400,002. MACHINE FOR CARDING SNAP-FASTENERS. Benjamin L. Benton, New York, N. Y., assignor to American Snap Fastener Company, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 27, 1919. Serial No. 333,783. 14 Claims. (Cl. 218—18.)



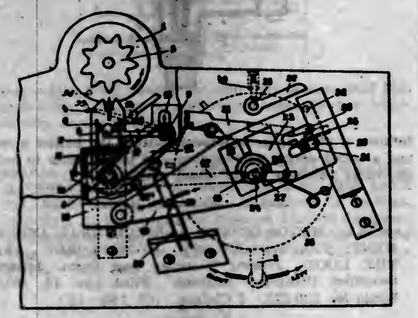
1. In a device of the character described, means for holding a set of fastener elements, means for holding a set of coöperating fastener elements, and means for subjecting one of said holding means to suction, whereby air pressure is effective in aiding the holding means to hold the several fastener elements.

1,400,003. CALCULATING-MACHINE. Carl Schallbr, Brunswick, Germany, assignor to Grimme, Natalis & Co., Commanditgesellschaft auf Actien, Brunswick, Germany, a Corporation of Germany. Filed June 19, 1916. Serial No. 104,537. 8 Claims. (Cl. 235—63.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a calculating machine, in combination with a sliding carriage, means for automatically shifting said carriage stepwise in either direction, said means comprising an actuator for causing the shift in one direction, a second actuator for causing the shift in a direction opposite to the direction caused by said first actuator, and oscillating means for moving the carriage and loosely engaged and alternately operated by the said actuators for moving the carriage in different directions.

1,400,004. CALCULATING-MACHINE. Carl Schallbr, Brunswick, Germany, assignor to Grimme, Natalis & Co., Commanditgesellschaft auf Actien, Brunswick, Germany, a Corporation of Germany. Filed July 10, 1916. Serial No. 108,448. 19 Claims. (Cl. 235—75.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



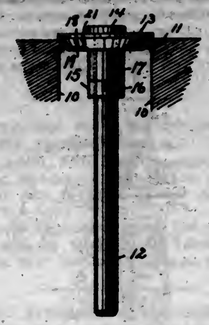
18. In a calculating machine, the combination of a revoluble main actuator; a revolution-counting mechanism comprising a plurality of counting pinions, one for each denominational order; a zero-setting device in conjunction with said revolution-counting mechanism; a plurality of locking members, one for each counting pinion and normally engaged therewith; a releasing member common to all of said locking members; a cam arranged to directly operate said releasing member when said main actuator is operated; and means connected to said cam for operating said releasing member when said zero-setting device is operated.

1,400,005. HOLDER FOR THE GLOWERS OF TUNGSTEN LAMPS. Otto Schallbr, Südende, near Berlin, Germany, assignor to Firm: Julius Pintsch Akt.-Ges., Berlin, Germany. Filed Oct. 27, 1916. Serial No. 128,100. 1 Claim. (Cl. 176—39.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

A holder for metallic filament lamps of a low specific consumption of energy, thereby characterised that it consists of tungsten with an addition of 1–4% of thorium oxid, substantially as set forth and for the purpose specified.

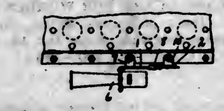
1,400,006. VALVE FOR INTERNAL-COMBUSTION ENGINES. John D. Schwenas, Elizabeth, N. J. Filed Aug. 25, 1920. Serial No. 405,960. 1 Claim. (Cl. 123—188.)

A valve for internal combustion engines comprising a stem, a valve head rotatably secured on the end of the stem, the valve head having a tapered edge and adapted to rest on a tapered valve seat, said valve head having an annular groove on its bottom face adjacent said sleeve, and having obliquely arranged grooves extending from said annular groove to the tapered edge, whereby fluid under pressure traverses the grooves to give rotative



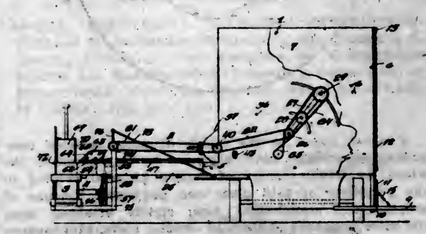
movement to the head and to direct an oblique blast on the tapered face of the valve seat.

1,400,007. BRACKET. William Sparks, Jackson, Mich., assignor to The Sparks-Withington Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 18, 1921. Serial No. 453,233. 5 Claims. (Cl. 248—20.)



2. A bracket comprising two parts adjustable longitudinally with respect to each other, means for holding said parts in various positions of adjustment, each of said parts formed with a laterally extending lug, and one of said parts formed at one end with a horn-attaching flange.

1,400,008. SELF-FEEDER FOR HAY-PRESSES AND THRESHERS. Edwin O. Stanclift, Bakersfield, Calif. Filed Sept. 22, 1919. Serial No. 325,362. 31 Claims. (Cl. 100—25.)

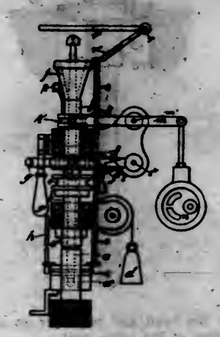


1. A self feeder, comprising means for receiving the material, means for rearwarding it, and means for subdividing the material, comprising material stopping means with an associated movable member for pushing the divided section out.

1,400,009. COP-WINDING ATTACHMENT FOR SPINNING-FRAMES. Keith Stewart, Calcutta, British India. Filed June 21, 1920. Serial No. 390,566. 4 Claims. (Cl. 242—30.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

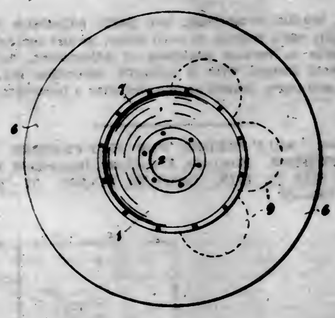
1. A cop winding attachment for spinning frames characterised by a rotating thread twisting and cop

building some upon a sleeve within which is the spindle of ordinary construction, driving means for said sleeve including a loose pulley and a vertically sliding clutch



adapted to be brought into and held in operative engagement one with the other, and engaging and disengaging means for said pulley and clutch.

1,400,010. SPLASH-GUARD FOR WHEELS OF MOTOR-VEHICLES. JOHN HARDACRE STIRK, Gravelly Hill, near Birmingham, England. Filed Jan. 19, 1920. Serial No. 352,485. 1 Claim. (Cl. 280—156.)



A splash guard for the wheels of motor vehicles, comprising an annular plate arranged to be secured to the wheel, an annular sheet of flexible material secured to the periphery of said plate and projecting tongues of substantially semicircular form rigidly attached upon the outer periphery of the said annular plate, said tongues being arranged to bear flatwise against the said annular sheet of flexible material to lend support to the same.

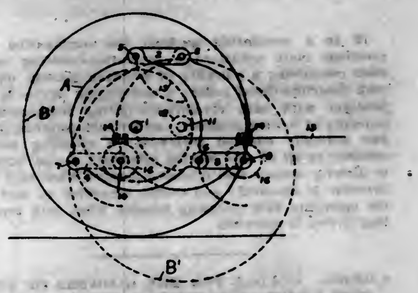
1,400,011. CHECK-VALVE. LINNAEUS E. BAKER, Fort Wayne, Ind., assignor to Wayne Oil Tank & Pump Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Sept. 18, 1917. Serial No. 191,926. 1 Claim. (Cl. 251—146.)

In an improved check valve, the combination of a casing provided with a valve seat, a valve adapted to close on said seat, said valve having a hollow stem forming an axially extending socket provided near the base of said socket with a laterally extending vent passing through said stem, and a guide fixed to the casing and



forming a plunger to reciprocate within the hollow stem, and a coiled spring surrounding said hollow stem to hold the valve normally in its closed position.

1,400,012. MOTOR-DRIVEN AGRICULTURAL IMPLEMENT, TRACTION-ENGINE, MOTOR-LORRY, AND THE LIKE. JOSEPH BAMFORD and CYRIL JOSEPH BAMFORD, Uttoxeter, England. Filed Apr. 18, 1918. Serial No. 229,375. 7 Claims. (Cl. 180—41.)

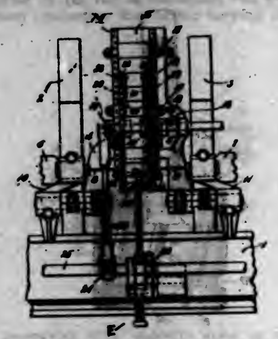


1. A device of the class described, comprising a traction wheel, a stub axle on the wheel, a disk supported on the stub axle, a driving shaft having a direct driving connection with the wheel, a plurality of links pivotally connected to said disk at one end and having their other ends pivotally mounted at fixed distances from the center of said shaft, and means for displacing said disk in relation to said shaft, said links serving to maintain a constant distance between the axial center of the driving shaft and the wheel.

1,400,013. AUTOMATIC TURNING-MACHINE. FRANK H. BANCROFT, Gardner, Mass., assignor to P. Derby & Company, Gardner, Mass., a Corporation of Massachusetts. Filed Oct. 21, 1918. Serial No. 258,103. 6 Claims. (Cl. 144—46.)

1. In a turning machine having a receiver to which pieces of stock are successively supplied prior to being fed to the spindles, the combination with said receiver of means for shaping the end of each piece of stock

to interlit with a spindle, and reciprocatory means for automatically clamping each piece of stock in the re-



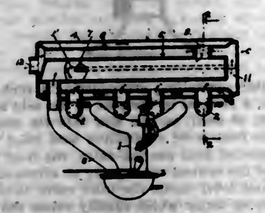
ceiver while being shaped by said first means, said last means being arranged to reciprocate approximately longitudinally of the magazine.

1,400,014. KEY FOR FASTENING GEAR-WHEELS, RACEWAYS FOR BALL-BEARINGS, AND THE LIKE TO ROTATABLE SHAFTS. CHARLES C. BARNES, Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 30, 1920. Serial No. 427,321. 4 Claims. (Cl. 287—52.)



1. A friction key comprising an elliptical resilient link opened near one end of its major axis to divide said link into two arms.

1,400,015. AIR-HEATER FOR INTERNAL-COMBUSTION ENGINES. BENJAMIN B. BLOCK, Los Angeles, Calif., assignor of one-half to Mary Avery Scherfee, Los Angeles, Calif. Filed Sept. 9, 1918. Serial No. 253,210. 1 Claim. (Cl. 123—122.)



An air pre-heater for internal combustion engines comprising an outer casing, an intermediate casing within the outer casing, partitions between the outer and intermediate casings, dividing the space between said casings into first and second air heating chambers, an inner casing within the intermediate casing and constituting a superheating chamber, and dividing the space within the intermediate chamber into first and second exhaust-receiving chambers, said first air heating chamber having an air inlet at one end and connecting at its other end with the second air heating chamber, and said superheating chamber having an outlet at one end and connecting at its other end with the second heating chamber at the end thereof which is remote from its point of communication with the first air heating chamber, said first exhaust-receiving chamber, having inlet means for receiving exhaust gases and the second exhaust-receiving chamber having an outlet at one end and communicating at its other end with the first exhaust-receiving chamber.

1,400,016. PROCESS FOR PRODUCING WOOL-LIKE EFFECTS ON COTTON FABRICS. GUSTAV ADOLF BOSSHARD, Arbon, Switzerland, assignor to the Firm A.-G. Seeriet, Bleicherei, Filiale Arbon, Arbon, Switzerland. Filed July 9, 1920. Serial No. 394,979. 3 Claims. (Cl. 8—20.)

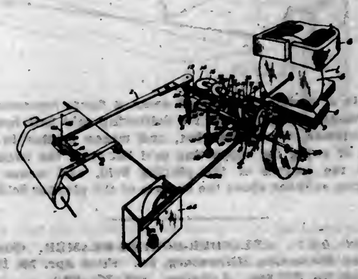
1. In a process for producing wool-like effects on cotton fabrics, the step of treating the fabrics with nitro-sulfuric acid of 48.3° Bé. cooled down to at least 0° C.

1,400,017. AUTOMOBILE ORNAMENT. JAMES R. BOWNE, Dallas, Tex., assignor to Adolphus Auto Rent Company, Dallas, Tex., a Corporation of Texas. Filed Sept. 18, 1920. Serial No. 411,115. 1 Claim. (Cl. 240—7.)



In an automobile display device, the combination of a base having a depending screw threaded element for attachment to a radiator cap, an annular upstanding marginal flange on the base, an electric lamp socket in the center of the base, a translucent cylinder fitting on the base snugly within the flange, a cap having a countersunk annular recess in its underside snugly receiving the upper end of the cylinder, said cylinder having a symbol on its surface, a rod within the cylinder having its ends engaged in the base and cap for clamping the cylinder therebetween, and a figure mounted on the cap, the base and cap extending radially beyond the cylinder.

1,400,018. ELECTRICAL MEASURING INSTRUMENT. WILLIAM M. BRADSHAW, Wilkinsburg, and CLARENCE A. BODDIE, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed June 18, 1917. Serial No. 174,450. 17 Claims. (Cl. 234—55.)



2. In a recording-measuring instrument, the combination with a measuring instrument, a recording device and

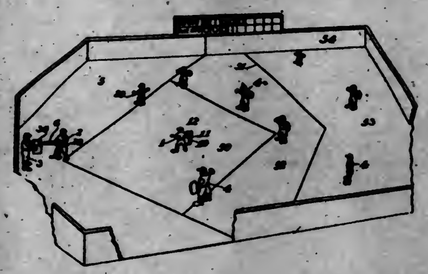
a recoiled sheet, of means for moving the recording device in the reverse of its natural direction of movement after each advance of the record sheet a predetermined distance in accordance with a previous indication of the recording device.

1,400,019. SPRING, PARTICULARLY FOR USE IN PERCUSSION-TOOLS. Maurice Louis Brandon, Stafford, England. Filed Nov. 2, 1920. Serial No. 421,405. 4 Claims. (Cl. 125—31.)



1. A resonator comprising a reciprocating mass suspended between liquid columns operating as springs so arranged and adjusted that a condition of resonance is established between the mass and the liquid springs substantially as specified.

1,400,020. MECHANICAL BASEBALL GAME. Gideon Edward Brown, Seattle, Wash. Filed Oct. 5, 1920. Serial No. 414,788. 11 Claims. (Cl. 46—61.)



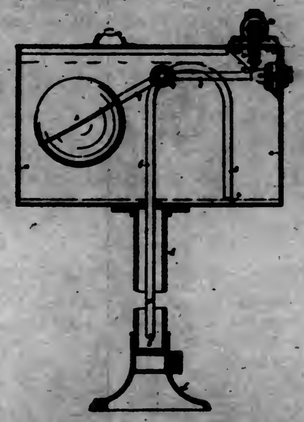
1. In a mechanical baseball game, a figure representing a batsman, a ball, means for delivering said ball toward the batsman, a weighted bat, and means flexible in the plane of swing for supporting said bat from the batsman above the surface of the playing field, and means for swinging said bat above the surface of the playing field.

1,400,021. CYLINDER-BORING REAMER. Gordon Mark Braubaker, Millersburg, Pa. Filed Apr. 10, 1920. Serial No. 372,846. 5 Claims. (Cl. 77—72.)

1. A reamer comprising a head having a clearance chamber opening through its forward portion, and provided with an annular series of longitudinally extending blades having their forward ends terminating in rear of said clearance chamber, and longitudinal oil grooves extending alongside said blades, said head further having channels leading from the forward ends of said grooves into said clearance chamber.



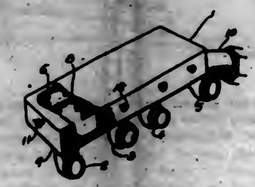
1,400,022. SIPHONIC CONTROLLING MEANS FOR VALVES. Edwin William Buckley, Manchester, England. Filed May 24, 1921. Serial No. 472,253. 1 Claim. (Cl. 137—145.)



In a siphonic controlling arrangement a tank, an inlet valve therein, a channel in the seat of the said inlet valve to give a drip or small stream flow into the siphon tank, an adjustable float lever controlling said inlet valve and a spring-controlled fluid control valve, the float lever and the spindle of the control valve being so arranged that the lift of the float lever opens the inlet valve thus allowing the rapid flow of water which rapidly raises the float and attached float lever to open the fluid control valve, the whole serving to give a rapid filling of the tank, actuation of the fluid control valve and siphonic discharge when water, through the small stream flow, has reached a predetermined height in the tank, substantially as described.

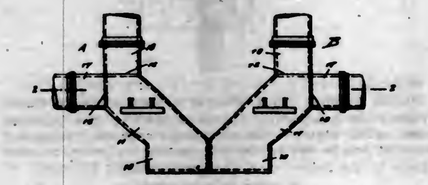
1,400,023. MANIFOLD-STOVE. James H. Carman, Harold F. Rossman, and John M. Rossman, Kansas City, Mo. Filed Dec. 28, 1919. Serial No. 347,478. 2 Claims. (Cl. 126—30.)

2. A heater for attachment to the exhaust of explosion engines consisting of a hollow casing having a tubular inlet to receive the products of combustion of the gas engine, said casing having an outlet port, heat conducting fins carried by the top of the casing and within the same, the heat conducting fins having varying areas pro-



gressively decreasing from opposite sides of the longitudinal center, outstanding pins carried by the side walls of the casing, and yielding utensil-engaging members cooperating with the pins to hold the utensils onto the top of the casing.

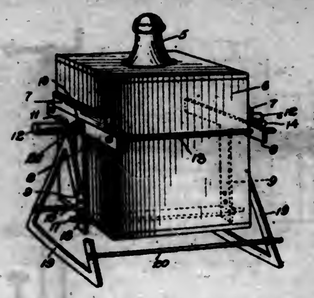
1,400,024. GAS-BURNER. Virginius Z. Caracristi, Bronxville, N. Y., assignor to The Gas Combustion Company, Pittsburgh, Pa. Filed Oct. 9, 1919. Serial No. 329,532. 4 Claims. (Cl. 158—109.)



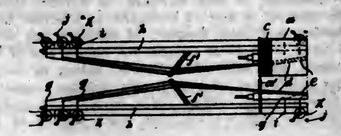
4. A gas burner comprising a body portion having a vertically disposed outlet and an inclined upwardly extending portion leading from the outlet, said vertically disposed outlet portion and said upwardly extending portion having therein longitudinally extending and closely spaced apart narrow and broad passages, and said upwardly extending portion having independent gas and air inlets with the gas inlet communicating with alternate passages and the air inlet communicating with intermediate passages, whereby gas and air may be delivered to the upwardly inclined portion at different velocity pressures and may be delivered from said outlet portion in adjacent thin films for promoting combustion of the gas, said outlet portion being slitted at its outer end in register with said passages and said slits being of less width than said passages whereby to effect the delivery of the sheets of gas and air in relatively fine films.

1,400,025. SUPPORT FOR CONTAINERS. James A. Carey, Pittsburgh, Pa. Filed Sept. 4, 1920. Serial No. 408,115. 6 Claims. (Cl. 248—58.)

1. A support for containers comprising horizontal end members, trunnions on said members, depending vertical portions on said end members rigidly connected therewith and in alinement with the trunnions, said end members having a series of openings therein, a cross member having means thereon for engaging in the openings for adjustably connecting the lower ends of the depending portions, and a supporting member having bearings therein for coöperating with the trunnions.

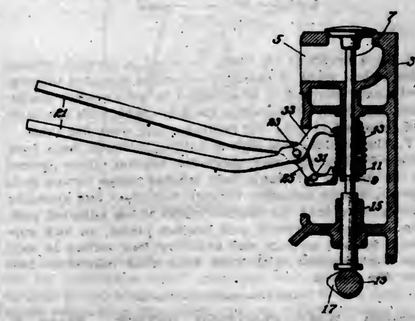


1,400,026. FRAME FOR DOUBLING YARNS. Fletcher Chadwick, Rochdale, England. Filed July 9, 1920. Serial No. 395,085. 2 Claims. (Cl. 28—34.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



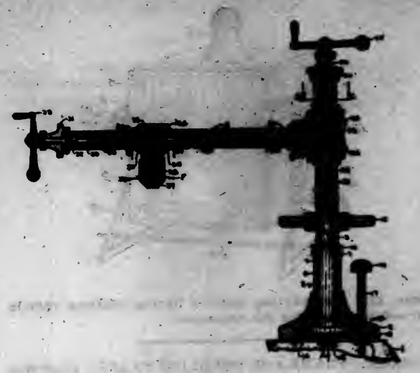
1. The combination with a warper's beam doubling frame, of a plurality of spindles, drawing rollers parallel with said beam, means for drawing off groups of threads vertically in tape form from said beam, and means for distributing said groups diagonally to the drawing rollers and thence to the spindles over the wider distance occupied by the spindles, while maintaining the groups in tape form.

1,400,027. VALVE-SPRING COMPRESSOR. Harry W. Coddington, Natick, Mass. Filed Nov. 5, 1920. Serial No. 422,039. 5 Claims. (Cl. 29—86.3.)



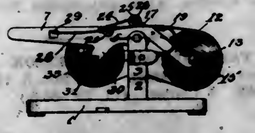
1. A tool for handling the spring and spring-supporting washer of a puppet valve, comprising a washer-engaging member, a member adapted to be thrust between the coils of the spring and having a groove to engage one of them, and means for causing the members to be moved toward each other whereby the spring may be held compressed and while so held removed or replaced.

1,400,000. DENTAL INSTRUMENT. Morton Gurney, New York, N. Y. Filed Apr. 8, 1920. Serial No. 371,122. 7 Claims. (Cl. 32—10.)



4. In a dental parallelograph, the combination of a bed plate, of a standard support carrying a partially hollow slotted standard, of a gear and pinion means for controlling movement of said standard, of a rider element vertically slidable in slot of standard, of a screw means for actuating said rider element, of an operating means for said screw, of a cover element for hollow end of slotted standard, and said cover element acting as journal means for said screw, of a vertically slidable bracket attached to said rider element, of a horizontally movable arm carried by said bracket, and chuck carried by said arm.

1,400,029. AUTOMATIC-FEED MEMORANDUM DEVICE. Edward F. Carey, Chicago, Ill. Filed Nov. 13, 1920. Serial No. 423,790. 7 Claims. (Cl. 281—11.)



4. In a device of the class described, a pivoted writing table, a bell crank, a ratchet mechanism operated thereby, feed means adapted to be actuated by said ratchet mechanism, and means connecting the bell crank with the table and operated thereby for feeding paper over the table.

7. The combination with a writing table, of main feed-rollers for feeding paper thereover, bracket plates pivoted on the sides of said table, said bracket plates having slots therein, screws engaging through said slots and engaging said table to hold the bracket plates in an adjusted position, springs secured to said bracket plates, an axle supported by said springs, and auxiliary feed rollers on said axle for co-action with said main feed rollers to feed over the table.

1,400,030. WELL-CLEANING DEVICE. Frank E. Cravvo, Dallas, Tex. Filed Jan. 14, 1921. Serial No. 437,260. 5 Claims. (Cl. 166—99.)

1. In a well cleaning device, a pipe section, elastic packing elements mounted on the section and spaced apart, the section having perforations within the packing elements and being imperforate between the packing elements, the packing elements being expansible, whereby the fluid passing through the perforations will create pressure and expand said elements against the side of the well casing and then discharge from the elements into the space between said elements.

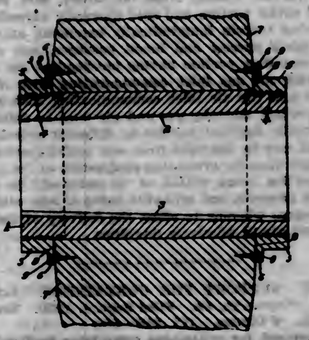


1,400,031. SAFETY-RAZOR. Ferdinando De Grazia, Washington, D. C. Filed May 20, 1920. Serial No. 382,958. 3 Claims. (Cl. 30—12.)



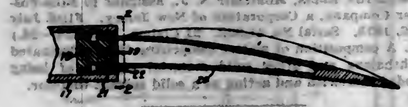
1. In a safety razor wherein a guard plate is transversely curved, spring fingers carried by the opposite ends of the plate, said guard rollers removably journaled in said fingers and retained in operative position on said plate by the resiliency of the spring fingers.

1,400,032. SELF-TIGHTENING PROPELLER-HUB. Daniel Adam Dickey, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 16, 1919. Serial No. 271,568. 5 Claims. (Cl. 170—173.)



1. A hub for propellers and the like comprising a cylindrical body formed with a shaft-receiving bore and having its ends exteriorly and reversely threaded, and clamping nuts applicable to the reversely threaded ends of the body.

1,400,033. PROPELLER. Daniel Adam Dickey, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 15, 1919. Serial No. 277,243. 5 Claims. (Cl. 170—173.)



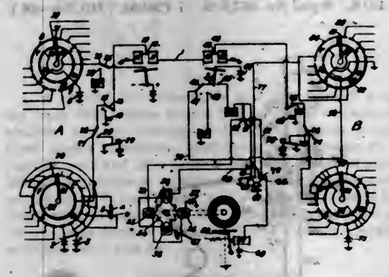
1. A propeller comprising a hub having tubular internally threaded ends, clamping heads screw into the ends of the hub and having outwardly directed tapered end portions, hollow blades of molded fibrous material and a binder adapted, at their inner ends, to snugly engage about the terminals of the clamping heads, and split clamping rings screwed into the ends of the hub to bind the inner ends of the blades to the clamping heads.

1,400,034. GREASE-GUN. Ammon J. Dilley, Muir, Mich. Filed Feb. 18, 1919. Serial No. 277,827. 9 Claims. (Cl. 221—90.)



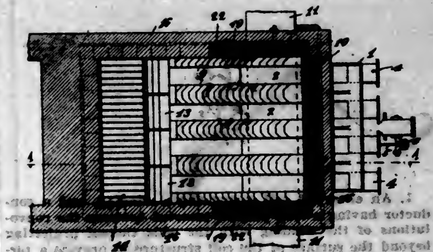
1. In a grease gun, a piston pump, hand operated means for imparting a reciprocal motion and angular motion around the axis of the pump to the piston, a valve controlling the passage of grease to and from the pump, and means actuated by the angular movement of the piston, for operating said valve.

1,400,035. TELEGRAPH SYSTEM. Amos F. Dixon, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 20, 1917. Serial No. 202,941. 7 Claims. (Cl. 178—58.)



1. In a telegraph system, a line circuit, a motor including driving magnets therefor, means for the alternate working of message and control impulses over said line circuit, a line relay and a relay responsive to said line relay for energizing the driving magnets to operate said motor.

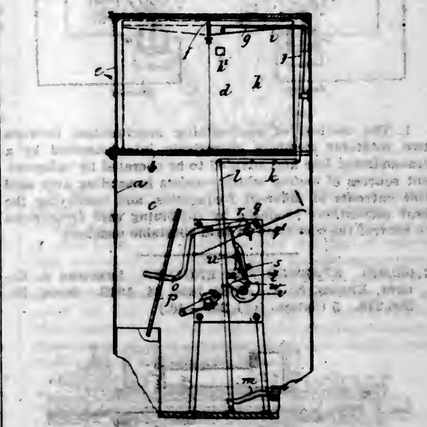
1,400,036. FURNACE. Warren Charles Dennis, Inwood, N. Y. Filed Oct. 15, 1919. Serial No. 329,433. 6 Claims. (Cl. 110—75.)



1. In a furnace a refractory wall bounding the combustion chamber, the same formed with face channels or gutters facing the fuel bed within the chamber and with numerous tapered apertures each arranged with its outlet in the bottom of one of said face channels so as to conduct jets into said channels, and means for supplying air or other fluid under pressure to said apertures.

3. A refractory fire brick or block for furnace walls, the same having face channels or gutters at its inner face and tapered air passages arranged with their outlets in such channels.

1,400,037. COIN-FREED APPARATUS. Thomas Bennis Dennehoum, Kensington, London, England. Filed Apr. 23, 1920. Serial No. 375,949. 4 Claims. (Cl. 194—95.)



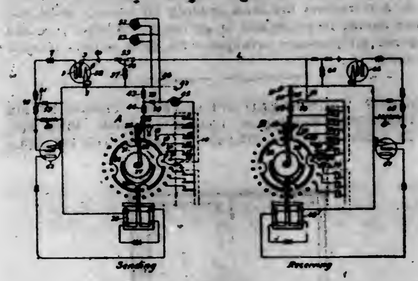
1. Apparatus of the kind referred to, comprising a casing for exhibits, a screen provided with a peep hole arrangement and means for moving the same from a position where normally a free display of the exhibits results to a position such as to obscure the exhibits from the view of all but one individual at a time through such peep hole arrangement, coin freed mechanism adapted to operate the exhibits and said means and maintain the partial obscurity for a predetermined time, and means controlled by the coin freed mechanism for operating the exhibits during the period of partial obscurity.

1,400,038. COIL TERMINAL. HENRY C. BOWNTON, Passaic, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 26, 1918. Serial No. 231,013. 4 Claims. (Cl. 175—359.)



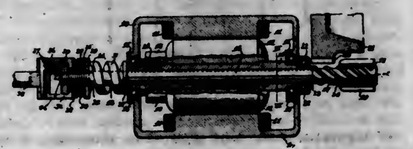
1. An electrical coil comprising a winding, and a conductor having a loop portion inserted between the convolutions of the winding with the ends thereof projecting beyond the surface of the coil structure to provide a terminal for the ends of the winding and a support for the coil structure.

1,400,039. SIGNALING SYSTEM. HENRY C. BOWNTON, Ridgewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 27, 1918. Serial No. 268,482. 7 Claims. (Cl. 178—53.)



1. The method of maintaining synchronism between two rotatable members operatively interconnected by a transmission line and adapted to be operated by independent sources of motion which consists in sending over said line currents of different frequencies, and employing the beat oscillations produced by combining said frequencies to control the operation of said rotatable members.

1,400,040. STARTER FOR ENGINES. STEPHEN A. ELLETT, Elmira, N. Y. Filed June 24, 1919. Serial No. 306,278. 5 Claims. (Cl. 290—46.)



1. A starter for an engine comprising, in combination with an engine driven member to start the same, a single dynamo electric machine having an armature, a shaft rotated by the engine carrying a clutch member, a combined movable and rotatable shaft rotated by or rotating said armature and having a threaded section, a pinion movable on said rotatable shaft and engaging the threaded section of said movable shaft for engaging and actuating the engine driven member, and a clutch on said movable shaft for engaging and disengaging the clutch member on the shaft rotated by the engine.

1,400,041. CONCRETE COATING AND THE LIKE. CARLETON ELLIS, Montclair N. J., assignor to Ellis-Foster Company, a Corporation of New Jersey. Filed July 26, 1915. Serial No. 41,923. 21 Claims. (Cl. 134—26.)

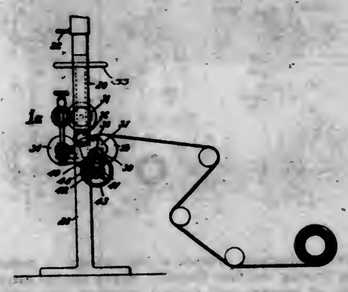
1. A composition of matter comprising tetra chlorinated naphthalene and other solid material capable of being blended therewith and acting as a solid solvent therefor.

1,400,042. ARTIFICIAL LIMB. ARTHUR A. ERB, Denver, Colo. Filed Oct. 17, 1921. Serial No. 508,870. 8 Claims. (Cl. 3—7.)



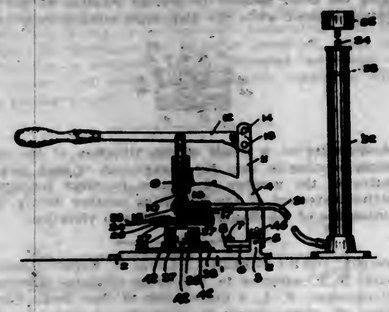
2. An ankle joint for artificial limbs, comprising in combination a tubular, substantially cylindrical, member having open ends, a longitudinally elongated opening in one side of said member, an enlarged portion between the ends thereof, a groove in said enlarged portion, a cylindrical member adapted to be inserted into said tubular member through the open end thereof, said cylindrical member having a longitudinal channel in one side thereof, and two spaced openings from said channel to the other side, a pair of spaced transversely elongated openings in said tubular member, a U bolt encircling said cylindrical member and coöperating with said groove, a U bolt having its arms passing through the spaced openings in the tubular and cylindrical members, and having its transverse portion in the channel in the cylindrical member.

1,400,043. HEAT-REGULATING ATTACHMENT FOR TUBE-MACHINES. LOUIS T. FREDERICK, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 16, 1918. Serial No. 262,915. 7 Claims. (Cl. 34—48.)



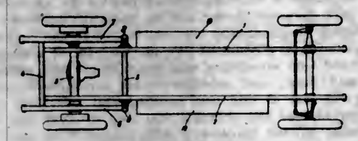
1. In a heat-regulating device for tube machines and the like a heating roll and adjustable supports therefor.

1,400,044. DENTAL CASTING-MACHINE. JOSEPH HARRISON FRENCH, Peterboro, Ontario, Canada. Filed Feb. 24, 1921. Serial No. 447,579. 7 Claims. (Cl. 22—69.)



1. In a dental casting machine, the combination, with the base plate and a hinged bracket thereon, of a mold detachably mounted on the said base plate, a mold cover, a vertical plunger slidably mounted on the hinged bracket, said vertical plunger having an orifice extending up from the bottom thereof, a valve casing mounted on the lower end of the said plunger, a valve stem secured at its lower end to the mold cover and extending up through the valve casing into the orifice in the plunger, said valve stem having a vertical orifice extending up therethrough for a certain extent and communicating with a horizontal orifice opening in the side of the stem, a spring interposed between the top of the valve stem and the top of the orifice in the plunger, means for preventing the rotation of the valve stem relatively to the plunger and valve casing, a valve member adapted to engage the valve stem, and means for admitting air through the valve member and through the valve stem, and through the mold cover into the mold upon the horizontal orifice in the valve stem registering with the corresponding orifice in the valve member.

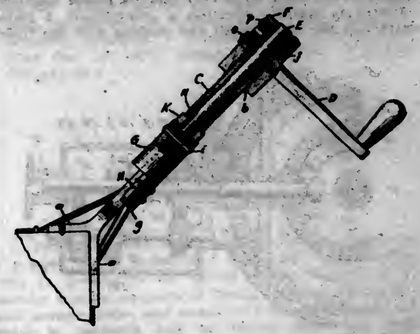
1,400,045. CHASSIS FOR AUTOMOBILE VEHICLES. ERNEST FUCHS, Paris, France, assignor to Louis Renault, Billancourt, France. Filed Dec. 31, 1919. Serial No. 348,709. 2 Claims. (Cl. 280—106.5.)



1. A chassis for automobile and like vehicles comprising main side frames placed the minimum distance apart required for the steering of the front wheels, a pair of cross beams connecting said main side frames at their extreme rear and intermediate portions, a pair of auxiliary side frames disposed outside of said main frames and connected to said cross beams, and suspension springs having their ends connected to the ends of the auxiliary side frames, said springs being positioned directly beneath the auxiliary side frames.

1,400,046. DEVICE FOR TIGHTENING AND SECURING ROUND-WIRE BOX-STRAPPING. LEONARD S. GANS, New York, N. Y. Filed Dec. 3, 1919. Serial No. 342,101. 1 Claim. (Cl. 140—119.)

A device for tightening and securing round wire box-strapping which comprises a suitable frame, a revoluble device mounted therein, and provided with a notched member over which the wires are looped, and means for rotating said device in one direction to move said notched member away from the box around which the wires have been put, thus tightening said wires, and means for



rotating said device in the opposite direction to cause said notched member to rotate, thus twisting said wires around each other while said notched member approaches said box and neutralizes the strain caused by such twisting of said wires.

1,400,047. SINGLE-PHASE ALTERNATING-CURRENT COMMUTATOR-MOTOR. GEORGE H. GARCELON, Swissvale, and CLIFFORD A. M. WEBER, Edgewood Park, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 11, 1917. Serial No. 185,707. 12 Claims. (Cl. 172—276.)

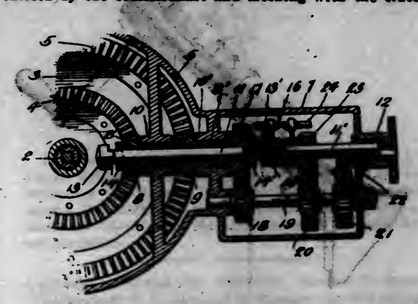


2. The combination with a single-phase, alternating-current motor provided with a field winding, with a slotted armature and with a commutated winding lying in said slots, of a short-circuited winding of relatively high reactance as compared with its resistance underlying said commutated winding in certain of said slots, the reactance of said short-circuited winding being such as to cause the flux of said winding to be largely dephased with respect to the flux of said field winding, whereby the effectiveness of said commutated winding during starting conditions is only slightly impaired.

1,400,048. TRACTOR TRANSMISSION MECHANISM. GEORGE IRA GARGETT, Mount Pleasant, Mich. Filed May 17, 1918. Serial No. 235,095. 1 Claim. (Cl. 74—59.)

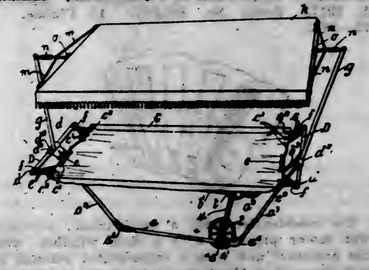
In a transmission, a housing, a jack shaft, a disk carried by said jack shaft in the housing and having inner and outer concentric gear rings, bearings in said housing, sleeves rotatably mounted in said bearings, a pinion carried by one of said sleeves and meshing with the inner gear ring and provided with a clutch element, a sleeve rotatably mounted in the other bearing and having a pinion at one end meshing with the outer gear ring and a pinion at its other end having a clutch element, a driven shaft slidably and rotatably passing through the sleeves

and pinions, a clutch element upon the end of the driven shaft for engaging the clutch element of the first pinion when the driven shaft is moved in one direction, a clutch element intermediate the length of the driven shaft for engaging the clutch element of the pinion carried by the second sleeve when the driven shaft is moved longitudinally in an opposite direction, a countershaft, a pinion carried by the countershaft and meshing with the clutch



carrying pinion of the second sleeve, spaced gears rigid upon said countershaft, an idler gear meshing with one of the spaced gears, and a gear slidably carried by the driven shaft and rotating with the same and means for moving the last mentioned gear longitudinally upon the driven shaft for selective engagement with the idler gear and second spaced gear of the countershaft to rotate the countershaft in a predetermined direction.

1,400,049. HAMMOCK. Frank Gossard, London, England. Filed May 18, 1921. Serial No. 469,265. 3 Claims. (Cl. 5—32.)



1. A hammock, portable bed, or the like, comprising in combination, a metallic tubular frame formed of two side members, each consisting of a straight central part and two straight end parts connected thereto by obtuse angled couplings, the end parts of each side member being connected together by an acute angled coupling, a horizontal tubular member secured to and extending transversely on each side of each acute angled coupling, a hammock-like receptale supported by cords from the extremities of said horizontal members, rods extending vertically from the center of said acute angled couplings, a covering supported above said hammock-like receptacle by cords attached to the upper ends of said rods, and means for maintaining the said covering taut and in a horizontal plane above said hammock-like receptacle.

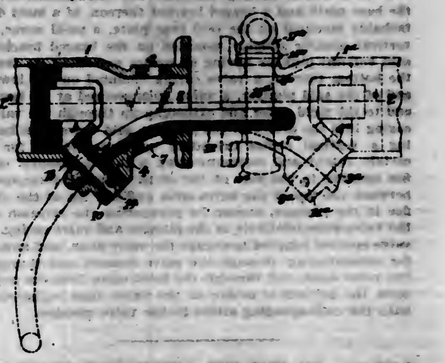
1,400,050. SIGNALING SYSTEM. Bertram B. Grace, Upminster, England, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 5, 1918. Serial No. 252,709. 2 Claims. (Cl. 177—329.)

1. A signaling device comprising a vibratory diaphragm member having an opening therethrough, a rotatable indicating member, a pivoted support for the indicating member extending through the opening of the diaphragm member, and means carried by one of the members engaging the other member to prevent rotation of the indicating member while the diaphragm member is at rest



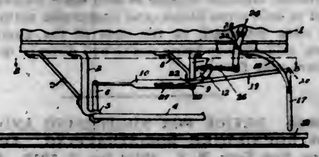
and operative as a result of the vibration of the diaphragm member to vary the engagement of such means relative to the member it engages to effect continued rotative movement of the indicating member during the maintenance of the diaphragm member in vibration.

1,400,051. CAR-COUPLING. Louis D. Gregg, Hackensack, N. J., assignor to The Gregg Company, Limited, Hackensack, N. J., a Corporation of New York. Filed June 17, 1920. Serial No. 389,578. 2 Claims. (Cl. 213—50.)



1. In a link-and-pin car-coupling, the combination comprising a head containing a chamber with a front opening and a downwardly-disposed rear opening and also two transverse registered openings that retain a coupling-pin for engaging a coupling-member carried by an adjacent car, said chamber having also an upwardly-convexed floor extending longitudinally between the front and rear openings aforesaid, a coupling-link in the form of a similarly-convexed loop straddling said coupling-pin and supported on said floor, and a demountable anchor-bolt located near the rear of said rear opening and extending transversely thereof and through said loop whereby the latter on being shifted rearwardly will project from said head and hang down suspended from said bolt.

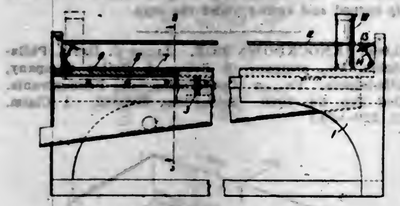
1,400,052. CAR-FENDER. James W. H. Griffin, Altona, Mich. Filed May 1, 1920. Serial No. 378,263. 6 Claims. (Cl. 293—35.)



1. In a device of the class described, a car; a fender pivoted thereto and having an upstanding arm; a support on the car; a locking member mounted on the support for

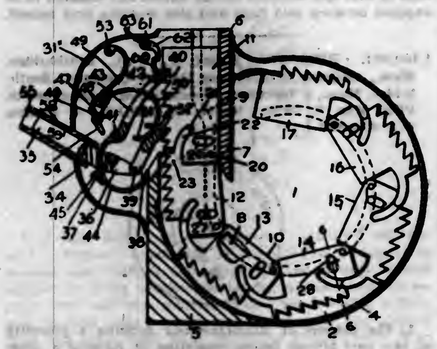
sliding movement and pivoted to the arm, the locking member having a shoulder adapted to engage with the support to hold the fender elevated; an apron mounted to swing on the car; a connection pivoted to the apron and mounted for sliding movement on the support, the connection having an inclined part coöperating with the support to disengage the shoulder therefrom when the connection is advanced by the swinging movement of the apron; and means for uniting the connection with the locking member.

1,400,053. COIN-COUNTING DEVICE. Horace Groff, Wilmington, Del. Filed Dec. 24, 1919. Serial No. 347,177. 4 Claims. (Cl. 133—8.)



1. In a coin counting device, the combination of a base, a dumping plate supported thereby, a coin trap having a series of openings located above said dumping plate, a distributer adapted to receive coins and slide over said openings, means for guiding said distributer, and means lying in the path of said distributer and adapted to be engaged thereby and automatically actuated by said distributer when it passes said series of openings so as to dump said plate.

1,400,054. LIFTING-JACK. Anthony Gustiana, Sudbury, Ontario, Canada. Filed Apr. 18, 1921. Serial No. 462,124. 8 Claims. (Cl. 254—111.)



1. A lifting jack comprising a casing adapted to rest upon the ground and having an upwardly presented orifice and a vertical channel leading therefrom into the casing, a lifting column comprising a series of sections hingedly connected together so as to fit in longitudinal alinement within the vertical channel and to fold on their hinged joints within the casing, a ratchet rack forming the outer face of each section, an operating lever pivotally mounted within the casing, a lever pawl pivotally carried by the lever and engaging the rack of the column, spring means for holding the upper pawl in engagement with the rack, and means for automatically locking the segments together as they are drawn into longitudinal alinement within the aforesaid channel.

1,400,055. SHAFT-BEARING. Max B. Grabl, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 13, 1917. Serial No. 207,009. 6 Claims. (Cl. 64—24.)



1. The combination with a shaft, a lubricant reservoir, a bearing sleeve surrounding said shaft and provided with an opening in the curved surface thereof, of an annular member composed of fibrous material surrounding said bearing sleeve and means whereby said fibrous material is positively held in contact with said shaft through the opening in said bearing sleeve, the lowermost portion of said fibrous member being disposed within said reservoir.

1,400,056. BUST-SUPPORTER. Kaletar Hadley, Kansas City, Mo. Filed Mar. 7, 1919. Serial No. 281,242. 1 Claim. (Cl. 2—73.)

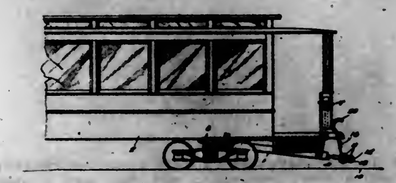


In a bust supporter, a pair of supporting elements each consisting of a circular rim of relatively fine material so as to provide for a close fit of said rims to the body of the wearer, and a smooth fabric body attached to the rim in pocket formation and having sufficient fullness to permit the bust to retain its natural identity, a relatively narrow supporting body-band extending horizontally around the back of the body and having its ends connected to the rings of the supporting elements at the outer sides and approximately midway the upper and lower portions of said elements, relatively narrow shoulder straps having their ends connected to the body band at spaced points and extending up over the shoulders of the wearer and having their opposite ends connected to the tops of the supporting elements, and tie ribbons connected to the rims of the supporting elements at the inner sides and midway the tops and bottoms of said elements, the said tie ribbons having their oppositely opposed ends free and adapted to be tied.

1,400,057. CAR-FENDER. Louis Davis Hamilton, Titusville, Fla., assignor of one-half to Thomas A. Conway, Titusville, Fla. Filed Mar. 12, 1921. Serial No. 451,719. 2 Claims. (Cl. 293—17.)

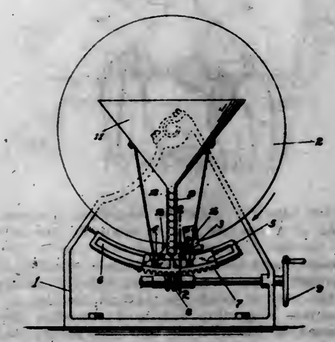
1. The combination of a vehicle body, longitudinal cylinders carried in forwardly and downwardly inclined

position at the underside of said body, pistons movable in the cylinders and having rods extended forwardly through the forward ends of the cylinders, manually-controlled means to supply fluid under pressure to and exhaust fluid under pressure from the rear portions of the cylinders, an axle journaled in the forward portions of the piston rods and having flanged wheels to travel on track rails, a corrugated roller of elastic material connected by gearing with the said axle and arranged



in advance of the axle and in a plane below that of the axle, a roller mounted at the forward end of the vehicle body, a spring housed in said roller and adapted to be placed under tension by turning of the roller in one direction and to rotate the roller in the opposite direction, and a flexible support connected with the forward portions of the piston rods and the roller on the body and adapted to be drawn from and taken up on said roller.

1,400,058. PROJECTILE-THROWER. LOUIS B. HARVEY, Buffalo, N. Y. Filed Apr. 11, 1921. Serial No. 460,469. 4 Claims. (Cl. 124—1.)



1. A device of the character described including a disk adapted to be rotated at a high speed, a hammer fixed to and projecting from the periphery of the disk, a table under the hammer, a bin to receive shot, a chute leading therefrom and discharging onto the table, and means for positively drawing the shot from the chute to pass into and lie in the path of movement of the hammer.

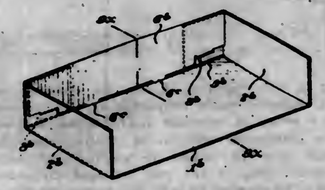
1,400,059. BATTERY TERMINAL. ALDA F. HAWKINS, Fort Worth, Tex., assignor to Standard Battery Manufacturing Company, Fort Worth, Tex., a Corporation of Texas. Filed Aug. 2, 1919. Serial No. 314,984. 1 Claim. (Cl. 204—29.)

In a battery terminal fastening, a terminal post having lugs and flat sides connecting the lugs, and a nut having a slot shaped to receive the lugs and pass down the flat sides, one of said elements having diagonally disposed



inclined faces at points of contact with the other element, whereby the nut and lugs are wedged together when the nut is turned and swung under the lugs.

1,400,060. KNOCKDOWN BOX. JACOB C. HEIM, Philadelphia, Pa., assignor to Brown & Bailey Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 24, 1920. Serial No. 360,632. 1 Claim. (Cl. 229—30.)



A knock-down box member having a rectangular body section provided with parallel edge scores, side sections hinged to said body section along said scores; flaps hinged to said side sections and adapted to be engaged in said scores in bowed relation to said side sections; side sections hinged to said body section along lines at right angles to said scores, and extensions hinged to the ends of said side sections second named and adapted to be engaged between said flaps and side sections first named.

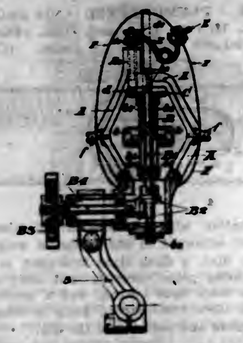
1,400,061. BIFOCAL. HARRY W. HILL, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Mar. 8, 1920. Serial No. 363,929. 3 Claims. (Cl. 49—82.1.)



1. The process of simultaneously forming a plurality of two part bifocal lenses consisting in forming a countersink centrally of a blank, securing a segment of different index of refraction within the countersink and subsequently splitting the blank through the countersink to provide a plurality of lens portions each having a near and a distant vision section.

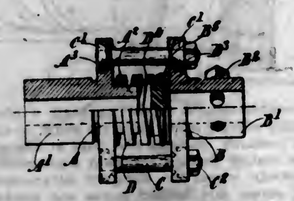
1,400,062. AUTOMOBILE-SPEED CONTROLLER. HENRY C. HILL, Cincinnati, Ohio. Filed Dec. 22, 1920. Serial No. 432,555. 3 Claims. (Cl. 123—118.)

1. In a speed controller for automobiles a centrifugal spring governor containing a pivoted vertical shaft, upon the lower end of said shaft a rigidly attached collar, upon the upper end of said shaft a movable sleeve, the rigid collar and movable sleeve being joined by two or more flat metal springs, said springs being provided with metal balls or weights at their mid-lengths, so arranged and operating that when the metal balls and springs expand by revolution of the governor the movable sleeve is drawn downward on the governor shaft, a circular disk attached to said movable sleeve upon which rides



a vertically sliding stem, said stem being insulated from the body of the governor and provided with lock nuts to limit the downward travel and break contact between the lower end of said stem and the revolving disk, when the speed of the governor is such that the disk is drawn so far downward that the sliding stem no longer rides on it, and means for connecting said sliding stem with the primary wire of the electric circuit to the spark plugs of an automobile, substantially as described.

1,400,063. TOOL-HOLDER. THOMAS HINTON, Reading, England, assignor to Herbert Merton, Reading, England. Filed Feb. 25, 1919. Serial No. 279,124. 3 Claims. (Cl. 279—16.)



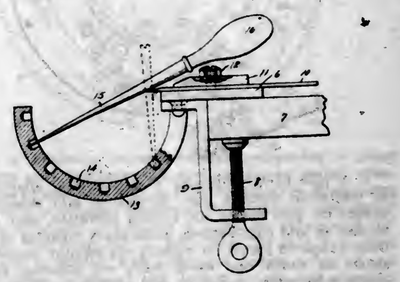
1. A tool holder of the character described for use with a support, comprising in combination a supporting member comprising a disk adapted to be secured to said support, a chuck member comprising a disk normally coaxial with said first mentioned disk for receiving a tool, each of said disks having seats in its outer face remote from the other disk, links extending through said disks and having hemispherical portions at each end seated in said seats, said links constituting the sole means for connecting and transmitting rotational movement from the supporting member to the chuck member, and normally extending parallel with the axis common to said members and being free to swing universally each about its point of connection with said members, whereby the chuck and supporting member may have a relative rotary movement and be caused thereby to move axially relatively to each other, and a compression spring between said members tending to thrust the same apart, substantially as and for the purpose set forth.

1,400,064. PORTABLE POWER-DRIVEN CROSSCUT-SAW. AXEL HOLMBERG, South Ecklin, via Terang, Victoria, Australia. Filed Oct. 1, 1918. Serial No. 256,385. 5 Claims. (Cl. 143—68.)



1. In a portable power-driven saw, the combination with a two-part frame; a saw blade carried by the front part of said frame; a motor carried by the rear part of the frame; means for connecting said motor to said saw blade, comprising a reciprocating block carried by the front part of the frame and a pitman carried by the rear part, means whereby the front part of the frame and the rear part of the frame may be angularly adjusted relatively to one another; means for securing the front and rear parts of the frame together in adjusted position; and a swivel joint connecting said reciprocating block and stem pitman to permit said angular adjustment of said front frame with relation to the rear frame.

1,400,065. HOLDING-TOOL FOR SHARPENING SCRAPERS, &c. PAUL O. HUBRICHT, Cleveland, Ohio. Filed Oct. 20, 1920. Serial No. 418,276. 1 Claim. (Cl. 29—83.)



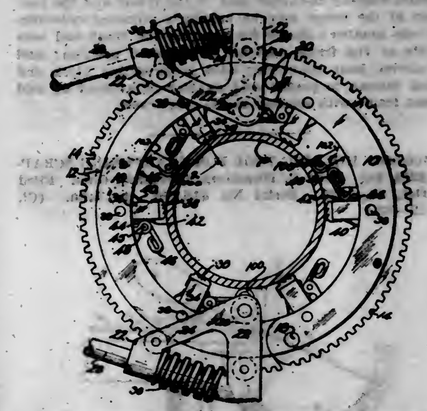
A work holder for sharpening blades, comprising a horizontally arranged clamp for the blade, a screw clamp depending from the under side of said clamp, for the attachment of said clamp to the edge of a bench or the like, and a curved arm secured to the under side of the blade clamp and projecting outwardly therefrom, and having a plurality of depressions located at various angles with respect to the blade clamp and adapted to form a rest for the front end of a tool while it is being applied to the edge of the blade.

1,400,066. CONSTRUCTION TOY SET. ADOLF HUCK, Nuremberg, Bavaria, Germany. Filed July 18, 1914. Serial No. 851,799. 1 Claim. (Cl. 46—35.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

A set of toy construction members comprising in combination, assembling bodies provided with screw threaded recesses or holes in their faces, socket members

adapted to be secured into said crossbars, rods engaging with their ends said socket members, and means for detachably securing said rods and sockets in their relative position, substantially as described.

1,400,067. PIPE-BUCK. James C. Hunnam, Fort Morgan, Colo. Filed Apr. 5, 1920. Serial No. 371,410. 6 Claims. (Cl. 81—97.)



1. A pipe buck comprising a ring member adapted to be positioned about a pipe, devices on said member to engage the pipe during the turning operation, gear teeth formed on said ring member, worm gears engaging in said teeth at spaced points for turning the member converging shafts on which said worm gears are mounted, and a single drive shaft geared to said converging shafts.

1,400,068. RATCHET MECHANISM. Howard W. Hunt and Prospero B. Carbullo, Cincinnati, Ohio. Filed July 28, 1920. Serial No. 399,744. 12 Claims. (Cl. 74—84.)



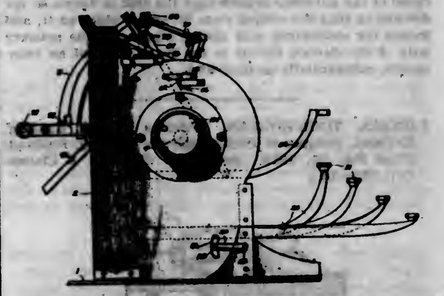
1. In combination, ratchet mechanism consisting of driving means reversible alternately in one direction and then in the other and of a driven element driven alternately in one direction and then in the other, means for disengaging the driven element from said driving means at a fixed point in the course of its motion when driven in one direction, and adjustable means for disengaging said driven element from said driving means at any predetermined point in the course of its motion when driven in the other direction.

1,400,069. PLUMB-LEVEL AND PROTRACTOR. Herbert L. Hunter, Cleveland, Ohio. Filed June 16, 1920. Serial No. 389,496. 1 Claim. (Cl. 240—2.)



The combination with a stock having communicating recesses, a dial arranged in one recess, a weighted index finger for the dial, a flash light arranged in the other recess, a retaining plate covering said light and slotted to receive the flash light button, and a sectional casing slidable on the stock and adapted when in closed position to cover said plate and button and the dial.

1,400,070. TYPOGRAPHICAL MACHINE. William J. Irwin, Tacoma, Wash. Filed Dec. 26, 1920. Serial No. 432,704. 11 Claims. (Cl. 199—5.)



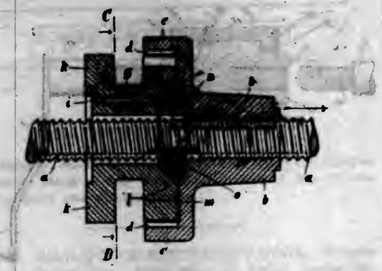
1. In combination, a supporting shaft a plurality of matrix disks slidably mounted on the shaft, means on the shaft for normally retaining the disks at one end thereof, a type casting mold, a key-board mechanism operable to successively release the disks for advancement along the shaft across said holding means and means for advancing them into coöperative relation with said mold for the casting of a type slug.

1,400,072. EXTRUSION-PRESS. Olaf B. Jacobsen, Birmingham, England. Filed Sept. 12, 1918. Serial No. 253,713. 4 Claims. (Cl. 207—3.)



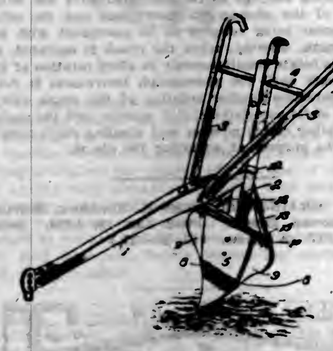
1. An extrusion press, involving a plunger, to the extremity of which a mandrel is secured, said mandrel being of diameter less than that of the plunger, in which the said plunger is located solely within a hollow plunger, and in which the plunger first mentioned is adapted to exert a proportion of the extrusion pressure

1,400,073. FEED DEVICE FOR THE MANDRELS OF MACHINE TOOLS OF ALL KINDS. Max Jänicke, Halle-on-the-Saale, Germany. Filed Apr. 18, 1916. Serial No. 92,024. 2 Claims. (Cl. 77—39.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A feed device for a mandrel of machine tools comprising in combination a nut, a mandrel having threaded engagement with said nut, and means for continuously preventing the rotation of said nut during the idle travel of the mandrel, and means whereby said nut is arrested intermittently upon resistance being applied to the mandrel during its feeding motion.

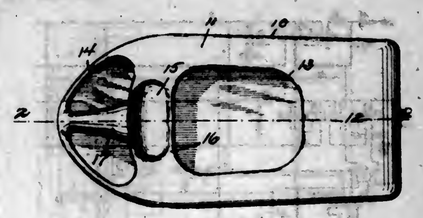
1,400,073. AGRICULTURAL IMPLEMENT. Thomas M. Jones, Chateaugay, N. Y. Filed Apr. 18, 1921. Serial No. 462,373. 2 Claims. (Cl. 97—26.)



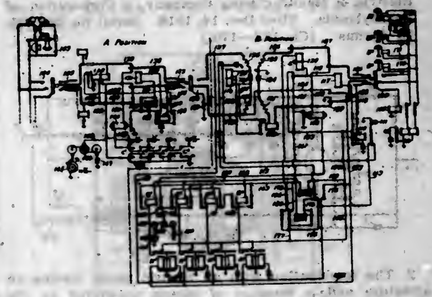
2. In combination, a beam and a standard, a cross bar secured to the standard, a cultivator blade secured to the front of the standard and bearing against the cross bar, the cross bar having reduced ends to form with the cultivator blade guides on opposite sides of the standard, wings pivoted to the cultivator blade and operating in the guides, the cross bar serving to brace the upper portion of the wings, diverging links pivoted to the upper ends of the wings, an operating lever pivoted to diverging links to swing the wings toward and from the standard.

1,400,074. BEDPAN. Joseph Kerrakis, Newark, N. J.; Clara Kerrakis administratrix of said Joseph Kerrakis, deceased. Filed Jan. 29, 1920. Serial No. 354,868. 4 Claims. (Cl. 4—10.)

1. A bed pan having its top provided with the usual main opening, a tube at the front extending forwardly and downwardly into the pan, the pan being formed between the outer end of the tube and the forward edge of the main opening so as to provide a suspensory.



1,400,075. TELEPHONE-EXCHANGE SYSTEM. Charles W. Keckler, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 11, 1917. Serial No. 185,705. 4 Claims. (Cl. 179—55.)

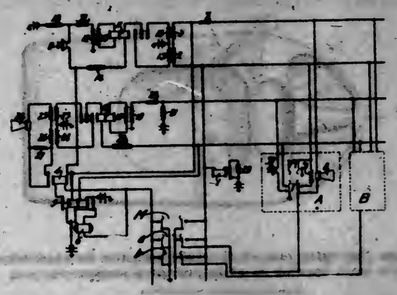


1. A telephone exchange system comprising a trunk circuit extending between a first and second central office, means at said first office to supply a plurality of signaling currents of different characteristics, means at said second office to supply a plurality of signaling currents of different characteristics, a link circuit at said first office adapted to connect with said trunk circuit, means at said first office to connect any desired one of said signaling currents at said first office with said link circuit, means associated with said trunk circuit and operated by the particular signaling current connected to said link circuit to automatically connect a particular current from said current supply means at said second office with said trunk circuit, and means to disconnect signaling current at said first office from said link circuit on signaling current at said second office being supplied to said trunk circuit.

1,400,076. TELEPHONE SIGNALING SYSTEM. Charles W. Keckler, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 16, 1919. Serial No. 345,380. 2 Claims. (Cl. 179—84.)

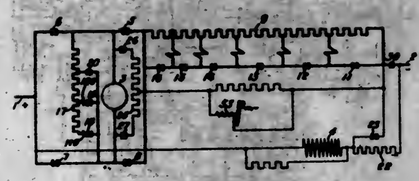
1. A telephone system comprising a plurality of stations, a source of signaling current, means at one of said stations for selectively connecting said source to signal any one of said other stations, and a chain of cyclically operating relays, consisting of a slow-acting relay, a second relay, energized upon the operation of said slow-acting relay, to release said slow acting relay, and a third

relay, energized upon operation of the said second relay and release of the said slow-acting relay, to disconnect



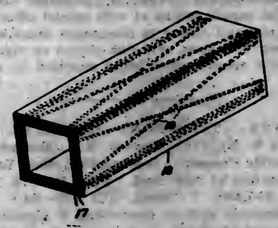
said source of signaling current and establish a talking connection between first said station and said other station.

1,400,077. MOTOR-CONTROL SYSTEM. HAROLD L. KEITH, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 14, 1918. Serial No. 266,691. 20 Claims. (Cl. 172—179.)



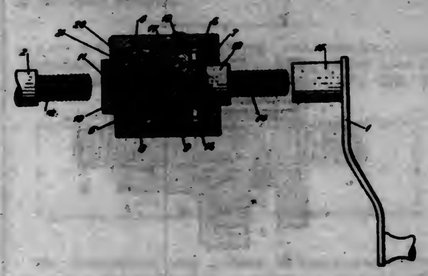
2. The combination with an electric motor having an armature and a resistor, of means controlled by the counter-electromotive force of said motor for inserting a portion of said resistor into parallel circuit with said armature, and means controlled by the current traversing said motor for inserting the remainder of said resistor into parallel circuit with said armature.

1,400,078. MOLDED TUBE. WILLARD H. KEMPTON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 16, 1918. Serial No. 228,820. 8 Claims. (Cl. 93—94.)



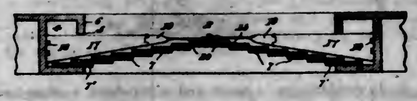
1. A reinforced tubular article including a tubular body formed of superimposed layers of fibrous sheet material secured by a binder and a plurality of reinforcing wires provided with a binder-impregnated fibrous covering interposed between the layers of the body.

1,400,079. SAFETY DEVICE FOR PHONOGRAPHS. CHARLES H. KREMER, Jersey City, N. J., assignor of one-fourth to Oscar A. Widenmann and one-fourth to Reinhold Prietz, Jersey City, N. J. Filed Aug. 9, 1920. Serial No. 402,214. 6 Claims. (Cl. 64—30.)



5. A safety device for phonographs embodying a casing, a pair of smooth faced cone clutch members positioned interiorly of the casing, means for yieldably maintaining the smooth conical surfaces of said clutch members in engagement with one another, one clutch member being locked to the casing for rotation therewith while free for automatic longitudinal adjustment therein and the other clutch member being rotatable with respect to the casing, the latter clutch member being provided with teeth on one of its parts other than the clutch face, an alarm member positioned exteriorly of the casing, and means cooperating with the toothed face of the rotatable clutch member for operating the alarm means, one of said clutch members being adapted to be associated with the winding shaft of the phonograph instrument and the other clutch member being adapted to be associated with the winding crank, whereby, when the crank is operated, all of the parts rotate simultaneously to effect rotation of the winding shaft until the phonograph instrument is fully wound, whereupon further rotation of the crank effects a rotation of its associated clutch member and the casing while the other clutch member and winding shaft remain fixed for the purpose of actuating the alarm.

1,400,080. GRAIN-DOOR. JOHN K. KOPCHUK, Melville, Saskatchewan, Canada. Filed Aug. 19, 1920. Serial No. 404,517. 9 Claims. (Cl. 20—27.)

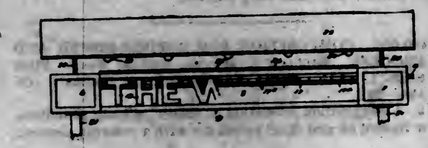


1. A grain door of the type described comprising in combination with a door opening having frame pockets at opposite sides thereof, a door formed of sliding panels adapted to extend across the door opening when in closed position and to be received in said pockets when in open position, and means adapted to be moved into the path of opening movement of the panels to hold the same in closed position.

1,400,081. ADVERTISING-SIGN. EDWIN O. LA ROCHE, Clifton, Ill. Filed June 23, 1921. Serial No. 479,822. 5 Claims. (Cl. 40—96.)

1. A sign comprising two end boxes, a pair of channeled casings extending between said boxes and having

flanges at their top and bottom edges, drums in the boxes, an endless belt extending around the drums and along



in the casings, said belt being exposed between the flanges, at opposite sides of the sign, and means in one of the boxes to drive one of the drums.

1,400,082. MAIL-POUCH-SUSPENDING HOOK. ROBERT E. LEE, Dallas, Tex. Filed Mar. 21, 1921. Serial No. 454,282. 2 Claims. (Cl. 24—232.)



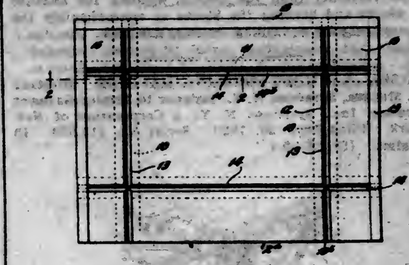
2. In a mail pouch suspending hook, a hook body having a suspending element at one end and a laterally extending shank at the other end, said shank having a reduced end portion, a latch approximately U-shaped in cross section straddling the reduced end portion of the shank and having sides pivotally connected with said reduced end portion, said latch being provided at its rear end with fingers extending longitudinally beyond the pivot and adapted to contact with the sides of the reduced end portion, said latch and fingers terminating approximately flush with the shank.

1,400,083. THREE-PIECE WATCH-CASING. LOUIS LEHR, Bayonne, N. J. Filed Oct. 1, 1921. Serial No. 504,597. 7 Claims. (Cl. 58—88.)



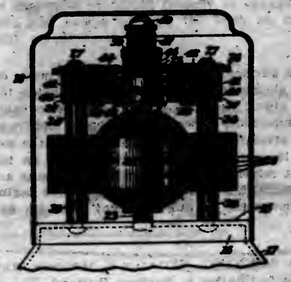
1. A three-piece snap-casing having a body with a border flange, and a circular dust-collar projected from the front side of the body-plate and a bezel formed upon the rear side, a rear cover fitted to snap on the rear bezel, and the front having a marginal dust-flange fitted within the border flange upon the body, and having a crystal-opening of any desired shape.

1,400,084. CIGAR-BOX. HENRY LEHMAN, Tampa, Fla. Filed Jan. 14, 1920. Serial No. 351,904. 9 Claims. (Cl. 217—2.)



1. A wooden box having the ends of its side walls jointed and secured together at the corners and integrally united to the bottom.

1,400,085. VIBRATORY-DIAPHRAGM SIGNALING DEVICE. DUNCAN ALEXANDER MCCONNELL, Arlington, N. J., assignor to Klaxon Company, a Corporation of Delaware. Filed Apr. 24, 1918. Serial No. 230,448. 2 Claims. (Cl. 172—36.)



1. An electric motor, including a pair of supporting rods, pole pieces carried thereby intermediate of the ends thereof, a stamped metal member connecting said rods, a pair of lined sleeves, a band encircling each sleeve and having its end portions secured to said member, brushes longitudinally movable within said sleeves, and an armature shaft journaled in said member intermediate of said sleeves.

1,400,086. FRUIT PRESERVATIVE AND PROCESS FOR USING SAME. REX DE ORR MCDILL, Riverview, Fla. Filed Jan. 12, 1921. Serial No. 436,777. 4 Claims. (Cl. 99—8.)

1. The process for preserving fruit in the raw state, consisting of washing the fruit and then applying a coating to the fruit by passing the fruit through a film of paraffin floating on hot water.

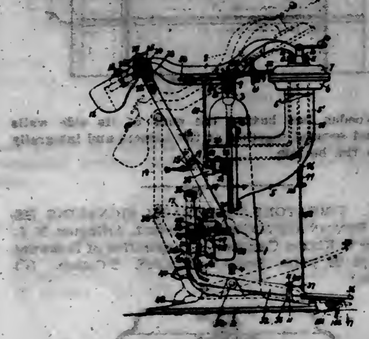
2. The process for preserving fruit in the raw state consisting in floating a film of paraffin on hot water and passing the fruit to be coated up under said floating film and lifting the same whereby an integral continuous coating will be applied to the fruit.

1,400,087. BASIC REFRACTORY BRICK. SPENCER B. NAWMMAR, Cleveland, Ohio. Filed Nov. 19, 1920. Serial No. 425,286. 7 Claims. (Cl. 106—10.)

1. The process of making basic refractory brick by calcining a mixture of lime and argillaceous matter in such

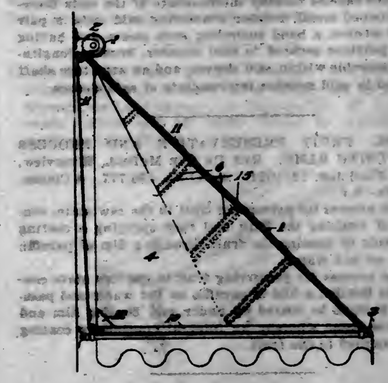
proportions that the resulting clinker will not shrink appreciably during continued heating when exposed to air, adding to the clinker a mixture of lime and argillaceous matter of greater fusibility than the clinker, molding the mixture into blocks and burning the blocks at approximately the temperature used in burning ordinary fire brick.

1,400,088. GARMENT-PRESSING MACHINE. RICHARD H. MILLER, Syracuse, N. Y., assignor to Triplex Garment Presser, Inc., Syracuse, N. Y., a Corporation of New York. Filed Sept. 29, 1920. Serial No. 413,559. 15 Claims. (Cl. 68—9.)



3. In a garment pressing machine, a frame, coöperative pressing elements, one of which is movable toward and from the other, a resting support for the movable element, toggle connections between said support and frame, a pedal lever for straightening the toggle to throw the movable element to its pressing position and having an independent movement relatively to the toggle, and means actuated by the independent movement of the pedal for flexing the toggle to release the movable element from its flexing position.

1,400,089. AWNING. WILLIAM E. METZGER, Rutland, Vt., assignor to Charles A. Metzger, Rutland, Vt. Filed Mar. 12, 1920. Serial No. 365,189. 4 Claims. (Cl. 156—44.)



3. In a roller-type awning, a drum or body portion having a gore cut from each end thereof; telescoping end curtains, one edge thereof being gored, said gored edges adapted to be joined to the gored ends of said body portion; pockets formed in said end curtains and adapted to embrace between [illegible] said end curtains and the other ends fastened to said body portion so as to prevent the ends of said battens from coming into contact with said body portion.

1,400,090. COMPOSITION FOR RUBBER-FINISH AND PROCESS. WILLIAM H. MILLER, Renton, Wash. Filed Sept. 1, 1921. Serial No. 497,982. 2 Claims. (Cl. 134—54.)

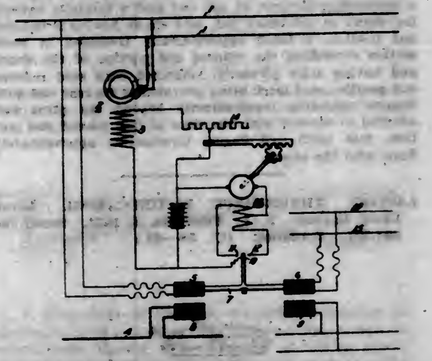
2. A composition consisting of rubber, silicate of sodium, raw linseed oil and drier substance with a coloring element.

1,400,091. AUTOMATIC RAILWAY SAFETY APPLIANCE. JOHN H. MUNDERBACK, Watertown, N. Y. Filed May 23, 1921. Serial No. 471,574. 3 Claims. (Cl. 246—260.)



1. In an appliance of the class described, a cross plate having a pair of upwardly projecting substantially cylindrical bosses, a contact member having a pair of cylindrically extending bosses telescoped within the bosses upon said strip, a member connected to the said contact device between the said bosses, and a flexible cable connected to said member and adapted to effect telescope movement of the bosses upon said contact device with the bosses upon said strips, and spring means within the bosses tending to move the contact device away from said strip.

1,400,092. CONTROLLING DEVICE. FRANK D. NEWBURY, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 4, 1918. Serial No. 215,403. 7 Claims. (Cl. 171—119.)



1. In a system for controlling an electrical quantity in proportion to the quotient obtained by dividing a second electrical quantity by a third electrical quantity, means for developing a force proportional to the product of said controlled quantity and said third quantity, means for developing a force proportional to the product of said second quantity and a fixed magnetic force, means for differentially combining said two forces, and means, operable by the movement of said combining means, for adjusting said controlled quantity.

N. Y., assignors to Twisted Wire & Steel Co., a Corporation of New York. Filed Dec. 24, 1920. Serial No. 432,990. 2 Claims. (Cl. 254—71.)



1. A wire-stretcher which is provided with a multiple pawl arrangement which consists of a pair of driving pawls adapted to operate alternately, and a pair of holding pawls each of which is adapted to be operated by its corresponding driving pawl during the tightening operation.

1,400,094. BOX-CAR. LEWIS C. ORD, Montreal, Quebec, Canada, assignor to The Holden Company, Limited, Montreal, Canada. Filed Feb. 28, 1920. Serial No. 362,169. 3 Claims. (Cl. 108—5.5.)



1. In a box car the combination with a roof structure and end plate thereof of a member effecting a union between the roof structure and end plate and mutually reinforcing the same, such member consisting of a comparatively wide and relatively thin plate secured to the roof structure and having a relatively shallow depending flange secured to the end plate.

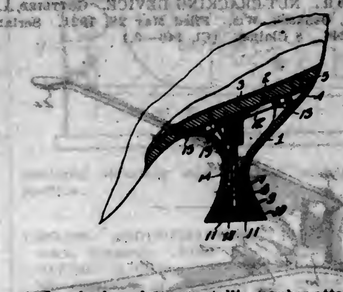
2. In a box car the combination with side plates, end plates, ridge pole, purlins and side furrings, of a member effecting a union between the ridge pole, purlins and side furrings and the end plate, such member consisting of a comparatively wide and relatively thin gusset plate extending in arch form from side plate to side plate and secured at its ends between the side plate and furrings and to the ridge pole and purlins, the said plate having at one side edge a longitudinal depending flange, and bolts fastening the said flange to the end plate at points in the vicinity of the purlins.

1,400,095. DETACHABLE HEEL. GEORGE W. OWEN, Indianapolis, Ind., assignor of one-half to Paul K. Thiry, Indianapolis, Ind. Filed Mar. 11, 1920. Serial No. 364,991. 8 Claims. (Cl. 36—41.)



2. In a heel structure, a metallic plate attachable to a sole, a hollow body member closed at its top, one of said [illegible] having inclined edges at its ends, and having a screw threaded lug, a hollow metallic body member having ridges within the shell and protected thereby to engage said inclined edges and means to hold the body to the plate, substantially as set forth.

1,400,096. DETACHABLE HEEL. GEORGE W. OWEN, Indianapolis, Ind., assignor of one-half to Paul K. Thiry, Indianapolis, Ind. Filed Oct. 4, 1920. Serial No. 414,533. 6 Claims. (Cl. 36—41.)



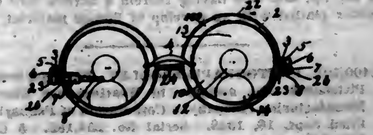
1. In a heel, a plate, a metallic member attached thereto having inclined edges at its ends, and having a screw threaded lug, a hollow metallic body member having ridges within the shell and protected thereby to engage said inclined edges and means to hold the body to the plate, substantially as set forth.

1,400,097. TOY AEROPLANE. LOUIS J. PERKINS, Lewiston, Idaho. Filed Apr. 8, 1921. Serial No. 460,552. 2 Claims. (Cl. 244—12.)



1. A toy aeroplane comprising a fuselage, a rudder pivoted to said fuselage, an operating rod connected to said rudder, a link pivoted to the forward end of said rod, a lever having a branch pivotally and slidably connected to said link and provided with a slot, a weight having a rod provided with a pin slidable in said slot, and a sleeve slidably supporting said weight, said lever, said rod, said weight and said sleeve being housed entirely within said fuselage.

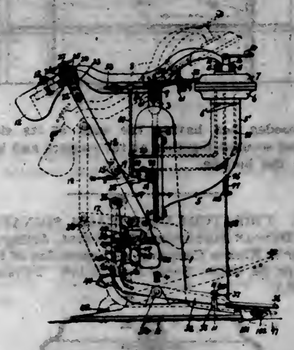
1,400,098. OPTICAL INSTRUMENT. ARTHUR PERRIN, Brookline, Mass. Filed Jan. 5, 1921. Serial No. 435,138. 4 Claims. (Cl. 88—41.)



1. An optical instrument comprising front and rear spectacle frames, containing objective and eyepiece lenses respectively, said frames each having bows hinged thereto, and the bows of the respective frames being connected

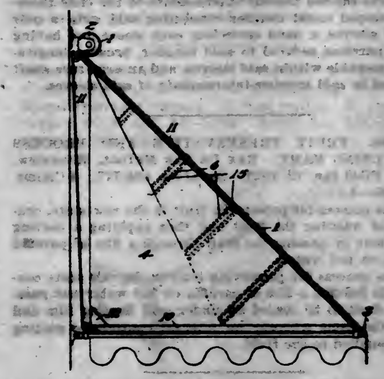
improvement that the resulting clinker will not disintegrate after being continued heating when exposed to atmosphere, adding to the clinker a mixture of lime and argillaceous matter of greater fusibility than the clinker, molding the mixture into blocks and burning the blocks at approximately the temperature used in burning ordinary fire brick.

1,400,088. GARMENT-PRESSING MACHINE. RICHARD H. MELLEN, Syracuse, N. Y., assignor to Triplex Garment Presser, Inc., Syracuse, N. Y., a Corporation of New York. Filed Sept. 29, 1920. Serial No. 412,559. 15 Claims. (Cl. 68—9.)



3. In a garment pressing machine, a frame, coöperative pressing elements, one of which is movable toward and from the other, a rocking support for the movable element, toggle connections between said support and frame, a pedal lever for straightening the toggle to throw the movable element to its pressing position and having an independent movement relatively to the toggle, and means actuated by the independent movement of the pedal for flexing the toggle to release the movable element from its flexing position.

1,400,089. AWNING. WILLIAM E. METZGER, Rutland, Vt., assignor to Charles A. Metzger, Rutland, Vt. Filed Mar. 12, 1920. Serial No. 365,189. 4 Claims. (Cl. 156—44.)



3. In a roller-type awning, a frame or body portion having a guard cut from each end thereof; telescoping slat curtains, one edge thereof being curved, said curved edges adapted to be joined to the guard ends of said body portion; pockets formed in said end curtains and adapted to embrace between them, parallel with said curved edges of said curtains, one end of a batten, and a thumb fastened to said end curtains and the other ends fastened to said body portion so as to prevent the ends of said battens from coming into contact with said body portion.

1,400,090. COMPOSITION FOR RUBBER-FINISH AND PROCESS. WILLIAM B. MILLER, Renton, Wash. Filed Sept. 1, 1921. Serial No. 497,892. 2 Claims. (Cl. 134—54.)

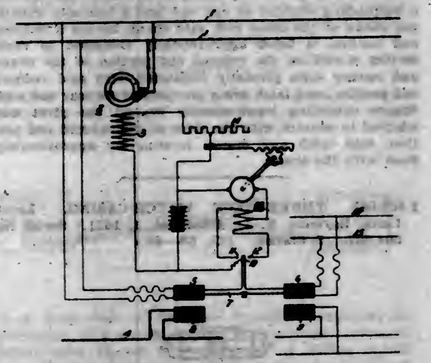
2. A composition consisting of rubber, silicate of sodium, raw linseed oil and drier substance with a coloring element.

1,400,091. AUTOMATIC RAILWAY SAFETY APPLIANCE. JOHN H. MUNDENBACK, Watertown, N. Y. Filed May 28, 1921. Serial No. 471,874. 3 Claims. (Cl. 246—200.)



1. In an appliance of the class described, a cross plate having a pair of upwardly projecting substantially cylindrical bosses, a contact member having a pair of cylindrically extending bosses telescoped within the bosses upon said strip, a member connected to the said contact device between the said bosses, and a flexible cable connected to said member and adapted to effect telescope movement of the bosses upon said contact device with the bosses upon said strips, and spring means within the bosses tending to move the contact device away from said strip.

1,400,092. CONTROLLING DEVICE. FRANK D. NEWBURY, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 4, 1918. Serial No. 215,403. 7 Claims. (Cl. 171—119.)



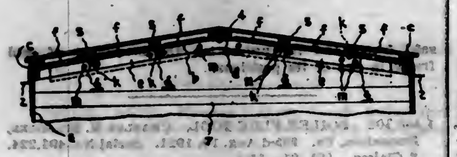
1. In a system for controlling an electrical quantity in proportion to the quotient obtained by dividing a second electrical quantity by a third electrical quantity, means for developing a force proportional to the product of said controlled quantity and said third quantity, means for developing a force proportional to the product of said second quantity and a fixed magnetic force, means for differentially combining said two forces, and means, operable by the movement of said combining means, for adjusting said controlled quantity.

1,400,093. WIRE-STRETCHER. CHARLES J. O'CONNOR, Chicago, Ill., and [illegible], New York, N. Y., assignors to Twisted Wire & Steel Co., a Corporation of New York. Filed Dec. 24, 1920. Serial No. 432,990. 2 Claims. (Cl. 254—71.)



1. A wire-stretcher which is provided with a multiple pawl arrangement which consists of a pair of driving pawls adapted to operate alternately, and a pair of holding pawls each of which is adapted to be operated by its corresponding driving pawl during the tightening operation.

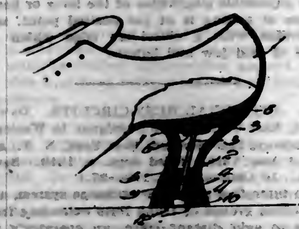
1,400,094. BOX-CAR. LEWIS C. ORD, Montreal, Quebec, Canada, assignor to The Holden Company, Limited, Montreal, Canada. Filed Feb. 28, 1920. Serial No. 362,169. 3 Claims. (Cl. 108—5.5.)



1. In a box car the combination with a roof structure and end plate thereof of a member effecting a union between the roof structure and end plate and mutually reinforcing the same, such member consisting of a comparatively wide and relatively thin plate secured to the roof structure and having a relatively shallow depending flange secured to the end plate.

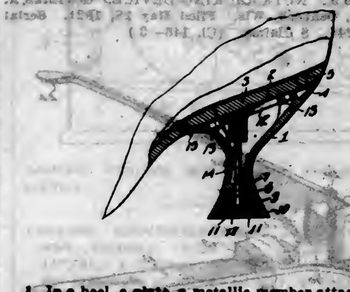
2. In a box car the combination with side plates, end plates, ridge pole, purlins and side furrings, of a member effecting a union between the ridge pole, purlins and side furrings and the end plate, such member consisting of a comparatively wide and relatively thin gusset plate extending in arch form from side plate to side plate and secured at its ends between the side plate and furrings and to the ridge pole and purlins, the said plate having at one side edge a longitudinal depending flange, and bolts fastening the said flange to the end plate at points in the vicinity of the purlins.

1,400,095. DETACHABLE HEEL. GEORGE W. OWEN, Indianapolis, Ind., assignor of one-half to Paul K. Thiry, Indianapolis, Ind. Filed Mar. 11, 1920. Serial No. 364,991. 8 Claims. (Cl. 36—41.)



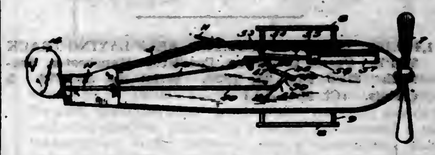
2. In a heel structure, a metallic plate attachable to a sole, a hollow body member closed at its top, one of said members having an angular recess and the other having an angular projection to engage in said recess to prevent relative rotation of the two, and means to fasten the body to the plate.

1,400,096. DETACHABLE HEEL FOR SHOES AND BOOTS. GUSTAV W. OWEN, Indianapolis, Ind., assignor of one-half to Paul K. Thiry, Indianapolis, Ind. Filed Oct. 4, 1920. Serial No. 414,533. 6 Claims. (Cl. 36—41.)



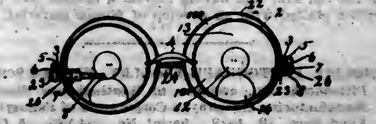
1. In a heel, a plate, a metallic member attached thereto having inclined edges at its ends, and having a screw threaded lug, a hollow metallic body member having ridges within the shell and protected thereby to engage said inclined edges and means to hold the body to the plate, substantially as set forth.

1,400,097. TOY AEROPLANE. LOUIS J. PERKINS, Lewiston, Idaho. Filed Apr. 8, 1921. Serial No. 459,582. 2 Claims. (Cl. 244—12.)



1. A toy aeroplane comprising a fuselage, a rudder pivoted to said fuselage, an operating rod connected to said rudder, a link pivoted to the forward end of said rod, a lever having a branch pivotally and slidably connected to said link and provided with a slot, a weight having a rod provided with a pin slidable in said slot, and a sleeve slidably supporting said weight, said lever, said rod, said weight and said sleeve being housed entirely within said fuselage.

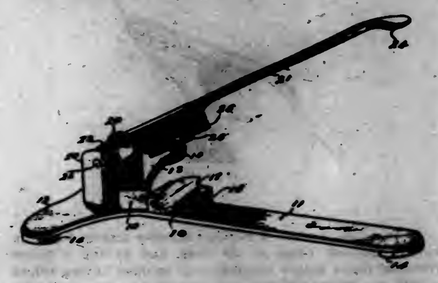
1,400,098. OPTICAL INSTRUMENT. ARTHUR PERRIN, Brookline, Mass. Filed Jan. 5, 1921. Serial No. 435,138. 4 Claims. (Cl. 68—41.)



1. An optical instrument comprising front and rear spectacle frames, containing objective and eyepiece lenses respectively, said frames each having bows hinged thereto, and the bows of the respective frames being connected

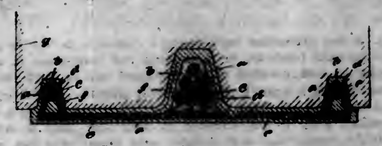
by guides which accommodate a relative sliding movement by which the objectives may be moved toward and from the eyepieces while retained parallel and substantially co-axial therewith, the shoulders to which said bows are hinged having the pivotal axes of the bows of the respective frames substantially in line with one another when the front and rear frames are closed together, whereby the connected bows of both frames can be folded down parallel with the plane of the lenses.

1,400,099. NUT-CRACKING DEVICE. Gottlieb A. Pueppke, Oshkosh, Wis. Filed May 28, 1921. Serial No. 473,244. 3 Claims. (Cl. 146—3.)



1. A nut cracker of the class described, comprising in combination, a block recessed for receiving and supporting an elongated nut, a lever arm pivoted for vertical swinging movement and adapted to crack said nut when swung downwardly, and coöperating shearing jaw, means carried by said block and lever arm whereby the ends of the nut are severed therefrom previous to the cracking thereof.

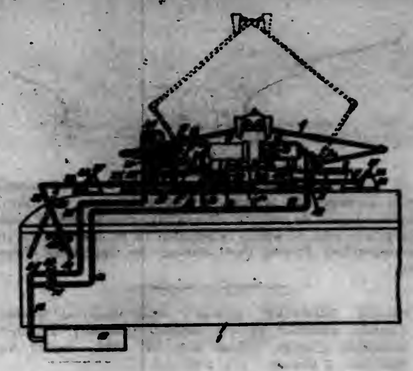
1,400,100. VEHICLE OF THE SELF-LAYING-TRACK TYPE. Frank Reddaway, Pendleton, Manchester, England. Filed Jan. 24, 1920. Serial No. 353,773. 5 Claims. (Cl. 304—10.)



1. As an article of manufacture, a flexible traction member, having a tread surface of vulcanised material, layers of reinforcing material inserted in such tread surface, and a longitudinally extending rib on the opposite side thereof, said rib having an outer casing of vulcanised material and a core of rubber softer than the outer shell of the rib, said core having therein a flexible cord of soft rubber plaited with an envelop of fibrous material.

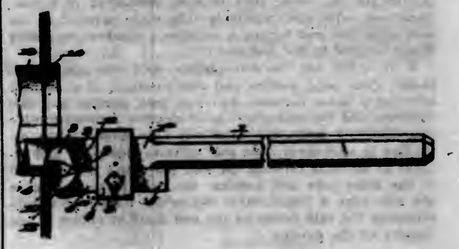
1,400,101. PANTOGRAPH-TROLLEY. William Schaake, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 16, 1918. Serial No. 254,185. 5 Claims. (Cl. 191—65.)

1. A trolley comprising a pantograph frame biased to its extended position, means for retracting the frame, latching means for holding the frame in a retracted position, means for actuating said latching means to release said frame, and additional means, having a plurality of positions, for releasing said latching means and moving



said frame and for preventing the movement of said frame in one of its positions.

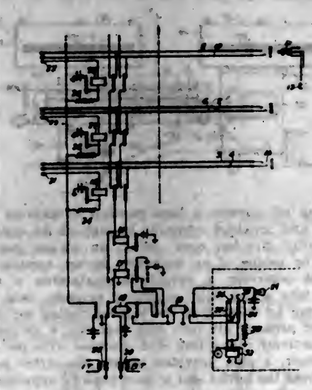
1,400,102. BOILER-FLUE TOOL. Charles M. Spangler, Emporium, Pa. Filed Aug. 10, 1921. Serial No. 491,224. 3 Claims. (Cl. 81—15.)



1. A boiler flue tool comprising a handle or lever having a rigid jaw provided with a fulcrum adapted to engage the inner surface of the flue which is to be removed, and a jaw adjustable lengthwise of the lever or handle for the purpose of setting it at the desired point, said jaw being provided with a chisel-like edge which extends lengthwise of said jaw and handle.

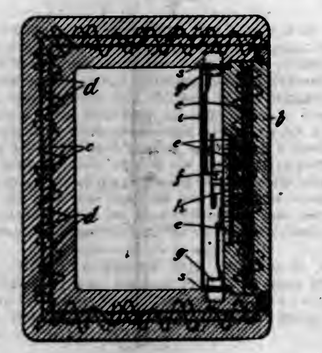
1,400,103. ARTIFICIAL BUSY-CIRCUITS. Dawson M. Taggart, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 4, 1919. Serial No. 321,584. 10 Claims. (Cl. 179—27.)

1. In an interoffice telephone exchange system, an office, a distant office, groups of trunk lines extending from said first office to said distant office, an operator's position at said distant office at which one of said groups of trunks terminates, apparatus at said first office to simultaneously render all the trunks of the group busy, and means under the control of an operator to operate said ap-



paratus over the talking conductors of one of said trunk lines.

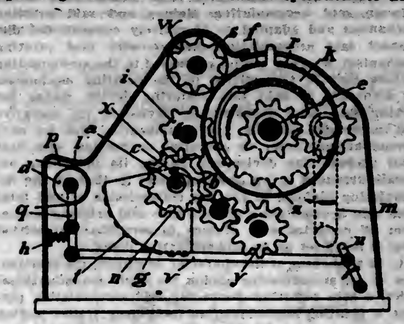
1,400,104. SAFE. Werner Thörig, Zurich, Switzerland. Filed Oct. 16, 1919. Serial No. 331,169. 3 Claims. (Cl. 109—1.)



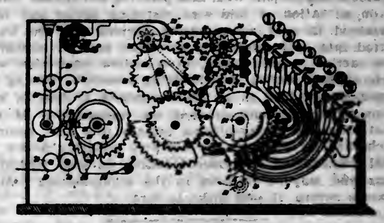
1. A safe comprising a body portion formed of concrete, rods in said concrete, bars in said concrete, said rods and bars being interlaced in screw-like manner, and a door, said rods and bars being situated substantially through the concrete.

1,400,105. CALCULATING-MACHINE. Franz Trinks, Brunswick, Germany. Filed Nov. 2, 1915. Serial No. 59,245. 10 Claims. (Cl. 235—58.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. A calculating machine, comprising rotatable setting disks having displaceable teeth, a numeral printing mechanism adapted to be set by the displaced teeth, means for operating said disks, and means actuated by the disk operating means in its movement of operation for automatically returning said printing mechanism to zero position.



1,400,106. ADDING-MACHINE. Franz Trinks, Brunswick, Germany. Filed Aug. 30, 1916. Serial No. 117,791. 4 Claims. (Cl. 235—60.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a machine of the character described, the combination of an accumulator comprising an accumulating pinion for each denominational order, a zero restoring device for said accumulating pinions, a printing mechanism, a total transmitting device between said accumulating pinions and said printing mechanism and adapted to operatively connect and disconnect said accumulating pinions with said printing mechanism, whereby a total contained in the accumulator may be transmitted into the printing mechanism on actuation of said zero restoring device, and an indicating disk for each denominational order in operative connection with said total transmitting device and having its indicating numerals arranged in an order opposite to that of the accumulating pinions so that on transmission of any total by restoring said accumulating pinions to zero the total transmitted is being set up on said indicating disks.

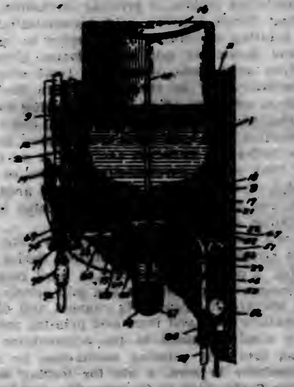
2. In a machine of the character described, the combination of an accumulator, a zero restoring device for said accumulator, a printing mechanism, a total transmitting device between said accumulator and said printing mechanism and adapted to operatively connect and disconnect said accumulator with and from said printing mechanism, whereby a total contained in the accumulator may be transmitted into said printing mechanism by restoring said accumulator to zero, a pin for locking said total transmitting device both in its operative position and in its inoperative position, and a handle connected to shift said transmitting device from one of such positions to the other and provided with a pair of cams alternately engageable with said pin to lift the same out of locking position.

3. In a machine of the character described, the combination of an accumulating pinion for each denominational

setting, a zero restoring device for said accumulating pinions, a printing mechanism, a total transmitting device between said accumulating pinions and said printing mechanism and adapted to operatively connect and disconnect said accumulating pinions with said printing mechanism, whereby a total contained in the accumulating pinions may be transmitted to the printing mechanism on actuation of said zero restoring device, means for locking said total transmitting device in its operative and inoperative positions, and an indicating disk for each denominational order, in operative connection with said total transmitting device and having its indicating numerals arranged in an order opposite to that of the accumulating pinions, so that on transmission of any total from said accumulating pinions into said printing mechanism by restoring said pinions to zero the transmitted total is being set up on said indicating disks.

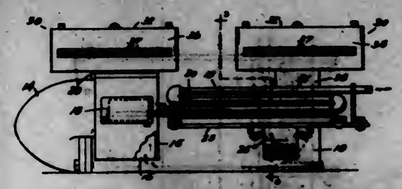
4. In a machine of the character described, the combination of an accumulating pinion for each denominational order, a zero restoring device for said accumulating pinions, a printing mechanism, an oscillatory frame, motion transmitting members on said frame for each denominational order and in operative connection with said printing mechanism, means for locking said oscillatory frame in either of its two positions, an oscillatory member adapted to render said locking means inoperative during the initial part of its oscillatory movement and to shift said oscillatory frame after having rendered said locking means inoperative, the shifting of said frame causing said motion transmitting members to operatively connect said accumulating pinions with said printing mechanism whereby on actuation of said zero restoring device any total contained in said accumulating pinions may be transmitted into said printing mechanism, and an indicating disk carried on said frame, in operative connection with each of said motion transmitting members, having its numerals arranged in an order opposite to that of said accumulating pinions so that on transmission of any total from said accumulating pinions into said printing mechanism by actuation of said zero restoring device the total transmitted is rendered visible on said indicating disks and may be restored in the accumulating pinions through return of said disks to zero.

1,400,107. CHLORINATION APPARATUS. James W. Van Meter, San Francisco, Calif. Filed Feb. 23, 1921. Serial No. 447,197. 9 Claims. (Cl. 22—8.)



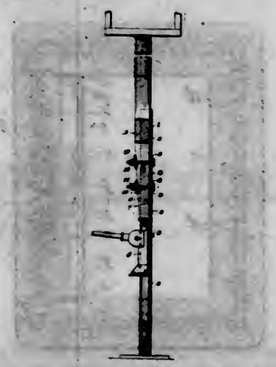
1. A chlorin apparatus comprising a light proof cabinet, an inverted bottle in said cabinet, a relatively small bulb of transparent material secured to the open end of said bottle and extending out of said cabinet, means for introducing fluid to be chlorinated to said bottle and bulb, and means for introducing chlorin gas under pressure to chlorinate said fluid.

1,400,108. OIL-BURNER. Thomas Wilson, Seattle, Wash. Filed Dec. 6, 1921. Serial No. 515,566. 9 Claims. (Cl. 158—61.)



1. In an oil burner, a base member containing a gas reservoir and provided adjacent to each of its ends with an upwardly directed neck outlet, an oil-gas generator operated by means of an auxiliary burner receiving fuel from said reservoir, a receptacle containing a mixing chamber into which said generator extends, said receptacle having an opening in the bottom thereof for the admission of primary air into said chamber, a return bend communicatively connecting said chamber with the end of the reservoir, a pipe provided within the latter and extending from the outlet end of said bend to approximately the midlength of the reservoir, a burner provided for each of said necks, said burners being provided with inlets for the admission of secondary air, a slotted cap piece provided within the head for the respective necks, said caps serving to deflect the secondary air into the passages of the necks to unite with the mixture of primary air and gas passing through the respective neck passages.

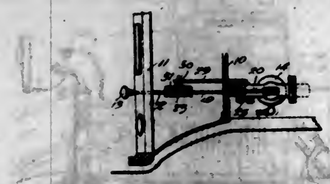
1,400,109. SHORE. Oscar L. Wallace, Cincinnati, Ohio. Filed Nov. 10, 1920. Serial No. 423,142. 2 Claims. (Cl. 248—21.)



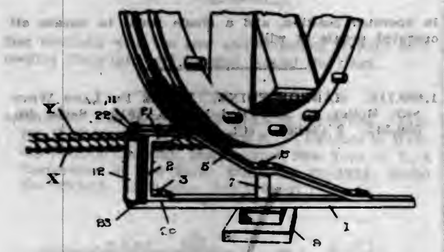
1. In a device of the class described, a channeled base member, openings in the web portion of the same, a head section of rectangular cross section slidably fitting within said base, having a downwardly tapered lower front face, a slot at a right angle to said tapered portion and of equal length thereto, clamping means traversing said base member and the slot of said head member and coacting with said tapered face.

1,400,110. CARBURETER CONTROL. William D. Wanzer, Columbus, Ohio, assignor of one-half to Horatio J. Fairchild, Kalamazoo, Mich. Filed Jan. 24, 1920. Serial No. 353,628. 5 Claims. (Cl. 137—144.)

5. The combination with a carbureter including a choker valve and a fuel valve, of a control rod mounted for longitudinal and rotative adjustment and having connections to said control valve and fuel valve including a universal joint, a bell crank lever, a link connecting one arm of said lever to said choker valve, and a link connected to the other arm of said lever and having a connection to said control rod permitting relative movement thereof whereby said choker valve is actuated by the longitudinal movement of said control rod and said fuel valve is adjusted by the rotative movement thereof.



1,400,111. OIL-RIG BULL-ROPE TRIPPER. Elmer Walters, Eldorado, Kans. Filed Aug. 18, 1920. Serial No. 404,485. 1 Claim. (Cl. 64—4.)



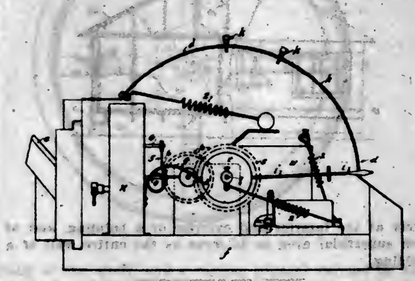
A rope trip for shifting ropes on bull wheels of oil well rigs comprising a bottom bar, a top bar, a diagonal brace bar that extends rearwardly and form a part of the top bar and the bottom bar, a spreader block interposed between the brace portion and the base of the tripper, the said spreader block extending through the base member and terminating in a central bearing for the tripper, a base block into which the said bearing is received, a spreader iron that joins the outer ends of the top and base portions of the tripper, a roller bearing mounted vertically between the said top and base portions and a handle receiving member extended from the rear end of the base bar, all being arranged substantially as shown and described.

1,400,112. VEHICLE-WHEEL HUB. Edward R. Wagner, Milwaukee, Wis., assignor to E. R. Wagner Manufacturing Company, North Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 8, 1920. Serial No. 372,188. 5 Claims. (Cl. 301—84.)



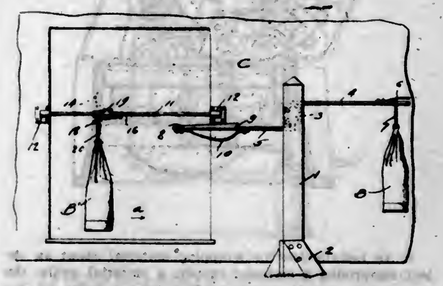
1. A wheel hub comprising two outwardly flanged sheet metal barrel sections, having their flanges secured together and radially grooved to form spoke sockets, and an abutment ring inserted in the barrel opposite the spoke sockets.

1,400,113. AUDIBLE ALARM OR INDICATION APPARATUS. George Edwin Washington and Harold Washington, Manchester, England. Filed June 25, 1919. Serial No. 306,782. 3 Claims. (Cl. 161—4.)



1. In an audible alarm, a base, a cover plate secured to the base and provided with a slot, a removable memorandum card marked to indicate time and attached to the cover at one side of the slot, a shaft secured to the base and arranged under the cover plate, an oscillatory arm pivoted on the said shaft and projecting through the said slot, means for sounding an audible alarm when the arm arrives at predetermined markings on the time card, and a clockwork mechanism secured to the base and operatively connected with the said arm.

1,400,114. MAIL-BAG CATCHING AND DELIVERING APPARATUS. James G. Welch, St. Louis, Mo., assignor of one-fourth to John Sinclair, one-fourth to Harry John Cross, and one-fourth to William Aitchison, Detroit, Mich. Filed June 24, 1919. Serial No. 306,314. 2 Claims. (Cl. 258—17.)



1. The combination with a mail sack having a loop; of an arm upon which the loop is adapted to pass, said arm having yielding means associated with one side thereof, and a sloping portion on the arm opposite the yielding means and upon which the mail sack loop is adapted to ride, the yielding means and sloping portions rendering the side of the arm such that the loop cannot pass thereon and beyond the yielding means without causing the latter to flex.

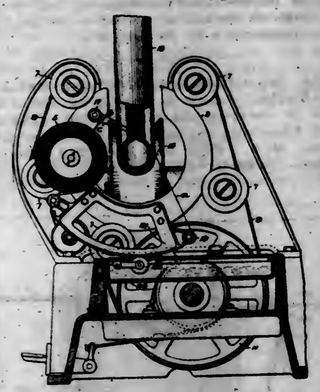
1,400,115. BUILDING-SLAB. Karl Wessel, St. Paul, Minn. Filed Jan. 12, 1920. Serial No. 350,997. 9 Claims. (Cl. 20—4.)

1. A wall slab having substantially its entire mass made from vegetable fiber united in compact self sustain-

ing form and of such strength, thickness and rigidity that it is adapted to support itself and a roof structure, when erected with its inner and outer surfaces exposed respectively at the interior and exterior of a building, and of such superficial area as to serve as the entire wall of a building.



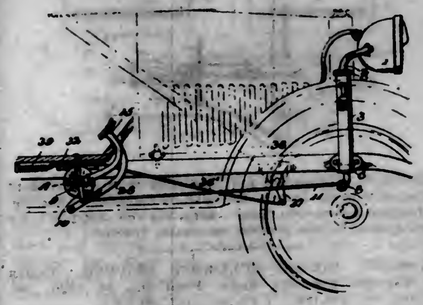
1,400,116. METHOD OF WRAPPING AND MEANS FOR PRACTISING THE SAME. WILLIAM M. WEBBLDON, Ashland, Mass., assignor to Edward H. Angier, Framingham, Mass. Filed Apr. 6, 1918. Serial No. 227,098. 2 Claims. (Cl. 242—6.)



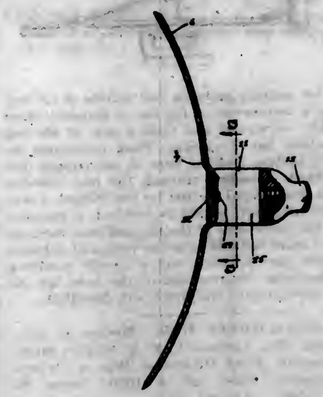
1. An installation for wrapping material about an object comprising a material supply, a material guide, the material from said supply leading from a point on one side of the object to a point at the opposite side of the object, providing a part between such points bearing on the object, leading at said opposite side over the guide and thence in the opposite direction back to the object in superposed relation to the part of the wrapping already thereon, providing a loop over the guide having a closed mouth provided by superposition of the two branches thereof on the article and means to effect relative rotation of object and supply.

1,400,117. VEHICLE-HEADLIGHT CONTROL. JOHN WESLEY WHITE, Lewistown, Mont. Filed Oct. 7, 1920. Serial No. 415,414. 7 Claims. (Cl. 240—61.)

1. Dirigible head lights, a foot pedal for turning each head light to signal a contemplated turn of the vehicle, automatic locking means for securing an operated pedal in operated position, and a single pedal to release all operated pedals at will.



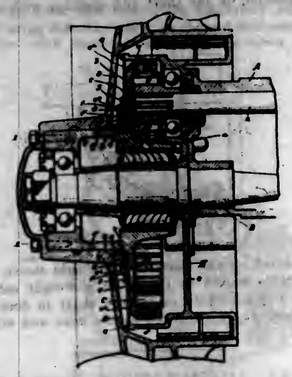
1,400,118. HARROW-POINT. WILLIS DE LANO WHITNEY, Holley, N. Y. Filed Nov. 8, 1919. Serial No. 336,545. 3 Claims. (Cl. 55—97.)



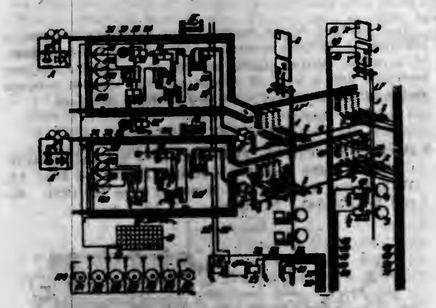
1. The combination with a clip constituting a fastening member and having a transverse bar; of a double ended point having side recesses receiving the sides of the clip adjacent to said bar, a lug projecting inwardly from the bar adjacent one side, said point having a recess communicating with one of the aforesaid recesses and receiving said lug therein.

1,400,119. HOUSING FOR TRUCK DRIVING-GEARS. RICHARD A. WHITTINGHAM, Newark, Del. Filed May 5, 1920. Serial No. 379,044. 2 Claims. (Cl. 74—7.)

2. The combination with a dead axle having a wheel spindle, a driving gear, having a hub, mounted on the spindle and a drive shaft having a pinion engaging the gear, of a gear housing secured to the dead axle and inclosing said gearing, the front wall of said housing having an annular pocket adjacent the gear hub, said pocket having an annular opening and having an opening in its lower part communicating with the interior of the housing, and packing rings between the walls of said pocket, a disk rotatable with the gear and extending between said packing rings into said housing beyond the rings.



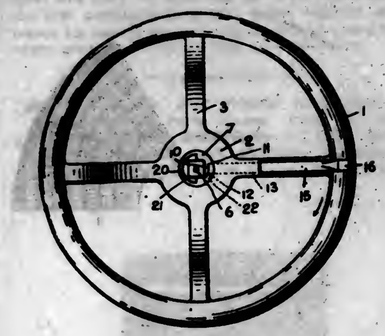
1,400,120. TELEPHONE-EXCHANGE SYSTEM. SAMUEL B. WILLIAMS, Jr., Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 17, 1918. Serial No. 229,035. 40 Claims. (Cl. 179—27.)



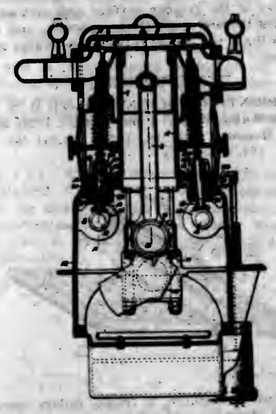
1. The combination with a switching mechanism having a plurality of contact banks, a corresponding plurality of trip magnets and trip rods, and a plurality of shafts with means for moving the same, each of said shafts carrying a set of brushes for each of said contact banks, of a plurality of switches, one for each of said brush sets, and operating means for each of said switches comprising two cooperating members, one member being controlled by the associated trip rod and the other member being controlled by the associated shaft.

1,400,121. DETACHABLE AUTOMOBILE STEERING-WHEEL. CEPHAS JOHN WILLS, Toronto, Ontario, Canada, assignor of one-half to Edgar James Wills, Toronto, Ontario, Canada. Filed Nov. 29, 1920. Serial No. 426,975. 5 Claims. (Cl. 74—33.)

1. The combination with the steering shaft and steering wheel, of a keeper portion carried by the steering shaft and provided with a keeper recess extending inwardly from the end of the shaft and circumferentially, an engaging projection carried by the steering wheel adapted to enter the recess so as to be carried longitudinally and circumferentially of the shaft, and a locking plunger carried by the wheel adapted to fit the recess and to be withdrawn by the thumb of the operator holding the steering wheel.

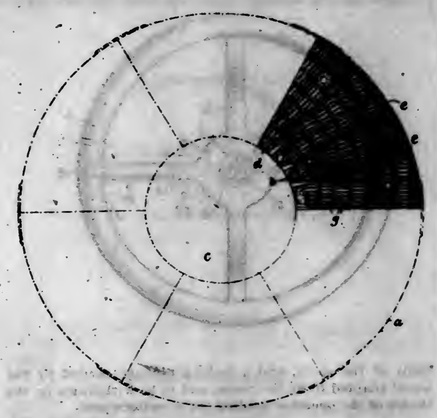


1,400,122. INTERNAL-COMBUSTION ENGINE. NIKLAS WINBLAD, Stepney, Conn., assignor, by mesne assignments, to the Locomobile Company, Bridgeport, Conn., a Corporation of West Virginia. Filed Nov. 14, 1917. Serial No. 202,034. 5 Claims. (Cl. 123—86.)



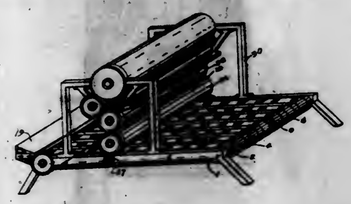
2. An engine comprising, in combination, a cylinder having a laterally offset valve chamber and a pair of valve seats, a piston working in said cylinder, a pair of valves coöperating with said seats, valve-actuating mechanism including a shaft whose axis is located at a greater distance from the axis of said cylinder than the distance from the centers of said valve seats to said axis, a pair of valve-actuators operated by said shaft, a pair of valve-actuator guides having outer circumferential surfaces arranged parallel with the axis of said cylinder and having inner valve-actuator guiding surfaces arranged at an angle to the axis of said cylinder, a support provided with openings whose internal surfaces form sockets for said outer circumferential surfaces of said guides, and means to predetermine the position of said guides and to insure alinement of their guiding surfaces with said valves.

1,400,122. GRINDING-PLATE FOR ATTRITION-MILLS. GEORGE WOLFF, Paterson, N. J. Filed Nov. 30, 1920. Serial No. 427,000. 2 Claims. (Cl. 83—3.)



1. A grinder surface for a rotary attrition mill having sector-shaped grinder surface portions whose sides are radii from the center of rotation as between such grinder surface and a corresponding opposed grinder surface, each such sector-shaped surface portion being composed of series of spaced straight blades all arranged substantially parallel with one of said sides of said surface portion and said series being arranged at different distances from the center portion of the grinder surface and each series having the blades therein respectively opposite, and narrower at their tops than, the spaces between the blades in the adjoining series.

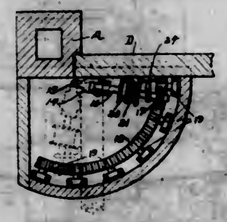
1,400,124. PRINTING-MACHINE. RALPH H. S. WOLVERTON, Walla Walla, Wash. Filed May 24, 1920, Serial No. 383,633. Renewed July 18, 1921. Serial No. 485,791. 4 Claims. (Cl. 101—35.)



1. In a printing machine, a frame, rollers mounted in said frame, a flexible resilient carrier mounted on said rollers and provided with pockets, a grooved parted carrier guide attached to said frame and positioned to register with the lower side of the upper portion of said carrier, an adjustable yielding roller positioned to register against the under side of the upper portion of said carrier, a feeding table, a resilient printing roller, a type roller to register with said printing roller and an inking mechanism, an inking mechanism, and an adjusting means for regulating the height of said inking mechanism with relation to the article to be printed.

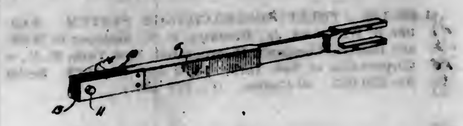
1,400,125. DOOR-CLOSER. JOHN C. WOOD, Bellaire, Ohio. Filed Mar. 27, 1920. Serial No. 369,211. 2 Claims. (Cl. 16—47.)

1. In door closing means, a door, a supporting plate, a bearing sleeve pivoted at one end to said plate for movement about a vertical axis, a shaft having one end rotatably mounted in said sleeve, a rack depending from said plate and disposed concentric with the pivot of said sleeve, a pinion secured on the shaft and meshing with said rack,



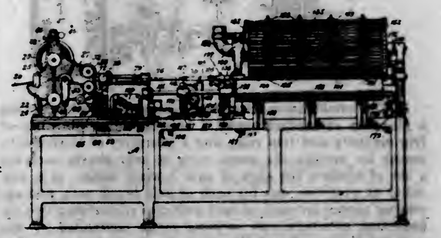
a drum secured on the shaft between said sleeve and the pinion, a cable wound on the drum, a weight secured on said cable and acting to rotate the shaft in door closing direction, and an arm secured to the door and straddling the shaft.

1,400,126. CONTACT DEVICE. JAMES A. WOTTON, Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 16, 1920. Serial No. 431,179. 6 Claims. (Cl. 175—345.)



1. A contact device comprising a vibrating member, a plurality of resilient members secured to the free end thereof, a contact button rigidly secured to one of the resilient members, and a body of elastic material secured between and in intimate contact with said resilient members.

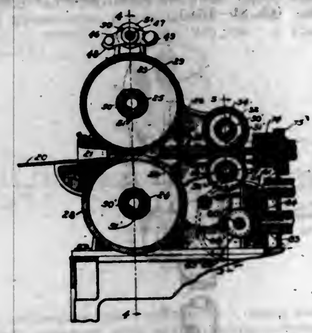
1,400,127. MACHINE FOR MAKING SPIRAL STICK-CANDY. FRED E. ZARSE, Chicago, Ill. Filed Sept. 11, 1918, Serial No. 253,563. Renewed June 13, 1921. Serial No. 477,345. 27 Claims. (Cl. 107—4.)



1. In a machine of the character described, the combination of mechanism for shaping and continuously feeding a strip of material, means for twisting the strip, means for severing the twisted strip into lengths and means for severing the lengths into sticks of commercial size.

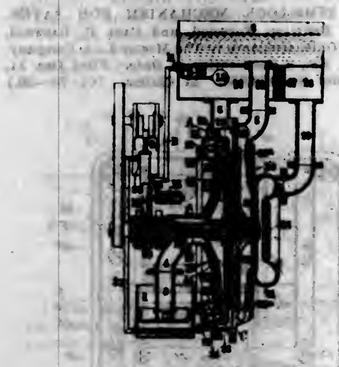
1,400,128. MACHINE FOR MAKING CANDY. FRED E. ZARSE, Chicago, Ill. Filed Dec. 8, 1919. Serial No. 343,263. 14 Claims. (Cl 107—10.)

1. In a machine of the character described, the combination of a pair of rolls for shaping and feeding a strip of candy and provided with means to shape different strips, mechanism for driving said rolls, means for heating said rolls, mechanism for acting upon the shaped strip after it leaves the rolls and means fro conjointly adjusting the rolls to bring different portions thereof into position for cooperation with mechanism for acting upon the shaped strip.



4. In a machine of the character described, the combination of a pair of rolls provided with means for shaping different strips, another pair of feed-rolls also provided with means for shaping different strips, mechanism for driving both pairs of rolls, mechanism for acting upon the shaped strip after it leaves the rolls, means for heating the rolls, and means for conjointly adjusting both pairs of rolls to bring different portions thereof into operative relation with the mechanism for acting upon the shaped strip.

1,400,129. WATER-CLEANING PLANT. HEINRICH WEMMER, Frankfort-on-the-Main, Germany. Filed Feb. 16, 1916. Serial No. 78,735. 3 Claims. (Cl. 210—1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



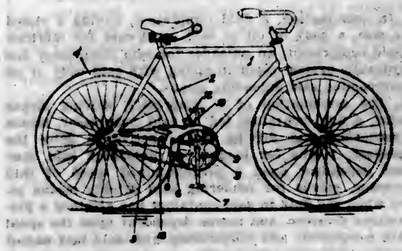
1. In a water cleaning apparatus, a casing, a tank positioned above the casing, means for dividing the tank into an upper and a lower compartment, a crude water tank in communication with the casing, a rotary dispenser within the casing having combs disposed on its periphery, said dispenser adapted to draw water from the crude water tank and simultaneously cause air to be mixed therewith, the combs adapted to convert the water and air into a spray and force the same into the lower compartment of the first mentioned tank, and means adjacent said dispenser for forcing the water by centrifugal action into the upper compartment of the first mentioned tank.

1,400,130. HINGE FOR DOORS AND THE LIKE. MAURICE ZÜTTEL, Paris, France. Filed May 19, 1913, Serial No. 768,659. Renewed Oct. 17, 1921. Serial No. 508,360. 3 Claims. (Cl. 16—130.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



3. In a hinge for doors and the like, a member adapted for attachment to the door and provided with a hinge pin, a slide movable in unison with said member, another member adapted for attachment to the door jamb and engaging said slide, the latter being provided with a longitudinal slot, a plate adapted to engage the slide on the side opposite to that engaged by said jamb member, and a clamping screw connecting the jamb member with the plate and extending through said slot of the slide.

1,400,131. SPROCKET-GUARD ATTACHMENT FOR BICYCLES. CHARLES S. ADAMS, Stockton, Calif., assignor, by direct and mesne assignments, of forty-nine one-hundredths to Howard A. Jones, Stockton, Calif. Filed Feb. 5, 1921. Serial No. 442,673. 2 Claims. (Cl. 208—145.)



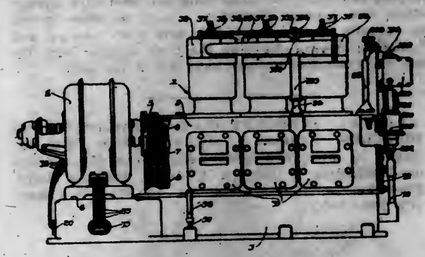
1. A sprocket guard for bicycles comprising a plate member adapted to partially surround the sprocket and chain adjacent thereto, and clamp members formed structurally integral with the plate, one of said clamps being adapted to embrace the vertical frame-bar of the bicycle and the other one the adjacent horizontal frame bar.

1,400,132. DRILL. JAMES BURWELL AGASSIZ, Hana Maui, Hawaii. Filed Apr. 4, 1921. Serial No. 458,230. 4 Claims. (Cl. 255—64.)



1. A drill comprising a hollow bit stock, a check valve on the upper end of said bit stock, a bit secured to the lower end of said bit stock embodying a plurality of arcuate cutting edges, and a ball secured to the upper end of said bit stock.

1,400,133. CONTROL SYSTEM FOR COMPRESSORS AND THE LIKE. BURTON S. AIKMAN, Milwaukee, Wis., assignor to National Brake & Electric Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed May 21, 1917. Serial No. 169,997. 118 Claims. (Cl. 230—24.)

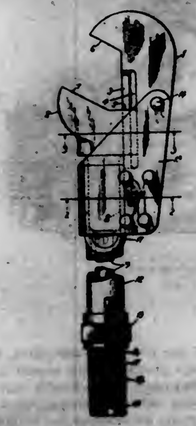


8. In combination, a fluid compressor, having a closed crank-case, a body of oil in said crank-case for lubricating said compressor, an unloader for said compressor and an hydraulic system communicating with said body of oil for overcoming said unloading means.

71. The combination of a compressor, driving means therefor, a fluid container fed by said compressor, means for rendering said driving means active to drive the compressor, means for loading or unloading said compressor dependent upon a predetermined speed of said compressor, means for rendering said driving means inactive when the fluid in said container has attained a predetermined pressure, and means dependent upon the speed of said compressor and coöperating with said last named means for rendering said driving means inactive after said compressor has been unloaded.

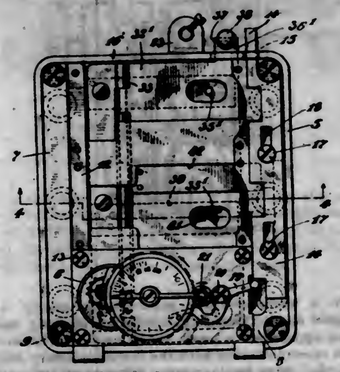
97. In combination, a compressor, a main reservoir, a motor, a starting resistance, a main switch for the motor, a starting resistance switch, operating cylinders for said switches, an auxiliary air reservoir charged from the main reservoir, means dependent upon a predetermined minimum pressure in the main reservoir for connecting the auxiliary reservoir to the main switch cylinder, means dependent upon the speed of the compressor for applying pressure to the starting resistance switch cylinder, the main switch cylinder having a leakage port for permitting the pressure of the auxiliary reservoir to leak away and permit opening of the main switch within a given period of time, and a detent for holding the main switch closed so long as the starting resistance switch is closed.

1,400,134. WRENCH. VICTOR A. ANDERSON, Elmwood Park, Ill. Filed Mar. 30, 1921. Serial No. 456,788. 1 Claim. (Cl. 81—164.)



In a wrench, a fixed jaw having its front edge diminished in thickness and an elongated groove terminating said edge, said groove being parallel to one of the edges of said jaw, a movable jaw operatively secured to said fixed jaw, said jaws being formed with parallel work-engaging surfaces disposed at an oblique angle to the jaw bodies, a lip integral with said movable jaw and projected over the diminished front edge portion thereof and into the said groove, and manually operable means for actuating said movable jaw, said means including a threaded core in engagement with the shank of said movable jaw.

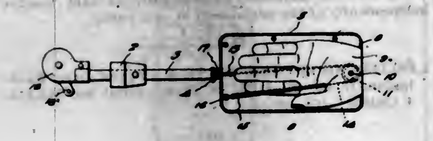
1,400,135. TIME-LOCK MECHANISM FOR SAFES. EDGAR M. BENHAM, Norwood, and CARL P. BARTELS, Hamilton, Ohio, assignors to The Mosler Lock Company, Covington, Ky., a Corporation of Ohio. Filed Dec. 11, 1920. Serial No. 429,857. 11 Claims. (Cl. 70—26.)



1. In locking mechanism, the combination of a door adapted to be locked to a door seat member, a bolt and

a timelock casing carried by said door, timelock mechanism carried by said casing, means tending to press said bolt into locking position, means operated by said mechanism to retract said pressing means at a set time, and means automatically operable to retract said pressing means whenever said mechanism is removed from said casing.

1,400,136. AUTOMOBILE-SIGNAL. LEROY AYERS BIGGAR and RUTHERFORD HAYES BIGGAR, Oneida, N. Y. Filed Nov. 2, 1920. Serial No. 421,326. 1 Claim. (Cl. 116—52.)



An automobile signal comprising a casing body, a tubular body connected with and extending endwise from the casing body and adapted to be affixed to an automobile portion, a flattened casing at the inner end of said tubular body, an actuating lever pivoted in said flattened casing and having spaced disk-like circular portions and also having an intermediate portion of less diameter than the disk-like portions between said portions, a signal member pivotally mounted in and movable out of and into the casing body, a pulley fixed with respect to and arranged alongside the signal member, a cable connected to said pulley and adapted to be taken up on the same, said cable being extended through the inner end wall of the casing and the tubular body and looped about the intermediate portion of the actuating lever and connected to said lever at a point outwardly beyond the disk-like portions thereof, and a retractile spring connected at one end to the casing and having at its opposite end a terminal portion that is connected to and adapted to be taken up on the pulley.

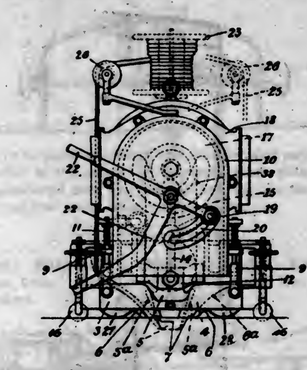
1,400,137. METHOD FOR TREATING RUBBER. WILLIAM H. BINNS, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 29, 1920. Serial No. 433,840. 9 Claims. (Cl. 18—53.)



1. The process of treating rubber comprising, shaping the rubber in desired form, and, before it has become set, placing it under compression.

1,400,138. CALKING-MACHINE. HENRY BREMNER, Broomhill, Glasgow, Scotland. Filed May 11, 1920. Serial No. 380,680. 7 Claims. (Cl. 114—224.)

1. A machine for calking or packing seams, joints, slots or grooves, comprising a vertically reciprocated tool, means for feeding packing to the tool, means for guiding and traversing the tool along the seam or the like, and an extension for the reception of the tool, said extension being fitted over the seam to form an enlarged seam to which the packing is supplied and in which the tool operates.



1,400,139. VANITY-CASE FOR PERSONAL WEAR. MARGARET H. BROSNAN, Washington, D. C. Filed Aug. 27, 1920. Serial No. 406,849. 1 Claim. (Cl. 41—14.)

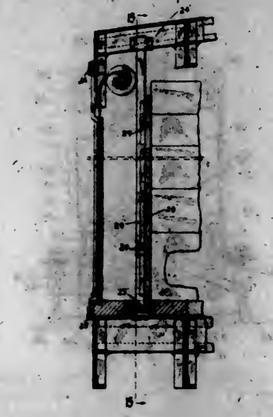


A device for personal wear comprising a receptacle body of pasteboard, a flanged cover member of pasteboard, a hinge joining the receptacle body and the cover member and connected of itself to the walls thereof, a fabric body surrounding the receptacle body and connected by adhesive thereto and provided with portions simulating leaves and with a portion simulating a flower stem, and a cap-like fabric body arranged over and connected by adhesive to the cover member and provided with portions simulating the petals of a flower and other portions simulating the pollen of a flower; said cap-like body simulating the portion of a flower by which the petals are carried.

1,400,140. CAR CONSTRUCTION. THOMAS J. CALLERY, Jersey City, N. J. Filed Sept. 25, 1920. Serial No. 412,781. 6 Claims. (Cl. 105—369.)

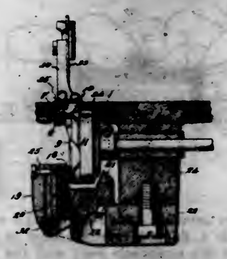
1. In a railway car, composed of a permanent frame construction comprising an under-frame, end frames and a roof frame, said frames rigidly connected with each other and having substantially open sides, a plurality of pocket-like sockets provided in the floor and at the under-frame, a plurality of open brackets provided at the roof frame and disposed opposite to and alined with said sock-

ets, removable posts adapted to engage the said sockets and brackets, sectional blockings held in place by said



posts within the car and adapted to prevent cargo from shifting against car doors, thus facilitating their closing and opening.

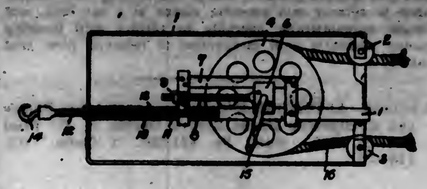
1,400,141. LOCK-STITCH SEWING-MACHINE. HERBERT CORRALL, Helensburgh, Scotland, assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed June 13, 1918. Serial No. 239,735. 8 Claims. (Cl. 112—231.)



1. In a lock-stitch sewing machine, in combination, a reciprocating needle, a rotary hook adapted to make a plurality of rotations for each reciprocation of the needle and formed with an open-sided raceway, said rotary hook being further formed with a loop-seizing beak and with a loop-arresting heel spaced circumferentially from and a substantial distance in advance of said beak, said rotary hook being shaped to permit the escape and drawing up of the needle-loop above the path of said beak before the latter reaches the needle-hole at the completion of its first or loop-seizing rotation, and a bobbin-case restrained against rotation within the field of action of said rotary hook.

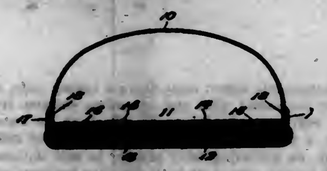
1,400,142. PULLEY. ALEXANDRE CYR, Iberville, Quebec, Canada. Filed May 12, 1919. Serial No. 296,877. 6 Claims. (Cl. 68—2.)

5. A pulley support, comprising an elongated frame; a pulley mounted in said frame and adjustable longitudinally thereof; an elongated horizontal supporting bracket with which said frame is connected; and means whereby said



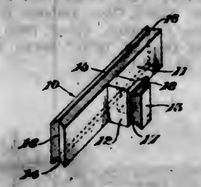
frame may be adjusted longitudinally of said bracket independently of the adjustment of said pulley.

1,400,143. SHOE CONSTRUCTION. FRANK DIAL, Washington, D. C. Filed Dec. 9, 1919. Serial No. 343,553. 4 Claims. (Cl. 36—4.)



1. The process of forming a shoe from the upper, and outer sole of rubber, and a rubber composition inner sole, consisting in inserting the inturned lower edges of the upper between the outer and inner soles, vulcanizing the inner and outer soles together whereby the inturned edges of the upper will be embedded within the united inner and outer soles, the outer sole being of greater width than the inner sole whereby to provide projecting edges, and in stitching said projecting edges of the outer sole onto the upper adjacent the lower edges thereof.

1,400,144. BUILDING CONSTRUCTION. OTTO A. DEICHMANN, Willows, Calif. Filed Jan. 26, 1921. Serial No. 439,006. 4 Claims. (Cl. 72—39.)

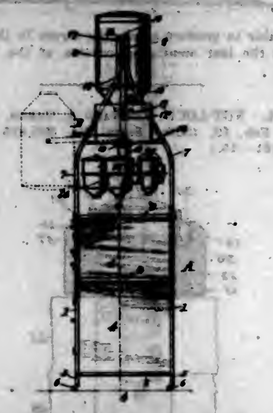


1. In a wall structure a building element comprising a slab of plastic material having a V-shaped rib extending along its upper edge, a V-shaped groove extending along its lower edge and V-shaped grooves extending vertically along the ends thereof, a wing member of rectangular section emanating from one side of the slab and midway the length thereof, and an enlarged head substantially hexagonal in section formed upon the end of the wing.

1,400,145. KITCHEN-CABINET. WAYNE A. DUNCAN, Chicago, Ill. Filed Nov. 27, 1920. Serial No. 426,695. 4 Claims. (Cl. 46—16.)

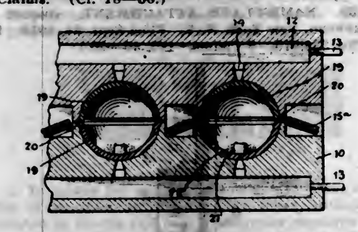
4. A cabinet of the class described, comprising a base portion and a superstructure consisting of upwardly extending members mounted on said base portion, a support or shelf arranged intermediate the upper and lower ends

of said superstructure members, a pair of pivotal links supported by the upper side of said shelf, a bin pivotally attached to said links, detachable means carried by the bin coöperating with the upper end of the superstructure for maintaining said bin in its normal position, a support carrying a rotating plate, comprising substantially a caster, secured to the under side of said shelf, a series of jars or



containers carried by said caster, a sliding top for said base portion, a sliding shelf carried within said top, upper and lower compartments dividing the base portion, subcompartments inside the upper compartment consisting of a food storage compartment and refrigerator compartments, and a water-cooler chamber surrounding said refrigerator compartments.

1,400,146. ART OF MAKING HOLLOW RUBBER ARTICLES. WALTER A. EGGERS, Brooklyn, and THERON DAVIS, New York, N. Y.; said Eggers assignor to said Davis. Filed Mar. 12, 1921. Serial No. 451,669. 7 Claims. (Cl. 18—56.)



1. The improvement in the art of making hollow rubber articles, which consists in shaping the article from unvulcanized stock in sheet form by the use of mold and core members, removing the core, retaining the shaped parts in the mold sockets by suction after the removal of the core, moistening with a rubber solvent or cement the edges of the formed parts at the surfaces to be united, uniting the edges and trimming the formed articles by pressure of the mold members, and then vulcanizing the formed articles in a separate mold.

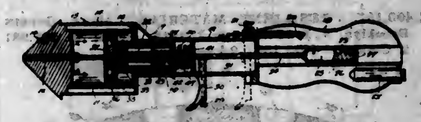
1,400,147. HATPIN. JOHN B. FITZPATRICK, New York, N. Y. Filed Apr. 8, 1921. Serial No. 459,686. 6 Claims. (Cl. 132—71.)

6. An assembly of the character described embodying a chambered pin point protector adapted to be secured at one side of a hat and provided with a smooth interior, a hat pin retainer adapted to be secured to the other side of the hat, and a hat pin embodying a plurality of telescoping sections having smooth coacting surfaces and



adapted to be passed through the retainer and project into the interior of the protector, in combination with locking means associated with the retainer and the pin for locking the pin against inadvertent displacement.

1,400,148. SOLDERING-IRON. ALONZO A. FRUM, Columbus, Ohio. Filed Jan. 28, 1921. Serial No. 440,069. 7 Claims. (Cl. 158—25.)



1. A soldering iron including a bit having a bore, a cylinder adjacent to the bit with which the bore communicates, a spring pressed plunger in the cylinder, means for heating the cylinder and bit, and a valve stem having a handle and having its forward portion extending into the bore of the bit and provided with grooves in its surface and also having a valve piece rearwardly of its grooved portion engageable with the bit around the rear end of its bore.

1,400,149. ELECTROTHERAPEUTIC APPARATUS. THOMAS W. GLEESON, Boston, Mass. Filed Dec. 17, 1920. Serial No. 431,372. 15 Claims. (Cl. 174—50.)

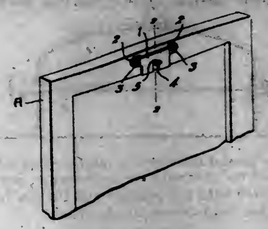


1. In a device of the class described, a self-contained portable holder, comprising, in combination, a plurality of positive electrodes and a plurality of negative electrodes all mounted upon the holder, each of said electrodes being arranged in operative relationship to one or more electrodes of the opposite polarity, means for connecting said electrodes with a source of electric current, and current control means provided on the holder, said control means being susceptible of simultaneous manipulation by the hand of the operator while said hand is employed in operating said device.

1,400,150. PICTURE-HANGER. PAUL J. GOBLE, Newark, N. J. Filed Sept. 3, 1920. Serial No. 408,019. 5 Claims. (Cl. 40—145.1.)

1. A hanger including a body portion of a strip of sheet metal adapted to be secured at its ends to an article to be hung, said body portion having a portion thereof offset so as to be spaced from said article and having a slot in said offset portion opening through the lower edge thereof out of alinement with the portions thereof fastened to said article to receive a headed supporting mem-

ber with the head thereof frictionally received between said body portion and the said article, whereby said hanger may yield to allow the article to swing at an



angle to the support and at the same time produce tight frictional engagement between the head of the supporting member and the article.

1,400,151. RESILIENT MATERIAL. MARK GOLBIN, Brooklyn, N. Y. Filed Apr. 7, 1919. Serial No. 287,981. 2 Claims. (Cl. 152—2.)



1. The combination with a vehicle wheel, of a rim comprising a metallic core having cup shaped depressions in its periphery, an elastic coating for said periphery, said coating extending into the depressions and providing suction cups.

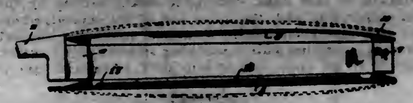
1,400,152. BOILER-FLUE CLEANER. JOHN H. GOODFELLOW, Buffalo, N. Y. Filed Feb. 5, 1921. Serial No. 442,682. 19 Claims. (Cl. 83—64.)



1. A boiler flue scraper comprising a shaft, a saddle mounted thereon, a hinge ring on said saddle, scraper blades having arms detachably connected at one end to said ring to expand and contract relatively to said shaft, means for guiding the free ends of said blades, and means on said blades and coöperating with said guiding means for limiting the expanding movements of the blades, said blades normally projecting above the plane of said guiding means.

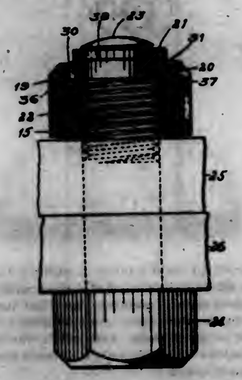
1,400,153. VIOLIN AND METHOD OF PRODUCING THE SAME. JAMES GORMAN, Chicago, Ill. Filed Aug. 12, 1920. Serial No. 403,015. 5 Claims. (Cl. 84—275.)

1. The method of producing a musical instrument of the viol and allied classes which comprises constructing the body frame of the instrument, forming one of the tables initially substantially flat and of a final thickness, providing a fulcrum upon one portion of the margin of the table and securing this fulcrum and portion of the table to the body frame, exerting pressure upon the opposite portion



of the table to produce a bending stress in the table, and securing the last mentioned portion of the table to the frame.

1,400,154. NUT-LOCK. EDWARD A. GREEN, Chicago, Ill. Filed Feb. 19, 1920. Serial No. 359,875. 5 Claims. (Cl. 151—15.)



1. The combination with a nut having a counterbore and recesses in the walls of said counterbore, of a retainer having lugs thereon which are movable in said recesses, and means limiting the movements of said lugs along said recesses.

1,400,155. NAME-PLATE ATTACHMENT. GEORGE G. GREENBURG, New York, N. Y. Filed Sept. 24, 1919. Serial No. 325,975. 5 Claims. (Cl. 40—20.)



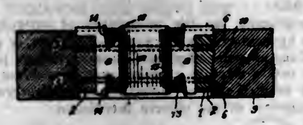
1. In a device for securing a name-plate to a part having an opening extending therethrough, the combination of a plate and attaching member therefor secured to its back, having an annular rim provided with forwardly and outwardly flared out-struck resilient tongues adapted to be sprung inwardly by said part when forced through the opening, said tongues having their free ends disposed to spring outwardly in opposed relation to and adjacent the inner face of said part for positively locking the plate against withdrawal.

1,400,156. ELECTRICALLY-HEATED SOLDERING-IRON. JAMES T. GRIFFITH, Oak Park, and WILLIAM A. TIMM, Berwyn, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 17, 1919. Serial No. 311,490. 4 Claims. (Cl. 219—28.)



1. In an electrically heated soldering iron, a heat conducting core having an extension thereon constituting a soldering tip, a heating unit surrounding said core, a casing surrounding said heating unit and having an open end beyond which the tip portion of the core extends, and a supporting member for said core comprising a plurality of radially extending arms secured to the casing wall and a cylindrical portion in engagement with said wall only at its end.

1,400,157. MEANS FOR ASSEMBLING COMMUTATORS. ARNOLD GROB, Cleveland, CHARLES B. KNOX, Wickliffe, and FRED J. BAIRD, East Cleveland, Ohio, assignors to The Homer Commutator Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 31, 1919. Serial No. 334,869. 7 Claims. (Cl. 29—89.)



1. In means for assembling commutators, the combination of an outer holding ring; an inner multi-part ring adapted to receive and hold commutator segments in their assembled position and having an exterior surface conforming with the interior surface of said outer ring; and elastic means for holding the parts of said multi-part ring together.

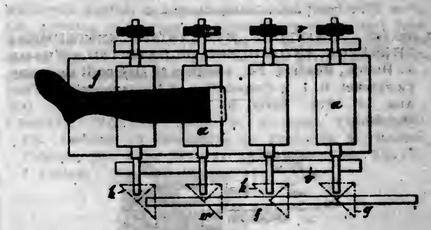
1,400,158. CHUCK FOR PHONOGRAPH-STYLI. MORRIS M. GAUBER, New York, N. Y., assignor to Pathe Freres Phonograph Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 29, 1918. Serial No. 225,430. Renewed Oct. 1, 1921. Serial No. 504,674. 2 Claims. (Cl. 279—78.)

1. A chuck for holding phonograph styli for playing records having record grooves of different types, comprising a chuck member having an angular bore extending part way therein and a cylindrical bore of reduced cross section in continuation of the angular bore, whereby the chuck is adapted to receive styli of a plurality of types, a lever pivoted in a slot provided therefor in the side of the chuck member, and a chuck sleeve screwed on the chuck member and adapted, upon being screwed on the chuck



member, to force the lever against the side of a stylus inserted in either of the bores of the chuck member.

1,400,159. MACHINE FOR MERCERIZING HOSE AND OTHER KNITTED FABRICS. ALFRED ERNEST HAWLEY, Hinckley, PERCY FIELD CROSLAND, Halifax, and FRANCIS GRAHAM DIXON, Cheadle Hulme, England. Filed Jan. 5, 1920. Serial No. 349,549. 3 Claims. (Cl. 8—20.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. Means for mercerising and washing hose and similar knitted or woven goods, said means comprising stretching forms or plates on which the goods are mounted, and a series of pairs of rollers between which pairs of rollers the forms are passed, each succeeding pair of rollers being driven at a greater peripheral speed than the preceding pair whereby the goods on the forms are firmly held or stretched while being subjected to the action of the mercerising agent.

1,400,160. PROCESS OF PRODUCING MALTED PEARL-BARLEY. ALBERT HEINEMANN, Berlin-Wilmersdorf, Germany. Filed July 22, 1921. Serial No. 486,852. 2 Claims. (Cl. 99—10.)

1. The herein described process of treating barley, which consists in steeping the barley until it swells and germination commences, thereupon subjecting the barley to a preliminary drying action to interrupt the germination at a stage where the diastase produced by germination has converted only the outer starch portion of the kernel beneath the husk into sugar, completing the drying of the barley, and finally peeling the treated barley to obtain pearl barley.

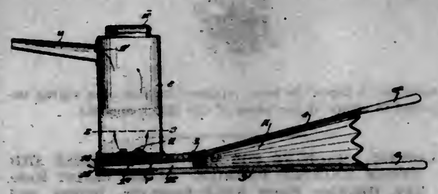
1,400,161. PROCESS FOR PRODUCING A SUBSTITUTE FOR RAW COFFEE-BEANS. ALBERT HEINEMANN, Berlin-Wilmersdorf, Germany. Filed July 22, 1921. Serial No. 486,853. 2 Claims. (Cl. 99—11.)

2. The process for producing from barley a substitute for coffee in the form of an article of commerce corresponding with raw coffee beans, which consists in subjecting the grain to an incomplete germination process, drying and hulling it, steeping it in an infusion of hop flowers until it swells up and then drying it until the contents of water agrees approximately with that of the natural grain.

1,400,162. POWDER-BLOWER. THOMAS C. HOLMES, San Francisco, Calif. Filed June 24, 1918. Serial No. 241,498. 3 Claims. (Cl. 43—147.)

1. In a powder blower of the character described, the combination with the bellows connected by an air passage with the powder container, of a pair of vertically extending

guide lugs formed in the bottom of the container and positioned on opposite sides of the air passage, a valve plate positioned between the lugs, said valve plate being re-



cessed at its opposite ends for the reception of the lugs, and an angular horizontally disposed extension on the upper end of each lug to limit the upward movement of the valve with relation to the bottom of the container.

1,400,163. KNITTING MECHANISM, INSTRUMENT THEREFOR, AND METHOD OF KNITTING. WILLIAM A. HOUCK, Reading, Pa., assignor to Hemphill Company, Pawtucket, R. I., a Corporation of Massachusetts. Filed Aug. 12, 1919. Serial No. 317,668. 26 Claims. (Cl. 66—26.)

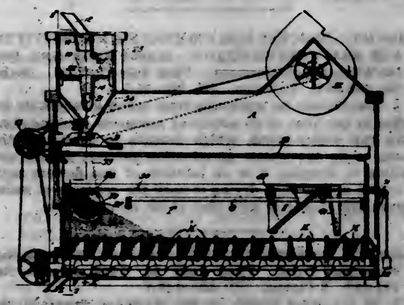


7. Knitting mechanism comprising in combination a series of needles and a series of sinkers including interspersed special sinkers or instrumentalities, and operating means to cause the special sinkers or instrumentalities to measure off or take additional yarn and thereafter to prevent robbing, thereby securing the permanent apportionment of such additional yarn.

1,400,164. WATERPROOFING MATERIAL AND PROCESS FOR MAKING THE SAME. HENRY HICKS HUNT, New York, N. Y. Filed Nov. 27, 1918. Serial No. 264,442. 10 Claims. (Cl. 134—1.)

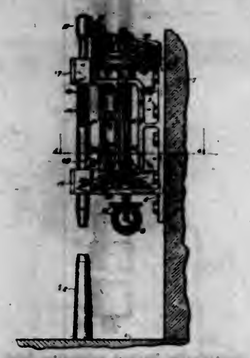
9. A composition of matter containing insoluble soap and sodium sulfate with sulfite waste liquor free from lime.

1,400,165. PURIFYING MIDDLINGS AND OTHER MATERIAL. EMANUEL S. JEWELL, deceased, Brooklyn, N. Y., by Lida Jewell, executrix, Brooklyn, N. Y. Filed Mar. 5, 1921. Serial No. 450,018. 16 Claims. (Cl. 83—38.)



1. In a separating machine, the combination with separating mechanism, a stationary feed hopper for said mechanism, discharge means for a portion of the separated material, and means for returning a portion of the separated material to said feed hopper, of means controlled by the quantity of material in said stationary feed hopper for varying the amount of material returned to the feed hopper by said return means.

1,400,166. POWER-HAMMER. ERIC FRITJOF KARLSON, Beaumont, Tex. Filed May 13, 1920. Serial No. 381,098. 5 Claims. (Cl. 78—27.)

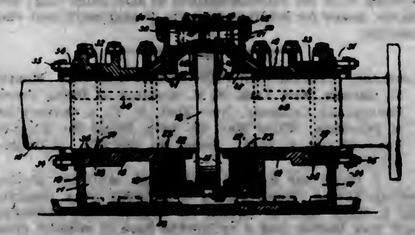


1. In a power hammer, a casting, a rotary shaft journaled in said casting, a plunger hammer arranged in said casting in spaced parallel relation to said rotary shaft, a cam wheel fast upon one end of said rotary shaft, means connecting said cam wheel and plunger hammer for raising said latter member, said means including a roller adapted to travel over one edge of said cam wheel, and means adapted to frictionally grip said plunger hammer immediately after said roller has passed beyond the extreme high point of said cam wheel.

1,400,167. PROCESS FOR THE PRODUCTION OF SOLID BASIC MAGNESIUM HYPOCHLORITE. GEORG KERSHOFF and EMIL WOLF, Ujpest, Hungary. Filed Apr. 8, 1920. Serial No. 372,331. 7 Claims. (Cl. 23—13.)

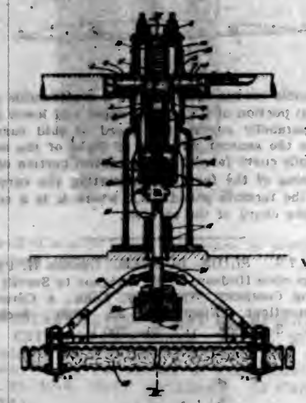
1. A process for the production of solid basic magnesium hypochlorite by the action of chlorin on magnesium oxid in the presence of water, characterized by introducing chlorin into a mixture of water and magnesium oxid, containing more than two molecules of magnesium oxid for each molecule of the chlorin introduced.

1,400,168. BEARING. ALBERT KINGSBURY, Pittsburgh, Pa. Filed Mar. 14, 1918. Serial No. 222,836. 54 Claims. (Cl. 64—25.)



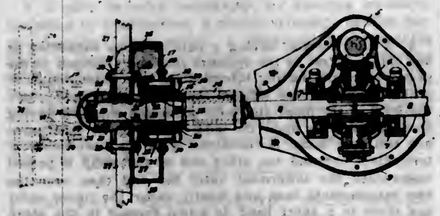
1. A bearing structure comprising a sector-shaped support provided with fixed end members, a series of equalizing plates supported thereon partially on the end members and partially on each other, and bearing shoes mounted on the said equalizing plates.

1,400,169. VIBRATING MECHANISM. FRED E. KLING, Youngstown, and LUTHER B. WEIDLEIN, Cleveland, Ohio. Filed Jan. 13, 1921. Serial No. 436,992. 4 Claims. (Cl. 183—44.)



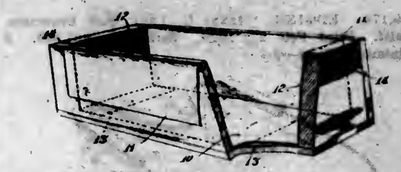
1. A vibrating device comprising a casing, a cylindrical plunger member mounted within said casing, means for guiding said plunger within said casing, a rotary shaft journaled in bearings on said casing and passing through said plunger, an eccentric mounted on said shaft, a bearing mounted on said eccentric, a spring member having its one end abutting said bearing and its other end abutting the top of said plunger, a second spring member having its one end abutting said bearing and its other end abutting the botttom of said plunger, the rotation of said eccentric being adapted to actuate said springs to cause a reciprocation of said plunger.

1,400,170. DEMOUNTABLE DRIVE MECHANISM FOR AUTOMOBILES. EDWARD L. KRAFT, York, Pa., assignor of one-half to A. R. Cosgrove, York, Pa. Filed July 1, 1920. Serial No. 393,333. 4 Claims. (Cl. 180—75.)



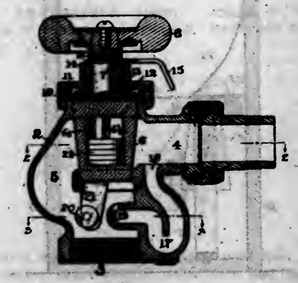
1. In an automobile, a drive-axle provided with a shoulder, an axle-casing surrounding said axle, a bearing engaging said shoulder, a hub on the axle retaining the inner-race-way of the bearing against the shoulder, a bearing-housing fixed to the end of the axle-casing, a retaining cap for the outer-race-way of the bearing, and to said bearing, and fastening means for securing said retaining-cap to said bearing-housing from the outside, said fastening means also holding the axle carrying the wheel in driving relation.

1,400,171. PROCESS OF PREPARING CHEESE. JAMES L. KRAFT, Chicago, Ill. Filed Feb. 21, 1921. Serial No. 446,674. 3 Claims. (Cl. 99—8.)



2. The improvement in the art of preparing cheese of a normally solid variety, which consists in comminuting previously manufactured cheese, stirring and heating the same until the mass has attained a uniform consistency and is capable of flowing to assume the shape of a container, and inclosing a definite portion of the fluid mass, while still heated, in a rectangular mold lined with metal foil, forming on cooling, a finished mercantile unit from which the retailer may cut slices or sections of like area and of different thicknesses to suit the particular weights desired by the consumer.

1,400,172. VALVE. HOSEA K. KRIEBEL, Philadelphia, Pa., assignor of one-fourth to Frederick L. Kriebel, Chicago, Ill. Filed Sept. 17, 1920. Serial No. 410,875. 7 Claims. (Cl. 277—31.)



1. A steam valve comprising a valve body having inlet and outlet ports and a main valve seat between them and also having a water sealed passage between the inlet and outlet ports arranged as a by-pass about the main valve seat, combined with a main valve for controlling the main valve seat, and an auxiliary valve movable with the main valve to control the water sealed by-pass whereby when the water sealed by-pass is closed, the main valve is also closed and the main valve may be adjusted for controlling communication between the inlet and outlet ports without closing the auxiliary valve.

1,400,173. METAL WHEEL. MAURICE LACHMAN, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Nov. 17, 1919. Serial No. 338,421. 13 Claims. (Cl. 301—66.)



1. A metal wheel formed of a section of flanged metal bar having flanges at both edges, both bent to the form of

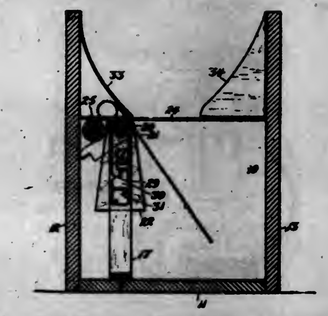
the rim, while the spokes in two sets consist of sub-divided portions of the base integrally joined at the hub part of the wheel.

1,400,174. EDGING. HENRI G. LEVY, San Francisco, Calif. Filed Feb. 27, 1920. Serial No. 361,805. 2 Claims. (Cl. 4—2.)



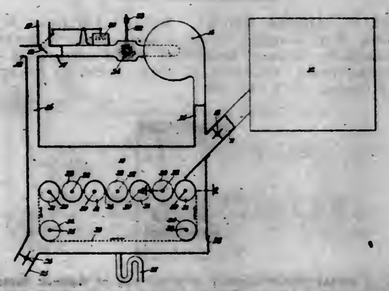
1. An edging strip of the character described, comprising a body portion centrally and longitudinally bifurcated, and a lip extending along each upper edge of said body portion and each lip being curved in an upwardly and forwardly extending manner for the purpose described.

1,400,175. ANIMAL-TRAP. HUGH C. MCCURRIN, San Francisco, Calif. Filed Nov. 3, 1920. Serial No. 421,445. 9 Claims. (Cl. 43—70.)



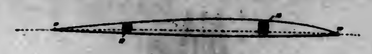
2. In a trap of the character described an inclosure, a platform tiltable longitudinally and transversely forming a top therefor and means associated therewith to hold the platform against tilting transversely until the same is tilted longitudinally.

1,400,176. PROCESS FOR THE PREVENTION OF ADHERENCE OF MOIST PARTICLES. MAX F. MANGELSDORFF, Union Hill, N. J. Filed Sept. 20, 1918. Serial No. 254,900. 2 Claims. (Cl. 99—5.)



1. The process of producing dry inadhering vegetable particles which comprises heating the particles in the presence of a moist medium, subjecting the heating particles to the action of a current of cool moist air and drying the particles.

1,400,177. AEROFOIL. JAMES V. MARTIN, Elyria, Ohio. Filed Nov. 30, 1917. Serial No. 204,602. 14 Claims. (Cl. 244—12.)



1. A double convex aerofoil with a considerable part of the central portion of its normal upper and lower surface forming parabolic curves, the chord of said curves extending in the general direction of flight of the aerofoil, the parabolic curve formed by the central portion of upper surface being of the form approximating the curve indicated by the formula $y^2=.187KX$ where K is a constant equal to the chord of the aerofoil.

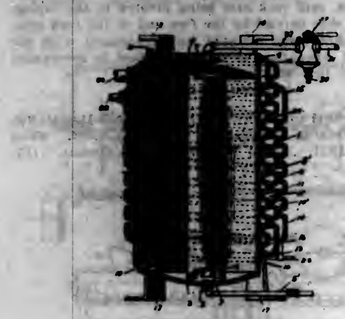
1,400,178. SLIDE-BUCKLE. GEORGE H. PERKINS, Hastings-upon-Hudson, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Jan. 22, 1920. Serial No. 353,214. 3 Claims. (Cl. 24—200.)



1. A slide buckle, having a pair of loops connected at one side and free at the opposite side and arranged in the same plane, and having intermediate bars extending integrally from the free side of the loops and raised above the level of the loops and their connected side and having free ends resting upon the side connection so that when one end of a strap is connected with the lowermost intermediate bar and the other end of the strap is passed underneath the lowermost outer bar and then over the two intermediate bars and finally under the upper outer bar there is a short bend or hump formed in the strap that serves to insure the fixed location of the buckle and prevent it from slipping or creeping.

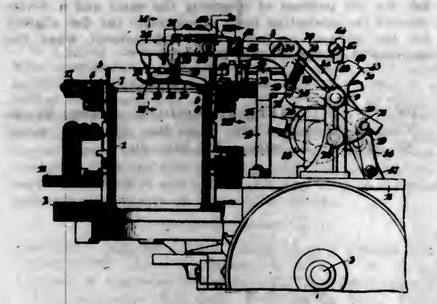
1,400,179. OIL-FUEL HEATER. LOUIS A. PERRIER, San Francisco, Calif. Filed Feb. 11, 1920. Serial No. 357,880. 13 Claims. (Cl. 257—10.)

7. A heater including a drum having an oil inlet, a steam jacket formed by a spirally corrugated wall surrounding and joined to said drum, an oil jacket formed by a spirally corrugated wall surrounding and joined to the wall of said steam jacket, and connected with said drum and having an outlet, a second steam jacket formed by a spirally corrugated wall surrounding and joined



to the wall of said oil jacket, and means for passing steam through said steam jackets.

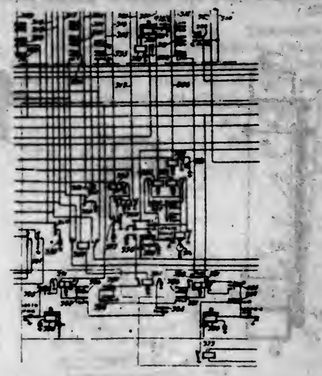
1,400,180. YARN SEVERING AND CLAMPING DEVICE FOR KNITTING-MACHINES. ALBERT M. PIGEON, Norristown, Pa., assignor to Wildman Mfg. Co., Norristown, Pa., a Corporation of Pennsylvania. Filed Sept. 21, 1916. Serial No. 121,405. 13 Claims. (Cl. 66—12.)



1. A yarn severing mechanism for knitting machines, including in combination, a needle cylinder; needles carried thereby; yarn guides, a relatively fixed shearing blade, a movable shearing blade, a spring for actuating said last named blade for its shearing action; an oscillatory cam; and devices coöperating with said cam to shift and set said movable shearing blade against the tension of the spring, to hold said blade in its set position, and to trip said blade, all during movement of said oscillatory cam one way.

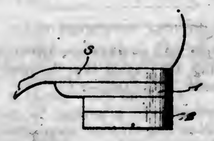
1,400,181. SEMI-AUTOMATIC TELEPHONE-EXCHANGE SYSTEM. LIPA POLINKOWSKY, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 23, 1918. Serial No. 259,342. 6 Claims. (Cl. 179—27.)

1. In a telephone exchange system, the combination with a plurality of operators' positions, calling lines, means for extending said lines to said operators' positions, automatic selective switches for extending said lines from said positions, means at one of said positions controlled by its operator for normally preventing the extension of calls to said position, means at a second operator's position adapted to permit the extension of calls from said first operator's position and retaining the same accessible at said second operator's position, and means at said second



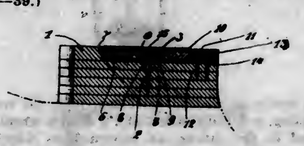
operator's position for controlling all stages of the establishment of connections to it in the same manner as calls directly connected to said second operator's position.

1,400,182. REVERSIBLE HEEL. ELLEN F. QUINN, Corona, N. Y. Filed Dec. 22, 1919. Serial No. 346,493. 1 Claim. (Cl. 36—39.)



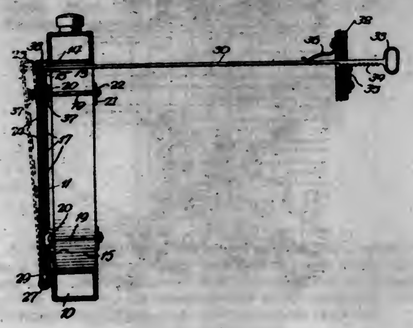
A reversible heel comprising a permanent heel portion having a socket cut from its lower face and having a recess in its lower face forming a seat positioned about and in spaced relation to the socket, a ring positioned in the seat about the socket, a disk fitting against the portion of the permanent heel portion inclosed by the ring and extending in overlapping relation to the ring, the portion of the permanent heel portion inclosed by the ring engaging the inner face of the disk, a boss extending from the plate into the socket and having a threaded opening, a heel fitting beneath the permanent heel portion and having the ring connected with its upper face, and a securing screw extending through the permanent heel portion and into the threaded opening of the boss.

1,400,183. HEEL. JAMES G. ROBERTSON, New York, N. Y. Filed May 20, 1918. Serial No. 235,487. 3 Claims. (Cl. 36—39.)



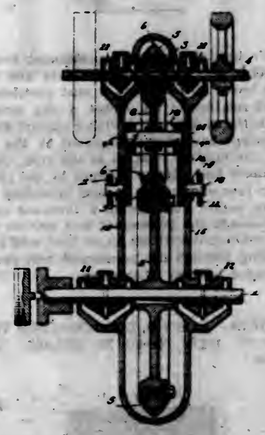
1. In a device of the class described, the combination with a heel having a recess formed in its lower surface, a casing rotatively mounted in said recess, means for rotatably supporting said casing, a disk inserted within said casing, and a metallic strip located behind said casing and forming a portion of the inclosure thereof.

1,400,184. RADIATOR-SHIELD FOR MOTOR-VEHICLES. HERBERT J. SAUVAGE, Chicago, Ill. Filed Feb. 20, 1919. Serial No. 278,281. 14 Claims. (Cl. 257—732.)



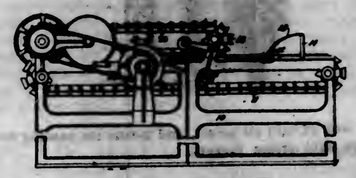
2. A radiator shield for motor vehicles, said shield embodying two coöperating elements arranged one in advance of the other, and means for connecting the elements for swinging movement relatively one with relation to the other and one toward and away from the other, said elements being provided with openings therethrough, the openings in one of the elements being arranged and maintained out of registering relation with respect to the openings in the other element.

1,400,185. POWER-TRANSMISSION DEVICE. HIESTER SEIDERS, Reading, Pa. Filed Sept. 2, 1919. Serial No. 321,077. 1 Claim. (Cl. 192—4.)



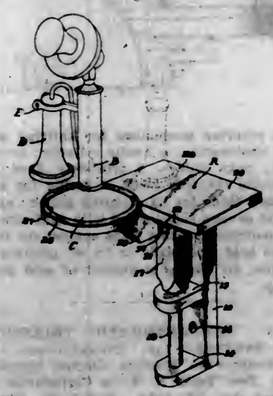
In a device of the character described, the combination of a casing, a driving wheel and a driven wheel rotatably mounted in the casing, an intermediate wheel, a shaft therefor, said casing having elongated slots in which said shaft may move longitudinally, a pair of links loosely engaging said shaft at one of their ends and having studs formed on their opposite ends, said studs being mounted in bearings in the casing and projecting beyond the outer surfaces of the casing, arms mounted on the outer ends of said studs, an operating rod pivotally engaging the other ends of said arms, a jaw-like rock arm secured to said shaft between the sides of the intermediate wheel and the links, said rock arm being pivoted to the casing, and a brake shoe carried by the free end of the rock arm, said brake shoe being adapted for engagement with the driven wheel when the intermediate wheel is disengaged from contact therewith.

1,400,186. FISH CUTTING AND CLEANING MACHINE. HOWARD DANIEL SAVERANCE, Monterey, Calif. Filed June 15, 1921. Serial No. 477,634. 4 Claims. (Cl. 17—10.)



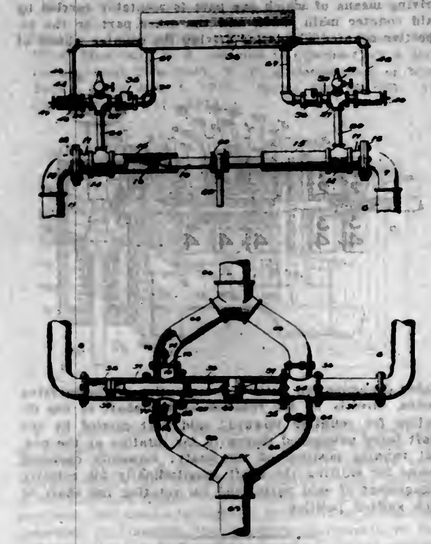
1. In a machine of the class described, a conveyer provided with pockets, each to receive a fish with the heads projecting therefrom, an overhead device to clamp the fish in place within the pockets, a severing device to deliver a downward blow to the projecting heads of the fish for the purpose of removing the same and a device beneath the projecting head to penetrate the fish slightly for the purpose of preventing displacement when the severing device strikes the head.

1,400,187. SWINGABLE TELEPHONE. JOSEPH ELMER THOMAS, Sawtelle, Calif. Filed Mar. 22, 1921. Serial No. 454,554. 5 Claims. (Cl. 248—20.)



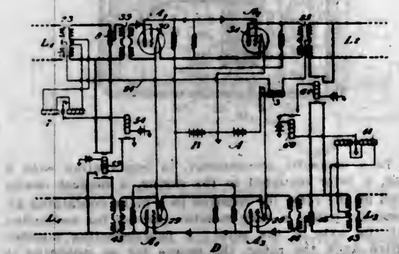
1. A telephone bracket comprising an attaching face plate, a post rotatably supported by the face plate, a radially extending supporting arm carried by the post, a telephone receiving base plate secured to the outer end of the arm, and a top plate secured to the arm in rear of the base plate.

1,400,188. PUMP. MARET SAMUEL TUCKER, Joplin, Mo., assignor of one-half to Edmund T. Nesbitt and John L. Shafer, Joplin, Mo. Filed Jan. 28, 1921. Serial No. 440,780. 12 Claims. (Cl. 103—68.)



4. A pump comprising a cylinder having its ends formed with couplings, a pair of cylinders connected to said couplings in alinement with said first named cylinder, a piston within said first named cylinder, a pair of pistons arranged on opposite sides of said first named piston and arranged within said pair of cylinders, said first and second named pistons being connected, and suction members connecting the said couplings, and fluid pressure conveyers connected to said pair of cylinders whereby the fluid pressure acts directly on said pair of pistons.

1,400,189. MEANS FOR CONTROLLING REPEATER-CIRCUITS. JOHN F. TOOMEY, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 16, 1917. Serial No. 196,898. 18 Claims. (Cl. 179—170.)



1. A signaling system comprising a pair of switching stations, a transmission line interconnecting said stations, terminal lines associated with said stations adapted to be switched into connection with said transmission line, a repeater in said transmission line, and means whereby said repeater may be controlled from one of said stations independently of voice currents transmitted over said transmission line.

16. In a signaling system, two stations, an amplifier at one of said stations, a potentiometer for controlling the amplification of said amplifier, and means controllable from the other station to adjust the potentiometer.

1,400,190. ADVERTISING DISPLAY. THADDEUS C. TUCKER, San Francisco, Calif., assignor to California Almond Growers Exchange, San Francisco, Calif., a Corporation of California. Filed Aug. 31, 1920. Serial No. 407,197. 4 Claims. (Cl. 40—126.)



2. An advertising display consisting of a sign; a container formed of the same material as said sign, detachably secured thereto; and a handle thereon detachably secured to said sign.

1,400,191. FOOD PRODUCT AND PROCESS OF MAKING THE SAME. PERRY C. WADSWORTH, Santa Ana, Calif., assignor to Taylor's, Santa Ana, Calif., a Corporation of California. Filed Nov. 17, 1919. Serial No. 338,454. 1 Claim. (Cl. 99—11.)

The process of making a food product which consists in cooking citrus fruit with its peel until tender, removing the cooked fruit from the liquid containing the oil and terpenes, mixing sugar and uncrystallizable cane sugar with the fruit thus treated, heating the mixture to boiling temperature, draining off the surplus liquid, molding the residue and drying to produce a substantially flat cake or slab of uniform consistency and permanent character.

1,400,192. PROCESS OF OBTAINING POTASSIUM COMPOUNDS. MILTON C. WHITAKER, New York, N. Y., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Dec. 31, 1917. Serial No. 209,606. 14 Claims. (Cl. 23—22.)

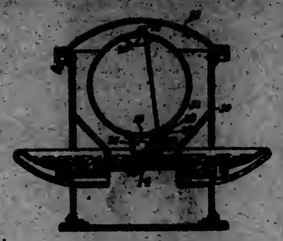
7. The process of recovering potassium compounds from distillery waste or slop which comprises spraying the latter into contact with vapors containing silicon tetrafluorid.

1,400,193. CONTAINER FOR VOLATILE LIQUIDS. MILTON C. WHITAKER, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Aug. 6, 1920. Serial No. 401,694. 15 Claims. (Cl. 221—11.)



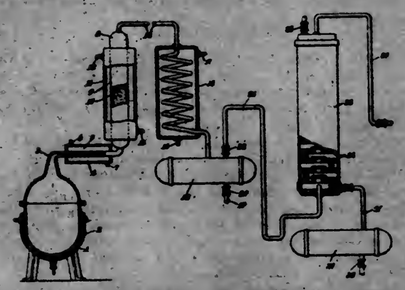
1. A container for volatile liquids having a puncturable diaphragm, an opening giving access to said diaphragm and a nozzle carried in said opening.

1,400,194. STOCK-WATERING TANK. Charles O. Wetzell, Des Moines, Iowa. Filed June 21, 1920. Serial No. 390,375. 1 Claim. (Cl. 119—72.)



In a device of the class described, a cylindrical tank arranged in substantially horizontal position, a tubular discharge passage leading from the bottom of said tank, a trough below said tank into which said discharge passage projects, a filling funnel device mounted in the upper part of said tank, said tank having in its upper wall a longitudinally arranged, inwardly opening, outwardly projecting channel, and an air exit tube leading from the upper part of said channel and thence downwardly into said trough.

1,400,195. PROCESS OF MAKING METHYL FORMATE. Herman F. Willkie, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Dec. 24, 1918. Serial No. 268,189. 10 Claims. (Cl. 23—24.)



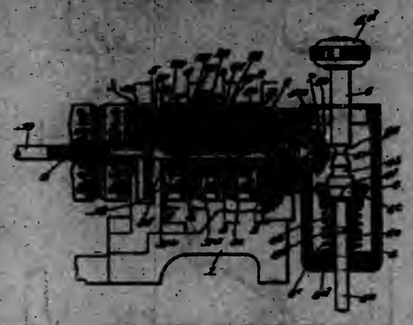
1. The process which comprises subjecting methyl alcohol to the action of a metallic catalyst so as to form methyl formate, the catalytic action taking place at a temperature lying between about 350 and about 450 degrees F.

1,400,196. PROCESS OF PRODUCING HOMOGENEOUS PRODUCTS, INCLUDING FILMS. Herman F. Willkie, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Apr. 12, 1920. Serial No. 373,084. 2 Claims. (Cl. 106—37.)

1. The process which comprises forming a film by evaporating a solution of a cellulose ester in a solvent consisting of an ester having a dehydrating action and an alcohol adapted to form a constant boiling mixture with and carry off water during the evaporation of the solvent.

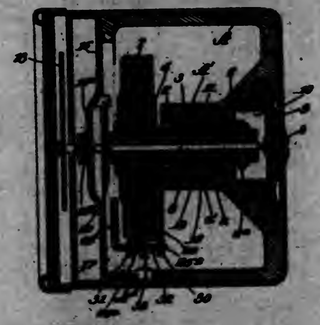
1,400,197. REVOLUTION-COUNTER RESETTING. Andrew C. Wood, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Sept. 20, 1920. Serial No. 413,702. 9 Claims. (Cl. 235—144.)

1. In a revolution counter, in combination with a series of counter wheels for successive decimal denominations; a counter shaft upon which the counter wheels are carried; permanently engaged but sliding connections between the wheel of lowest denomination and the next higher, and each wheel of lower denomination to the next higher, adapted to operate similarly in either direction of rotation; one-way driving means of which one part is rotatably carried by said counter main shaft, and the other part by the respective counter wheels for driving the counter wheels of



higher denomination without intervention of the carrying means, directly by the rotation of the shaft in the direction for counting upward; said part carried by the shaft being unengaged therewith for rotation at the normal running position of the shaft; manually operated means for shifting the shaft longitudinally for rotative engagement of said parts, and for rotating the shaft at such shifted position.

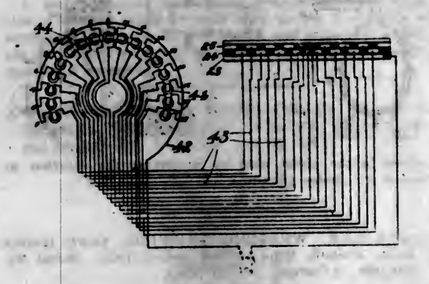
1,400,198. MAGNETIC SPEEDOMETER. Andrew C. Wood, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Oct. 16, 1920. Serial No. 417,449. 7 Claims. (Cl. 264—13.)



1. In a magnetic speedometer, in combination with a casing, a rotor mounted in the casing, a magnet device carried by the rotor for rotation in a plane containing all the magnet poles; a drag member pivoted for oscillation about the axis of the rotor; a field-deflecting member mounted upon the rotor, the means for so mounting it comprising a bracket extending from the rotor radially beyond the circumference of the magnet path of rotation, and the field deflector having its end which is free for movement positioned opposite the inter-polar gap of the magnet, and being for movement of its free end toward and from the magnet poles, pivoted to the bracket outside said path at a point such that the pivot axis produced extends past the free end of the deflector at the side

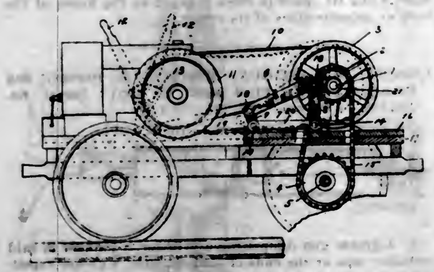
thereof toward the rotor axis, and at a substantial distance from said free end, and means for adjusting the deflector about its pivot to vary the distance of its free end from the magnet poles.

1,400,199. INDICATING MECHANISM. Frank W. Wood, Montclair, N. J., assignor to Charles Cory & Son, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 4, 1919. Serial No. 269,683. 12 Claims. (Cl. 177—337.)



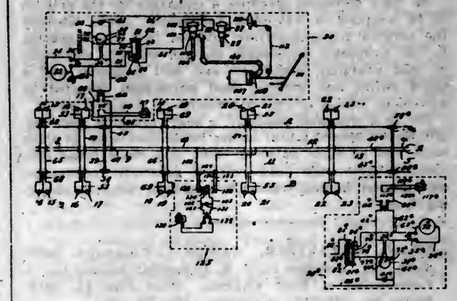
1. In mechanism for automatically indicating positions of swinging or oscillating structures and wherein the indicator includes a plurality of normally-inactive indicating members each indicating a definite angular position of the structure, means for controlling the activity of the members, said means including a transmitting mechanism operative to translate the structure movements to the indicator through independent electrical circuit connections, said latter mechanism including a pair of stationary circuit make and break contacts each having segments individual to predetermined members, and a contactor movable relatively to said contacts, said contacts having a predetermined segment of one contact overlapping a segment zone of the other contact to produce a distinct indicating signal representing a definite angular distance in structure travel.

1,400,200. DRIVING MECHANISM. Horace E. Woolsey, St. Paul, Minn. Filed Aug. 27, 1920. Serial No. 406,515. 2 Claims. (Cl. 74—21.)



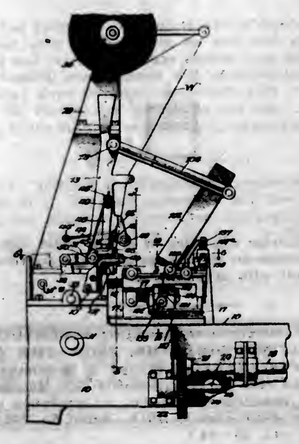
1. A drive mechanism comprising a driving member, a driven member, a pivoted frame intermediate said driving member and driven member, comprising linkage, a shaft carried by said pivoted frame, and operative connections between said driving member and shaft, and between said shaft and driven member, and means for moving said frame to tighten or loosen the operative connection between said shaft and driving member while maintaining said shaft at a substantially constant distance from said driven member.

1,400,201. AUTOMATIC TRAIN-STOPPING, TELEPHONIC, AND BLOCK-SIGNAL SYSTEM. William H. Adkins, Kansas City, Kans. Filed Aug. 14, 1917. Serial No. 186,244. 24 Claims. (Cl. 246—11.)



5. An electric signaling system for railroad trains, consisting of block conductors electrically connected to the track, a contact on the train to traverse said block conductors, a piston connected to the locomotive throttle to close the same, a cylinder in which said piston is reciprocably mounted, a pipe to conduct fluid under pressure to said cylinder to actuate the piston, a normally closed valve connected to said pipe to control the flow of fluid therethrough, an electromagnet to open said valve, a circuit for energizing said electromagnet, a source of electrical energy connected to said circuit, conductors connecting said source to the contact which traverses the block conductors, a self-closing switch to close the circuit, a latch to normally hold said switch open, an electromagnet in the circuit to release the latch from said switch, and a meter to close that portion of the circuit leading to said electromagnet to energize the same.

1,400,202. WRAPPING-MACHINE. Harry Y. Armstrong, Syracuse, N. Y., assignor of one-half to William L. Hall, Chicago, Ill. Filed Apr. 26, 1920. Serial No. 376,729. 102 Claims. (Cl. 93—2.)



1. A wrapping machine comprising a movable carriage into which an article and its wrapper are placed, and

means for advancing said article and wrapper relatively to and through the carriage to wrap the wrapper about the article, said means including an element which engages said article and wrapper and is stationary while in engagement.

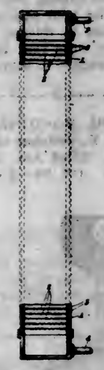
47. In a wrapping machine, a magazine for the articles to be wrapped, a wrapping mechanism, means whereby the articles are successively released from the magazine to the wrapping mechanism through relative movement of said wrapping mechanism and said magazine, and a paper cutter and wrapper feed mechanism operated by movement of one of the said relatively movable parts.

98. In a wrapping machine, a shaft provided with longitudinally spaced plural holder heads that open at their sides and at their adjacent ends, said shaft being provided between said heads with a generally rectangular enlargement having transversely oblique wrapper engaging faces.

1,400,203. CATALYZER. ARTHUR A. BACKHAUS, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed June 15, 1918. Serial No. 240,222. 4 Claims. (Cl. 23—28.)

1. A catalyzer comprising an inert carrier containing a finely divided highly porous catalytic metal free from metallic oxids.

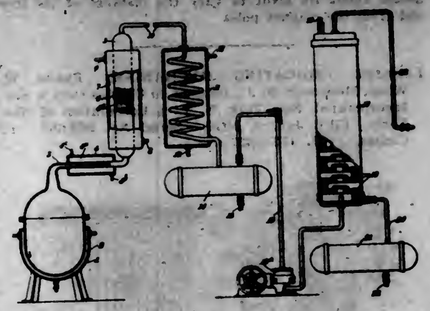
1,400,204. CATALYZER AND CATALYZER-APPARATUS. ARTHUR A. BACKHAUS, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed June 15, 1918. Serial No. 240,224. 10 Claims. (Cl. 23—28.)



8. A catalyzer consisting of a thin metal body whose outside portions are of the same metal and are voluminous and integral with said body.

1,400,205. METHOD OF MAKING ALDEHYDES AND SEPARATING THE SAME FROM THE OTHER PRODUCTS FORMED. ARTHUR A. BACKHAUS, Baltimore, and FRED B. ARENTZ, Curtis Bay, Md., assignors to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed June 15, 1918. Serial No. 240,225. 6 Claims. (Cl. 23—24.)

1. The process which comprises passing vapors of alcohol over a catalytic agent, thus forming acetaldehyde, then separating the resulting aldehyde and hydrogen by passing the vapors through a scrubbing tower containing acetic acid and forming acetic acid from the aldehyde thus



solved in the acetic acid by subjecting the solution to heated air under pressure.

1,400,206. WEATHER-STRIPPING. ELWIN HARRIS BERG, Eveleth, Minn. Filed Dec. 3, 1920. Serial No. 428,020. 3 Claims. (Cl. 20—69.)



1. The combination with a window jamb and sash, of a metal weather stripping consisting of a body portion having a hump engaging the side of the sash and provided with jamb connecting means at one side of the hump, and means at the opposite free side of the hump having sliding engagement with one face of the sash whereby to shift the body portion with the sash when the latter shrinks from the jamb and thus maintain uniform contact between the hump of the body and the side of the sash, said sash having along its side a vertical slot forming relatively sharp edges along its opposite sides engaged by the hump of the body at opposite sides of its center.

1,400,207. GREASE-GUN. BERTRAND C. BLIVEN, San Francisco, Calif. Filed Feb. 26, 1921. Serial No. 448,155. 4 Claims. (Cl. 221—78.)



1. A grease gun comprising a cylinder, a plunger in said cylinder, caps at the ends of said cylinder, a grease expelling spout attached to one of said caps, a partition within the cylinder at a point spaced from but adjacent to one end therein, said partition having an opening extending therethrough, a valve extending through the other cap and movable into and out of said opening to regulate the flow of air through the opening, said valve having a passage extending therethrough and opening at one end into the cylinder and at its other end at the outer end of the valve and means for providing for connection of a compressed air hose to the outer end of the valves so as to inject air into the cylinder.

1,400,208. INSTRUMENT-BOARD LAMP. CARL BRAMMING, Chicago, Ill., assignor to Accessories Manufacturing Company, a Corporation of Illinois. Filed Feb. 14, 1921. Serial No. 444,758. 9 Claims. (Cl. 240—7.)



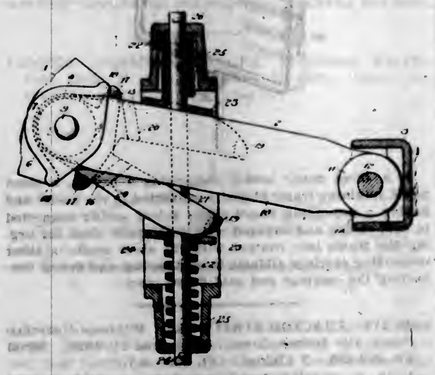
1. An instrument board lamp comprising, in combination, a lamp, a shield for said lamp having a plurality of apertures, a reflector in said shield, and means for adjusting said reflector to vary the direction of the rays emitted from said apertures.

1,400,209. SERVER FOR DINING-TABLES. MARVEL R. BRUMBAUGH, Des Moines, Iowa. Filed Feb. 23, 1921. Serial No. 447,094. 3 Claims. (Cl. 45—26.)



1. A server for dining tables and the like, comprising a pedestal composed of a post and a base, said post being formed with a vertical bore extending entirely therethrough, a tubular bearing mounted in said bore, a table adapted to receive and support articles of food and the like, a spindle fixed to and projecting downwardly from said table and adapted to enter said tubular bearing, bearing balls in said bearing in contact with said spindle, and fastening means on said spindle at the lower end of said bearing, said base being adapted to be placed over and secured to the lower end of said post and being recessed to receive and cover the lower ends of the bearing and spindle.

1,400,210. DRAFT APPLIANCE FOR RAILWAY-CARS. HARRY C. RUHOUP, Chicago, Ill., assignor to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 19, 1920. Serial No. 397,235. 14 Claims. (Cl. 213—42.)



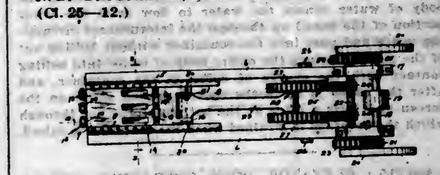
1. In a draft appliance for railway cars, the combination with a coupler head having a rearwardly opening socket, of a coupler stem extending into said socket and pivotally connected to said head, said stem being adapted to be pivotally connected to a railway car and being provided with vertically spaced arms forming a slot open through opposite sides from the forward end of said stem rearwardly, a plurality of oppositely disposed spring means for centralizing said coupler stem with respect to said car and for centralizing said coupler head with respect to said stem, a lever device disposed between said arms and adapted to extend into said socket and between said oppositely disposed spring means and to shift laterally so as to emerge from said slot when the coupler head is rotated with respect to said stem, and means for securing said lever device in said socket, said spring means being adapted noncoincidently to be energized by lateral swinging movements of said stem and being adapted noncoincidently to actuate said lever device to centralize said head with respect to said stem.

1,400,211. APPARATUS FOR OFFENSE OR DEFENSE AGAINST SUBMERGED OR PARTIALLY SUBMERGED OBSTRUCTIONS. CHARLES DENNISTON BURNEY, Alresford, England. Filed Sept. 18, 1917. Serial No. 192,018. 29 Claims. (Cl. 114—235.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A body for submergence in water to which it has relative movement, a retention line attached to said body and means provided on the body whereby the latter is deflected both sidewise and in a vertical sense so as to maintain a desired position relatively to the retention line.

1,400,212. FUEL-PRESS. CHARLES H. DAVIS, Valley City, N. D. Filed June 21, 1920. Serial No. 390,316. 1 Claim. (Cl. 25—12.)



In a fuel press, the combination with a die-block having a die seat, of a bushing in the die seat with its delivery end free and extended outward thereof, said delivery end of the bushing being tapered and longitudinally split, a nut having screw-threaded engagement with the tapered end of the bushing for contracting the same, a plunger working in the bushing, and means for operating the plunger.

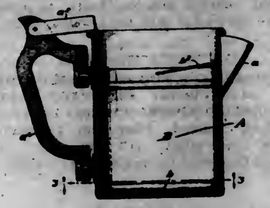
1,400,213. NUT-LOCK. WILLIAM F. FARNSWORTH, Washington, D. C. Original application filed Nov. 27, 1920. Serial No. 426,709. Divided and this application filed Jan. 24, 1921. Serial No. 439,711. 1 Claim. (Cl. 151—84.)



The combination with a nut locking structure adapted to hold a row of the nuts against turning upon their co-

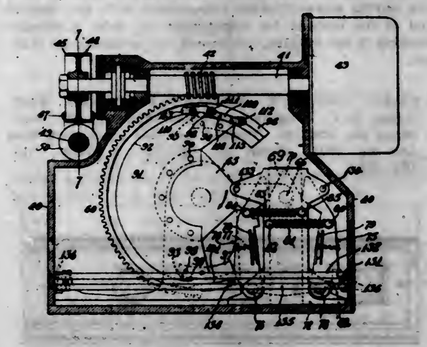
spective bolts comprising a face plate traversed by one of said bolts and held by the nut thereon, a lock bar having an opening formed in a portion thereof, and a projecting element carried by the face plate for engaging in said opening to hold the lock bar in position to engage the sides of a plurality of said nuts.

1,400,214. DEVICE FOR MAKING COFFEE, TEA, OR SIMILAR BEVERAGES. HUBERT GALT, Lake Forest, Ill. Filed Dec. 29, 1919. Serial No. 347,957. 1 Claim. (Cl. 53—3.)



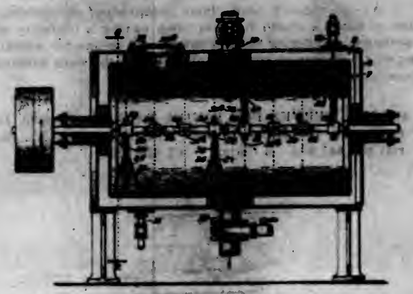
A pot for making coffee comprising an outer vessel, provided with a fluid outlet near its top, an inner removable container having an imperforate open-end shell of slightly less length than the outer vessel and sufficiently smaller in external diameter than the internal diameter of the outer vessel to form an intermediate circulating space through which the boiling water may rise from the lower portion of the outer vessel and pass into the upper part of the container without overflowing the pot, and a screen at the lower end of the container forming the support for the coffee-grounds and spaced slightly above the bottom of the outer vessel when the container is in its lower position in the vessel, the parts being constructed so that when the container is down in said position the boiling action of the body of water causes the water to flow from the lower portion of the vessel up through the intermediate circulating space and pass into the container without boiling out of the pot and brings the entire body of water into boiling contact with the charge of coffee in the container, and after the coffee is made the cooked ground settle on the screen and form a filter at the bottom of the pot through which the beverage is strained when the container is raised.

1,400,215. ELEVATOR-DOOR-OPERATING DEVICE. LUTHER E. GROAT and FREDERICK F. BRUSH, Los Angeles, Calif., assignors to Elevator Safety Appliance Company, a Corporation of California. Filed May 26, 1919. Serial No. 299,979. 11 Claims. (Cl. 187—52.)



1. An elevator door operating mechanism comprising a frame, a motor, a main shaft turning in bearings in said frame, means connecting said motor to said shaft, a crank on said shaft, a cross-head sliding in said frame, a crank pin block carried on said crank and sliding in said cross-head at right angles to the line of motion of said cross-head, and means by which said cross-head opens and closes the elevator door.

1,400,216. APPARATUS FOR MANUFACTURING SHORTENING MATERIAL. VALENTINE HECHLER, Chicago, Ill., assignor to Wilson & Co., Inc., Chicago, Ill., a Corporation of New York. Filed Apr. 23, 1919. Serial No. 292,000. 11 Claims. (Cl. 259—109.)



1. In an apparatus of the character set forth, in combination, a container for the material, a rotatably mounted member in said container, a series of propeller devices arranged at different points on said member, and a series of bow-shaped devices on said member closely adjacent the sides of said propeller devices.

1,400,217. MUSIC-HOLDER FOR BAND USE. THOMAS P. HORGAN, Jr., Orangeburg, S. C. Filed Apr. 23, 1921. Serial No. 463,785. 4 Claims. (Cl. 45—61.)



4. A sheet music holder comprising a casing, a sheet music retaining frame hingedly connected to the holder and having a depending finger piece, a leaf spring connected to said casing and engaged with said finger piece for urging the frame into contact with the sheet music, a sheet supporting carriage slidable in said casing, and means connecting the carriage and said finger piece.

1,400,218. TRACTOR STRUCTURE. WILLIAM GARFIELD HOWE, Des Moines, Iowa. Filed June 21, 1920. Serial No. 390,636. 3 Claims. (Cl. 305—4.)

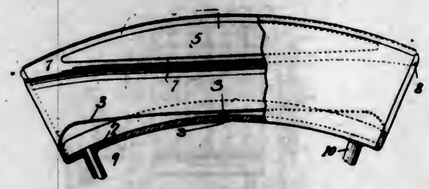
1. In a creeping tread structure, a rigid upright horisontally elongated frame, a circumferential track thereon, slightly deeper at its central portion than at its side edges, inwardly opening channels at the sides of said track, an endless tread device comprising pivoted sections, bearings on the respective sections, spindles

mounted in said bearings having their ends received in the channels at the sides of the track, and rollers on the central portions of the respective spindles, shaped to fit



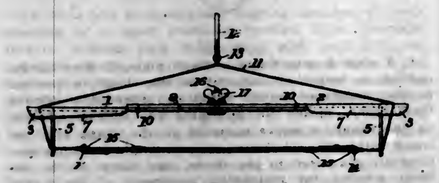
the track whereby the endless tread device may travel in a rigid track, and the weight of the device tends to keep the rollers centered with relation to the track.

1,400,219. EXPANSIBLE CORE. ANDREW HUETTER, Dayton, Ohio. Filed Apr. 26, 1921. Serial No. 464,671. 8 Claims. (Cl. 18—46.)



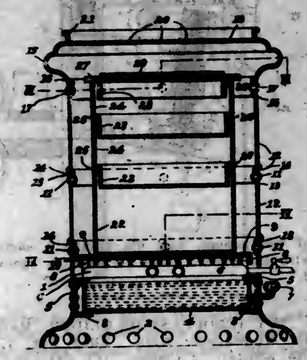
1. An expansible core for tires and the like comprising an arcuate hollow body of flexible but inextensible material having therein a reëntrant fold terminating in a tubular passage extending from end to end of the body in a substantially straight line and means for expanding said body.

1,400,220. GARMENT-HANGER. THEODORE KAUFER, New York, N. Y. Filed May 2, 1921. Serial No. 466,115. 5 Claims. (Cl. 211—13.)



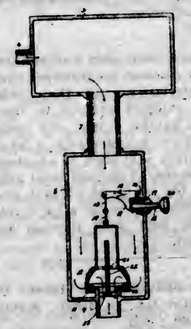
1. In a garment hanger, the combination with a sheet metal shoulder member having depending portions cut and bent therefrom near its ends, of a flexible collar supporting member engaging said depending portions and extending across between them for supporting other garments below the shoulder member, said flexible member also extending above the shoulder member, and means for supporting the hanger from the upwardly extending portion of the flexible member.

1,400,221. COOKING-STOVE. THEODORE KAUFER, New York, N. Y., assignor to Kaufer Manufacturing Company, Inc., New York, N. Y., a Corporation of New York. Reflled for forfeited application Serial No. 269,570, filed Jan. 4, 1919. This application filed July 30, 1921. Serial No. 489,926. 3 Claims. (Cl. 126—39.)



1. In a cooking stove, the combination with an outer shell composed of a ring-shaped base section and a separable ring-shaped section superposed upon said base section, of a water container removably supported in said base section, a burner removably supported in the base section directly over said water container, lugs on said burner projecting above the top surface thereof, a perforated frame removably supported over the burner on said lugs, and a cooking vessel supported on said frame inside the upper section of the shell and over the burner.

1,400,222. FLUSH FOR WATER-CLOSETS. EDWARD LEVINE, New Haven, Conn. Filed Feb. 3, 1921. Serial No. 442,021. 2 Claims. (Cl. 4—5.)

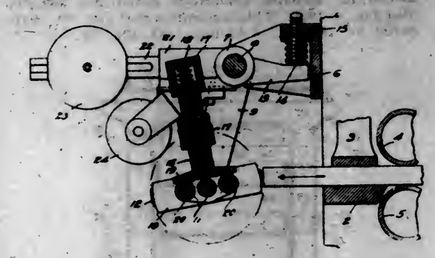


1. A flush for water-closets comprising a valve-chamber provided at its lower end with an outlet, a valve adapted to close said outlet, a vertically-arranged pin mounted in the outlet adapted to guide the said valve to its seat, means including a push-pin for lifting said valve, a header connected with said valve-chamber and adapted to be coupled with a water supply pipe.

1,400,223. LUMBER AND TIMBER TRADE-MARKING DEVICE. JOSEPH G. MCDONOUGH, Eau Claire, Wis. Filed Sept. 15, 1917, Serial No. 191,540. Renewed May 23, 1921. Serial No. 471,544. 34 Claims. (Cl. 101—35.)

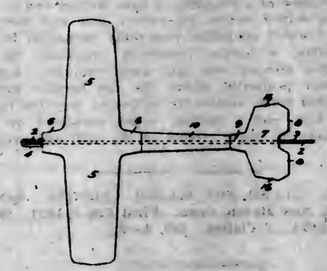
1. The combination, with a means for feeding lumber or timber, of a die mounted to revolve on a horizontal

axis and arranged transversely of the lumber and in the path thereof for applying an identifying mark to an end



surface of the lumber, said die having a surface for contact with the lumber after the marking operation is completed.

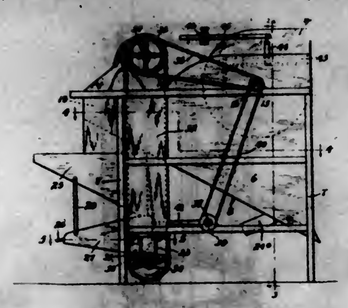
1,400,224. TOY AEROPLANE OR GLIDER. MATHEW R. MCINNIS, Minneapolis, Minn. Filed Nov. 7, 1919. Serial No. 336,241. 3 Claims. (Cl. 244—12.)



1. A toy aeroplane comprising a stick having a weighted forward end and a gummed longitudinal surface, wings of light flexible material having their middle portions mounted on said gummed surface in the rear of said weight, said stick having a rear end projecting beyond the rear wing to form a finger grip, a hand grip having a slot therein wherein said stick is adapted to slide, and a propelling band mounted on said hand grip and forming a loop to receive the rear end of said stick, said band being put under tension when the stick is retracted in said slot and projecting said stick through said slot when the band is released.

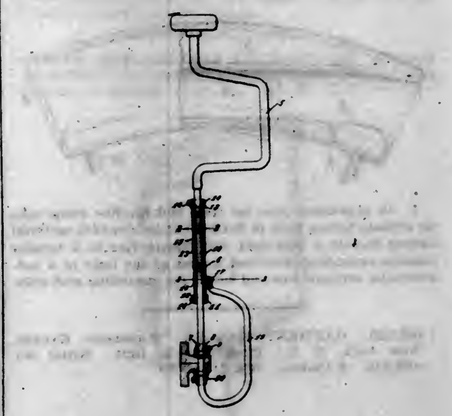
1,400,225. GRAIN-SEPARATOR. HENRY H. MEYER, Red Wing, Minn. Filed Jan. 16, 1920. Serial No. 351,891. 1 Claim. (Cl. 130—17.)

A grain cleaner having in combination, a casing having an inclined bottom and having an upwardly inclined trough extending therethrough and provided with a discharge chute at its lower end projecting out of said casing, discharge chutes at each side of said trough at its lower end oppositely directed to the said chute and adapted to discharge beneath the casing, a fan for drawing air upwardly through said trough and discharging the same at the top of the casing, a hopper at the upper end of said trough provided with feeding means leading into the trough, a primary material hopper disposed beneath the upper end of said casing and said first mentioned hopper for receiving the grain and material mixed therewith, a shoe provided with an inclined scalping means beneath the primary hopper and receiving therefrom and discharging the scalped material at its lower side, a chute beneath said shoe discharging laterally of the casing, and



an elevating means at one side of the casing receiving from said last mentioned chute and discharging into the hopper at the upper end of said trough.

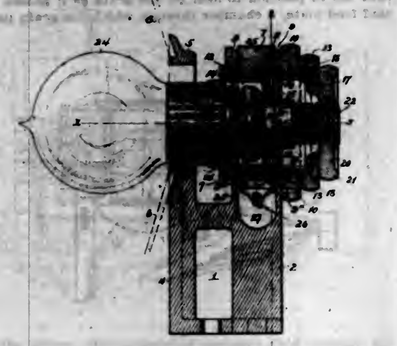
1,400,226. WRENCH. HORACE R. MILAN, Columbia, Tenn. Filed Mar. 1, 1921. Serial No. 448,787. 5 Claims. (Cl. 81—55.)



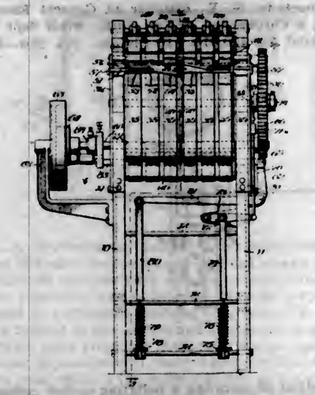
1. A wrench comprising a shank and an offset handle portion, a socket at one end of the shank, a tubular member supported on the shank and adapted to revolve thereabout, means for adjusting the tubular member on the shank, a sleeve mounted on the shank and disposed within the tubular member, a socket carrying arm pivotally connected to the sleeve, and means in the tubular member for restricting movement of the sleeve and socket carrying arm.

1,400,227. LAMP-FOCUSING DEVICE. JUDD L. MINICK, Altoona, Pa. Filed Feb. 19, 1920. Serial No. 359,950. 7 Claims. (Cl. 240—44.)

2. In focusing means, the combination with a support, of a sleeve having an eccentric bore and having relatively movable parts, revolubly mounted on said support, a cylinder revolubly mounted in the eccentric bore of said sleeve and having relatively-movable portions, means for holding a lamp support in said cylinder, and a friction clamp embracing said sleeve for clamping the parts in adjusted position.



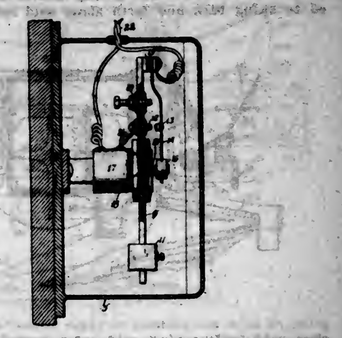
1,400,228. LEAF STEMMING AND BOOKING MACHINE. JOSEPH F. MOELLER, Chicago, Ill. Filed Oct. 4, 1918. Serial No. 256,872. 15 Claims. (Cl. 131—57.)



12. In a leaf stemming and booking machine, the combination of a main frame, a booking drum journaled therein, booking belts coöperating with said drum, an apron frame hinged at its lower end to said main frame and supporting a portion of said belts, and means for securing said apron frame in upright position against said main frame comprising a pair of spring-pressed locking bolts slidably mounted on said apron frame, a turn-button pivoted on said apron frame between the inner ends of said bolts, links connecting the inner ends of said bolts to said turn-button, and keepers adjustably secured to said main frame and formed with holes to receive the outer ends of said locking bolts.

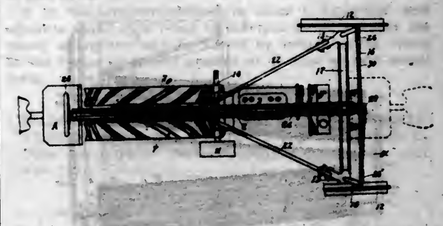
1,400,229. ELECTRIC-CIRCUIT CONTROL. HOWARD J. MURRAY, Brooklyn, N. Y. Filed July 15, 1919. Serial No. 311,067. 10 Claims. (Cl. 175—355.)

1. In a device of the class described, a support which may be subject to movement in space, a rocking member pivotally mounted on said support for oscillatory movement about an axis fixed relative to the support, a relatively fixed contact carried by said rocking member and bodily movable therewith, a second contact supported by



said member to move bodily therewith and additionally movable under the force of its inertia into position to affect its circuit closing relation with said fixed contact and means acting on the movable contact for affecting its circuit closing relation with the fixed contact.

1,400,230. TRACTOR. HAROLD NILSON and LEONARD NILSON, Wayzata, Minn. Filed Oct. 20, 1918. Serial No. 260,202. 15 Claims. (Cl. 180—54.)



1. A traction machine comprising a frame, a forward axle and guiding wheels, a rear axle and traction wheel, said frame having a horizontal pivotal bearing on said forward axle for lateral oscillation and a non-oscillating bearing on said rear axle, a source of motive power carried by the lower portion of said frame below said horizontal pivotal bearing and having driving connections with said traction wheel, the lower portion of said frame swinging toward the higher side of the machine to counteract the tendency to tip toward the lower side when traveling on a side hill.

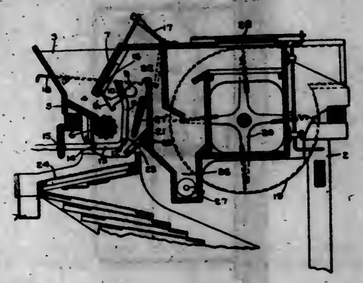
1,400,231. ART OF COMPOUNDING RUBBER. WILLIAM G. O'BRIEN, Akron, Ohio. Filed May 22, 1919. Serial No. 299,011. 7 Claims. (Cl. 106—23.)

1. In the process of incorporating glue into a rubber compound, the improvement which consists in working the rubber to plasticize the same in the presence of glue containing water insufficient in amount to plasticize it at ordinary temperatures but sufficient to plasticize it in the working operation.

1,400,232. FEED-HOPPER FOR GRAIN-CLEANING MACHINERY. RICHARD L. OWENS, Minneapolis, Minn. Filed Dec. 24, 1917. Serial No. 208,577. 3 Claims. (Cl. 83—44.)

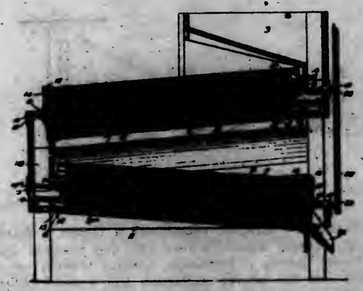
1. The combination, with a feed hopper having a discharge throat and an inclined feed plate in the bottom

thereof, of a feed roll mounted to form a continuation of the surface of said feed plate and extending slightly above the same, a plurality of gates hinged to the wall of said hopper above said roll and having their lower ends adapted to swing back and forth above said roll to open or



close said feed opening, said gates normally falling by gravity into said feed opening and mechanism engaging said gates for supporting them in an open or partially open position and comprising means for allowing said gates to move away from said feed opening under pressure of the grain flowing through said opening.

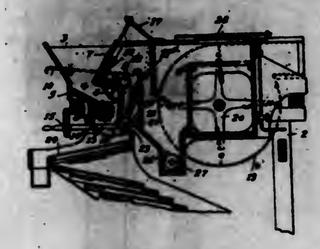
1,400,233. WILD-OATS SEPARATOR. RICHARD L. OWENS, Minneapolis, Minn. Filed Mar. 14, 1918. Serial No. 222,889. 5 Claims. (Cl. 130—16.)



2. An apparatus for separating oats from other grain comprising a frame, a revolving cylindrical sieve therein composed of wire mesh having a series of flat separating surfaces and a series of inwardly projecting ledges between said surfaces extending from end to end of said sieve, said wire mesh being folded or crimped longitudinally at regular intervals between said flattened surfaces to form said inwardly projecting ledges, the walls of each ledge being pressed into parallel relation, the mixture being delivered to one end of the sieve and said ledges elevating it as the sieve revolves and the mixture flowing over said ledges on the upside of the sieve and dropping vertically upon said flattened surfaces, the slender oats passing through the meshes while the plumper grains rebound or lodge therein.

1,400,234. FEED-HOPPER FOR GRAIN-CLEANING MACHINES. RICHARD L. OWENS, Minneapolis, Minn. Original application filed Feb. 24, 1917, Serial No. 208,577. Divided and this application filed Feb. 21, 1919. Serial No. 278,446. 5 Claims. (Cl. 83—44.)

1. The combination, with a feed hopper having an inclined feed plate arranged below the bottom of the hopper and forming with the hopper wall a side opening discharge throat, of a force-feed roll located below the edge of said feed plate, an adjustable gate arranged above said roll in position to bear on the grain as it passes over said feed plate, a chamber through which the grain passes



as it falls from said feed roll, an air regulating valve arranged in said chamber, and a fan and fan-trunk connected to said chamber above said feed roll and regulating valve, for drawing a current of air through said chamber and through the grain as it falls from said feed roll.

1,400,235. METHOD OF AND MEANS FOR PRODUCING ALTERNATING CURRENTS. JOHN H. PAYNE, Jr., Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 14, 1916. Serial No. 120,070. 10 Claims. (Cl. 250—36.)

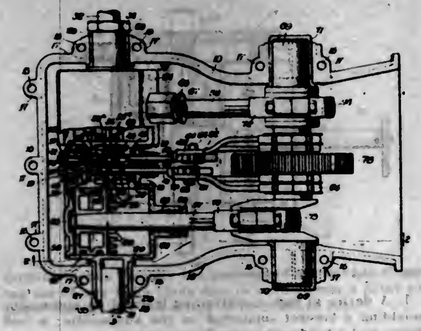


1. The method of operating a radiating system comprising a self-excited electron discharge device which consists in causing said device to produce two separate currents, one of radio frequency and one of audio frequency, causing the two currents to interact to produce radio frequency currents having an audible group frequency equal to that of the audio frequency currents produced and utilizing the currents thus produced for effecting a useful radiation of energy.

1,400,236. PRESSURE-FLUID MOTOR. JOHN EDWARD PFEIFFER, Chicago, Ill. Filed May 29, 1918. Serial No. 237,209. 5 Claims. (Cl. 121—63.)

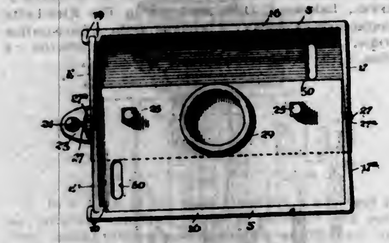
1. A motor comprising a crank shaft, an oscillating cylinder having a piston and a direct connection between the piston and a crank of the crank shaft, a stationary pressure fluid chest supported independently of the cylinder and provided with a circular socket opening into the chest, the cylinder having an external cylindrical boss mounted to oscillate in the socket and provided with an inlet port, a slide valve mounted in the chest in coöperative relation

with the inlet port and working in the general direction of the reciprocating movement of the piston, and valve ac-



tuating means, the passage of pressure fluid through the inlet port being controlled by the joint movements of the cylinder and the valve.

1,400,237. LOCOMOTIVE-JOURNAL LUBRICATOR. JAMES G. B. PROUDFOOT, Grafton, W. Va. Filed Jan. 26, 1921. Serial No. 440,069. 8 Claims. (Cl. 64—35.)



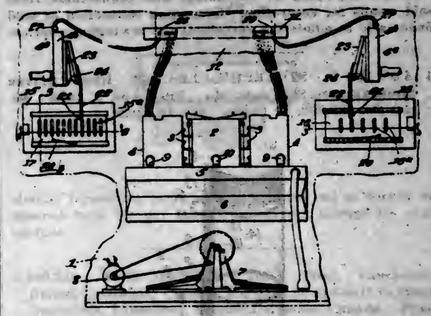
8. A lubricator for journal boxes comprising side sections including bottom panels and end panels arranged in overlapped relation with respect to each other, end sections removably associated with the side sections and arranged in overlapped relation with respect to each other, slots formed in the bottom and side panels and in the end sections, bolts extending through said slots, means for preventing displacement of the end sections from the side sections comprising, a lug secured to one of the side sections, a locking finger pivoted to one of the side panels, and a bolt extending through said lug and finger, and a follower within the frame.

1,400,238. THERMOSTATIC DEVICE. HENRY E. REEVE, Brooklyn, N. Y. Filed July 8, 1921. Serial No. 483,160. 21 Claims. (Cl. 297—15.)



19. In a thermostatic device, two relatively fixed supports, a laterally warping thermostatic element supported by said supports, and a spring bearing laterally against said thermostatic element near one end of said element.

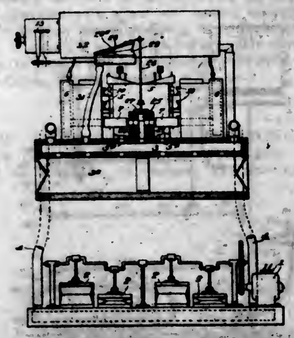
1,400,239. SWELL FOR AUTOMATIC ORGANS. CHARLES C. RUSSELL, Chicago, Ill. Filed Apr. 5, 1920. Serial No. 371,282. 2 Claims. (Cl. 84—84.)



1. In an automatic organ in combination with an outer casing, tone-producing devices inclosed within the casing; pneumatically-operated playing devices within the casing for operating said tone-producing means; a note sheet for selectively controlling the playing devices; the casing having a plurality of sound exits and separate shutter means for variably closing said exits respectively; motor pneumatics in the casing and connections therefrom respectively for operating said separate shutters, and separate note-sheet-controlled ducts in the tracker for controlling said motor pneumatics respectively; whereby the sound emergence may be varied by being limited to either or both of said exits.

2. In the structure defined in claim 1, foregoing, said separate sound exits being of different areas, whereby the sound emergence may be varied by being limited either to the lesser or to the greater or to sum of said sound exits.

1,400,240. AUTOMATIC CUT-OUT VALVE FOR SELF-PLAYING ORGANS. CHARLES C. RUSSELL, Chicago, Ill. Filed Apr. 5, 1920. Serial No. 371,283. 3 Claims. (Cl. 84—122.)



1. In a self-playing organ, in combination with the pumping means for producing partial vacuum, a receiving bellows in which a condition of partial vacuum is produced by the pumper, a pneumatic action chamber for controlling the playing; a conduit from the receiver to the pneumatic action chamber; a valve which controls the air connection with the pneumatic action chamber conduit mounted for movement to closed position in the direction of suction from the receiver; a suction-operated pneumatic operatively connected with the valve for positively closing it by the collapse of the pneumatic, and positively opening it by the expansion of the pneumatic; a spring which tends

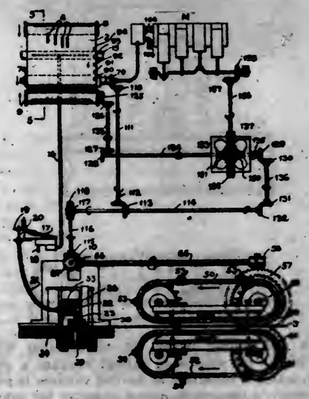
to expand the pneumatic and open the valve against the suction; note-sheet-operating mechanism for winding and re-winding the note-sheet; means for reversing said mechanism from playing to rewinding, and connections from said means for controlling the suction connection of said pneumatic to admit the suction at the rewinding position.

1,400,241. STOVEPIPE-CLEANER. HENRY OLIVER SHOLDERBRAND, St. Louis, Mo. Filed Apr. 9, 1919. Serial No. 288,892. 1 Claim. (Cl. 15—242.)



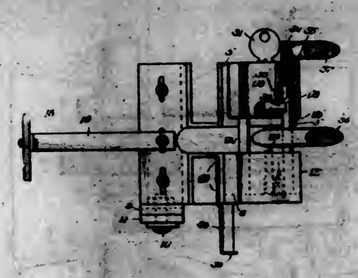
In combination with a stove pipe having an aperture leading to the interior thereof, and a longitudinal guideway extending along the pipe wall formed by creasing the pipe wall at one side of the aperture concavely outwardly and the pipe wall at the other side of the aperture concavely inwardly; a cleaning element formed by extending a shaft of heavy wire through the aperture and then coiling the interior end portion thereof inside the pipe in the form of two spaced soot scraping rings connected by a link of the same wire, and disposing the outer end portion of the wire shaft along said guide-way to form a handle for manipulating the inner soot scraping rings.

1,400,242. NOTE-SHEET-PERFORATING MACHINE. CHARLES F. STODDARD, New York, N. Y. Filed Apr. 26, 1917. Serial No. 164,625. 37 Claims. (Cl. 164—114.)



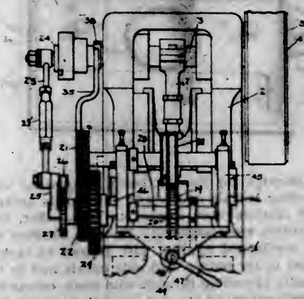
1. A note sheet perforating machine comprising, in combination, perforating mechanism; selecting mechanism including a pattern; feeding means for the pattern having operative connection with the perforating mechanism; speed controlling means for said feeding means independent of the entire selecting mechanism other than the pattern governed conjointly by said pattern and perforating mechanism.

1,400,243. LOCKING DEVICE FOR AUTOMOBILES. FELIX G. SIWUCKI, Chicago, Ill. Filed Feb. 18, 1921. Serial No. 446,009. 2 Claims. (Cl. 70—126.)



1. A device to lock a controlling lever of an automobile providing a bracket supported on the automobile; a lock casing and a bolt guide spaced apart on the bracket to admit a lever therebetween; two spaced-apart lock bolts arranged to enter the lock casing, carried by said guide; a cross member connecting the outer ends of said bolts; a spring pressed latch within the lock casing engaging one of said bolts and arranged to be withdrawn by a key and a spring to return said lock bolts to unlocked position when released by the key.

1,400,244. MACHINE FOR MAKING NUTS. WILLIAM J. SLEFFEL, Lakewood, Ohio, assignor to The Kirk-Latty Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 26, 1919. Serial No. 299,753. 4 Claims. (Cl. 10—76.)

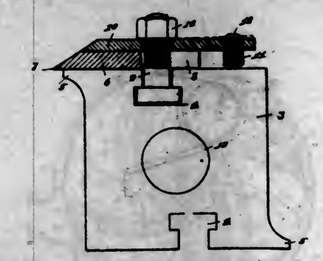


1. In a machine of the character described, the combination of punching means, means for feeding a prepared bar of stock through said punching means in synchronism therewith, and other means adapted to engage and lock said feeding means against movement during the operation of said punching means.

1,400,245. CUTTER-HEAD. CHRISTIAN P. SMITH, South Bend, Ind.; Arthur L. Jones administrator of said Christian P. Smith, deceased. Filed Nov. 5, 1919. Serial No. 335,909. 3 Claims. (Cl. 144—225.)

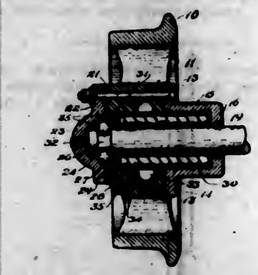
1. The combination with a cutter head having a flat knife blade receiving surface for the reception of a knife blade, of a flexible clamping bar having its under face flat and its rear edge extending beyond the rear edge of the knife blade and disposed on said knife blade, a holding down bolt carried by the cutter head and spaced from its edges and passing through a notch in the knife blade and through an aperture in the flexible bar at a point spaced from its edges and an adjusting screw threaded through

the flexible clamping bar adjacent its rear edge and rearwardly disposed in relation to the holding down bolt and



forming means whereby the pressure of the flexible clamping bar on the knife blade may be varied from a point adjacent the holding down bolt to its forward edge.

1,400,246. CAR-WHEEL. LEONARD P. SOUTH, Louisville, Ky. Filed Oct. 12, 1921. Serial No. 507,209. 3 Claims. (Cl. 295—47.)



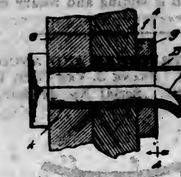
1. In a wheel of the class described, a hub body having an inwardly extending flange at its outer end, said hub body being further provided with an internal annular groove intermediate its ends and having port communications with the exterior of the hub body, an inner hub end secured to said hub body and having an inwardly extending flange at its inner end, a shaft passing through said hub body and inner hub end, and a roller bearing surrounding said shaft between the annular flanges of the hub body and hub end.

1,400,247. PROCESS OF PRODUCING CATALYZERS. JOHN A. STEFFENS, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Dec. 24, 1918. Serial No. 268,185. 2 Claims. (Cl. 23—28.)

2. The process of making a catalyst comprising precipitating the salt of a catalytically active metal with ammonia, allowing the ammonium salt formed to remain in the precipitate, drying and igniting to form an oxid, and reducing the latter at a temperature within the range of about 250 to 350° C.

1,400,248. BOLT. THOMAS D. THOMAS, Youngstown, Ohio, assignor of one-third to Walter D. McKay and one-third to Thomas L. Thomas. Filed Feb. 19, 1921. Serial No. 446,411. 4 Claims. (Cl. 85—5.)

1. A bolt or pin formed in two parts, the shank or stem of one part being substantially semi-circular in cross-section, except that its inner end is enlarged into substantially circular formation, the enlarged portion curving inwardly and merging into the flat face of the semi-circular portion of the shank; the other part being of



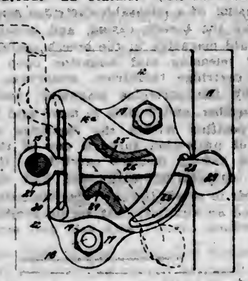
similar formation, except that its inner end is curved or tapered from its flat surface outwardly toward its oval surface.

1,400,249. SAW-HANDLE. JOHN TOSS, Vancouver, British Columbia, Canada, assignor of one-half to Isaac Gustafson, Vancouver, British Columbia, Canada. Filed Feb. 14, 1921. Serial No. 444,792. 2 Claims. (Cl. 145—111.)



2. A saw handle comprising, a bar eyed at one end formed block shaped at its opposite end, said block being longitudinally grooved on its upper and lower edges and having a square aperture extending vertically through it, a bar slidably mounted in said aperture threaded on one end and provided with a nut and having its opposite end curved to form a guard disposed in front of the end of the saw, a rigid pin extending transversely through said bar so as to form a saw-connecting pin on each side of it, and a gripping handle fitted in said eye.

1,400,250. SILO-DOOR-FASTENING DEVICE. FRANK J. VAN COTT, Unadilla, N. Y. Filed July 31, 1916. Serial No. 112,432. 21 Claims. (Cl. 20—1.4.)



5. In a device of the character described adapted to be used in combination with a closure member for silos or the like, comprising a retainer member fixed to the closure member having portions forming spaced guides

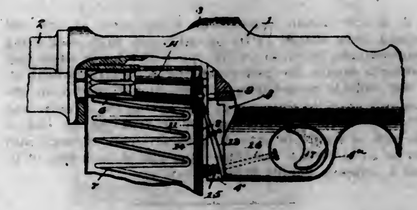
and portions forming fulcrums, a locking belt arranged in position to coact with said guides and fulcrums, said means pivotally and slidably connected with said locking belt for imparting to it sliding and rotary movement.

1,400,251. SILO STRUCTURE AND ANCHORING SYSTEM THEREFOR. FRANK J. VAN COTT, Unadilla, N. Y. Filed Mar. 5, 1921. Serial No. 449,907. 12 Claims. (Cl. 20—1.4.)



1. The combination of a silo, a door frame, a plurality of vertical staves having co-acting tongues and grooves on their adjacent edges, an anchoring system for preventing the twisting of the silo comprising a member extended from the outer to the inner surface of the silo wall and diagonally through the tongue and groove of the adjacent staves.

1,400,252. AUTOMATICALLY-RELEASABLE MAGAZINE FOR MACHINE-RIFLES. LOWREY A. WEED, Brooklyn, N. Y., assignor to The Secretary of War, trustee. Filed Nov. 3, 1919. Serial No. 335,515. 2 Claims. (Cl. 42—18.) (Filed under the act of Mar. 3, 1883. 22 Stat. L., 625.)



1. In an automatic firearm, the combination, with the breech casing, of a releasable cartridge magazine normally carried by the breech casing, and means for normally locking said magazine in the breech casing and for automatically releasing said magazine upon withdrawal of the last cartridge therefrom, comprising a leaf spring carried by the cartridge magazine, and supporting a locking member, and flexible to move said locking member from a position within the cartridge magazine to a position of projection through one of the walls thereof, and a locking member carried by the firearm and normally coöperating with said first mentioned locking member to retain the cartridge magazine in the breech casing, and an auxiliary leaf spring flexible into and out of longitudinal contact with said first mentioned spring.

1,400,253. SPRING. ALBERT G. WICKER, Cincinnati, Ohio. Filed June 15, 1921. Serial No. 477,808. 7 Claims. (Cl. 267—58.)

2. In a spring, the combination of a resilient core member adapted to expand and contract, and a resilient coil member wrapped around the core with the ends of the coil member extended for connection to the objects to



be spring-faced, and means on the core to prevent relative lengthwise movement of the coil and core.

1,400,254. ELEVATOR-OILING MECHANISM. GEORGE P. YOUNG, Cincinnati, Ohio, assignor to The Warner Elevator Manufacturing Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 29, 1920. Serial No. 369,471. 3 Claims. (Cl. 74—86.)

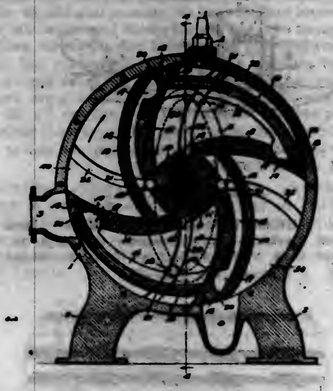


1. In an apparatus for elevator lubrication, the combination of an elevator car guide rail having an oil duct therethrough and tributary channels from the oil duct for distributing oil to the bearing surfaces of the rail, a stationary oil feed reservoir located at an accessible elevation from said duct, a conduit connecting said reservoir and duct, an elevator car having a shoe engaged with said rail and wiper carried by said car engaging said rail bearing surfaces.

1,400,255. ROTARY INTERNAL-COMBUSTION MOTOR. HENRY D. ANDERSON, Filer, Idaho. Filed July 16, 1920. Serial No. 396,678. 3 Claims. (Cl. 123—17.)

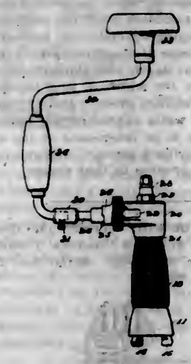
1. In a rotary engine, a casing, a rotor mounted in a chamber in such casing, said rotor having an expansion chamber and the casing having inlet and exhaust ports with which such chamber may communicate, a piston having a pressure-receiving surface that lies toward the casing wall and in the form of a lever pivotally connected at one point of its length with the rotor, said piston swinging inward under pressure, and means forming a thrust support for the piston at another point in its length, and causing the piston at such point to travel in a path between the rotor axis and the chamber wall, and

at a changing distance therefrom, the point of pivotal connection of the piston and the rotor being in advance, in



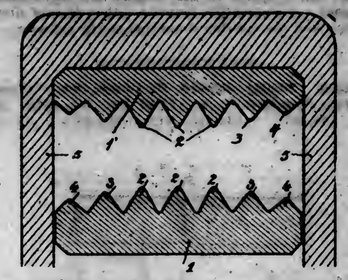
the direction of rotor rotation of the point where the piston is acted on by said thrust support.

1,400,256. RATCHET-WRENCH. WILBUR L. BEATY, South Butte, Mont. Filed Oct. 16, 1919. Serial No. 331,013. 1 Claim. (Cl. 81—60.)



A wrench comprising a smooth bored stock having longitudinal slots in its walls and provided at one end with an enlarged open-ended head and a reduced shank at its opposite end, a boss projecting from the extremity of said reduced shank, a star shaped head slidably mounted in the stock and having extended threaded portions projecting through the slots in the stock, three resilient jaws integral with and extending from said head through the open-ended enlarged head of the stock with flat inner surfaces and having their outer surfaces bearing against said stock head, an interiorly threaded sleeve rotatably mounted on the stock and engaging the threaded projections of the slidably mounted head, said sleeve bearing at one end against the said enlarged head of the stock, a working head fitted rotatably on the reduced shank of the stock and arranged to hold the sleeve against the enlarged head of the stock and prevent endwise movement of the sleeve, means for operating said working head, and means engaging said boss to retain the working head on the reduced end of the stock.

1,400,257. STONE-CRUSHER. POUL BRUNGAARD, Dalby, Sweden. Filed Dec. 11, 1920. Serial No. 429,004. 4 Claims. (Cl. 83—53.)



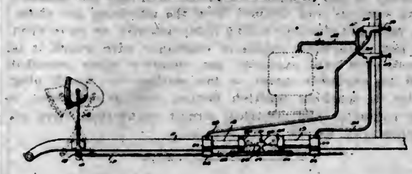
1. Improvement in stone crushers having two crushing jaws movable in relation to each other and side members which together with the jaws form a crushing chamber, said jaws being at the working surfaces provided with ridges of such a height that the free space between the tops of the ridges on the opposite working surfaces of the coacting crushing jaws is less at the middle of the same and that said space is gradually increasing toward the outer parts adjacent to the side members.

1,400,258. CORE FOR TIRE-CASINGS. JOHN B. BINNS, Akron, Ohio, assignor of one-fifth to Stephen J. Taylor, one-fifth to Earl Wissinger, Cuyahoga Falls, Ohio, one-fifth to Frank Nolte, Akron, Ohio, and one-fifth to Superior Rubber Mold & Equipment Company, Cuyahoga Falls, Ohio, a Corporation of Ohio. Filed Mar. 18, 1921. Serial No. 453,215. 6 Claims. (Cl. 18—45.)



1. A core for tire casings, formed with a series of circumferential grooves in its casing receiving surface, and means for admitting a fluid to said grooves.

1,400,259. AUTOMOBILE-HEADLIGHT. FRANK B. BLACK, Liscomb, Iowa. Filed Oct. 11, 1920. Serial No. 416,174. 2 Claims. (Cl. 240—61.)



1. Vehicle head lamp tilting mechanism comprising a pair of cylinders, reciprocating pistons arranged in said cylinders, means for connecting said pistons to the lamps of the vehicle, and control means comprising a pair of valve chambers, each of said valve chambers being provided with an inlet opening connected to a source of compressed gas and an exhaust opening, and being further

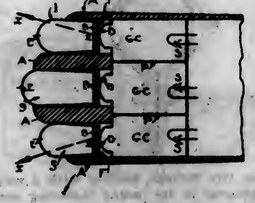
provided with an opening communicating with one of said cylinders arranged intermediate said first mentioned openings, a valve arranged in each of said valve chambers adapted to be moved to the ends of the valve chambers to permit communication between either of said first two openings and the opening connected to the cylinder.

1,400,260. SASH. ROBERT H. BLISS and GRAYDON C. BLISS, Syracuse, N. Y. Filed Dec. 30, 1919. Serial No. 348,367. 7 Claims. (Cl. 189—36.)



1. A sash comprising intersecting mullions, a first mullion having a notch in one edge, and a second mullion having a portion adapted to fit in said notch, the first mullion having a bendable tongue adjacent the notch, the free end of the tongue forming one side of the notch, said tongue being adapted to be bent laterally to provide space additional to the notch to permit the insertion of the second mullion into the notch, and to be moved into its original position after said second mullion has been placed in said notch, with its free end engaging said second mullion, and said tongue and first mullion having portions interlocking when the tongue is in its original position, for the purpose set forth.

1,400,261. AERONAUTICAL APPLIANCE FOR TRANSPORTING AND FIRING EXPLOSIVES. WILLIAM RUSHTON BOWKER, Coronado, Calif. Filed Jan. 6, 1921. Serial No. 435,446. 9 Claims. (Cl. 244—1.)



1. The combination in an aeronautical appliance of a transporting air-craft to which is affixed a multiple torpedo device consisting of an efficient shaped receptacle containing a plurality of recesses, the said recesses being adapted to receive a detachable explosive container; a plurality of gas explosive chambers each said gas chamber being separate and distinct from the adjoining gas chamber, each gas chamber acting independently, so as to eject the said detachable explosive container with which it is alined, each said explosive gas chamber being provided with an explosive agent, a gas sealing cap, spark plug device, a sparking ignition device, conducting wires, a time contactor and electrical circuit connecting wires all substantially as set forth.

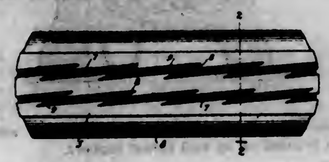
1,400,262. FLYING-MACHINE. GIANNI CAPRONI, Milan, Italy. Filed Sept. 4, 1919. Serial No. 321,670. 1 Claim. (Cl. 244—2.)

In an aeroplane of the biplane type, a front cell having prolonged uprights, three floats mounted underneath the lower plane, the middle float extending longitudinally beneath the aeroplane, the side floats being smaller in size and arranged at a level above that of the middle float, inclined wings arranged between the middle float and the side floats, and inclined wings arranged between



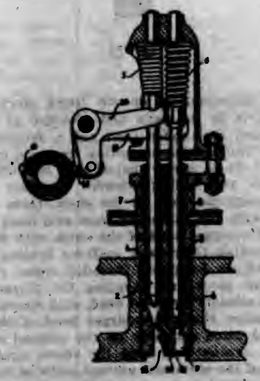
the outer side of the said side floats and one end of the prolonged uprights of the cell.

1,400,263. TREAD FOR VEHICLE-TIRES. FRED B. CARLISLE, Davisville, R. I., assignor to Joseph M. Gilbert, New York, N. Y. Filed June 16, 1917. Serial No. 175,083. 4 Claims. (Cl. 152—14.)



1. A tire having a tread provided with circumferentially extending grooved portions which taken as a whole form a zigzag depression parallel with the circumferential center line of the tire, said grooves being constituted of a series of relatively narrow inclined grooves, substantially straight throughout their entire length, each of which approaches parallelism with the peripheral center line of the tire, diverging nevertheless, but only slightly, therefrom and of a series of short transverse indentations of approximately equal depth and approximately equal in major length to twice the width of said inclined grooves and connecting said inclined grooves end to end and causing the formation of walls approximately equal in width to that of the grooves to be interposed at the overlapping end of each of the inclined grooves without interrupting the continuity of the grooves in that region.

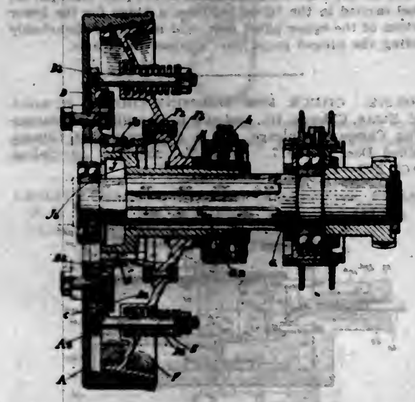
1,400,264. INJECTOR FOR INTERNAL-COMBUSTION ENGINES. LOUIS AUGUSTE CHARLES, Levallois-Perret, France. Filed Apr. 26, 1919. Serial No. 293,040. 1 Claim. (Cl. 123—33.)



Injecting apparatus for internal combustion engines comprising a passage for the compressed air, a needle forming a valve in this passage, a convergent divergent

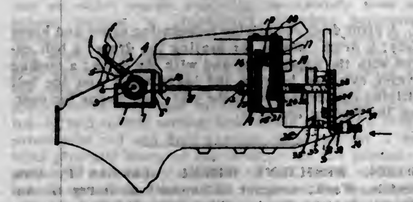
air passage of continuously varying cross section arranged below the needle and emptying directly into the motor, a passage for the non-compressed fuel, a needle forming a valve in said fuel passage, an intermediate reservoir below the last mentioned needle for the fuel, two passages establishing communication between the intermediate reservoir and the convergent divergent air passage respectively above and below the narrowest cross section, the two passages being parallel and inclined in a direction reverse to the air current, and two cams of variable profile controlling the two needles distributing the air and fuel.

1,400,265. CLUTCH FOR POWER TRANSMISSION. LOUIS COATALEN and HERBERT CHARLES MACLEOD STEVENS, Wolverhampton, England, assignors of one-half to Sunbeam Motor Car Company, Limited, Wolverhampton, England. Filed June 21, 1920. Serial No. 390,601. 3 Claims. (Cl. 192—53.)



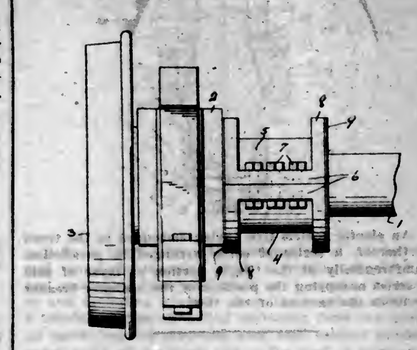
3. In combination, a shaft, a non-sliding member encircling the axis of the shaft, a sliding sleeve splined to the shaft and having a detachable splined connection with the non-sliding member, a friction clutch member slidably mounted on the sleeve and having splines to be engaged by the splines of the said sleeve when in either retracted or advanced position, springs for pressing the friction clutch member in contact with the non-sliding member, a ball race mounted on the non-sliding member, and a ring with anti-friction balls between it and the ball race, and bolts connected with the ring and the springs, substantially as described.

1,400,266. STARTER FOR AUTOMOBILE-ENGINES. JOHN F. COLLINS, Philadelphia, Pa. Filed July 30, 1920. Serial No. 400,062. 5 Claims. (Cl. 74—55.)



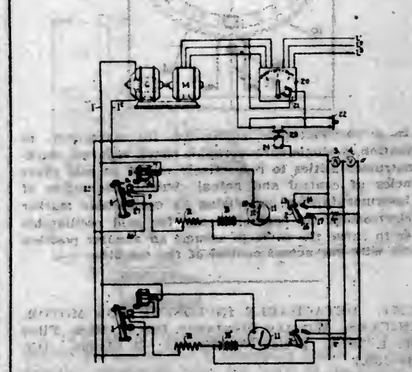
1. In an automobile engine starter, a sprocket wheel, a friction clutch mechanism carried by said sprocket wheel, a shaft upon which said clutch mechanism is mounted, means moving said shaft lengthwise in one direction by the initial rotation of the sprocket wheel, a spring for moving said shaft in the reverse direction when released, means carried by said shaft for engagement with the engine shaft, a train of gearing in which said sprocket wheel is included, and means for manually actuating said gearing in one direction.

1,400,267. LOCOMOTIVE ATTACHMENT. ROBERT G. COX, Savannah, Ga. Filed Aug. 10, 1921. Serial No. 491,216. 4 Claims. (Cl. 105—79.)



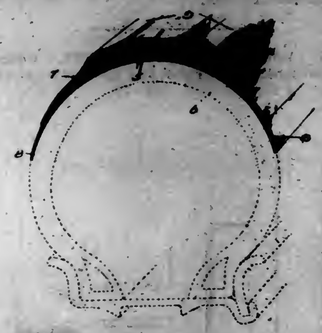
1. In a lateral take up device of the character described, the combination with a locomotive axle, of a take up device reversibly secured to the axle and wear plates on opposite ends of the device.

1,400,268. BATTERY-CHARGING SYSTEM. WILLIAM L. CULLY, New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 9, 1920. Serial No. 350,287. 9 Claims. (Cl. 171—314.)



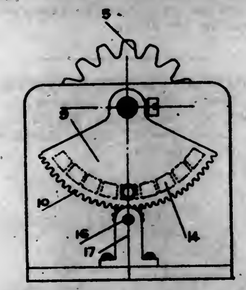
1. In a battery charging system, the combination with a motor generator set and control means therefor, of separately operable means to connect a battery to said motor generator set for charging, the former means being directly controlled by the latter means to arrest operation of said motor generator set upon operation of said latter means to disconnect the battery.

1,400,269. BREAKER-STRIP FOR TIRES. ROMANUS DARROW, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 26, 1917. Serial No. 208,888. 10 Claims. (Cl. 152—18.)



1. An elastic vehicle tire having embedded in the tread area thereof, a series of cords arranged in parallelism circumferentially of the tire, a portion or layer of said cord series occupying the position of the ordinary breaker strip upon the carcass of the tire.

1,400,270. RECORDING DEVICE FOR SIGNAL SYSTEMS. PETER PAYNE DRAN, New York, N. Y. Filed June 30, 1916. Serial No. 106,779. 8 Claims. (Cl. 234—26.5.)

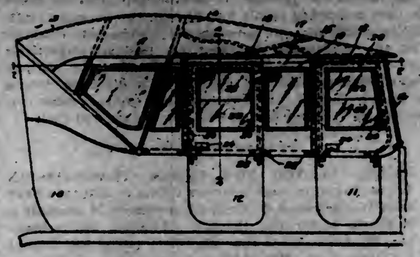


1. In a chronographic mechanism for machinery, in combination, a single chronographic chart, separate marking instrumentalities to respectively record on said chart exigencies of control and actual control, the latter of said instrumentalities comprising an oscillatable marker and electromagnetic control means for said oscillatable marker to cause the same to assume an angular position variable with the actual control of the machine.

1,400,271. DETACHABLE INCLOSURE FOR MOTOR-VEHICLES. WILLIAM DICKINSON, Detroit, Mich. Filed Mar. 1, 1919. Serial No. 280,081. 3 Claims. (Cl. 296—139.)

1. A filler member for an automobile top having side curtains, comprising a body plate of substantially triangular form rolled over at its shorter sides to fit the front bow of the top for rigidly supporting the body plate beneath the forward corner of the top, said body plate having a depending flange along its longer side following the general direction of the side of the automobile and against which the forward side curtains are adapted to seat for sealing the curtains against the top.

2. A side curtain for vehicles comprising a curtain section having an opening therein, inner and outer frame sections clamped against opposite sides of the curtain



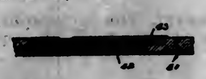
section at the edge of the opening, a two-part transparent panel carried in the frame sections, a hinge for the lower portion of the upper panel part, and means for detachably holding the hinged panel part against the frame.

1,400,272. CHUCK FOR MACHINE-TOOLS. RUSSELL E. ELLIS, Chicago, Ill., assignor to Hamilin Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 20, 1917. Serial No. 208,013. 19 Claims. (Cl. 279—122.)



1. The combination in apparatus of the class described, of a hollow body, a tubular jaw holder slidably mounted in said body, radially movable jaws slidably mounted in said jaw holder, an abutment and means for effecting an inward movement of said jaws to grip the work and a simultaneous longitudinal movement of said jaw holder to position said work against said abutment.

1,400,273. PRINT-DRIER. BARNEY P. ENRIGHT, Perry, Okla. Filed May 20, 1921. Serial No. 471,231. 2 Claims. (Cl. 34—4.)



1. A print drier comprising coöperating upper and lower rollers; a drum; means for heating the drum; a belt engaged with the upper roller and with the drum; a feeding conveyer extended between the lower roller and the belt in driving engagement with the belt; and means for operating the feeding conveyer.

1,400,274. RESILIENT WHEEL. LANIOUS P. EBB, Seattle, Wash., assignor of one half to Harry G. Anderson, Seattle, Wash. Filed July 31, 1919. Serial No. 314,536. 4 Claims. (Cl. 152—42.)

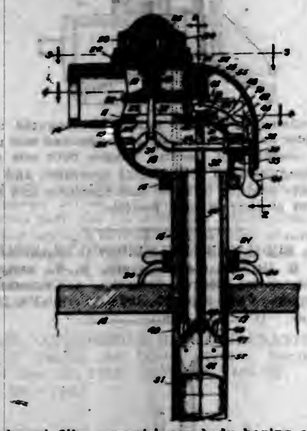
1. A wheel comprising a hub including inner and outer plates and an intermediate web defining two radially facing channels, yielding annular pouches therein, a rim in

two parts connected and spaced to slidably embrace the outer edge of said intermediate web, said parts having



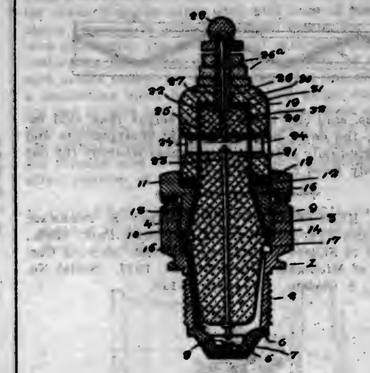
seats for the pouches, and torsion elements secured to and partly encircling the edge of said web and also secured to the rim.

1,400,275. BARREL-FILLER. CHARLES FISK, Flushing, N. Y. Filed Dec. 30, 1919. Serial No. 348,364. 5 Claims. (Cl. 226—127.)



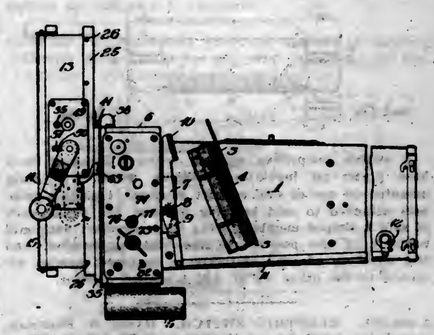
1. A barrel filler comprising a body having a laterally extending section and provided with an inlet, a valve-seat and an outlet nozzle extending downwardly from said lateral section, a crank-shaft extending horizontally through the length of said body and of said lateral section and above said nozzle, a self-closing valve within said body adapted to said seat and operatively associated with the crank of said shaft, a float in said nozzle having a rod extended therefrom up through said nozzle and the top of said lateral section and having thereon a stop to arrest said rod and float against undue descent, a float-lever pivotally mounted intermediate its end portions on the top of and closely adjacent to said lateral section and having on its inner end a foot freely resting upon the upper end of said float-rod, and a lever secured intermediate its ends upon the outer end of said shaft and having a hook adapted to be releasably engaged with the outer free end of said float-lever, for holding said valve in its open position.

1,400,276. SPARK-PLUG. HENRY LEE FLOOD, Ponca City, Okla. Filed Mar. 21, 1919, Serial No. 283,966. Renewed Aug. 30, 1921. Serial No. 497,047. 4 Claims. (Cl. 123—169.)



1. In a spark plug, the combination of an interiorly and exteriorly threaded shell, a bushing threaded into and removable from said shell, an insulating body fixed in and extending inwardly from the bushing and having a tubular portion extending outwardly from the bushing, an insulating cap disposed over said tubular portion, a spark point at the inner end of the shell, a wire extending through the insulating body and having its inner end opposed to said point, a threaded spindle disposed in the tubular portion of the insulating body and the cap and containing a wire opposed to the outer end of the first-named wire, and a cap engaging said spindle and carrying the second-named wire.

1,400,277. AVIATOR'S CAMERA. WILLIAM F. FOLMER, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 3, 1919. Serial No. 280,258. 14 Claims. (Cl. 95—23.)



1. In a camera, the combination with a camera body, a shutter mechanism and a detachable holder for sensitive material coöperating with the body, of means for automatically locking the shutter mechanism when the holder is detached from the body.

1,400,278. REINFORCING-BAR. HERMANN FOUGNER, New York, N. Y. Filed Mar. 15, 1921. Serial No. 452,524. 1 Claim. (Cl. 72—111.)

A reinforcing bar having straight longitudinal oppositely-disposed enlargements forming a plurality of troughs

therein, the outer edges of the oppositely-disposed enlargements lying in the same horizontal plane, and continuous transversely extending bonding ribs located in



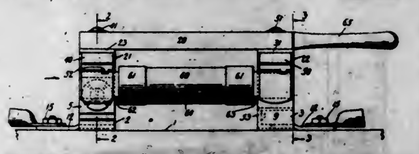
said troughs, said ribs being of less height than said enlargements, the outer portions of said enlargements and ribs being gradually reduced in thickness whereby the bar may be easily freed from the rolls.

1,400,279. ELECTRIC SWITCH. HARRY S. FREEMAN, Detroit, and FREDRICK ZENKER, Highland Park, Mich., assignors to Square D Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 24, 1917. Serial No. 198,256. 8 Claims. (Cl. 200—114).



1. In a switch, in combination, a bridge, clip contacts mounted thereon having open parallel jaws, a cartridge fuse having flattened terminals that are held in frictional engagement with said contacts by passing the flattened terminals between the said open parallel jaws, a base and contacts fixed thereon, comprising jaws adapted to embrace the jaws of the clip contacts of said bridge with the interposed flattened terminal of the fuse.

1,400,280. ELECTRIC SWITCH. HARRY S. FREEMAN, Detroit, and FREDRICK ZENKER, Highland Park, Mich., assignors to Square D Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 25, 1917. Serial No. 198,382. 1 Claim. (Cl. 200—114.)



A switch comprising contact members mounted on a base plate, an insulating bridging member pivotally mounted on one of said contact members, L-shaped members attached to said bridging member, one leg of each of said L-shaped members being in engagement with said contacts in one position of the bridging member, and clip members adapted to receive a flattened member attached to the other leg of said L-shaped member.

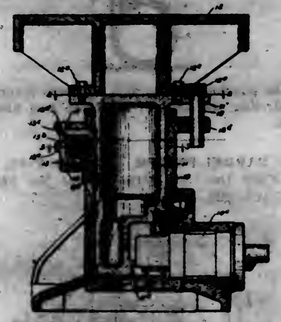
1,400,281. ELECTRIC SWITCH. HARRY S. FREEMAN, Detroit, and FREDRICK ZENKER, Highland Park, Mich., assignors to Square D Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 29, 1917. Serial No. 198,918. 3 Claims. (Cl. 200—114.)

1. In an electric switch, the combination with a flat terminal fuse member, a base member and spaced contact members mounted thereon one of which comprises a U-shaped member, the outer ends of which are bent inwardly over and downwardly to form spaced double-wall resilient legs that are upstanding from the base, of a carrier comprising a pair of spaced contact members each having a pair of resilient jaw-members that are severally adapted to receive between said jaw-members in sliding engagement the flat terminal member, one of said carrier



contact members with the interposed flat terminal member being received in sliding engagement in said U-shaped contact member mounted on said base.

1,400,282. MOLDING-MACHINE. PHILETUS W. GATES, Chicago, Ill., assignor to Hanna Engineering Works, Chicago, Ill., a Corporation of Illinois. Filed Feb. 18, 1920. Serial No. 359,512. 4 Claims. (Cl. 74—86.)



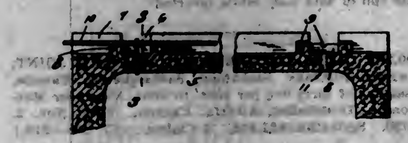
1. A cylinder, a plunger removably mounted therein, said cylinder having a plurality of flanges and said plunger having a plurality of coacting flanges, both sets of said flanges being provided with aligning apertures, and centering members adapted to enter said apertures and thereby center said plunger in said position.

1,400,283. SUBMARINE TELEPHONIC TRANSMITTER. HENRY B. GILSON, New Rochelle, N. Y., assignor to The Mechanical Rubber Company, a Corporation of New Jersey. Filed Sept. 25, 1918. Serial No. 255,568. 2 Claims. (Cl. 179—138.)



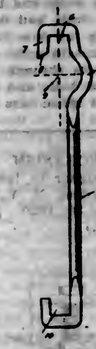
1. In a sound-box, in combination, a casing, a vibratory diaphragm, and a resilient support for said diaphragm attached thereto on a circle whose diameter is substantially two thirds that of the diaphragm.

1,400,284. BUILDING CONSTRUCTION. JOHN MELVIN HAHN, Kirklin, Ind. Filed Mar. 30, 1921. Serial No. 456,899. 4 Claims. (Cl. 72—40.)



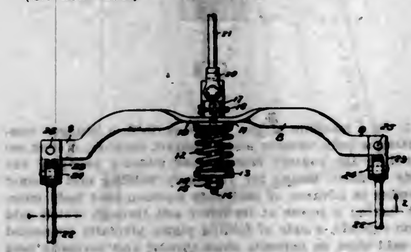
1. In a wall construction, building blocks having grooves formed in the upper surfaces thereof, binding rods supported in the grooves, means having connection with the binding rods and passing through openings in the blocks for securing the binding rods to the blocks, and means within the grooves for supporting the binding rods in spaced relation with the bases of the grooves.

1,400,285. WRENCH. WILLIAM ELIJAH HART, Bowden, Okla. Filed Mar. 10, 1921. Serial No. 451,280. 1 Claim. (Cl. 81—119.)



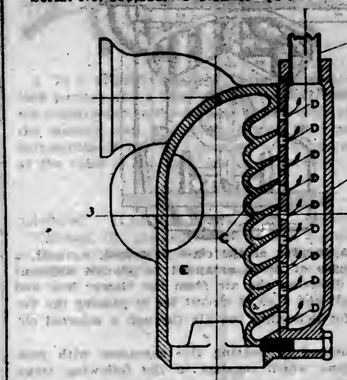
A wrench, comprising a bar having at one end portion an outwardly curved part and a rectangular jaw beyond the curved part, the tip of the bar which forms one side of the jaw having a beveled end and being of substantially the same length as the width of the jaw, and the center of the said curved part being substantially in line with the center of the jaw and at a distance of about twice the width of the jaw from the bottom thereof.

1,400,286. AUTOMOBILE BRAKE MECHANISM. SAMUEL D. HELLER and LENTON HUDSON, Pontiac, Mich. Filed Nov. 15, 1920. Serial No. 424,261. 7 Claims. (Cl. 188—204.)



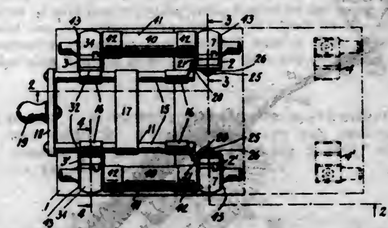
5. An automobile brake mechanism comprising an equalizing bar having a vertically disposed relatively thin central bearing plate and lateral extensions emanating therefrom of approximately the same thickness, said extensions being formed by twisting said bar to place the bodies of said extensions in a plane perpendicular to a plane coincident with said plate, the ends of said bar being rearwardly disposed with relation to said plate; a plurality of universally pivoted yokes operatively mounted at extremities of said lateral extensions for connecting the same with pull rods of brake mechanisms disposed in paired relation; means for connecting said plate with the draw bar of a brake mechanism for cushioning the strain of said mechanism on said plate, said means embodying a screw-threaded end of said bolt; a connecting block having a tapped socket for receiving the end of said bolt to permit of adjustment of said bolt with reference to said block and said plate for varying the normal tension of said spring; and a block pin extending through said bolt and block for maintaining the operative relation of said bolt and block.

1,400,287. EXHAUST-HEATED OIL-VAPORIZER. GEORGE M. HOLLEY, Detroit, Mich. Filed Dec. 13, 1920. Serial No. 429,365. 8 Claims. (Cl. 257—241.)



1. A vaporizer for liquid fuel consisting of a heating pipe adjacent to and surrounding a labyrinth through which the liquid fuel passes and a plurality of outlets from said labyrinth graduated and arranged so as to remove the fuel as it is vaporized.

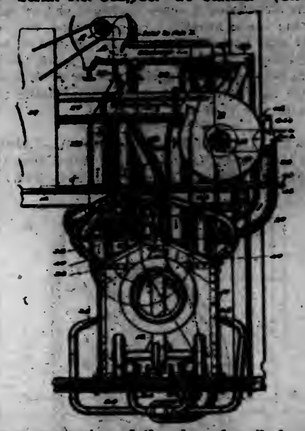
1,400,288. ELECTRICAL SWITCH. BAYSON D. HORTON, Detroit, Mich. Filed Nov. 10, 1917. Serial No. 201,220. 1 Claim. (Cl. 200—114.)



In a fuse-holding switch, in combination, a base, an angle member mounted thereon, a fuse-holding contact having laterally extending jaws, side walls and a flat attaching portion, the said attaching portion abutting an arm of the angle member, a bridging element comprising a metal extension fitted between the side walls of said fuse-holding contact, means comprising a pivot screw for associating the angle member, carrier extension and fuse-holding contact together in electrical communication and providing for the movement of said carrier pivotally relatively to said base, coöperating contacts, one on said base and one on said bridging element near the free end

thereof, and a second fuse-holding contact carried by said bridging element in electrical communication with the last said contact.

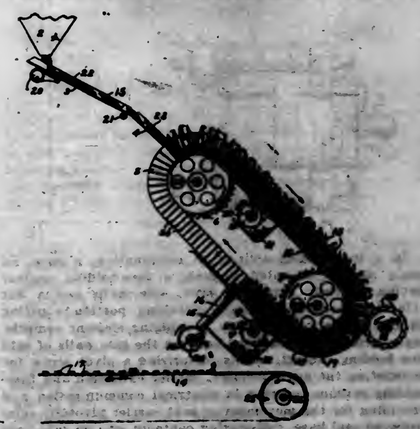
1,400,289. METHOD AND APPARATUS FOR DUSTING ARTICLES. Dwight B. Humphrey, Akron, Ohio, assignor to The Goodyear Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 8, 1919. Serial No. 342,736. 26 Claims. (Cl. 91—69.)



1. In an apparatus of the class described, a vault, a blower, a series of ducts arranged to provide different circuits for directing the air from the blower into and from the vault and a short circuit for by-passing the air, and means for deflecting the air through a selected circuit.

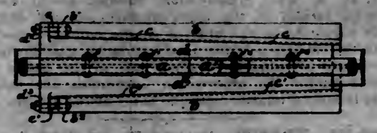
25. The method of coating tire carcasses with powdered soapstone which consists in the following steps, 1st, introducing the tires into a closable chamber, 2nd, releasing powder ladened streams of air under pressure, simultaneously against different portions of the surface of the tire whereby a coating of powdered soapstone is formed thereon, and 3rd, exhausting the floating particles of powder from the chamber.

1,400,290. BEAN-SNIPPER. Nicholas A. Johannes, Port Washington, Wis. Filed June 21, 1919. Serial No. 305,824. 26 Claims. (Cl. 146—11.)



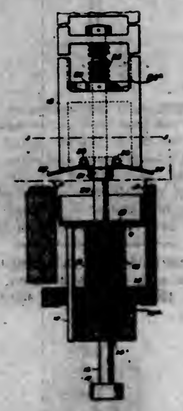
1. In a device for removing the ends of bodies, means for removing one end of a body while in a predetermined position, means for inverting said body, means for positively moving said body transversely of its direction of travel during inversion, and means for removing the opposite end of said body while inverted.

1,400,291. BASE-SUPPORTED RAILWAY-RAIL JOINT. Arthur Johnson, Saskatoon, Saskatchewan, Canada, assignor of forty-five per cent. to John Alexander MacDonald, Drumheller, Alberta, Canada. Filed Nov. 2, 1920. Serial No. 421,418. 3 Claims. (Cl. 238—210.)



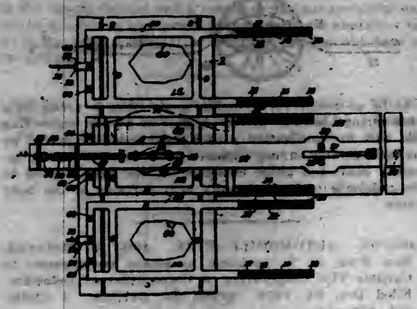
1. In a rail joint, a base plate having a recess with longitudinally converging walls and bolt lugs, a pair of splice bars engaging the rails and flaring outwardly at their lower ends over the rail base into said recess and formed to wedge between said walls and said rails and having bolt lugs, and bolts through said bars and rail held by suitable nuts and bolts and nuts longitudinally drawing and holding said splice bars in said recess.

1,400,292. FOLDING MECHANISM. Frank M. Joslin, Amsterdam, N. Y., assignor to Inman Manufacturing Company, Inc., Amsterdam, N. Y., a Corporation of New York. Filed Mar. 29, 1920. Serial No. 369,491. 3 Claims. (Cl. 92—47.)



1. In a machine of the kind described, a plunger comprising a body member and a contact member, a stem secured to the contact member and slidably engaging the body member, means for yieldingly holding said contact member in advance of said body member, said body member having a recess at its lower end through which said stem extends, a pair of folding plates pivotally connected to said stem on opposite sides thereof and normally held in yielding engagement with opposite sides of the front face of said body member when said contact member occupies its normal position in front of the body member, said plates being shaped to enter the recess of said body member upon relative movement of said body member and contact member.

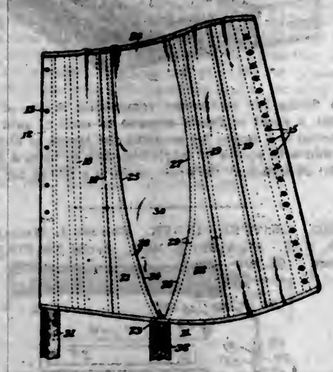
1,400,293. EMBROIDERY-FRAME. William Koelbl, White Plains, N. Y. Filed July 23, 1920. Serial No. 396,837. 11 Claims. (Cl. 112—89.)



1. The combination with a support, of a plurality of frames having pieces of cloth bearing similar patterns mounted thereon, means for guiding said frames successively along the support, and means arranged above the support and frames for positioning the cloth in each frame in turn to accurately correspond with the positions of the other pieces of cloth in the other frames to insure the same arrangement of the pattern in each frame for stitching in an embroidery machine.

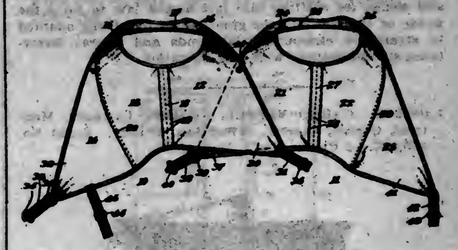
11. The combination with a support, of a frame having members adapter to clamp a piece of cloth bearing a design to be embroidered between them, a positioning member arranged above said support and hinged to swing toward and away therefrom, means on said positioning member for locating the design accurately in the frame to insure the proper stitching thereof in an embroidery machine, means for guiding the frame below said positioning member on the support, a latch for locking the clamping members of the frame together, an operating arm extending from said latch, and a slide on the positioning member to releasably engage said arm to support said latch in unlocking position.

1,400,294. APPAREL-CORSET. Daniel Kops, New York, N. Y. Filed Nov. 16, 1920. Serial No. 424,340. 2 Claims. (Cl. 2—73.)



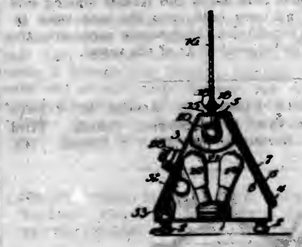
1. An apparel corset comprising corset body halves each having depending skirts, and a side portion made of component parts each extending from the upper edge of the garment to the lower edge of the skirt and formed and connected to provide a circumferential concave section for fitting over the hip bone of the wearer to relieve the pressure otherwise placed thereon in the use of the garment.

1,400,295. BRASSIÈRE. Waldemar Kops, New York, N. Y. Filed Nov. 17, 1920. Serial No. 424,613. 5 Claims. (Cl. 2—73.)



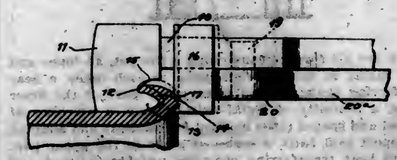
1. In a brassière, garment members each comprising a back portion and a front portion, the extremities of which are constructed to extend around the sides of the body of the wearer, and adjustable devices for connecting the extremities of the said members of the garment together at the sides of the waistline of the wearer.

1,400,296. ILLUMINATED SIGN. Isidor J. Kusel, Chicago, Ill., assignor to Stronghart Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 6, 1916. Serial No. 89,307. 2 Claims. (Cl. 40—130.)



1. The combination of a box or casing made of elongated substantially triangular form, one of the inclined sides of said box or casing being hinged at its upper edge, said box or casing having its top provided with a longitudinally extending slot provided with a light pervious sign and lighting devices within said box or casing.

1,400,297. AUTOMOBILE-WHEEL-RIM-STRAIGHTENING DEVICE. Paul R. La Brant and Adolph C. Nordhaugen, Stanley, N. D. Filed Feb. 2, 1921. Serial No. 441,894. 1 Claim. (Cl. 81—15.)



In a portable tool for straightening the flanges of rims of automobile wheels, a shank, a stationary jaw carried by the shank and having a groove formed therein and provided at one edge of the jaw with a tongue correspond-

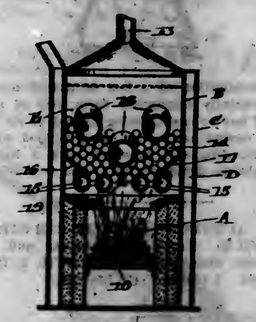
ing to the proper shaping of the hand-receiving undercurface of the flange, said tongue and groove being longitudinally arcuately curved to conform to the curvature of the rim, the wall of the groove opposing said tongue being inclined toward the base of said tongue, a shiftable jaw slidably mounted upon the base of said shank and grooved to engage the outer face of the flange to force the flange into the groove on the stationary jaw and into engagement with said tongue to be formed by the latter, and means for shifting said last named jaw to force the flange of the rim into the groove, said tool being adapted to straighten circumferential bends and lateral distortions simultaneously with one operation.

1,400,298. CARGO VESSEL. WALTER LAMBERT, Montreal, Quebec, Canada. Filed Jan. 6, 1921. Serial No. 435,807. 2 Claims. (Cl. 214—16.)



1. In a cargo vessel, a hull having side walls converging from a point intermediate of their height and flaring at their upper ends and terminating in a downwardly turned lip, transverse bulk heads and frames bracing said sides and leaving an open hold from the said sides inwardly and means for driving the floatable cargo over the flaring sides movable longitudinally of the vessel.

1,400,299. HOT-AIR FURNACE. ALFRED BUCHANNAN MCADAM, Moose Jaw, Saskatchewan, Canada. Filed May 13, 1921. Serial No. 469,278. 2 Claims. (Cl. 126—99.)



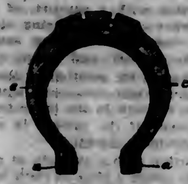
1. A hot air furnace comprising a fire pot, an inner and outer casing in spaced relationship to each other, a heat transferring chamber within the upper part of the inner casing, a plurality of metal balls therein, a plurality of parallel and spaced pipes inclined horizontally and adapted to support said balls, a series of pipes in the upper part of said heat transferring chamber suitably inclined and extending from one side of the casing to the other in staggered relationship to one another, a chimney leading from said inner casing, and a transversely extending central conduit in said inner casing.

1,400,300. TRAILER FOR VEHICLES. HARRY B. MCCAMY, Mount Pleasant, Iowa. Filed Dec. 8, 1920. Serial No. 427,723. 3 Claims. (Cl. 280—106.5.)



1. In a trailer for vehicles, comprising a crank axle with springs secured thereto, a pair of wheels supporting said axle in combination with a body frame supported by the springs and having opposite portions of the sides upwardly bent, and guide members for the axle secured to the underside of the upwardly bent portions of the body frame.

1,400,301. AUTOMOBILE-TIRE. JOHN S. MCCLUNG, New York, N. Y., assignor, by mesne assignments, to Carlisle Tire Corporation, a Corporation of Delaware. Filed Dec. 24, 1919. Serial No. 347,224. 1 Claim. (Cl. 152—13.)



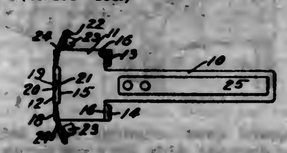
In a tire casing of the type comprising two annular bead members and continuous strands of cord wound spirally about the same, that improvement which consists in the employment of solid braided cord impregnated with rubber having an inner core comprising unvulcanized rubber.

1,400,302. FILLING FOR MATTRESSES. FREDERICK MAUBENNE, Collingswood, N. J., assignor to Henry Wilhelm Company, Pittsburgh, Pa. Filed May 27, 1920. Serial No. 384,561. 2 Claims. (Cl. 10—10.)



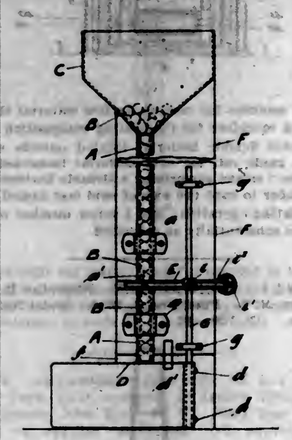
1. A filling for mattresses comprising layers of filling material, a sheet of fabric secured to each of said layers of material and means for securing the layers of filling material and said sheets of fabric together to form a bulk of material of sufficient thickness to form a filling for a mattress.

1,400,303. GRIPPER-FINGER. EDWARD L. MEGILL, New York, N. Y. Filed May 6, 1920. Serial No. 379,248. 9 Claims. (Cl. 101—408.)



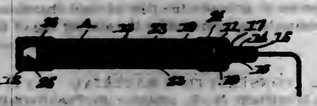
1. The combination with a press gripper, of a gripper finger having a unitary base provided with stationary angularly projecting abutments spaced in the direction of the length of the finger a distance at least equal to the width of the gripper to thereby enable engagement of the same flatwise over the gripper substantially at any point in the length thereof and a bowed spring supported by one of the abutments and projecting beyond said abutment toward the other abutment to yieldingly engage the edge of the gripper.

1,400,304. MACHINE FOR FILLING PILL-BOXES WITH A REGULAR QUANTITY OF PILLS. ROBERT SYDNEY MERCER, Blackburn, England. Filed Aug. 27, 1920. Serial No. 406,471. 2 Claims. (Cl. 226—2.)



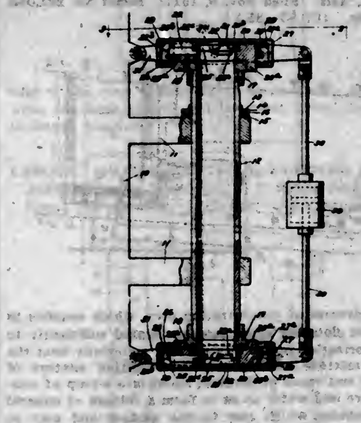
1. Apparatus for delivering regular quantities of articles, comprising a tube having an upper portion and a lower portion separated from one another by a small space, a receptacle for supplying such portions with the articles, a frame for carrying the tube and receptacle, a rod rotatably mounted in bearings on such frame, an upper cut-off comprising an arm fixed on the rod and adapted to be interposed between the two portions of the tube, a lower cut-off comprising a plate fixed on the rod and arranged to be moved across the lower end of the tube, means for limiting the movement of the plate in either direction and a spring for normally causing the plate to lie across the lower end of the tube and the upper arm to lie away from the tube.

1,400,305. ELECTRIC HAIR-CURLER. MARIE MILLER, Ottawa, Ontario, Canada. Filed Mar. 22, 1920. Serial No. 367,790. 2 Claims. (Cl. 219—24.)



1. A hair curler of the class described comprising a cylindrical casing open at one end and closed at the other end, a resilient member, a pair of concentrically arranged caps between which a portion of the resilient member is frictionally retained, the ends of the resilient member extending longitudinally of the casing but on opposite sides thereof, a cap for the open end of the casing designed to secure the free end of the resilient member to the casing, and a heating element within the casing.

1,400,306. CHUCK FOR MACHINE-TOOLS. EDWIN P. MILLER, Chicago, Ill., assignor to Hamilton Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 26, 1917. Serial No. 208,906. 7 Claims. (Cl. 279—122.)



1. The combination in a device of the class described, of a long tubular body member, bearing members engaging said body member between its ends for supporting the same, a plurality of radially movable jaws mounted at each end of said body member, jaw actuating members mounted outwardly of said jaws, and means for effecting relative movement of said jaw actuating members with respect to said body member for actuating said jaws.

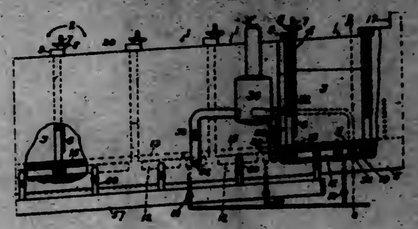
1,400,307. FEED HOLDER AND TROUGH. ERNEST H. MITTMAN, Muscatine, Iowa. Filed June 12, 1920. Serial No. 388,555. 2 Claims. (Cl. 119—53.)



1. A device of the class described having a rear wall and side walls extending therefrom, said rear wall extending inwardly to form a trough in combination with the side

walls, a rod joining the side walls adjacent the open ends of at the front, a wall connected by said rod and extending downwardly and inwardly toward the rear wall, a gate pivoted on said rod, lever means extending from the gate to the fourth mentioned wall, said fourth mentioned wall terminating short of the inwardly extending portion of the first wall to provide a gap, and a valve governing the said gap mounted by the fourth mentioned wall on the interior thereof.

1,400,208. ORE CONCENTRATION. DAVID D. MOFFAT, Hayden, Ariz. Filed Nov. 9, 1917. Serial No. 201,643. 8 Claims. (Cl. 23—95.)



1. The process of concentrating ores, which consists in distributing flotation agent into air heated sufficiently to cause vaporization of such agent, and materially heat the resulting mixture and forcing the resulting mixture of heated air and vapor of flotation agent into a pulp of comminuted ore and water, so as to form a column of mineral bearing bubbles which rise to the surface and may be floated off.

1,400,209. EGG-BEATER. GEORGE D. MUNSING, New York, N. Y. Filed Oct. 20, 1920. Serial No. 418,288. 1 Claim. (Cl. 259—113.)



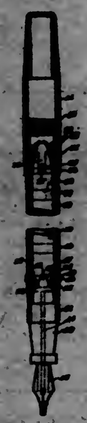
An agitating device of the class described, comprising a cylinder, an agitator operating in said cylinder and having an operating rod projecting upwardly therefrom, a guide member for said rod having parallel side arms engaging said cylinder at their lower ends and having a transverse upper connecting member perforated to guide said rod, the upper portion of one of said side arms being offset to provide a hand grip, as described.

1,400,[illegible]. CASTING MACHINE. HENRY M. HANSMAN, Lexington, Ky. Filed [illegible], 1921. Serial No. [illegible]. 8 Claims. (Cl. [illegible])



1. In a machine for casting flexible material the combination of a container for the casting composition; a guide roll for said flexible material located outside said container; a guide roll for said material immersed in said composition; means comprising a rockable horizontally disposed member to exert the axis of said last named roll during the casting operation; and a screw member to actuate said means substantially as described.

1,400,211. FOUNTAIN-PEN. NICHOLAS B. PAHOFF, Brooklyn, N. Y. Filed Dec. 7, 1920. Serial No. 428,940. 1 Claim. (Cl. 120—46.)



In a fountain pen, a reservoir, means for contracting the discharge end of said reservoir to prevent a flow of fluid therefrom, and means for contracting the rear end of said reservoir to promote the flow of fluid therefrom, both of said means being operated by the closing cap of the pen.

1,400,212. CONSTRUCTION MATERIAL. RAY P. PEREY, Upper Montclair, N. J., assignor to The Barrett Company, a Corporation of New Jersey. Filed Sept. 2, 1920. Serial No. 407,969. 14 Claims. (Cl. 154—81.)

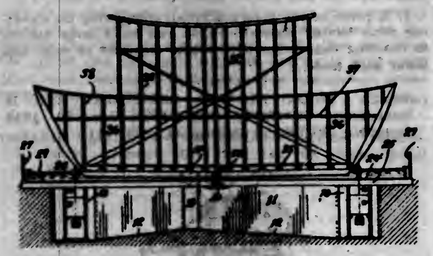
1. The process which comprises forming sheets containing fibrous material and waterproofing material so that the fibers lie in one general direction, plying a plurality of such sheets together so that fibers in one sheet are at an angle to those in an adjacent sheet, and heating and pressing the same.

1,400,213. APPARATUS FOR DETERMINING THE AMOUNT OF HEAT IN THE AIR. CARL HEINRICH PAUTZ, Rheydt, Germany. Filed Feb. 20, 1914. Serial No. 819,389. 1 Claim. (Cl. 73—24.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



In apparatus for determining the amount of heat in the air, a wet-bulb thermometer having a scale graduated in heat units in a given amount of air and including those in the moisture in such air.

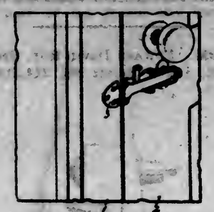
1,400,314. AMUSEMENT DEVICE. LE ROY RAYMOND, Ocean Park, Calif., assignor to Arnold Neble and William Densel, New York, N. Y. Filed May 26, 1920. Serial No. 384,503. 6 Claims. (Cl. 46—71.)



1. In an amusement device the combination of a shallow tank, a vessel pivoted therein, said vessel being in the form of a houseboat and having substantially its entire body projecting above the said tank, anchors located below the said tank, a rocking member mounted on the said vessel and connected to the said anchors and means on said vessel for actuating said rocking member to oscillate the said vessel on its pivot.

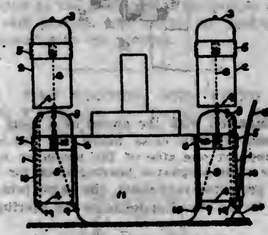
1,400,315. SAFETY DOOR-FASTENER. JAMES M. REED, Brooklyn, N. Y. Filed May 21, 1920. Serial No. 383,216. 4 Claims. (Cl. 292—278.)

1. A door fastener comprising a tongue having a hook at one end, means for pivotally connecting said tongue to the door jamb, said means being arranged at the end opposite to said hook, a spring acting on said tongue for normally holding the tongue against said jamb, and a U-shaped member pivotally mounted on the door adjacent the jamb, the pivotal mounting of said U-shaped member being spaced from the door a sufficient distance to allow one end of the U-shaped member to overlap the



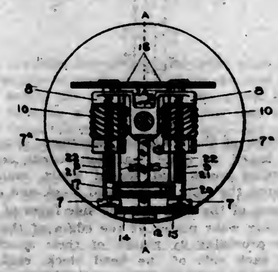
edge of the door sufficiently to accommodate said tongue when the hook shaped end has been moved through the U-shaped member.

1,400,316. ART OF RAISING SUBMERGED VESSELS. JESSE W. RENO, New York, N. Y. Filed June 15, 1921. Serial No. 477,663. 5 Claims. (Cl. 114—52.)



1. In the art of raising submerged sunken vessels by vertical pontoons, containing air, adapted to raise a sunken vessel, a vertical double tandem pontoon, comprised of several comparatively short-length hollow cylinders, with an open lower end and a closed upper end, flexibly connected together, one substantially over the other, the vertical double tandem pontoon being adapted to be attached to the said vessel and by the buoyant force of air raise the vessel from off of the bed of the sea.

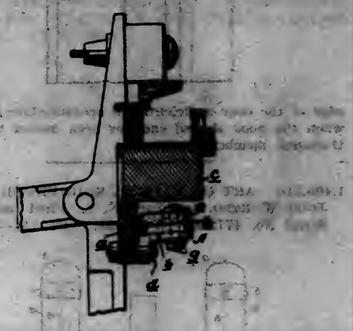
1,400,317. CHANGE-SPEED GEARING. JOHN BOYNS ROWE and ARTHUR GARFIELD BARRATT, Johannesburg, Transvaal, South Africa. Filed June 16, 1920. Serial No. 389,427. 3 Claims. (Cl. 74—34.)



1. A change speed gearing comprising a driving shaft, a driven shaft, a worm wheel fast on the driven shaft, a worm shaft and a friction wheel shaft geared together arranged at right angles to the driving shaft in bearings carried thereby, a worm on the worm shaft in gear with the said worm wheel, the pitch of the worm being such that when unrestrained it will be rotated idly as it is

carried around the worm wheel by rotation of the driving shaft, a friction wheel mounted on the said friction-wheel shaft, and a stationary member arranged to provide a path on which the said friction wheel can roll.

1,400,318. LOOM. Edward David Roy, Greenville, S. C. Filed Mar. 25, 1918. Serial No. 224,510. 2 Claims. (Cl. 139—18.)



1. In combination with the sword of a loom having a bearing formed therein close below the lay-beam and adapted to support one side of the protector rock-shaft, an adjustable oil-impregnated bearing-block for the other side of said protector rock-shaft, the same being detachably secured to the sword opposite to the bearing therein.

1,400,319. HEADBLOCK FOR PRESSERS. Edward Carl Rudoll, Rice Lake, Wis. Filed July 19, 1920. Serial No. 397,203. 1 Claim. (Cl. 100—14.)



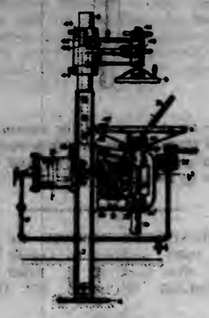
A head block of the character described, comprising a supporting board or plate, parallel boards secured to said supporting board and spaced apart, metal strips secured around the ends of the head block and embedded in the surfaces of the ends and the side faces of the head block providing wear plates at the edges of the grooves, said boards providing by reason of their spacing three grooves on each side of the head block, each of said grooves having a pair of walls at right angles to each other, and a third inclined wall, whereby said grooves are narrowest at their entrances and of greatest width at their inner portions, the grooves midway the ends of the boards being adapted for use in connection with a single wire bale tie and the end grooves for double wire bale tie.

1,400,320. ROLLER CHAIN. Hermann B. Ryan, Milford, Conn., assignor to Gf N Gn Chain Corporation, New York, N. Y., a Corporation of Delaware. Filed Aug. 19, 1918. Serial No. 250,418. 13 Claims. (Cl. 152—14.)



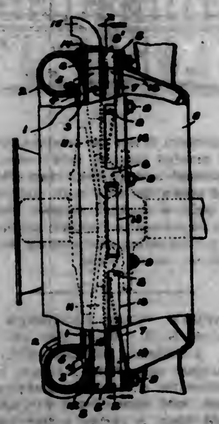
1. In a chain of the class described, the combination of a side-link, and a cross-link having means adapted to engage said side-link and having locking means adapted to engage said side-link by a movement transverse to the direction of the cross-chain.

1,400,321. PRESS FOR SQUEEZING SAND IN FLASKS. Charles F. Schultis, Cleveland, Ohio, assignor of one-half to William J. Schoemberger, Cleveland, Ohio. Filed July 2, 1920. Serial No. 393,492. 9 Claims. (Cl. 22—43.)



1. A press of the type described, comprising an elevating table having separate pistons and hand lever devices in coacting connection with toggle members to raise and lower said table.

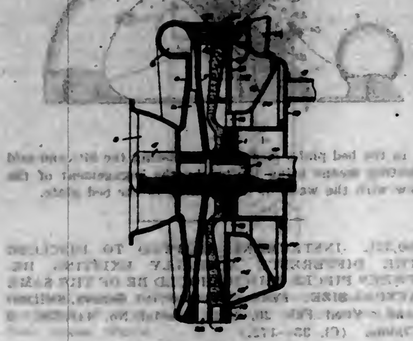
1,400,322. TURBO-BLOWER ASSEMBLY. Earl H. Sherbondy, Cleveland, Ohio. Filed Apr. 30, 1918. Serial No. 231,765. 2 Claims. (Cl. 230—11.)



1. In a turbo-blower assembly, a turbine casing, a blower casing, means engaging with each casing to hold

the two casings spaced apart so as to leave an air space therebetween, and an annular plate, carried by said means and extending into said air space.

1,400,323. TURBO-COMPRESSOR CASING. Earl H. Sherbondy, Cleveland, Ohio. Filed Aug. 1, 1918. Serial No. 247,845. 5 Claims. (Cl. 230—11.)

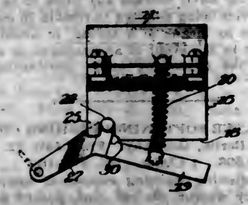


1. In combination with a gas engine turbine, a peripherally supported baffle in the path of the exhaust from said turbine, said baffle being free to flex along its body without transmitting the distortion substantially to the support of said baffle.

1,400,324. WAX FLOWERS AND PROCESS OF MAKING THEM. Louis D. Singer, Harrodsburg, Ky. Filed June 28, 1920. Serial No. 392,381. 1 Claim. (Cl. 41—13.)

A process for producing wax flowers and the like which consists in subjecting a flower of crape or other suitable paper to a series of treatments, each consisting in immersing the flower in a melted wax bath; then removing the article and cooling it until the coating is completely dried, each successive bath being of a temperature lower than its predecessor.

1,400,325. CUT-OUT FOR EXHAUST-PIPES. Samuel P. Smoke, Chicago, Ill. Filed Jan. 12, 1920. Serial No. 350,792. 3 Claims. (Cl. 251—19.)



1. In a device of the class described, a body providing a channel from its interior to its exterior, a plate serving to close the exterior end of said channel, connections by which the plate may be opened, and two pivot points upon which said plate moves in succession when being opened or closed.

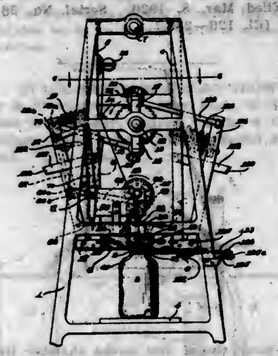
1,400,326. CHILD'S VEHICLE. Carmelo Sollima, Paris, France, assignor to Camillo Pignatosa, Rome, Italy. Filed Jan. 20, 1921. Serial No. 438,716. 2 Claims. (Cl. 280—87.)

1. In a child's vehicle, a frame, an axle, wheels on the axle, a ratchet wheel fixedly secured to the axle and having on each face ratchet teeth extending in the same direction, drums loosely mounted on the axle on opposite sides of the ratchet wheel, pedals pivoted at one end to the forward part of the frame and having their free



ends extending over the axle, a pinion on each drum, spring pawls in the drums and engaging the ratchet wheel, racks pivoted to the free ends of the pedals and meshing with the said pinions, and means for holding the racks in engagement with the pinions.

1,400,327. BAG CLOSING AND TYING MACHINE. Charles F. Sparks, St. Louis, Mo. Filed Oct. 28, 1920. Serial No. 419,151. 44 Claims. (Cl. 226—27.)

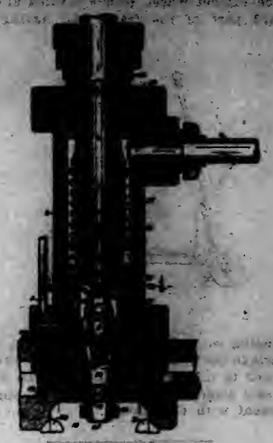


1. In a machine for closing and tying bags or the like, the combination of means for holding the neck of the bag, a needle, means for reciprocating the same, loop mechanism for forming a loop of the tying cord around and extending from the neck of the bag with one of the cords of the loop disposed across and on one side of the path in which the needle reciprocates, and the other cord of the loop disposed across and on the other side of said path, said needle having means for catching a part of the tying cord beyond the loop, and to pull the loop tight in the return movement.

1,400,328. INTERNAL-COMBUSTION ENGINE. Carl G. Strabo, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Nov. 14, 1918. Serial No. 262,803. 10 Claims. (Cl. 123—33.)

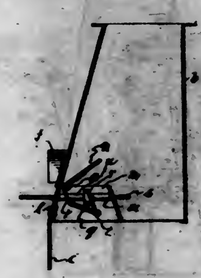
1. In combination, an engine cylinder having a combustion zone, means providing a mixing chamber constantly communicating with said zone through a restricted

orifice, means for restrictively admitting air directly to said chamber, an oil well, means for admitting oil to said



well, and means for restrictively delivering oil from said well to said chamber past said air admission means.

1,400,329. FIREPLACE. JAMES H. STITES, Detroit, Mich. Filed Mar. 8, 1920. Serial No. 364,147. 2 Claims. (Cl. 126—288.)



1. A fire-place throat and smoke chamber lining comprising a main metal inclosure having dimensions at the bottom approximating the horizontal cross section of the fire-place back of the opening and tapering toward the top of approximate the dimensions of the flue opening, a subordinate inclosure secured in the main inclosure at the front and bottom to form the fire-place throat, the remainder of the main inclosure thereby forming the smoke chamber, and a damper supported in the subordinate inclosure to regulate the opening through said throat.

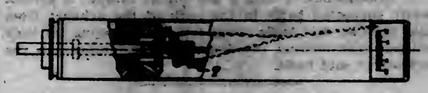
1,400,330. PLANE. EUGENE J. SWEENEY, Rockford, Ill. Filed May 3, 1921. Serial No. 466,443. 4 Claims. (Cl. 145—5.)

3. A plane, including a stock, a frog integral with the stock, a bit, a cushioning bed plate interposed between the frog and bit and supporting the bit, said bed plate having an opening therein, said bit having a series of openings therein appreciably smaller than the opening in the bed plate, a shaving breaker super-imposed on the bit and having an opening therein registering with the opening in the bed plate and selectively with one of the openings in the bit, a screw passed through said registering openings in the shaving breaker and bit and extending into the open-



ing in the bed plate, means for adjusting the bit, and said adjusting means being limited by the engagement of the screw with the walls of the opening in the bed plate.

1,400,331. INSTRUMENT ADAPTED TO DISCLOSE THE DIFFERENCE ACTUALLY EXISTING BETWEEN PIECES WHICH SHOULD BE OF THE SAME ACTUAL SIZE. FERNAND TURRETTINI, Geneva, Switzerland. Filed Feb. 26, 1921. Serial No. 448,236. 3 Claims. (Cl. 33—172.)



2. In a needle indicator and in combination a body member, a measuring anvil adapted to slide within said body member, a spring for acting upon said anvil, a knife rigidly connected to said anvil, a rocking lever having two arms of unequal length, the longer one being adapted for serving as an index, a second knife, means for adjusting said second knife, a plate having a groove being adapted to receive the edge of the knife rigidly connected to the anvil, a second plate fixed upon said first plate, the apex of the groove in said first plate being in the plane passing through the bottom surface of said second plate and through the edge of said adjustable knife, the edges of both knives being directed one against the other, said edges being adapted to be separated from one another when the anvil touches any piece to be measured, the rocking device being adapted to remain in contact with the knife edges by means of a spring, to avoid damaging the instrument in the event of an excessive or abrupt displacement of the measuring anvil, substantially as described.

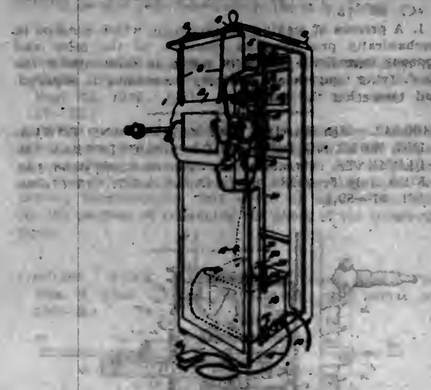
1,400,332. WATER-SOFTENING WASHING COMPOUND. OTTO VOLS, Berlin, Germany. Filed July 22, 1919. Serial No. 312,506. 1 Claim. (Cl. 87—16.)

A water softening washing compound comprising approximately, by weight, 50 per cent. potato flour, 8 per cent. chalk, 10 per cent. powdered kaolin, 26 per cent. caustic soda, 16 per cent. powdered borax and 16 per cent. calcinated soda.

1,400,333. FLUOROSCOPIC X-RAY SYSTEM. HARRY F. WAITE, New York, N. Y. Filed Nov. 20, 1920. Serial No. 426,296. 1 Claim. (Cl. 250—84.)

In a device of the class described, an X-ray tube and means for movably supporting the same, a source of electricity for said tube, means for connecting the cathode of the tube to the said source of electricity and an adjustable means for connecting the anode of the tube to the source of electricity composed of a fixed rod with a slid-

ably mounted, pivoted and laterally extending means so that when the device is in use the anode and source of



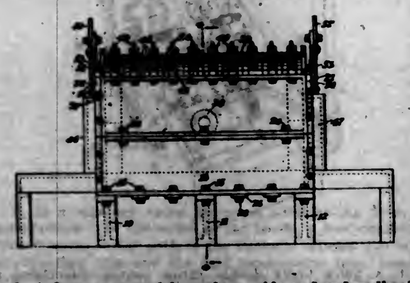
electrical supply will always be properly connected by a conductor of large capacity which will overcome or reduce corona effects.

1,400,334. GUARD FOR TELEPHONE-TRANSMITTERS AND THE LIKE. GLADYS H. WEINRICH, Chicago, Ill. Filed Mar. 10, 1921. Serial No. 451,230. 3 Claims. (Cl. 179—185.)



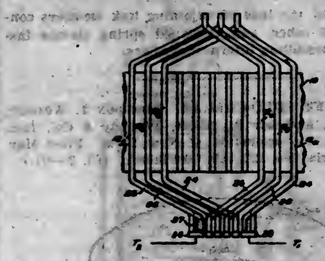
3. As a new article of manufacture, a sanitary guard for the mouthpiece of a transmitter or the like comprising a conical section having its edge portion flanged backward and crimped and adapted to engage the edge portion of a telephone transmitter mouthpiece, and a flat section adapted to set over said conical section and having its edge portion flanged backward and crimped and adapted to engage the edge portion of the conical section, substantially as described.

1,400,335. FURNACE. JOSEPH T. WENSIULIS, New York, N. Y., assignor to Columbia Machine Works & Malleable Iron Co., Brooklyn, N. Y., a Corporation of New York. Filed July 3, 1920. Serial No. 393,970. 6 Claims. (Cl. 263—40.)



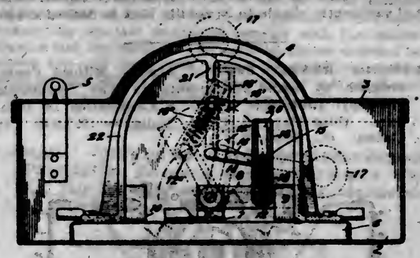
1. A furnace comprising a base, side and end walls rising therefrom, and a multiple section top, each section of the top consisting of an arched body portion having integral retaining and supporting flanges at the ends thereof, a lining extending between and held in position by the said retaining flanges, and means for securing each top section in position so as to be separately removable from the walls of the furnace.

1,400,336. WINDING FOR DYNAMO-ELECTRIC MACHINES. ROBERT B. WILLIAMSON, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Dec. 1, 1916. Serial No. 135,082. 10 Claims. (Cl. 171—206.)



4. In an alternating current dynamo electric machine, a core provided with slots, an induced winding, having end turns, comprising a plurality of parallel connected comparatively heavy branches in the slots, and means, other than the relative disposition of the branches, associated with the end turns of said winding for insuring the current divides so as to secure uniform current density in the branches.

1,400,337. QUICK-BREAK DOUBLE-THROW SWITCH. ARTHUR R. WOOLPOLE, Jr., New York, N. Y., assignor to Square D Company, Detroit, Mich., a Corporation of Michigan. Filed July 10, 1918. Serial No. 244,179. 5 Claims. (Cl. 200—73.)

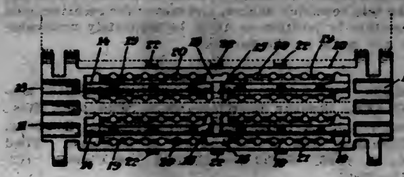


1. A quick break double throw switch comprising cooperating stationary and movable contacts, a cross head attached to said movable contacts, an operating member, a link intermediate said operating member and cross-head, and a cam member for tilting said link.

1,400,338. CARRIER FOR CARD-MATCH MACHINES. JACOB P. WRIGHT, Barberton, and CHARLES F. WRIGHT, Akron, Ohio, assignors to The Diamond Match Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 9, 1921. Serial No. 460,123. 3 Claims. (Cl. 144—85.)

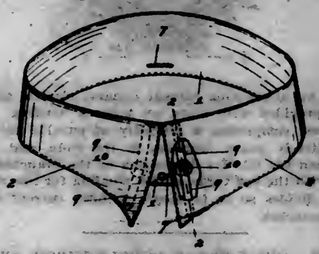
3. A match-card carrier embodying hingedly-connected link members, whereof each member comprises toothed end portions, a central bar, two side bars and two bars intermediate the central bar and the respective side bars, all said bars being in spaced parallel relation to each other and connecting said end portions, said central bar

having angular extensions connecting the said intermediate bars, rocker-lugs on the outer faces of the side bars



so disposed that the lugs of adjoining link members contact with each other, and U-shaped spring clamps fastened to and straddling intermediate bars.

1,400,339. SOFT FOLD-COLLAR. SHELDON T. WRIGHT, Troy, N. Y., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y., a Corporation of New York. Filed Mar. 4, 1918. Serial No. 220,119. 6 Claims. (Cl. 2—91.)



1. The combination with a fold-collar having a band and a soft folded-over top, of supporting members for the ends of the folded-over top, said supporting members being made of inelastic material relatively stiff as compared with the material of which the folded-over top is made, and sufficiently pliable to be readily bent to desired shape.

1,400,340. BRAKE. FRANK G. ALDOUS, Milford, Conn., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn., a Corporation of Delaware. Filed Mar. 12, 1918. Serial No. 221,941. 18 Claims. (Cl. 188—75.)

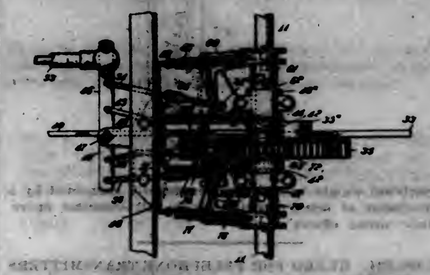


1. In a brake-mechanism, the combination of a brake-drum, a pair of oppositely disposed brake-shoes coöperating therewith, a pair of brake-shoe carrying levers, a support on which said levers are fulcrumed, a brake-lever connecting rod supported by said support, a pair of brake-lever carrying abutments mounted on said support, one to slide lengthwise of said rod, brake-shoe releasing means urging said levers toward said abutments, and brake-shoe applying means including coöperating inclined planes to move said rod and one of said abutments relatively to the other thereby to carry said brake-levers toward each other and said brake-shoes toward said brake-drum.

1,400,341. PROCESS OF MANUFACTURING OLEOMARGARIN. WILLIAM T. ASHER, Cleveland, N. J. Filed Aug. 24, 1920. Serial No. 405,714. 7 Claims. (Cl. 99—13.)

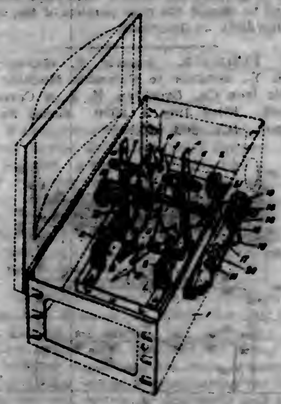
1. A process of making oleomargarin, which consists in mechanically producing an emulsion of the fatty and aqueous ingredients which is stable at substantially the emulsifying temperature, whereby no chilling is required, and tempering the same.

1,400,342. MECHANISM FOR RAISING AND LOWERING WORKING DEVICES OF AGRICULTURAL IMPLEMENTS. CHARLES ALLEN BACON, South Bend, Ind. Filed July 5, 1918. Serial No. 243,327. 15 Claims. (Cl. 97—39.)



1. The combination in an agricultural machine including a frame and a working device or tool, a wheel for supporting the frame, means operatively connected with the working device or tool for raising or lowering the same, comprising a gear, means operatively connecting said gear with said supporting wheel comprising double clutch mechanism for positively connecting said gear with said driving wheel to lift the working device or tool and to positively connect said gear with said driving wheel to drive said gear in the reverse direction to force said working device or tool downwardly, and means to render each of said clutch mechanisms inoperative when said working device or tool is at the limits of its movement in both raised and lowered positions.

1,400,343. QUICK-BREAK DOUBLE-THROW SWITCH. ALBERT P. BALL, Royal Oak, Mich., assignor to Square D Company, Detroit, Mich., a Corporation of Michigan. Filed June 17, 1918. Serial No. 240,276. 18 Claims. (Cl. 200—73.)



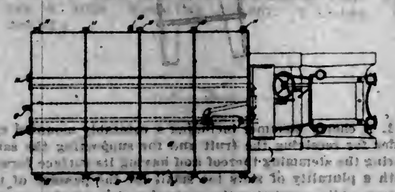
1. A quick break double throw switch comprising a plurality of stationary and movable contacts, said movable

contacts [illegible] a yoke rigidly connected [illegible] operating member, and resilient means connecting the operating member to a point on said yoke intermediate the ends thereof.

1,400,344. EMBALMING PROCESS FOR DEODORIZATION. THORNTON B. BARKER, New York, N. Y. Filed Sept. 22, 1919. Serial No. 325,751. 2 Claims. (Cl. 27—22.)

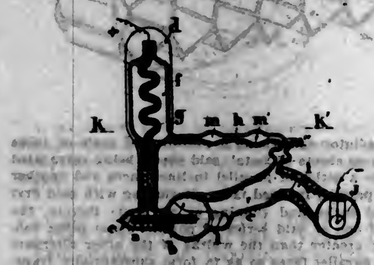
1. The process of [illegible] comprises, first, the injection into the body [illegible] gas for the purpose of neutralising any [illegible] which may be present, and then injecting into the body a preserving liquid containing formaldehyde, this order of application being for the purpose of enhancing the effect of the preserving liquid.

1,400,345. TANK. ALFRED DAVIS, Casper, Wyo. Filed Feb. 6, 1920. Serial No. 356,684. 1 Claim. (Cl. 280—5.)



The combination with the chassis of an automobile truck, of a tank supported thereon and comprising a deep center section including a bottom and vertical side and end walls, a pair of shallow lateral sections each including an inclined bottom wall extending laterally from the side of the tank and secured at its inner end to the vertical side wall of the tank, and a common flat top for said center section and said lateral sections resting upon the vertical wall of the center section and secured thereto and secured along its marginal edges to the outer ends of the inclined walls of said lateral sections whereby the portions of the top which project beyond the center section, the vertical side walls and the inclined bottom walls of the lateral sections are organized to form a truss so that the flat top common to the sections of the tank constitutes a loading bed for the truck.

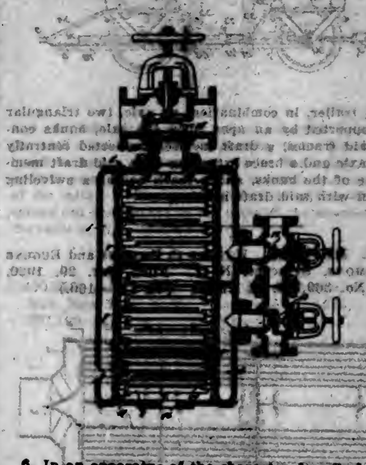
1,400,346. MERCURY-VAPOR LAMP. MARIE JOSEPH CORNU, Paris, France. Filed Feb. 28, 1916. Serial No. 81,721. 6 Claims. (Cl. 176—42.)



3. In a mercury vapor lamp, an illuminating tube, a compression tube connected to the anode, a semi-capillary tube inserted in the path of the mercury between the said illuminating tube and the said compression tube, means assuring the electric connection between the two parts,

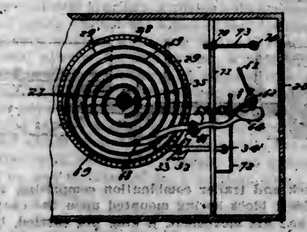
and striking tube, a capillary tube connection the said arc striking tube to the intermediate tube, small condensing chambers provided in the connecting tube, heating means provided in the arc-striking tube.

1,400,347. FEED-WATER HEATER, CONDENSER, AND THE LIKE. HOWARD C. DAVIS, Elizabeth, N. J., assignor to American Marine Equipment Corporation, a Corporation of Delaware. Filed Mar. 5, 1920. Serial No. 363,280. 6 Claims. (Cl. 257—200.)



6. In an apparatus of the character described, a casing provided with a plurality of conduits on opposite sides thereof, means adapted to supply a fluid to one of said conduits and means adapted to remove the fluid from another of said conduits, a plurality of coil units disposed within said casing, certain of said units connecting the conduit to which the fluid is adapted to be supplied with another of said conduits, and certain of said units connecting the last mentioned conduit with the conduit from which the fluid is to be removed, pistons disposed between the coil units, and means for supplying another fluid to the interior of the casing at one portion thereof and for removing it therefrom at another portion.

1,400,348. COIN-CONTROLLED LIQUID-DISPENSING APPARATUS. FRANCESCO DONZEL, Bell Center, Wis. Filed July 29, 1919. Serial No. 314,023. 18 Claims. (Cl. 194—30.)



1. A coin controlled vending mechanism for determining the throw of a liquid dispensing pump, having a governor member movable with and proportionately to the throw of the pump and provided with trip elements, a coin advancing plunger having a limited forward move-

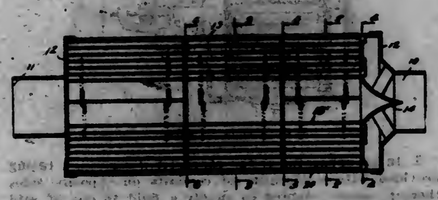
ment, a coin releasing trip member actuable by said trip elements, and a coin actuated resting device for disposing said trip member in the path of one of said trip elements.

1,400,349. TRAILER. Leander A. Dow, Seattle, Wash., assignor to Pacific Car & Foundry Co., Seattle, Wash., a Corporation of Washington. Filed Sept. 22, 1920. Serial No. 411,891. 6 Claims. (Cl. 280—33.)



1. In a trailer, in combination, an axle, two triangular frames supported by an apex upon the axle, bunks connecting said frames, a draft member connected centrally with the axle and a brace extending from said draft member to one of the bunks, and a reach having a swiveling connection with said draft member.

1,400,350. MUFFLER. Howard C. Emmons and Eugene E. Emmons, Syracuse, N. Y. Filed Mar. 29, 1920. Serial No. 369,732. 1 Claim. (Cl. 137—160.)



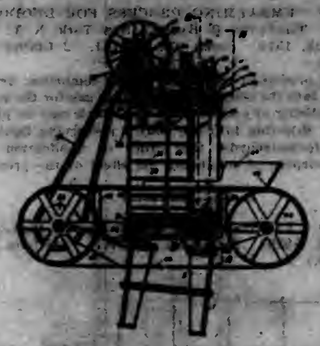
A muffler, including a body portion, inlet and exhaust pipes connected to said body portion, a plate positioned adjacent the inlet end of the muffler, and provided with a centrally disposed cone shaped projection extending toward and in alinement with the inlet pipe, and adapted to deflect gases radially outward, said plate being formed with radially disposed curved slots, and vanes attached to said plate adjacent each of said slots for imparting a whirling motion to fluid passing through said slots.

1,400,351. TWO-WHEELED TRAILER. Frank T. Falco, Seattle, Wash., assignor to Pacific Car & Foundry Co., Seattle, Wash., a Corporation of Washington. Filed Mar. 31, 1919. Serial No. 286,516. 3 Claims. (Cl. 288—33.1.)



1. A truck and trailer combination comprising a truck having a draft block spring mounted upon the chassis to have fore and aft movement, a king pin carried, by and depending from below said draft block, a horizontal draft pin carried by the lower end of the king pin, a trailer having a rigid tongue adapted to pass under the truck chassis and of a length equal to half the gage of the truck wheels and provided with ears adapted to engage with said draft pin.

1,400,352. CHERRY-STEMMER. Clarence E. Foote, Oakland, Calif., assignor of one-half to Arthur U. Hanson, Oakland, Calif. Filed Aug. 9, 1921. Serial No. 490,597. 5 Claims. (Cl. 146—3.)

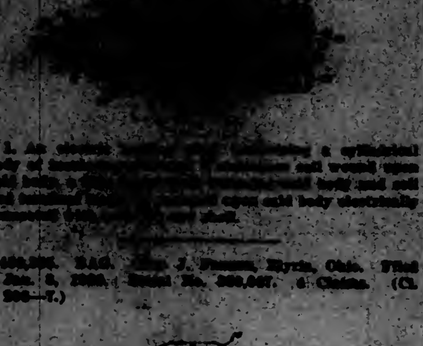


1. A cherry stemmer including a rotatably mounted cylinder for receiving the fruit and for supporting the same during the stemming thereof and having its surface formed with a plurality of slots too small for the passage of the cherry while permitting the projection through them of the stems, pairs of intergeared rollers mounted exteriorly of the cylinder adjacent to the slots, means for rotating the cylinder, means for continually rotating the pairs of rollers during the rotation of the cylinder whereby the same grip the stems projecting through the slots and pull the same from the cherries.

1,400,353. AUTOMOBILE-RADIATOR. Joe Fradus, Newark, N. J., assignor to Samuel Schniper, New York, N. Y. Filed Nov. 25, 1919. Serial No. 340,553. 2 Claims. (Cl. 257—130.)

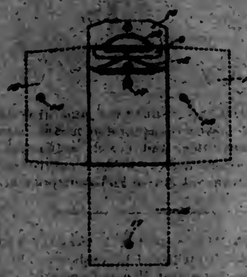


1. A radiator comprising a plurality of rows of tubes formed from sheets of metal, said sheets being corrugated to provide a series of parallel inclined faces and another series of parallel inclined faces alternating with said first mentioned series and running at an angle thereto, the widths of one of said series of parallel faces being substantially greater than the widths of the other alternate series of parallel faces so as to form substantially trapezoidal air openings when said sheets are placed together, said sheets being indented at the upper and lower ends thereof to form offset portions whereby two such complementary sheets unite at their lower and upper ends to form a close fit and inclose between the faces thereof a tortuous channel for the liquid to be cooled.



1. A [illegible] comprising a cylindrical body of [illegible] and wound upon said body, [illegible] upon said body electrically connected with [illegible] and shaft.

1,400,354. BAG. [illegible] J. Powers, Hyrtle, Ohio. Filed Jan. 5, 1920. Serial No. 350,047. 6 Claims. (Cl. 206—7.)



1. A bag having a closure flap provided with spaced openings intermediate of its ends and in the said flap, an inverted V-shaped stiff strip arranged beneath the flap and having at the junction of its members openings registering with the openings of the flap, and a cord secured in the apexture of the stiff strip and passed through the openings of the flap to form a handle.

1,400,356. TEST-GLASS FOR HEMOGLOBINOMETERS. Karl Fuchs, Asbury, N. J. Filed June 6, 1920. Serial No. 387,389. 3 Claims. (Cl. 88—14.)



1. As a new article of manufacture, a test glass for hemoglobinometers of the character described consisting of two prisms formed from one piece of ruby glass of wedge shape.

1,400,397. CABLE SECURING DEVICE PARTICULARLY APPLICABLE TO THE FIXATION OF ELECTRIC CABLES ON CARBON-BRUSHES. Rodrigo Guinea, Lavallois-Perret, Seine, Assignor to Societe Anonyme La Carbone, Lavallois-Perret, Seine, France. Filed May 14, 1921. Serial No. 469,748. 1 Claim. (Cl. 171—328.)

A cable securing device particularly applicable to the fixation of electric cables on carbon brushes comprising:



and adapted to receive the [illegible] the said head and [illegible] head in such a manner that [illegible] of the latter, acting on the [illegible] upward out and under in the [illegible] the cable is to be secured.

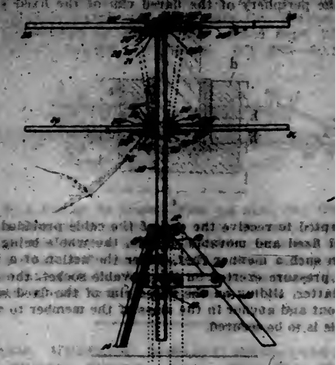
1,400,398. ANTI-SKID DEVICE. William J. [illegible] man, New York, N. Y. Filed June 27, 1921. Serial No. 487,168. 2 Claims. (Cl. 301—41.)



1. An anti-skid device embodying [illegible] adapted to be permanently connected with a wheel felly, upper and lower alined bearings thereon positioned at one side of the felly, a reciprocatory plunger mounted in said bearings, a spring seat carried by said plunger adjacent the lower of said bearings, a spring coiled about said plunger and acting against the upper of said bearings and said spring seat, whereby a directly vertical thrust is directed upon said plunger by said spring, a member adjustably mounted upon said plunger and adapted to engage one of said bearings, whereby the extent of movement of said plunger by said spring may be regulated, a slide mounted upon said bracket and adapted to be engaged by said member, and a cam rotatably mounted in said bracket and cooperating with said slide, whereby said plunger may be raised to, and maintained in, a position where it will not engage the road.

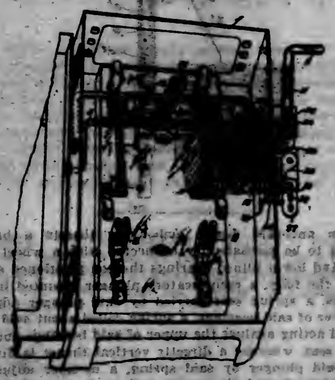
1,400,399. CLOTHES-DRIER. Charles W. Hagenman, Champaign, Ill. Filed May 2, 1918. Serial No. 232,026. 2 Claims. (Cl. 68—24.)

1. In a clothes drier the combination with a vertical standard of a clothes bar head mounted on said standard, the said head comprising a metallic disk provided with an



ing a plurality of radial slots in the body portion of the said head and extending thence outwardly and downwardly into the said peripheral depending flange thereon, and clothes bars loosely supported in the said radial slots of the head and bearing against said central depending flange.

1,400,360. QUICK-BREAK DOUBLE-THROW SWITCH. Bayson D. Hoxton, Detroit, Mich. Filed June 17, 1918. Serial No. 240,231. 15 Claims. (Cl. 200—73.)



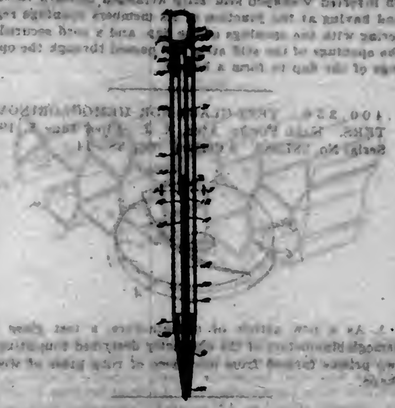
1. A quick break double throw switch comprising stationary and movable contacts, an operating member, resilient means connecting said operating member and movable contacts, and means for intermittently positively connecting said operating member and movable contacts, comprising an individually adjustable member for each throw.

1,400,361. TRANSMISSION MECHANISM FOR MACHINE-TOOLS. Howard W. Hoyt, Cincinnati, Ohio, assignor to The G. A. Gray Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 6, 1919. Serial No. 335,977. 26 Claims. (Cl. 90—58.)

2. In a machine tool, a traversing tool supporting member, a tool holder translatable upon said tool supporting

shafts for respectively connecting and disconnecting the same with said power transmission means, means for actuating said controller, and clutch actuating means for each clutch coöperating with said controlled actuating means for simultaneous clutch and controller actuation.

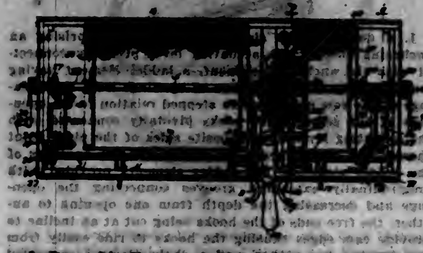
1,400,362. PENCIL. Charles R. Keeran and Michael M. Kaufmann, Chicago, Ill., assignors, by mesne assignments, to Autopoint Pencil Company, Chicago, Ill., a Corporation of Illinois. Filed June 9, 1919. Serial No. 302,737. 3 Claims. (Cl. 120—28.)



1. A pencil having within its body lead propelling mechanism, and exteriorly of its body a rotatable actuating means thereon including a collar and sleeve arranged end to end, the former stationary and the latter rotatable with respect to the body, the adjacent ends of the collar and sleeve being formed with transverse walls each having a central aperture, one such wall being flanged to lie within the aperture of the other, and having its inner periphery polygonal in character, and a tube extending

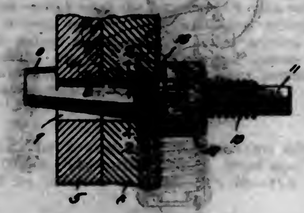
through the outermost wall having the polygon aperture therein, the tube being extended within the pencil to maintain operative relation with the propelling mechanism, substantially as described.

1,400,363. COMPUTING-MACHINE. Millard B. Kennard and Virgil C. Sampson, Corpus, S. D. Filed Sept. 23, 1920. Serial No. 412,782. 8 Claims. (Cl. 235—60.)



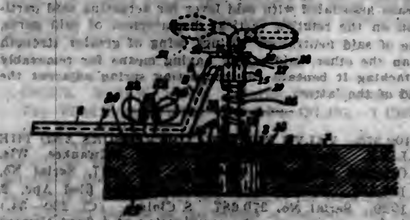
1. In combination, a spiral scale, an indicator therefor, a coöperating spiral scale, an indicator therefor, means to adjust each indicator independently to any desired point on its scale, and means to cause corresponding relative movement between the two scales and their respective indicators.

1,400,364. TOE-BOLT. Frank C. Knapik, Baltimore, Md. Filed Jan. 20, 1920. Serial No. 352,860. 1 Claim. (Cl. 85—9.)



A bolt comprising a shank and a head on one end thereof, said head projecting from one side of the shank only and its width not exceeding the diameter of the shank, the shank being inclined to its longitudinal axis on one side to obtain a taper in the direction of the head, and said head projecting from that side of the shank which is diametrically opposite the inclined side.

1,400,365. VALVE-GRINDING DEVICE. Clarence C. Lott, New York, N. Y. Filed Dec. 20, 1920. Serial No. 432,710. 2 Claims. (Cl. 51—68.)

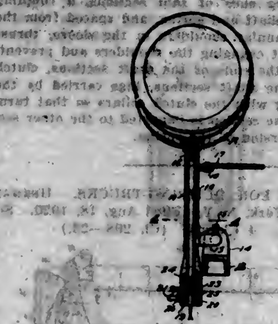


1. In a valve grinding device of the character described, the combination with a bracket having a bearing

shaft journaled in said bearings, resilient means for preventing one end of the shaft into engagement with a valve, and a projection on the shaft to engage the upper end of the bearing for limiting the movement of the shaft under the influence of the resilient means, said projection being adapted to move on said bearing as the shaft is rotated during the grinding operation and a fixed cam on said bracket over which the projection is engaged by said projection during a part of its revolution for disengaging

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1,400,366. HEADLIGHT. Harold Richard Lott, Toledo, Ohio. Filed Jan. 6, 1920. Serial No. 349,764. 1 Claim. (Cl. 240—61.)



A post for headlights, including a tubular body having an enlarged lower end formed with a counter-bore, an inner element extending through and turnable in said body and adapted to support a lamp bracket, a collar on said inner element at the lower end presenting a post fitting said counter-bore, a torsion spring surrounding said inner element in said counter-bore and connected at its ends respectively with said body and said collar, an arm on said collar adapted to be connected with operating means, and a stop on said body to limit the turning of said arm.

1,400,367. FURNACE AND METHOD OF CONVEYING MATERIALS THERETHROUGH. Harry P. McCann, Lakewood, Ohio. Filed Sept. 10, 1919. Serial No. 323,038. 17 Claims. (Cl. 263—6.)



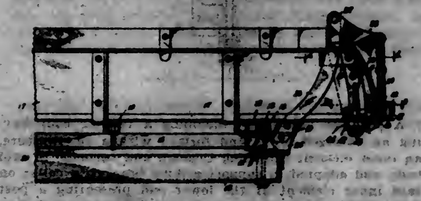
1. In a furnace heated by gases of combustion, a heating chamber having a hearth having a longitudinal slot therein, and a work-moving member dispersed in said slot, said slot being wider than said work-moving member forming clearance spaces between said work-moving member and the walls of said slot, and a flue in said hearth connected to said slot for conducting the waste gases of combustion away from it.

1,400,368. SHOCK-ABSORBING TYPE CONSTRUCTION. [illegible] Nov. 2, 1920. Serial No. [illegible] 9 Claims. (Cl. 64—66.)



4. A device of the character stated, comprising a shaft formed in two sections, said sections capable of limited independent turning movement, a coiled torsion spring around the meeting ends of said sections, a coupling sleeve around the shaft and spring, and spaced from the spring, internal annular shoulders in the sleeve, thrust collars on the shaft engaging the shoulders and preventing separation of the ends of the shaft sections, clutch collars keyed to the shaft sections, lugs carried by the sleeve and coacting with the clutch collars so that turning movement of one section is imparted to the other section against the torsion of the spring.

1,400,369. GATE FOR DUMPING-TRUCKS. HERMAN MECKING, New York, N. Y. Filed Aug. 18, 1920. Serial No. 404,400. 4 Claims. (Cl. 298—23.)



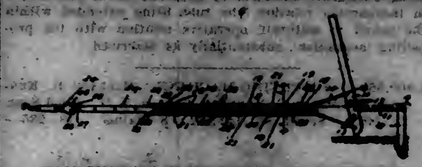
1. A dumping truck, comprising a truck frame, a bracket attached to the said truck frame, a body mounted to swing on the said bracket and having a discharge opening, a gate hung at its upper end on the said bracket and normally closing the said discharge opening, trunnions rotatably journaled on the sides of the said gate at the lower free end thereof, and hooks adapted to be engaged by the said friction rollers to lock the gate in closed position, the said hooks being fixed on the said body on opposite sides of the said dumping opening.

1,400,370. HAIR-WAVING APPARATUS. CHARLES NESSLER, New York, N. Y., assignor to Nestle Patent Holding Co. Inc., New York, N. Y., a Corporation of New York. Filed Apr. 16, 1918. Serial No. 228,671. 23 Claims. (Cl. 132—35.)



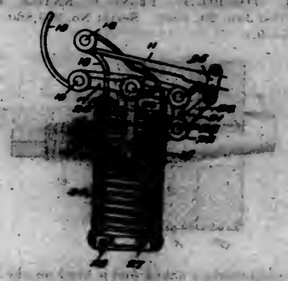
1. A hair waving apparatus comprising a plurality of hair-engaging devices, jointed elements operatively connected with said devices and said connecting means being constructed and arranged to permit the placing of said hair-engaging devices in the hair in laterally spaced apart relation and said connecting means being operable to permit said devices to be individually moved endwise.

1,400,371. TRANSMISSION AND PURLING DEVICE. [illegible] Nov. 4, 1919. Serial No. [illegible] 7 Claims. (Cl. 66—82.)



1. A device of the character described comprising an anchoring element, an actuating lever pivotally connected with the anchoring element, a ladder element having longitudinally [illegible] of openings with the openings of one row [illegible] in staggered relation to the openings of the second row, hooks pivotally connected with the detenting lever upon opposite sides of the pivot point thereof and [illegible] hooks, the openings of the ladder elements, said ladder elements provided with longitudinally extending grooves connecting the openings and decreasing the depth from one opening to another, the free ends of the hooks being cut at an incline to provide cam edges causing the hooks to ride easily from one opening to another, and a chain element connected with the ladder element.

1,400,372. VEHICLE. RICHARD T. NEWTON, Nutley, N. J. Filed Nov. 4, 1914. Serial No. 870,315. 7 Claims. (Cl. 267—17.)



4. For use with a vehicle having a body part and a leaf spring associated with the running gear, said body part and spring being separated and apertured at their adjacent ends, a self-contained shock-eliminator attachment adapted to be interposed between said body and spring when separated, comprising a casing, means for securing the same to one of said parts at its apertured point, two oppositely acting neutralizer coil springs in the casing, a partition between the coil springs, a lever jointed to the other of said parts and to the casing, and means associated with said lever for actuating said partition on the relative vertical displacement of said parts, one of said neutralizer springs being of greater strength than the other, said casing having means for removably attaching it beneath the supporting spring adjacent the end of the latter.

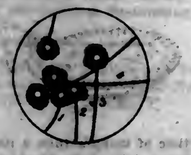
1,400,373. VALVE FOR AIR-COMPRESSORS AND THE LIKE. RALPH VOLNEY HUNTINGTON, Milwaukee, Wis. Original application filed Aug. 31, 1917, Serial No. 189,467. Divided and this application filed Apr. 2, 1920. Serial No. 370,687. 8 Claims. (Cl. 230—24.)

1. In a compressor, the combination of a fixed element having a cylindrical bore formed therein said bore being in communication with the compressor cylinder; a valve seating fitting within the bore, said seating having at least one annular channel therein with a valve port around said opening; a plate valve overlying the opening; a spring bearing against said plate; and means for holding said valve and spring in position.



6. In a compressor, the combination of a fixed element having a cylindrical bore formed therein and likewise having an intake or suction port; a combined suction and discharge port in communication with the compressor cylinder; and a discharge port, all of said ports opening into the cylindrical bore aforesaid; a cylindrical shaped valve structure composed of three parts, the central part being wedge shaped in cross section and all of said parts being provided with flow slots, the slots in the central wedge shaped part being in communication with the combined suction and discharge port; plate valves interposed between adjacent faces of said central member and the outer parts and resting upon the seats formed upon said central wedge shaped member; a bow shaped spring resting on each valve; and removable plates secured in place adjacent the ends of said valves and springs whereby the valves and springs will be properly positioned and held against displacement.

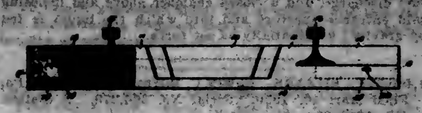
1,400,374. RICE FOR MANUFACTURING SOY. MANJIRO ONIKI, Fukuoka-Ken, Japan. Filed Apr. 18, 1918. Serial No. 229,339. 1 Claim. (Cl. 99—11.)



The process of preparing a food composition consisting in culturing aspergillus oulkli upon a grain medium, nourishing the same; adding thereto a mixture of steamed beans and roasted wheat; then forming the same into soy, separating the liquid from the residue, and subsequently sterilizing and clarifying the same.

1,400,375. RAILWAY-TIE. MARINO PACE, Homer City, Pa. Filed Sept. 1, 1921. Serial No. 497,491. 1 Claim. (Cl. 238—34.)

A railway tie comprising a body member having rail seats and an elevated intermediate portion with the terminals thereof overhanging the inner portion of the rail seats and adapted to bear against the webs and over the adjacent portion of the flanges of the rails, the outer portions of said body having longitudinally directed upwardly opening guideways with the inner ends extending into the outer portion of the rail seats, holding members engaging in said guideways and extending at their inner



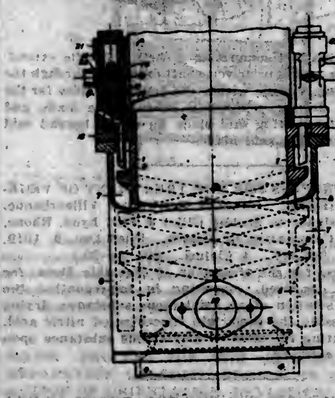
ends beneath the outer portion of the rail flanges and each with a seat to receive the same and bearing against the outer faces of the rail webs.

1,400,376. PULL-SWITCH. CHARLES A. REINHOLDT, Bridgeport, Conn., assignor to The Bryant Electric Company, Bridgport, Conn., a Corporation of Connecticut. Filed Apr. 7, 1917. Serial No. 160,475. 20 Claims. (Cl. 200—64.)



1. In an electric switch, a rotary switch bar, an insulating base having bosses forming detents, switch contacts arranged on said base and shaped to form detents spaced from said bosses, cams on said switch bar, and a rotary lifting cam member coöperating with said cams on the switch bar to lift the same over said detents.

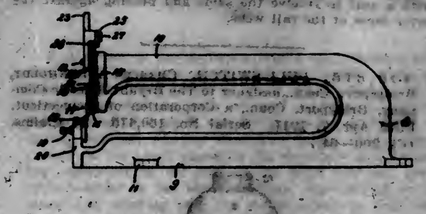
1,400,377. VAPORIZER. PERCY OCTAVIUS ROWLANDS, Liverpool, England. Filed Apr. 9, 1919. Serial No. 288,875. 6 Claims. (Cl. 48—102.)



4. In a liquid fuel vaporiser of the character described having a vaporizing conduit to which the liquid fuel is delivered adapted to have created within it a pressure less than that of the atmosphere by a pump or engine to be fed by the vapor produced; a liquid fuel supply conduit, a surplus liquid fuel discharge, the entrance aperture to

the liquid fuel supply normally being maintained above the discharge jets, and below the level of the vaporizer liquid fuel discharge, and a closed chamber above and inclosing said entrance aperture and into which the liquid is fed by gravity; substantially as set forth.

1,400,378. SHEARS. EDWIN C. ROTH, Philadelphia, Pa. Filed Mar. 16, 1920. Serial No. 366,270. 3 Claims. (Cl. 164—60.)



1. A shear including a head; a pinion rotatably secured to the end of said head; a cutting wheel connected directly in front of and to the pinion; a gear wheel in mesh with said pinion and rotatably in the plane of said pinion and supported by said end of the head; a swinging hand lever positioned in front of said end of the head; and a pawl carried by said hand lever and having a portion adapted to mesh with the teeth of said gear wheel during the movement of the hand lever in one direction to effect rotation of said gear wheel, said pawl having a portion adapted to effect an operative disengagement with said gear wheel during a movement of the hand lever in an opposite direction; substantially as described.

1,400,379. MOTOR-DRIVEN ANIMAL-SKINNING KNIFE. HERMAN H. SCHLEICHER, Milwaukee, Wis. Filed Apr. 15, 1921. Serial No. 461,718. 3 Claims. (Cl. 17—13.)



2. A skinning tool comprising a shell, a handle extending therefrom, a motor driven shaft extending through the shell, a housing, a blade within the housing, guides for the blade and a driving connection between the blade and motor shaft for moving said blade forwardly beyond said shell and retracting said blade.

1,400,380. PROCESS FOR THE TREATMENT OF VEGETABLE FIBERS. CHARLES SCHWALBE, Villeurbanne, France, assignor to Société Gillet & Fils, Lyon, Rhone, France, a Corporation of France. Filed Dec. 9, 1919. Serial No. 344,577. 4 Claims. (Cl. 8—20.)

3. A process for the treatment of vegetable fibers, for the purpose described, consisting in impregnating the fiber with a solution of an amylaceous substance, drying the fiber, passing the same into concentrated nitric acid, and precipitating the nitrated amylaceous substance upon the fiber by washing.

1,400,381. PROCESS FOR THE TREATMENT OF VEGETABLE FIBERS. CHARLES SCHWALBE, Villeurbanne, France, assignor to Société Gillet & Fils, Lyon, Rhone, France, a Corporation of France. Filed Dec. 9, 1919. Serial No. 345,578. 4 Claims. (Cl. 8—20.)

A process for the treatment of vegetable fibers, with a view to imparting to them the character of wool, both

preparatory or in the course of combing and spinning, or carding and spinning, or spinning alone, and likewise subsequently, said process consisting in acting upon the fiber previous to spinning under the hydrolysis of proteic substances by the action of strong mineral acids thereon.

1,400,382. FOLDING DRAWING-KNIFE. CHARLES BERTRAND SIMMONS, Bristol, Conn., assignor to Israel S. Bailey, Southington, Conn. Filed June 27, 1921. Serial No. 480,724. 3 Claims. (Cl. 145—26.)



3. In combination in a drawing knife, a blade having at each end a plate-like head and a blade shank intermediate said head and the blade body, a handle structure comprising a handle body and a handle shank structure, said handle shank structure being composed of two similar pieces of sheet metal positioned in opposition one to the other, said pieces having the outer ends connected with the handle body, the inner ends of said pieces being in the form of ears that are positioned in spaced relation to receive therebetween said head, said ears having notches in the peripheral edges, and a leaf spring secured by one end to said blade shank, extended over said head, and provided at each side edge with a laterally extending catch lug for engaging with said notches, whereby the latch operates to simultaneously make locking engagement individually with the two sheet metal pieces of the handle structure.

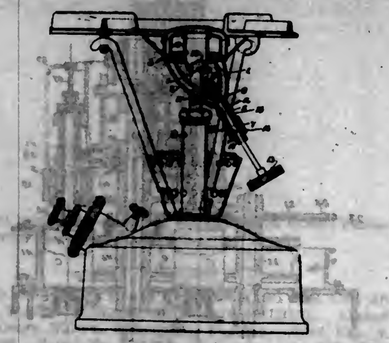
1,400,383. PIE CRIMPER AND CUTTER. ROBERT H. F. SPAGEN, Madisonville, Ohio. Filed Apr. 18, 1921. Serial No. 462,296. 3 Claims. (Cl. 107—40.)



1. As an article of manufacture, a pie crimper comprising a base having a right angle extension provided with an arcuate cutting edge, a socket on the base for the reception of a handle, and an arcuate shaped pie crimping surface secured to the under face of the base conforming to the arcuate cutting edge of the extension and offset a short distance therefrom, whereby the pie crust may be crimped and the superfluous dough removed from around the edge of the pie plate as the crimper is moved step by step around the edge of the pie.

1,400,384. VAPOR-STOVE. RICHARD HENRY STRETTON, Birmingham, England, assignor of one-half to Kynoch Limited, Birmingham, England. Filed June 21, 1920. Serial No. 390,565. 6 Claims. (Cl. 158—32.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

3. In oil and spirit vapor stoves, the combination with a vaporizer having two tubes extending downwardly and terminating vapor tubes arranged between and at right angles to the two fuel tubes, an inclined tubular body closed between and terminating said lower ends of the vapor tubes said lower ends being situated outside the plane of the fuel tubes, a vapor jet carried by the upper end of the tubular body and being similarly inclined, a burner, a filling tube carried by the vaporizer having its lower end inclined similarly to the tubular body, a stem contained within the tubular body, a needle valve carried by the stem and adapted to enter the bore of the vapor jet, and means for propelling and repelling the stem.



1,400,385. ADJUSTABLE WAGON-SKEIN. PAUL SCHWARZ, Manville, Wyo. Filed Mar. 28, 1921. Serial No. 456,235. 7 Claims. (Cl. 301—135.)



1. In an adjustable wagon skein, a body adapted to be attached to the axle tree, a frame carried by said axle tree, and means for increasing or diminishing the diameter of said frame.

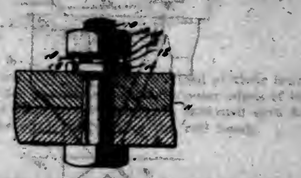
1,400,386. MUSICAL TOY. EMANUEL STAGEL, Baltimore, Md. Filed Mar. 17, 1921. Serial No. 452,970. 4 Claims. (Cl. 46—46.)



1. A musical toy having a rotary carrier, a knocker or tongue loosely suspended from the carrier and a series of

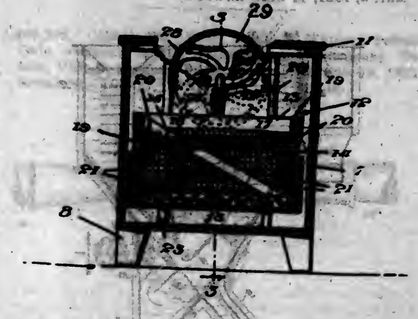
sounding or resetting elements arranged in the path of movement of said knocker or tongue, the outside substantially semicircular upper wall of each of said sounding elements being inclined, in a ball-shaped housing of reticulated material.

1,400,387. NUT-LOCK. ARTHUR H. DIXON, Cadillac, Mich. Filed Oct. 4, 1919. Serial No. 328,505. 2 Claims. (Cl. 151—19.)



1. A nut lock including a bolt and a nut, a pair of washers engaged on the bolt, one of the washers having diametrically opposite pairs of recesses in the wall of its opening, the other washer being engaged by the nut and having tongues engaged in one pair of said recesses, the outer end wall of each of the said other recesses being inclined longitudinally of the axis of the central opening of the washer, the sides of the last-named washer being arranged to be bent outwardly of the nut, and a wedge key in each of the second pair of recesses and having a longitudinal knife edge on its exposed face, said wedge key having its inclined face slidably engaged with the outer wall of the recess and movable by compression between the first washer and nut to dispose the knife edge in biting engagement with and transversely of the threads of the nut.

1,400,388. WASHING-MACHINE. LAWSON J. RUSSEY, Pittsburg, Kans. Filed May 17, 1921. Serial No. 470,273. 2 Claims. (Cl. 68—37.)



1. A washing machine comprising a tub, and a clothes basket mounted for reciprocation in said tub and having a set of transversely-inclined slats for deflecting the water during the reciprocation of the basket for agitating the water and clothes within the basket.

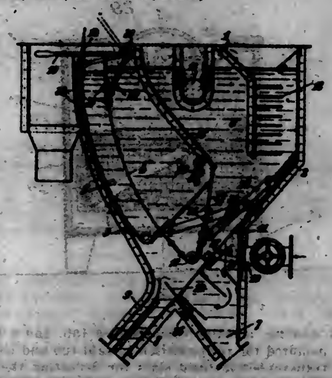
1,400,389. PROCESS FOR THE CLASSIFYING AND SEPARATION OF SOLID BODIES BY COMBINED ACTION OF ORIENTATION, DEVIATION, AND DERIVATION. ERNEST EMILE TROMBE, Puteaux, France. Filed Nov. 21, 1917. Serial No. 203,237. 1 Claim. (Cl. 83—62.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

A process of the character described which includes the following steps: first, supplying the material into a substantially still classifying medium; second, obstructing the

downward movement of the material by an inclined surface; third, subjecting the material as it passes off the said surface to the action of an upwardly moving current traveling at an angle to the said surface whereby the position in which particles of a certain shape are presented to the upwardly moving current is altered; fourth, providing a downwardly extending outlet for the material which is able to pass through the upwardly moving current without being deviated thereby; fifth, providing an upwardly extending outlet for the material which is freely carried along by the upwardly moving current; and sixth, providing an auxiliary downwardly extending outlet for the material which is unable to pass through the upwardly moving current when presented in one position to the said current but is able to pass therethrough when presented in another position to said current.

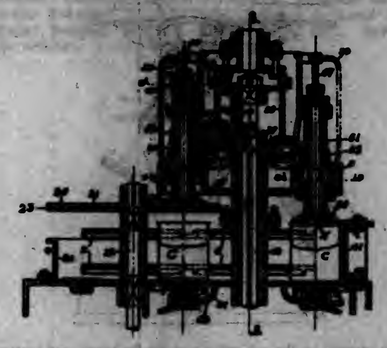


1,400,390. APPARATUS FOR THE CLASSIFYING AND SEPARATION OF SOLID BODIES BY COMBINED ACTION OF ORIENTATION, DEVIATION, AND DERIVATION. René Emile Trotteur, Puteaux, France. Filed Nov. 21, 1917. Serial No. 208,278. 5 Claims. (Cl. 83—82.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



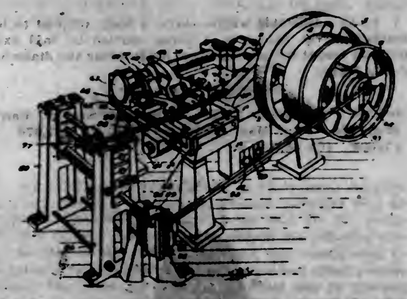
1. Apparatus of the character described comprising, a vessel, means for supplying a classifying medium to the upper part thereof, means for depositing in the medium material to be classified, a downwardly extending surface adapted to interrupt the downward movement of the material, a partition arranged adjacent the side of the vessel opposite said surface for forming a channel between said partition and said side of the vessel, a downwardly extending outlet from said vessel, a downwardly extending outlet from said channel, an outlet at the top of said channel, and means for supplying a classifying medium to the lower portion of the vessel to ascend in said channel, whereby the material is classified and different parts thereof ejected from said various outlets.

1,400,391. CAN HEADING AND SEALING MACHINE. Hudson Bowne, Seattle, Wash., assignor to Seattle-Astoria Iron Works, Seattle, Wash., a Corporation of Washington. Filed Oct. 22, 1919. Serial No. 332,210. 5 Claims. (Cl. 113—14.)



1. In a can heading mechanism, in combination, a continuously rotative can feeding mechanism, a cap feeding mechanism synchronously rotated with said can feeding mechanism and carrying the caps in positions alined with and above the open ends of the cans, a second can receiving and feeding mechanism rotated synchronously with and receiving the cans from the first named can feeding mechanism, cap carriers similarly rotated and means for operating said cap carriers to first supportingly engage the caps carried by the cap feeding mechanism, carry said caps to the can placing position and then place the caps upon the cans.

1,400,392. SPIKE-MAKING MACHINE. Isaiah C. Van Fossen, Pueblo, Colo., assignor of one-half to Harry A. Deuel, Pueblo, Colo. Filed June 12, 1919. Serial No. 303,616. 7 Claims. (Cl. 10—57.)

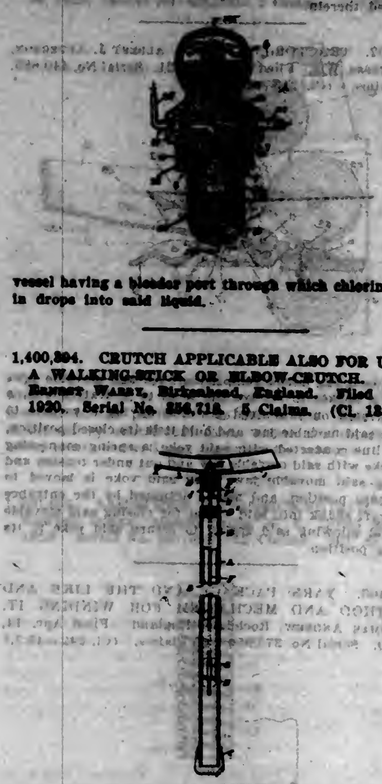


1. In a spike making machine, a gripping lever, a heading lever, a pointing lever, a kicking bar lever, and separate cam devices for actuating said respective levers.

1,400,393. APPARATUS FOR CHLORIN CONTROL. James W. Van Meter, San Francisco, Calif. Filed Apr. 11, 1921. Serial No. 460,522. 5 Claims. (Cl. 210—28.)

1. An apparatus for chlorin control, comprising a chamber adapted to contain a liquid, a transparent vessel below said chamber and adapted to be fed with liquid therefrom,

a receiving vessel within said transparent vessel, means for supplying chlorin to said latter vessel, said latter vessel having a bleeder port through which chlorin exudes in drops into said liquid.



1,400,394. CRUTCH APPLICABLE ALSO FOR USE AS A WALKING-STICK OR ELBOW-CRUTCH. Albert Ernest Warry, Birkenhead, England. Filed Feb. 6, 1920. Serial No. 356,718. 5 Claims. (Cl. 135—50.)

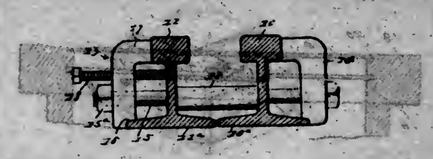
5. A crutch comprising in combination tubular lengths adapted to telescope, a head member turnable independently of the tube lengths, a locking device for locking the telescoping sections together by turning the head member a laterally projecting tubular part on the said head member, a telescopic extension on the said tubular part, a longitudinal slot in the said telescopic extension, and a rod forming part of the locking device the upper end of which rod passes through the said slot and has a nut or head at the top for keeping the extension of the tubular head extended or contracted when the tubular lengths of the crutch are locked together by the locking device.

1,400,395. COMPOSITION OF MATTER. Marcel Weinberg, Brooklyn, N. Y. Filed May 18, 1921. Serial No. 470,655. 5 Claims. (Cl. 134—39.)

3. A composition of matter for preventing the formation of rust, which comprises ordinary soap, sodium carbonate, glycerin, and formaldehyde.

1,400,396. TRACK-CLAMP. Jack Whitaker, Fort Dodge, Iowa. Filed Sept. 8, 1921. Serial No. 499,218. 1 Claim. (Cl. 238—21.)

A track clamp for securing track and guard rails in their proper relative positions, having a spacing sleeve interposed between the webs of said rails, jaws having upwardly projecting inner ends adapted to engage the inner edges of the rail heads, said jaws having vertical bearings upon the head and foot or base members respectively of said rails, and a bolt transversely connecting the jaws and extending through the rail webs and said spacing sleeve, the jaws being provided at their lower ends with seats for engagement with the outer edges of the rail feet and at their upper ends with inturned ears for contact with the outer surfaces of the rail heads.



1,400,397. SHUTTLE TENSION. Gottlieb D. Wilms and John H. Strecks, Paterson, N. J. Filed Sept. 2, 1921. Serial No. 496,855. 2 Claims. (Cl. 139—37.)



1. In combination, a supporting structure including the shuttle body, a spindle supported at it send portions in said structure, a plate movable longitudinally of and in said structure and arranged in a plane crossing the axis of the spindle and adapted to bear against one end of a package arranged on the spindle, said spindle being removable from said structure transversely of itself and in a definite plane and the plate having a lateral notch opposite the spindle and registering with the plane in which the spindle is thus removable, and spring means for holding the plate against the package.

1,400,398. CHAIN WRENCH. Clyde S. Wright, Toledo, Ohio, assignor to The National Supply Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 19, 1921. Serial No. 446,427. 8 Claims. (Cl. 81—66.)



5. In a wrench, a jaw having its gripping face provided with a toothed portion at both sides of its transverse center, an operating member loosely seated on the face of the jaw opposite the toothed face, and having a fulcrum on the first face between each toothed face and the said transverse center, and a flexible gripping member adapted to have its ends attached to the operating member and to grip an object in contact with the gripping face of the jaw.

1,400,399. CISTERN-TOP. Oscar H. Yaeche, Aurora, Ill. Filed Mar. 22, 1921. Serial No. 454,538. 2 Claims. (Cl. 94—35.)

1. A manhole or cistern cover having a plurality of bolts for extension beyond the periphery of the cover to engage sockets in the wall of the manhole, a lever

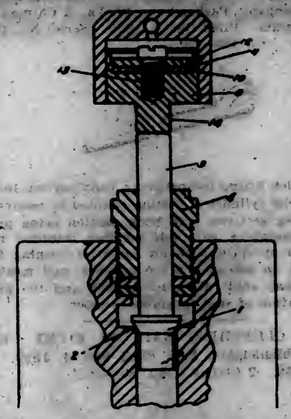
having connection with said locking ring or handle, and a lever having an operating ring or handle, and a bar adapted to engage said bolts for actuating the same, said

consequent upon decrease and increase of temperature, and the compensating resistance being composed of a wire-metal which is variable in consequence of decrease and increase of temperature to maintain, throughout a



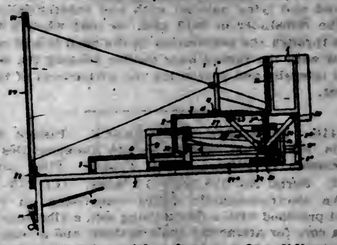
given temperature range, a substantially constant ratio between the amount of the ohmic resistance of the magnetising coil and the amount of the ohmic resistance of the compensating resistance.

1,400,411. FLUID-VALVE. Howard Pearson Booth, Montreal, Quebec, Canada. Filed Mar. 29, 1919. Serial No. 286,187. 1 Claim. (Cl. 138—16.)



In fluid valves, a casing forming a terminal in a compressed air line of piping and communicating constantly with recesses in one wall forming plunger chambers, plungers operating in said chambers and having stems in continuous engagement with the stems of valves governing the operation of the hydraulic press.

1,400,412. COPYING AND ENLARGING CAMERA. Burt A. Baigger, East Cleveland, Ohio, assignor of one-half to Fred R. Bill, Cleveland, Ohio. Filed Dec. 13, 1920. Serial No. 430,294. 8 Claims. (Cl. 88—24.)



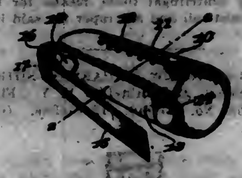
1. The combination with a frame, and a sliding camera and lens carrier mounted thereon, of a cam on the frame, and a toggle one arm of which is connected to the camera, and the other to the lens carrier, the joint of the toggle arms being provided with means to cause the same to follow the cam.

1,400,413. MEAT-[illegible]. Jesse R. Burgess, Independence, Kans. Filed Nov. 12, 1921. Serial No. 514,508. 4 Claims. (Cl. 17—37.)



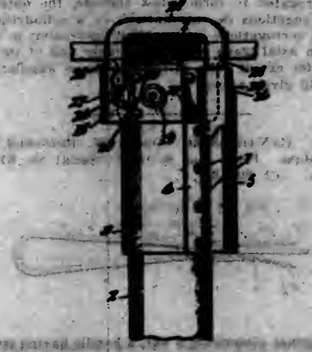
4. In a meat tenderizer, the combination with a knife body having an enlarged head portion and a handle, of removable knives having openings therein for securing the said knives to the face of the knife body, a cleaner bar positioned between the knives and supported in the ends of the body, and an adjustable flat spring removed from the cutting edges of the knives, said spring being secured to and overlying the top of the body bearing against the ends of the cleaner bar.

1,400,414. ONION-WEEDER. Charles Butler, Independence, Kans. Filed Oct. 10, 1921. Serial No. 506,677. 1 Claim. (Cl. 55—45.)



An onion weeder comprising a thumb stall, and a strip of metal bent intermediate its length to form a pair of divergent arms of approximately equal length connected by a curved bight portion, one of the arms being secured to the stall and extending longitudinally toward the open end thereof, the other arm and the bight portion having lower continuous cutting edges.

1,400,415. AUTOMOBILE-LOCK. Charles Fredrick Callahan, Memphis, Tenn. Filed Feb. 9, 1920. Serial No. 357,435. 2 Claims. (Cl. 70—139.)



2. In combination with a steering column and a wheel carried thereby, of a device for locking said wheel including a sheet metal frame bent to provide a cylindrical body portion embracing the steering column, radial arms formed

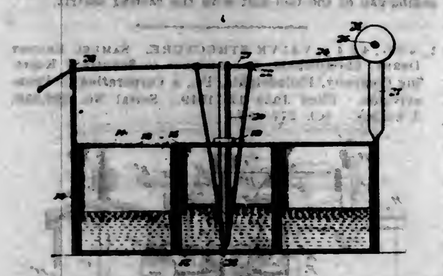
in one piece with the body and extending therefrom, the body being split at one side and having its ends spaced apart, a V-shaped part fitted between the split portion of said body and connected to the ends thereof for contracting the body about said part, a housing carried by said arms, a shackle member fitted in said housing and slidable and rotatable therein, a striker coming upward from said housing and adapted to receive one portion of said shackle member, and locking means for holding the shackle member in the striker coming, substantially as described.

1,400,416. STAMPING-DIES. Lloyd R. Cameron, Somerville, Mass., assignor to Alfred F. Murphy, Boston, Mass. Filed May 16, 1919. Serial No. 297,645. 2 Claims. (Cl. 113—49.)



1. A self-contained die unit adapted for removable assemblage in a stamping press, comprising a pair of oblong die blocks having mating faces bearing the die impression to be produced and adapted to be opened to permit insertion of work therebetween from one end to a point adjacent the opposite end, said blocks equipped with spring means to hold them normally apart, and with means for holding them aligned with respect to each other located at, and limited to, the end portions thereof opposite the end from which the work is inserted.

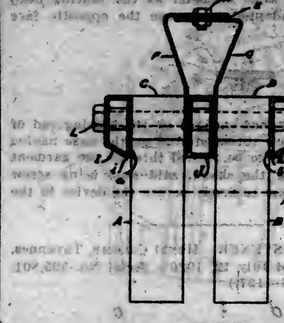
1,400,417. DYEING-MACHINE. Frederick Carter, St. Agathe des Monts, Quebec, Canada. Filed Feb. 28, 1921. Serial No. 447,382. 5 Claims. (Cl. 8—19.)



1. A dyeing machine comprising a receptacle, a T-shaped member supported above and extending into the receptacle and guides positioned at each end of the T-shaped member, whereby the material to be dyed may be guided through said receptacle.

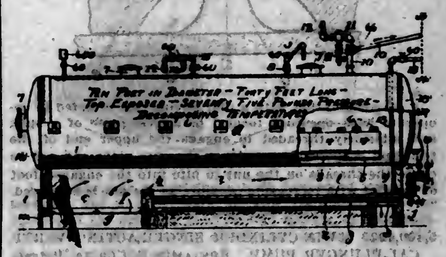
1,400,418. ELECTRODE-HOLDER. Herman August Carey, Duluth, Minn. Filed June 25, 1920. Serial No. 391,672. 8 Claims. (Cl. 204—64.)

1. In a mechanism of the kind described, a heat insulating block, an electrode and means for holding the heat insulating block and the electrode removably in position such means being adapted to release the electrode upon



loosening without releasing the other parts of the mechanism.

1,400,419. OBTAINING MOTOR-SPIRIT AND BURNING-OIL FROM HIGHER-BOILING PETROLEUM. Horace P. Chamberlain, Buffalo, N. Y., assignor to Standard Oil Company of New York, New York, N. Y., a Corporation of New York. Filed Aug. 17, 1916. Serial No. 115,612. 18 Claims. (Cl. 196—35.)

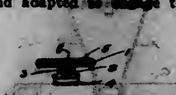


1. In the art of obtaining products from petroleum, wherein hydrocarbons boiling above 518° F. are collected in admixture with those boiling below 518° F., in the form of burning oil (kerosene) distillate from distilling crude pertoleum under relatively low pressure (as atmospheric pressure, for example), and are afterward separated from lighter components of said burning oil (kerosene) distillate, by partial distillation of this latter under relatively low pressure, and are yet later distilled at decomposing temperatures under superatmospheric pressure of more than thirty pounds per square inch, the improvement which consists in subjecting the residual oil from partially distilling said burning oil (kerosene) distillate to distillation under relatively low pressure, with collection of distillate that boils above 518° F., and in distilling this last mentioned distillate at decomposing temperatures under superatmospheric pressure of more than thirty pounds per square inch, substantially as described.

1,400,420. BUTTON. Walter Colley, Calgary, Alberta, Canada. Filed Feb. 21, 1920. Serial No. 360,280. 1 Claim. (Cl. 24—105.)

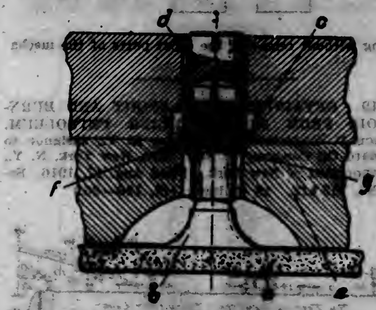
A button comprising a head, a cylindrical shank on said head having its end enlarged and of annular shape to provide a bearing face adapted to engage a garment, said shank being disposable in a button hole and maintained therein by said end and said head, said end serv-

ing to equate apart portions of a garment such being of a diameter greater than the diameter of the shank, said shank having a screw threaded bore, an annular base of substantially the same diameter as the bearing head of the shank and adapted to engage the opposite face



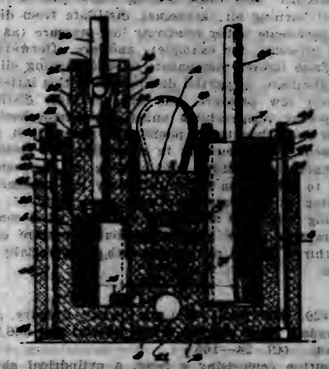
of the garment from that engaged by the bearing end of the shank, and a screw threaded stud on the base having a pointed end adapted to be pushed through the garment and into the bore of the shank, said stud being screw threaded into said bore to firmly secure the device to the garment.

1,400,421. DIAL-FASTENER. Henri Colomb, Tavannes, Switzerland. Filed July 12, 1920. Serial No. 395,801. 4 Claims. (Cl. 58—127.)



4. A combination with a dial having feet adapted to operate with openings formed in a base plate of a watch part interiorly threaded to engage the upper end of the feet, and coöperating means on the base plate and nut to cause the threads on the nut to bite into the engaged foot of the dial with increasing pressure as the nut is advanced.

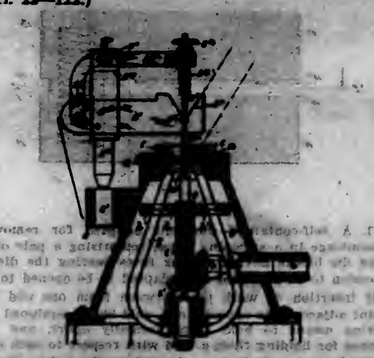
1,400,422. TWIN-CYLINDER SINGLE-ACTING VERTICAL-PLUNGER PUMP. Benjamin F. Curtis, Potean, Okla., assignor to Curtis Porcelain Pump Company, a Corporation of Oklahoma. Filed Sept. 3, 1920. Serial No. 407,946. 4 Claims. (Cl. 103—77.)



4. A pump comprising a body formed from a single block of vitreous material having inwardly extending spaced cylindrical bores formed therein in longitudinal alinement, the cylindrical bores terminating short of the

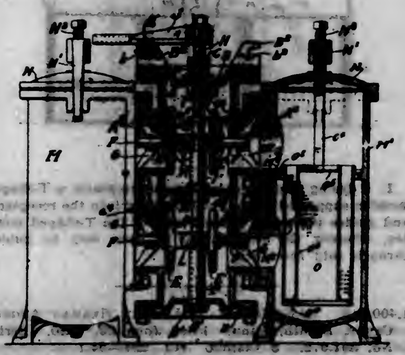
leave and of the block a pair of centrally disposed upper posed, transversely extending ways formed in the body intermediate the cylindrical bores, one of said ways being disposed adjacent to the upper ends of the cylindrical bores and constituting the discharge outlet, the other way being disposed adjacent to the lower ends of the bores and constituting the inlet, suitably long vitreous pistons reciprocably mounted in the cylindrical bores, discharge and inlet chambers communicating with each other and with the upper and lower ways, discharge and inlet valves arranged in said chambers, and inwardly extending ways communicating with the transversely extending ways and with the chambers.

1,400,423. APPARATUS FOR MAKING DOPS TO HOLD PRECIOUS STONES DURING GRINDING OR POLISHING. William J. Davids, Amsterdam, Netherlands. Filed Dec. 17, 1920. Serial No. 431,463. 5 Claims. (Cl. 23—122.)



1. Dop-casting apparatus consisting of a setting-tool unit which is formed with a gaging-gap whose shape is a replica or counterpart of the transverse sectional shape of the dop-casting matrix, and is provided with means for adjusting it close relatively to the said gaging gap, and a casting-mold unit embodying means which when the setting-tool unit is applied to the mold registers the gaging-gap of the tool-unit with the casting matrix.

1,400,424. VALVE STRUCTURE. Samuel Ernest Dumry, Philadelphia, Pa., assignor to Schutte & Koerting Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 11, 1919. Serial No. 303,350. 3 Claims. (Cl. 277—18.)



1. In combination with two chambers, one having an inlet and the other an outlet passage for fluids, and each

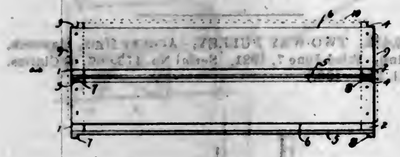
chamber having an additional oppositely disposed partial valve seat, valves movable in each chamber for coöperating with said valve seats, each pair of valves being connected together so as to move simultaneously to close one and open the other valve seat, means for supporting said valves in alinement with the valve seats, a rotatable shaft extending through the two chambers of the casing and means actuated by said shaft for simultaneously actuating the two pairs of connected valves in the same direction.

1,400,425. CONTAINER-OPENER. Frank Dobrick, Cleveland, Ohio. Filed June 24, 1918. Serial No. 241,963. 1 Claim. (Cl. 220—68.)



An opener for receptacles having separable sections, including a lever having inwardly extending side flanges, a bracket on one of the sections having arms, between which said lever is disposed, a pivot pin passing through said arms and flanges, said lever having a free end spaced from the receptacle and its other end extending inwardly as a crank and reinforced by said flanges, the other section having a flange resting on said crank, a spring to hold the crank against the flange mounted on said pivot pin and protected by the lever flanges, and said free end of the lever being positioned so that the hand may hold the box and a finger thereof employed to urge the said free end toward the box.

1,400,426. DESERT-TRAY. Cosmo O. Mason, Watsonville, Calif. Filed Sept. 4, 1921. Serial No. 494,697. 1 Claim. (Cl. 217—18.)

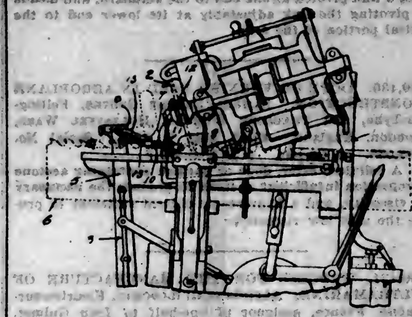


A berry tray comprising end pieces having oppositely directed rabbets formed therein and in their upper edges, side and bottom slats arranged on said end pieces to space the same, and means arranged at each end of and upon said bottom slats to engage corresponding rabbets in a tray placed therebelow, whereby the one tray may slide freely on the tray below.

1,400,427. SAW-FILING-MACHINE ATTACHMENT. Lyman M. Walton, Indianapolis, Ind. Filed Jan. 10, 1920. Serial No. 350,615. 2 Claims. (Cl. 76—77.)

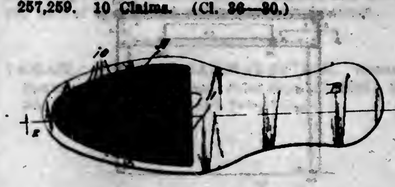
1. In combination, a band saw filing machine having front and rear feeding mechanisms including oscillating

levers, bodies movable to said levers, feeth engaging elements on said bodies, and means carried by said bodies



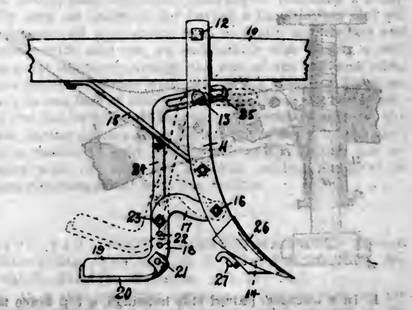
and adapted to engage the teeth of the saw and move the latter in case the teeth engaging elements ride over broken teeth.

1,400,428. FABRIC BACKING FOR COMPOSITION SOLES. Conroy B. Greenough, deceased, by Hollis B. Greenough, administratrix, Malden, Mass., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 7, 1918. Serial No. 257,259. 10 Claims. (Cl. 36—30.)



1. A shoe sole comprising a body formed of vulcanized material and a cord fabric backing counterwunk in the surface of the sole and incorporated therein by vulcanization, said backing having an exposed surface flush with the surface of the sole.

1,400,429. PLOW. Daniel W. Gage, Pritchett, Tex. Filed June 28, 1920. Serial No. 392,721. 1 Claim. (Cl. 97—28.)



In a plow including a shovel supporting standard, an arm formed with an upper substantially horizontal forwardly extending portion pivoted at its forward end to the standard, a lower substantially horizontal rearwardly

extending portion carrying a wearing shoe, a substantially vertical portion between the upper and lower portions, a link pivoted at one end to the standard, and means for pivoting the link adjustably at its lower end to the vertical portion of the arm.

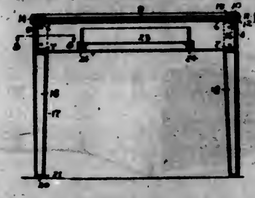
1,400,430. DOPE OR VARNISH USED IN AEROPLANE CONSTRUCTION. SAMUEL BARBER GROVES, Felling-on-Tyne, and THEODORE WILLIAM HOLZAPFEL WARD, London, England. Filed Aug. 2, 1918. Serial No. 248,085. 2 Claims. (Cl. 134—79.)

1. A cellulose ester, dope or varnish containing acetone in proportion insufficient of itself to produce the necessary low viscosity, and a hygroscopic chlorid sufficient to produce the said low viscosity.

1,400,431. PROCESS FOR THE MANUFACTURE OF ULTRAMARINE. ALPHONSE GUILLOCHIN, Fleurieu-sur-Saône, France, assignor of one-half to Jean Guimet, Fleurieu-sur-Saône, France. Filed May 7, 1920. Serial No. 379,571. 5 Claims. (Cl. 134—77.)

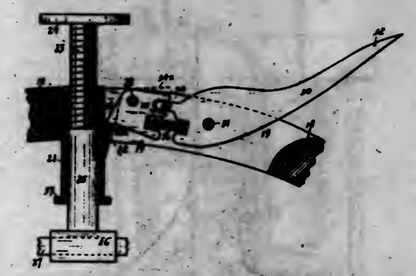
1. In the manufacture of ultramarine blue or green, the step of heating a mixture of clay, sulfur, and alkaline metal sulfite.

1,400,432. TABLE. GEORGE F. HAHN, Cleveland, Ohio. Filed Mar. 15, 1920. Serial No. 365,716. 2 Claims. (Cl. 45—81.)



1. A table, comprising a rectangular metal frame, legs at each corner of said rectangular frame, and a flat metal top having a narrow raised border and narrow wooden strips folded and confined wholly within said raised border and adapted to be seated upon and united with said frame.

1,400,433. WRINGER. HANS HANSEN, Kansas City, Mo. Filed May 19, 1921. Serial No. 470,896. 4 Claims. (Cl. 68—32.)



1. In a wringer, paired side housings, a top brace member connecting said housings, said brace member having a vertical shaft bearing centrally arranged therein and a vertical slot at one side of said bearing and connected therewith; a bushing slidably mounted within said shaft bearing, a flanged head at the base of said bushing and below said top brace member, a slide catch on said bushing arranged within said vertical slot; a pair of wringer rolls arranged one above the other within said housings, the upper roll being vertically adjustable; a spring bar above and spanning the bearings of said upper roll, a pin rigid with said spring bar at the center thereof and upwardly extended within said bushing; a dog pivotally mounted within said vertical slot and in locking engagement with the side catch on said bushing; and lever means pivotally mounted within said vertical slot and in operative engagement with said dog.

1,400,434. WHEEL. THOMAS C. HARVEY, Carrollton, Miss. Filed Apr. 23, 1920. Serial No. 376,106. 2 Claims. (Cl. 305—5.)



1. A traction device having a driving gear, a wheel provided with a rim thereon to be driven by said gear, a turnable rim-engaging element disposed diametrically opposite to said gear, a shaft on which said gear is fixed, a shaft on which said element is journaled, a stationary supporting member, bearing means extending from the supporting member for the first shaft, and bearing arms extending from the supporting member to mount the second shaft, a plate on which the rim rotates, and means securing one of the arms to the plate.

1,400,435. TWO-WAY PULLEY. AUGUST HEIL, Hancock, Minn. Filed June 7, 1921. Serial No. 475,666. 3 Claims. (Cl. 254—190.)



1. The combination with a supporting wall having an opening therein, a plate secured over said opening and having slots arranged in planes at right angles to each other with their inner ends intersecting; combined guards and supports carried by said plate at opposite sides of said slots, one guard on one face of said plate and the other on its opposed face and sheaves journaled in said supports with their peripheries extending adjacent said slots.

1,400,436. INDICATOR. FREDERICK R. HEIL and ALOISIUS J. ROESCHE, Rochester, N. Y. Filed Mar. 6, 1920. Serial No. 363,742. 2 Claims. (Cl. 33—172.)



2. In an indicator, the combination of a dial, a contact lever of the second class mounted to swing at one end of said dial, an indicating lever of the third class mounted to swing near the other end of said dial, a lever of the second class to transmit the movement of the contact lever in one direction to the indicating lever, a compound lever including the last named lever for transmitting the movement of the contact lever in the other direction to the indicating lever, said indicating lever normally standing at zero and moving in but one direction therefrom for the movement of the contact lever in either direction from normal, a cover for said dial, a part of said compound lever being mounted on said cover.

1,400,437. SADIRON. ELMER HYDELL, College Hill, Pa., assignor of one-half to Cyrus B. Ruble, Rochester, Pa. Filed Mar. 24, 1921. Serial No. 455,278. 3 Claims. (Cl. 219—25.)

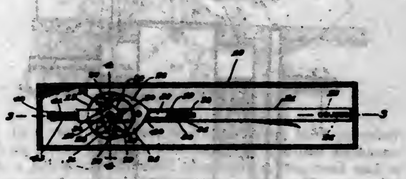


1. A sad-iron structure including iron and stand adapted to be connected in series with a source of electric current, a heating element within the iron, and a make-and-break device in the line of current flow opened by the seating of the iron in the stand, whereby flow from the source of current through iron and stand is cut off, and closed by the removal of the iron from such seating, whereby the flow from the source of current through iron and stand is established.

1,400,438. CHANGEABLE SIGN. HARRY JAQUETTE, Philadelphia, Pa. Filed Aug. 10, 1920. Serial No. 402,578. 2 Claims. (Cl. 40—140.)

1. A sign structure of the character described including strip plates mounted one above another, said plates adjacent one edge having a double fold providing a groove and a channel separated by a partition, the opposite edge portions of said plates being resilient, one of said latter edge portions extending into the channel of an adjacent plate and being free to flex between the partition and the opposite wall of the channel, substantially as described.

1,400,439. ELECTRIC RAILWAY-SWITCH. ROBERT L. JOHNSON, Nashville, Tenn. Filed Sept. 23, 1920. Serial No. 412,169. 1 Claim. (Cl. 246—327.)

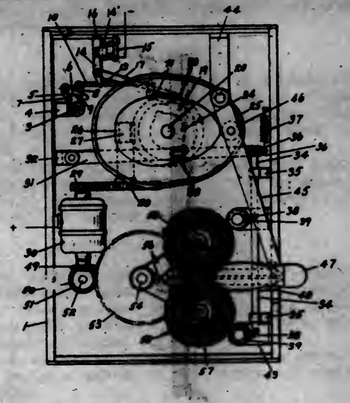


A switch point operating mechanism, including a resiliently held car operated bar having a longitudinal slot adjacent one end, a reversing pawl pivotally mounted on and movable with said bar, an oscillatable disk having a central pivot disposed through the slot of the bar and being operatively connected with the switch point, a block secured to one face of the disk and straddling the bar to permit the bar to slide thereunder, the opposite sides of the block having notches for alternate engagement by the pawl and a resiliently held plunger carried by the bar for engaging with the pawl for yieldably holding the pawl in alternate engagement with the notches.

1,400,440. SHOE-POLISHING MACHINE. JOSEPH HENRY KARP, New York, N. Y. Filed Dec. 10, 1919. Serial No. 343,775. 6 Claims. (Cl. 15—82.)

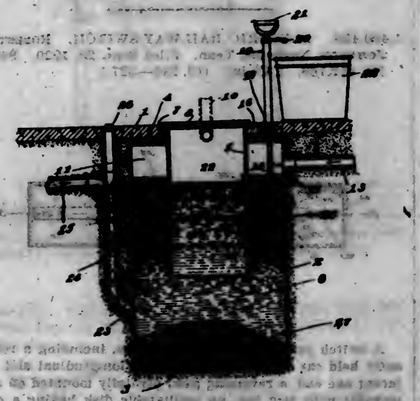
3. In a shoe polishing machine, a foot support, an upstanding spindle, a pair of brushes, arms pivoted to the upstanding spindle and carrying the brushes and means associated with the arms for impelling the brushes toward one another, in combination with an electric motor, operative connections between the motor and the brushes for

supporting bolts to the trunnions, and adjustable operative connections between the clutch and the foot support



for reciprocating the latter to and fro between the rotating brushes.

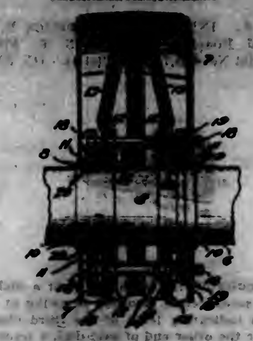
1,400,441. OIL-SEPARATOR TRAP. EDWARD C. KELLY, Boston, Mass. Filed June 17, 1920. Serial No. 389,561. 6 Claims. (Cl. 210—61.)



1. An oil separator having in combination, a closed fluid container, an open ended casing extending downwardly into said container, said casing having a cross sectional area of sufficient extent to permit the ready passage of clean-cut oils therethrough, a removable cover for the outer end of said casing, and means for discharging mingled oil and water directly into the space between said container and casing, and at a point substantially above the lower end of said casing.

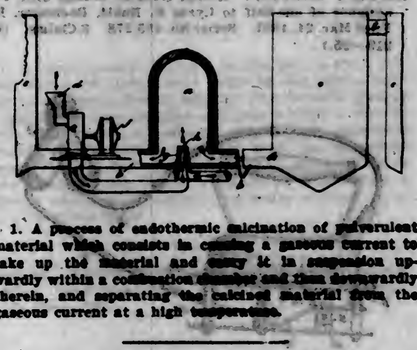
1,400,442. WHEEL-HUB. PATRICK J. KILCULLEN, Philadelphia, Pa. Filed Feb. 2, 1920. Serial No. 355,888. 2 Claims. (Cl. 64—17.)

1. A hub of the character described including two spaced split collars for surrounding a shaft said bearing parts provided with a surface tapering to the axis of the shaft; members coacting with the tapered surfaces of said collars; and clamping bolts movable in the direction of the length of the shaft whereby said collars may be drawn tightened, said members all the while maintaining their relative positions along said tapered surfaces of the collars and shaft.



clamp the latter to the shaft, said collars having connecting portions spaced apart serving as means of connection to the peripheral part of a rotatable member; substantially as described.

1,400,443. CALCINING. CHARLES ARTHUR KING, Leeds, and WILLIAM STEPHEN RAWSON, London, England. Filed Sept. 3, 1918. Serial No. 252,437. 3 Claims. (Cl. 75—17.)



1. A process of endothermic calcination of pulverulent material which consists in causing a gaseous current to take up the material and carry it in suspension upwardly within a combustion chamber and then downwardly therein, and separating the calcined material from the gaseous current at a high temperature.

1,400,444. AIR-MOISTENING DEVICE. WILLIAM B. KRAKLAU and CHRIST BERTSCHENEIDER, St. Paul, Minn. Filed Apr. 4, 1921. Serial No. 458,428. 2 Claims. (Cl. 237—78.)



1. An air moistening device in connection with a hot water radiator, comprising a liquid container to float controlled water inlet having a discharge opening into the liquid container and in open communication with the interior of the radiator, a pipe in open communication with the interior of the container and extending

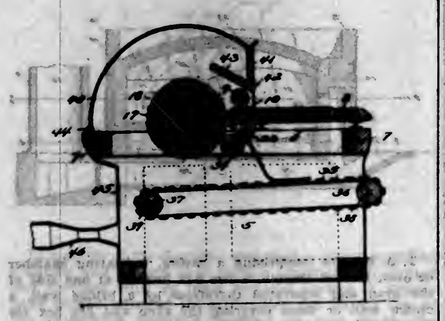
horizontally into the interior of the radiator, and a float cut off valve between said float controlled water inlet and the radiator.

1,400,445. TENT-ROPE TIGHTENER. JOHN V. LOFQUIST, St. Paul, Minn. Filed Feb. 28, 1921. Serial No. 448,567. 3 Claims. (Cl. 135—15.)



1. A tent rope holding and stretching device comprising a journal bearing, a shaft journaled in the bearing and having at one end a handle by which to rotate it and at the other end being offset to form a crank and terminating in a means adapted to have the rope attached to it, said crank serving as a winding drum for a portion of the attached rope, and means for securing the bearing to the ground.

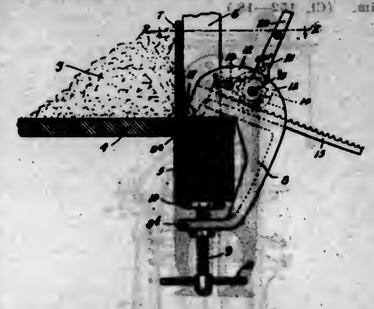
1,400,446. MACHINE FOR TREATING BLANKETS. JOHN MCCREARY and EDWARD J. MCCREARY, Cohoes, N. Y. Filed July 17, 1920. Serial No. 396,975. 6 Claims. (Cl. 26—4.)



2. In a blanket napping machine, the combination with a brush cylinder and means for feeding a blanket or fabric thereto, of an adjustable curved rigid pressure bar depending in advance of the cylinder and between the feed rolls and the cylinder.

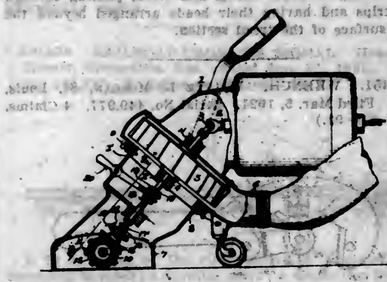
1,400,447. GRAIN-DOOR-FORCING DEVICE. WILLIAM H. MCGANN, Minneapolis, Minn. Filed Aug. 30, 1920. Serial No. 407,052. 6 Claims. (Cl. 254—84.)

1. A grain door forcing device comprising a clamp having means for rigidly securing the same to a side sill and floor structure of a box car with its upper portion exposed in the door opening, a thrust plunger mounted on the upper portion of said clamp for movement therethrough against a grain door applied in the door opening, and a manually operated power multiplying device applied to



said clamp and operative on said plunger to force the same against a grain door.

1,400,448. VACUUM-CLEANER. EDWIN B. MALLENTHIN, Waukesha, Wis. Filed Feb. 10, 1921. Serial No. 443,943. 2 Claims. (Cl. 15—60.)



2. In a vacuum cleaner having a hollow head provided with an intake neck and a tangentially disposed discharge pipe, a motor driven shaft journaled in the head and a fan mounted on the shaft; the combination of a detachable suction shell having a throat secured to the head neck, a drive shaft journaled in the shell coupling, means for connecting the drive shaft and motor driven shaft, revoluble brushes mounted in the shell, and a gear connection between the brushes and drive shaft.

1,400,449. WATER-TROUGH. ALFRED N. MENARD, Sallx, Iowa. Filed Mar. 23, 1921. Serial No. 454,648. 5 Claims. (Cl. 119—73.)



1. In a water trough structure, the combination of a main tank, a secondary trough supplied with water from the main tank, a heater under said trough for heating it, and a pipe for the flow of water from the tank adjacent to said heater under said trough and back into said tank.

1,400,450. ARMORED PNEUMATIC TIRE. Juan Bautista Morells and Caro Bautista Morells, Barcelona, Spain. Filed Aug. 28, 1919. Serial No. 320,486. 1 Claim. (Cl. 152—18.)



A tire casing made up of fabric sections cemented together, an armor section secured to the fabric section and comprising two fabric strips with a metallic armor section secured between them, cementitious material securing said strips of the armor section to each other and to the armor, and a tread section made up of a fabric strip having a rubber lining, and rivets passing through the strips and having their heads arranged beyond the outer surface of the tread section.

1,400,451. WRENCH. Walter L. Morgan, St. Louis, Mo. Filed Mar. 5, 1921. Serial No. 449,977. 4 Claims. (Cl. 81—91.)



1. A wrench comprising a handle, an outer jaw, a toothed shank pivotally connecting the outer jaw with the handle, a rotatable toothed jaw engaging the teeth of the shrank, means for holding the teeth in engagement and a link pivotally connecting the rotatable jaw with the handle, whereby the latter may be moved longitudinally of the shank.

1,400,452. TUBE CONSTRUCTION. John F. Muldoon, Melrose, Mass. Filed Dec. 13, 1919. Serial No. 344,680. 2 Claims. (Cl. 152—13.)



1. A tube structure comprising an inner spirally-wound fabric layer having spaced-apart convolutions, an outer spirally-wound fabric layer having spaced-apart convolutions disposed over the spaces between and overlapping the convolutions of said inner layer, and a resilient rubber tubular body structure intimately united with said fabric layers and separating and yieldingly uniting both fabric layers and also yieldingly uniting the convolutions of each fabric layer.

1,400,453. TIRE-SPREADING TOOL. Roy C. Norton, Los Angeles, Calif., assignor of one-half to William E. Nation, Los Angeles, Calif. Filed Mar. 31, 1921. Serial No. 457,185. 4 Claims. (Cl. 152—27.)



1. A tire spreading tool comprising an extensible body portion curved to fit over a tire, a hook arranged on one end thereof, a substantially straight arm extending from the opposite end of the body portion, and an auxiliary hook carried by said tool movable with respect to body portion.

1,400,454. FURNACE. Horace H. Penn, Chattanooga, Tenn. Filed Apr. 12, 1920. Serial No. 373,447. 4 Claims. (Cl. 263—15.)

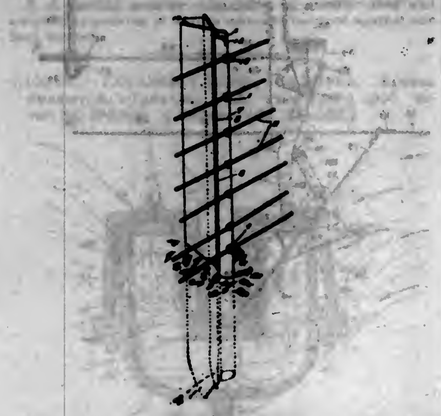


1. A furnace comprising a casing, a heating chamber or oven located therein, a fire box located at one side of the oven and separated therefrom by a bridge wall, a crown wall or dome covering the oven and fire box for directing the products of combustion from the latter across the bridge wall into the former, fresh air passages opening through the top of the bridge wall and a plurality of passages connecting with the oven through the side walls in a plane below the fresh air inlets for conducting the gases to the atmosphere.

1,400,455. FENCEPOST. Edwin T. Peterson, Gowrie, Iowa. Filed May 17, 1920. Serial No. 382,009. 1 Claim. (Cl. 189—22.)

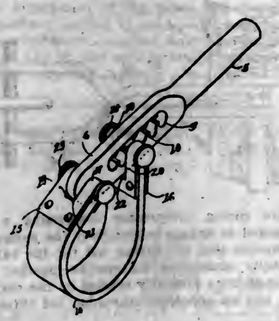
A fence post formed from a substantially rectangular sheet of metal which is centrally bulged to provide a cross sectionally round nose portion, the metal at the inner ends of the nose portion being brought into contacting engagement and riveted and from thence extended at opposite outer angles to provide the sides of the post, said

sides having their lower ends extended beyond the nose and the said extensions being V-shaped in side elevation



to provide prongs which are designed to be forced into the ground and to direct the lower portion of the nose also into the ground.

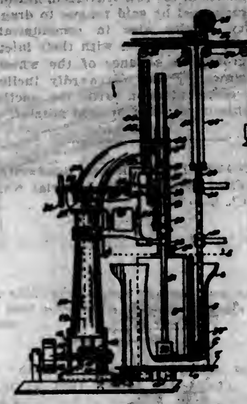
1,400,456. GREASE-CUP WRENCH. George W. Petrak, Marcellus, Wash. Filed Feb. 12, 1921. Serial No. 444,476. 1 Claim. (Cl. 81—64.)



In a device of the character described, a shank including a handle and a main body portion longitudinally slotted and provided with an inner serrated surface, a flexible band slotted adjacent its extremities and having one of the extremities pivotally mounted on said shank, the other extremity of said band being carried within the slotted portion and adjustable thereon, and reinforcing strips having cut-away portions therein adapted to register with the slots of said band to allow freedom of movement of said shank therein.

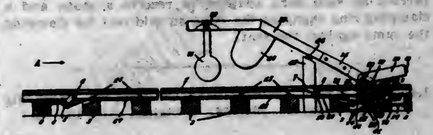
1,400,457. MACHINE FOR MAKING REINFORCED-CONCRETE PIPE. Burrows J. Primmer and Joseph L. Halstead, Los Angeles, Calif. Filed Mar. 16, 1920. Serial No. 366,841. 6 Claims. (Cl. 25—37.)

1. The combination in an apparatus for molding cement structures, of a rotatable mold, means for introducing plastic material to said mold during rotation of the same, tubular telescopic means for introducing and reinforcing wire into the mold chamber subsequent to the introduction of the plastic material, means for subsequently tamping the plastic material, means actuated by the up-strokes of the tamping means for elevating a part of the telescopic



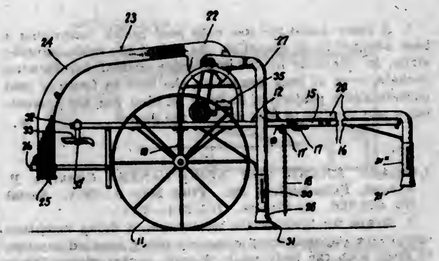
wire introducing means, and means for counterbalancing the weight of the movable part of the telescopic wire introducing means.

1,400,458. RAILROAD-CROSSING SIGNAL. Horace J. Ridout, Floresville, Tex. Filed Jan. 31, 1921. Serial No. 441,327. 5 Claims. (Cl. 246—299.)



1. In a device of the class described, a car-actuated operating member; a movable latch; a connection between the operating member and the latch; a shaft supported for rocking movement; a signal member connected with the shaft; a car-actuated arm on the shaft and engageable with the latch; and a keeper engaging the latch, the keeper comprising a part responsive to the movement of the shaft to disengage the keeper from the latch while the arm is moving toward engagement with the latch.

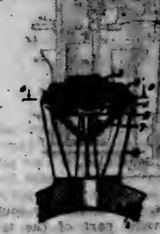
1,400,459. WEEVIL-EXTERMINATOR. Charles C. Roe, Wolfe City, Tex. Filed Nov. 2, 1920. Serial No. 421,320. 4 Claims. (Cl. 43—140.)



1. An apparatus for the purpose indicated having a supporting frame and wheels for supporting the frame

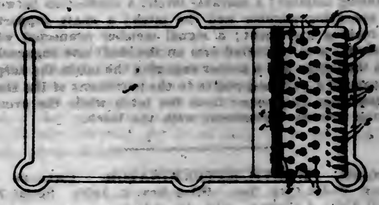
ing standing projects with an outer and outlying guiding finger having at its outwardly extending margin an attaching device having a main nozzle supported by said projection over the tops of the plants in the row traversed, flexible pendant agitators also supported by said tongue to drag upon the plants, auxiliary nozzles also in communication with the suction device and disposed with their inlet ends adjacent to the ground in advance of the wheels of said frame, and downwardly and rearwardly inclined receptacles also in communication with the suction device to receive the objects ejected by said nozzles.

1,400,460. RING-SETTING. Ernst Rosenthal, Brooklyn, N. Y. Filed [illegible], 1921. Serial No. 440,956. 6 Claims. (Cl. 63—26.)



1. A ring setting comprising a plurality of prongs, a plurality of bars connected with said prongs, a ridge seat carried by said bars adapted to receive a stone and a clamping ring engaging the stone on said seat for clamping the same against the seat.

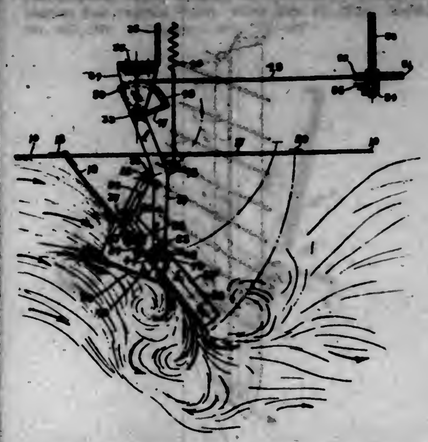
1,400,461. GAME. Tony Sicard, Gallatin, Pa. Filed July 6, 1920. Serial No. 394,154. 2 Claims. (Cl. 46—41.)



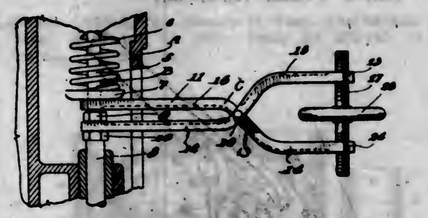
1. A game board for use with pool tables comprising a base adapted to be placed on one end of the table, parallel strips on the base at the rear edge thereof for forming pockets, rows of pegs located on the base in front of said pockets and a projection in front of each peg for preventing a ball coming to rest against the peg.

1,400,462. BRAKE FOR AEROPLANES. Charles P. Salomé, Philadelphia, Pa. Filed May 2, 1921. Serial No. 466,256. 21 Claims. (Cl. 244—29.)

1. Means for braking the momentum of flying machines comprising opposed wing-planes normally adapted to close in flush with the body walls thereof, pocket planes interconnected with said wing-planes, means for simultaneously moving the wing-planes outwardly in opposed forwardly-inclined relation relative to the body of the machine and simultaneously outwardly swinging the pocket planes into rearwardly inclined relation with respect to the wing planes.

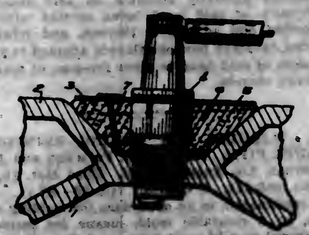


1,400,463. VALVE-LIFTER. Telford Sandefur, Roanoke, Va. Filed Mar. 9, 1920. Serial No. 362,396. 6 Claims. (Cl. 29—66.2.)



3. A valve spring compressor comprising a pair of shanks arranged to engage respectively the spring seat of a valve structure and the lifting rod for the valve stem, means pivotally connecting the shanks together intermediate their ends, nuts pivotally carried by the rear ends of the shanks, and an oppositely threaded rod threaded into said nuts.

1,400,464. SPARK-PLUG PACKING. Roy R. Seneca and Lawrence T. White, Pasadena, Calif. Filed Jan. 18, 1921. Serial No. 438,185. 7 Claims. (Cl. 123—193.)

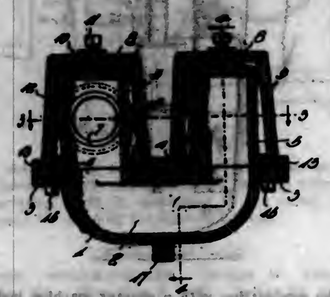


4. The combination with a cylinder head having a recess and a spark plug extending through said cylinder head

and the head of said [illegible] of a packing member received over said plug and shaped to fill radial clearance therebetween, said packing member being formed of fibrous material impregnated with oil.

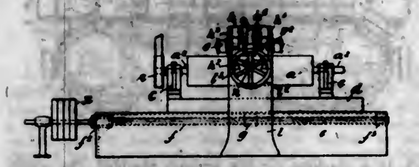
5. A packing member comprising an annular ring and an annular packing of fibrous material received against one face thereof.

1,400,465. EXPANSION-JOINT FOR PIPES. Samuel Sheriff, [illegible], N. Y. Filed July 6, 1920. Serial No. [illegible]. [illegible] (Cl. [illegible].)



4. An expansion joint for pipes comprising a body having a passage therethrough, at the opposite ends of which are seats, tubular members, closed at their tops and rotatably mounted on the seats, said members including means for attachment of the pipes, cup-shaped housings for the members carried by said body, being provided in their tops with screw-threaded holes, spring metal disks arranged on top of said members, and set-screws passing through said holes and engaging said disks.

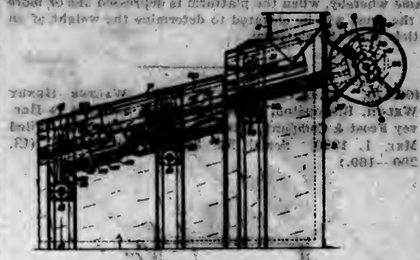
1,400,466. GRINDING-MACHINE. Frank Stache, Birmingham, England. Filed June 5, 1920. Serial No. 386,813. 3 Claims. (Cl. 51—95.)



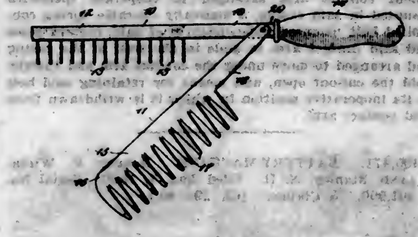
1. In a grinding machine, the combination of a support movable on a bed for the longitudinal movement of the roll or work, means for revolving the roll or work upon the support, a bracket spanning the work and adapted to carry the grinding wheel, said bracket being slidably fitted to supports on said bed, means for moving the bracket in its supports for grinding cut, and means for revolving the grinding wheel, substantially as described.

1,400,467. SEPARATOR. Thomas J. Stubenvath, Wellesley, Mass., assignor to Stuntevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 10, 1917. Serial No. 201,206. 4 Claims. (Cl. 20—56.)

1. A separator comprising, in combination, a casing, a pair of inclined screens for grading materials mounted thereon, beds of said screens having a pair of longitudinal bars between the sides thereof and a bracket bridging said bars between the screens, a pair of eccentrics, and rods extending from said eccentrics to said brackets to reciprocate said screens.

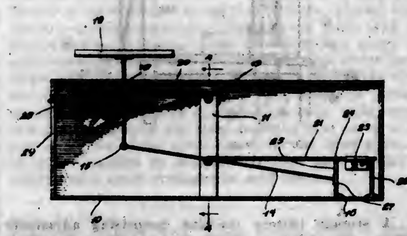


1,400,468. COMB. Violet V. Warner, New York, N. Y. Filed Apr. 12, 1921. Serial No. 460,611. 6 Claims. (Cl. 132—14.)



5. A comb comprising a solid comb-member including a body and teeth thereon, a hollow comb-member including spaced flexible sides and hollow teeth, the teeth of said solid comb-member being shorter than and of like number to the teeth of said hollow comb-member, the hollow comb-member being connected to the other comb-member for pivotal movement with respect thereto so that the solid comb-member may be moved into the hollow comb-member.

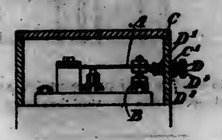
1,400,469. SCALE. Albert E. Weiss, Alpena, Mich. Filed Apr. 10, 1920. Serial No. 372,855. 2 Claims. (Cl. 265—48.)



1. A scale embodying a horizontally pivoted frame, said frame including a transverse pivot bar, a plurality of longitudinally extending spaced arms each having one of its ends pivotally secured to the bar and capable of independ-

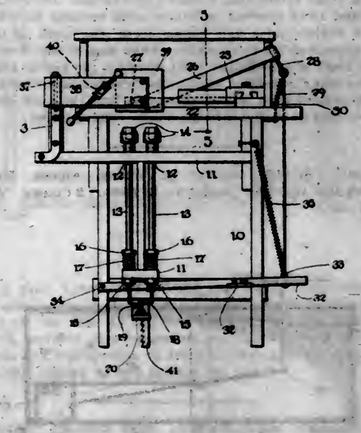
and movement, a weight mounted to the free end of each of the arms, each of said weights being of the same weight, a platform connected to the frame and means carried by the frame whereby, when the platform is depressed one or more of the arms will be deflected to determine the weight of an article upon the platform.

1,400,470. ELECTRICAL CUT-OUT. WALTER HENRY WELCH, Bishopston, Bristol, England, assignor to Harvey Frost & Company, Limited, London, England. Filed Mar. 1, 1920. Serial No. 362,177. 1 Claim. (Cl. 200—169.)



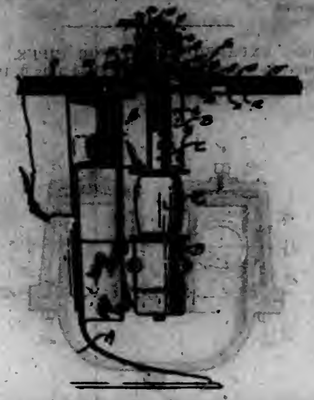
The combination of a casing, a respectively-operable electrical cut-out comprising a contact piece and a resilient contact arm arranged to coöperate therewith mounted in said casing, a manually operable spring controlled bolt mounted independently of said contact piece and said contact arm to slide in the wall of the casing and arranged to move under the contact arm and thereby hold the cut-out open, and means for retaining said bolt in its inoperative position in which it is withdrawn from said contact arm.

1,400,471. BATTERY-MACHINE. ROBERT F. WHEELAND, Stanley, N. D. Filed Aug. 7, 1920. Serial No. 401,990. 5 Claims. (Cl. 29—89.)



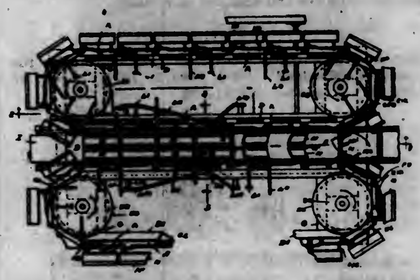
1. A storage battery machine comprising adjustable binding post receiving members, a separator gage, a cutting element, an adjustable stop for positioning the separators with respect to the cutting element and means whereby groups of separators and battery plates may be pressed together to facilitate their insertion in a battery jar.

1,400,472. ADJUSTABLE GUIDE-COLLAR FOR SHAPING-MACHINES. WILLIAM R. WRIGHT, Lenton, Tenn. Filed Feb. 21, 1921. Serial No. 445,606. 9 Claims. (Cl. 144—248.)



1. The combination with a shaping machine including a cutter, of a work table, a disk adjustably mounted for eccentric movement in said work supporting table with respect to said cutter, and a work guide collar eccentrically mounted in said disk.

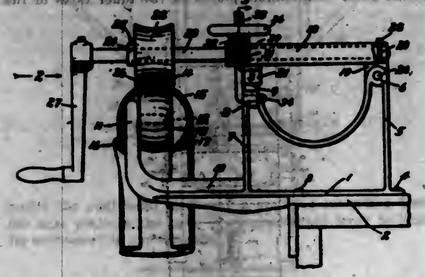
1,400,473. AUTOMATIC TILE-CUTTER. NOEL C. WHITNEY, Terre Haute, Ind. Filed May 4, 1921. Serial No. 466,771. 43 Claims. (Cl. 25—1.)



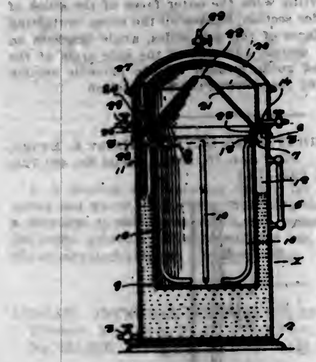
1. In a machine for the purpose specified, the combination of a pair of endless carriers, arranged side by side with their inner runs parallel; a series of supporting members mounted on said carriers, the said members when on the adjacent runs of the carrier supporting the material being operated upon; and a series of cutting devices mounted on the carriers and adapted to operate upon the material supported by the said members during the travel thereof, substantially as described.

1,400,474. TREAD-ROLLER. PAUL H. WILKINSON, San Bernardino, Calif. Filed Aug. 9, 1919. Serial No. 316,449. 6 Claims. (Cl. 154—10.)

1. A tread roller comprising a base, a pedestal extending upwardly from the rear end of the base, a second pedestal extending upwardly from the forward end of the base, an arm extending forwardly from the lower end of the second pedestal, a head extending upwardly from the forward end of the arm, a crown roller supported by the head, an operating shaft bearing pivotally connected to the first pedestal and adapted to rest upon the second pedestal, means for removably connecting the forward end of the shaft bearing to the second pedestal, an operating shaft mounted in the shaft bearing, a concave roller upon the operating shaft in opposition to the crown roller, and means for rotating the operating shaft.



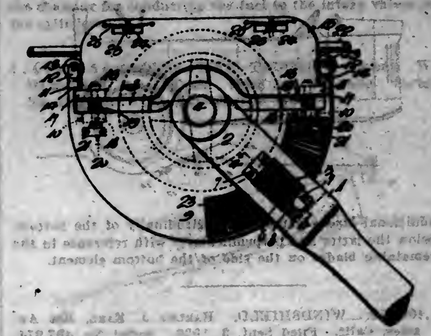
1,400,475. STEAM-COOKER. GEORGE W. ATKINSON, Louisa, Ky. Filed Feb. 3, 1921. Serial No. 442,171. 2 Claims. (Cl. 53—2.)



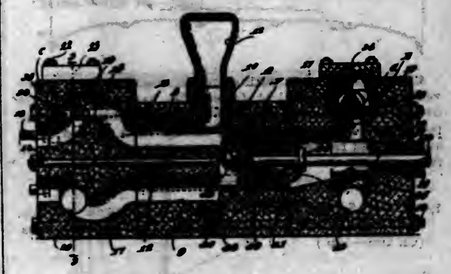
1. A steam cooker comprising a boiler having at its upper end an inwardly directed annular flange on the inner edge of which is an inwardly-inclined annular skirt, a can removably arranged in the boiler and having an inwardly-inclined annular upper portion seated in said skirt of the boiler and also having means to conduct steam from the steam space of the boiler to the lower portion of the interior of the can, and a condenser head having an inwardly-inclined flange removably seated in said annular portion of the can and also having a water jacket and an interior cone and valved outlet for water of condensation.

1,400,476. TROLLEY-HARP ATTACHMENT. JAMES C. COOPER, Sr., Altoona, Pa., assignor of one-half to Harry M. Wharton, Altoona, Pa. Filed Sept. 1, 1921. Serial No. 497,558. 5 Claims. (Cl. 191—78.)

1. The combination with a trolley pole harp, a trolley wheel and an axle supporting the wheel between the arms of the harp, of a frame having a lower section having side walls loosely suspended from said axle between said wheel and the arms of said harp, an upper frame section having side walls upon opposite sides of said wheel, coöperating means carried by said frame sections for limiting upward movement of the upper section, cross bars carried by the side walls of said frame sections, holes extending upwardly through said cross bars, springs upon said bolts between said cross bars to yieldably retain the upper frame section in a raised position, and blocks releasably secured between the walls of the lower frame section and beneath the cross bars thereof to support the belts against accidental displacement.



1,400,477. DOUBLE-ACTING DUPLEX PUMP. BENJAMIN F. CURTIS, Poteau, Okla. Filed Sept. 8, 1920. Serial No. 407,947. 2 Claims. (Cl. 103—78.)



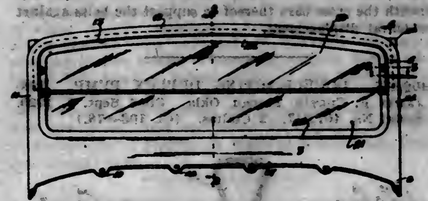
1. A pump comprising a vitreous body having a pair of longitudinally extending cylinder bores therein, vitreous heads fitted on the terminals of the body, longitudinally extending centrally disposed ways, formed in the block and heads intermediate the cylinder bores, the ways forming the inlet and discharge for the fluid, pistons reciprocably mounted in the bores, discharge and inlet ports formed in the heads at the terminals of the cylinder bores, laterally projecting ways connecting the ports with the longitudinally extending ways, and with the ports, the ports communicating with the sides and tops of the heads, detachable plates fitted over said ports, depending stems carried by the cover plates for the discharge ports, a slidably mounted valve arranged on each stem, spring means coiled around the stem engaging said valve, a leaf spring carried by the cover plates for the inlet ports, inlet valves carried by said leaf springs, and annular resilient valve seats arranged in said ports.

1,400,478. SKID FOR MOTOR-VEHICLES. JOSEPH DESCHAMPS, Chesterfield, Va. Filed May 28, 1921. Serial No. 473,518. 1 Claim. (Cl. 288—14.)

A skid for a motor vehicle, comprising a channel element having a bottom beveled at one end on the underside thereof, a cleat carried by the upper side of said bottom

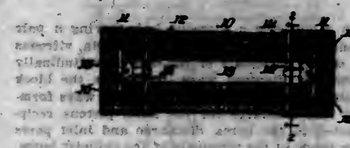
ment the entrance end thereof, additional elements spaced apart on the upper surface of the fabric, lateral extending transversely of the lower surface of the fabric, said additional blades extending longitudinally of the bottom, below the latter and perpendicularly with reference to the remaining blades on the side of the bottom element.

1,400,479. WINDSHIELD. HARLEY J. EARL, Los Angeles, Calif. Filed Sept. 8, 1920. Serial No. 407,974. 4 Claims. (Cl. 296—84.)



1. The combination with a stream line cowl for a motor vehicle, of a windshield frame, the base of which fits over the cowl so that the lines of the windshield form interrupted continuations of the stream lines of said hood, and a glazed frame adjustably arranged in said windshield frame.

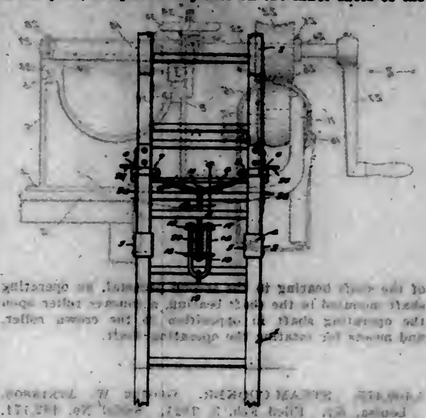
1,400,480. SAFETY-FUSE. ALFRED L. HUDNICK, Chicago, Ill. Filed Mar. 7, 1918. Serial No. 220,961. 5 Claims. (Cl. 200—119.)



1. A safety fuse having in combination, a closed casing, a fusible element therein electrically connected to parts exterior of the casing, and deflecting means contained within said casing and adapted to deflect any axially entering element from axial penetration of the fuse.

1,400,481. LADDER. EDWARD FRANCIS EVANS, Phoenix, Ariz. Filed Nov. 2, 1920. Serial No. 421,642. 2 Claims. (Cl. 228—60.)

A ladder comprising a fixed section and a movable section which contacts with and is slidable on the fixed section, a yoke surrounding the sections and hingedly connected to the fixed section, a rod pivotally connected to the inner ends of the yoke, a bolt member having a hooked end engaging the rod, a U-shaped element supported on one of the rounds of the fixed section, spaced plates on the arms of the U-shaped member, removable means for retaining the plates thereon, bolt receiving openings through both of the plates, a bolt on the bolt receiving ends of the inside plate, a spring surrounding the bolt and contacting with both of the plates, shoes journaled on the outer member of the yoke, compressible plates on the inner faces of the



shoes and contacting with the outer faces of the stiles of the movable ladder section, flanges on the shoes contacting with the outer faces of the said stiles, angle brackets on the fixed ladder section adjacent to the side arms of the yoke, and a fixed guide member on the movable section partly surrounding the stiles of the fixed section.

1,400,482. ANTIRATTLING DEVICE. HARRY E. EWING, Smithfield, Pa. Filed Apr. 15, 1921. Serial No. 461,728. 2 Claims. (Cl. 292—76.)



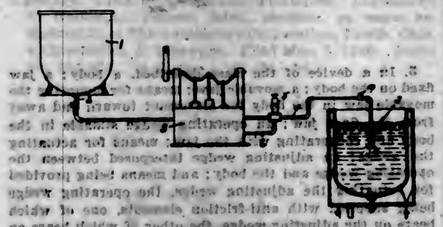
1. A device of the class described comprising a base member having a rightangularly extending projection, a spring strip secured to the outer end of said projection, the free end of said strip being of curved shape and a strip of non-metallic material located on the operative face of the spring strip.

1,400,483. LEVER-LOCK FOR END-GATES. CARL FREDERICK FERR, Arlington, Kans. Filed Aug. 30, 1919. Serial No. 319,894. 1 Claim. (Cl. 292—40.)

The combination with a hinged member, of a base plate secured thereto, a substantially triangular member pivotally mounted upon the base plate, oppositely disposed spring actuated latches pivotally connected to the opposite corners of the triangular member for engagement with stationary keepers, an additional latch pivotally mounted to the other corner of the triangular member for engagement with a stationary keeper, a guide lug extending from

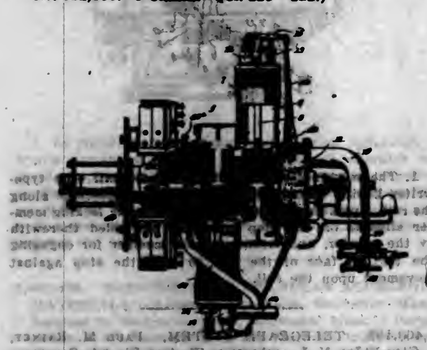
the base plate for the passage of the additional latch, an operating lever extending from the triangular member opposite the additional latch and a stop lug extending from the base plate in the path of the operating lever to limit its movement in one direction.

1,400,484. PROCESS OF TREATING SUBSTANCES. BENJAMIN A. GOULD, Toronto, Ontario, Canada, assignor to Merrell-Soule Company, Syracuse, N. Y., a Corporation of New York. Filed Mar. 6, 1920. Serial No. 363,757. 14 Claims. (Cl. 99—11.)



4. A process of combining butter fat with skim milk solids and water, comprising atomizing the butter fat into a solution of skim milk solids and water by forcing the fat under pressure not substantially less than 700 lbs. to the square inch through a minute orifice.

1,400,485. INTERNAL-COMBUSTION ENGINE. JOHN W. HUDSON, Brooklyn, N. Y. Filed Sept. 3, 1919. Serial No. 321,880. 9 Claims. (Cl. 123—122.)



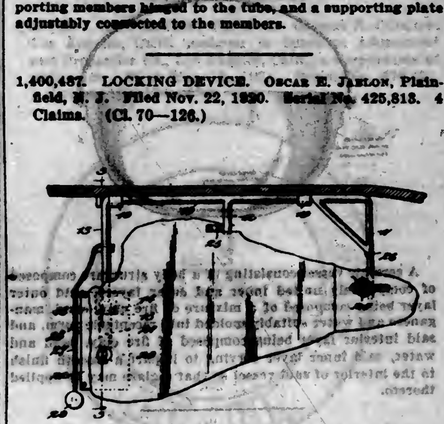
1. The combination with an internal combustion engine, including a crank case and crank shaft, the former having radial cylinders provided with reciprocating pistons, operatively connected with the crank shaft, a rectifying chamber surrounding the cranks shaft, means for delivering fuel to the chamber, means in the chamber for breaking the fuel by impingement of the fuel against said means to disintegrate the fuel, and means between the cylinders and the chamber for conducting the fuel to the intake valves of the cylinders.

1,400,486. OPERATING-TROUGH. GEORGE W. HUBBRICH, Breda, Iowa. Filed Jan. 17, 1920. Serial No. 352,022. 3 Claims. (Cl. 128—103.)



1. An operating trough comprising a tube, a rod adjustably mounted in the tube for the purpose described, supporting members hinged to the tube, and a supporting plate adjustably connected to the members.

1,400,487. LOCKING DEVICE. OSCAR E. JARLON, Plainfield, N. J. Filed Nov. 22, 1920. Serial No. 425,813. 4 Claims. (Cl. 70—126.)



1. In a locking device as characterized, a movable member, obstructing extensions movable with said member, and key controlled means including an automatically operable bolt and a notched part on said member with which said bolt coacts for locking said member against movement, the said means being operable to permit the movement of said member to move said extensions to non-obstructing positions.

1,400,488. VALVE FOR MOTORS AND THE LIKE. CARL OTTO LAUBSCHER, Dresden, Germany. Filed Sept. 30, 1916. Serial No. 123,068. 1 Claim. (Cl. 251—141.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

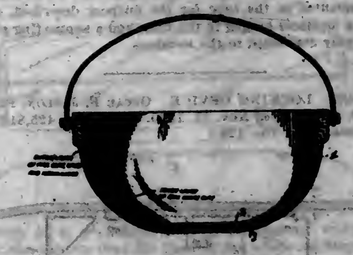
In a valve of the character described, the combination of a casing having a sharp edge seat, a threaded spindle provided with a longitudinal bore screwed into the casing and having a conical end adapted to be seated on said seat, a lateral handle for turning said spindle to seat and unseat said conical end, a spring secured at one end to the spindle and at the other end to the casing for automatically moving said valve from the open to the closed position, and

a flat spring secured to said spindle and having a projection adapted to snap into a notch in the casing when the



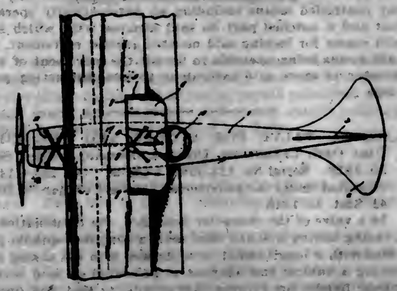
valve is moved into its open position, and a funnel at the open end of said spindle communicating with said longitudinal bore.

1,400,489. CERAMIC VESSEL. FREDERICK S. LOWRY, deceased, Roseville Ohio, by Mildred Lowry Hart, administratrix, Roseville, Ohio. Filed Mar. 1, 1919. Serial No. 280,067. 1 Claim. (Cl. 13—59.)



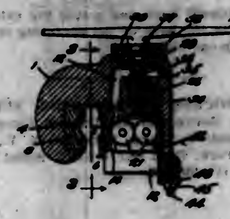
A ceramic vessel consisting of a body structure composed of concentrically united inner and outer layers, said outer layer being composed of a mixture of fire clay, sand, manganese and water suitably molded into receptacle form, and said interior layer being composed of fire clay, sand and water, said inner layer serving to impart a smooth finish to the interior of said vessel so that a glaze may be applied thereto.

1,400,490. AEROPLANE. DAN MCGEE, Fort Worth, Tex. Filed Apr. 25, 1921. Serial No. 464,074. 1 Claim. (Cl. 244—29.)



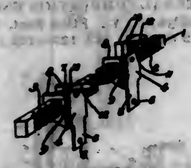
An aeroplane comprising a fuselage having at its rear end a rigid stabilizer and a rigid vane, a wing fixed with respect to the fuselage and having a recess in the rear edge, a vertically swinging fin normally centrally hinged to the wing and movable in said recess and having a pendant arm on which is rearwardly directed handle, a frame superimposed on the forward portion of the fuselage, and a horizontally swinging rudder pivoted between the top of said frame and the fuselage and having a rearwardly directed handle; the said fuselage being also provided with a seat for an aviator, and the handles being arranged in close proximity to said seat.

1,400,491. CLAMP. FRANKLIN M. MECHLING, Wichita, Kans. Filed Nov. 5, 1920. Serial No. 422,028. 5 Claims. (Cl. 24—126.)



5. In a device of the class described, a body; a jaw fixed on the body; a movable jaw; means for mounting the movable jaw in the body for movement toward and away from the fixed jaw; an operating wedge slidable in the body and coöperating with the jaw; means for actuating the wedge; an adjusting wedge interposed between the operating wedge and the body; and means being provided for actuating the adjusting wedge, the operating wedge being supplied with anti-friction elements, one of which bears on the adjusting wedge, the other of which bears on the movable jaw.

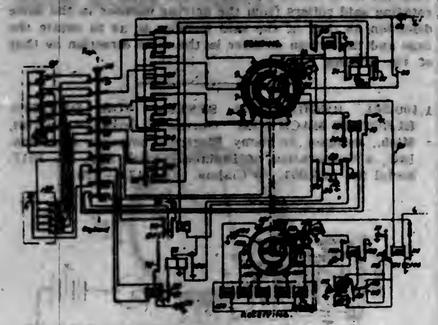
1,400,492. TABULATOR-STOP FOR TYPEWRITERS. WILLIAM MOLER, Oshkosh, Wis. Filed Oct. 15, 1920. Serial No. 417,066. 6 Claims. (Cl. 197—70.)



1. The combination with the tabulator rail of a typewriter having a toothed face, of a stop adjustable along the rail, a pointer projecting from the stop, a locking member slidable on the stop and held assembled therewith by the pointer, and means on said member for engaging the toothed face of the rail to hold the stop against movement upon the rail.

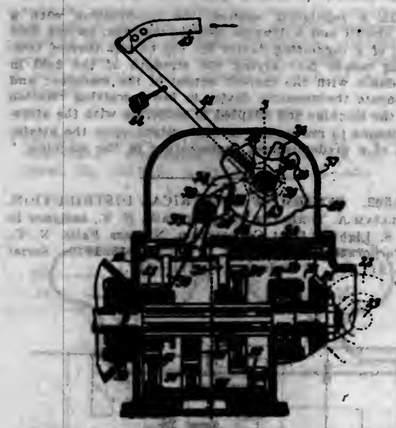
1,400,493. TELEGRAPH SYSTEM. PAUL M. RAINEY, Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 6, 1918. Serial No. 216,168. 81 Claims. (Cl. 178—23.)

19. In a telegraph system, means to set up a group of selecting units of varying characteristics, means to transmit a starting unit and a group of selecting units, and



means whereby one unit of each group may determine the character of the starting unit of the succeeding group.

1,400,494. LINE-CONTROLLED TRACTOR. LLEWELLYN S. WOODHULL, Detroit, Mich., assignor, by mesne assignments, to The Automotive Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Mar. 6, 1919. Serial No. 281,084. 10 Claims. (Cl. 74—58.)

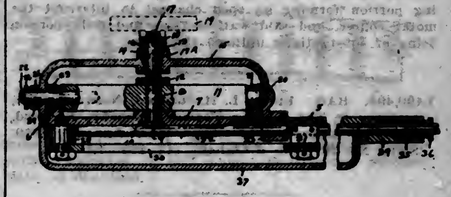


4. In speed changing power transmission apparatus, a driven element, a series of gears by means of which the speed of operation of the driven element may be increased or diminished, a cam for each of the gears continuously rotatable to cause sequential operation of the gears, and a line operated spring-returned lever for intermittently turning the cams.

1,400,495. TREATMENT OF GRANULAR ALUMINOUS MATERIALS. HARRY O. ANDERSON, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 30, 1921. Serial No. 457,006. 8 Claims. (Cl. 252.)

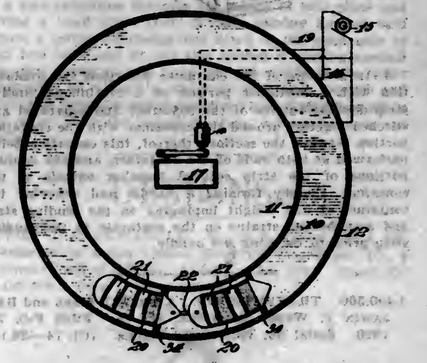
1. The method of treating crystalline aluminous material which comprises the step of subjecting such material in a suitable state of subdivision to the action of a silicate of an alkali metal.

1,400,496. POWER-SAW. JAMES D. BONNEVY, Portland, Oreg. Filed Aug. 7, 1920, Serial No. 401,856. Renewed Oct. 27, 1921. Serial No. 510,895. 2 Claims. (Cl. 143—68.)



1. In a power saw, the combination of a flat central plate member having a circular opening, a housing attached to one side of said plate over said opening, a crank disk occupying said opening and suitably mounted on a shaft means, power means for rotating said crank disk, a slide rod mounted on the side of said flat plate away from said housing, a connecting rod joining said crank disk to said slide rod, a cover plate adapted to inclose the entire connecting rod side of said plate member, and a saw means attached to the outer end of said slide rod.

1,400,497. AMUSEMENT DEVICE. GEORGE R. CUDLIPP, Los Angeles, Calif., assignor to Sunshine Amusement and Properties Co., Los Angeles, Calif., a Corporation of California. Filed May 18, 1921. Serial No. 470,497. 1 Claim. (Cl. 104—53.)



In an amusement device a track having side walls, a motor driven car arranged for operation on said track, caster wheels projecting laterally from said car and adapted to engage said side walls, and eccentrically mounted rolling supports on said car.

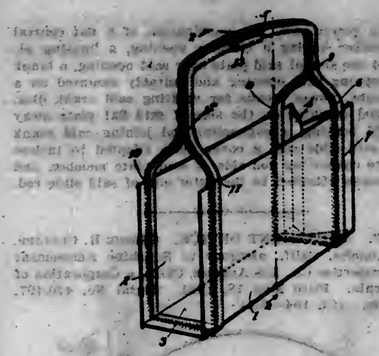
1,400,498. CHANNEL-BRICK. JONATHAN P. B. FISKE, Newton, Mass., assignor to Fiske & Company, Inc., a Corporation of Massachusetts. Filed July 3, 1916. Serial No. 108,160. 3 Claims. (Cl. 72—41.)



1. A channel brick of the kind described, adapted as a building unit for hollow twin wall structures, said brick comprising two cored wall sections, each section

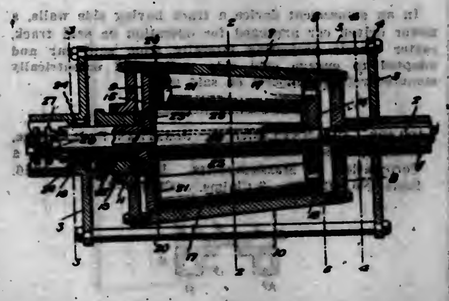
binding against outer and inner edges, the inner side being of substantially uniform thickness, each section forming a mortar mat and both sections being united by a horizontal body portion at one side of said vertical wall sections, the wall sections and uniting portion forming an open channel to interrupt the motar course, and said wall sections and body portion being of substantially uniform thickness.

1,400,499. BAG. Evelyn L. Henderson, Norwood, Ohio, assignor to The Kemper Thomas Company, Norwood, Ohio, a Corporation of Ohio. Filed June 27, 1919. Serial No. 307,148. 6 Claims. (Cl. 150—1.)



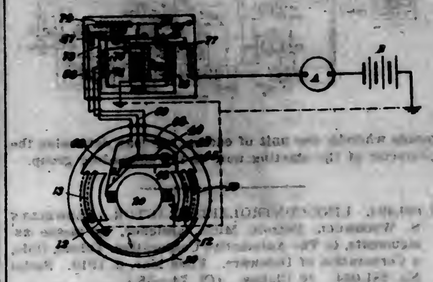
3. In a device of the character described the combination with a container portion of a continuous binding strip doubled outside of the container and separated and stitched together around the container with the container portion between the sections thereof, this operation being performed at both ends of the container, and the doubled portions of the strip secured together outside of the container, thereby forming a handle and relieving the container of any weight impinging on the binding strip and transferring strains on the container to the binding strip prior to reaching the handle.

1,400,500. TRANSMISSION. Andrew J. Earl and Benjamin F. Webb, Sisterville, W. Va. Filed Feb. 21, 1920. Serial No. 360,516. 6 Claims. (Cl. 74—26.)



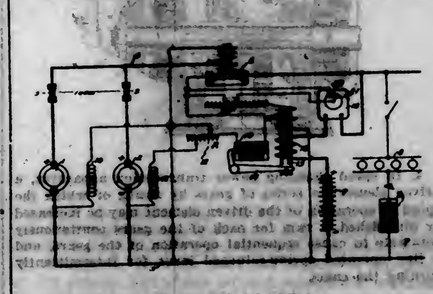
1. An apparatus of the class described comprising a driven member and a driving member, a roller cage rotatably mounted on the driving member, a casing carrying the driven member and adapted to inclose the cage with the inner circumference of the casing and means for rotating said rollers from the driving member in the same direction as that of the said member so as to rotate the cage and the driven member in the same direction as that of the driving member.

1,400,501. REGULATING SYSTEM FOR DYNAMO-ELECTRIC MACHINES. Orrin F. Conklin, Detroit, Mich., assignor to Remy Electric Company, Anderson, Ind., a Corporation of Indiana. Filed Apr. 28, 1917. Serial No. 165,051. 5 Claims. (Cl. 171—239.)



1. In a regulating system, the combination with a work circuit and a dynamo electric machine, having field coils; of a regulating device for the output thereof comprising means for varying the strength of the field in accordance with the current output of the machine; and a separate thermostatic device in heat receiving relation with the machine and adapted to cooperate with the aforesaid means to reduce the current output upon the attainment of a predetermined temperature in the machine.

1,400,502. SYSTEM OF ELECTRICAL DISTRIBUTION. William A. Turbayne, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Aug. 13, 1919. Serial No. 317,276. 3 Claims. (Cl. 171—313.)



1. In combination, a pair of variable speed generators, a pair of mains across which said generators are connected in parallel, each of said generators having a field winding, said field windings being connected to one of said mains, an adjustable resistance, the other terminals of said windings being connected together through said resistance, a variable resistance medium, means for controlling said medium, said windings being connected through said medium to the other of said mains.

1,400,503. FILM-CABINET. Clarence M. Gaskins, Jr., Baltimore, Md., assignor to Hall-Gaskins Mfg. Co., Inc., Baltimore, Md. Filed Jan. 13, 1917. Serial No. 142,289. 6 Claims. (Cl. 160—6.)



1. A film cabinet including a base comprising spaced standards, means connecting the standards intermediate their ends, a plurality of annular metallic members supported by the standards, disks of insulating material supported by said metallic members to provide a plurality of compartments, and a closure for each of said compartments.

1,400,504. LIQUID-FUEL BURNER. Carl William Springston, Wellington, Kans. Filed Jan. 20, 1920. Serial No. 352,563. 1 Claim. (Cl. 158—63.)



A fluid fuel burner comprising an unjointed pipe, a nozzle, the pipe defining a single loop beginning beneath the nozzle and passing over the nozzle to beneath the nozzle, the nozzle mounted to one end of the pipe and directed to the top portion of the pipe, a perforated baffle mounted beneath the upper portion of the pipe and adapted to direct the flame from the nozzle to the side portions of the loop and a drip pan cooperating with the baffle to direct flame from the pan to said side portions.

1,400,505. BED-SPRING. Charles H. Gail, Cincinnati, Ohio, assignor to The Shott Manufacturing Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 21, 1920. Serial No. 390,312. 24 Claims. (Cl. 5—29.)

1. In an appliance of the character described, the combination of a substantially-rigid frame having side and end bars and an intermediate longitudinal bar between and spaced away from said side bars, a supporting structure having independent sections on opposite sides of said intermediate bar and fastened thereto and to the corresponding side-bars of the frame, and upright spiral-springs mounted on said supporting-structure, substantially as described.



REISSUES.

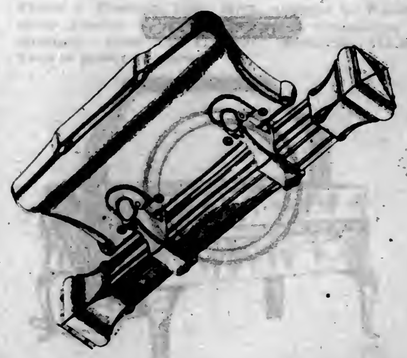
15,246. BOLT-LOCK. Ewing Munson, Scammon, Kans. Filed Dec. 24, 1920. Serial No. 433,055. Original No. 1,346,907, dated July 20, 1920, Serial No. 271,589, filed Jan. 17, 1919. 2 Claims. (Cl. 189—32.)



1. In a bolt lock, the combination with an angle plate, of a bolt extending through one flange of said plate and having a head other than circular bearing against said flange, a collar embracing and fitted to the sides only of said bolt head and at one side having a bearing against the other flange of said plate, the other side of the collar being clear of said plate, and a pin insertible through and removable from the collar and the head of said bolt while the collar is in the locked position, substantially as set forth.

DESIGNS.

59,946. CASKET-HANDLE. Frank B. Aston, Elgin, Ill., assignor to Aston Casket Hardware Co., Elgin, Ill., a Corporation of Illinois. Filed Jan. 15, 1921. Serial No. 437,599. Term of patent 7 years.



The ornamental design for a casket handle, as shown.

59,947. INSULATOR. Alexander O. Austin, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Aug. 12, 1918. Serial No. 249,553. Term of patent 14 years.



The ornamental design for an insulator, as shown.

59,948. FINGER-RING. Charles W. Bailey, Philadelphia, Pa. Filed June 11, 1921. Serial No. 476,955. Term of patent 7 years.



The ornamental design for a finger ring, as shown.

59,949. APPARATUS FOR HOUSING HOSE. Assignors to Baker, Hunt Wayne, Ind., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Dec. 20, 1920. Serial No. 432,126. Term of patent 14 years.



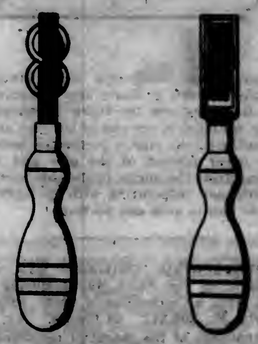
The ornamental design for an apparatus for housing hose as shown.

59,950. MEDICINAL TABLET. Alex Blackstone, Newark, N. J. Filed May 19, 1921. Serial No. 470,909. Term of patent 7 years.



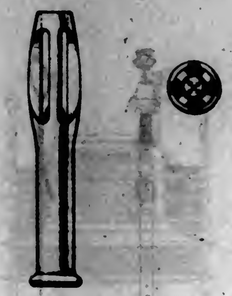
The ornamental design for a medicinal tablet, as shown.

59,951. KNIFE-SHARPENER. Samuel Brook, New Bedford, Mass. Filed Jan. 10, 1921. Serial No. 436,874. Term of patent 3½ years.



The ornamental design for a knife sharpener, as shown.

59,952. NOZZLE FOR SYRINGES. Henry L. Bower, East Orange, N. J. Filed July 14, 1921. Serial No. 484,776. Term of patent 14 years.



The ornamental design for a nozzle for syringes, as shown.

59,953. ALUMINUM ROASTER. Howard A. Church, Elkhart, Ind. Filed June 23, 1921. Serial No. 479,932. Term of patent 7 years.



The ornamental design for an aluminum roaster, as shown.

59,954. KNOB FOR COOKING OR KITCHEN UTENSILS. George E. Curtiss, New Britain, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a Corporation of Connecticut. Filed Nov. 25, 1919. Serial No. 340,682. Term of patent 14 years.



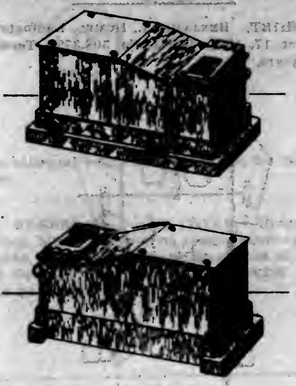
The ornamental design for a knob for cooking or kitchen utensils as shown.

59,955. DISPLAY-CARD. Charles Foster Farnham, Louisville, Ohio, assignor to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed Dec. 8, 1920. Serial No. 429,295. Term of patent 14 years.



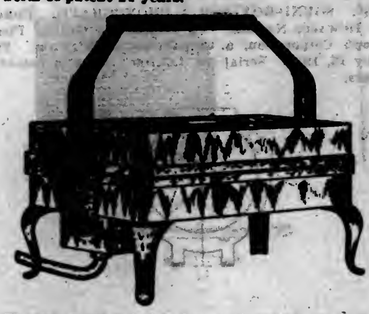
The ornamental design for a display card, as shown.

59,956. TAPE-TRANSMITTER CASING. William G. Plumartt, Rockville Center, N. Y. Filed July 23, 1921. Serial No. 487,202. Term of patent 3½ years.



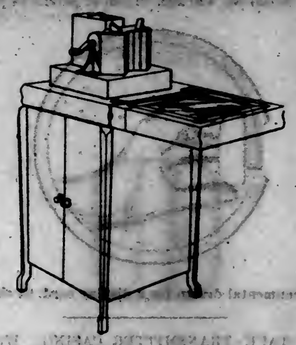
The ornamental design for a tape transmitter casing, as shown.

59,957. ELECTRICALLY-HEATED WAFFLE-IRON. Frank F. Forshee, Flint, Mich., assignor to Westinghouse Electric Products Company, a Corporation of Michigan. Filed Feb. 11, 1921. Serial No. 444,298. Term of patent 14 years.



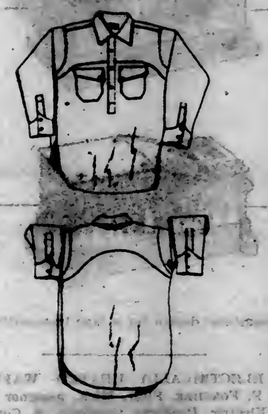
The ornamental design for an electrically heated waffle iron as shown.

59,958. MOVING-PICTURE MACHINE. Frederick W. Hetzenberger, Dayton, Ohio. Filed Dec. 13, 1920. Serial No. 430,083. Term of patent 14 years.



The ornamental design for a moving picture machine, as shown.

59,959. SHIRT. Benjamin L. Homel, Ludington, Mich. Filed Oct. 17, 1921. Serial No. 508,879. Term of patent 14 years.



The ornamental design for a shirt as shown.

59,960. SOUND-BOX FOR A PHONOGRAPH. Edmond C. Howard, Norfolk, Va., assignor to Granby Phonograph Corporation, a Corporation of Virginia. Filed July 15, 1921. Serial No. 485,109. Term of patent 14 years.



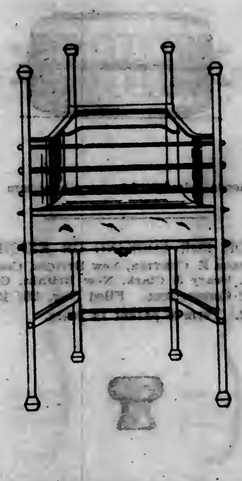
The ornamental design for a sound box for a phonograph, as shown.

59,961. BEDCOVER-RETAINER. Theodore S. Hermann, Spokane, Wash. Filed July 14, 1921. Serial No. 484,774. Term of patent 14 years.



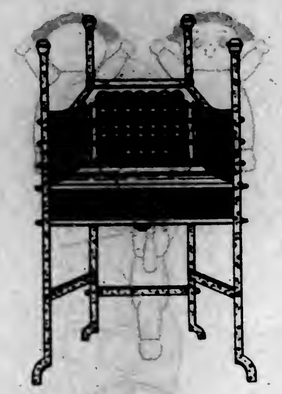
The ornamental design for a bedcover retainer as shown.

59,962. GAS-STOVE. Alfred H. Humphrey, New York, N. Y., assignor to General Gas Light Company, Kalamazoo, Mich. Filed Dec. 11, 1920. Serial No. 430,081. Term of patent 14 years.



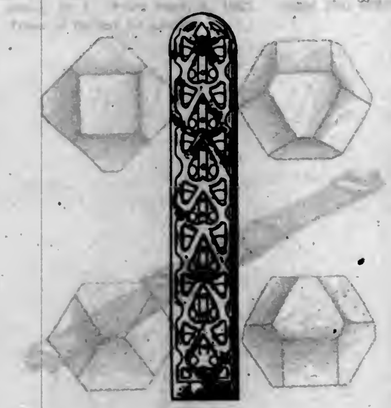
The ornamental design for a gas stove as shown.

59,963. GAS-STOVE. Alfred H. Humphrey, New York, N. Y., assignor to General Gas Light Company, Kalamazoo, Mich. Filed Dec. 11, 1920. Serial No. 430,082. Term of patent 14 years.



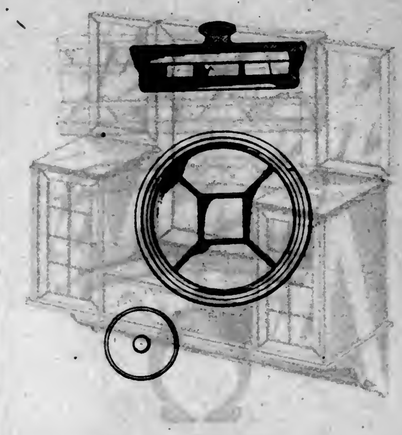
The ornamental design for a gas stove as shown.

59,964. RADIANT FOR GAS-STOVES. Alfred H. Humphrey, New York, N. Y. Filed Feb. 15, 1921. Serial No. 445,270. Term of patent 14 years.



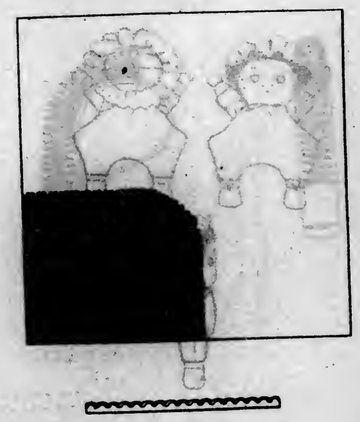
The ornamental design for a radiant for gas stoves, as shown.

59,965. RECEPTACLE FOR DENTISTS' USE. Spencer M. Hussey, Sidney Park, Pa., assignor to The Mysel Chemical Company, a Corporation of Delaware. Filed Jan. 7, 1921. Serial No. 435,751. Term of patent 14 years.



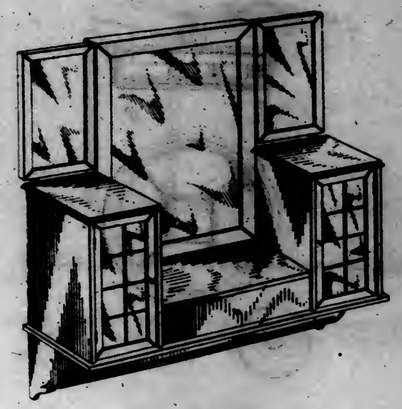
The ornamental design for a receptacle for dentists' use, as shown.

59,966. RUBBER MAT AND COVER. Henry Joseph, Grayling, Mich., assignor to Joseph Sanftary Products Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 16, 1920. Serial No. 423,195. Term of patent 14 years.



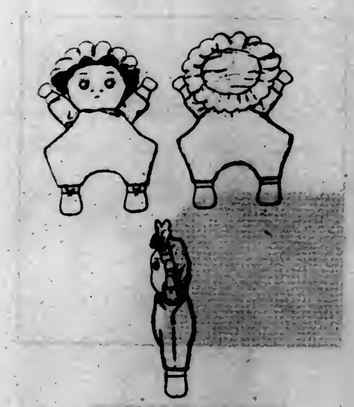
The ornamental design for a rubber mat and cover, as shown.

59,967. SHAVING-CABINET. Martin Jessel, Dallas, Tex. Filed Apr. 19, 1921. Serial No. 461,691. Term of patent 7 years.



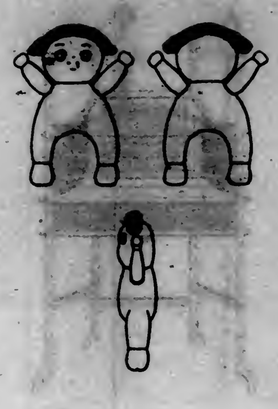
The ornamental design for a shaving cabinet as shown.

59,968. DOLL. Anna Keenan, Seattle, Wash. Filed Aug. 22, 1921. Serial No. 494,431. Term of patent 7 years.



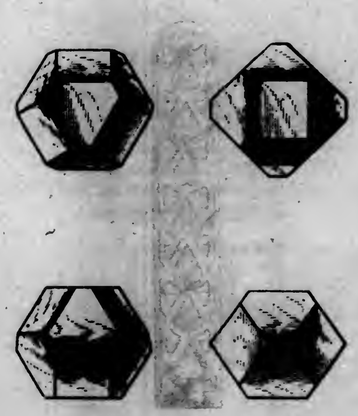
The ornamental design for a doll as shown.

59,969. DOLL. Anna Keenan, Seattle, Wash. Filed Sept. 17, 1921. Serial No. 501,461. Term of patent 7 years.



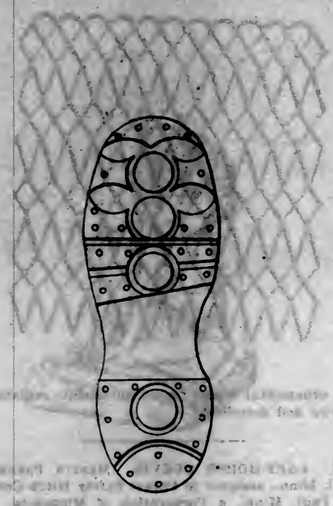
The ornamental design for a doll as shown.

59,970. DICE. Frank J. Knoefmakers, Chicago, Ill. Filed June 27, 1921. Serial No. 480,943. Term of patent 14 years.



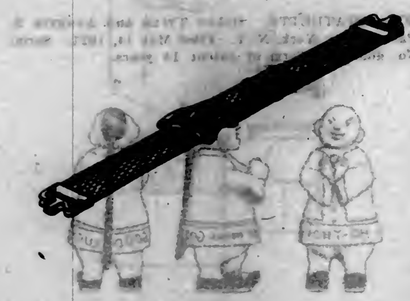
The ornamental design for dice, as shown.

59,971. SHOE-SOLE. Daniel T. Lego, Kansas City, Mo. Filed Aug. 23, 1920. Serial No. 405,512. Term of patent 14 years.



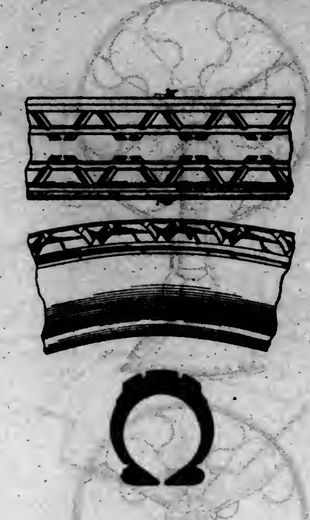
The ornamental design for a shoe sole as shown.

59,972. WATCH-BRACELET. Sigmund Ledberg, Providence, R. I. Filed Sept. 6, 1921. Serial No. 498,923. Term of patent 14 years.



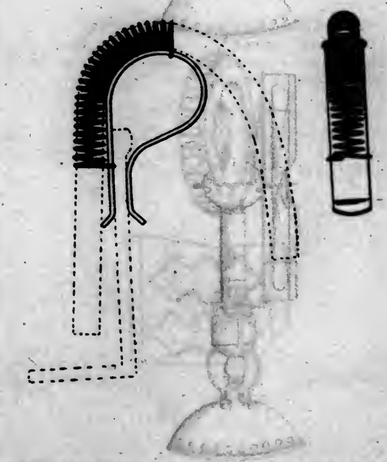
The ornamental design for a watch bracelet, as shown.

59,973. TIRE-TREAD. William W. McMahan, Trenton, N. J., assignor to Ajax Rubber Company, Inc., Millbrook, N. Y., a Corporation of New York. Filed July 13, 1921. Serial No. 484,505. Term of patent 14 years.



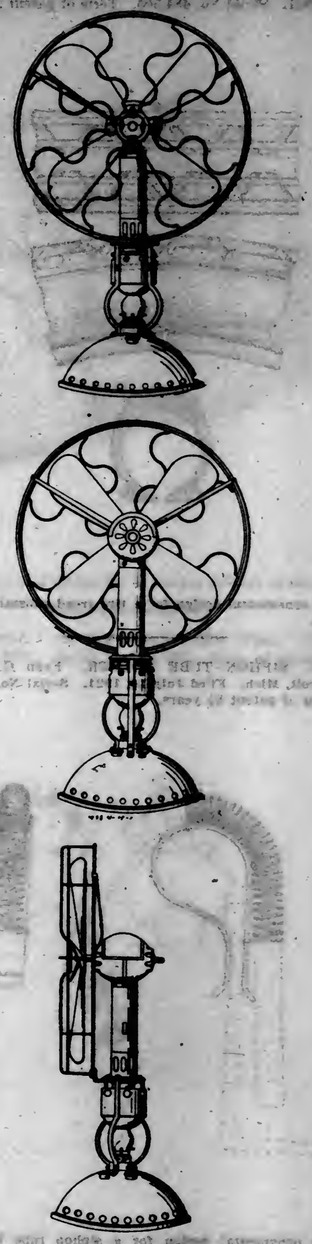
The ornamental design for a tire tread substantially as shown.

59,974. SIPHON-TUBE HOLDER. Fred G. Meyer, Detroit, Mich. Filed July 14, 1921. Serial No. 484,772. Term of patent 3½ years.



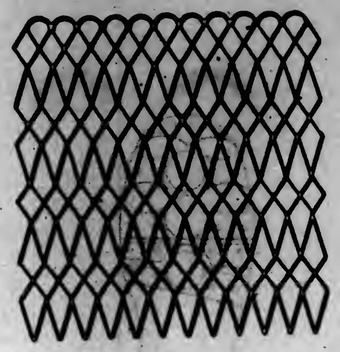
The ornamental design for a siphon tube holder as shown.

59,975. MOTOR-FAN. Thomas Manahan, San Leandro, Calif. Filed June 1, 1921. Serial No. 474,577. Term of patent 7 years.



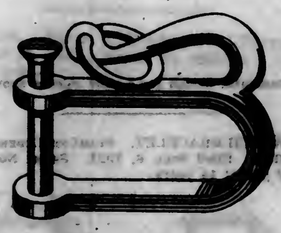
The ornamental design for a motor fan, as shown.

59,976. AUTOMOBILE-RADIATOR CORE. Assignor to Fedders Mfg. Co., Inc., Buffalo, N. Y. Filed Mar. 24, 1921. Serial No. 455,236. Term of patent 7 years.



The ornamental design for an automobile radiator core as shown and described.

59,977. LAZY-HORSE CLEVIS. Martin Parker, St. Paul, Minn., assignor to Parker Safety Hitch Company, St. Paul, Minn., a Corporation of Minnesota. Filed Jan. 22, 1921. Serial No. 439,300. Term of patent 7 years.



The ornamental design for a lazy horse clevis, as shown.

59,978. STATUETTE. Helen Tyler and Annette S. Pascal, New York, N. Y. Filed May 14, 1921. Serial No. 469,879. Term of patent 14 years.



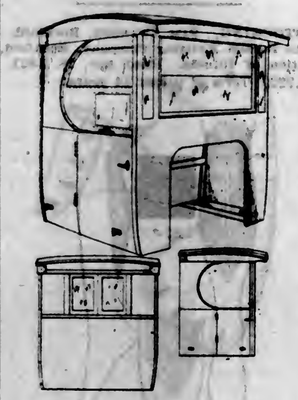
The ornamental design for a statuette substantially as shown.

59,979. LAMP-STAND. Herman [illegible] Parker, Buffalo, N. Y. Filed Mar. 21, 1921. Serial No. 454,966. Term of patent 7 years.



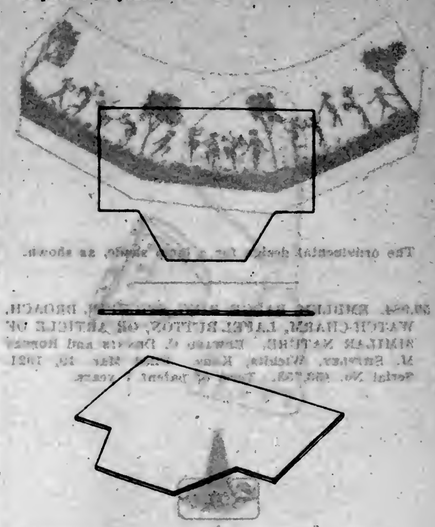
The ornamental design for a lamp stand as shown.

59,980. TRUCK-CAB. Frederick G. Proctor, Detroit, Mich., assignor to Proctor-Keefe Company, Detroit, Mich., a Copartnership comprising Frederick G. Proctor and Frank E. Keefe. Filed July 15, 1921. Serial No. 485,106. Term of patent 14 years.



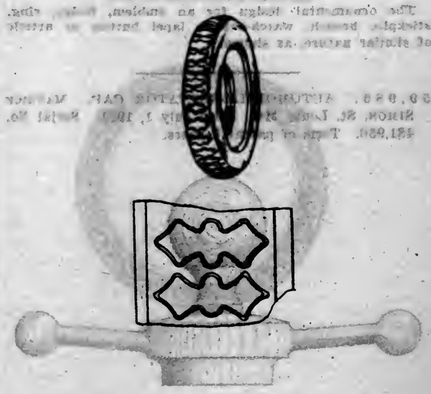
The ornamental design for a truck cab, as shown.

59,981. ROOFING-SHINGLE. Casper Russell, Port Jervis, N. Y., assignor to Charles H. Russell, Port Jervis, N. Y. Filed Dec. 14, 1920. Serial No. 430,761. Term of patent 14 years.



The ornamental design for a roofing shingle, as shown.

59,982. TIRE. Louis B. F. Schoenfeldt, Holyoke, Mass. Filed Sept. 25, 1920. Serial No. 412,881. Term of patent 14 years.



The ornamental design for a tire as shown.

59,983. LAMP-SHADE. RAMON HERBERT SCOTTSON, Atlantic City, N. J. Filed July 30, 1920. Serial No. 400,249. Term of patent 3½ years.



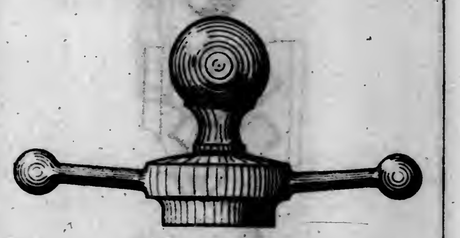
The ornamental design for a lamp shade, as shown.

59,984. EMBLEM, BADGE, RING, STICKPIN, BROACH, WATCH-CHARM, LAPEL-BUTTON, OR ARTICLE OF SIMILAR NATURE. EDWARD C. DENNIS and ROBERT M. SHIPLEY, Wichita, Kans. Filed Mar. 19, 1921. Serial No. 453,753. Term of patent 7 years.



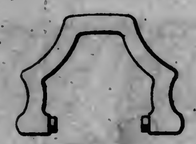
The ornamental design for an emblem, badge, ring, stickpin, broach, watch-charm, lapel button or article of similar nature, as shown.

59,985. AUTOMOBILE-RADIATOR CAP. MAURICE SIMON, St. Louis, Mo. Filed July 1, 1921. Serial No. 481,956. Term of patent 7 years.



The ornamental design for an automobile radiator cap, as shown.

59,986. PENDANT WATCH-BOW. SAMUEL SPERBER, New York, N. Y. Filed June 11, 1921. Serial No. 476,966. Term of patent 3½ years.



The ornamental design for a pendant watch bow, as shown.

59,987. AUTO-RADIATOR CAP. LLOYD RAYMOND STEELE, Auburn, N. Y. Filed May 6, 1921. Serial No. 467,282. Term of patent 3½ years.



The ornamental design for an auto radiator cap as shown.

59,988. STOCKING. SAM SWANSON, Rockford, Ill., assignor to Burson Knitting Company, Rockford, Ill., a Corporation of Illinois. Filed Apr. 28, 1921. Serial No. 465,222. Term of patent 14 years.



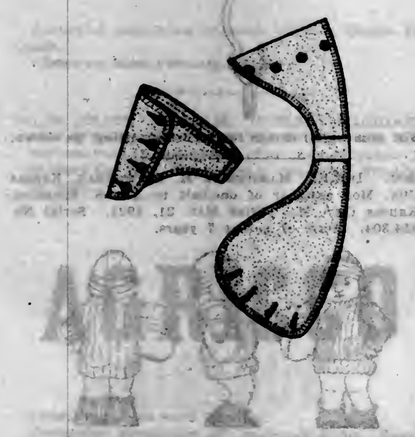
The ornamental design for a stocking, as shown.

59,989. PHONOGRAPH. WILLIAM H. THOMSEN, Plymouth, Wis. Filed Mar. 26, 1921. Serial No. 455,655. Term of patent 14 years.



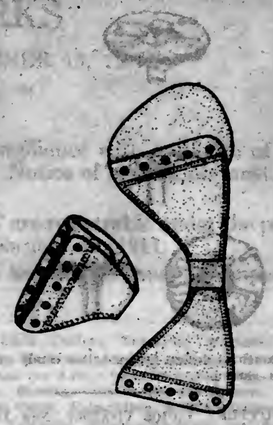
The ornamental design for a phonograph, substantially as shown and described.

59,990. FOOT-BAND. CHARLES TWAMLEY, Jefferson City, Mo. Filed Jan. 10, 1921. Serial No. 436,964. Term of patent 14 years.



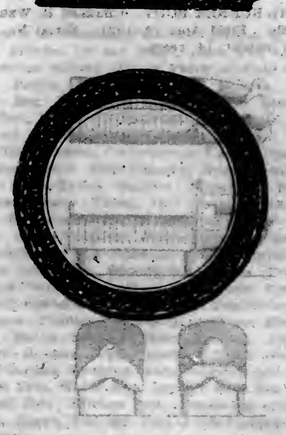
The ornamental design for a foot band, as shown.

59,991. FOOT-BAND. CHARLES TWAMLEY, Jefferson City, Mo. Filed Jan. 10, 1921. Serial No. 436,965. Term of patent 14 years.



The ornamental design for a foot-band, as shown.

59,992. RING FOR LIGHTING FIXTURES. ALBERT ULLMAN, Cleveland, Ohio, assignor to Scott-Ullman Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 11, 1921. Serial No. 460,503. Term of patent 3½ years.



The ornamental design for a ring for lighting fixtures, as shown.

59,993. EDIBLE CANDY OR CAKE CONFECTION. RUDOLPH VRBAN, Chicago, Ill. Filed May 7, 1921. Serial No. 467,575. Term of patent 14 years.



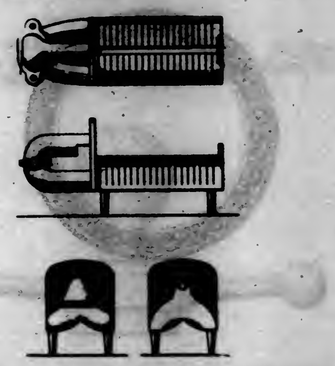
The ornamental design for an edible candy or cake confection, as shown.

59,994. BOTTLE. VICTOR VIVAUDOU, New York, N. Y. Filed Apr. 11, 1921. Serial No. 460,513. Term of patent 14 years.



The ornamental design for a bottle, as shown.

59,995. OIL-BURNER BODY. CHARLES B. WEBB, Cleveland, Ohio. Filed Apr. 19, 1921. Serial No. 462,709. Term of patent 14 years.



The ornamental design for an oil burner body, as shown.

59,996. CHARM. EDWARD L. WEBB, Providence, R. I., assignor to Potter & Sullivan Company, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 15, 1921. Serial No. 461,704. Term of patent 7 years.



The ornamental design for a charm, as shown.

59,997. PRECIOUS, SEMIPRECIOUS, OR SYNTHETIC STONE. EDWARD L. WEBB, Providence, R. I. Filed May 20, 1921. Serial No. 471,258. Term of patent 7 years.



The ornamental design for a precious, semiprecious or synthetic stone, as shown.

59,998. CURTAIN-FITTING. ERNEST LODGE WILSON, Ashton, Preston, England, assignor of one-half to Harold George Wilson, London, England. Filed Sept. 26, 1919. Serial No. 526,000. Term of patent 7 years.



The ornamental design for a curtain fitting, as shown.

59,999. DOLL. MARGUERITE M. ZIMMERMAN, Kansas City, Mo., assignor of one-half to Ada S. Simmons, Kansas City, Mo. Filed Mar. 21, 1921. Serial No. 454,304. Term of patent 7 years.



The ornamental design for a doll, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, DECEMBER 13, 1921.

[PUBLISHED DECEMBER 13, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of [illegible] each notice of opposition.

Ser. No. 122,906. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NEUSS, HESSLEIN & CO., INC., New York, N. Y. Filed Aug. 22, 1919.



Particular description of goods.—Woven Cotton Piece Goods.

Claims use since February, 1913.

Ser. No. 125,073. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) A/S. LANDBRUGSMASKIN-KOMPAGNIET (THE AGRICULTURAL-MACHINERY CO. LTD.,) Copenhagen, Denmark. Filed Nov. 19, 1919.

AGRICCO

Consisting of the word "Agricco."

Particular description of goods.—Tractors, Reapers, Binders, Mowing-Machines, Plows, Rakes, Harrows, Cultivators, Stalk-Cutters, Threshing-Machines, Planters, Haystacking-Machines, Milking-Machines, Listers, Drilling-Machines for Agricultural Purposes, Diggers, Manure-Spreaders, Bindings-Cutters, Straw-Presses, Chaff-Cutters, Hoists-Gears, Hoists-Hoes, Milling-Machines for Agricultural Purposes, Sorting-Machines for Sorting and Winnowing Grain and Seed, Triers, Grain Rolling-Mills, Harvesting-Machines, Explosion-Motors, Wind-Motors; Dairy-Machines—Namely, Pasteurizers and Heaters for Milk, Churns and Butter-Workers, Coolers for Milk, Separators and Clarifiers, Milk-Pumps; Circular Saws, Pumps, and Lawn-Mowers.

Claims use since Apr. 15, 1919.

Ser. No. 125,585. (CLASS 27. HOROLOGICAL INSTRUMENTS.) SOCIÉTÉ FRANÇAISE D'OBSERVERIE D'ART, Paris, France. Filed Dec. 4, 1919.



Particular description of goods.—Articles of Tableware, Cutlery, Articles for the Toilet, Desk, and Library, and Miscellaneous Notions, All or Partly of Gold or Silver—Namely, Boxes, Baskets, Dishes, Bottles, Cups and Saucers; Egg, Fruit, and Dessert Cups; Knives, Forks, and Ladles; Mounted Glassware; Tea, Coffee, Chocolate, Milk, and Flower Pots; Kettles, Flasks, Decanters, Cruets, Trays, Pans, Centerpieces, Candlesticks, Chandeliers, Sauce-Boats, Soup-Tureens, Sugar-Bowls, Mirrors, Cups for Night-Tables, Napkins, Plate-Mats, Desk-Lamps, Atomizers, Flower-Vases, Ice-Cream Freezers, Night-Tables; Receptacles for Water, Milk, and Chocolate; Brushes, Coffee-Strainers, Napkin-Rings, Pepper-Casters, Salt-Sprinklers, Salt-Shakers, Sugar-Sprinklers, Nail-Polishers, Inkstands, Whet-Nets, Graters, Pepper-Grinders, Paper-Cutters, Frankpapers, Penholders, Bouquet-Holders, Tidbit-Holders, Glass-Holders, Tea-Holders, Asparagus-Holders, Holders for Dental Articles, Electric-Lamp Holders, Match-Holders, Menu-Holders, Ash-Holders, Chocolate-Holders, Knife-Holders, Toilet Sets, Infants' Sets of Pins and Teething-Rings, Smoking Sets, Beer Sets, Breakfast Sets, Water Sets, Liqueur Sets, Tea Sets, Wine Sets, Desk Sets; Kitchen Sets (Consisting of Receptacles for Salt, Sugar, and the Like;) Champagne-Cases, and Cornucopias.

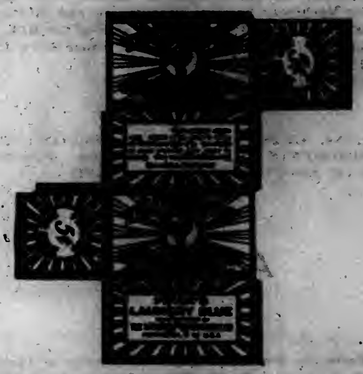
Claims use since July 28, 1919.

Ser. No. 127,183. (CLASS 43. THREAD AND YARN.) RANKIN MILLS INC., Gastonia, N. C. Filed Jan. 15, 1920.



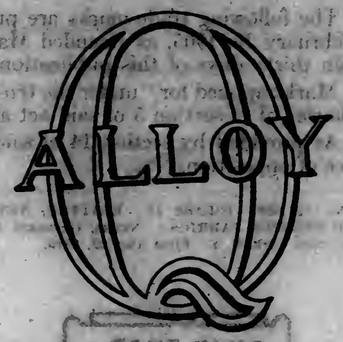
Particular description of goods.—Cotton Yarns.
Claims use since Jan. 1, 1920.

Ser. No. 132,065. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE STANDARD ULTRAMARINE CO., Huntington, W. Va. Filed May 5, 1920.



Consisting of the subject-matter of the six panels, panels one and three comprising the representation of a rooster upon a circular disk, the word "Frick's" on a semi-circular panel, and the words "Laundry Blue French Process" on an irregularly-shaped panel, all arranged upon a background of red, white, and blue rays emanating from the center of the panel; panel two comprising the words "Directions. Do not squeeze the bag. Shake in water until sky-blue color is obtained. It is not necessary to have a dark blue water. Stir water occasionally." upon an oblong panel upon a background of red, white, and blue rays; panel four comprising the words "Frick's Laundry Blue Manufactured by The Standard Ultramarine Co., Huntington, W. Va., U. S. A." upon an oblong panel upon a back ground of red, white, and blue rays emanating from the center thereof; panels five and six comprising the words "Frick's 5¢ Bag Blue" upon a disk upon a background of red, white, and blue rays emanating from the center thereof, no claim being made to the exclusive use of the representation of the carton nor to the exclusive use of the words "Laundry Blue French Process. Manufactured by. Huntington, W. Va., U. S. A. 5¢ Bag Blue Directions. Do not squeeze the bag. Shake in water until sky-blue color is obtained. It is not necessary to have a dark blue water. Stir water occasionally." apart from the mark as shown in the drawing.
Particular description of goods.—Laundry-Blue.
Claims use since Apr. 1, 1919.

Ser. No. 133,022. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) QUIGLEY FURNACE SPECIALTIES CO., INCORPORATED, New York, N. Y. Filed May 27, 1920.



Particular description of goods.—Carbureting Boxes and Pots.
Claims use since Mar. 31, 1920.

Ser. No. 133,681. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE KING MANUFACTURING COMPANY, St. Joseph, Mo. Filed June 11, 1920.



No claim is made to the representation of an electric-lamp fixture apart from the mark shown in the drawing.
Particular description of goods.—Electric Lamps and Electric-Lamp Fixtures.
Claims use since May, 1919.

Ser. No. 134,581. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK P. SCHOENE, Salem, Mass. Filed July 8, 1920.

BUG RID

Particular description of goods.—Insecticides.
Claims use since about 1900.

Ser. No. 135,007. (CLASS 22. PRINTS AND PUBLICATIONS.) RUDOLF LUNDELL, Minneapolis, Minn. Filed July 28, 1920.

UNCLE SAM

Particular description of goods.—A Monthly Publication.
Claims use since July 4, 1920.

Ser. No. 136,257. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) HADFIELDS LIMITED, Sheffield, England. Filed Aug. 19, 1920.

GALAHAD

Particular description of goods.—Projectiles, (Non-Explosive;) Armor-Piercing and High-Explosive Projectiles, Heavy Ordnance, Gun-Carriages, and Parts Thereof; Machine-Guns, Barrels, Locks, and Parts Thereof; Rifles, Fowling-Pieces, Barrels, Locks, and Parts Thereof.
Claims use since Feb. 22, 1916.

Ser. No. 137,051. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio. Filed Sept. 10, 1920.



The trade-mark is colored blue, red, and yellow, as indicated by the lining on the drawing.
Particular description of goods.—Insulating-Varnish and Material for Impregnating and Filling Electrical Cables and Coils.
Claims use since August, 1918.

Ser. No. 137,495. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANCIS J. ROGERS, Parkersburg, W. Va. Filed Sept. 22, 1920.



Particular description of goods.—Apple-Butter, Allspice, Asparagus, Buckwheat, Butter, Beef-Fat, Bread, Black Pepper, Biscuits, Bran-Flour, Bottled Fruits, Bottled Preserves, Bottled Vegetables, Bottled Soups, Cinnamon, Cloves, Canned Soups, Canned Boneless Chicken, Confections, Currants, Citron, Cornmeal, Candies, Chocolate, Chocolate Pastes, Canned Hominy, Canned Sauer-Kraut; Cotton-Seed Oil, (Substitute for Lard;) Cakes, Coffee, Cocoa, Clam-Chowder, Celery-Salt, Canned Corn, Cherries, Corn-Starch, Canned Milk, Canned Cream, Canned Vegetables, Canned Fruits, Chutney, Chow-Chow, Chilli Sauce, Corn-Flakes, Grains of Wheat, Cracked Wheat, Dried Fruits, Dried Beans, Dried Lima Beans, Dried Milk, Dessert-Jellies, Dried Vegetables, Dressed Poultry, Eggs, Egg-Noodles, Evaporated Milk, Fruit Jellies, Fruit Preserves, Fermented Milk, Fresh Apples, Food-Flavoring Extracts, Fresh Onions, Fig Paste, Fig Jam, Pressed Figs, Spiced Fruits, Ground Coffee, Grape-Fruit, Ginger-Root, Guava Jelly, Horse-Radish, Hominy Grits, India Relish, Ice-Cream, Ice-Cream Biscuits, Fruit Jams, Jelly-Powders, Lettuce, Lemons, Lard, Lemon Flavor, Macaroni, Mince-Meat, Marshmallow Paste, Malted Milk, Margarin; Mace, (Ground;) Fruit Marmalades, Maple-Syrup, Maple-Sugar, Mustard, Sweet Milk, Buttermilk, Milk-Chocolate, Nuts in Their Natural State, Nutmegs, Olives, Olive-Oil, Oatmeal, Oranges, Beans, Pickles, Prepared Mustard, Pearl-Barley; Popcorn, (in Its Natural or Popped State, But Not Candied;) Peanut-Butter, Prepared Potatoes, Pretzels, Pies, Fresh Peas, Fresh Pumpkins, Fresh Pineapples, Fresh Pears, Fresh Plums, Fresh Peppers, Cayenne Pepper, Paprika, Peeled Potatoes, Pancake-Flour, Preserved Vegetables, Fresh Prunes, Fresh Potatoes, Rice, Rolled Wheat, Rolled Oats, Raisins, Salad-Dressings, Spaghetti, Split Peas, Self-Rising Flour, Salted Peanuts, Shredded Cocoanut, Table-Syrup, Sago, Spices, Fresh Sweet Potatoes, Canned Succotash, Canned and Fresh String-Beans, Canned and Fresh Spinach, Sage, Canned and Fresh Tomatoes, Tomato Catsup, Tapioca, Tangerines, Tomato Soup, Thyme, Tumeric, Tomato Paste, Vinegar, Vermicelli, Vanilla Flavoring, Fresh Vegetables, Vegetable Cooking-Oil, Wheat-Flour, Worcester Sauce, Wheat-Flakes, White Pepper, Yeast.
Claims use since Aug. 9, 1920.

Ser. No. 137,605. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LLOYD A. DOUGLASS, Washington, D. C. Filed Sept. 25, 1920.



Particular description of goods.—A Soap, Preferably Powdered.
Claims use since about July 1, 1920.

[illegible]

Particular description of goods.—Time Signal Published Monthly.
Claims use since December, 1919.

Ser. No. 126,976. (CLASS 20. FURNITURE AND UPHOLSTERY.) KALIL FARAH, Sherbrooke, Quebec, Canada. Filed Oct. 4, 1920.

Farabed

Particular description of goods.—Bedsteads, Couches, Reclining-Chairs, and Hospital Bedsteads.
Claims use since May 6, 1920.

Ser. No. 127,918. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BUCH VAN SICLEN & Co., INC., San Francisco, Calif. Filed Oct. 5, 1920.



Particular description of goods.—Wheat-Flour.
Claims use since May 15, 1920.

ETABLISSEMENTS ROCHEVILLE & HOTAR, Courbevoie, France. Filed Oct. 6, 1920.

UNCLE SAM

Particular description of goods.—Automobiles.
Claims use since June 28, 1919.

Ser. No. 128,202. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RESCO MINING COMPANY, New York, N. Y. Filed Oct. 21, 1920.



Particular description of goods.—Salt.
Claims use since Jan. 1, 1887.

Ser. No. 128,251. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM M. COFFEY, Texarkana, Tex. Filed Nov. 6, 1920.



The picture disclosed in the drawing and specimens is a facsimile of the applicant's portrait.
Particular description of goods.—Rat-Poison.
Claims use since January, 1918.

Ser. No. 128,252. (CLASS 22. FILTERS AND REFRIGERATORS.) ALLEN MFG. CO., Toledo, Ohio. Filed Nov. 13, 1920. Under 10-year proviso.

ALLEN

Particular description of goods.—Filters, Water-Coolers, and Beverage-Coolers.
Claims use since 1892.

Ser. No. 140,838. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

DEFIANCE

Particular description of goods.—Bedspreads.
Claims use since 1901.

Ser. No. 141,937. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ATLANTA BARBERS' SUPPLY CO., Atlanta, Ga. Filed Jan. 7, 1921.



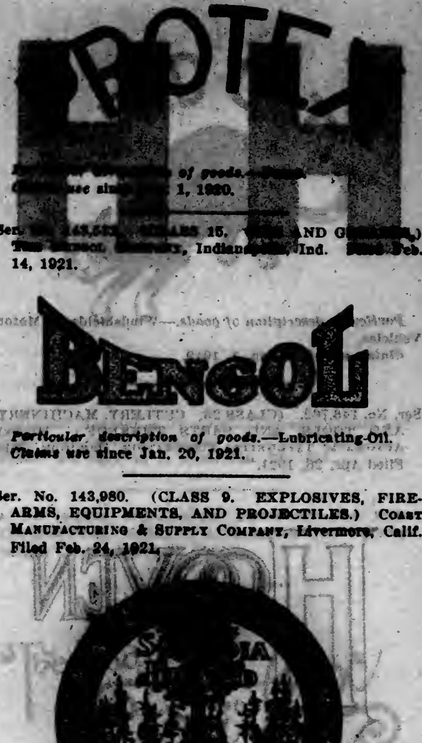
The words "Atlanta, Ga." disclaimed apart from the mark as shown.
Particular description of goods.—Perfumery, Face-Creams, and Toilet Waters.
Claims use since Apr. 16, 1918.

Ser. No. 142,195. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ATLANTA BARBERS' SUPPLY CO., Atlanta, Ga. Filed Jan. 13, 1921.

Gloss-Byer

Particular description of goods.—Hair-Tonics.
Claims use since Sept. 1, 1918.

Ser. No. 142,290. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PEERLESS FUSE WORKS, Cleveland, Ohio. Filed Jan. 20, 1921.



Particular description of goods.—[illegible]
Claims use since [illegible] 1, 1920.

Ser. No. 143,582. (CLASS 15. [illegible] AND GUNSMITHS.) THE VERNOY [illegible], Indianapolis, Ind. Filed Feb. 14, 1921.

BENGOL

Particular description of goods.—Lubricating-Oil.
Claims use since Jan. 20, 1921.

Ser. No. 143,980. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) COAST MANUFACTURING & SUPPLY COMPANY, Livermore, Calif. Filed Feb. 24, 1921.



No claim is made for the word "Brand" and the words "Livermore, California" apart from the mark shown.
Particular description of goods.—A Non-Electrical Safety-Fuse.
Claims use since Feb. 1, 1921.

Ser. No. 145,697. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLARENCE M. MCARTHUR, Detroit, Mich. Filed Apr. 4, 1921.

PYORRVENT

Particular description of goods.—Tooth Powder or Liquid.
Claims use since on or about July 17, 1920.

Ser. No. 146,625. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) Rayfield Windshield Wire Co., Chicago, Ill. Filed Apr. 23, 1921.



Particular description of goods.—Windshields for Motor-Vehicles.
Claims use since Jan. 1, 1919.

Ser. No. 146,762. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Hooven Automatic Typewriter Corporation, Hamilton, Ohio. Filed Apr. 26, 1921.



Particular description of goods.—Typewriter-Operating Machines, Perforating-Machines for Perforating Record-Strips for Use in Said Typewriter-Operating Machines, and Stands for Such Typewriter-Operating Machines and Perforating-Machines.
Claims use since June, 1915.

Ser. No. 146,901. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) The Federal Rubber Company, Cudahy, Wis. Filed Apr. 28, 1921.

BLUE PENNANT

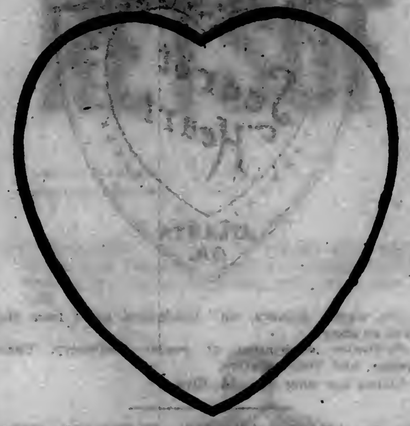
Particular description of goods.—Vehicle Tires, Reliners, Outside Tire-Sleeves, Inside Tire-Sleeves, Hose, and Tubing, All Made Wholly or Partly of Rubber.
Claims use since Jan. 1, 1916.

Ser. No. 147,259. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) James Lamont, Detroit, Mich. Filed May 6, 1921.



No claim is made to the words "North, South, East or West," also the word "Best," separate and apart from the mark shown.
Particular description of goods.—Liniment for Neuralgia, Rheumatism, Stiff Neck, Lumbago, Strained and Weak Muscles, Aching Feet, and Muscular Cramps.
Claims use since Mar. 30, 1921.

Ser. No. 147,260. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) John Morrell & Company, Ottumwa, Iowa. Filed May 7, 1921.



Particular description of goods.—Hams, Shoulders, Boneless Butts, Picnic-Hams, Bacon, Dried Beef, Tongues, Lard, Lard-Oil, Cheese, Butter, Eggs, Pork-Loin, Sausage, Souse, Tripe, Chilli con Carne, Corned Beef, Extract of Beef, Lunch-Tongue, Potted Animal Meat, Roast Beef, Luncheon-Meat, Hash, Ox-Tongue, Meat Loaf, Deviled Meat, Oxtail Soup, Marmalade, Vegetable Soup, Plum-Pudding, Pork and Beans, Mince-Meat, Brains, Feet, Hearts, Tenderloins, Hocks, and Sweetbreads.
Claims use on bacon since Mar. 6, 1897, on smoked meats; June 1, 1899, on cured meats; Aug. 15, 1899, on hams; January, 1900, on shoulders; September, 1914, on boneless butts; Aug. 15, 1899, on picnics; June 1, 1899, on bacon; May, 1902, on dried beef; November, 1902, on tongues; Apr. 8, 1899, on lard; Mar. 7, 1921, on lard-oil; June, 1899, on cheese; Oct. 13, 1899, on butter; Oct. 13, 1899, on eggs; November, 1913, on pork-loin; January, 1902, on sausage; October, 1897, on souse; November, 1902, on tripe; September, 1905, on chilli con carne; May, 1902, on corned beef; August, 1903, on extract of beef; May, 1902, on lunch-tongue; May, 1902, on potted meat; May, 1902, on roast beef; [illegible] on luncheon-meat; August, 1[illegible] on hash; [illegible] 1902, on ox-tongue; September, 1905, on meat loaf; May, 1897, on deviled meat; December, 1905, on oxtail soup; February, 1914, on marmalade; December, 1897, on vegetable soup; Oct. 13, 1899, on plum-pudding; December, 1905, on pork and beans; November, 1905, on mince-meat; October, 1916, on brains; November, 1905, on feet; November, 1902, on hearts; November, 1916, on tenderloins; November, 1902, on hocks; October, 1916, on sweetbreads.

Ser. No. 147,261. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) John Morrell & Company, Ottumwa, Iowa. Filed May 7, 1921.



Particular description of goods.—Hams, Shoulders, Boneless Butts, Picnic-Hams, Bacon, Dried Beef, Tongues, Lard, Lard-Oil, Cheese, Butter, Eggs, Pork-Loin, Sausage, Souse, Tripe, Chilli con Carne, Corned Beef, Extract of Beef, Lunch-Tongue, Potted Animal Meat, Roast Beef, Luncheon-Meat, Hash, Ox-Tongue, Meat Loaf, Deviled Meat, Oxtail Soup, Marmalade, Vegetable Soup, Plum-Pudding, Pork and Beans, Mince-Meat, Brains, Feet, Hearts, Tenderloins, Hocks, and Sweetbreads.
Claims use on bacon since Apr. 25, 1919; on hams, picnics, shoulders, dried beef, boneless butts, tongues, lard, cheese, butter, eggs, pork-loin, sausage, tripe, chilli con carne, corned beef, extract of beef, lunch-tongue, potted meat, roast beef, hash, ox-tongue, meat loaf, oxtail soup, marmalade, plum-pudding, pork and beans, mince-meat, and feet since Oct. 13, 1920; on lard-oil, souse, luncheon-meat, deviled meat, vegetable soup, brains, hearts, tenderloins, hocks, sweetbreads since Mar. 7, 1921.

Ser. No. 147,882. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Lorraine Mfg. and Importing Company, Grand Haven, Mich. Filed May 18, 1921.



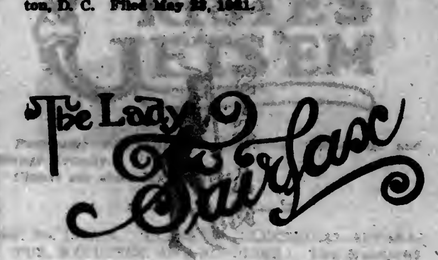
Particular description of goods.—Hair-Nets.
Claims use since Apr. 1, 1921.

Ser. No. 147,883. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) G. A. Roth Manufacturing Co., Hastings, Nebr. Filed May 18, 1921.



Particular description of goods.—Luggage-Carriers and Commercial Luggage-Standards.
Claims use since on or about Jan. 10, 1921.

Ser. No. 148,068. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) B. Harris & Co., Washington, D. C. Filed May 23, 1921.



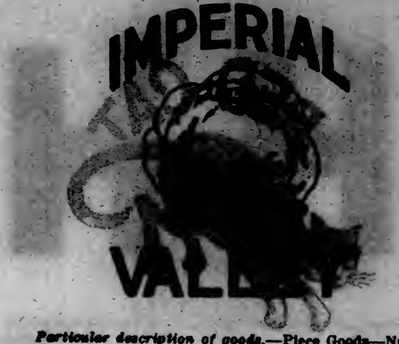
Particular description of goods.—Pearls.
Claims use since May 4, 1921.

Ser. No. 148,467. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) F. Wolkow & Sons, Louisville, Ky. Filed May 31, 1921.

AERO-CAP

Particular description of goods.—Caps for Radiators.
Claims use since about Jan. 28, 1921.

Ser. No. 148,712. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Gosney, Coates & Gosney Dry Goods Co., Los Angeles, Calif. Filed June 6, 1921.



Particular description of goods.—Piece Goods—Namely, Bleached Muslins, Sheets, Pillow-Cases.
Claims use since Nov. 24, 1920.

Ser. No. 148,806. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) James J. Klapon, Pittsburgh, Pa. Filed June 7, 1921.



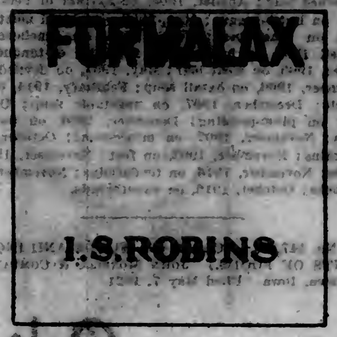
Particular description of goods.—Corn Remedies.
Claims use since Apr. 25, 1921.

Ser. No. 148,856. (CLASS 37. PAPER AND STATIONERY.) Standard Paper Company, Bellows Falls, Vt. Filed June 8, 1921.



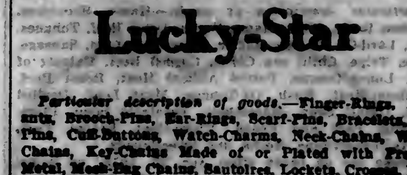
Particular description of goods.—Sealing-Tape.
Claims use since July 1, 1913.

Ser. No. 149,000. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) I. S. Robins Co., Chicago, Ill. Filed June 22, 1921.



Particular description of goods.—Rhubarb Laxative Medicinal Preparation.
Claims use since May 1, 1919.

Ser. No. 149,276. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) Harold G. Eggman, Providence, R. I. Filed June 17, 1921.



Particular description of goods.—Finger-Rings, Pendants, Brooch-Pins, Ear-Rings, Scarf-Pins, Bracelets, Bar-Pins, Cuff-Buttons, Watch-Charms, Neck-Chains, Watch-Chains, Key-Chains Made of or Plated with Precious Metal, Mesh-Bag Chains, Sautoires, Lockets, Crosses, Necklaces, Silver Knives, Silver Forks, Silver Spoons, Silver Dishes, Silver Vases, and Combs, Brushes, and Mirrors Ornamented or Plated with Precious Metal.
Claims use since Apr. 13, 1921.

Ser. No. 149,323. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) George S. Daugherty, Blue River, Wis. Filed June 18, 1921.



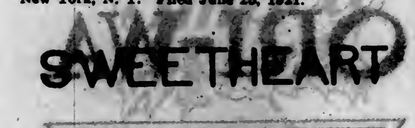
Particular description of goods.—Spark-Plugs.
Claims use since Apr. 20, 1921.

Ser. No. 149,637. (CLASS 26. MUSICAL INSTRUMENTS AND SUPPLIES.) Overmeyer Piano Company, Philadelphia, Pa. Filed June 24, 1921.



No claim being made to the representation of a piano apart from the mark shown in the drawing.
Particular description of goods.—Pianos and Player-Pianos.
Claims use since on or about June 1, 1921.

Ser. No. 149,637. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) Gross, Zolbo & Roman Inc., New York, N. Y. Filed June 25, 1921.



Particular description of goods.—Finger-Rings and Mountings Therefor.
Claims use since May 1, 1921.

Ser. No. 149,759. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) Logan Coal Company, Inc., Norfolk, Va., and Columbus, Ohio. Filed June 28, 1921.



Particular description of goods.—Coal.
Claims use since June 17, 1921.

Ser. No. 149,769. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) Logan Coal Company, Inc., Norfolk, Va., and Columbus, Ohio. Filed June 28, 1921.



Particular description of goods.—Coal.
Claims use since June 17, 1921.

Ser. No. 149,953. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. H. [illegible] Co., Wilmington, Del. Filed July 2, 1921.

Particular description of goods.—Dyestuff Intermediates.
Claims use since May, 1919.

Ser. No. 149,961. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Wiley G. Geiger, Summerton, S. C. Filed July 2, 1921.

Particular description of goods.—A Chill-Tonic and Mange Remedy.
Claims use since May 1, 1921.

Ser. No. 150,076. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) The Magnavox Co., Oakland, Calif. Filed July 6, 1921.



No claim is made to the representation of an amplifying device, apart from the mark shown.
Particular description of goods.—Electrical Sound-Amplifying Devices, Loud-Speaking Telephones, Marine Tele-

Claims use since [illegible]

Ser. No. 150,066. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Bernhard Ulmann Co. Inc., New York, N. Y. Filed July 7, 1921.

LATTICEWEAVE

Particular description of goods.—Woven Textile Fabrics in the Piece Used as Foundation Material for Art-Needlework.
Claims use since June 27, 1921.

Ser. No. 150,275. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Kal-Kal Laboratories, Inc., Buffalo, N. Y. Filed July 12, 1921.



Particular description of goods.—Salves to be Used for Wounds, Sores, Skin Troubles, and Infections.
Claims use since Apr. 30, 1921.

Ser. No. 150,280. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Martin Soap Company, Inc., New Orleans, La. Filed July 12, 1921.



Particular description of goods.—Shampoo Preparation.
Claims use since June 22, 1921.

Ser. No. 150,[illegible]. (CLASS 40. [illegible] AND [illegible].) [illegible] Company, Sheridan, Mo. Filed July 12, 1921.



Particular description of goods.—Stock and Poultry Food—Namely, Hog-Buttonge, Cattle-Thickener, Calf-Developer, Pig-Developer, Milk-Maker, Work Food, Egg-Maker, and Chick-Developer.
Claims use since June 23, 1921.

Ser. No. 150,304. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Susan Evelyn Brown, Harrow, England. Filed July 13, 1921.

KENMA

Particular description of goods.—Face Creams and Powders, Grease Paints and Make-Up, and Substitutes Therefor for Theatrical and Cinematographic Purposes.
Claims use since Sept. 29, 1920.

Ser. No. 150,370. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Mrs. W. H. Reynolds, Bremerton, Wash. Filed July 14, 1921.

ORI-WA

THREE POINTS TO HEALTH S12

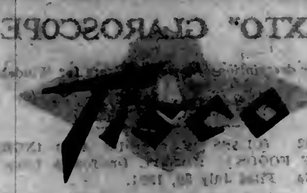
Particular description of goods.—A General Tonic and Blood-Purifier.
Claims use since Apr. 1, 1921.

Ser. No. 150,444. (CLASS 37. PAPER AND STATIONERY.) Clinton B. Grant Company, Somerville, Mass. Filed July 16, 1921.

VISE

The word "Vise."
Particular description of goods.—Paper-Clips.
Claims use since April, 1900.

Ser. No. 150,462. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) The Tisco Company, Chicago, Ill. Filed July 16, 1921.



Particular description of goods.—Flavoring Extracts for Food and Essential Oil for Food Purposes.
Claims use since 1915.

Ser. No. 150,660. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) California Cotton Mills Company, Oakland, Calif. Filed July 20, 1921.



Particular description of goods.—Fringed, Hemmed, and Bath Cloth Towels; Cloth Toweling in the Belt, Washcloths, Cotton Crash, Cotton Damask, Cotton Cloth and Burlap in the Piece; Table Cloths and Napkins of Linen, Woolen Comforters, and Fleece-Knitting.
Claims use since Nov. 30, 1914.

Ser. No. 150,713. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Seaboard Textile Co. Inc., New York, N. Y. Filed July 20, 1921.

PECKFORD

Particular description of goods.—Cotton Fabrics in the Piece.
Claims use since February, 1921.

Ser. No. 150,721. (CLASS 37. PAPER AND STATIONERY.) Clinton B. Alexander, Washington, D. C. Filed July 21, 1921.



The words "Trade Mark Reg. U. S. Pat. Off." and "Loose Leaf Binders" are hereby disclaimed.
Particular description of goods.—Loose-Leaf Binders, Sheets, and Posts or Thongs Therefor.
Claims use since July 20, 1921.

Ser. No. 150,722. (CLASS 39. CLOTHING.) The Bluff City Shoe Company, Hannibal, Mo. Filed July 21, 1921.

MARK TWAIN

Particular description of goods.—Shoes of Leather, Canvas, Rubber, or Combination of Such Material.
Claims use since Jan. 1, 1921.

Ser. No. 150,790. (CLASS 39. CLOTHING.) The Bluff City Shoe Company, Hannibal, Mo. Filed July 22, 1921.

Lotta More

Particular description of goods.—Shoes of Leather, Canvas, Rubber, or Combination of Such Material.
Claims use since Jan. 1, 1921.

Ser. No. 150,848. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Cossett Bros. Co., Paterson, N. J., and New York, N. Y. Filed July 28, 1921.



Particular description of goods.—Ribbons in the Piece.
Claims use since June 2, 1921.

Ser. No. 150,943. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) JOHN I. THORNCROFT & CO. LIMITED, Westminster, England. Filed July 25, 1921.

THORNCROFT

Particular description of goods.—Commercial Motor-Vehicles—Namely, Trucks and Automobiles Used for Carrying Merchandise or the Like.
Claims use since 1904.

Ser. No. 150,976. (CLASS 37. PAPER AND STATIONERY.) JOHN SOPER, Cincinnati, Ohio. Filed July 26, 1921.

Tablelin

Particular description of goods.—Paper for Household Use—Namely, Towels, Napkins, and Tablecloths.
Claims use since May, 1921.

Ser. No. 150,993. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) BARNET LEATHER CO. INC., New York, N. Y. Filed July 27, 1921.

VANRUBA

Particular description of goods.—Calf-Leather.
Claims use since Jan. 1, 1921.

Ser. No. 151,069. (CLASS 37. PAPER AND STATIONERY.) GEORGE M. SACHS, New York, N. Y. Filed July 28, 1921.

BUDGET BUSINESS BUREAU

Particular description of goods.—Prepared Business-Charts.
Claims use since June 1, 1920.

Ser. No. 151,099. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) [illegible] Brooklyn, New York. Filed July 29, 1921.

"BEXTO" GLAROSCOPE

Particular description of goods.—[illegible] for Windshields of Vehicles.
Claims use [illegible]

Ser. No. 151,142. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BARRETT, DENTON & LYNN CO., Dalton, Ga. Filed July 30, 1921.

MISS BILLY

Particular description of goods.—Wheat-Flour.
Claims use since July 16, 1921.

Ser. No. 151,148. (CLASS 22. CLOTHING.) CHICAGO BELTING COMPANY, Chicago, Ill. Filed July 30, 1921.

Reliance

Particular description of goods.—Belting.
Claims use since [illegible]

Ser. No. 151,202. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) [illegible] Company, Cedar Rapids, Iowa. Filed Aug. 1, 1921.

Particular description of goods.—Mineral Feed for Animals and Poultry.
Claims use since June 21, 1921.

Ser. No. 151,316. (CLASS 37. PAPER AND STATIONERY.) THE GENERAL MANUFACTURING COMPANY, Sioux City, Iowa. Filed Aug. 3, 1921.

Kaligraf

Particular description of goods.—Lead-Pencils Having Means for Feeding Forward the Lead.
Claims use since May 16, 1921.

Ser. No. 151,359. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) [illegible] LAMP COMPANY, New Orleans, La. Filed Aug. 4, 1921.

Particular description of goods.—Lamps. (Incandescent,) and Lamp-Bulbs.
Claims use [illegible]

Ser. No. 151,467. (CLASS 22. CLOTHING.) F. M. HOYT SHOE COMPANY, Manchester, N. H. Filed Aug. 5, 1921.

LIKE DADDY'S

Particular description of goods.—Leather Boots and Shoes.
Claims use since 1916.

Ser. No. 151,544. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) WM. R. JOHNSTON MFG. CO., Chicago, Ill. Filed Aug. 8, 1921.

COPSPOTTER

Particular description of goods.—Rear-View Mirrors.
Claims use since April, 1921.

Ser. No. 151,572. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLEMENT BYRD, Smithfield, N. C. Filed Aug. 9, 1921.

Particular description of goods.—Headache Remedy and a Preparation for the Relief of Neuralgia, Rheumatism, Backache, Periodic Pains of Women, Colds and Grippe, and Kindred Ailments.
Claims use since Apr. 1, 1921.

Ser. No. 151,607. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE CENTRAL BRASS & FIXTURE COMPANY, Springfield, Ohio. Filed Aug. 11, 1921.

BUCKEYE

Particular description of goods.—Bumpers for Automobiles, Side Wind-Deflectors for Automobiles, Automobile-Tire Holders, Vehicle-Spring Repairers for Clamping Broken Spring-Leaves, and Vehicle Shock-Absorbers.
Claims use since on or about Jan. 1, 1910.

Ser. No. 151,807. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN NOVAK COMPANY, Chicago, Ill. Filed Aug. 15, 1921.

LIFE-JOY

Particular description of goods.—Blood-Tonic Tablets.
Claims use since Jan. 1, 1921.

Ser. No. 151,821. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) [illegible], Uzwil, Switzerland. Filed Aug. 16, 1921.

Particular description of goods.—Ventilators, Drying Apparatus for Paste Goods, Steam-Driers for Brick and Tile Works, Channel-Driers for Brick and Tile Works.
Claims use since Oct. 21, 1919.

Ser. No. 151,842. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN H. NICKODEMUS, Saginaw, Mich. Filed Aug. 16, 1921.

FLAXO

Particular description of goods.—A Preparation for the Treatment of Blood-Poisoning, Boils, Carbuncles, Ulcers, Burns, Poisons, Infectious, Skin Diseases, and Chapped Hands.
Claims use since July 1, 1921.

Ser. No. 151,846. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CARL V. PERSSON, Pawtucket, R. I. Filed Aug. 16, 1921.



Particular description of goods.—Rattles for Babies and Children, Human-Figure Toys, Animal-Figure Toys, Water Toys, Sounding Toys, Toy Balloons, Dice-Boxes, Bubble-Pipes and Bubble-Outfits, Toy Crayon-Boxes, Jump-Rope for Children, Playing-Cards, Toy Modeling Sets, Tops, Noah's Arks, Babies' Play Sets, and Ring Games.
Claims use since June, 1917.

Ser. No. 151,849. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PENNA. POULTRY FARM REMEDIES CO., Lancaster, Pa. Filed Aug. 16, 1921.

LA-MORE

Particular description of goods.—Poultry Tonics and Regulators.
Claims use since July 15, 1920.

Ser. No. 151,866. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JEAN CANALIS, Findlay, Ohio. Filed Aug. 17, 1921.

Neuron

Particular description of goods.—A Salve for Use in the Treatment of Neuralgia, Rheumatism, Spasmodic Croup, and Colds, and for a Syrup of Iodin Compound.
Claims use since July 12, 1921.

Ser. No. 151,868. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE P. H. & F. M. ROOTS CO., Connersville, Ind. Filed Aug. 17, 1921. Under ten-year proviso.



Particular description of goods.—Rotary Blowers, Gas-Pumps, Water-Pumps, and Vacuum-Pumps.
Claims use since 1859.

Ser. No. 151,882. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) MAX STRUSS & SONS CO., Inc., New York, N. Y. Filed Aug. 17, 1921.



No claim being made to the words "Cigarette Papers, Extra Superieur, Qualité Surfine, Imported and Registered" shown on the drawing. The Greek and Turkish wording translated means "Black Sea Cigarette Paper."
Particular description of goods.—Cigarette-Papers.
Claims use since June 23, 1916.

Ser. No. 151,947. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. F. HOUGHTON & Co., Philadelphia, Pa. Filed Aug. 19, 1921.

ADVANCE
CARBURIZER

No claim being made to the word "Carburizer" apart from the mark as shown.
Particular description of goods.—Surface-Hardening Powders for Steel.
Claims use since July 1, 1921.

Ser. No. 151,956. (CLASS 37. PAPER AND STATIONERY.) JORDAN MARSH COMPANY, Boston, Mass. Filed Aug. 20, 1921.

"Avona"

Particular description of goods.—Fountain-Pens and Lead-Pencils.
Claims use since June 20, 1920.

Ser. No. 152,001. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGIA CHEMICAL, Birmingham, Ala. Filed Aug. 22, 1921.

STANG-RICH

Particular description of goods.—Hair-Growers, Hair-Dressing Oils, and Perfumes.
Claims use since May 25, 1921.

Ser. No. 152,064. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHERAMY, INCORPORATED, New York, N. Y. Filed Aug. 23, 1921.

CHARMIDES

Particular description of goods.—Brilliantine, Face-Powder, Face-Cream, Toilet Water, Perfume, Sachet and Talcum Powder, Rouge.
Claims use since July 15, 1921.

Ser. No. 152,081. (CLASS 12. CONSTRUCTION MATERIALS.) MORWIN PRODUCTS CO., Inc., New York, N. Y. Filed Aug. 23, 1921.

KEMISOL

Particular description of goods.—Waterproofing Compound for Use in Connection with Stone, Brick, Cement, Concrete, and the Like.
Claims use since on or about Mar. 1, 1920.

Ser. No. 152,082. (CLASS 12. CONSTRUCTION MATERIALS.) MORWIN PRODUCTS CO., Inc., New York, N. Y. Filed Aug. 23, 1921.

PETROFLUID

Particular description of goods.—Waterproofing Compound for Use in Connection with Stone, Brick, Cement, Concrete, and the Like.
Claims use since on or about July 1, 1916.

Ser. No. 152,087. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD L. MITTELSTADT, New York, N. Y. Filed Aug. 23, 1921.

Parfums Desirée

No claim being made to the word "Parfums" apart from the mark as shown.
Particular description of goods.—Perfume Extracts and Toilet Waters.
Claims use since July 5, 1921.

Ser. No. 152,199. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE PERMANENT WAVE MACHINE AND SUPPLY CORPORATION, New York, N. Y. Filed Aug. 24, 1921.

KEEN

Particular description of goods.—Electrical Hair-Waving Appliances.
Claims use since July 1, 1920.

Ser. No. 152,202. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WALTER S. CHABAK, New York, N. Y. Filed Aug. 24, 1921.

VIGORUB

Particular description of goods.—A Lotion for External Use on the Face and Body and for a Liniment for the Treatment and Relief of Muscular Pains, Rheumatism, Stiff Joints and Muscles.
Claims use since Mar. 1, 1921.

Ser. No. 152,243. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) REED BYRON, New York, N. Y. Filed Aug. 27, 1921.

HUJARVIS

Particular description of goods.—All Kinds of Perfumes.
Claims use since November, 1920.

Ser. No. 152,325. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GENERAL ELECTRIC COMPANY, Schenectady, N. Y. Filed Aug. 29, 1921.

PLIOTRON

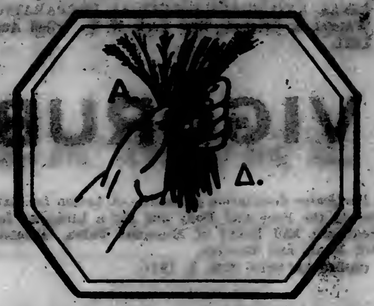
Particular description of goods.—Vacuum-Tubes.
Claims use since February, 1918.

Ser. No. 152,363. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Hanson & Co, New York, N. Y. Filed Aug. 29, 1921.

YEASTONE

Consisting of the word mark.
Particular description of goods.—Extract of Yeast for Medicinal Purposes.
Claims use since Feb. 28, 1921.

Ser. No. 152,364. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALEXANDRA C. DOUROPOULOS, Arlington, Mass. Filed Aug. 30, 1921.



Particular description of goods.—Medicinal Preparation for Diabetes.
Claims use since July 1, 1921.

Ser. No. 152,376. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MERCK & CO., Rahway, N. J. Filed Aug. 30, 1921.

PEROXOIDS

Particular description of goods.—Tablets for Preparing Hydrogen-Peroxid Solution.
Claims use since Aug. 13, 1921.

Ser. No. 152,377. (CLASS 12. CONSTRUCTION MATERIALS.) MORENE PRODUCTS CO., INC., New York, N. Y. Filed Aug. 30, 1921.

MORENE

Particular description of goods.—A Waterproofing Compound for Use in Connection with Stone, Brick, Cement, Concrete, and the Like.
Claims use since on or about July 1, 1916.

Ser. No. 152,436. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, AND SADDLERY, AND POCKETBOOKS.) Hanson & Platt, New York, N. Y. Filed Aug. 31, 1921.

AMBASSADOR

Particular description of goods.—Writing-Cases.
Claims use since June 4, 1921.

Ser. No. 152,537. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ERNEST M. BOGAERT, San Jacinto, Calif. Filed Sept. 3, 1921.

OBECA

Particular description of goods.—Face-Cream.
Claims use since June 1, 1920.

Ser. No. 152,563. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) R. H. Buttercup & Co., St. Louis, Mo. Filed Sept. 3, 1921.

HEADINE

Particular description of goods.—A Medicinal Preparation Used for the Relief of Headache, Neuralgia, Fever, Pain, and Influenza.
Claims use since 1895.

Ser. No. 152,709. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRY COOK, London, England. Filed Sept. 8, 1921.

DRYDO

Particular description of goods.—Powder for Destroying Beetles and Cockroaches.
Claims use since Nov. 26, 1920.

Ser. No. 152,702. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOPE COMPANY, Providence, R. I. Filed Sept. 8, 1921.



Particular description of goods.—White and Bleached Cotton Goods in the Piece.
Claims use since on or before Apr. 1, 1921.

Ser. No. 152,772. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SANOZYM INCORPORATED, New York, N. Y. Filed Sept. 9, 1921.

SANOZYM

Particular description of goods.—A Dentifrice in the Form of a Paste, a Wash, or a Powder.
Claims use since Aug. 20, 1921.

Ser. No. 152,821. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Y. H. WATTS & CO. INC., Trenton, N. J. Filed Sept. 10, 1921.

HYD--REX

Particular description of goods.—A Compound for Treating Cholera in Fowls.
Claims use since June 1, 1921.

Ser. No. 152,822. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Y. H. WATTS & CO.-INC., Trenton, N. J. Filed Sept. 10, 1921.

KUR-HO

Particular description of goods.—Liquid Compound for Treating Hog-Cholera.
Claims use since June 1, 1921.

Ser. No. 152,855. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MERRIMAC DRUG COMPANY, Inc., New York, N. Y. Filed Sept. 12, 1921.

IDIPO

Particular description of goods.—Antiseptics.
Claims use since on or about July 15, 1921.

Ser. No. 152,883. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CORBETT BROTHERS CO., Paterson, N. J., and New York, N. Y. Filed Sept. 13, 1921.



Particular description of goods.—Ribbons in the Piece.
Claims use since June 2, 1921.

Ser. No. 152,892. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) INTERNATIONAL CONSOLIDATED CHEMICAL CORPORATION, INC., New York, N. Y. Filed Sept. 13, 1921.

ANTOX OTOL

Particular description of goods.—Medicinal Preparation for Intestinal Toxemia.
Claims use since June 20, 1921.

Ser. No. 152,939. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) INTERNATIONAL COMMERCIAL CHEMICAL CORPORATION, INC., New York, N. Y. Filed Sept. 13, 1921.

ANTOMOL

Particular description of goods.—Medicinal Preparation for Intestinal Tremnia.
Claims use since June 20, 1921.

Ser. No. 152,941. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ZEETA COMPANY, New York, N. Y. Filed Sept. 14, 1921.

ZEETA

Particular description of goods.—Powdered Deodorant.
Claims use since July 30, 1921.

Ser. No. 153,006. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) MATHAUM BROS., INC., New York, N. Y. Filed Sept. 19, 1921.

Anniversary

Particular description of goods.—Pearls.
Claims use since Aug. 1, 1921.

Ser. No. 153,171. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMERICAN WHOLESALE CORPORATION (BALTIMORE BARGAIN HOUSE), Baltimore and Cumberland, Md. Filed Sept. 21, 1921.

Lady Baltimore

Particular description of goods.—Hair-Nets.
Claims use since Aug. 18, 1921.

Ser. No. 153,182. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CYRUS R. HOYER, Baltimore, Md. Filed Sept. 21, 1921.

SUN-KISS

Particular description of goods.—Soap.
Claims use since Feb. 20, 1921.

Ser. No. 153,279. (CLASS 37. PAPER AND STATIONERY.) THE ART METAL WORKS, Newark, N. J. Filed Sept. 24, 1921.

LITE-O-RITE

Particular description of goods.—Combination Pocket-Pencils and Pocket-Lighters.
Claims use since Feb. 1, 1918.

Ser. No. 153,318. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) STEEL WINGS COMPANY, Chicago, Ill. Filed Sept. 24, 1921.

STEELWINGS

Particular description of goods.—Vehicle Springs, Shock-Absorbers, and Recoil-Checks.
Claims use since on or about Jan. 10, 1921.

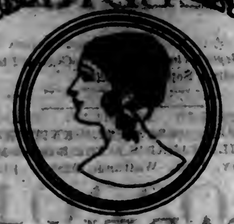
Ser. No. 153,343. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) EAGLE MOTOR TRUCK CORPORATION, St. Louis, Mo. Filed Sept. 26, 1921.

EAGLE

Particular description of goods.—Automobile Motor-Trucks.
Claims use since Mar. 1, 1920.

Ser. No. 153,522. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MAGUIRE & CO., INC., New York, N. Y. Filed Sept. 28, 1921.

RICABELLA



The picture of a girl shown in the mark is fanciful.
Particular description of goods.—Gray Sheetings, Gray Drills, Gray Jeans, Gray Twills, Gray Osnaburgs, Gray Ducks, Gray-Warp Sateens, Gray Print-Cloths, Bleached Sheetings, Bleached Drills, Bleached Jeans, Bleached Twills, Bleached Osnaburgs, Bleached Ducks, Bleached-Warp Sateens, Plain-Colored Sheetings, Plain-Colored Drills, Plain-Colored Ducks, Plain-Colored Organdies, Plain-Colored Lawns, Plain-Colored Percales, Plain-Colored Voiles, Plain-Colored Poplins, Plain-Colored Dress Goods, Fancy White Goods, Fancy Crape, Fancy Corded Goods, Fancy Poplins, Fancy Dress Goods, Striped Tickings, Fancy Tickings, Mantilla-Cloth, Blue Serge, Buntings, Hollands, Piques, Nainsooks, White Madras Shirtings, and Khaki-Cloth, All in the Piece.
Claims use since Feb. 15, 1921.

Ser. No. 153,528. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANDARD OIL COMPANY, (INCORPORATED IN NEW JERSEY), Bayonne, N. J., and New York, N. Y. Filed Sept. 29, 1921.

IX-OL

Particular description of goods.—Ammonium Sulfolchthyolate.
Claims use since Aug. 30, 1921.

Ser. No. 153,549. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. L. HUNT, Ponca City, Okla. Filed Sept. 30, 1921.

IT WILL

Particular description of goods.—Hair-Tonic and Hair-Restorer.
Claims use since Sept. 1, 1921.

Ser. No. 153,572. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TRIUMPH MFG. CO., Philadelphia, Pa. Filed Sept. 30, 1921.

ARABO

Particular description of goods.—Bath-Tablets in the Nature of Water Softeners and Purifiers.
Claims use since 1917.

Ser. No. 153,651. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOUIS F. EDWARDS, New York, N. Y. Filed Oct. 3, 1921.

DUBOTH

Particular description of goods.—A Composition for Preventing and Removing Boiler Incrustations.
Claims use since about March, 1920.

Ser. No. 153,669. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FREDERIC L. GREEN, New York, N. Y. Filed Oct. 3, 1921.

PROTECT-O-PART

Particular description of goods.—Metal-Preservatives.
Claims use since Sept. 1, 1921.

Ser. No. 153,726. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOOD RIVER SPRAY COMPANY, Hood River, Oreg. Filed Oct. 4, 1921.

APHOIL

Particular description of goods.—Concentrated Spray Composition for Spraying Vegetation, After Proper Dilution, to Destroy Insects and the Like.
Claims use since January, 1920.

Ser. No. 153,788. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHN FOSTER MCELHINNY, Dublin, Ireland. Filed Oct. 4, 1921.



RIALTO

No claim is made to the word "Dublin" apart from the mark shown.

Particular description of goods.—Woolen Piece Goods.
Claims use since 1905.

Ser. No. 153,725. (CLASS 39. MERCHANDISE NOT OTHERWISE CLASSIFIED.) ARCHER STRAUSS RUBBER COMPANY, Framingham, Mass. Filed Oct. 5, 1921.

Medic

Particular description of goods.—Waterproof Fabric.
Claims use since about Mar. 16, 1920.

Ser. No. 153,811. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) Fahrney & Co. Inc., New York, N. Y. Filed Oct. 6, 1921.

"Mona"

Particular description of goods.—Artificial or Imitation Pearls.
Claims use since Mar. 1, 1921.

Ser. No. 153,915. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE BOSTON MANUFACTURING COMPANY, 2001, Waltham, Mass. Filed Oct. 10, 1921.

NUFAST

Particular description of goods.—Cotton Piece Goods.
Claims use since Sept. 21, 1921.

Ser. No. 153,916. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE BOSTON MANUFACTURING COMPANY, 2001, Waltham, Mass. Filed Oct. 10, 1921.

BELDRES

Particular description of goods.—Cotton Piece Goods.
Claims use since Sept. 21, 1921.

Ser. No. 153,917. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE BOSTON MANUFACTURING COMPANY, 2001, Waltham, Mass. Filed Oct. 10, 1921.

PARELLE

Particular description of goods.—Cotton Piece Goods.
Claims use since Sept. 21, 1921.

Ser. No. 153,970. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo. Filed Oct. 11, 1921.

Elyfyne

Particular description of goods.—Ginghams, Cotton Piece Goods.
Claims use since Feb. 12, 1921.

Ser. No. 153,975. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE GUARANTEE HAIR AND NOVELTY WORKS, New York, N. Y. Filed Oct. 11, 1921.



The lines shown in the drawing indicate shading only. The figures of the hands and arm shown in the drawing are the finished creation of an artist. The right to the exclusive use of the words "Hair Net Hand Made of Invisible Real Human Hair" are disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Hair-Nets.
Claims use since Aug. 1, 1921.

Ser. No. 153,976. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE GUARANTEE HAIR AND NOVELTY WORKS, New York, N. Y. Filed Oct. 11, 1921.

NORMA

Particular description of goods.—Hair-Nets.
Claims use since Aug. 1, 1921.

Ser. No. 154,022. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Wagen & Co., New York, N. Y. Filed Oct. 12, 1921.

BLOSSOM

Consisting of the word "Blossom."
Particular description of goods.—Hair-Nets.
Claims use since Aug. 22, 1921.

Ser. No. 154,062. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NATIONAL TRADING COMPANY, Chicago, Ill. Filed Oct. 13, 1921.

NATRACO

Particular description of goods.—Hair-Nets.
Claims use since July 15, 1921.

Ser. No. 154,071. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE TEXAS WAGON WORKS, Inc., Houston, Tex. Filed Oct. 13, 1921.



Particular description of goods.—Truck-Bodies.
Claims use since about Jan. 1, 1912.

Ser. No. 154,116. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ARMAND V. BLATZ, New York, N. Y. Filed Oct. 15, 1921.

DORIS

Particular description of goods.—Hair-Nets.
Claims use since 1917.

Ser. No. 154,124. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORSSA RUBBER MANUFACTURING CO., Philadelphia, Pa. Filed Oct. 15, 1921.

PALL MALL

Particular description of goods.—Golf-Balls.
Claims use since July, 1921.

Ser. No. 154,129. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE DAYTON COLOR WORKS COMPANY, Dayton, Ohio. Filed Oct. 15, 1921.

REST-TONE

Particular description of goods.—Wall-Paint.
Claims use since Mar. 25, 1921.

Ser. No. 154,133. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 15, 1921.

Spongeen

Particular description of goods.—Woolen Piece Goods.
Claims use since Sept. 25, 1921.

Ser. No. 154,134. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 15, 1921.

Selena

Particular description of goods.—Woolen Piece Goods.
Claims use since Sept. 15, 1921.

Ser. No. 154,135. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 15, 1921.

Juina

Particular description of goods.—Woolen Piece Goods.
Claims use since Sept. 15, 1921.

Ser. No. 154,126. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 15, 1921.

Hera

Particular description of goods.—Woolen Piece Goods.
Claims use since Sept. 15, 1921.

Ser. No. 154,127. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 15, 1921.

Valetta

Particular description of goods.—Woolen Piece Goods.
Claims use since Sept. 15, 1921.

Ser. No. 154,128. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 15, 1921.

Oriona

Particular description of goods.—Woolen Piece Goods.
Claims use since Sept. 15, 1921.

Ser. No. 154,151. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO. INC., New York, N. Y. Filed Oct. 15, 1921.

DOVE DOWN

Particular description of goods.—Silk Piece Goods.
Claims use since March, 1919.

Ser. No. 154,177. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CALIFORNIA COTTON MILLS COMPANY, Oakland, Calif. Filed Oct. 17, 1921.

GOLDEN WEST



Particular description of goods.—Burlap.
Claims use since Jan. 10, 1912.

Ser. No. 154,191. (CLASS 12. CONSTRUCTION MATERIALS.) G. F. HORTON, Houston, TEX. Filed Oct. 17, 1921.

FILLRITE

Particular description of goods.—An Asphalt Preparation Used in Making Expansion-Joints in Concrete Roadways, Walks, and other Concrete Structures.
Claims use since about July 1, 1921.

Ser. No. 154,231. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MAYFLOWER WORSTED COMPANY, Allegton, Mass. Filed Oct. 17, 1921.

MAYFLOWER

Particular description of goods.—Worsted Goods for Men's Suiting.
Claims use since Apr. 1, 1920.

Ser. No. 154,243. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHARLES K. THAU, New York, N. Y. Filed Oct. 17, 1921.

Look Dear

Particular description of goods.—Hair-Nets.
Claims use since June 1, 1921.

Ser. No. 154,244. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHARLES K. THAU, New York, N. Y. Filed Oct. 17, 1921.

Lady Grand

Particular description of goods.—Hair-Nets.
Claims use since June 1, 1921.

Ser. No. 154,265. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) AMY M. ESHLEMAN, Lancaster, Pa. Filed Oct. 18, 1921.

AIMÉE

Particular description of goods.—Dolls.
Claims use since Sept. 22, 1921.

Ser. No. 154,284. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OTTO PETERSON, Fort Bragg, Calif. Filed Oct. 18, 1921.

O—P

Particular description of goods.—Hair-Tonics.
Claims use since Feb. 6, 1921.

Ser. No. 154,333. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ROBERT A. SUFFERN, New York, N. Y. Filed Oct. 19, 1921.



HEDJAZ

Particular description of goods.—Cotton Piece Goods.
Claims use since June 1, 1921.

Ser. No. 154,372. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) J. F. LAZIER MFG. CO., St. Louis, Mo. Filed Oct. 20, 1921.

LAMCO

Particular description of goods.—Metal Bottle-Caps.
Claims use since June, 1920.

Ser. No. 154,445. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) E. F. GLADDING & CO. INC., South Otselic, N. Y. Filed Oct. 22, 1921.



No claim being made to the exclusive use of the words "Waterproof Braided Silk, First Quality, Extra Strength, The, Line, No. E. Test 30, 25 Yds., Once Used Always Used," apart from the mark as shown on the drawing.
Particular description of goods.—Waterproof Braided Silk Fishing-Lines.
Claims use since Aug. 22, 1912.

Ser. No. 154,476. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE GEO. H. BOWMAN COMPANY, Cleveland, Ohio. Filed Oct. 24, 1921.

"LIKE - MOTHER'S"

Particular description of goods.—Toy Tea and Cooking Sets.
Claims use since June, 1916.

Ser. No. 154,477. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BIANCHINI, FÉRIER, Lyon, France. Filed Oct. 24, 1921.

MONTANIA

Particular description of goods.—Piece Goods of Silk, Wool, and Cotton.
Claims use since Apr. 28, 1921.

Ser. No. 154,478. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BIANCHINI, FÉRIER, Lyon, France. Filed Oct. 24, 1921.

STUARDE

Particular description of goods.—Piece Goods of Silk, Wool, and Cotton.
Claims use since Aug. 8, 1921.

Ser. No. 154,557. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. F. Gladding & Co. Inc., South Otselic, N. Y. Filed Oct. 25, 1921.



No claim being made to the exclusive use of the words and numerals "Casting Line, No. 3, Test 26 Lbs." apart from the mark as shown on the drawing.

Particular description of goods.—Casting-Lines.

Claims use since Aug. 22, 1912.

Ser. No. 154,557. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. F. Gladding & Co. Inc., South Otselic, N. Y. Filed Oct. 25, 1921.



No claim being made to the exclusive use of words and numerals "Highest Quality Braided Silk, for Bait or Fly Casting, Strong and Elastic, Enameled Line, No. F, 25 Yds."

Particular description of goods.—Bait or Fly Casting Fishing-Lines.

Claims use since Jan. 1, 1908.

Ser. No. [illegible]. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. F. Gladding & Co. Inc., New York, N. Y. Filed Oct. 25, 1921.



Particular description of goods.—A Table Game.

Claims use [illegible]

Ser. No. [illegible]. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. F. Gladding & Co. Inc., South Otselic, N. Y. Filed Oct. 26, 1921.



No claim being made to the exclusive use of the words or numerals "Braided Silk Casting Line, No. 4, 50 Yds." apart from the mark as shown on the drawing.

Particular description of goods.—Braided Silk Casting-Lines.

Claims use since Apr. 25, 1913.

Ser. No. 154,624. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) Exerswing Company, Minneapolis, Minn. Filed Oct. 26, 1921.

EXERSWING

Particular description of goods.—Swings.

Claims use since on or about Nov. 1, 1920.

Ser. No. 154,587. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. F. Gladding & Co. Inc., South Otselic, N. Y. Filed Oct. 26, 1921.



No claim being made to the exclusive use of the words or numerals "Waterproofed and Enameled Silk Line, Patented Process, No. G, 25 Yds., None Genuine without This" apart from the mark as shown on the drawing.

Particular description of goods.—Silk Waterproofed and Enameled Silk Fishing-Lines.

Claims use since Sept. 1, 1912.

Ser. No. 154,690. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. F. Gladding & Co. Inc., South Otselic, N. Y. Filed Oct. 28, 1921.



No claim being made to the exclusive use of the words or numerals "Made from the Highest Quality Silk, Enameled Silk Fly Line, Salmo Process, No. 2 Trout, 25 Yds., 15 Lb. Test" apart from the mark as shown on the drawing.

Particular description of goods.—Enameled Silk Fly Fishing-Lines.

Claims use since Aug. 22, 1912.

Ser. No. 154,692. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. F. Gladding & Co. Inc., South Otselic, N. Y. Filed Oct. 28, 1921.



No claim being made to the exclusive use of the words or numerals "Extra [illegible], No. 60, 60 Yds., Minnow Casting Line" apart from the mark as shown on the drawing.

Particular description of goods.—Minnow Casting-Lines.

Claims use since Jan. 1, 1907.

Ser. No. 154,724. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. F. Gladding & Co. Inc., South Otselic, N. Y. Filed Oct. 29, 1921.



No claim being made to the exclusive use of the words or numerals "50 Yds., Pure Silk, Hard Braided Casting Line, No. A C, Test 28 Pounds, The Patriarch of Casting Lines" apart from the mark as shown on the drawing.

Particular description of goods.—Hard Braided Casting-Lines.

Claims use since July 31, 1912.

Ser. No. 154,786. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. F. Glassmire & Co. Inc., South Otselic, N. Y. Filed Oct. 29, 1921.



No claim being made to the exclusive use of the words or numerals "100 Yds., Genuine Irish Linen Bass Line, No." apart from the mark as shown on the drawing.

Particular description of goods.—Irish-Linen Bass-Lines.

Claims use since Aug. 22, 1912.

Ser. No. 154,787. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. F. Glassmire & Co. Inc., South Otselic, N. Y. Filed Oct. 29, 1921.



No claim being made to the exclusive use of the words or numerals "Cuttyhunk Quality Linen Reel Line Best Grade Irish Flax, 50 Ft., No. 60" apart from the mark as shown on the drawing.

Particular description of goods.—Linen Reel-Lines.

Claims use since Sept. 1, 1915.

Ser. No. 154,788. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. F. Glassmire & Co. Inc., South Otselic, N. Y. Filed Oct. 29, 1921.



No claim being made to the exclusive use of the words or numerals "Hard Braid Silk, Waterproof, Casting Line" apart from the mark as shown on the drawing.

Particular description of goods.—Waterproof Braided Silk Casting-Lines.

Claims use since Sept. 11, 1905.

Ser. No. 154,775. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) United States Steel Toy Company, Plainsville, Mass. Filed Oct. 29, 1921.



Particular description of goods.—Child's Wheeled Car.

Claims use since April, 1920.

Ser. No. 154,802. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) Howard R. Larsen, Milwaukee, Wis. Filed Oct. 31, 1921.

Jiggle-Wiggle

Particular description of goods.—Dolls.

Claims use since Jan. 20, 1921.

Ser. No. 154,988. (CLASS 12. CONSTRUCTION MATERIALS.) Special Service Flooring Corporation, New York, N. Y. Filed Nov. 2, 1921.

SERVICITE

Particular description of goods.—Magnesium Oxychlorid Flooring.

Claims use since Feb. 2, 1921.

Ser. No. 155,204. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Wenatchee District Co-Operative Association, Wenatchee, Wash. Filed Nov. 8, 1921.

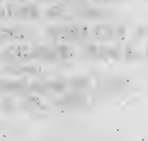
Jim Dandy

Particular description of goods.—Fresh Deciduous Fruits.

Claims use since Sept. 9, 1921.

Ser. No. 155,205. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Wenatchee District Co-Operative Association, Wenatchee, Wash. Filed Nov. 8, 1921.

Jim Hill



The portrait in the drawing being that of Jim Hill, deceased.

Particular description of goods.—Fresh Deciduous Fruits.

Claims use since Sept. 9, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

DECEMBER 13, 1921.

149,333. NON-FERROUS CASTINGS, SUCH AS DIE-CASTINGS. The Doehler Die Casting Corporation, Brooklyn and New York, N. Y.
Filed November 22, 1920. Serial No. 136,987. PUBLISHED AUGUST 23, 1921.

149,334. MARBLE NOT PREPARED FOR BUILDING PURPOSES. The American Marble Company, Aldamogordo, N. Mex., and Chicago, Ill.
Filed April 15, 1921. Serial No. 146,197. PUBLISHED JULY 19, 1921.

149,335. ROPE MADE OF ALUMINUM. Aluminium-Walzwerken A.-G. Schaffhausen, Switzerland.
Filed October 26, 1920. Serial No. 133,901. PUBLISHED AUGUST 16, 1921.

149,336. CERTAIN CONVEYERS AND CONVEYING MACHINERY, AND PARTS THEREOF. The Alvey-Ferguson Company, Cincinnati, Ohio.
Filed April 28, 1919. Serial No. 117,918. PUBLISHED AUGUST 23, 1921.

149,337. BABBITT-LINED BEARINGS. American Bearing & Die Casting Corporation, Indianapolis, Ind.
Filed March 12, 1921. Serial No. 144,657. PUBLISHED JULY 12, 1921.

149,338. TOY CHEMICAL SETS. American Drug and Chemical Co., Gettysburg, Pa.
Filed July 9, 1921. Serial No. 150,173. PUBLISHED SEPTEMBER 6, 1921.

149,339. RUBBER BANDS. American Lead Pencil Company, New York, N. Y.
Filed April 15, 1921. Serial No. 146,199. PUBLISHED JULY 26, 1921.

149,340. TURPENTINE SUBSTITUTE. The Atlantic Refining Company, Philadelphia, Pa.
Filed June 6, 1921. Serial No. 148,691. PUBLISHED SEPTEMBER 6, 1921.

149,341. SHEET-PACKING. Barrett Steam Specialty Co., New Bedford, Mass.
Filed July 6, 1918. Serial No. 111,984. PUBLISHED AUGUST 23, 1921.

149,342. TWINES. J. E. Barbour Company, Paterson, N. J.
Filed November 27, 1920. Serial No. 140,247. PUBLISHED AUGUST 16, 1921.

149,343. PARCEL-POST MAILING-ENVELOPS. Bemis Bro. Bag Co., St. Louis, Mo.
Filed January 14, 1921. Serial No. 142,244. PUBLISHED SEPTEMBER 6, 1921.

149,344. TABLES, CHAIRS, AND STOOLS. Bassick & Company, Indianapolis, Ind., and Louisville, Ky.
Filed September 22, 1919. Serial No. 122,962. PUBLISHED AUGUST 23, 1921.

149,345. PAPER BAGS. Blake McFall Company, Portland, Oreg.
Filed January 24, 1921. Serial No. 142,687. PUBLISHED SEPTEMBER 6, 1921.

149,346. POPPING CORN. Howard D. Bradshaw, New York, N. Y.
Filed June 7, 1921. Serial No. 148,700. PUBLISHED AUGUST 23, 1921.

149,347. CASTERS. The Bassick Company, Bridgeport, Conn.
Filed July 5, 1921. Serial No. 150,002. PUBLISHED SEPTEMBER 6, 1921.

149,348. CASTERS. The Bassick Company, Bridgeport, Conn.
Filed July 7, 1921. Serial No. 150,093. PUBLISHED SEPTEMBER 6, 1921.

149,349. NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUP FOR MAKING THE SAME. Henry R. Bisgrove, Collinsville, Ill.
Filed June 27, 1921. Serial No. 149,675. PUBLISHED AUGUST 23, 1921.

149,350. LUMBER, SHINGLES, AND LATHS. Brandmeis-Rounds Lumber Co., Seattle, Wash.
Filed June 29, 1920. Serial No. 134,344. PUBLISHED JUNE 28, 1921.

149,351. LUMBER, SHINGLES, AND LATHS. Brandmeis-Rounds Lumber Co., Seattle, Wash.
Filed June 29, 1920. Serial No. 134,345. PUBLISHED JUNE 28, 1921.

149,352. HAIR-NETS. Breslauer Brothers & Bernstein, Inc., New York, N. Y.
Filed June 18, 1921. Serial No. 149,317. PUBLISHED AUGUST 16, 1921.

149,353. A WASHING-POWDER. Jack E. Brown, Colton, Calif., assignor, by mesne assignments, to Gertrude Johnson, Rialto, Calif.
Filed March 19, 1921. Serial No. 144,961. PUBLISHED JULY 12, 1921.

149,354. COTTON PIECE GOODS. Bruns, Potterat & Co., New York, N. Y.
Filed June 10, 1921. Serial No. 148,917. PUBLISHED AUGUST 16, 1921.

149,355. TRACTORS. "The E. B. Cassatt Company," Cleveland, Ohio.
Filed April 22, 1920. Serial No. 131,467. PUBLISHED AUGUST 23, 1921.

149,356. YARNS AND THREADS. Cherokee Spinning Company, Knoxville, Tenn.
Filed April 23, 1921. Serial No. 146,627. PUBLISHED JULY 19, 1921.

149,357. PNEUMATIC TOOLS AND MACHINERY. Chicago Pneumatic Tool Company, Chicago, Ill.
Filed April 3, 1920. Serial No. 130,576. PUBLISHED NOVEMBER 30, 1920.

149,358. CERTAIN NAMED MACHINERY AND TOOLS. Chicago Pneumatic Tool Company, Chicago, Ill.
Filed April 3, 1920. Serial No. 130,577. PUBLISHED NOVEMBER 30, 1920.

149,359. DEFORMITY-BRACES, EXTENSION-SHOES, ARTIFICIAL LIMBS, ELASTIC STOCKINGS, ABDOMINAL SUPPORTERS, ARCH-SUPPORTS, AND TRUSSES. Chicago Orthopedic Appliance Company, Chicago, Ill.
Filed November 19, 1920. Serial No. 139,848. PUBLISHED AUGUST 23, 1921.

149,360. CANDY. Chocolate Truffles Co. Inc., Portland, Oreg.
Filed June 3, 1921. Serial No. 148,581. PUBLISHED AUGUST 23, 1921.

149,361. NEEDLES FOR SOUND-REPRODUCING MACHINES. The A. B. Clinton Company, New Haven, Conn.
Filed April 16, 1921. Serial No. 146,251. PUBLISHED JULY 26, 1921.

149,362. WHEAT-FLOUR. H. C. COLE MILLING CO., Chester, Ill.
Filed November 17, 1920. Serial No. 139,732. PUBLISHED AUGUST 23, 1921.

149,363. POWDERED BUTTERMILK. COLLIS PRODUCTS COMPANY, Clinton, Iowa.
Filed April 25, 1921. Serial No. 146,093. PUBLISHED JULY 19, 1921.

149,364. CERTAIN NAMED PIGMENTS AND COLORS, PUTTY, &c. COOPER & COOPER, INC., New York, N. Y.
Filed April 8, 1920. Serial No. 130,589. PUBLISHED AUGUST 23, 1921.

149,365. CORN-STARCH. CORN PRODUCTS REFINING CO., New York, N. Y.
Filed April 23, 1921. Serial No. 146,625. PUBLISHED JULY 19, 1921.

149,366. PAPER BAGS. CROWN WILLAMETTE PAPER COMPANY, San Francisco, Calif.
Filed March 28, 1921. Serial No. 145,219. PUBLISHED SEPTEMBER 6, 1921.

149,367. PAPER BAGS. CROWN WILLAMETTE PAPER COMPANY, San Francisco, Calif.
Filed March 28, 1921. Serial No. 145,220. PUBLISHED SEPTEMBER 6, 1921.

149,368. YARNS. DIXIE MERCERIZING COMPANY, Chattanooga, Tenn.
Filed June 30, 1921. Serial No. 149,849. PUBLISHED AUGUST 16, 1921.

149,369. REPAIR OUTFITS FOR TIRES. THE DUNLOP RUBBER COMPANY LIMITED, London, England.
Filed September 8, 1920. Serial No. 136,939. PUBLISHED DECEMBER 21, 1920.

149,370. PAINTERS' MATERIALS—NAMELY, READY-MIXED AND PASTE PAINTS AND VARNISH AND PAINT ENAMELS. JOHN DUNN, SON & CO., New York, N. Y.
Filed December 10, 1920. Serial No. 140,870. PUBLISHED SEPTEMBER 6, 1921.

149,371. RUBBER PATCHES. EAGLE TIRE PATCH CO., Moberly, Mo.
Filed October 11, 1920. Serial No. 138,161. PUBLISHED AUGUST 30, 1921.

149,372. FRESH FISH. EAST COAST FISHERIES PRODUCTS COMPANY, Rockland, Me.
Filed April 13, 1921. Serial No. 146,115. PUBLISHED JULY 19, 1921.

149,373. LARD SUBSTITUTES. HEDWIG R. ELIAS, Philadelphia, Pa.
Filed March 11, 1921. Serial No. 144,609. PUBLISHED AUGUST 30, 1921.

149,374. CENTRIFUGAL SEPARATORS AND PARTS THEREOF. EMPIRE CREAM SEPARATOR COMPANY, Bloomfield, N. J.
Filed June 29, 1920. Serial No. 134,359. PUBLISHED SEPTEMBER 6, 1921.

149,375. MILKING-MACHINES AND PARTS THEREOF AND MILKING-MACHINE SYSTEMS AND PARTS THEREOF. EMPIRE CREAM SEPARATOR COMPANY, Bloomfield, N. J.
Filed June 29, 1920. Serial No. 134,360. PUBLISHED SEPTEMBER 6, 1921.

149,376. VARNISH. THE EMPIRE VARNISH COMPANY, Cleveland, Ohio.
Filed September 30, 1920. Serial No. 137,769. PUBLISHED AUGUST 30, 1921.

149,377. COTTON VOILES IN PIECE GOODS. N. ERLANGER, BLUMGART & CO., INC., New York, N. Y.
Filed June 14, 1921. Serial No. 149,129. PUBLISHED AUGUST 16, 1921.

149,378. COAL AND WOOD STOVES. THE ESTATE STOVE COMPANY, Hamilton, Ohio.
Filed March 5, 1921. Serial No. 144,314. PUBLISHED AUGUST 30, 1921.

149,379. COTTON, WOOLEN, LINEN, AND COMBINATION PIECE GOODS. EVERETT, HEANEY & COMPANY, INC., New York, N. Y.
Filed July 12, 1920. Serial No. 134,511. PUBLISHED AUGUST 23, 1921.

149,380. MILL-BASKETS, OIL-CABINETS, TOOL-CHESTS, HOSE-REELS, AND GASOLENE, OIL, AND STORAGE TANKS. THE FAIRBANKS CO., New York, N. Y.
Filed January 13, 1921. Serial No. 142,206. PUBLISHED SEPTEMBER 6, 1921.

149,381. PUZZLES. WILLIAM L. FERRIS, New York, N. Y.
Filed September 14, 1920. Serial No. 137,160. PUBLISHED AUGUST 30, 1921.

149,382. POLISH FOR FURNITURE. GEORGE FISHER, New York, N. Y.
Filed October 23, 1920. Serial No. 138,714. PUBLISHED AUGUST 23, 1921.

149,383. CANNED AND BOTTLED HONEY AND BOXES OF HONEYCOMB. HELEN MORGENTHAU FOX, Peekskill, N. Y.
Filed February 2, 1921. Serial No. 143,063. PUBLISHED JULY 26, 1921.

149,384. SPAGHETTI, MACARONI, VERMICELLI, AND NOODLES. GANDOLFO-GRIO MFG. CO., St. Louis, Mo.
Filed September 20, 1920. Serial No. 137,377. PUBLISHED AUGUST 30, 1921.

149,385. WHEAT-FLOUR. A. GARTUN & COMPANY, INC., New York, N. Y.
Filed April 11, 1921. Serial No. 146,011. PUBLISHED JULY 19, 1921.

149,386. REFRACTORY COMPOSITION FOR USE IN FURNACES AND THE LIKE. GENERAL ELECTRIC COMPANY, Schenectady, N. Y.
Filed March 9, 1921. Serial No. 144,521. PUBLISHED AUGUST 30, 1921.

149,387. GUN-RECOIL PADS FOR HAND-ARMS—NAMELY, RIFLES AND SHOTGUNS. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed September 22, 1920. Serial No. 137,462. PUBLISHED AUGUST 30, 1921.

149,388. GUN-RECOIL PADS FOR HAND-ARMS—NAMELY, RIFLES AND SHOTGUNS. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed September 22, 1920. Serial No. 137,466. PUBLISHED AUGUST 30, 1921.

149,389. BELTING MADE OF FABRIC COMBINED WITH RUBBER. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed February 17, 1920. Serial No. 128,498. PUBLISHED AUGUST 23, 1921.

149,390. FURNITURE-POLISH OTHER THAN VARNISH. LUCIOUS I. GORDON, Mobile, Ala.
Filed January 20, 1920. Serial No. 127,367. PUBLISHED SEPTEMBER 6, 1921.

149,391. VEILS, VEILINGS, AND NETTINGS IN THE PIECE. GOTTSCHALK STEINBERG & CO. INC., New York, N. Y.
Filed June 28, 1920. Serial No. 134,312. PUBLISHED JUNE 21, 1921.

149,392. AUTOMOBILES, MOTOR-TRUCKS, CHASSIS, VEHICLE-BODIES, AND TRAILERS. THE GRAMM-BERNSTEIN MOTOR TRUCK COMPANY, Lima, Ohio.
Filed February 19, 1921. Serial No. 143,514. PUBLISHED MARCH 29, 1921.

149,393. WHEAT-FLOUR. GREAT WEST MILL & ELEVATOR CO., Amarillo, Tex.
Filed April 11, 1921. Serial No. 146,014. PUBLISHED JULY 19, 1921.

149,394. WHEAT-FLOUR. GREAT WEST MILL & ELEVATOR CO., Amarillo, Tex.
Filed April 18, 1921. Serial No. 146,314. PUBLISHED JULY 19, 1921.

149,395. WHEAT-FLOUR. GREAT WEST MILL & ELEVATOR CO., Amarillo, Tex.
Filed April 18, 1921. Serial No. 146,315. PUBLISHED JULY 19, 1921.

149,396. SOLDER. GREAT WESTERN SMELTING & REFINING COMPANY, Chicago, Ill.
Filed June 17, 1921. Serial No. 149,282. PUBLISHED SEPTEMBER 6, 1921.

149,397. CHEESE. GEBR. & H. PROBST A. G., Langnau, Switzerland.
Filed November 23, 1920. Serial No. 140,032. PUBLISHED AUGUST 16, 1921.

149,398. CERTAIN UNWROUGHT AND PARTLY-WROUGHT STEEL PRODUCTS. HADFIELDS LIMITED, Sheffield, England.
Filed June 16, 1920. Serial No. 133,775. PUBLISHED AUGUST 23, 1921.

149,399. MINERAL WATERS. JOHN HALL, Springfield, Ill.
Filed June 4, 1921. Serial No. 148,654. PUBLISHED AUGUST 30, 1921.

149,400. LATHER-BRUSHES. THE HANDRIGHT COMPANY, Belleville, N. J.
Filed December 10, 1920. Serial No. 140,886. PUBLISHED AUGUST 23, 1921.

149,401. LATHER-BRUSHES. THE HANDRIGHT COMPANY, Belleville, N. J.
Filed December 10, 1920. Serial No. 140,888. PUBLISHED AUGUST 23, 1921.

149,402. LATHER-BRUSHES. THE HANDRIGHT COMPANY, Belleville, N. J.
Filed December 10, 1920. Serial No. 140,889. PUBLISHED AUGUST 23, 1921.

149,403. LATHER-BRUSHES. THE HANDRIGHT COMPANY, Belleville, N. J.
Filed December 10, 1920. Serial No. 140,891. PUBLISHED AUGUST 23, 1921.

149,404. VEGETABLE LIQUID BOILER COMPOUND AND ALSO ANTIFREEZING COMPOUND. HENRY W. HAYNES, Washington, D. C.
Filed December 6, 1920. Serial No. 140,646. PUBLISHED SEPTEMBER 6, 1921.

149,405. SHOWCASES. M. L. HIMMEL & SON, Baltimore, Md.
Filed October 21, 1920. Serial No. 138,642. PUBLISHED AUGUST 23, 1921.

149,406. IMITATION-VANILLA EXTRACT. HORINE & BOWEN COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,326. PUBLISHED AUGUST 30, 1921.

149,407. CERTAIN NAMED MUSICAL INSTRUMENTS AND PARTS THEREOF. ALBERT HOUDLETT & SONS, INC., Brooklyn, N. Y.
Filed March 31, 1921. Serial No. 145,513. PUBLISHED JULY 26, 1921.

149,408. A GAME APPARATUS COMPRISING RINGS AND INFLATED BALLS FOR A PARLOR GAME. B. M. HUTCHISON, Plymouth, England.
Filed December 9, 1920. Serial No. 140,837. PUBLISHED AUGUST 30, 1921.

149,409. CERTAIN NAMED RUGS, BLANKETS, COUCH AND BED COVERS, AND AUTO AND PERAMBULATOR ROBES. F. C. HUYCK & SONS, Albany, N. Y.
Filed February 15, 1921. Serial No. 143,605. PUBLISHED AUGUST 23, 1921.

149,410. ROLLED-STEEL SHEETS AND ROLLED STEEL IN VARIOUS FORMS AND FINISHES. THE HYDRAULIC STEEL COMPANY, Cleveland, Ohio.
Filed July 31, 1920. Serial No. 135,648. PUBLISHED OCTOBER 4, 1921.

149,411. ROLLED-STEEL SHEETS AND ROLLED STEEL IN VARIOUS FORMS AND FINISHES. THE HYDRAULIC STEEL COMPANY, Cleveland, Ohio.
Filed August 9, 1920. Serial No. 135,925. PUBLISHED AUGUST 23, 1921.

149,412. NON-BREAKABLE LAMP-LENSES. THE INSEL COMPANY, Newark, N. J.
Filed February 4, 1921. Serial No. 143,170. PUBLISHED AUGUST 30, 1921.

149,413. WHEAT-FLOUR. INTERNATIONAL MILLING COMPANY, New Prague, Minn.
Filed April 25, 1921. Serial No. 146,707. PUBLISHED JULY 19, 1921.

149,414. A PRIME SUMMER YELLOW REFINED DEODORIZED COTTON-SEED OIL. THE INTERNATIONAL VEGETABLE OIL COMPANY, Atlanta, Ga.
Filed April 22, 1921. Serial No. 146,557. PUBLISHED JULY 19, 1921.

149,415. A PRIME SUMMER WHITE REFINED DEODORIZED COTTON-SEED OIL. THE INTERNATIONAL VEGETABLE OIL COMPANY, Atlanta, Ga.
Filed April 22, 1921. Serial No. 146,559. PUBLISHED JULY 19, 1921.

149,416. CERTAIN NAMED WOOD, PAPER, AND METAL TOYS. IRONBERG TRADING CORPORATION, New York, N. Y.
Filed November 22, 1920. Serial No. 139,975. PUBLISHED AUGUST 30, 1921.

149,417. CERTAIN NAMED WOOD, PAPER, AND METAL TOYS. IRONBERG TRADING CORPORATION, New York, N. Y.
Filed November 22, 1920. Serial No. 139,976. PUBLISHED AUGUST 30, 1921.

149,418. CERTAIN NAMED WOOD, PAPER, AND METAL TOYS. IRONBERG TRADING CORPORATION, New York, N. Y.
Filed November 22, 1920. Serial No. 139,977. PUBLISHED AUGUST 30, 1921.

149,419. INDICATORS OF REVOLUTION, SPEED-INDICATORS, ALTITUDE-REGISTERING ANEMOMETERS. EDMOND JABERG, Paris, France.
Filed May 20, 1919. Serial No. 113,734. PUBLISHED AUGUST 23, 1921.

149,420. MOTOR-LUBRICATING OILS. THE JEWETT & SHERMAN OIL CO., Chicago, Ill.
Filed April 26, 1920. Serial No. 131,636. PUBLISHED AUGUST 23, 1921.

149,421. INGOTS OF NON-FERROUS METAL. KEYSTONE DIE CASTING CO., Norristown, Pa.
Filed November 12, 1920. Serial No. 139,581. PUBLISHED AUGUST 23, 1921.

149,422. PIES. MRS. ALLEN'S KITCHENS, New York, N. Y.
Filed April 22, 1921. Serial No. 146,562. PUBLISHED JULY 19, 1921.

149,423. PAINTS, READY MIXED AND IN PASTE FORM, VARNISHES, PAINT ENAMELS, WOOD-STAINS, AND FILLERS. C. ALBERT KUEHNLE CO., INC., Philadelphia, Pa.
Filed June 18, 1921. Serial No. 149,332. PUBLISHED SEPTEMBER 6, 1921.

149,424. STEEL, INCLUDING TOOL AND DIE STEEL. FIRTH-STERLING STEEL COMPANY, McKeesport, Pa.
Filed June 24, 1921. Serial No. 149,583. PUBLISHED SEPTEMBER 6, 1921.

149,425. HOSE, DREDGING-SLEEVES, AND MACHINERY PACKING, ALL MADE OF RUBBER COMBINED WITH FABRIC. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed July 1, 1921. Serial No. 149,897. PUBLISHED AUGUST 23, 1921.

149,426. HAIR-NETS. GRAF BROS. INC., New York, N. Y.
Filed June 28, 1921. Serial No. 149,749. PUBLISHED AUGUST 16, 1921.

149,427. NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. ARIEL CLYDE JEWELL, Chicago, Ill.
Filed July 9, 1921. Serial No. 150,195. PUBLISHED AUGUST 23, 1921.

149,426. BROWN-DYED RABBIT-SKINS. S. Lasker & Sons, New York, N. Y.
Filed January 22, 1921. Serial No. 142,562. PUBLISHED AUGUST 23, 1921.

149,427. SUCTION DEVICES FOR DENTAL PLATES. John Lehner, Pittsburgh, Pa.
Filed July 14, 1919. Serial No. 120,542. PUBLISHED AUGUST 30, 1921.

149,430. ALUMINUM COOKING UTENSILS CONSISTING OF POTS, KETTLES, PANS, AND PLATES. Lenox Aluminum Company, Kenosha, Wis.
Filed March 15, 1920. Serial No. 129,726. PUBLISHED SEPTEMBER 6, 1921.

149,431. RED BLANKETS MADE OF COTTON AND OF A MIXTURE OF COTTON AND WOOL. W. S. Lamper Company, Lewiston, Me.
Filed October 2, 1920. Serial No. 137,043. PUBLISHED AUGUST 23, 1921.

149,432. CORNMEAL, GRAHAM FLOUR, WHOLE-WHEAT FLOUR, AND DAIRY, HORSE, HOG, CATTLE, AND HEN FEEDS. H. A. Lenzen & Son, Springfield, Ill.
Filed November 1, 1920. Serial No. 138,040. PUBLISHED AUGUST 30, 1921.

149,433. SPARK-PLUGS. Lightning Spark Plug Company, Los Angeles, Calif.
Filed June 15, 1921. Serial No. 149,195. PUBLISHED AUGUST 16, 1921.

149,434. NOVELTIES IN THE FORM OF CURIOS, OLD PRINTS, EMBROIDERIES, BROCADES, LACQUERED AND CARVED WOOD NOVELTIES. The Look-See Shop, Washington, D. C.
Filed October 26, 1920. Serial No. 138,815. PUBLISHED AUGUST 16, 1921.

149,435. WORSTED TRIMMING FOR USE IN ART-NEEDLEWORK. Lorimier, Greenbaum Co., Inc., New York, N. Y.
Filed October 20, 1920. Serial No. 138,577. PUBLISHED AUGUST 23, 1921.

149,436. TOE AND HEEL PROTECTORS. L & W Toe and Heel Saver, Newark, N. J.
Filed July 12, 1921. Serial No. 150,278. PUBLISHED SEPTEMBER 6, 1921.

149,437. A LAXATIVE TABLET FOR COLDS, COUGHS, LAGRIPPE, HEADACHES, RHEUMATIC AND NEURALGIC PAINS. Ollie S. Letterston, Lexington, Ky.
Filed July 3, 1919. Serial No. 120,250. PUBLISHED JUNE 15, 1920.

149,438. VARNISH. McDougall-Butler Co., Inc., Buffalo, N. Y.
Filed June 20, 1921. Serial No. 149,410. PUBLISHED AUGUST 30, 1921.

149,439. VARNISH. McDougall-Butler Co., Inc., Buffalo, N. Y.
Filed June 20, 1921. Serial No. 149,411. PUBLISHED AUGUST 30, 1921.

149,440. PAINT ENAMEL. McDougall-Butler Co., Inc., Buffalo, N. Y.
Filed June 20, 1921. Serial No. 149,412. PUBLISHED SEPTEMBER 6, 1921.

149,441. PREPARED POULTRY FEED. William J. McKay, Chicago, Ill.
Filed April 18, 1921. Serial No. 146,324. PUBLISHED JULY 19, 1921.

149,442. CERTAIN SHUTTLES, SHUTTLE-PEGS, PICKING BAND-PEGS, CREEL-PEGS, AND SHUTTLE-PEG PINS. Maatschappij Aco, Amsterdam and Ter Apel, Netherlands.
Filed October 5, 1920. Serial No. 137,953. PUBLISHED AUGUST 16, 1921.

149,445. CERTAIN NAMED FOODS AND INGREDIENTS OF FOODS. Sam Maenge & Henry G. Mosser, Los Angeles, Calif.
Filed September 9, 1920. Serial No. 138,040. PUBLISHED SEPTEMBER 6, 1921.

149,444. LATHES, REAMERS, SHAPERS, BORING-MILLS, WHEEL-LATHES, CAR-WHEEL BORERS, AXLE-LATHES, TRAVERSE-SHAPERS. Manning, Maxwell & Moore, Inc., New York, N. Y.
Filed March 9, 1921. Serial No. 144,581. PUBLISHED JUNE 28, 1921.

149,445. CERTAIN NAMED SEWERS AND TABLE AND HOLLOW WARE. Manufacturers Japanese Import Company, Incorporated, New York, N. Y.
Filed April 19, 1921. Serial No. 146,802. PUBLISHED JULY 26, 1921.

149,446. CERTAIN CUTLERY AND TABLE FLATWARE AND NUTCRACKERS. Mappin & Webb Limited, London, England.
Filed March 31, 1920. Serial No. 130,434. PUBLISHED SEPTEMBER 6, 1921.

149,447. CERTAIN CUTLERY AND TABLE FLATWARE, AND NUTCRACKERS. Mappin & Webb Limited, London, England.
Filed March 31, 1920. Serial No. 130,435. PUBLISHED SEPTEMBER 6, 1921.

149,448. BEDSPREADS. Marshall Field & Company, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,212. PUBLISHED MARCH 22, 1921.

149,449. LEATHER. Martin Leathers Company, Wilmington, Del.
Filed June 21, 1921. Serial No. 149,472. PUBLISHED AUGUST 16, 1921.

149,450. GAS AND COAL RANGES. Mascot Stove Manufacturing Co., Chattanooga, Tenn.
Filed April 15, 1921. Serial No. 146,222. PUBLISHED JULY 19, 1921.

149,451. WHEAT-FLOUR AND SELF-RISING WHEAT-FLOUR. Mayflower Mills, Fort Wayne, Ind.
Filed April 18, 1921. Serial No. 146,323. PUBLISHED JULY 19, 1921.

149,452. CIDER. Medina Fruit Products Co. Inc., Medina, N. Y.
Filed December 4, 1920. Serial No. 140,605. PUBLISHED AUGUST 16, 1921.

149,453. CIDER. Medina Fruit Products Co. Inc., Medina, N. Y.
Filed December 4, 1920. Serial No. 140,606. PUBLISHED AUGUST 16, 1921.

149,454. POWER-DRIVEN PUMPS, DRAG-SAWS, AND IRON WEDGES, AND CERTAIN OTHER TOOLS. Mill and Mine Supply Co., Seattle, Wash.
Filed June 14, 1920. Serial No. 133,663. PUBLISHED AUGUST 23, 1921.

149,455. DOLLS. The Miller Rubber Company, Akron, Ohio.
Filed July 21, 1921. Serial No. 150,763. PUBLISHED SEPTEMBER 6, 1921.

149,456. FURNITURE-POLISH AND AUTOMOBILE-POLISH. Mirand Polish Company, Pittsburgh, Pa.
Filed April 22, 1921. Serial No. 146,571. PUBLISHED JULY 26, 1921.

149,457. CONTAINERS FOR MANICURING PREPARATIONS, POWDERS, AND COSMETICS, DENTISTS', MEDICINAL, AND ARTISTS' PREPARATIONS. Arnetta Moeller, Indianapolis, Ind.
Filed November 6, 1918. Serial No. 114,095. PUBLISHED AUGUST 30, 1921.

149,458. PISTON AND PACKING RINGS. Mohawk Piston Ring Corporation, Cleveland, Ohio.
Filed April 21, 1921. Serial No. 146,492. PUBLISHED JULY 19, 1921.

149,459. CERTAIN WIRE ARTICLES. Monarch Brush Company, Worcester, Mass.
Filed April 19, 1920. Serial No. 117,621. PUBLISHED AUGUST 23, 1921.

149,460. AIR-COMPRESSORS, VACUUM-PUMPS, VACUUM-HEATING PUMPS, BOILER-FEED PUMPS, TURBINES, AND TURBINE-ENGINES. Nash Engineering Co., South Norwalk, Conn.
Filed June 6, 1921. Serial No. 148,751. PUBLISHED AUGUST 16, 1921.

149,461. PAINT ENAMELS, READY-MIXED PAINTS, VARNISHES, AND FURNITURE-POLISH. National Paint Syndicate Inc., New York, N. Y.
Filed June 18, 1921. Serial No. 149,346. PUBLISHED SEPTEMBER 6, 1921.

149,462. LEDGER, WRITING, AND BOND PAPER FOR WRITING AND PRINTING PURPOSES. Neenah Paper Company, Neenah, Wis.
Filed April 18, 1921. Serial No. 146,327. PUBLISHED JULY 19, 1921.

149,463. RUBBER BELTING AND RUBBER HOSE. New Jersey Car Spring & Rubber Co., Inc., Jersey City, N. J.
Filed September 8, 1920. Serial No. 139,961. PUBLISHED AUGUST 30, 1921.

149,464. FRESH POTATOES. Norfolk Truckers Exchange, Norfolk, Va.
Filed January 24, 1921. Serial No. 142,716. PUBLISHED AUGUST 30, 1921.

149,465. GOLF-BALLS AND GOLF-STICK GRIPS. The Marathon Tire & Rubber Company, Cuyahoga Falls, Ohio.
Filed July 1, 1921. Serial No. 149,923. PUBLISHED SEPTEMBER 6, 1921.

149,466. TOOLS FOR CUTTING THE COVERS OF SHEET-METAL CANS AND BOXES. Openright Specialty Company, New York, N. Y.
Filed June 14, 1921. Serial No. 149,145. PUBLISHED AUGUST 16, 1921.

149,467. COTTON PIECE GOODS. Pacific Mills, Lawrence and Boston, Mass.
Filed June 8, 1921. Serial No. 148,850. PUBLISHED AUGUST 16, 1921.

149,468. FRESH APPLES, DRESSED CHICKENS, FRESH POTATOES, AND FRESH MILK. Peter N. Papason, Chicago, Ill.
Filed December 13, 1920. Serial No. 141,024. PUBLISHED AUGUST 30, 1921.

149,469. FOR TRANSMISSION AND LIKE GREASES. Parker-Kalon Corporation, Detroit, Mich.
Filed June 15, 1921. Serial No. 149,202. PUBLISHED SEPTEMBER 6, 1921.

149,470. LOCK-NUTS. Patterson Lock Nut Mfg. Co., Chicago, Ill.
Filed June 3, 1921. Serial No. 148,618. PUBLISHED AUGUST 30, 1921.

149,471. CERTAIN FILES, GRAVERS, TWEEZERS, AND PLIERS, AND MILL-GRAINING TOOLS. Henry Paulson, Chicago, Ill.
Filed November 29, 1920. Serial No. 140,402. PUBLISHED AUGUST 30, 1921.

149,472. POLISHING-BUFFS. Henry Paulson, Chicago, Ill.
Filed November 29, 1920. Serial No. 140,403. PUBLISHED AUGUST 16, 1921.

149,473. DAIRY FEED. M. C. Petrus Mill Co., Omaha, Nebr.
Filed April 13, 1921. Serial No. 146,138. PUBLISHED JULY 19, 1921.

149,474. CIGARETTE-PAPERS AND TUBES FOR CIGARETTES. Charles Emile Pertuis, Paris, France.
Filed February 26, 1920. Serial No. 126,982. PUBLISHED JUNE 28, 1921.

149,475. CIGARETTE-PAPERS AND TUBES FOR CIGARETTES. Charles Emile Pertuis, Paris, France.
Filed February 26, 1920. Serial No. 126,983. PUBLISHED JUNE 21, 1921.

149,476. READY-CUT CIGARETTE-PAPERS AND TUBES FOR CIGARETTES. Charles E. Pertuis, Paris, France.
Filed February 26, 1920. Serial No. 126,984. PUBLISHED JUNE 21, 1921.

149,477. CIGARETTE-PAPERS AND TUBES FOR CIGARETTES. Charles E. Pertuis, Paris, France.
Filed February 26, 1920. Serial No. 126,985. PUBLISHED JUNE 21, 1921.

149,478. CIGARETTE-PAPERS AND TUBES FOR CIGARETTES. Charles E. Pertuis, Paris, France.
Filed February 26, 1920. Serial No. 126,987. PUBLISHED JUNE 28, 1921.

149,479. CIGARETTE-PAPERS AND TUBES FOR CIGARETTES. Charles E. Pertuis, Paris, France.
Filed February 26, 1920. Serial No. 126,939. PUBLISHED JUNE 28, 1921.

149,480. CIGARETTE-PAPERS AND TUBES FOR CIGARETTES. Charles E. Pertuis, Paris, France.
Filed February 26, 1920. Serial No. 126,939. PUBLISHED JULY 5, 1921.

149,481. CIGARETTE-PAPERS AND TUBES FOR CIGARETTES. Charles E. Pertuis, Paris, France.
Filed February 26, 1920. Serial No. 126,940. PUBLISHED JUNE 28, 1921.

149,482. READY-MIXED PAINTS. Phoenix Paint & Varnish Company, Philadelphia, Pa.
Filed June 11, 1921. Serial No. 149,026. PUBLISHED AUGUST 30, 1921.

149,483. DRILL-RODS AND COLD-DRAWN STEEL. Pittsburgh Tool Steel Wire Company, Monessen, Pa.
Filed June 16, 1921. Serial No. 149,243. PUBLISHED SEPTEMBER 6, 1921.

149,484. MUCILAGE, PASTE, AND SEALING-WAX. Dommoy Ink Manufacturing Co., Newark, N. J.
Filed April 22, 1920. Serial No. 131,961. PUBLISHED AUGUST 23, 1921.

149,485. LARIAT-ROPE. The Portland Cordage Co., Portland, Oreg.
Filed July 19, 1921. Serial No. 150,466. PUBLISHED AUGUST 23, 1921.

149,486. FRESH FRUITS OF TROPICAL AND SEMI-TROPICAL ORIGIN—NAMELY, ORANGES, GRAPE-FRUIT, AND PINEAPPLES. Porto Rico Consolidated Fruit Company, Buffalo, N. Y.
Filed April 11, 1921. Serial No. 146,090. PUBLISHED JULY 19, 1921.

149,487. A GLASS CLEANSING AND POLISHING LIQUID. Henry T. Prange, Kalamazoo, Mich.
Filed June 4, 1921. Serial No. 148,672. PUBLISHED AUGUST 23, 1921.

149,488. DAIRY PRODUCTS—NAMELY, ICE-CREAM, MILK, CREAM, BUTTER. The Reid Ice Cream Corporation Company, Dayton, Ohio.
Filed September 13, 1920. Serial No. 137,147. PUBLISHED AUGUST 30, 1921.

149,489. IMPREGNATED MATCHES. Republic Match Company, Chicago, Ill.
Filed November 26, 1920. Serial No. 140,209. PUBLISHED JULY 19, 1921.

149,490. TOILET TANK BALL-COCKS AND TROUGH BALL-COCKS. Rex Supply Company, Inc., Oakland, Calif.
Filed July 13, 1921. Serial No. 150,335. PUBLISHED SEPTEMBER 6, 1921.

149,491. SPANISH PAPRIKA. Valentin Rodriguez, New York, N. Y.
Filed March 25, 1921. Serial No. 145,234. PUBLISHED AUGUST 30, 1921.

149,492. SPANISH PAPRIKA. VALENTIN ROSSIGNOL, New York, N. Y.
Filed March 25, 1921. Serial No. 145,235. PUBLISHED AUGUST 30, 1921.

149,493. ADJUSTABLE SHORES. HENRY W. ROOS, Cincinnati, Ohio.
Filed June 6, 1921. Serial No. 148,762. PUBLISHED AUGUST 16, 1921.

149,494. COTTON AND WOOL DRESS GOODS IN THE PIECE. W. W. RICHOFF & Co., New York, N. Y.
Filed October 28, 1920. Serial No. 138,924. PUBLISHED AUGUST 16, 1921.

149,495. AUTOMOBILE-TIRES OF RUBBER AND CLOTH FABRIC COMPOSITION AND RUBBER INNER TUBES FOR SAME. SAM BERTCH WHOLESALE SPECIALTIES, Oklahoma, Okla.
Filed June 6, 1921. Serial No. 148,695. PUBLISHED AUGUST 16, 1921.

149,496. RUBBER INNER TUBES FOR AUTOMOBILE-TIRES. SAM BERTCH WHOLESALE SPECIALTIES, Oklahoma, Okla.
Filed June 6, 1921. Serial No. 148,696. PUBLISHED AUGUST 23, 1921.

149,497. STATIONARY VULCANIZING PLANTS FOR REPAIRING AUTOMOBILE-TIRES. SCHRYVER & ROSSUM CO., St. Paul, Minn.
Filed February 11, 1920. Serial No. 128,281. PUBLISHED SEPTEMBER 6, 1921.

149,498. LEATHER PACKINGS. CHAS. A. SCHIEREN COMPANY, New York, N. Y.
Filed October 13, 1920. Serial No. 138,264. PUBLISHED AUGUST 16, 1921.

149,499. MACHINERY USED IN THE PREPARATION AND TREATMENT OF SILK AND SILK MANUFACTURES. SCRANTON SILK MACHINE COMPANY, Scranton, Pa.
Filed July 7, 1920. Serial No. 134,660. PUBLISHED SEPTEMBER 6, 1921.

149,500. FRESH CITRUS FRUITS. SEBRING CITRUS GROWERS ASSOCIATION, Sebring, Fla.
Filed June 3, 1921. Serial No. 148,625. PUBLISHED AUGUST 23, 1921.

149,501. MALT AND HOP BEVERAGES CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. ALCOHOL, BY VOLUME. SETHNESS COMPANY, Chicago, Ill.
Filed May 29, 1920. Serial No. 133,110. PUBLISHED AUGUST 30, 1921.

149,502. SHEET-METAL CANS AND PAILS. SEALITA BROS., New York, N. Y.
Filed December 4, 1920. Serial No. 140,618. PUBLISHED SEPTEMBER 6, 1921.

149,503. COTTON PIECE GOODS. G. SIDENBERG & Co., New York, N. Y.
Filed April 2, 1918. Serial No. 109,931. PUBLISHED MARCH 1, 1921.

149,504. CERTAIN METAL STRAPPING AND METALLIC FASTENING-SEALS THEREFOR. SIGNODE SYSTEM, INC., Chicago, Ill.
Filed January 22, 1917. Serial No. 100,827. PUBLISHED AUGUST 23, 1921.

149,505. CERTAIN WIRE-WORKING AND OTHER MACHINES. SLEEPER & HARTLEY, INC., Worcester, Mass.
Filed March 11, 1921. Serial No. 144,642. PUBLISHED JULY 12, 1921.

149,506. COTTON GOODS IN THE PIECE. SMITH, HOGG & Co., New York, N. Y.
Filed June 10, 1921. Serial No. 148,954. PUBLISHED AUGUST 16, 1921.

149,507. TRUSSES. LUCIUS ANTON SMITH, Buffalo, N. Y.
Filed October 30, 1920. Serial No. 139,012. PUBLISHED SEPTEMBER 6, 1921.

149,508. A CHEMICAL PREPARATION FOR THE REMOVAL OF ROAD-TAR FROM AUTO-BODIES. SOLVENT PRODUCTS COMPANY, Pittsburg, Pa.
Filed November 15, 1920. Serial No. 139,661. PUBLISHED AUGUST 23, 1921.

149,509. BITUMINOUS PUTTIES. STANDARD ASPHALT & REFINING COMPANY, Jersey City, N. J., and Chicago, Ill.
Filed May 3, 1920. Serial No. 131,968. PUBLISHED AUGUST 30, 1921.

149,510. CIGAR-BOXES. THE STATE LEAF TOBACCO CO., New York, N. Y.
Filed January 20, 1921. Serial No. 142,536. PUBLISHED SEPTEMBER 6, 1921.

149,511. CERTAIN MACHINES AND TOOLS. STEWART-SKINNER COMPANY, Worcester, Mass.
Filed April 26, 1920. Serial No. 131,671. PUBLISHED AUGUST 23, 1921.

149,512. PLANT FOOD IN TABLET FORM. STIM-U-PLANT TABLET CO., Newark, N. J., assignors to Francis L. Pruyn, New York, N. Y., and John B. Goldsborough, Croton-on-the-Hudson, N. Y.
Filed August 26, 1920. Serial No. 136,534. PUBLISHED SEPTEMBER 6, 1921.

149,513. MALTLESS NON-ALCOHOLIC BEVERAGES SOLD AS SOFT DRINKS. THE STONEWARD CORP., New York, N. Y.
Filed May 21, 1920. Serial No. 132,761. PUBLISHED AUGUST 30, 1921.

149,514. WASHING-POWDER, LAUNDRY SOAP, AND SOAP CHIPS. SWIFT AND COMPANY, Chicago, Ill.
Filed May 19, 1920. Serial No. 132,663. PUBLISHED AUGUST 10, 1920.

149,515. FURNITURE AND AUTO POLISH. ANDREW M. SNYDER, Hamilton, Ohio.
Filed June 25, 1921. Serial No. 149,654. PUBLISHED SEPTEMBER 6, 1921.

149,516. STOCK FEED OR SWEET FEED. TEMTOR CORN & FRUIT PRODUCTS CO., St. Louis, Mo., and South Fort Smith, Ark.
Filed April 11, 1921. Serial No. 146,042. PUBLISHED JULY 19, 1921.

149,517. STOCK FEED. TEMTOR CORN & FRUIT PRODUCTS CO., St. Louis, Mo.
Filed April 11, 1921. Serial No. 146,043. PUBLISHED JULY 19, 1921.

149,518. DAIRY FEED. TEMTOR CORN & FRUIT PRODUCTS CO., St. Louis, Mo., and South Fort Smith, Ark.
Filed April 11, 1921. Serial No. 146,045. PUBLISHED JULY 19, 1921.

149,519. A FATTENING FEED FOR STOCK. TEMTOR CORN & FRUIT PRODUCTS CO., St. Louis, Mo., and South Fort Smith, Ark.
Filed April 11, 1921. Serial No. 146,046. PUBLISHED JULY 19, 1921.

149,520. HORSE AND MULE FEED. TEMTOR CORN & FRUIT PRODUCTS CO., St. Louis, Mo., and South Fort Smith, Ark.
Filed April 11, 1921. Serial No. 146,047. PUBLISHED JULY 19, 1921.

149,521. A POLISHING-OIL FOR PAINTED AND VARNISHED SURFACES. THE TEXAS COMPANY, Houston, Tex., and New York, N. Y.
Filed July 2, 1921. Serial No. 149,964. PUBLISHED AUGUST 30, 1921.

149,522. A DRESSING FOR CANVAS, PANTASOTE LEATHER, MOHAIR AND IMITATION-MOHAIR SURFACES. TEXTILE, LEATHER & METAL PRESERVER CO., Kalamazoo, Mich.
Filed April 12, 1921. Serial No. 146,066. PUBLISHED JULY 26, 1921.

149,523. OLIVE-OIL AND BLACK OLIVES. TRIPOLI IMPORTING CO., New York, N. Y.
Filed April 22, 1921. Serial No. 146,604. PUBLISHED JULY 19, 1921.

149,524. ICE-CREAM. TRI-STATE ICE CREAM CORPORATION, La Crosse, Wis.
Filed June 17, 1921. Serial No. 149,302. PUBLISHED AUGUST 23, 1921.

149,525. TOY WOODEN HORSES MOUNTED ON WHEELS. TOYTOWN MANUFACTURING COMPANY, Minneapolis, Minn.
Filed December 4, 1920. Serial No. 140,621. PUBLISHED AUGUST 30, 1921.

149,526. FOLDING LADDERS. TUCKAWAY FOLDING LADDER CO. INC., New York, N. Y.
Filed March 12, 1921. Serial No. 144,692. PUBLISHED AUGUST 23, 1921.

149,527. HAND AND WALL MIRRORS AND PICTURE-FRAMES. TUSKELOID COMPANY, INC., New York, N. Y.
Filed December 6, 1920. Serial No. 140,688. PUBLISHED AUGUST 23, 1921.

149,528. HAND AND WALL MIRRORS AND PICTURE-FRAMES. TUSKELOID COMPANY, INC., New York, N. Y.
Filed December 6, 1920. Serial No. 140,695. PUBLISHED AUGUST 23, 1921.

149,529. PYROMETERS AND CERTAIN INDICATING AND RECORDING INSTRUMENTS. UEHLING INSTRUMENT CO., Passaic, N. J., and New York, N. Y.
Filed September 2, 1920. Serial No. 136,773. PUBLISHED AUGUST 23, 1921.

149,530. A PREPARATION FOR USE WHEN DISSOLVED IN WATER IN WASHING AND CLEANING. UNITED SOAP PRODUCTS CO., Rochester, N. Y.
Filed April 15, 1921. Serial No. 146,242. PUBLISHED JULY 19, 1921.

149,531. PAPER DRINKING-CUPS. UNITED STATES ENVELOPE COMPANY, Springfield, Mass.
Filed August 28, 1919. Serial No. 122,095. PUBLISHED AUGUST 23, 1921.

149,532. FERTILIZERS. U. S. INDUSTRIAL CHEMICAL CO., Baltimore, Md.
Filed June 10, 1921. Serial No. 148,958. PUBLISHED AUGUST 23, 1921.

149,533. GOLF-BALLS. UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y.
Filed June 16, 1920. Serial No. 133,806. PUBLISHED SEPTEMBER 6, 1921.

149,534. COTTON HANDKERCHIEFS NOT IN THE PIECE. UNITED TURKEY RED COMPANY, LIMITED, Glasgow, Scotland.
Filed December 16, 1920. Serial No. 141,196. PUBLISHED JULY 5, 1921.

149,535. COTTON PIECE GOODS. UNITED TURKEY RED COMPANY, LIMITED, Glasgow, Scotland.
Filed December 16, 1920. Serial No. 141,197. PUBLISHED JULY 5, 1921.

149,536. CANDY. VAN ANTWERP'S DRUG CORPORATION, INC., Mobile, Ala.
Filed April 19, 1921. Serial No. 146,402. PUBLISHED JULY 19, 1921.

149,537. A NON-ALCOHOLIC MALTLESS BEVERAGE. HARRY W. VAN DORSEN, Pulaski, Va.
Filed September 30, 1920. Serial No. 137,793. PUBLISHED AUGUST 16, 1921.

149,538. A MEDICINAL PREPARATION KNOWN AS A CHILL-TONIC. VAN VLEET-MANSFIELD DRUG CO., Memphis, Tenn.
Filed October 5, 1920. Serial No. 137,979. PUBLISHED JULY 12, 1921.

149,539. VAPORIZING APPARATUS. THE CHARLES ALFRED WALDOCK COMPANY, INC., Baltimore, Md.
Filed October 9, 1920. Serial No. 138,153. PUBLISHED AUGUST 23, 1921.

149,540. CAKE. WARD BAKING COMPANY, New York, N. Y.
Filed April 12, 1921. Serial No. 146,098. PUBLISHED JULY 19, 1921.

149,541. WHEAT-FLOUR. THE WEBER FLOUR MILLS CORPORATION, Salina, Kans.
Filed April 18, 1921. Serial No. 146,348. PUBLISHED JULY 19, 1921.

149,542. WELDING-TORCHES, CUTTING-TORCHES, AND REMOVING-TORCHES, TIPS, AND PARTS THEREOF. "WELDRITE" COMPANY, INCORPORATED, Long Island City, N. Y.
Filed March 9, 1921. Serial No. 144,555. PUBLISHED AUGUST 23, 1921.

149,543. TARGETS AND TRAPS. WESTERN CARTRIDGE COMPANY, East Alton and Springfield, Ill.
Filed June 15, 1921. Serial No. 149,207. PUBLISHED AUGUST 30, 1921.

149,544. TARGETS AND TRAPS. WESTERN CARTRIDGE COMPANY, East Alton and Springfield, Ill.
Filed June 15, 1921. Serial No. 149,208. PUBLISHED AUGUST 30, 1921.

149,545. PAINTS AND VARNISHES—NAMELY, LACQUER FOR COLORING ELECTRIC-LAMP BULBS. WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y.
Filed June 17, 1918. Serial No. 111,637. PUBLISHED AUGUST 30, 1921.

149,546. RAZORS. WESTER BROS., New York, N. Y.
Filed June 11, 1921. Serial No. 149,049. PUBLISHED AUGUST 16, 1921.

149,547. READY-MIXED PAINTS AND VARNISHES. ASAHEL WHEELER COMPANY, Boston, Mass.
Filed August 20, 1920. Serial No. 136,320. PUBLISHED SEPTEMBER 6, 1921.

149,548. CERTAIN PLUMBING SUPPLIES. WHITING-MEAD COMMERCIAL CO., Los Angeles, Calif.
Filed October 5, 1920. Serial No. 137,985. PUBLISHED AUGUST 23, 1921.

149,549. WHEAT-FLOUR. THE WICHITA FLOUR MILLS CO., Wichita, Kans.
Filed April 11, 1921. Serial No. 146,051. PUBLISHED JULY 19, 1921.

149,550. WHEAT-FLOUR. THE WICHITA FLOUR MILLS CO., Wichita, Kans.
Filed April 11, 1921. Serial No. 146,052. PUBLISHED JULY 19, 1921.

149,551. COFFEE. D. C. WINEBRENER & SON, INC., Frederick, Md.
Filed April 19, 1921. Serial No. 146,407. PUBLISHED JULY 19, 1921.

149,552. FURNITURE AND AUTOMOBILE POLISH. WISCONSIN COMPOUNDING COMPANY, Milwaukee, Wis.
Filed June 14, 1921. Serial No. 149,162. PUBLISHED AUGUST 30, 1921.

149,553. CERTAIN NAMED CORRECTIVE FOOT APPLIANCES. WIZARD FOOT APPLIANCE COMPANY, St. Louis, Mo.
Filed March 1, 1920. Serial No. 129,114. PUBLISHED AUGUST 30, 1921.

149,554. SCISSORS. H. WOLFF & Co., New York, N. Y.
Filed June 10, 1921. Serial No. 148,960. PUBLISHED AUGUST 16, 1921.

149,555. POLISH FOR AUTOMOBILES, FLOORS, WOOD AND VARNISHED SURFACES. DANIEL D. WOLFROM, San Francisco, Calif.
Filed June 8, 1920. Serial No. 133,440. PUBLISHED AUGUST 23, 1921.

149,552. A TABLE GAME. Gideon O. Woods, Fargo, N. Dak.
Filed October 20, 1920. Serial No. 136,810. PUBLISHED SEPTEMBER 6, 1921.

149,557. COFFEE. The Woodson Spice Co., Toledo, Ohio.
Filed April 11, 1921. Serial No. 146,955. PUBLISHED JULY 19, 1921.

149,558. DUST-BRUSHES. Worth Down Duster Company, Chicago, Ill.
Filed October 15, 1920. Serial No. 136,367. PUBLISHED AUGUST 30, 1921.

149,559. POLISHES FOR AUTOMOBILES, FURNITURE, FLOORS, AND OTHER PAINTED, VARNISHED, OR OTHERWISE COATED SURFACES. Rosa B. Wright, Washington, D. C.
Filed July 6, 1921. Serial No. 150,086. PUBLISHED SEPTEMBER 6, 1921.

149,567. HAIR-NETS. The Trimmerette Company, New York, N. Y.
Filed June 16, 1921. Serial No. 148,991. PUBLISHED AUGUST 16, 1921.

149,604. BLOOD-PURIFYING SOLUTION USED FOR MEDICINAL PURPOSES. Fisher & Ericson, Gallup, N. Mex.
Filed November 1, 1920. Serial No. 139,046. PUBLISHED AUGUST 16, 1921.

149,608. CORRUGATED-FIBER PACKAGES, FOLDING BOXES, AND PAPER BOXES. J. M. Rapp & Co., Baltimore, Md.
Filed November 8, 1920. Serial No. 139,225. PUBLISHED AUGUST 23, 1921.

149,666. CREAM FOR THE COMPLEXION. Anna M. Reynolds, New York, N. Y.
Filed August 26, 1920. Serial No. 136,496. PUBLISHED AUGUST 16, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

DECEMBER 13, 1921.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

149,561. (CLASS 10. FERTILIZERS.) The American Florist Soil Co., Akron, Ohio. Filed Sept. 1, 1921. Serial No. 152,456.



Particular description of goods.—Plant Food.
Claims use since Aug. 16, 1920.

149,562. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) The Anthony Company, Long Island City, N. Y. Filed Sept. 1, 1920. Serial No. 136,693.

ANTHONY

Particular description of goods.—Pumps, Paint and Water Spraying Devices, Blowers, and Air-Compressors.
Claims use since May 1, 1910.

149,563. (CLASS 18. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) The Anthony Company, Long Island City, N. Y. Filed Sept. 1, 1920. Serial No. 136,695.

ANTHONY

Particular description of goods.—Check-Valves, Tire-Valves, and Liquid-Strainers.
Claims use since May 1, 1910.

149,564. (CLASS 20. MEASURING AND SCIENTIFIC APPLIANCES.) The Anthony Company, Long Island City, N. Y. Filed Mar. 19, 1921. Serial No. 144,955.

ANTHONY

Particular description of goods.—Oil-Meters, Oil-Gages, and Air-Gages.
Claims use since May 1, 1910.

149,565. (CLASS 12. CONSTRUCTION MATERIALS.) Carter Bloxonend Flooring Co., Kansas City, Mo. Filed June 17, 1921. Serial No. 149,269.

BLOXONEND

Particular description of goods.—Wooden Flooring.
Claims use since the fall of 1916.

149,566. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) Joseph D. Caughey, New York, N. Y. Filed Mar. 29, 1921. Serial No. 145,390.

KNICKERBOCKER PLASTER MILLS
DENTAL PLASTER
500-517 West St. N.Y.

KNICKBOCKER

Particular description of goods.—Dental Plaster in Powder Form.
Claims use since the last seventy-two years.

149,567. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Chocolate Products Company, Baltimore, Md. Filed Oct. 1, 1919. Serial No. 123,306.

JANSON

Particular description of goods.—Candy.
Claims use since 1915.

149,568. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MADAM M. G. CLARKE, Cleveland, Ohio. Filed Aug. 3, 1921. Serial No. 151,810.

INDIAN WAX

Particular description of goods.—Certain Named Preparations for the Hair.
Claims use since Feb. 1, 1910.

149,569. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CLIPPER LAWN MOWER COMPANY, Dixon, Ill. Filed Feb. 18, 1921. Serial No. 143,748.

CLIPPER

Particular description of goods.—Mowers, Lawn-Mowers, and Repair Parts Therefor.
Claims use since about Aug. 30, 1898.

149,570. (CLASS 11. INKS AND INKING MATERIALS.) COLUMBIA RIBBON & CARBON MFG. CO., New York, N. Y. Filed Mar. 10, 1921. Serial No. 144,559.

"SILKGAUZE"

Particular description of goods.—Typewriter-Ribbons and Carbon-Paper.
Claims use since January, 1906.

149,571. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE H. C. COOK CO., Ansonia, Conn. Filed Jan. 3, 1921. Serial No. 141,763.

ANSONIA

Particular description of goods.—Nail-Clippers.
Claims use since August, 1905.

149,572. (CLASS 38. PRINTS AND PUBLICATIONS.) J. FISCHER & BRO., New York, N. Y. Filed May 25, 1921. Serial No. 148,221.

FISCHER EDITION

Particular description of goods.—Sheet-Music and Music-Books.
Claims use since Jan. 1, 1919.

149,573. (CLASS 17. TOBACCO PRODUCTS.) CONGRESS CIGAR COMPANY, Philadelphia, Pa. Filed Feb. 5, 1921. Serial No. 143,207.

LA PALINA
LA PALINA
THE QUALITY CIGAR

Particular description of goods.—Cigars.
Claims use since Apr. 4, 1912.

149,574. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) ADOLF FINKENBEINER, Clifton, N. J. Filed June 28, 1921. Serial No. 149,743.

ARMORCLAD

Particular description of goods.—Reliners for Rubber or Leather Tires.
Claims use since Apr. 24, 1920.

149,575. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FITCHBURG MACHINE WORKS, Fitchburg, Mass. Filed Mar. 3, 1921. Serial No. 144,282.

Lo-swing

Particular description of goods.—Lathes.
Claims use since March, 1905.

149,576. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) JOHN GANE, New York, N. Y. Filed July 18, 1921. Serial No. 150,524.

HOHELUFT

Particular description of goods.—Thoroughbred Dogs.
Claims use since Jan. 16, 1920.

149,577. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) GENERAL PHONOGRAPH CORPORATION, New York, N. Y. Filed Sept. 3, 1920. Serial No. 136,795.

MEISSELBACH

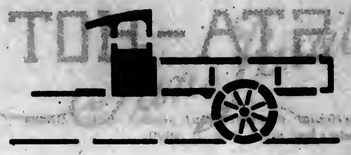
Particular description of goods.—Talking-Machines, Phonographs, and Certain Named Phonograph Parts and Accessories.
Claims use since about July, 1913.

149,578. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GODDARD TOOL COMPANY, Chicago, Ill. Filed May 16, 1921. Serial No. 147,777.

GODDARD

Particular description of goods.—Metal-Working Milling Tools and Hobs.
Claims use since Nov. 2, 1916.

149,579. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) GRAHAM BROTHERS, Evansville, Ind. Filed July 29, 1918. Serial No. 112,385.



Particular description of goods.—Wheeled Trucks Adapted to be Attached to Motor-Cars.
Claims use since Jan. 14, 1918.

149,580. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS. THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J. Filed Sept. 16, 1921. Serial No. 152,906.

KLEEN SWEEP

Particular description of goods.—Sweeping Compound in Flake Form.
Claims use since about Nov. 1, 1913.

149,581. CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) D. P. HARRIS HARDWARE & MANUFACTURING CO., INC., New York, N. Y. Filed Apr. 7, 1921. Serial No. 145,825.

GOLD MEDAL

Particular description of goods.—Bicycles.
Claims use since about Apr. 8, 1920.

149,582. (CLASS 2. RECEPTACLES.) HOT LUNCH BOX COMPANY, Milwaukee, Wis. Filed Sept. 14, 1920. Serial No. 137,174.

STA-HOT

Particular description of goods.—Lunch-Boxes.
Claims use since Aug. 3, 1920.

149,583. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) HOWE RUBBER CORPORATION, New Brunswick, N. J. Filed June 18, 1920. Serial No. 133,879.

HOWE

Particular description of goods.—Automobile Tires and Tubes of Rubber.
Claims use since August, 1905.

149,584. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) JOHN OLIVER JOHNSON, Chicago, Ill. Filed June 3, 1921. Serial No. 145,599.

MORGAN PARK

Particular description of goods.—Lawn Grass-Seeds.
Claims use since about Feb. 20, 1920.

149,585. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KOEHRING MACHINE COMPANY, Milwaukee, Wis., assignors to Koehring Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed June 15, 1921. Serial No. 149,187.

HEAVY DUTY

Particular description of goods.—Concrete-Mixers, Concrete-Distributing Machines, Loading-Skips, Paving-Machines, and Traction-Graders.
Claims use since Jan. 29, 1916.

149,586. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) LASSERE & BAMBERGER, INC., New York, N. Y. Filed Dec. 23, 1920. Serial No. 141,463.

LOUVAINE

Particular description of goods.—Artificial Pearls; Precious, Semi-Precious, and Imitation Jewels.
Claims use since about Nov. 15, 1919.

149,587. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) DAVID H. LEACH, Sacramento, Calif. Filed May 26, 1921. Serial No. 148,285.

The California

Particular description of goods.—Talking-Machines.
Claims use since Dec. 29, 1916.

149,588. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) S. J. LEVY, San Francisco, Calif. Filed Sept. 16, 1920. Serial No. 137,262.

SIMPLEX

Particular description of goods.—Bottle-Capping Machines.
Claims use since July 25, 1920.

149,589. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE LODGE & SHIPLEY MACHINE TOOL CO., Cincinnati, Ohio. Filed July 18, 1921. Serial No. 150,544.

SELECTIVE

Particular description of goods.—Lathe-Heads.
Claims use since June 6, 1913.

149,590. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LUDLOW TYPOGRAPH COMPANY, Chicago, Ill. Filed June 25, 1920. Serial No. 134,205.

LUDLOW

Particular description of goods.—Typograph Mechanism, Line-Casting and other Machines and Appliances, and Parts Thereof.
Claims use since 1914.

149,591. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MCKENNA BRASS AND MANUFACTURING CO., INC., Pittsburgh, Pa. Filed May 18, 1921. Serial No. 147,885.

SHIELDS

Particular description of goods.—Certain Bottle-Treating Machines, Fruit-Treating and Fruit-Canning Machinery, and Carbonating-Machines.
Claims use since about February, 1900.

149,592. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) MARCHANT CALCULATING MACHINE COMPANY, Oakland, Calif. Filed May 20, 1921. Serial No. 147,976.

MARCHANT

Particular description of goods.—Calculating-Machines.
Claims use since July 4, 1911.

149,593. CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed November 27, 1920. Serial No. 140,266.

Hospital Gauze

Particular description of goods.—Bleached Gauze for Medicinal and Surgical Purposes.
Claims use since 1906.

149,594. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HAROLD H. MATHES, Albany, N. Y. Filed Feb. 23, 1921. Serial No. 143,992.

Sans Pareil

Particular description of goods.—Shampoo and Hair-Tonic.
Claims use since June 22, 1920.

149,595. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE W. G. NAGEL ELECTRIC CO., Toledo, Ohio. Filed Feb. 26, 1921. Serial No. 144,097.

NAGEL

Particular description of goods.—Ammeters and Voltmeters, Oil-Pressure Gages, and Oil-Indicators.
Claims use since March, 1915.

149,596. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE W. G. NAGEL ELECTRIC CO., Toledo, Ohio. Filed Feb. 26, 1921. Serial No. 144,098.

NAGEL

Particular description of goods.—Ammeters and Voltmeters, Oil-Pressure Gages, and Oil-Indicators.
Claims use since March, 1915.

149,597. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) NATIONAL ENAMELING & STAMPING CO., Milwaukee, Wis., and Baltimore, Md. Filed June 17, 1921. Serial No. 149,292.

ROCKWEAVE

Particular description of goods.—Woven Wicks.
Claims use since Oct. 1, 1919.

149,598. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE NATIONAL TOOL COMPANY, Cleveland, Ohio. Filed Apr. 22, 1921. Serial No. 146,578.

NATIONAL-CLEVELAND TOOLS

Particular description of goods.—Certain Metal-Working Tools.
Claims use since about January, 1917.

149,599. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) E. & S. NIPPLE COMPANY, Boston, Mass. Filed July 18, 1921. Serial No. 150,555.

Feed-Rite

Particular description of goods.—Nursing-Nipples.
Claims use since July 1, 1919.

149,600. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) NICHTHAUSER & LEVY, Brooklyn, N. Y. Filed Feb. 24, 1920. Serial No. 128,850.



Particular description of goods.—Certain Named Tin, Copper, Galvanized, and Japanned Ware.
Claims use since July, 1905.

149,601. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) D. M. OBERMAN MANUFACTURING COMPANY, Jefferson City and California, Mo. Filed July 12, 1920. Serial No. 134,844.



Particular description of goods.—Woolen Piece Goods.
Claims use since June 15, 1920.

149,602. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) O'BRIEN VARNISH COMPANY, South Bend, Ind. Filed Sept. 3, 1921. Serial No. 152,560.

O'BRIEN'S
SOUTH BEND WHITE ENAMEL

Particular description of goods.—White Enamel.
Claims use since Aug. 1, 1913.

149,603. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) MAYME J. PEPPARD, Minneapolis, Minn. Filed Oct. 9, 1920. Serial No. 138,135.

"We Sell Marcel"

Particular description of goods.—Hair-Curlers.
Claims use since Sept. 1, 1920.

149,605. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PRESTON CHEMICAL CO. INC., Brooklyn, N. Y. Filed May 5, 1921. Serial No. 147,257.

MUSCLETONE

Particular description of goods.—A Preparation for Certain Named Purposes.
Claims use since 1916.

149,607. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRIET BURCHETT REID, Memphis, Tenn. Filed Aug. 30, 1921. Serial No. 152,382.

NEVER FAIL

Particular description of goods.—Hair Growing and Dressing Preparations.
Claims use since October, 1914.

149,609. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) JOHN A. RING, York, Pa. Filed Oct. 11, 1921. Serial No. 153,994.

MASON'S MAIZE
MAH-TAY

Particular description of goods.—A Maltless Soft Drink.
Claims use since Feb. 1, 1920.

149,610. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ROCKFORD MILLING MACHINE COMPANY, Rockford, Ill. Filed Dec. 28, 1920. Serial No. 141,604.

Sundstrand

Particular description of goods.—Calculating Machines.
Claims use since Aug. 28, 1918.

149,611. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) G. G. ROBERTS CORPORATION, Whitman, Mass. Filed Jan. 15, 1921. Serial No. 142,304.

CRISPIN

Particular description of goods.—Channel-Nails.
Claims use since Jan. 2, 1905.

149,612. (CLASS 33. GLASSWARE.) SCHRAM GLASS MANUFACTURING COMPANY, Hillsboro, Ill., and St. Louis, Mo. Filed Aug. 29, 1921. Serial No. 152,353.

-DREY-

Particular description of goods.—Glass Fruit-Jars.
Claims use since about Feb. 1, 1908.

149,613. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) T. F. SHURLY CO. LIMITED, St. Catharines, Ontario, Canada. Filed Nov. 11, 1920. Serial No. 139,552.



The following, being a disclaimer, is not part of the trade-mark—to wit, "St. Catharines," "Vanadium Steel," "Patent Ground," "The Saw," "Extra Temper," "Unequaled in Quality, Uniformity and Service," and "Trade Mark."
Particular description of goods.—Saws of All Kinds and Machine-Knives.
Claims use since July, 1916.

149,614. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed June 14, 1920. Serial No. 133,709.

QUEENSBORO

Particular description of goods.—Talking-Machines and Phonographs.
Claims use since on or about Feb. 1, 1920.

149,615. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SPANISH AMERICAN FRUIT CO. INC., Plainfield, N. J. Filed Aug. 18, 1921. Serial No. 151,926.

GRAPE FRUIT HEARTS

Particular description of goods.—Canned Grapefruit.
Claims use since July, 1920.

149,616. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921. Serial No. 151,428.

LENOX

Particular description of goods.—Cotton-Batting, Particularly Glazed-Cotton Wadding.
Claims use since Nov. 1, 1899.

149,617. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921. Serial No. 151,429.

LAWRENCE

Particular description of goods.—Cotton-Batting, Particularly Glazed-Cotton Wadding.
Claims use since Nov. 3, 1906.

149,618. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921. Serial No. 151,430.

VERNON

Particular description of goods.—Cotton-Batting, Particularly Glazed-Cotton Wadding.
Claims use since May 1, 1901.

149,619. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Village of Lockland, Ohio. Filed Aug. 4, 1921. Serial No. 151,434.

DEXTER

Particular description of goods.—Cotton-Batting, Particularly Glazed-Cotton Wadding.
Claims use since Nov. 1, 1899.

149,620. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) STURGIS STEEL GO-CART CO., Sturgis, Mich. Filed May 13, 1921. Serial No. 147,685.

Sturgis

Particular description of goods.—Baby Carriages and Gocarts.
Claims use since 1908.

149,621. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE UNITED STATES ASPHALT REFINING COMPANY, New York, N. Y. Filed Aug. 5, 1921. Serial No. 151,496.

BEST-O-MASTIC

Particular description of goods.—Asphaltum-Base Paint.
Claims use since May 1, 1918.

149,622. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WASH WITH EASE COMPANY, Chicago, Ill. Filed Aug. 29, 1921. Serial No. 152,356.



Particular description of goods.—Clothes-Washing Powder.
Claims use since Sept. 15, 1915.

149,623. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FREDERICK A. WATKINS, Chicago, Ill. Filed Nov. 22, 1920. Serial No. 139,997.

WHISPERING MOUTHPIECE

Particular description of goods.—Telephone-Mouthpieces.
Claims use since Mar. 1, 1913.

149,624. (CLASS 12. CONSTRUCTION MATERIALS.) WESTERN WALLBOARD CO., Seattle, Wash. Filed July 25, 1921. Serial No. 150,948.



Particular description of goods.—Wall-Board.
Claims use since Dec. 15, 1910.

149,625. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WESTINGHOUSE UNION BATTERY CO., Swissvale, Pa. Filed Aug. 15, 1921. Serial No. 151,815.

WESTINGHOUSE

Particular description of goods.—Secondary Batteries and Connectors Therefor.
Claims use since July 1, 1920.

149,626. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) HENRY WILHELM COMPANY, Pittsburgh, Pa. Filed Dec. 30, 1920. Serial No. 141,709.

NUPROCESS

Particular description of goods.—Louisiana Moss Used Principally for Upholstering Purposes.
Claims use since Oct. 1, 1920.

149,627. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) YORK HEATING AND VENTILATING CORPORATION, Philadelphia, Pa. Filed July 13, 1921. Serial No. 150,341.

YORK

Particular description of goods.—Dust-Collectors, Dust-Separators, Hoods, Fans, and Blowers.
Claims use since Nov. 14, 1919.

149,628. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FREDERICK H. YOUNG, Toledo, Ohio. Filed Mar. 10, 1921. Serial No. 144,590.

DAY-TIME

Particular description of goods.—Toilet Cream.
Claims use since May, 1909.

LABELS

REGISTERED DECEMBER 13, 1921.

23,719.—*Title:* "STATE HIGHWAY." (For Cigar-Boxes for Cigars.) KNUTE ANDERSEN, Wausaukee, Wis. Filed September 10, 1921.

23,720.—*Title:* "KREMOLA." (For Skin-Cream.) DR. C. H. BERRY COMPANY, Chicago, Ill. Filed September 23, 1921.

23,721.—*Title:* "DREAMY DAWN." (For Candy.) VAL. BLATZ JR. CANDY CO., Milwaukee, Wis. Filed September 13, 1921.

23,722.—*Title:* "FRAP-O." (For Syrup of Wild-Cherry Flavor.) BERCHET & RICHTER COMPANY, Minneapolis, Minn. Filed July 25, 1921.

23,723.—*Title:* "BURD QUICK SEATING PISTON RINGS." (For Piston-Rings.) BURD HIGH COMPRESSION RING COMPANY, Rockford, Ill. Filed August 15, 1921.

23,724.—*Title:* "GOLDEN CRUST LOAF." (For Bread.) CALIFORNIA BAKERY COMPANY, Bisbee, Ariz. Filed September 19, 1921.

23,725.—*Title:* "CANDY CRAFT BUBBLE BOX," (For Boxes for Candy Craft Bubble Box.) THE CANDY CRAFT SHOPS, INC., Chicago, Ill. Filed April 15, 1920.

23,726.—*Title:* "MUSSOLINO." (For Cigars.) COLE LITHOGRAPHING & PRINTING CO, Chicago, Ill. Filed August 4, 1921.

23,727.—*Title:* "MALT *and* HOPS." (For Syrup.) CROKER PACKING CO., San Francisco, Calif. Filed October 17, 1921.

23,728.—*Title:* "WHITE BANNER." (For Hops.) DECATUR BREWING COMPANY, Decatur, Ill. Filed October 17, 1921.

23,729.—*Title:* "FOOTHILL BRAND HONEY." (For Honey.) JAS. FERGUSON, Santa Barbara, Calif. Filed August 30, 1921.

23,730.—*Title:* "HOLLANDYKE." (For Candy-Boxes.) THE C. J. FOX COMPANY, Providence, R. I. Filed June 4, 1921.

23,731.—*Title:* "WHITEWINGS." (For Candy-Boxes.) THE C. J. FOX COMPANY, Providence, R. I. Filed September 14, 1921.

23,732.—*Title:* "GEYER'S DETACHABLE SWINGING WASH-BOILER APRON." (For Washboiler-Apron.) EDGAR GEYER, Silver Creek, Nebr. Filed June 24, 1921.

23,733.—*Title:* "LE CHAPEAU CHIC." (For Ladies' and Children's Hats.) THE GOULD MILLINERY CO., INC., Los Angeles, Calif. Filed January 31, 1921.

23,734.—*Title:* "HYGLO HAIR NET." (For Hair-Nets.) GRAF BROS. INC., New York, N. Y. Filed September 20, 1921.

23,735.—*Title:* "WITH ALL GOOD WISHES." (For Hosiery.) HOLEPROOF HOSIERY CO., Milwaukee, Wis. Filed October 25, 1921.

23,736.—*Title:* "BRIOLINE FOR DRESSING THE HAIR." (For Liquid Hair-Dressers.) IMPERIAL PERFUME CO., New York, N. Y. Filed July 7, 1921.

23,737.—*Title:* "MARCELLA." (For Canned Peas.) INDERRIEDEN CANNING CO., Chicago, Ill. Filed September 6, 1921.

23,738.—*Title:* "CREAM-ON." (For Powdered Milk.) INTERNATIONAL DRY MILK CO., Minneapolis, Minn. Filed October 22, 1921.

23,739.—*Title:* "CUP AND SAUCER." (For Coffee.) JOHNSON-EARL MEYERS CO., Pittsburgh, Pa. Filed September 14, 1921.

23,740.—*Title:* "BRIARCLIFF MILK CHOCOLATES." (For Candies.) LOFT, INC., New York, N. Y. Filed October 25, 1921.

23,741.—*Title:* "TOMATO PASTE." (For Tomato Paste.) LATORRACA BROS., New York, N. Y. Filed October 25, 1921.

23,742.—*Title:* "B. V. MAY." (For Hosiery.) THE MAY HOSIERY MILLS, Burlington, N. C. Filed September 28, 1921.

23,743.—*Title:* "LAK-SIDE BRAND BUTTER." (For Cartons Containing Butter.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Sencabaugh Company, Cleveland, Ohio. Filed September 15, 1921.

23,744.—*Title:* "DOLFINGER'S." (For Cartons Containing Butter.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Henry Dolfinger, Philadelphia, Pa. Filed September 15, 1921.

23,745.—*Title:* "CROWELL'S WICCO." (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Waterloo Ice Cream Company, Waterloo, Iowa. Filed September 15, 1921.

23,746.—*Title:* "THE CREAM SUPREME." (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Los Angeles Creamery Company, Los Angeles, Calif. Filed September 15, 1921.

23,747.—*Title:* "TIP TOP." (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Vincennes Milk & Ice Cream Company, Vincennes, Ind. Filed September 19, 1921.

23,748.—*Title:* "MISSOURI." (For Overalls.) G. D. MILLIGAN GROCER CO., Springfield, Mo. Filed October 5, 1921.

23,749.—*Title:* "OLD MEXICAN CACTUS CANDY." (For Boxes Containing Candy.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed October 21, 1921.

23,750.—*Title:* "THE FAMOUS AGOUROLADON." (For Olive-Oil.) MOREAS IMPORTING & EXPORTING CO., Chicago, Ill. Filed September 1, 1921.

23,751.—*Title:* "PRUNO-LAX." (For Laxatives.) MARIANO MORVILLO, New York, N. Y. Filed September 20, 1921.

23,752.—*Title:* "HEATHMADE ARROW BRAND BUTTER." (For Butter.) MOTT & WOOD CO., Wisconsin Rapids, Wis. Filed September 24, 1921.

23,753.—*Title:* "NORTHRUP, KING & CO.'S SPECIAL SCRATCH FEED." (For Bags of Poultry Feed.) NORTHRUP, KING & CO., Minneapolis, Minn. Filed September 19, 1921.

23,754.—*Title:* "FINE CLIMAX EGG NOODLES." (For Noodles.) THE PFAFFMANN EGG NOODLE CO., Cleveland, Ohio. Filed September 19, 1921.

23,755.—*Title:* "BROAD CLIMAX EGG NOODLES." (For Noodles.) THE PFAFFMANN EGG NOODLE CO., Cleveland, Ohio. Filed September 19, 1921.

23,756.—*Title:* "BROAD STAR NOODLES." (For Noodles.) THE PFAFFMANN EGG NOODLE CO., Cleveland, Ohio. Filed September 19, 1921.

23,757.—*Title:* "FINE STAR NOODLES." (For Noodles.) THE PFAFFMANN EGG NOODLE CO., Cleveland, Ohio. Filed September 19, 1921.

23,758.—*Title:* "RED-D-CUT MACARONI." (For Macaroni.) THE PFAFFMANN EGG NOODLE CO., Cleveland, Ohio. Filed September 19, 1921.

23,759.—*Title:* "REAL SILK FASHIONED HOSIERY." (For Containers for Hosiery.) REAL SILK HOSIERY MILLS, Indianapolis, Ind. Filed October 19, 1921.

23,760.—*Title:* "REAL SILK FASHIONED HOSIERY." (For Containers for Hosiery.) REAL SILK HOSIERY MILLS, Indianapolis, Ind. Filed October 19, 1921.

23,761.—*Title:* "REAL SILK HOSE." (For Containers for Hose.) REAL SILK HOSIERY MILLS, Indianapolis, Ind. Filed October 19, 1921.

23,762.—*Title:* "LADY PRIM." (For Hair-Nets.) CHAS. RUBENS & CO., Chicago, Ill. Filed August 22, 1921.

23,763.—*Title:* "THE NOBLE LADY." (For Hair-Nets.) SAMSTAG & HILDER BROS., New York, N. Y. Filed October 19, 1921.

23,764.—*Title:* "TAILORED-READY ART CLOTHES." (For Clothing.) SANDERS AND WEINSTEIN, New York, N. Y. Filed February 7, 1921.

23,765.—*Title:* "SALLY." (For Cigars.) GEORGE L. SCHULZ, Saginaw, Mich. Filed August 26, 1921.

23,766.—*Title:* "PURE FRESH GRATED HORSE RADISH." (For Bottles or Jars of Horse-Radish.) SITTLER BROTHERS, Chicago, Ill. Filed June 8, 1921.

23,767.—*Title:* "MARVELLO WASHING POWDER." (For Cartons Containing the Washing Powder.) MRS. EMILY SLOAN, Los Angeles, Calif. Filed January 2, 1920.

23,768.—*Title:* "KLIP." (For Cigars.) CHARLES HENRY SOLLIDAY, Dayton, Ohio. Filed July 28, 1921.

23,769.—*Title:* "PEARL OIL." (For Five-Gallon Cans Containing Illuminating and Heating Oils, and on the Cases in Which the Said Cans are Packed.) STANDARD OIL COMPANY, San Francisco, Calif. Filed August 18, 1921.

23,770.—*Title:* "NO RAT." (For Containers for a Rat-Exterminator.) TRIANGLE CHEMICAL CO., Chicago, Ill. Filed October 20, 1921.

23,771.—*Title:* "NO-BED BUG." (For Containers for a Bedbug-Exterminator.) TRIANGLE CHEMICAL CO., Chicago, Ill. Filed October 20, 1921.

23,772.—*Title:* "NO-ROACH." (For Containers for a Roach-Exterminator.) TRIANGLE CHEMICAL CO., Chicago, Ill. Filed October 20, 1921.

23,773.—*Title:* "NO-INSECT." (For Containers for an Insect-Exterminator.) TRIANGLE CHEMICAL CO., Chicago, Ill. Filed October 20, 1921.

23,774.—*Title:* "GAINSBOROUGH GENUINE HAIR NET." (For Hair-Nets.) WESTERN BOTTLE MANUFACTURING COMPANY, Chicago, Ill. Filed August 27, 1921.

23,775.—*Title:* "TAGGART'S WONDER BREAD." (For Bread.) TAGGART BAKING COMPANY, Indianapolis, Ind. Filed October 17, 1921.

23,776.—*Title:* "WARD'S POUND CAKE." (For Cake.) WARD BAKING COMPANY, New York, N. Y. Filed September 23, 1921.

23,777.—*Title:* "PETER RABBIT'S RACE GAME." (For Cover of Box Containing the Game.) FREDERICK WARNE & CO. LTD., New York, N. Y. Filed August 5, 1921.

23,778.—*Title:* "SPARK-C." (For Electrical Apparatus, Machinery, and Supplies, Particularly Potential Detectors.) WESTINGHOUSE LAMP COMPANY, Bloomfield, N. J. Filed October 19, 1921.

23,779.—*Title:* "PECONUT CRISP." (For a Nut Confection in the Form of Candy.) WESTMORELAND CANDY COMPANY, INC., Richmond, Va. Filed August 30, 1921.

23,780.—*Title:* "SILVERINE." (For Toilet-Paper.) CLINTON R. WHITE, Chicago, Ill. Filed August 26, 1921.

23,781.—*Title:* "WORLD WIDE." (For Toilet-Paper.) CLINTON R. WHITE, Chicago, Ill. Filed August 26, 1921.

23,782.—*Title:* "GOLD BAND." (For Toilet-Paper.) CLINTON R. WHITE, Chicago, Ill. Filed August 26, 1921.

23,783.—*Title:* "EQUATOR." (For Toilet-Paper.) CLINTON R. WHITE, Chicago, Ill. Filed August 26, 1921.

23,784.—*Title:* "CANYON." (For Toilet-Paper.) CLINTON R. WHITE, Chicago, Ill. Filed August 26, 1921.

23,785.—*Title:* "COAST TO COAST." (For Toilet-Paper.) CLINTON R. WHITE, Chicago, Ill. Filed August 26, 1921.

23,786.—*Title:* "DELTA." (For Toilet-Paper.) CLINTON R. WHITE, Chicago, Ill. Filed August 26, 1921.

PRINTS

REGISTERED DECEMBER 13, 1921.

5,845.—*Title:* "BLUE BAND VELVET PENCIL." (For Advertising Purposes for Lead-Pencils.) AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed October 20, 1921.

5,846.—*Title:* "VENUS PENCILS C 37." (For Advertising Purposes for Lead-Pencils.) AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed October 20, 1921.

5,847.—*Title:* "VENUS PENCILS C 38." (For Advertising Purposes for Lead-Pencils.) AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed October 20, 1921.

5,848.—*Title:* "VENUS COPYING PENCILS." (For Advertising Purposes for Copying-Pencils.). AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed October 20, 1921.

5,849.—*Title:* "VENUS THIN LEADS." (For Advertising Purposes for Lead-Pencils.) AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed October 20, 1921.

5,850.—*Title:* "INK-RAU INDELIBLE DUPLICATING PENCIL." (For Advertising Purposes for Indelible Pencils.) AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed October 20, 1921.

5,851.—*Title:* "VENUS EVERPOINTED PENCILS." (For Advertising Purposes for Lead-Pencils.) AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed October 24, 1921.

5,852.—*Title:* "QUINBY'S." (For Advertising Purposes for Chocolates.) CALIFORNIA CHOCOLATE SHOPS, INC., Los Angeles, Calif. Filed December 21, 1920.

5,853.—*Title:* "DICKINSON'S SNOW BALL POP CORN." (For Advertising Purposes for Dickinson's Popcorn.) THE ALBERT DICKINSON COMPANY, Chicago, Ill. Filed November 1, 1921.

5,854.—*Title:* "DICKINSON'S SANTA CLAUS POP CORN." (For Advertising Purposes for Dickinson's Popcorn.) THE ALBERT DICKINSON COMPANY, Chicago, Ill. Filed November 1, 1921.

5,855.—*Title:* "NEW ENGLAND SCHOOL ROOM SCENE." (For Advertising Purposes for Jell-O.) THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Filed September 6, 1921.

5,856.—*Title:* "THE LINN BALL STRAWBERRY JELL-O." (For Advertising Purposes for Jell-O.) THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Filed October 3, 1921.

5,857.—*Title:* "THE SOUTHERN SCENE." (For Advertising Purposes for Jell-O.) THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Filed October 3, 1921.

5,858.—*Title:* "THE LINN BALL PANEL." (For Advertising Purposes for Jell-O.) THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Filed October 18, 1921.

5,859.—*Title:* "REALIZATION." (For Advertising Purposes for Gas-Heaters.) THE J. H. GRAYSON MANUFACTURING CO., Athens, Ohio. Filed October 28, 1921.

5,860.—*Title:* "ANTICIPATION." (For Advertising Purposes for Gas-Heaters.) THE J. H. GRAYSON MANUFACTURING CO., Athens, Ohio. Filed October 28, 1921.

5,861.—*Title:* "EXPECTATION." (For Advertising Purposes for Gas-Heaters.) THE J. H. GRAYSON MANUFACTURING CO., Athens, Ohio. Filed October 28, 1921.

5,862.—*Title:* "QUALITY INN." (For Advertising Purposes for Coffee.) HILLS BROS., San Francisco, Calif. Filed August 16, 1921.

5,863.—*Title:* "THOROUGHBREDS." (For Advertising Purposes for Coffee.) HILLS BROS., San Francisco, Calif. Filed August 16, 1920.

5,864.—*Title:* "THE WINNING CUP." (For Advertising Purposes for Coffee.) HILLS BROS., San Francisco, Calif. Filed August 16, 1921.

5,865.—*Title:* "SUSANNE." (For Advertising Purposes for Flour.) HOLLAND-O'NEAL MILLING CO., Springfield, Mo. Filed March 24, 1920.

5,866.—*Title:* "KANT-RUST." (For Advertising Purposes for Rust Preventing and Removing Compositions.) KANT-RUST PRODUCTS CORPORATION, Rahway, N. J. Filed October 31, 1921.

5,867.—*Title:* "REMOVE ALL DOUBT! ORDER 'PARTRIDGE' HAM AND BACON." (For Advertising Purposes for Ham and Bacon.) THE H. H. MEYER PACKING COMPANY, Cincinnati, Ohio. Filed October 8, 1921.

5,868.—*Title:* "THE NISS PLAN." (For Advertising Purposes for Furniture for Homes.) C. NISS & SONS, INC., Milwaukee, Wis. Filed June 10, 1921.

5,869.—*Title:* "THE NISS PLAN." (For Advertising Purposes for Furniture for Homes.) C. NISS & SONS, INC., Milwaukee, Wis. Filed June 10, 1921.

5,870.—*Title:* "THE PICTURE HE CARRIES AWAY." (For Advertising Purposes for Palmolive Soap.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed October 20, 1921.

5,871.—*Title:* "ITS FLAVOR MEANS PLEASURE ITS PURITY MEANS HEALTH." (For Advertising Purposes for Ice-Cream.) PEERLESS ICE CREAM CO., Sacramento, Calif. Filed September 3, 1921.

5,872.—*Title:* "'AMORECO' IS KING OF ALL MOTOR GASOLINES." (For Advertising Purposes for Gasolene.) JAMES P. POWERS, Buffalo, N. Y., assignor to James P. Powers, Johanna M. Carberry, and Mary A. Powers, Buffalo, N. Y., as trustees for New Process Refining Company, Buffalo, N. Y. Filed July 11, 1921.

5,873.—*Title:* "'AMORECO' IS KING OF ALL MOTOR GASOLINES." (For Advertising Purposes for Gasolene.) JAMES P. POWERS, Buffalo, N. Y., assignor to James P. Powers, Johanna M. Carberry, and Mary A. Powers, Buffalo, N. Y., as trustees for New Process Refining Company. Filed July 11, 1921.

5,874.—*Title:* "REMINGTON." (For Advertising Purposes for Typewriters.) REMINGTON TYPEWRITER CO., INC., New York, N. Y. Filed October 12, 1921.

5,875.—*Title:* "SCHRADER-UNIVERSAL VALVE CAPS." (For Advertising Purposes for Valve-Caps.) A. SCHRADER'S SON, INCORPORATED, Brooklyn, N. Y. Filed September 21, 1921.

5,876.—*Title:* "WILFUL DESTRUCTION." (For Advertising Purposes for Tire-Pressure Gages.) A. SCHRADER'S SON, INCORPORATED, Brooklyn, N. Y. Filed September 28, 1921.

5,877.—*Title:* "GOODYEAR TONSIL INSTRUMENT." (For Advertising Purposes for Removal of Tonsils.) THE MAX WOCHER & SON CO., Cincinnati, Ohio. Filed July 18, 1921.

DECISIONS
OF THE
COMMISSIONER OF PATENTS
AND OF
UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

U. S. Circuit Court of Appeals—Sixth Circuit.

TROY WAGON WORKS v. OHIO TRAILER CO.

Decided July 27, 1921.

[274 Fed. Rep., 612.]

1. PATENTS—DEVICE HELD NOT AN INVENTION.
A device to steer an automobile-trailer by means of a draft-bar attached to a truck pulling a trailer *Held* too closely allied in art to the steering-gear of an automobile to be patentable.

2. SAME—EXTENSION REARWARD AND DOWNWARD OF DRAFT BAR HELD NOT NEW AND NOVEL IN ART.
Extension rearward and downward of a draft-bar, used in the steering apparatus of a trailer pulled behind a truck or automobile, is not new or novel in the art, so as to be patentable.

3. WITNESSES—OFFICIAL OF CORPORATION WHICH IS A PARTY TO THE SUIT IS COMPETENT WITNESS.
That a witness is secretary and treasurer of corporation which is a party to the suit does not disqualify him as a witness.

4. APPEAL AND ERROR—OBJECTION TO TESTIMONY OF WITNESS, BECAUSE TESTIMONY IN ANOTHER SUIT WAS DIFFERENT, DISREGARDED, WHERE RECORD DOES NOT SHOW CROSS-EXAMINATION.
If testimony of a witness in another suit was different from his testimony in the present suit, such inconsistency should be brought into the record by cross-examination, and in the absence thereof the objection will be disregarded on appeal.

5. PATENTS—IMPROVEMENT IN MACHINERY, OBVIOUS TO ONE SKILLED IN MECHANICAL WORK, IS NOT PATENTABLE.
Where an improvement in machinery was made by one skilled in mechanical work and was obvious to any person so skilled, the improvement is not patentable.

6. SAME—DEVICE HELD NOT PATENTABLE.
Reversible trucks or dump-wagons, with a pivoted draft-bar at each end, which is connected to the wheels for steering purposes, and which may be locked to the wagon bed or frame in a central position when the truck is being drawn from the opposite end, are not patentable merely because of an automatic locking device to keep the apparatus out of operation at certain times.

7. SAME—AUTOMATIC LOCKING-STEERING DEVICE HELD NOT TO BE AN INVENTION.
Where similar steering devices had been invented prior to the addition of an automatic lock, the addition of the lock does not constitute an invention; the mere adaptation of an old element to a specific use not being an invention, unless the combination produces a new result or an old result in a new and materially better way.

8. SAME—DEVICE HELD NOT TO BE AN INVENTION.
The combination of an automatic lock, which is in itself new and novel, with other locking devices, to keep the locking-gear out of operation, does not amount to an invention sufficient for patent, covering the combination with any and all forms of automatic locks, although the new device in itself may be patentable.

9. SAME—NO. 1,214,037, FOR IMPROVEMENT IN STEERING MECHANISM ADAPTED TO TRAILER-TRUCKS, HELD VOID FOR LACK OF INVENTION.
The Hudson patent, No. 1,214,037, claims 1, 2, 3, and 4, for steering device for trailers, *Held* invalid for lack of invention.

10. SAME—NO. 1,117,816, CLAIMS 6, 7, AND 8, HELD INVALID.
The Eccard and Smith patent, No. 1,117,816, claims 6, 7, and 8, for an improvement in reversible trucks or dump-wagons, *Held* invalid.

11. SAME—NO. 1,117,816, CLAIM 9, HELD VALID, BUT NOT INFRINGED.
The Eccard and Smith patent, No. 1,117,816, claim 9, for an improvement in reversible trucks or dump-wagons, *Held* valid, but not infringed.

APPEAL from the District Court of the United States for the Eastern Division of the Northern District of Ohio; D. C. Westenhaver, Judge.

Suit by the Troy Wagon Works Company against the Ohio Trailer Company. From decree for defendant, plaintiff appeals. Affirmed.

Mr. H. A. Toulmin (*Mr. H. A. Toulmin, Jr.*, on the brief) for the appellant.

Mr. Lincoln B. Smith (*Mr. G. E. Dunston*, and *Messrs. Miller, Chindahl & Parker* and *Mr. C. Paul Parker* on the brief) for appellee.

Before KNAPPEN, DENISON, and DONAHUE, Circuit Judges.

DONAHUE, *Cir. J.*:

This is an appeal from a decree of the United States District Court, Northern District of Ohio, Eastern Division, finding and adjudging Patent No. 1,214,037, issued to W. R. Hudson, January 30, 1917, and now owned by appellant, null and void for want of invention; that claims 6, 7, and 8 of Letters Patent No. 1,117,816, issued to John F. Eccard and Jacob Smith, November 17, 1914, are invalid; and that claim 9 of this patent is valid, but not infringed.

The Hudson patent, No. 1,314,037, relates to improvements in the steering mechanism particularly adapted for trailer-trucks, and this suit involves

all the claims of that patent, which claims are printed in the margin.[1]

It is unnecessary in this case to repeat what was said in the opinion in the recent case of *Troy Wagon Works Co.* v. *Ohio Trailer Co.* (No. 2482) (272 Fed., 850) in reference to the old and well-known elements entering into the steering mechanism of appellant's present construction. It is sufficient to say that for the reasons stated and citations given in that opinion, claims 1, 2, 3, and 4 of the Hudson patent in suit cover nothing that is new or novel in the art, nor do they cover a combination of old elements that produce a new result or an old result in a new and materially better way.

[1] Counsel for appellant insists, however, that the prior patent art, cited by appellee, relates solely to automobile construction, and has no relation or application whatever to trailer-trucks, for the reason that the steering mechanism of an automobile is controlled by the steering-wheel operated by the driver of an automobile, while the steering of the trailer-truck is wholly mechanical. It is clearly evident, however, that automobile construction, if not in the same art, is at least in a closely-allied art. The steering mechanism of the automobile is readily adaptable to a trailer-truck, the only difference being that in the automobile the force necessary to operate the mechanism is applied by the driver through the steering-column, and in the trailer-truck this force is applied through the draft-bar from the automobile or automobile-truck to which this draft-bar is attached, the direction and course of which is controlled by a driver through and by the same steering mechanism operated by a steering-column, instead of a draft-bar.

Undoubtedly the substitution of a draft-bar that will approximate as nearly as possible the same constant, immediate and efficient control of the steering mechanism of a trailer-truck as a steering-wheel of an automobile operated by a skilful and intelligent driver, involves problems in mechanical engineering and mechanical skill, not presented by motor-car construction. However, regardless of that fact, the adaptation of the steering mechanism of an automobile to a trailer-truck, and the control of that steering mechanism by a draft-bar connecting with the steering mechanism and attached to a motor-truck, instead of by a steering-wheel in the hands of an operator, is at least analogous, if not the same art.

Even if this conclusion were not the only logical one to be drawn from the evidence in this record relating to the similarity between the steering mechanism of an automobile and the steering mechanism of a trailer-truck, wholly apart from the means of controlling that mechanism either by a steering-wheel or by a draft-bar, nevertheless such conclusion is fully supported by the evidence of Mr. Ferris that will be considered more at length later in this opinion, in reference to the application of the knowledge he had acquired by his prior automobile experience, to the design of defendant's draft-bar in December, 1916. For this reason we cannot concur in the claim of counsel for the appellant that the prior patent automobile art, in so far, at least, as it relates to steering mechanism, has no application to the present suit.

[2] It is contended, however, that the draft-bar, described in this patent and covered by claims 5 and 6, is new and novel in the art, in that it projects rearwardly and downwardly, so that its rear end will lie in substantially the same horizontal plane as the free ends of the steering-arms, to each of which free ends it is attached by separate steering connections having ball-and-socket joints.

The rearward extension of the draft-bar and its connection with the steering-arms to the rear of the axle, instead of in front of it, present no new or novel feature; therefore claim 5 is invalid. (Eccard and Smith, No. 1,117,944; Brown, No. 41,476; Hendrickson, No. 1,109,752; Mason, No. 681,237.) The novelty, if any, in the Hudson draw-bar, must therefore consist in its downward extension to the same horizontal plane as the free ends of the steering arms, as described in claim 6.

It is the claim of the appellant that the invention consists in this specific type of draw-bar combined with numerous other elements as stated in claims 5 and 6. The appellee admits that—

> There is an obvious advantage in so arranging the primary steering element that its directive force will be exerted on a horizontal line with the steering arm.

But it is claimed that this was accomplished by Dehn (German patent, 228,185), by bringing the steering-arm up to a level with the draft-bar; by Robin (British patent, 5,988), by means of a downwardly-projecting part, either a part of or operatively connected with the draft-bar or other primary steering element; in Eccard and Smith, 1,117,944, where the draft-bar is free to move up and down in the rectangular frame built upon a tie rod connecting the two steering arms, and therefore exerts its effective directing force upon the tie rod in the same horizontal plane as the free ends of the steering arm; that the precise form shown by Hudson is found in Souther, No. 320,011, and Hendrickson, No. 1,109,752; and that the precise equivalent of the Hudson device is shown in Geiger, Eccard and Southerland, No. 903,185, and in Chrestenson, No. 1,068,737, where a downwardly-projecting member attached to the draft-bar in front of the axle brings the effective steering portion of the draft-bar into substantially the same horizontal plane as the free ends of the steering-arm.

By the downward projection of this draft-bar to the rear of the axle Hudson accomplishes the same thing that Dehn accomplished by bringing the steering-arms up to a level with the draft-bar, that Robin and Mason accomplished by means of a downward projection operatively connected with the draft-bar, that Hendrickson accomplished by a downwardly-extending bolt from the rearwardly-extending arm portion of the draft-bar, and that Geiger *et al.* and Chrestenson accomplished by a downwardly-projecting member attached to the draft-bar in front of the axle, so that the directive force of the primary steering element would be exerted in a horizontal plane with the free end of the steering-arm. Therefore it would appear that the Hudson method is no more than a clear equivalent of other well-known methods of construction disclosed by the prior art, to accomplish the same result.

The trial court, however, did not base its conclusion as to the invalidity of this patent solely upon the prior art, although it did hold that—

> The prior automobile art shows all drag links lying substantially in a horizontal plane and connections with the steering member made in that plane.

In that connection the trial court further held that—

> The desirability, if not necessity, for having the drag links horizontal, and the connection made in that plane, would be obvious, if not thus fully disclosed. The mechanical expedient of bending downward the rear end of the draw-bar sufficiently to make such a connection is a matter of skill, obvious to any automobile engineer, and does not amount to invention.

This finding of the trial court seems to be fully sustained by the evidence of the witness Ferris, who testified that, when he designed the defendant's trailer in 1916, he had not at that time seen the Troy Wagon Works trailer, and had not seen the patent to Hudson, or any representation of the Troy trailer made in accordance with that patent. He further testified in the same connection that the standard type of drag-link, which the defendant bought upon the open market, could not be used in any other position than in a horizontal plane with the free ends of the steering-arms. This not only sustains the trial court in its findings that—

> the prior automobile art shows all drag-links lying substantially in a horizontal plane and connections with the steering members made in that plane,

but it also tends to show the necessity of bringing the portion of the draft-bar to which these drag-links were attached, by bending, projection, or otherwise, down to the level of the plane of the end of the steering-arm, which fact was apparent to Ferris by reason of his former automobile experience.

[3, 4] It is insisted, however, by counsel for appellant that the testimony of Ferris should have been wholly disregarded by the court for the reason that Ferris is secretary and treasurer of the Ohio Trailer Company; that the statement made by Ferris is self-serving, and not corroborated by any other evidence, and directly contradicted by Ferris himself in his testimony given in a former suit between these parties in relation to the same trailer. The fact that Ferris occupies an official position with the appellee does not disqualify him as a witness, nor require the court to disbelieve his testimony. If he testified differently in another suit, that fact should have been brought into this record by cross-examination, or in some other way, for counsel had no right to rely upon the recollection of the court as to the evidence in another case, nor expect either the trial court or this court to examine the record in the other case in order to determine whether the witness had in his testimony in this case contradicted statements made by him as a witness in that case. Not only that, but the witness had a right to have his attention called to these facts and explain any discrepancy between his testimony in the other and in this case, if it were possible for him to do so. Counsel for plaintiff in error, however, did not cross-examine this witness, nor does this record show that the witness ever testified in any other case. Therefore these objections to his testimony must be wholly disregarded.

It does appear, however, that the witness is corroborated by the blueprint dated December 20, 1916, and the photographs, 4 and 5, which photographs show a portion of defendant's old factory vacated by defendant in 1917. This evidence of the drawing by Ferris of defendant's draft-bar in 1916 is not offered to show anticipation in the prior art, of the Hudson patent, but rather for the purpose of showing that what is now claimed to be invention amounts to no more than the ordinary exercise of mechanical skill in meeting the obvious necessity.

[5] It is insisted, however, on the part of counsel for appellant that Ferris testified that this was obvious to him, because of his previous automobile experience as an automobile engineer; that by "experience" the witness clearly meant "experimentation," to ascertain how to make a draw bar that could work with such links; and that therefore the downward extension of this draw-bar involves invention and is patentable. In reply to this it is sufficient to say that experience in a particular trade, profession, or calling does not necessarily mean experimentation with the particular thing under consideration. On the contrary, the language used by the witness is not subject to any construction other

[1] 1. In a vehicle of the character described, a main frame, an axle located below said frame carrying wheels swivelly connected with said axle, springs for supporting said frame from said axle and wheels, a draft bar pivotally connected with said frame, and steering connections from said draft bar to said wheels, said steering connections having ball and socket joints.

2. In a vehicle of the character described, a main frame, an axle and carrying wheels, springs for supporting said frame from said axle and wheels, a draft bar pivotally connected to said frame, steering rods connecting the inner end of said draft bar with said wheels, said connections consisting of ball and socket joints.

3. In a vehicle of the character described, a main frame, an axle, and carrying wheels, springs for supporting said frame from said axle and wheels, a draft bar pivotally connected to said frame, an arm extending from each of said wheels, and a rod connecting each of said arms with the inner end of said draft bar, the connections between each of said rods with said bar and arm consisting of a ball and socket joint.

4. In a vehicle of the character described, a main frame, an axle and carrying wheels, springs for supporting said frame from said axle and wheels, a draft bar pivotally connected with said frame, arms extending from each of said wheels, steering rods, socket members on the respective ends of each of said rods, balls on said arms and draft bar extending into said socket members, and means for adjusting said socket members.

5. In a vehicle of the character described, a main frame, an axle located below said frame, carrying wheels swivelly connected with said axle, springs for supporting said frame from said axle and wheels, a draft bar pivotally connected with said frame having a rearwardly extending portion, and steering rods connecting the rear end of said draft bar with said wheels, said connection comprising ball and socket joints.

6. In a vehicle of the character described, a main frame, an axle located below said frame, carrying wheels swivelly connected with said axle, arms connected to said carrying wheels, springs for supporting said frame from said axle and wheels, a draft bar pivotally connected with said frame, said draft bar projecting rearwardly and downwardly so that its rear end will lie in substantially the same horizontal plane as the free ends of said arms, and steering connections from the rear end of said draft bar to the free ends of said arms, said steering connections having ball and socket joints.

than that from his experience in that line of work the thing was obvious to him without any experimentation whatever. The term "obvious," as here used, does not mean that the thing must be obvious to men wholly unlearned and wholly inexperienced in the particular art to which the claimed invention pertains. What might be an obvious conclusion to a lawyer might not be obvious to a layman, and what "passeth the understanding of a lawyer" might be perfectly obvious to a mechanical engineer. Therefore, if this claimed invention was obvious to a mechanical engineer, or a skilled workman familiar with automobile and trailer-truck construction, it is clearly within the meaning of the settled rule that the obvious is not invention.

[6] The Eccard and Smith patent, No. 1,117,816, relates to improvements in reversible trucks or dump-wagons of the type which employ a pivoted draft-bar at each end thereof, which draft-bar is connected to the wheels for steering purposes, and also may be locked to the wagon bed or frame in a central position when the truck is being drawn from the opposite end. Claims 6, 7, and 8 are relied upon by the appellant. These claims are similar in their nature; claim 8 being, perhaps, a little more comprehensive than either of the other two. This claim reads as follows:

> 8. In a vehicle of the character described, a main frame, a draft bar pivotally connected to said main frame at its rear end, an automatic latch for locking said draft bar to said frame near its front end in a central position with respect to said main frame, said draft bar having connections with the steering wheels of said vehicle, and means for holding said latch in inoperative position to permit said draft bar to steer said wheels.

There are other claims describing this automatic locking device in detail, but it is not seriously contended that the automatic locking device used by the defendant is an infringement of appellant's automatic locking device, separate and apart from the combination in which it is found. On the contrary, it is the specific claim of the appellant that the invention lies in the combination and not in the lock *per se*, and that therefore the introduction of any automatic locking device into this combination described in the specifications and claims, coördinating in like manner as appellant's automatic lock with the other elements of the combination, would constitute infringement.

In reply to this it is insisted upon the part of the appellee that there is nothing new or novel in appellant's combination, for the reason that automatic locks for locking the draft-bar of vehicles of the character named in the patent in suit and other wheeled vehicles of a similar nature are old in the prior patent art. In support of this contention a large number of patents relied upon by appellee are cited. The steering mechanism of a trailer-truck or dump-wagon, that is associated in this combination with appellant's automatic locking device, is admittedly old in the art. Nor is there anything new or novel in the idea of locking the rear draft-bar to the wagon bed or frame in a central position when the truck or wagon is being drawn from the opposite end. On the contrary, this is absolutely essential to its successful operation. (Nelson, 708,709; Geiger, Eccard and Southerland, 903,185; Christenson, 1,088,787.)

However, in these patents no automatic lock is used; but the locking is accomplished, as stated in the application for this patent, by the insertion of a pin or other means through suitable apertures through the draft-bar and some parts connected with the vehicle body.

Souther, 207,468, relates to a reversible trailer-truck for street-cars. It appears from the evidence of the expert witness Browne, and also from an examination of this patent itself, that it contains fundamentally the same character of locking mechanism used by the defendant, which consists of two latches, which coöperate directly with a hump or boss on the draw-bar. Souther has two pivoted latches, which, when released by pressure of the foot of the driver, permits the drawbar to swing free, but when it comes back to a central position it is again automatically locked.

The expert witness called on behalf of the appellant testifies in reference to this patent that the action is automatic in closing, but there are no means for holding the lock out of operation except the foot of the motorman; that, because this feature is lacking, Souther's automatic lock would not be suited for use in a trailer. It is clear, however, that the idea of the automatic lock as applied to the steering mechanism of a trailer-truck is fully disclosed by Souther, and that the mechanical means for holding this lock out of operation was not used, because an operator was always present on these trailers, and for that reason no such device was necessary. Therefore the most that Eccard and Smith could claim over Souther is this means for holding the automatic locking device out of operation when it is desired that the draft bar should swing free, but this is also old in the art.

In reference to this, the expert witness Browne testifies:

> But it was old in the art for quite analogous purposes to make provision for doing just that thing; that is, for locking the latch or locking bolt in its unlocked position, something of the sort seen in doors, such as the door in my own office building, which has a spring lock to-day; but there is a little catch on the lock, which I move by hand, so as to hold that spring lock out of action.

In the Eccard and Smith patent it is also necessary for the operator to use his hands in placing the means provided for fastening their automatic lock in such position that it will not function.

Knupfer, 410,692, is for a seed-drilling machine, having an automatic locking device, which consists of a bolt actuated by a spring, which corresponds with a notch carried by the draw-bar, so that when the spring-bolt is free to move, and the notch is brought into register with the bolt, the tongue or draw-bar will be automatically locked in central position. It is also provided with means for holding this automatic locking device out of operation. While this machine is being used in the field in the drilling of grain, it is desirable that the tongue or draft-bar should swing freely, and therefore the lock is not released or used in the actual operation of the machine, except in turning a corner, or in moving

the machine on the road, or from one field to another. It then becomes necessary that the tongue should be so locked to the body as to provide a steering means other than the mere draft. To that end the automatic locking device is released, and functions as in Eccard and Smith, to lock the tongue or draft-bar in rigid relation to the frame or body.

Hurd, No. 283,712, relates to the running-gear for wagons which may be steered either by the link connections between tongue or draft-bar and swivelly-mounted wheels, or by the old-fashioned fifth-wheel construction. The steering mechanism includes an automatic lock that operates to fasten the two plates of the fifth-wheel together while the wagon is being steered by the tongue or draft-bar, imparting directive motion to the swivel-wheels through the link connection. When the operator desires to make a more abrupt turn than possible in this way, he can release this automatic lock by a foot-treadle, thereby permitting the fifth-wheel construction to operate. After the turn, and when the tongue or draft bar swings into central position, and the driver removes his foot from the treadle-lever, the automatic lock again functions to unite the upper and lower part of the fifth-wheel. There is also provision in this patent for automatically locking the tongue as it passes over the beveled surfaces of the front locking-bar.

Heisey, 67,430; Eustis, 837,242; Ruffner, 154,915; Sattley, 629,875, and Goodhue, 1,068,334, relate to agricultural implements. Each of them contains an automatic locking device. No means are provided in either of these patents for holding the automatic locking mechanism out of operation, for the reason, as explained by appellant's expert witness Wagner, that

> the time during which the locking mechanism is thrown out of commission is relatively short,

and perhaps for the further reason that an operator is always present who can, by the means provided, release the automatic locking device and hold it out of operative engagement with the frame or body of the vehicle for the short time required to accomplish the purpose of its release.

It is insisted, however, on the part of the appellant, that all these patents are in a remote art, and have no application or analogy to trailer-trucks. The Eccard and Smith patent, however, is not confined to trailer-trucks, but to reversible trucks or dump-wagons of the type which employ a pivoted draft-bar at each end thereof, which draft-bar is connected to the wheels for steering purposes and also may be locked to the wagon bed or frame in central position when the truck is being drawn from the opposite end. Later in the description in the patent the following statement appears:

> In reversible vehicles of this character, either motor trailer or horse-drawn trucks or dump wagons.

This language would seem to be sufficiently broad to include all forms of vehicle construction where the tongue or draft-bar is required to swing free for one purpose of its operation, and to be locked or fastened to the frame or body of the vehicle for the accomplishment of another purpose.

In any event, it is clear that Souther and Hurd are within the identical art, although Hurd is not of the reversible type, or of a type that requires the rear wheels to be rigidly locked to the frame or body of the vehicle when drawn from the opposite end. Nevertheless the Hurd invention relates to substantially the same problem in the same art as Eccard and Smith. It is also apparent that agricultural implements, including a frame mounted upon wheels, with tongue or draft-bar connected with and used as part of its steering mechanism, if not in the same art, are at least in such a closely-allied art that prior patents in relation thereto must necessarily be held as anticipatory of similar inventions in relation to reversible vehicles described in Eccard and Smith, whether motor-drawn or horse-drawn trucks or dump-wagons.

[7] It is further insisted, however, that, even though these patents were in the same or an analogous art, they have no application, for the reason that the automatic locks shown in the earlier patents are not found in the same combination as in Eccard and Smith, and that the Eccard and Smith patent is for a combination, and not for an automatic lock *per se*. The mere adaptation of an old element to a specific use is not invention, unless the combination of such old elements produce "a new result, or an old result in a new and materially better way." (*Frey et al.* v. *Marvel Auto Supply Co.*, (C. C. A. 6,) 236 Fed., 916; 150 C. C. A., 178.) It is clear from the evidence in this case that the automatic locking device of Eccard and Smith functions in identically the same way as the automatic locking devices in the prior patent art, and that the other elements of this combination produce no new or different result in combination with this automatic locking device than produced by these elements when locked by any other means. It necessarily follows that the combination of an automatic lock with the old steering elements of vehicles of the character described in this patent does not constitute invention. (*Heald* v. *Rice*, 104 U. S., 737–755; 26 L. Ed., 910; *Huebner-Toledo Breweries Co.* v. *Mathews*, 253 *Fed.*, 435–447; 165 C. C. A., 177; *Turner* v. *Lauter Piano Co.*, 248 Fed., 930; 161 C. C. A., 48; *Robinson* v. *Fabric Co.*, (D. C.,) 248 Fed., 526; *Overweight Counter-balance Elevator Co.* v. *Machine Co.*, 102 Fed., 957; 43 C. C. A., 80; *Self Scaling Can Co.* v. *Hocker*, (C. C.,) 136 Fed., 418; *Warren Webster & Co.* v. *Dunham*, 181 Fed., 836; 104 C. C. A., 346.)

[8] It is further insisted that the patent prior art has no application, for the reason that no means are provided for holding the automatic lock shown therein out of operation other than by the hand or foot of the operator.

[9–11] Knupfer, however, does show such means; but aside from that, it is not only common knowledge, but shown in this record by the uncontradicted evidence of the expert witness Browne, that—

> It was old in the art for quite analogous purposes for making provisions for doing just that thing, that is for locking the latch or locking the bolt in its unlocked position. Warns, 991,199.

Therefore, even if Knupfer were to be entirely disregarded, the combination of these old elements including adequate means for holding the automatic locking device out of operative engagement, does not amount to invention, even though that means may be in and of itself new and novel, and entitled to separate and distinct patent protection or protection in combination with these old elements as to that peculiar or novel means employed for that purpose but certainly not as a monopoly covering such combination with any and all forms of automatic locks.

For the reasons above stated, the decree of the district court as to both patents is affirmed.

ADJUDICATED PATENTS.

(U. S. C. C. A. N. Y.) The Wilson patent, No. 43,090, design for doll, *Held* infringed. *Wilson v. Heber Bros.*, 275 Fed. Rep., 346.

(U. S. D. C. N. Y.) The Cohn design patent, No. 54,714, for design for frame for shades for electric lights, *Held* valid and infringed. *Robert Findlay Mfg. Co. v. Hygrade Lighting Fixture Corporation*, 275 Fed. Rep., 362.

(U. S. C. C. A. Wis.) The Secor patent, No. 812,871, for special regulator for explosive-engines, *Held* not infringed and claim 17 invalid. *Advance Rumley Co. v. John Lauson Mfg. Co.*, 275 Fed. Rep., 249.

[Vol. 283. No. 3.]

Patents Nos. 1,400,506 to 1,401,118.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

Vol. 283—No. 3. TUESDAY, DECEMBER 20, 1921. Price—$5 per year.
[PUBLISHED DECEMBER 20, 1921.]

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Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

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Issue of December 20, 1921.

Patents	613—No.	1,400,506 to No.	1,401,118, inclusive.
Designs	61—No.	60,020 to No.	60,080, inclusive.
Trade-Marks	181—No.	149,639 to No.	149,819, inclusive.
Labels	49—No.	23,787 to No.	23,835, inclusive.
Prints	23—No.	5,878 to No.	5,900, inclusive.
Reissues	6—No.	15,247 to No.	15,252, inclusive.
Total	953		

Interference Notices.

Department of the Interior,
United States Patent Office,
Washington, D. C., December 7, 1921.

Perfection Mfg. Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Haskins Bros. & Company, corner of Prospect and Grand streets, Sioux City, Iowa, for registration of a trade-mark and trade-mark registered August 22, 1916, No. 112,216, to Perfection Mfg. Co., 434 Lafayette Building, Philadelphia, Pa., and a notice of such declaration sent by registered mail to Perfection Mfg. Co. at the new address having been returned by the post-office undeliverable, notice is hereby given that unless said Perfection Mfg. Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Department of the Interior,
United States Patent Office,
Washington, D. C., December 10, 1921.

The Parker Supply Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Massasoit Manufacturing Company, 186 Pocasset Street, Fall River, Mass., for registration of a trade-mark and trade-mark registered August 8, 1911, No. 83,004, to the Parker Supply Co., 250 Devonshire Street, Boston, Mass., and because of prima facie evidence in the record to the effect that the Parker Supply Co. is no longer in existence notice is hereby given that unless said the Parker Supply Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Adverse Decisions in Interference.

Patent No. 1,298,441.

On November 18, 1921, a decision was rendered that Sidney A. Beyland was not the first inventor of the subject-matter covered by claims 6, 7, and 18 of his Patent No. 1,298,441, subject, "Telephone system," and no appeal having been taken within the time allowed such decision has become final.

Patent No. 1,363,484.

On November 15, 1921, a decision was rendered that Arthur Roemer was not the first inventor of the subject-matter covered by claims 1, 2, 3, 4, and 5 of his Patent No. 1,363,484, subject, "Spring-motor construction," and no appeal having been taken within the time allowed such decision has become final.

Patent No. 1,369,854.

On September 10, 1921, a decision was rendered that Arthur C. Thompson and Winfield S. Robinett were not the first inventors of the subject-matter covered by claim 4 of their Patent No. 1,369,854, subject, "Thermostat-valve," and no appeal having been taken within the time allowed such decision has become final.

Briefs in Appealed Cases.

All briefs filed in this Office should have conspicuously printed thereon a statement designating the particular tribunal of the Patent Office to which the brief is addressed.

NOTICE—DESIGN PATENTS.

When an application for a design patent is found allowable, the patent will be granted for the term asked in the application papers unless specific request has been made for notice prior to allowance so that the term may be extended. Hereafter the Office will delay allowance and notify the applicant ONLY in cases where a specific request is filed.

Condition of Applications Under Examination at Close of Business December 10, 1921.

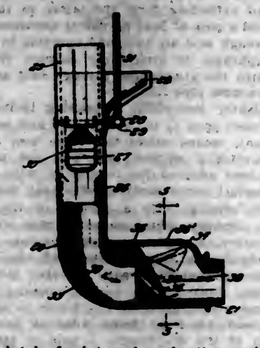
Room No.	Divisions, Examiners, and subjects of inventions. (Oldest new case, Nov. 15; oldest amended, Feb. 12.)	Oldest new application and oldest application of which action by Primary Examiner is next in order. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Cleaner Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Seeding; Unloaders.	July 14	July 8	707
130	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Preparation; Preserving; Presses; Tents, Canopies, Umbrellas, and Cases; Threshing Tools, Flails and Floors.	Feb. 3	Apr. 8	1,726
173	3. RICH, WM. J., Electric Heating and Welding; Electric Motive Power; Electric Railways; Electric Signaling; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Molding; Riveting; Metal-Working Line Implements; Railway Mail Delivery; Traversing Horse.	Apr. 21	Feb. 21	941
284	4. MERRITT, A. D., Conveyors; Conveyor, Fluid-Current; Conveyor, Power-Driven; Elevating and Conveying; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Horse.	Jan. 28	July 6	1,738
147	5. MACNAB, J. F., Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Straps.	Feb. 18	Mar. 24	941
218	6. LEWERS, A. M., Blasting and Dynamite; Chemistry; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Mineral Oils; Oils, Fats, and Gums; Plastic Compositions; Preservation.	May 9	July 13	1,009
213	7. JARBOE, C. O., Cans and Tops; Closing; Fastening; Hardware; Plastic Sheet Inserting Devices; Stoppers.	Apr. 15 Aug. 31	July 15 Nov. 15	2,044 694
133	8. CLIFT, J. W., Beds; Chairs and Seats; Tables; Supports.	Jan. 10	Sept. 15	1,045
221	9. TRYON, P. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	May 16	Oct. 4	1,116
205	10. MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles, Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles; Motor Vehicles, Steering; Sleds; Snow and Land Vehicles; Stands; Trucks and Supports.	Aug. 11	July 27	466
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Buckles; Eyelet and Rivet Setting; Harness; Leather Manufactures; Metal Working and Shaping; Whips and Whip Apparatus.	May 20 Jan. 5	Sept. 9 Oct. 14	1,095 1,618
222	12. PIERCE, F. T., Molding Machines.			
220	13. NIXON, G., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Handled, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Working; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Feb. 25	Sept. 16	951
223	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structures; Wire-Working.	Nov. 13	Mar. 30	1,795
208	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Dec. 15 Apr. 5	Mar. 3 July 11	1,788 1,109
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony.			
207	17. RAFTER, G. S., Coating, Label Printing and Paper Bleaching; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Jan. 15	Feb. 16	1,906
220	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Jan. 17	May 4	1,027
236	19. GLASCOCK, R. B., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidistats.	June 2	July 14	1,613
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Apr. 5	July 19	711
212	21. THURBER, W. L., Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	June 26	Sept. 24	551
249	22. COLWELL, J. H., Ammunition and Explosive Devices; Ammunition and Explosive Charge Making.	Jan. 21	July 21	827
217	23. GROESBECK, W. D., Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Feb. 24 Sept. 12	July 7 Sept. 10	1,126 304
144	24. DARBY, J. J., Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines.	May 4	June 27	832
315	25. LIGHTFOOT, J. H., Agitating; Brushmaking; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	May 5	July 22	1,614
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime Mover Dynamo Plants.	Feb. 12	May 20	1,642
314	27. ANDERSON, L. S., Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus.	Apr. 6	Sept. 19	785
226	28. BENSON, A. R., Internal-Combustion Engines.	May 28	Sept. 20	1,400
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wirestergart-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.			
153	30. SULLIVAN, M. R., Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	Jan. 5	Feb. 21	2,026
173	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Gums; Sugar and Salt.	Feb. 12 June 10	Sept. 20 July 8	991 724
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange.			
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Aug. 29	Oct. 11	315
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Snow Service; Track-Sanders; Vehicle-Fenders.	Sept. 20	Sept. 8	731
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	July 15	June 24	1,545
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Mar. 17 June 13	Mar. 10 June 17	1,022 1,209
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers.			
278	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Nov. 10	M[illegible]	2,076
220	39. COWLES, A. W., Fluid Pressure Regulators; Joint Packings; Multiple Valves; Pipe-to-Pipe Joints; Pipe Joints or Couplings; Red Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Jan. 10	Apr. 7	2,461
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Chairs, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	June 16	July 15	883
125	41. BROWN, J. L., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels.	Jan. 17	Jan. 18	1,614
114	42. CUTTING, H. O., Electrical Conduits and Hangers; Electric Signaling; Electric Lamps.	Jan. 31	Feb. 26	1,731
202	43. HOPKINS, F. L., Baths and Closets; Dispensing; Liquid Separation or Purification; Pumping and Closing Portable Fire Extinguishers; Sewerage; Sewerage Traps and Seepage; Tanks and Reservoirs.	Mar. 5	Oct. 6	841
230	44. SHAFFER, C. H., Air-Guns, Compressed-Air Guns; Railway Draft Appliances; Refrigeration Ships.	May 21 Apr. 22	Aug. 1 June 20	1,196 1,203
370	45. GILES, A. H., Journal-Bearings; Pulleys, and Shafting; Lubrication; Motors; Spring Devices.	Mar. 18	July 11	1,215
232	46. WOLCOTT, C. L., Curtains, Screens, and Screens; Electrical Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Distributing; Power Pipe and Hydrant; Weather Buildings; Sanitation.			
264	47. BARKER, E., Brakes; Clutches and Power Stop Control; Elevators; Fluid Pressure Brake and Analogous Systems.	Jan. 4	Feb. 13	1,064
113	48. ROBERTS, O. E., Electricity, Condensers; Electricity, General Applications.	June 23	Sept. 21	4,281
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, JR.	May 1	May 3	2,254
	Trade-Marks.	Nov. 28	Nov. 28	393
	Designs.			
	Labels and Prints.			

Total number of applications awaiting action, excluding Trade-Mark division, 89,195; Trade-Mark division, 6,563.

PATENTS

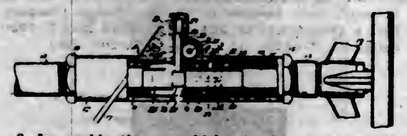
GRANTED DECEMBER 20, 1921.

1,400,506. AIR-REGULATING DEVICE FOR INTERNAL-COMBUSTION ENGINES. RICHARD ABRAM, Riverside, Ill. Filed July 2, 1919. Serial No. 308,643. 3 Claims. (Cl. 277—65.)



3. An air intake for internal combustion engines having in combinative association, a conduit, for connection at its discharge end to the inspiration port of an engine; a gravity operable valve in said conduit adapted to be opened by the incoming air; and a port through said valve, the axis of which is at an angle to the normal path of the air and which approaches parallelism with said path as it is moved toward open position.

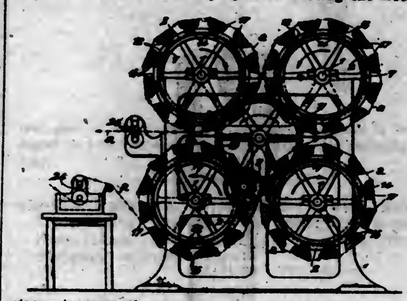
1,400,507. LOCK FOR MOTOR-DRIVEN VEHICLES. CHARLES N. ADDIS, Downers Grove, Ill., assignor of one-half to John Skworchinsky, Chicago, Ill. Filed Nov. 26, 1919. Serial No. 340,783. 5 Claims. (Cl. 70—90.)



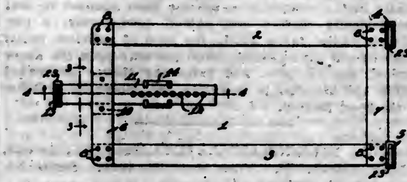
2. In combination, a vehicle steering shaft formed of two independent axial sections, a shiftable element operatively connecting said shaft sections, means for shifting said element to disconnect said shaft sections, and means for locking said element in inoperative position, said element having an opening adapted for engagement by said locking means when said element is in operative position for locking said shaft against rotation.

1,400,508. MACHINE FOR DRYING STRIPS. ERNST AMMANN-HABERSTICH, Basel, Switzerland. Filed Feb. 15, 1918. Serial No. 217,360. 5 Claims. (Cl. 34—48.)

5. A machine or drying strips, comprising a reel, rollers arranged nearly tangentially to the reel, endless metallic straps, one half of each such strap acting as a support for the strips to be wound on the reel, guides for the strap-halves acting as supports, rollers provided on the metallic straps and coöperating with said guides in order to reduce the friction of the metallic straps in the said guides and means for rotating the reel and imparting a movement to said rollers arranged nearly tangentially on the reel, for the purpose of causing the metallic straps to move the strips in a transverse direction while they are wound on the reel.

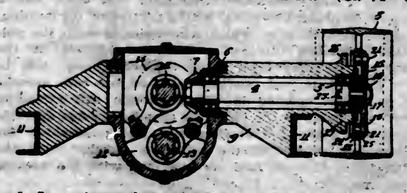


1,400,509. TRUNK-DOLLY. MARCUS O. ANTHONY, New York, N. Y., and GEORGE LEDERMAN, Cleveland, Ohio; said Lederman assignor to said Anthony. Filed June 4, 1920. Serial No. 386,500. 3 Claims. (Cl. 280—35.)



1. A trunk dolly adapted to be secured to the bottom of a trunk and comprising a rectangular frame having a fixed abutment projecting upwardly from one end thereof, a wheel pivotally supporting each corner of said frame, a movable abutment mounted at the opposite end of said frame and adapted to coöperate with said fixed abutment to clamp said frame to said trunk, and means for retaining said movable abutment in adjusted position.

1,400,510. POWER-PULLEY MOUNTING FOR TRANSMISSION MECHANISM. AXEL HJ. ASPROOTH, Rockford, Ill., assignor to Cotta Transmission Company, Rockford, Ill., a Corporation of Illinois. Filed Aug. 4, 1919. Serial No. 315,099. 6 Claims. (Cl. 74—7.)



1. In a transmission mechanism, the combination of a frame, a power pulley shaft journaled therein, a power pulley detachably mounted on the end of said shaft, and

Condition of Applications Under Examination at Close of Business December 10, 1921.

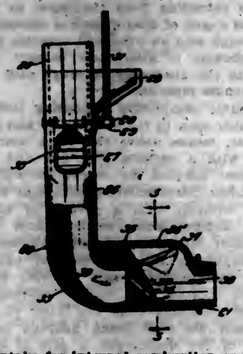
Room No.	Divisions, Examiners, and subjects of inventions. (Oldest new case, Nov. 15; oldest amended, Feb. 12.)	Oldest new application and oldest case in which an amendment following office action.		Number of applications awaiting action.
		New.	Amended.	
214	1. LOEFFLER, F. A., Closure Operators; Presses; Gates; Harrows and Diggers; Plows; Planting; Seed-sowing Machines.	July 14	July 8	797
120	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Fermentation; Preserving; Prepared Foods; Tents, Canopies, Umbrellas, and Canes; Receptacle Fixed, Flexible and Portable.	Feb. 8	Apr. 8	1,726
175	3. RICH, WM. J., Electric Heating and Illuminating Systems; Electric Heating; Metal-Working Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal-Working.	Apr. 21	Feb. 21	961
284	4. MERRITT, A. D., Conveyors; Conveyors, Fluid-Current; Excavating; Hoisting—Hand and Hoist-like Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Stone Working.	Jan. 26	July 6	1,728
147	5. MACIAS, J. F., Boots and Shoes; Boots, Shoes and Leggins; Harvesters; Jewelry; Shoeblacking; Music; Printed Matter, Typing Cards or Signs, &c.	Feb. 16	Mar. 24	962
218	6. LEWERS, A. M., Blasting and Dyeing; Chemicals; Explosive Projectiles and Match Compositions; Furnaces; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	May 9	July 13	1,089
212	7. JARBOE, C. G., Gearing and Toys; Gearing; Horology; Vehicles.	Apr. 15	July 15	2,044
128	8. CLIFT, J. W., Bags; Cloths and Bags; Flexible Sheet Securing Devices; Furniture; Kitchen and Table Articles; Table Furniture; Receptacles.	Aug. 31	Nov. 13	694
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motor, Fluid-Current Engine Details.	Jan. 26	Sept. 26	1,045
295	10. MITCHELL, T. E., Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Running Gear; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	May 16	Oct. 4	1,118
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Buckles, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Appendages.	Aug. 11	July 27	466
222	12. PIERCE, F. F., Machine Elements.	May 23	Sept. 9	1,095
220	13. NIXON, G. A., Bolt, Nut, Pin, Rivet, and Screw Making; Chain, Staple, and Wearables Making; Driven, Headed, and Screw-Threaded Fastening; Gear Cutting, Milling, and Planing; Metal Working; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Jan. 5	Oct. 14	1,615
260	14. BRUMBAUGH, M. L., Cement and Stone Cutting and Punching Sheets and Bars; Factory; Metal-Rending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Screen and Wire Working.	Feb. 25	Sept. 16	951
200	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Nov. 15	Mar. 28	1,705
112	16. BACKUS, C. D., Railroad Running; Telegraphy; Telephony.	Dec. 15	Mar. 3	1,728
207	17. RAFTER, G. S., Casting, Label Printing and Paper Blanking; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Apr. 5	July 11	1,169
288	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Regulating Devices; Steam and Vacuum Pumps.	Jan. 15	Feb. 18	1,906
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Jan. 17	May 4	1,027
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Clasps-Fasteners; Cutlery; Dentistry; Locks and Latches; Sales; Undertaking.	June 2	July 14	1,613
213	21. THURBER, W. L., Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Carding; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Apr. 5	July 19	711
249	22. COLWELL, J. H., Ammunition; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making.	June 28	Sept. 24	551
217	23. GROESBECK, W. D., Assorting; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Jan. 21	July 21	827
144	24. DARBY, J. J., Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines.	Feb. 24	July 7	1,126
215	25. LIGHTFOOT, J. H., Agricultural Bacteriology; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Sept. 12	Sept. 10	294
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime Mover Dynamic Plants.	May 4	June 27	892
216	27. ANDERSON, L. E., Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus.	May 5	July 22	1,614
235	28. BENSON, A. H., Internal-Combustion Engines.	Feb. 12	May 20	1,642
147	29. MORRIS, S. N., Boring and Drilling; Button Making; Chucks; Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Apr. 6	Sept. 19	785
162	30. SULLIVAN, M. R., Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Typo-Writing Machines.	May 28	Sept. 20	1,490
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Jan. 5	Feb. 21	2,026
276	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange.	Feb. 12	Sept. 20	961
76	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Movable Building Structures; Roads and Pavements; Rock.	June 16	July 8	734
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	Aug. 29	Oct. 11	315
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	Sept. 20	Sept. 9	731
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Perpetual Motion.	July 15	June 24	1,545
167	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers.	Mar. 17	Mar. 19	1,682
278	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing; Trapping; and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stockraising; Weaving; Webs.	June 13	June 17	1,299
230	39. COWLES, A. W., Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Nov. 10	M[illegible]	2,076
273	40. OBERLIN, J. J., Bagging; Bottles and Jars; Chain-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Jan. 10	Apr. 7	2,461
126	41. BROWN, J. L., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels.	June 16	July 15	880
114	42. CUTTING, H. G., Electrical Conductors and Heaters; Electric Switches; Electric Lamps.	Jan. 17	Jan. 18	1,614
262	43. HOPKINS, J. M., Baths and Closets; Dispensing; Dispensing Receptacles; Electricity, Medical and Surgical; Fire Extinguishers; Governors; Surgery; Liquid Separation or Purification.	Jan. 31	Feb. 28	1,731
298	44. SHAFFER, C. H., Air-Gases, Vaporizable, and Vapors; Waste and Sewage; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Track Appliances; Refrigeration Shops.	Mar. 5	Oct. 6	541
279	45. GILES, A. H., Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices.	May 21	Aug. 1	1,186
288	46. WOLCOTT, C. L., Curtains, Blinds and Screens; Educational Appliances; Fire-Escapes; Ladders; Plant Sprinkling, Spraying, and Distributing; Paper Files and Binders; Wooden Buildings; Sanitation.	Apr. 22	June 20	1,903
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid Pressure Brakes and Analogous Systems.	Mar. 18	July 11	1,215
113	48. ROWLAND, C. B., Electricity, Conductors; Electricity, General Applications.	Jan. 4	Feb. 13	1,964
168	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, JR.			
	Trade-Marks.	June 28	Sept. 28	6,281
	Designs.	May 1	May 3	2,254
	Labels and Prints.	Nov. 22	Nov. 22	328

Total number of applications awaiting action, excluding Trade-Mark Division, 30,105; Trade-Mark Division, 6,863.

PATENTS

GRANTED DECEMBER 20, 1921.

1,400,506. AIR-REGULATING DEVICE FOR INTERNAL-COMBUSTION ENGINES. RICHARD ABRAM, Riverside, Ill. Filed July 3, 1919. Serial No. 308,643. 3 Claims. (Cl. 277—66.)



3. An air intake for internal combustion engines having in combinative association, a conduit, for connection at its discharge end to the inspiration port of an engine; a gravity operable valve in said conduit adapted to be opened by the incoming air; and a port through said valve, the axis of which is at an angle to the normal path of the air and which approaches parallelism with said path as it is moved toward open position.

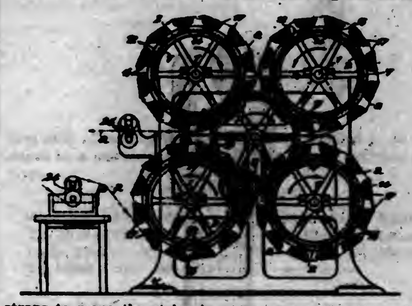
1,400,507. LOCK FOR MOTOR-DRIVEN VEHICLES. CHARLES N. ADDIS, Downers Grove, Ill., assignor of one-half to John Skworchinsky, Chicago, Ill. Filed Nov. 26, 1919. Serial No. 340,783. 5 Claims. (Cl. 70—90.)



2. In combination, a vehicle steering shaft formed of two independent axial sections, a shiftable element operatively connecting said shaft sections, means for shifting said element to disconnect said shaft sections, and means for locking said element in inoperative position, said element having an opening adapted for engagement by said locking means when said element is in operative position for locking said shaft against rotation.

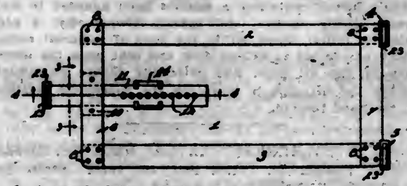
1,400,508. MACHINE FOR DRYING STRIPS. ERNST AMMANN-HABERSTICH, Basel, Switzerland. Filed Feb. 15, 1918. Serial No. 217,300½. 5 Claims. (Cl. 34—48.)

5. A machine or drying strips, comprising a reel, rollers arranged nearly tangentially to the reel, endless metallic straps, one half of each such strap acting as a support for the strips to be wound on the reel, guides for the strap-halves acting as supports, rollers provided on the metallic straps and coöperating with said guides in order to reduce the friction of the metallic straps in the said guides and means for rotating the reel and imparting a movement to said rollers arranged nearly tangentially on the reel, for the purpose of causing the metallic



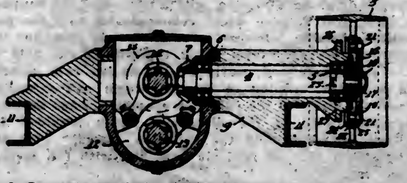
straps to move the strips in a transverse direction while they are wound on the reel.

1,400,509. TRUNK-DOLLY. MARCUS O. ANTHONY, New York, N. Y., and GEORGE LEDERMAN, Cleveland, Ohio; said Lederman assignor to said Anthony. Filed June 4, 1920. Serial No. 386,500. 3 Claims. (Cl. 280—35.)



1. A trunk dolly adapted to be secured to the bottom of a trunk and comprising a rectangular frame having a fixed abutment projecting upwardly from one end thereof, a wheel pivotally supporting each corner of said frame, a movable abutment mounted at the opposite end of said frame and adapted to coöperate with said fixed abutment to clamp said frame to said trunk, and means for retaining said movable abutment in adjusted position.

1,400,510. POWER-PULLEY MOUNTING FOR TRANSMISSION MECHANISM. AXEL HJ. ASPROOTH, Rockford, Ill., assignor to Cotta Transmission Company, Rockford, Ill., a Corporation of Illinois. Filed Aug. 4, 1919. Serial No. 315,099. 6 Claims. (Cl. 74—7.)



1. In a transmission mechanism, the combination of a frame, a power pulley shaft journaled therein, a power pulley detachably mounted on the end of said shaft, and

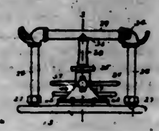
means for fixedly connecting the power pulley to and supporting it from the frame structure in such position that the pulley circumscribes said end of the power pulley shaft and constitutes a stationary guard therefor.

1,400,511. DEFLECTOR FOR FILL-PIPES. LINNAEUS E. BARNS, Fort Wayne, Ind., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Jan. 3, 1920. Serial No. 349,330. 1 Claim. (Cl. 137—21.)



In combination with a fill pipe adapted to discharge upwardly into a container, a tubular hood adapted to seat concentrically thereon and extend downwardly, a plurality of radial vanes within the hood of sufficient radial width at the top to extend over and seat upon the upper curb of the fill pipe, and extending thence downward within the fill pipe to maintain the concentric relation of the hood thereto.

1,400,512. MILKING APPARATUS. MERRITT C. BARDEN, West Pawlet, Vt. Filed Feb. 19, 1921. Serial No. 446,269. 7 Claims. (Cl. 31—90.)



1. A pulsator comprising a housing which includes a pulsation chamber having means adapted for connection with a conduit communicating with a vacuum pipe line, and means adapted for connection with an air and vacuum conduit communicating with teat cups, and a flexible diaphragm forming, with a portion of the housing, a diaphragm chamber which communicates with the pulsation chamber through a restricted by-pass in the housing, the diaphragm being exposed at one side to the atmosphere and provided with an air tube secured in a central opening in the diaphragm and extending from the latter to the pulsation chamber, means operable by movements of the diaphragm being provided for alternately connecting the pulsation chamber with the atmosphere through said air tube, and with the vacuum pipe line.

2. A pulsator substantially as specified by Claim 1, the said air tube being adapted to conform to movements of the diaphragm.

3. A pulsator substantially as specified by claim 1, said air tube being composed of a rigid section attached to the diaphragm and a flexible section interposed between the rigid section and the pulsation chamber and adapted to conform to movements of the diaphragm.

4. A pulsator comprising a housing which includes a pulsation chamber having means adapted for connection with a conduit communicating with a vacuum pipe line, and means adapted for connection with an air and vacuum conduit communicating with teat cups, a flexible diaphragm forming, with a portion of the housing, a diaphragm chamber which communicates with the pulsation chamber through a restricted by-pass in the housing, the diaphragm being exposed at one side to the atmosphere and provided with an air tube secured in a central opening in the diaphragm and extending from the latter to the pulsation chamber, and a pair of floating valves connected by a stem passing through said air tube and operable by movements of the diaphragm to alternately connect the pulsation chamber with the atmosphere through said air tube, and with the vacuum pipe line.

5. A pulsator comprising a housing including a pulsation chamber open to the atmosphere and provided with a valve seat, means above the valve seat adapted for connection with a vacuum pipe line and means below the valve seat adapted for connection with an air and vacuum conduit communicating with teat cups, a flexible diaphragm forming, with a portion of the housing, a diaphragm chamber which communicates with the pulsation chamber through a restricted by-pass in the housing, the diaphragm being exposed at one side to the atmosphere and provided with a valve seat and with an air tube secured in a central opening in the diaphragm and extending from the latter to the pulsation chamber, said air tube being adapted to conform to movements of the diaphragm, a pair of stem-connected floating valves, one adapted to coöperate with the diaphragm valve seat and the other with the pulsation chamber valve seat; the arrangement being such that when air is exhausted from the pulsation chamber through the pipe line, the diaphragm is flexed in one direction to shut off the valve chamber from the pipe line and admit air under atmospheric pressure through the diaphragm opening and air tube to the pulsation chamber, and is subsequently flexed in the opposite direction to connect the pulsation chamber with the pipe line and exclude air from the pulsation chamber.

1,400,513. ELECTRIC BATTERY. RAYMOND C. BENNER, Fremont, Ohio, assignor to National Carbon Company, Inc., a Corporation of New York. Filed May 5, 1920. Serial No. 379,123. 11 Claims. (Cl. 204—38.)



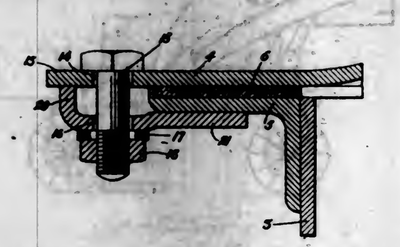
1. In a dry cell of the kind described, the combination of a depolarizing mix, a zinc electrode, and spacing means adjacent the mix and zinc electrode having passages therein for conveying liquid to moisten the mix.

1,400,514. TRACTION-LUG. JOHN A. BUNTZ, Harrisburg, Pa., assignor of one-half to Walter S. Schell and one-half to Bessie M. Buntz, Harrisburg, Pa. Filed Apr. 27, 1921. Serial No. 464,945. 7 Claims. (Cl. 301—44.)



7. The combination with a vehicle wheel, of a series of lugs interlocking with one another, each lug of the series comprising a main portion provided with arms oppositely disposed and at right angles to said main portion, each arm being provided with recesses and a tongue by means of which they are secured to the rim of the wheel and to each other, supplemental lugs comprising a base portion which is provided with a recess to receive a projection on the main portion of the main lug, triangular shaped teeth provided on the base of said supplemental lug and extending beyond the main lug and on each side of the main portion thereof.

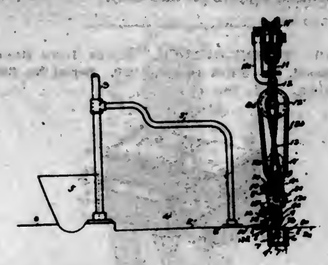
1,400,515. TRANSFORMER-COVER CONSTRUCTION. ROBERT V. BINGAY, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company, a Corporation of Pennsylvania. Filed Oct. 17, 1919. Serial No. 331,321. 2 Claims. (Cl. 220—55.)



1. The combination with a tank having a flange, of a cover having an edge overhanging said flange, a series of bolts passing through said edge, and a series of complementary clamping lugs carried thereby, the opposite ends of which lugs are adapted to exert upward pressure upon the under side of said flange and the under side of the overhanging cover respectively.

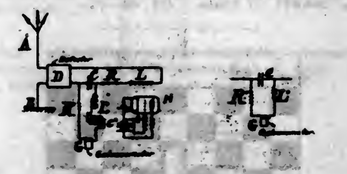
1,400,516. LITTER-COLLECTOR. ALFRED L. BISHMAN, Syracuse, N. Y. Filed Dec. 6, 1920. Serial No. 428,602. 2 Claims. (Cl. 119—15.)

1. In a litter collector, an elongated tray having a clear open top, the top edges along the opposite sides being provided with outwardly facing flanges, the flange at one side being in a higher plane than the flange at the opposite side, and the top edges of the ends of the tray rolled into beads which are disposed flush with said flanges, an I-bolt carried by one of the flanges, and similar lifting rods pivoted to the opposite ends of the tray, the



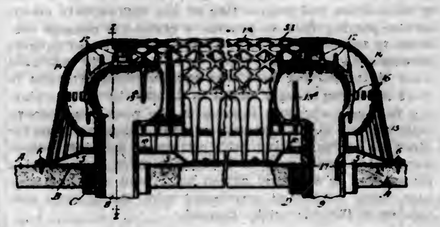
free ends of said rods comprising loops adapted to be engaged by a carrier mechanism for lifting and carrying the tray.

1,400,517. RECORDING APPARATUS FOR RADIOTELEGRAPHIC SIGNALS. ANDRÉ EUGÈNE BLONDEL, Paris, France. Filed Apr. 26, 1919. Serial No. 293,003. 2 Claims. (Cl. 250—8.)



1. Recording apparatus for radiotelegraphic signals comprising in combination a detector receiving the action of the aerial, an electric circuit of low resistance connected to the detector, a vibrating galvanometer, an electrically tuned circuit comprising the galvanometer connected to the said circuit of low resistance, the frequency of the galvanometer itself being adjusted so that each symbol recorded comprises a sufficient number of oscillations sufficiently close together and the electrical damping being, on the other hand, regulated so that the tuning may be attained at the end of a very small number of oscillations.

1,400,518. AUTOMOBILE-HEATER. THOMAS BOVEY, Chicago, Ill. Filed Oct. 17, 1919. Serial No. 331,378. 9 Claims. (Cl. 257—136.)



3. A horizontally extending heater comprising a tubular body having an intake pipe at one end and an outlet pipe at the other end, a cool air chamber extending longitudinally under said body and having an air inlet thimble and a discharge thimble depending therefrom, through which the intake-pipe and the outlet-pipe of said body extend, said pipes being spaced apart from said thimbles and said

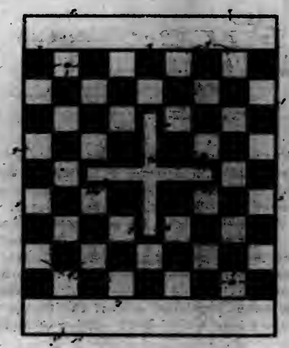
outlet pipe having a longitudinal passage therein that connects said chamber with the base of the outlet pipe, and a suitable support for said body.

1,400,519. TICKET-HOLDER. Elmer John Buckbee, Highwood, Ill. Filed July 2, 1920. Serial No. 395,727. 4 Claims. (Cl. 24—17.)



1. In a check holder, the combination with a hollow base-plate, of spring-tensioned U-shaped loops normally held within and at one end of said base-plate and adapted to yieldingly clamp one end of a pack of checks against said base-plate leaving the other end of said pack free.

1,400,520. GAME APPARATUS. George Herman Bugenhagen, Minot, N. D. Filed July 16, 1920. Serial No. 396,677. 1 Claim. (Cl. 46—64.)



A game board comprising a board having a playing field provided therein, said playing field being formed with a pair of straight continuous ways positioned perpendicular to each other, and intersecting at the approximate center of the playing field to provide a cruciform passage centered in the playing field and with a plurality of squares arranged about the ways and extending to the marginal lines of the playing field, said squares being arranged in rows extending at right angles to the direction of the playing field and alternate squares in the rows being identically colored to provide ways extending diagonally to the direction of the playing field, certain of said last named ways being continuous and the remainder thereof being interrupted by said first named ways, said cruciform passage being colored to correspond with the squares contiguous to the extremities thereof.

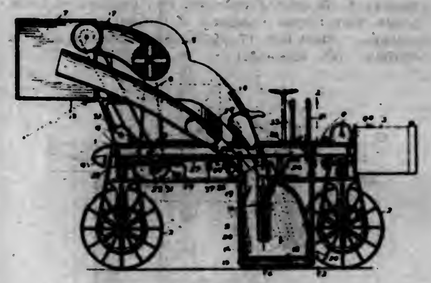
1,400,521. PAPER-ROLL HOLDER AND CUTTER. Elvah O. Bulman, Grand Rapids, Mich. Filed Mar. 28, 1921. Serial No. 456,100. 2 Claims. (Cl. 211—82.)

1. In a device of the character described; a support carrying a pivot pin; a cutter comprising a cutting bar and a supporting arm therefor having integral spaced-apart portions parallelly disposed and provided with aligned orifices therethrough rockably bearing on the pivot pin and having also an integral bight portion between said parallelly disposed portions provided with an aperture



and a rock member at one side thereof; a spring-pressed plunger slidable and swingable in a bearing on the support and having spaced-apart lugs between which said rock-member bears.

1,400,522. COTTON-HARVESTER. Burrell Cannon, Longview, Tex. Filed July 29, 1920. Serial No. 399,819. 5 Claims. (Cl. 56—30.)

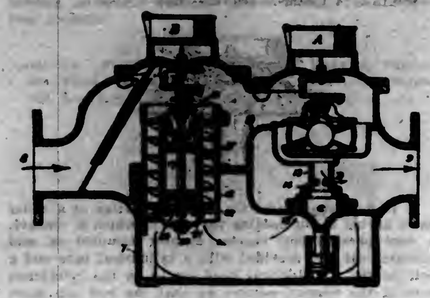


1. In a cotton harvester, a fan, a scoop, gathering devices, and means for setting said devices in operative position to be drawn along a row of plants, said devices including a pipe connected to said fan to direct a blast of air outwardly from said fan across the row to said scoop.

1,400,523. FLUID-METER. Horace Chessman, Edgewood Park, Pa., assignor to Pittsburgh Meter Company, East Pittsburgh, Pa., a Corporation of Pennsylvania. Original application filed Nov. 17, 1916, Serial No. 133,577. Divided and this application filed Dec. 20, 1917. Serial No. 208,004. 1 Claim. (Cl. 73—37.)

A metering device comprising in combination a casing through which the fluid to be measured flows, means in the casing for operating the meter, said means being actuated by the flow of fluid through said casing, a bearing for said means, and means cooperating with the operating means and spaced away therefrom to entrap a relatively stagnant body of fluid therebetween subject to the

impact of the fluid flowing through the casing, the space being so formed as to translate the impact pressure into



a pressure against the operating means in a direction opposite to the flow of fluid which acts to relieve the pressure on the bearing.

1,400,524. SPARK-PLUG. Grover Christern, New York, N. Y., assignor to Eureka Spark Plug Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 21, 1920. Serial No. 353,074. 3 Claims. (Cl. 123—169.)



1. A spark plug provided with a bushing, an insulating core in said bushing, a disk forming an electrode and means for supporting the same below said core, a surrounding electrode secured to the bushing, a projection on the disk and a projection on the bushing which is engaged thereby and means for turning the disk whereby the projections may be engaged or disengaged, as desired.

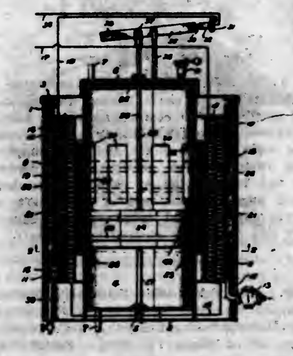
1,400,525. SPARK-PLUG. Grover Christern, New York, N. Y. Filed Nov. 17, 1919, Serial No. 338,607. Renewed June 7, 1921. Serial No. 475,831. 2 Claims. (Cl. 123—169.)

1. An article of the class described comprising a spark plug having a fixed electrode, a movable electrode having an end adapted to be brought into contact with the fixed electrode and rotated while in contact therewith to clean the same, a disk fixed to the upper end of said electrode having a plurality of recesses of varying depths, and a projection on the plug adapted to be brought to



rest in any one of said recesses by rotation of the movable electrode.

1,400,526. ELECTRIC WATER-HEATER. Herbert W. Christian, Detroit, Mich. Filed Sept. 7, 1920. Serial No. 408,606. 15 Claims. (Cl. 219—39.)



1. A water heating apparatus comprising an electric heating element, means to maintain a film of water about said heating element, and means actuated by a predetermined quantity of heated water to control the operation of said electric heating element.

1,400,527. ALLOY. Alvah W. Clement, East Cleveland, Ohio, assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 21, 1917. Serial No. 182,005. 7 Claims. (Cl. 75—1.)

1. A metallic alloy which is substantially non-warping and resistant to deterioration when heated to high temperature containing iron, chromium in excess of 10% and a small quantity of silicon and aluminum.

1,400,528. CAP. John Patrick Cook, London, Ontario, Canada. Filed July 21, 1919. Serial No. 312,851. 5 Claims. (Cl. 2—106.)

1. A cap comprising a band divided at the front, a top, the front part of the top from a similar point at each

side extending down further than the rear portion a distance approximately equal to the width of the band, a peak secured to the lower edge of the front part of the top, the band being secured to the outer surface of the



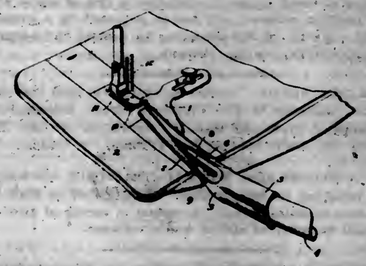
back part of the top and having free ends adapted to overlie the front part of the top next to the peak, one of the free ends formed with openings and the other end being provided with a hook for adjustably securing the band ends together.

1,400,529. PILE FABRIC FRAME. PERCIVAL W. COVELAND, Clark Mills, N. Y., assignor to The Hind & Harrison Plush Co., Clark Mills, N. Y., a Corporation. Filed May 7, 1918. Serial No. 233,037. 9 Claims. (Cl. 206—89.)



1. In a frame for storing and transporting pile fabric the combination of a shaft having angular-shaped ends, two end members each comprising a hub portion, an inwardly extending socket slidingly and removably fitting over the ends of said shaft and hook-supporting arms radiating from the hub portion, a set screw threaded through the hub portion of each end member with its inner end engaging the end of the shaft within the socket whereby the end members are adjustably, non-rotatably and removably secured to the shaft.

1,400,530. STRIP-FOLDER FOR SEWING-MACHINES. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Sept. 11, 1919. Serial No. 323,162. 9 Claims. (Cl. 112—147.)



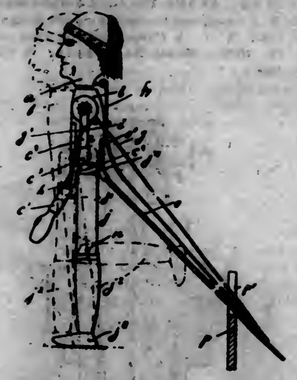
8. In a strip-folder, in combination, means for doubling a strip, and independently acting means for folding the marginal portions of the doubled strip into overlapping relationship.

1,400,531. STAYBOLT STRUCTURE. ETHAN I. DODDS, Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Filed Jan. 22, 1921. Serial No. 439,153. 4 Claims. (Cl. 85—15.)



1. In a staybolt structure, the combination of a boiler sheet having a bolt opening the wall of which is concave, a semi-spherical bolt bearing member mounted on said concave seat and provided with a cylindrical bore and a bolt having a cylindrical head seated in the cylindrical bore of the bearing member so that the bolt can move longitudinally therein.

1,400,532. MARIONETTE. MATHURIN M. DONDO, New York, N. Y. Filed Sept. 10, 1920. Serial No. 409,383. 2 Claims. (Cl. 46—40.)



1. In a marionette, a pair of arms capable of universal movements at the shoulders and elbow portions, and means for operating said arms, each of said means including a rigid member extending rearwardly of the arm, a link at one end connected to said member and at the opposite end to the lower part of the arm and a guide for said link on the upper part of said arm.

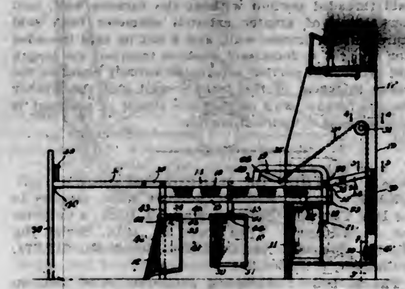
1,400,533. SPRINKLER. OSCAR F. ENGEL, Hartford, Conn. Filed May 25, 1920. Serial No. 384,017. 1 Claim. (Cl. 299—19.)



A sprinkler of the class described comprising a hollow body having its upper end open and provided adjacent thereto with a rubbered portion forming a seat, a laterally extending hollow supply nipple formed on and communicating with said body at its lower end, a semi-

spherical cap removably fitted in said seat of the body, means for removably fastening said cap to said body, and said cap having a plurality of offset circumferentially extending perforated portions formed therein, for the purpose specified.

1,400,534. FOLDING BED. ALBERT ERNEST, Paxton, Ill. Filed Feb. 28, 1916. Serial No. 80,819. 13 Claims. (Cl. 5—13.)



1. A folding bed comprising, in combination, a frame, a bed movable relatively to said frame, and a receptacle and a pivotal connection between parts rigidly connected with said receptacle and said bed respectively, and a second pivotal connection between said receptacle and said bed whereby said receptacle is maintained in substantially horizontal position.

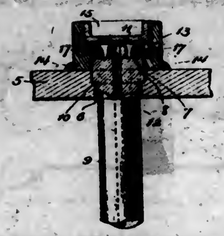
1,400,535. STAYBOLT STRUCTURE. JOHN ROGERS FLANNERY, Pittsburgh, Pa., and ETHAN I. DODDS, Central Valley, N. Y., assignors to Flannery Bolt Company, Pittsburgh, Pa. Filed Jan. 27, 1921. Serial No. 440,421. 3 Claims. (Cl. 85—1.5.)



1. In a stay bolt structure, the combination of a boiler sheet having a bolt opening, a bearing member welded to said sheet within the opening and provided with a cylindrical bore and a bolt having a cylindrical head mounted in said bore and movable longitudinally therein.

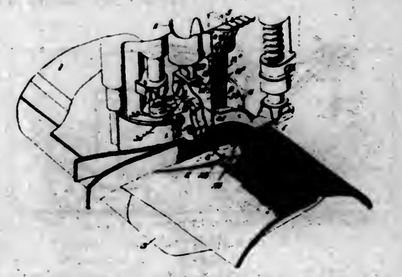
1,400,536. STAYBOLT STRUCTURE. JOHN ROGERS FLANNERY, Pittsburgh, Pa., and ETHAN I. DODDS, Central Valley, N. Y., assignors to Flannery Bolt Company, Pittsburgh, Pa. Filed Jan. 27, 1921. Serial No. 440,422. 3 Claims. (Cl. 85—1.5.)

1. In staybolt construction, the combination of a boiler sheet having an opening for a staybolt and a counterbored seat for the head of the bolt, a bolt having a tell-tale extending longitudinally through the same and provided with a head seated in the counterbored seat in the sheet



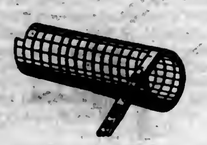
and a sleeve surrounding the head and welded to the latter, the sleeve also being secured to the boiler sheet.

1,400,537. PRESSER-FOOT FOR SEWING-MACHINES. GEORGE S. GATCHELL, Roselle Park, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Oct. 27, 1917. Serial No. 198,776. 28 Claims. (Cl. 112—235.)



1. In a sewing machine, the combination with covering stitch-forming mechanism and a trimmer, of presser mechanism including spaced toe-portions between which upturned marginal portions of material are adapted to pass to the trimmer, said toe-portions being formed with upwardly diverging and rearwardly and upwardly inclined guiding surfaces adapted to elevate and straighten curled or wrinkled edge-portions of the material as they pass into the space between the presser-toes.

1,400,538. BELT-MAKING PROCESS. CHARLES C. GATES, Denver, Colo. Filed Oct. 8, 1918. Serial No. 256,640. 8 Claims. (Cl. 154—4.)



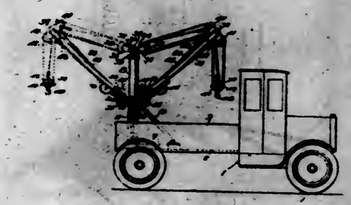
4. A belt-making process consisting in forming a cylindrical belt member from superposed layers of rubberized material, vulcanizing the said member, rotating the member and cutting a spiral kerf therethrough during the rotary movement thereof.

1,400,539. ENDLESS BELT. CHARLES C. GATES, Denver, Colo. Filed Mar. 12, 1919. Serial No. 282,626. 9 Claims. (Cl. 74—62.)



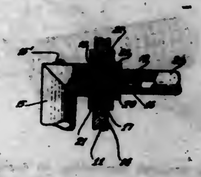
9. An endless vulcanized belt having rubberized cord embedded therein and lying substantially parallel with the length of the belt, the sides and the inner surface of the belt being composed of rubberized woven fabric whose warp and woof form oblique angles to the length of the belt.

1,400,540. TOWING-DERRICK. ALBERT GLOOR, Chicago, Ill., assignor to Sauger Derrick Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 20, 1921. Serial No. 438,731. 8 Claims. (Cl. 212—58.)



1. A derrick of the kind described, a fixed standard, a collar rotatable thereon between the ends thereof, a boom pivoted at one end to the collar, a cable connecting the free end of the boom to the top of the standard, a winding drum on the boom for said cable for lifting and lowering the boom, a second winding drum on the boom, a cable leading from the second drum to the free end of the boom and adapted to hang from the free end of the boom for connection to an object to be acted upon, and means for locking the collar against rotation on the standard.

1,400,541. WATER-HEATER. CHARLES C. HANSEN, New York, N. Y., assignor to Thermal Appliance Company, Inc., Elizabethport, N. J., a Corporation of New Jersey. Filed Oct. 8, 1920. Serial No. 415,479. 6 Claims. (Cl. 285—30.)

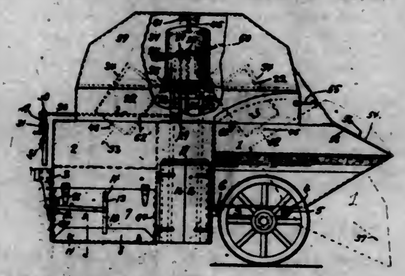


3. In combination with a furnace having a wall containing spaced apertures, a water heater comprising a heating pipe lying within the furnace and having a middle portion extending parallel to the wall of said furnace, and free end portions extending transversely to said wall and inlet and outlet water connections in the form of studs extending from said end portions of the heating pipe, one of said studs having a cylindrical portion extending through one of said apertures in the furnace wall and of less diameter than said aperture, said stud of less diameter than said end portions of the heating pipe, and a threaded portion extending from said cylindrical portion and of less diameter than said cylindrical portion, a washer on said cylindrical portion within the furnace wall, a washer on said threaded portion without the furnace wall, said washers being of greater external diameter than said aperture in the furnace wall, and a nut on said threaded portion adapted to force said washers together, the length of said cylindrical portion being substantially equal to the combined thickness of the furnace wall and the washer within the furnace wall so that the thrust of said nut is taken upon said cylindrical portion.

1,400,542. METHOD OF MAKING POTASSIUM CARBONATE. IRA F. HARLOW, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed June 16, 1916, Serial No. 103,976. Renewed Nov. 3, 1921. Serial No. 512,574. 18 Claims. (Cl. 23—23.)

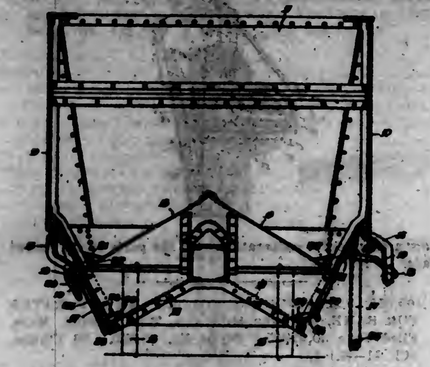
1. The method of extracting potassium salts from an alkaline bittern of the character described, which consists in mixing the same with tri-hydrate magnesium carbonate; subjecting such mixture to the action of carbon dioxid, at a temperature at which the double salt, potassium-magnesium carbonate is precipitated; without formation of any magnesium chlorid separating out such salt; decomposing the same into insoluable magnesium carbonate and soluble potassium carbonate; and then separating such resulting carbonates.

1,400,543. REFUSE-VEHICLE. WILLIAM W. HARRIS, New York, N. Y. Filed Jan. 20, 1917. Serial No. 145,446. 27 Claims. (Cl. 214—67.)



1. The combination with a vehicle frame, of a plurality of compartments, a carrier for conveying a receptacle thereon, means for discharging at will into any one of said compartments the contents of the receptacle when said carrier reaches a predetermined stage, means for mounting said carrier on said vehicle frame, means for mounting one of said compartments in fixed relation to said vehicle frame and means for mounting another of said compartments in pivotal relation on said vehicle frame, said pivotal mounting means being separate from said carrier and said fixed compartment mounting means.

1,400,544. DUMP-CAR-DOOR-OPERATING MECHANISM. HARRY S. HAAS, Chicago, Ill. Filed Sept. 21, 1918. Serial No. 254,626. 21 Claims. (Cl. 105—290.)



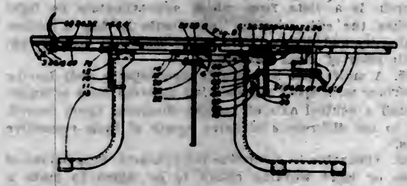
17. A dump car provided with a plurality of swinging doors, and means mounted upon one of said doors for engaging the adjacent door whereby the latter door is closed by the operation of the former door.

1,400,545. NUT-LOCK. PETER HLEB, Elizabeth, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed May 31, 1919. Serial No. 300,995. 2 Claims. (Cl. 151—21.)



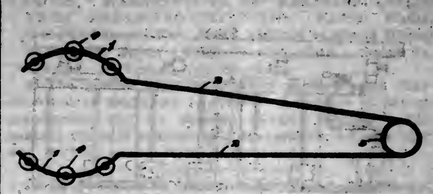
1. A nut comprising a substantially circular washer portion and a superposed auxiliary portion formed of resilient material and in one piece with the washer portion, both portions provided with threaded apertures slightly out of axial alinement, the aperture in the washer portion being located eccentrically thereof.

1,400,546. OSTEOPATHIC-TREATMENT TABLE. EDWARD D. HOLME, St. Joseph, Mo. Filed Nov. 15, 1920. Serial No. 424,122. 6 Claims. (Cl. 128—74.)



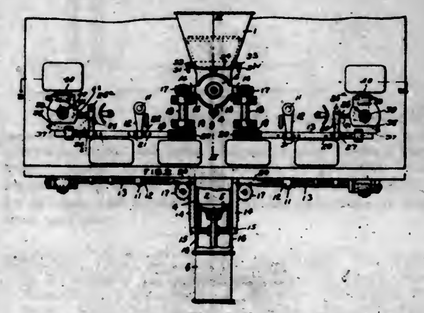
6. In an osteopathic treatment table; a pair of leg supports for supporting the legs of a person; mounting means whereby the inner ends of said leg supports are oscillatably supported for independent oscillation; springs whereby said leg supports are independently assisted in their upward oscillation; spring adjusting means whereby the tensions of said springs are separably adjusted; and securing means whereby said leg supports are independently secured at various angles of inclination.

1,400,547. APPARATUS FOR MASSAGE AND THERAPEUTIC GYMNASTIC TREATMENT. CARL G. HEMSTROM, Washington, D. C. Filed May 7, 1921. Serial No. 467,541. 3 Claims. (Cl. 128—57.)



1. A massage device comprising opposed oppositely bowed frames substantially conforming in curvature to the transverse curvature of a human limb and adapted to receive a limb therebetween, similarly curved rows of parallel massaging rollers carried by said frames and adapted to be rolled around the limb, and means whereby said frames may be held closed around the limb and jointly moved to operate said rollers.

1,400,548. STOKING MECHANISM. JOHN M. HOPWOOD, Dormont, Pa. Filed Feb. 20, 1918. Serial No. 218,269. 10 Claims. (Cl. 110—47.)



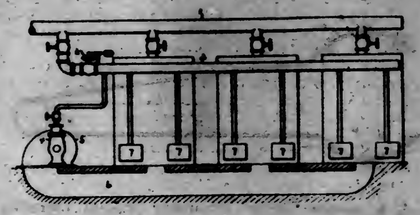
1. In a stoking mechanism the combination of means for feeding fuel into a furnace, fuel supporting means having members movable longitudinally to advance the fuel in a direction at a right angle to the direction of the feed of fuel, an ash supporting plate movable in the same direction as the fuel supports and connections from the fuel feeding means to the movable members of the fuel supporting means and to the ash plate and adapted to reciprocate the fuel supporting means and the ash plate simultaneously.

2. In a stoking mechanism the combination of a reciprocating plunger for feeding fuel into a furnace, fuel supporting means having members movable longitudinally in a direction to advance the fuel at an angle to the movement of the plunger, a movable ash plate means for adjusting the angular position of the ash plate and means operative by the plunger for reciprocating the movable fuel supporting means and the ash plates without changing the angular position of the ash plate.

1,400,549. COMBUSTION-REGULATING MEANS. JOHN M. HOPWOOD, Dormont, Pa. Filed Oct. 4, 1919. Serial No. 328,563. 2 Claims. (Cl. 236—14.)

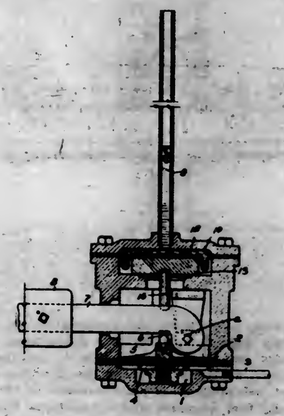
2. The combination of a battery of steam generators, a header connected to such battery, means for maintaining a

constant pressure of steam in said header, means for controlling the rate of combustion of fuel in the furnaces of



said battery, motors for operating said controlling means and connections from said header to the motors of the combustion controlling means.

1,400,550. METHOD AND MEANS FOR CONTROLLING AND REGULATING. John M. Horwood, Pittsburgh, Pa. Filed July 2, 1920. Serial No. 398,550. 3 Claims. (Cl. 137—157.)



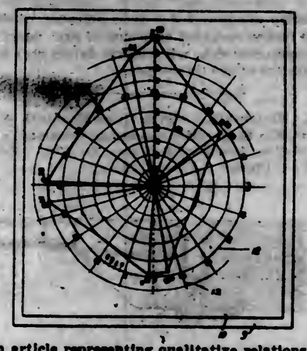
1. The method of operating a controlling mechanism embodying a movable member which consists in applying a variable pressure to one side of the movable member, applying to the opposite side of the movable member the pressure of a liquid column variable in height and by a movement of the movable member due to a change in the variable pressure, varying the height of the liquid column thereby restoring equilibrium between the pressures acting oppositely on the movable member.

1,400,551. OSCILLATING VALVE FOR PNEUMATIC MOTORS. Henry S. Hornbeck, Union Hill, N. J. Filed July 30, 1920. Serial No. 400,204. 1 Claim. (Cl. 230—36.)

In a valve for pneumatic motors, the combination of a concentric ported face and a movable valve member concentric with the ported face, supported on an axis concentric with the ported face and having formed in its inner face a channel for cooperation with the ports of the ported face.



1,400,552. COMPOUNDING COLORS AND APPARATUS FOR SAME. Arthur Howland, West Newton, Mass. Filed June 30, 1915. Serial No. 37,260. 36 Claims. (Cl. 41—6.)



2. An article representing qualitative relations of colors to each other, comprising a structure and spots thereon representing color: those of said spots whose colors differ in luminosity being arranged at directions and distances from each other which when projected upon a scale of luminosity are directly proportional to the differences in quantity of ingredient whites in the grays respectively equaling them in luminosity.

23. The art of color synthesis from a plurality of ingredients differing in hue from the color which is to be made, comprising the associating and spinning of said ingredients together, with a space left between them wherein is a vista from which approximately no light reaches the eye, whereby ingredients having a higher luminosity and diverse hue may be used in a desired synthetic color of lower luminosity.

26. A multi-color icenograph comprising a body having a surface with spots representing different hues arranged around a neutral axis at angular distances apart according to the differences of valve length of their respective hues.

33. Apparatus to determine the synthetic proportions of three or more working colors to be mixed to make a desired color; said working colors being of differing luminosity, of great strength, and of hues widely separated from each other; comprising in combination said working colors and a chart having fixed upon it spots indicating by their respective positions the hues and strengths and indicia associated therewith indicating the luminosities of said working colors relative to each other according to scales of color qualities; whereby ingredients of any required one of a multiplicity of other colors are computable from the chart by measure and by application of

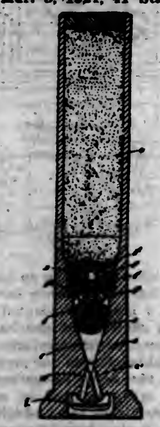
mathematical keys, and said required color is producible from said working colors by mixing them or some of them together as ingredients in proportions thus computed.

1,400,553. MIXING DEVICE. Charles Robert Jenks and Roy O. Young, Cleveland, Ohio. Filed July 16, 1921. Serial No. 485,381. 8 Claims. (Cl. 259—114.)



1. In a mixing device the combination of a casing, a valve movably mounted therein, a reaction turbine rotatably mounted in said casing, a delivery tube connected to said casing, a drive shaft attached to said turbine, and extending below said tube, a propeller stirrer mounted on said shaft, and automatic valve opening means carried by said shaft and adapted to open said valve to operate said turbine by contact with the bottom of the receptacle to be filled.

1,400,554. VENT-SEALING PERCUSSION-PRIMER. Frederick Geoffrey Lees Johnson, Westminster, England, assignor to Vickers Limited, Westminster, England. Filed May 14, 1919. Serial No. 297,151. 2 Claims. (Cl. 102—43.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

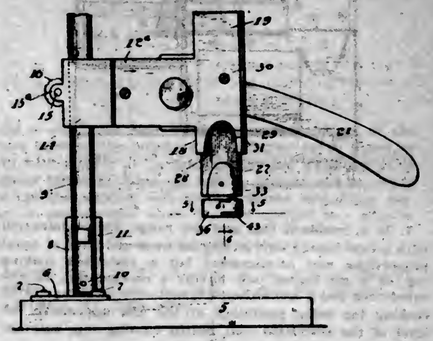


1. In a vent sealing percussion primer, a primer body provided with a flash passage and a conical chamber forming a seating, a magazine charge, a member closing the end of the magazine chamber and provided with a passage leading from the conical chamber to the magazine chamber, a small detonating charge placed within the said passage and separated from but communicating with the magazine charge, and a sealing pellet at the rear end of the said passage which pellet is adapted to be driven into the conical seating by the pressure due to ignition of the said detonating charge in front, for the purpose specified.

1,400,555. MANUFACTURE OF PARANITROANILIN FROM PARANITROACETANILID. Kaichi Kasai, O-Muta, Fukuoka Ken, Japan, assignor to Mitsui Mining Co., Tokyo, Japan. Filed Feb. 11, 1919. Serial No. 276,881. 2 Claims. (Cl. 23—24.)

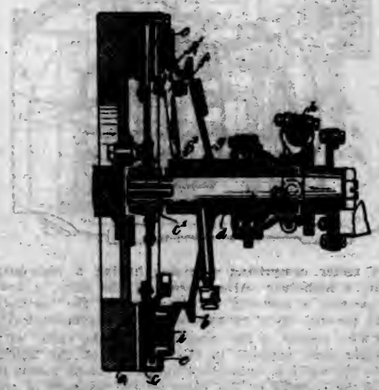
1. The process of manufacturing paranitranilin characterised by subjecting to pressure a mixture of paranitracetanilid and an aqueous alkaline solution, while heating the said mixture to a temperature between 120° and 130° C., substantially as described.

1,400,556. HAND-PRESS AND BOTTLE-CAPPING APPARATUS. Andrew Kaus, Chicago, Ill. Filed Feb. 21, 1921. Serial No. 446,626. 9 Claims. (Cl. 226—84.)



1. A capping machine comprising a standard, a carrier mounted thereon, a capping plunger reciprocable in said carrier having a rack upon one edge, a gear meshing with said rack and having an extension, an operating lever separate from said gear having a portion extended beyond its fulcrum, and means connecting the extensions of said lever and gear.

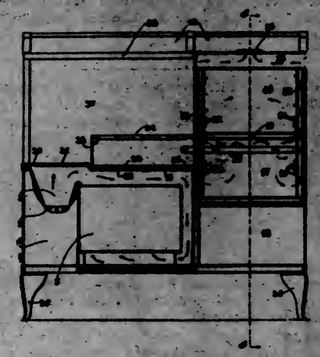
1,400,557. CLUTCH. August H. Leipert, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed May 21, 1920. Serial No. 383,124. 2 Claims. (Cl. 192—52.)



1. A clutch comprising a driving member, a friction clutch element, a shaft supporting it, the proximate faces

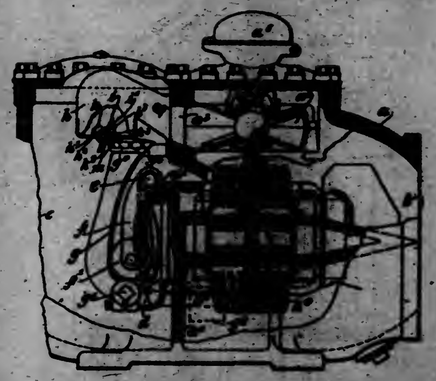
of the driving member and friction clutch element being in planes at right angles to the axis of the shaft, a plate movable to press all of said elements into driving engagement, said plate having its face inclined to the axis of the shaft to effect the surface engagement of said members throughout gradually, and means to manually slip plate thereby.

1,400,556. COMBINATION COAL AND GAS RANGE. Silas McClure, Beaver Dam, Wis. Filed Jan. 18, 1921. Serial No. 436,991. 3 Claims. (Cl. 126—36.)



1. In a combined coal and gas range, the combination with a coal heated unit having an oven and flues of usual proportions and arrangement but a restricted cooking top, of a gas heated unit having a cooking top, an elevated oven and a broiler beneath said oven, said gas heated cooking top being positioned at the side and above the level of the restricted coal heated cooking top, substantially as described.

1,400,559. WATER-METER. William L. Madden, New York, N. Y., assignor to Neptune Meter Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 28, 1920. Serial No. 413,268. 6 Claims. (Cl. 73—63.)



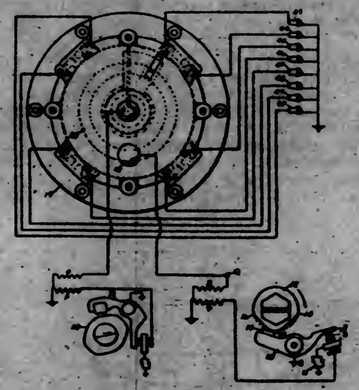
1. A meter comprising a casing having a high-duty passage, a high-duty valve to control the same, a low-duty passage, a butterfly valve to control the low-duty passage pivoted upon an axis which is unsymmetrically placed with respect to the exposed area of the valve, with the larger area opposed to the pressure of the liquid, whereby the valve is maintained normally closed, means to prevent the opening of the valve by the pressure of the liquid, and means actuated by the movement of the high-duty valve in one direction to open the low-duty valve.

1,400,560. PISTON-PACKING. Lewis C. Masselam, Walpole, Mass., assignor to Universal Metal Piston Ring Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 27, 1919. Serial No. 333,897. 6 Claims. (Cl. 74—568.)



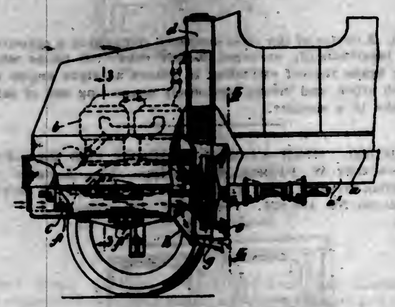
1. In combination with an integrally formed piston having a peripheral groove provided with radial walls, a packing within said groove comprising a packing ring, a resilient ring engaging the inner peripheral surface of said packing ring, and yielding means disposed between said second ring and a radial wall of said groove, said means being constructed and arranged to urge said resilient ring into engagement with the opposite radial wall.

1,400,561. IGNITION SYSTEM. Carl T. Mason, East Orange, N. J., and William J. Hart, Mount Vernon, N. Y., assignors to Splitdorf Electrical Company, Newark, N. J. Filed Oct. 16, 1917. Serial No. 196,894. 2 Claims. (Cl. 123—148.)



1. A distributer block for use in an ignition system for eight cylinder 45 degree four cycle internal combustion engines, and with a generator adapted to be driven at twice engine crank shaft speed and having a source of magnetic flux, a generating coil, a rotating element adapted to direct the flux through said coil in combination with means to produce two current impulses spaced 45 and 135 degrees apart when referred to said engine crank shaft, said distributer block being adapted to be attached to said engine and having terminals spaced 22½ and 67½ degrees with means for connection to sparking devices in said engine cylinders, a distributer finger inside said block geared to be driven by said engine at one half crank shaft speed, an annular ring in said distributer block with means for connecting a terminal of the generating coil thereto, a brush carried by said finger in rotating contact with said ring and a second brush in electrical contact with the first for contacting with said block terminals as the finger rotates, a terminal on said block adapted to be connected to an auxiliary generator, a third brush associated with the distributing finger in running contact with the last mentioned terminal, a distributing contact connected to said third brush and adapted to conduct sparking current to said distributer block terminals when said auxiliary generator is operated in the manner described.

1,400,562. COOLING SYSTEM FOR MOTOR-VEHICLES. Alfred F. Masury, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed July 10, 1920. Serial No. 395,860. 3 Claims. (Cl. 122—171.)



1. In a motor vehicle in combination with the side frame member of the chassis, a bottom pan open at the front end below the side frame member and in line with the lower crank case and open at the rear end in line with the lower crank case to give free flow of air in a straight line over the lower crank case.

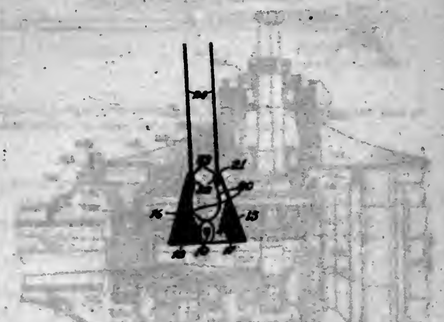
1,400,563. CUSHIONED CONNECTION FOR VEHICLE CONSTRUCTION. Alfred F. Masury and August H. Leipert, New York, N. Y. Filed Jan. 19, 1921. Serial No. 438,269. 5 Claims. (Cl. 267—30.)



1. In combination with two metallic parts of a motor vehicle, a yielding non-metallic connection therebetween, comprising a cushioned non-metallic block, a metallic seat for the block secured fixedly to one of said parts and a second metallic seat independent of the first named seat secured fixedly to the other of said parts, and means independent of one of said parts to hold the block on said seats against displacement.

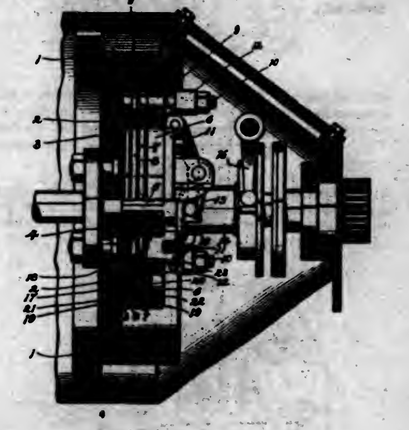
1,400,564. SIGN-HOLDER. Myer Metzger, Chicago, Ill. Filed Dec. 23, 1918. Serial No. 267,895. 4 Claims. (Cl. 40—146.)

1. A device of the character described embodying a supporting base, said base embodying two members, one of the members constituting an upright, means pivotally connecting said members whereby the said upright may be caused to assume any desired angle with respect to a supporting surface, and a sign holder flexibly connected with the upright and adapted to receive and removably



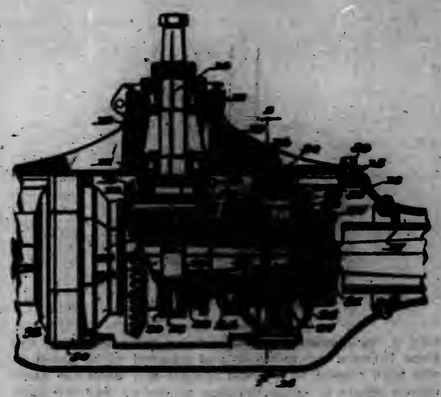
hold a sign, said sign holder being independent of the pivot between the members and adapted to be flexed at will with respect to the said upright and while the parts remain intact to cause the sign to assume and maintain an upright position with respect to the supporting surface in any position which the said upright may assume.

1,400,565. CLUTCH. Samuel M. D. Miller, Detroit, Mich. Filed Sept. 3, 1918. Serial No. 252,389. 7 Claims. (Cl. 192—107.)



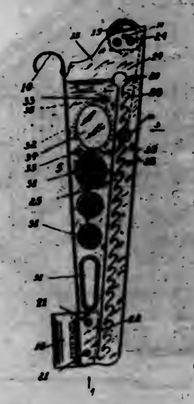
1. In a multiple disk clutch, the combination with a plurality of metal disks, of a facing for certain of said disks to oppose the metallic surface of other of said disks, comprising an annular piece of woven fabrci of a single thickness blanked from fabric having transverse and longitudinal fibers, whereby the fibers of the annular piece will extend transversely of the axis thereof, and means for securing said annular piece upon the plane face of the metallic disk.

1,400,568. MOTOR-VEHICLE. Alfred Moorhouse, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Detroit. Filed July 14, 1920. Serial No. 396,170. 3 Claims. (Cl. 74—60.)



2. In a vehicle axle, the combination with the differential gearing including a driven bevel gear having an extension, of a driven axle section, and planetary gearing means between said differential gearing and said axle section and having a bearing on said extension.

1,400,567. CURTAIN ATTACHMENT FOR WINDSHIELDS. Louis K. Mulford, Denver, Colo. Filed Feb. 24, 1919. Serial No. 278,087. 4 Claims. (Cl. 296—95.)



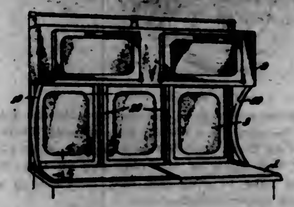
1. The combination with a window member, of shade roller brackets, mounted at the top of the upper member thereof and extending rearwardly therefrom, a shade mounted in the bracket and having a rod in the lower end thereof, the brackets also having downwardly inclined recesses to receive the extremities of the rod to hold the shade in adjusted position.

1,400,568. ANIMAL-POKE. Oscar M. Owens, Homer, Ga. Filed Nov. 6, 1920. Serial No. 422,594. 4 Claims. (Cl. 119—107.)



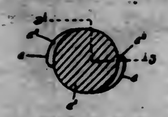
1. A device of the class described comprising a plurality of longitudinally arranged loosely connected hooks with the beaks thereof extending in planes at right angles to each other, and means for loosely connecting one of said hooks to a support.

1,400,569. HIGH-CLOSET BRACKET FOR RANGES. Stanley W. Fiddick, Beaver Dam, Wis., assignor to Silas McClure, Beaver Dam, Wis. Filed Jan. 21, 1921. Serial No. 438,826. 16 Claims. (Cl. 126—16.)



1. In stove and range construction, a bracket adapted to be arranged between the high closet and the stove or range, the body of the bracket being channel shaped, and the channel facing rearwardly and having the inner wall thereof of less height than the outer wall, and a holding strip secured to the bracket and overlying the said wall to clamp the splasher back to the said wall.

1,400,570. REINFORCE-BAR. Edward J. Paquin, Cincinnati, Ohio, assignor to The Pollak Steel Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 30, 1921. Serial No. 504,506. 3 Claims. (Cl. 72—111.)

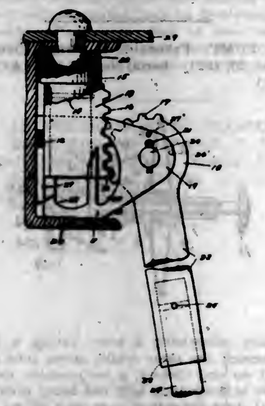


1. A reinforcing bar for concrete comprising a body having a substantially spheroidal or spherical form in cross section, and lugs extending circumferentially of the body and each extending gradually outward from the body at one end and terminating abruptly at its other end.

1,400,571. UNIVERSAL RIVET HOLDER-ON JAM. John H. Schmidt and Louis Ahlers, Harriman, Pa. Filed July 20, 1920. Serial No. 397,708. 3 Claims. (Cl. 78—83.5.)

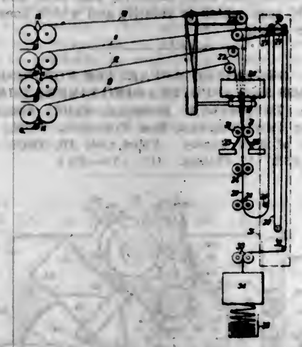
1. A holder-on jam comprising a supporting frame, a head movable through said frame, said head being shaped and proportioned to receive a die, a rack-bar for said head,

a member provided with a segmental toothed portion member for cooperatively engaging said rack-bar pivoted to said



frame, means arranged between said frame and member for supporting said member in inoperative position and an operating handle connected to said member.

1,400,572. MULTIPLE-PLY WEB FOR TYPEWRITERS. Jesse A. B. Smith, Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Original application filed July 20, 1918, Serial No. 245,810. Divided and this application filed Jan. 17, 1920. Serial No. 352,202. 9 Claims. (Cl. 270—4.)



1. The combination with means for assembling a multiplicity of plies of web in superposed relation, of means for applying padding adhesive material to the edges of only the interior plies, to cause all of the plies to adhere together when assembled.

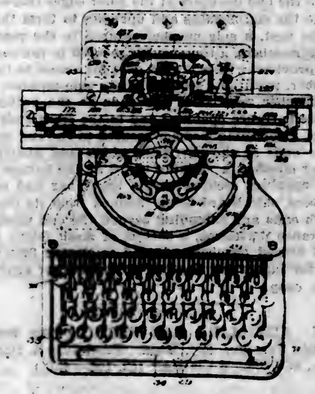
1,400,573. SUCTION LIFTING IMPLEMENT. William Staples, Philadelphia, Pa. Filed Jan. 6, 1921. Serial No. 435,400. 7 Claims. (Cl. 294—64.)

1. A suction lifting implement comprising a handle member, a suction cup applied to one end of said member, a screw member for securing said cup to said handle member, said screw having a duct or passage longitudinally



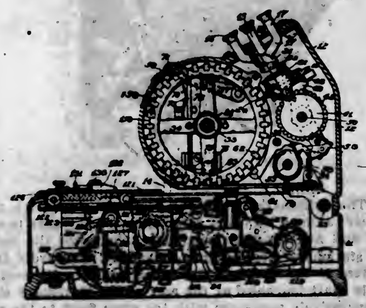
therethrough, and releasable means for engaging the end of said screw to close said duct or passage.

1,400,574. CHECK-WRITER. Herbert H. Steele, Pittsford, N. Y., assignor to Todd Protectograph Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Apr. 11, 1919. Serial No. 289,389. 23 Claims. (Cl. 197—6.5.)



1. In a machine of the class described, the combination with a plurality of sets of type, of an impression member for each set and means for selectively actuating the impression members.

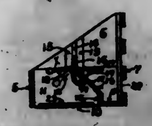
1,400,575. CHECK-WRITER. Herbert H. Steele, Pittsford, N. Y., assignor to Todd Protectograph Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 21, 1919. Serial No. 291,617. 28 Claims. (Cl. 101—97.)



1. In a machine of the class described, the combination with a series of adjustable type carriers, each provided

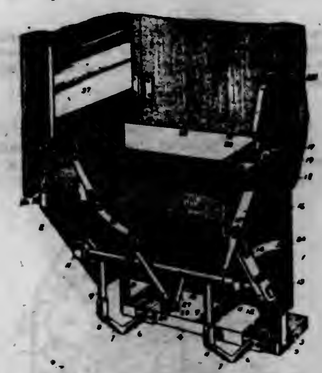
with type forms to print all of the words used in writing amounts, of a key board common to the type carriers, and means controlled by the key board for setting the type carriers to print different amounts.

1,400,576. NEST. EMIL F. STENEMAN, Arcadia, Wis. Filed June 27, 1921. Serial No. 480,623. 3 Claims. (Cl. 119—49.)



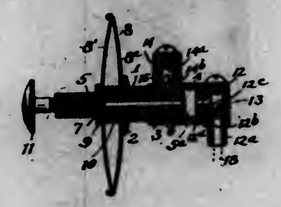
1. The combination in a nest, of end members having their top edges inclined toward the rear and provided with entrance apertures at their lower front corners, uprights secured to the end members at the front edges thereof, bars secured to the end members and uprights to form the front side of the nest, a side member secured to the rear edges of the end members, a top member secured to the end members and provided with a hinged part for access to the nesting chamber, partitions secured to the side member, a connecting member secured to the ends at the bottom rear edge of the entrance openings and to the front ends of the partitions, a retaining member secured to the end members and front ends of the partitions above and abutting the connecting member, a running board at the bottom of the entrance openings secured to the lower bar and connecting members, said board being inclined from its center toward both ends and extending beyond the end members to form entrance platforms, a bottom of mesh fabric for the nest, and hinged members adapted to engage fasteners in the wall for supporting the nest with its front against the wall of a coop.

1,400,577. AUXILIARY CAR-STEP. PETER SWANSON and AXEL CARLSON, Ely, Minn. Filed July 8, 1921. Serial No. 483,168. 4 Claims. (Cl. 105—430.)



4. The combination with the vestibule steps of a railway car having a trap door controlling the entrance to said steps and an adjustable auxiliary step below the lowermost stationary step, of arms extending rearwardly from and fixed to the auxiliary step, a horisontally disposed rotatable shaft journaled at the rear of the stationary steps and operatively connected with the arms fixed to the auxiliary step, a lever fixed to said shaft and extending upwardly therefrom, an operating lever pivotally mounted to the floor of the vestibule and extending therewithin, the lower end of which is pivotally connected with the lever fixed to the shaft, and levers coöperatively connecting the rotatable shaft with the trap door whereby the latter is simultaneously operated with the auxiliary step.

1,400,578. PUMP. FREDERICK D. SWEET, Cleveland, Ohio. Filed Mar. 25, 1921. Serial No. 455,444. 4 Claims. (Cl. 103—10.)

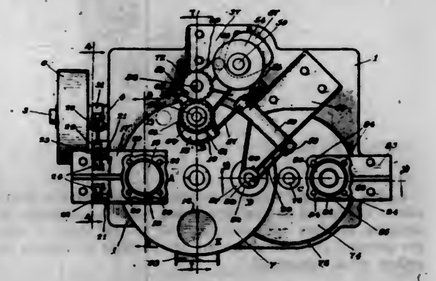


1. A pump comprising a body having a longitudinal opening through the same which opens into an enlarged chamber at an end thereof, a reciprocable rod extending through the said opening, said rod being provided with a longitudinal duct extending part way of its length and communicating with the said chamber, said duct having an opening to the outer surface of the rod at one end of the duct, a casing having a movable wall, the opening in the duct communicating with the interior of the casing, a liquid inlet and a liquid outlet communicating with the said chamber in the body and valvular means controlling both inlet and outlet.

1,400,579. WATERPROOFING SUBSTANCE FOR FIBROUS MATERIAL. ALFRED O. TATE, New York, N. Y. Filed Jan. 24, 1920. Serial No. 353,901. 3 Claims. (Cl. 134—12.)

3. A waterproofing composition for fibrous material comprising an aluminum soap, albumen, zinc oxid, and a solvent for said soap which is volatile and which does not of itself stain fabric.

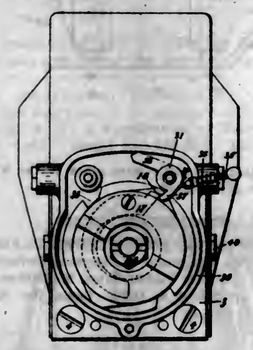
1,400,580. ORGANIZED APPARATUS FOR GROOVING CAN ENDS AND APPLYING RING-LINERS THERETO. IVAN D. THORNBURGH, Berkeley, Calif., assignor to American Can Company, San Francisco, Calif., a Corporation of New Jersey. Filed Oct. 10, 1918. Serial No. 257,636. 17 Claims. (Cl. 113—80.)



1. In an apparatus for the described purpose, the same comprising means for receiving and positioning straight flanged can ends at a forming station and transferring the same to an assembling station, mechanism situated at the forming station for circumferentially grooving the wall connection between the straight flange and the body

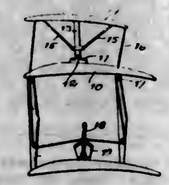
member of a can end positioned at said station, means for positioning a gasket ring liner at the assembling station and in axial alinement with a grooved can end there positioned, mechanism at said station for assembling the can end and gasket liner by distorting the inner peripheral edge portion of the liner to pass the overhang of the groove formed in the can end in order to seat within the groove, and devices for ejecting the gasket lined end.

1,400,581. AUTOMATIC IMPULSE STARTING APPARATUS. HENRY TIEDEMANN, Newark, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Filed Jan. 22, 1919. Serial No. 272,529. 16 Claims. (Cl. 123—140.)



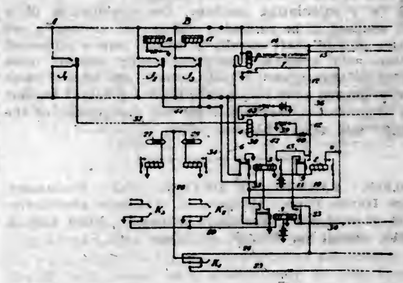
1. In a device of the class described, the combination with the rotor of a magneto having a driven member attached thereto, of a driving member for actuating the same, accelerating means associated with said driven member and connecting the same to said driving member, devices in proximity to said driven member for restraining the same, means for holding said devices in nonrestraining position, means carried by said driving member for throwing said devices to restraining position and means for releasing said devices to permit the accelerating means to actuate the rotor.

1,400,582. AEROPLANE. WILLIAM TILSON, Herrin, Ill. Filed Apr. 16, 1921. Serial No. 462,011. 2 Claims. (Cl. 244—12.)



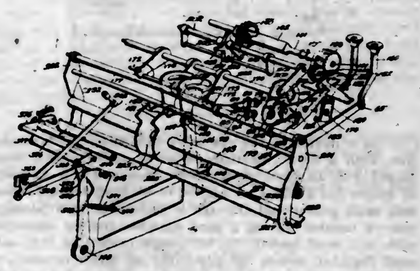
1. In an aeroplane, the combination with a fixed main supporting plane thereof, of a pivotal support extending longitudinally of the main plane, vertical uprights carried by the pivotal support, an auxiliary supporting plane secured to said uprights and normally having the same angle of incidence as the main plane, and means for shifting said auxiliary plane upon the mountings thereof to increase the angle of incidence.

1,400,583. TELEPHONE SYSTEM. JOHN F. TOOMEY, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Apr. 18, 1918. Serial No. 229,368. 4 Claims. (Cl. 179—48.)



1. In a telephone exchange system, a trunk transmission line terminating at a central office in a plurality of sets of switching terminals located at different switchboard positions, indicating means located at a plurality of said switching terminals, signaling means located at one of said last mentioned sets of switching terminals, and means responsive to current coming in over said transmission line for operating said indicating means and said signaling means.

1,400,584. CALCULATING-MACHINE. JOHN C. WAHL, Chicago, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 20, 1917. Serial No. 156,009. 40 Claims. (Cl. 235—78.)



1. In a calculating machine, the combination of a series of adding keys, a series of actuators each controlled by one of said adding keys, a differential member operated directly by said actuating members, a universal bar controlled directly by each of said actuating members, and full stroke mechanism comprising coöperating parts, one of which is carried directly by each of said actuating devices.

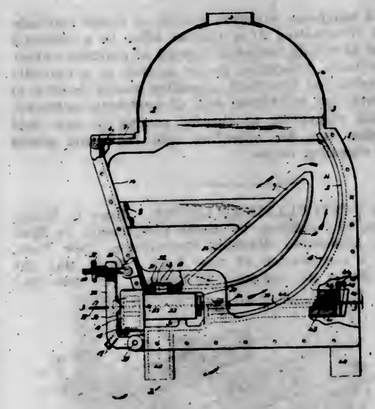
10. In a calculating machine, the combination of a movable platen, a set of tabulator keys adapted to tabulate said platen in either direction and thereby locate any position determined by the particular tabulator key operated, means to rotate said platen step by step, and

means common to all of said tabulator keys to operate said rotating means upon the operation of any of said tabulator keys whether said tabulator sets said platen toward the right or toward the left.

15. In a calculating machine, the combination of a movable master group consisting of a master wheel and a universal member, a stationary rack attached to the framework of the machine, a set of numeral keys, and means to definitely aline said master group by engagement of said universal member with said rack upon the operation of any of said numeral keys.

32. In a calculating machine, the combination of a shaft adapted to be rotated a differential amount, a set of arms on said shaft spirally arranged, rollers supported between said arms and two differently shaped cams adapted to engage each of said rollers, one of said cams being so shaped as to rotate said shaft a different amount from the rotation resulting from the engagement of the other of said cams with said roller.

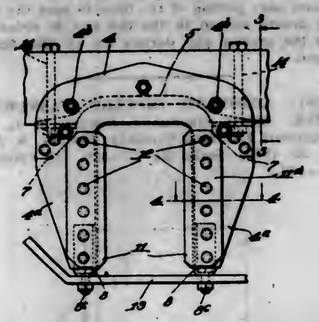
1,400,585. SAND-BLAST DEVICE. Fred Washburn, New Haven, Conn.; Margaret A. Washburn administratrix of said Fred Washburn, deceased. Filed July 2, 1919. Serial No. 308,229. 6 Claims. (Cl. 51—8.)



1. In a device of the character described, the combination with a frame partitioned so as to provide a sand pocket and an open passageway upon one side thereof; of means for guiding an article to be sand treated below said sand pocket and through a portion of said passageway; a member having a sand chamber therein connected with said sand pocket; an air nozzle projecting into said sand chamber, means for admitting air under pressure to said air nozzle and through said sand chamber to said guiding means, whereby said sand is moved from said sand chamber through said guiding means, and open passageway and into said sand pocket.

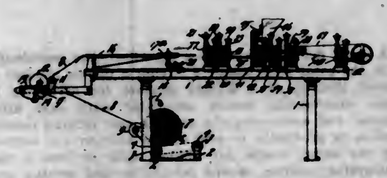
1,400,586. TRUCK-PEDESTAL. Joseph B. Weaver and Peter Parks, Chicago, Ill., assignors to The Pullman Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 10, 1920. Serial No. 429,669. 8 Claims. (Cl. 105—224.)

1. In a truck construction, a pedestal comprising a front suspension plate having an upstanding connection arch adapted for connection to the truck wheel piece and depending jaw portions, a relatively thinner rear guide plate having an upstanding arch portion and depending jaw portions, spacer members connecting said plates and



means connecting the suspension plate to the wheel piece to support the guide plate.

1,400,587. MACHINE FOR MAKING PAPER BAGS. Leslie Walter Welaford, Melbourne, Victoria, Australia, assignor to James Clason Gates, Melbourne, Victoria, Australia. Filed July 8, 1920. Serial No. 394,651. 5 Claims. (Cl. 93—14.)

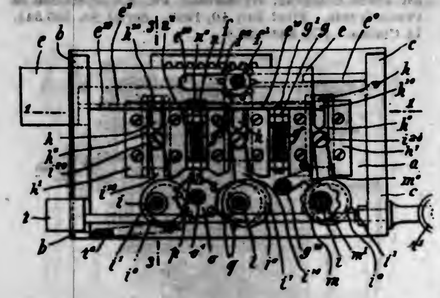


1. A machine of the class described comprising in combination a supporting belt, a paper roll, guide rollers, a pasting roller, a templet, adjustable guiding rollers, drawing-in rollers, rollers adapted to part the bag blank and crease the same, parting knives mounted on the last-named rollers, a flexible rod having a projection thereon, a hook, a guide tongue, a supporting plate, creasing and folding rollers, a paste roller associated therewith, a paste box, folding rollers in advance of the first-named folding rollers, a hook having a bifurcated end, folding rollers in advance of the second-named folding rollers, a belt, a knotted endless cord, and finishing rollers, the various rollers being arranged in pairs one above the other with the several pairs disposed in line along the length of the machine.

1,400,588. LOCK. Albert Winkelmann, Paris, France. Filed June 14, 1920. Serial No. 389,053. 7 Claims. (Cl. 70—60.)

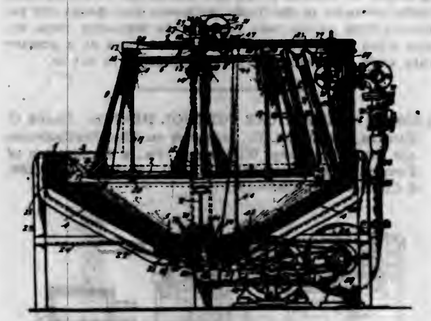
1. In a combination lock, the combination of a reciprocating bolt, means for retracting and projecting said bolt, a plurality of independently movable slides each having spaced abutments with a clearance passage between them, the abutments being adapted normally to block retraction of the bolt and movable to a position between the ends of the path of travel of the slides to release the bolt, a

separate manually rotatable means for operating each slide, and a connection between each rotatable means and



its slide constructed and arranged to positively move the slides into and out of the bolt dogging position.

1,400,589. BLACKLEADING-MACHINE. William M. Wood, New Brighton, N. Y., assignor to R. Hoe and Co., New York, N. Y., a Corporation of New York. Filed May 18, 1917. Serial No. 169,891. 36 Claims. (Cl. 91—7.5.)



13. In a black leading machine, the combination of a rotary case carrier, means for holding a case thereon, means for supplying black lead solution to the face of the case, and means for continuously rotating the carrier past the solution-supplying means.

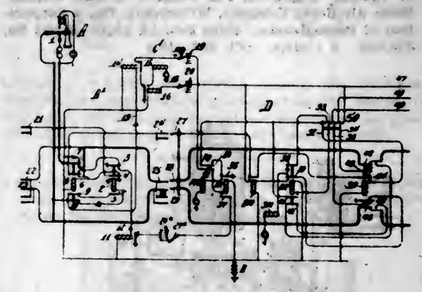
16. In a black leading machine, the combination with a case carrier, of means for supporting a case thereon, means for supplying black lead solution to the face of the case, means for evening the lead solution, and means for removing surplus solution from the face of the case while it is on the carrier.

24. In a black leading machine, the combination of a case carrier, solution applying means, a shaft on which the carrier is supported, a driving shaft, a controller for effecting driving connection between the shafts, and a stop for holding the controller in operative position.

35. In a black leading machine, the combination of a case carrier, means for carrying a case on the carrier in an angular position, nozzles angularly arranged adjacent the carrier for supplying black lead solution to the face of the case, and means for driving the carrier.

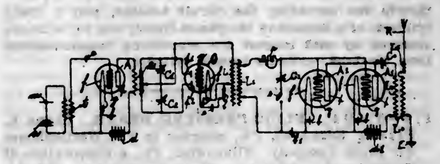
1,400,590. SELECTIVE TELEPHONE SYSTEM. Alfred H. Dyson, Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company, a Corporation of Illinois. Filed Nov. 29, 1907. Serial No. 404,203. 86 Claims. (Cl. 179—27.)

2. A semi-automatic telephone system including telephone lines, a main exchange in which a portion of said lines terminate, a branch exchange in which a portion of said lines terminate, trunk lines interconnecting said exchanges, means for automatically connecting a calling line of said branch exchange over an idle one of said trunks with said main exchange, impulse controlling mechanism at said main exchange for transmitting di-



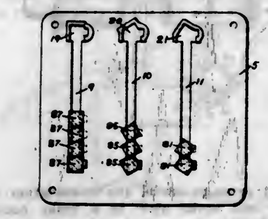
rective currents back over said same trunk to link the calling line to the called line, means for thereon freeing the trunk while leaving the connection of subscribers continuing, and means used alternatively to said impulse controlling mechanism and said trunk freeing mechanism to manually link the connected trunk to the called line.

1,400,591. ELECTRICAL WAVE TRANSMISSION. Cornelius D. Ehret, Philadelphia, Pa. Filed Mar. 12, 1919. Serial No. 282,166. 4 Claims. (Cl. 179—171.)



4. Thermionic oscillation-producing means comprising a source of current representing sound waves, anodes connected to the different terminals of said source, grid structure, electron-emitting means, a connection from said electron-emitting means to a point intermediate said terminals of said source, and means coupling the anode and grid circuits.

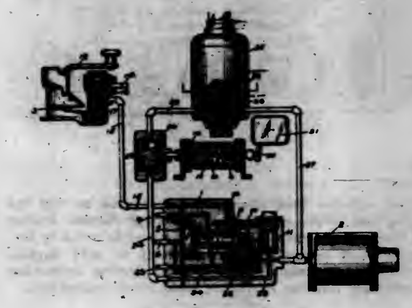
1,400,592. STAFF-EXCHANGE BOX. Clyde C. Farmer, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed May 12, 1920. Serial No. 380,858. 18 Claims. (Cl. 246—19.)



1. A staff exchange box provided with a plurality of staff receptacles, each adapted to contain a plurality of staffs of a different type and each receptacle having a

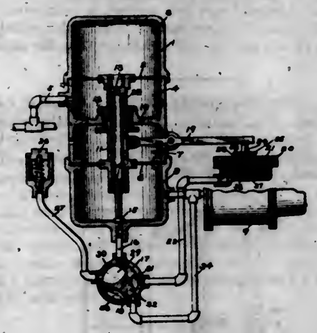
staff receiving opening shaped to permit the insertion of one type of staff and prevent the insertion of other types.

1,400,593. SAFETY CAR-CONTROL DEVICE. CLYDE C. FARMER, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Feb. 14, 1920. Serial No. 358,605. 3 Claims. (Cl. 303—19.)



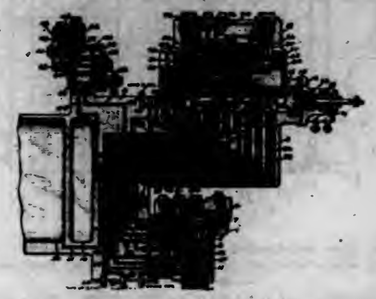
1. In a safety car control apparatus, the combination with a car motor circuit breaker, a cylinder, a piston therein for operating the circuit breaker, and a brake cylinder, of a magnet in the power circuit and valve means operated by said magnet for controlling communication from the brake cylinder to said cylinder.

1,400,594. FLUID-PRESSURE BRAKE. CLYDE C. FARMER, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed June 30, 1920. Serial No. 392,965. 10 Claims. (Cl. 303—59.)



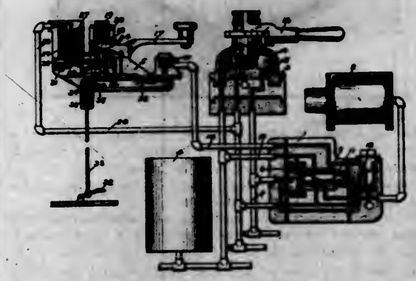
1. In a fluid pressure brake, the combination with a brake cylinder and brake pipe, of a brake controlling valve device subject to the pressures of the brake cylinder and brake pipe and means for compensating brake cylinder pressure on said valve device retained in the brake cylinder.

1,400,595. LOAD BRAKE EQUIPMENT. CLYDE C. FARMER, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed July 10, 1920. Serial No. 395,841. 14 Claims. (Cl. 303—23.)



1. In a fluid pressure brake, the combination with a plurality of brake cylinders and means for connecting one or more brake cylinders into service according as the car is empty or loaded, of a valve device for retaining fluid under pressure in the brake cylinders and means for releasing fluid at one rate through the retaining valve device when one brake cylinder is cut in and at a greater rate when a plurality of brake cylinders are cut in.

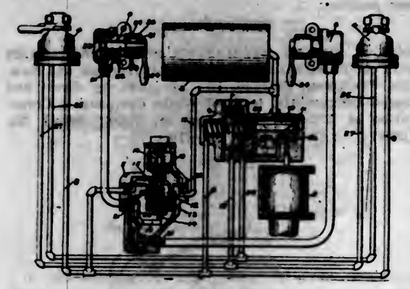
1,400,596. SAFETY CAR-CONTROL DEVICE. CLYDE C. FARMER, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed July 27, 1920. Serial No. 399,250. 6 Claims. (Cl. 303—19.)



1. In a safety car control equipment, the combination with a controller handle and means for effecting an application of the brakes, of a device tending to operate said means and held inoperative by said handle, and means operated upon applying the brakes for also holding said device inoperative independently of said handle.

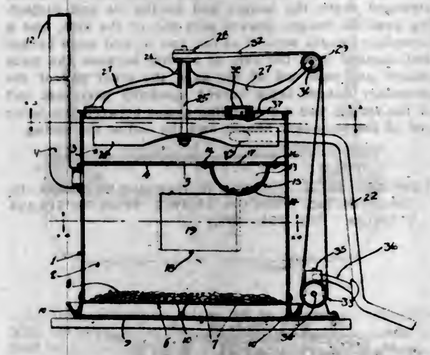
1,400,597. FLUID-PRESSURE BRAKE. CLYDE C. FARMER, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Aug. 7, 1920. Serial No. 401,897. 7 Claims. (Cl. 303—69.)

7. In a fluid pressure brake, the combination with a brake pipe, an emergency valve device operated upon a reduction in brake pipe pressure for effecting an application of the brakes, and a brake valve device for controlling the brakes, of a main reservoir, a main reservoir supply pipe connected to said brake valve device, the emergency valve device being operative in release position to supply fluid from the main reservoir to said supply pipe and in emergency position to cut off the supply and a release



valve mechanism for supplying fluid from the main reservoir to the brake pipe to effect the release of the brakes when the emergency valve device is in emergency position.

1,400,598. APPARATUS FOR PRODUCING NOXIOUS GASES AND METHOD OF ASPHYXIATING OBNOXIOUS ANIMALS. GATES M. FOWLER, Los Angeles, Calif. Filed Mar. 23, 1920. Serial No. 367,988. 6 Claims. (Cl. 43—129.)



1. In an apparatus for producing noxious gases, a container having a combustion chamber adapted to hold fuel, a tube connected with the container, means in the container to expel the gases of combustion into the tube, an internal combustion motor operatively connected with the gas-expelling means, and a tube connecting the motor exhaust with the first named tube.

5. The method of asphyxiating obnoxious animals, which consists in burning fuel in an inclosed chamber to produce carbon dioxid gas, vaporizing sulfur with the heat from the burning fuel, mixing the sulfur vapor with some of the carbon dioxid gas to form carbon disulfid gas, and injecting the disulfid gas into the cavities occupied by the animal.

1,400,599. ROLLER-BEARING. GEORGE A. GABRIEL and JOHN T. SKILLINS, Westbrook, Me., assignors to Dana Cotton Harvester Company, Westbrook, Me., a Corporation of Maine. Filed Oct. 11, 1918. Serial No. 257,712. 1 Claim. (Cl. 64—59.)

A ball bearing having two opposing conical faces, each face having a shallow groove of greater radius of transverse curvature than the balls forming a ball race, balls running therein, the balls contacting with opposing points in said grooves on a line substantially parallel with the axis of rotation of the bearing, the surfaces of the grooves at the points of contact being at right angles to said axis of rotation and a cage for holding the balls together



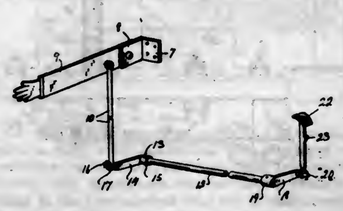
consisting of a thin ring having openings slightly larger than the ball and retaining projections on one side of the ring only, the retaining projections alternating on opposite sides of the ring with the entire series of balls.

1,400,600. ADJUSTABLE HAND-GRIP FOR CRUTCHES. JOHN B. GLOWACKI, Chicago, Ill. Filed July 3, 1920. Serial No. 393,791. 6 Claims. (Cl. 135—54.)



6. In a crutch, two wooden supporting members each having a plane face and a rounded face, a hand rest forming a cross piece between the plane faces of said supporting members, a rod of noncircular cross-section extending longitudinally through said hand rest, a fixture of sheet metal having a plane surface on one side bearing against the plane surface of one of said supporting members and curved surfaces adjacent to said plane surfaces partly inclosing the rounded face of said supporting member and forming the other side of said fixture, the edges of said curved surfaces farthest from the plane surface being separated, said fixture having a socket upstanding from the plane side, one portion of said socket being noncircular, said socket being opposite the space between the said curved surfaces, a thread on said rod, a threaded sleeve inside the socket and coöperating with the threads on said rod and a noncircular flange on said sleeve coöperating with the noncircular portion of said socket to prevent relative rotation of said socket and sleeve, a fixture and sleeve at the other end of said rod, a thread on the last-named end of said rod coöperating therewith, the last-named fixture sleeve and thread being like the corresponding parts on the first-named end of the rod except that the thread is oppositely directed whereby rotation of the hand rest will draw the supporting members toward each other, one end of said rod being pointed and the other end having a bearing in a plane at right angles to the rod, both ends of said rod being sharpened to indent the wood when the supporting members so approach each other.

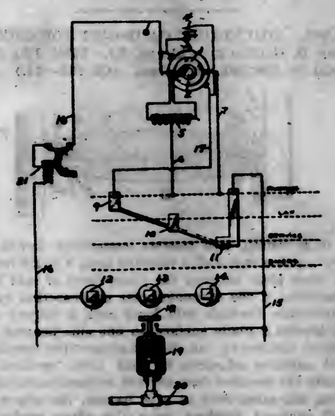
1,400,601. DIRECTION-INDICATOR FOR VEHICLES. THOMAS F. GOODWIN, Yelm, Wash. Filed Oct. 27, 1919. Serial No. 333,577. 1 Claim. (Cl. 116—52.)



A mechanism signal device for vehicles comprising a bracket secured upon and extending laterally from one side

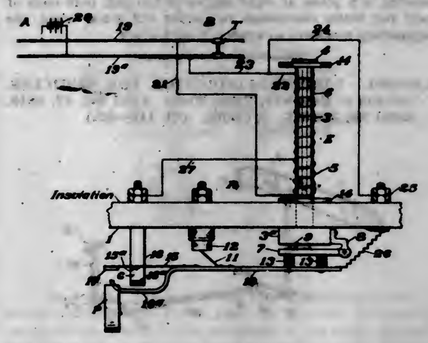
of a vehicle, a signal blade pivoted upon said bracket, a rock-shaft journaled longitudinally of the vehicle and provided at its ends with oppositely extending crank arms, a link pivotally connected with one crank and pivotally connected with the blade between the pivot and free end thereof, and a slidably mounted foot pedal pivotally connected with the other crank arm.

1,400,602. ELECTROPNEUMATIC BRAKE. JOHN B. GROSSWENDT, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 22, 1919. Serial No. 332,385. 8 Claims. (Cl. 303—20.)



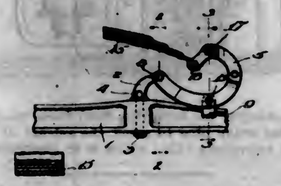
1. In an electro-pneumatic brake system, the combination with a plurality of magnets on each vehicle for controlling the brakes and adapted to operate at different voltages, of a train wire for supplying current to said magnets, a three wire generator system for impressing two different voltages on said train wire, and an additional generator element for impressing a third voltage on said train wire.

1,400,603. ELECTRICAL RELAY. CLINTON O. HARRINGTON, Edgewood borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Jan. 31, 1920. Serial No. 355,499. 14 Claims. (Cl. 175—335.)



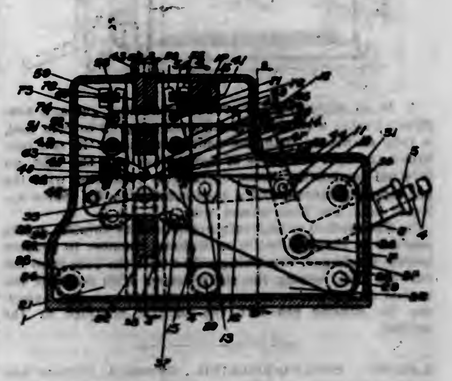
1. In combination, a relay having an energizing winding, a circuit for said winding including a resistance, a shunt around said resistance, and means for closing said shunt when the armature of the relay reaches almost the fully opened position, but for preventing said shunt from opening until the armature reaches almost its fully closed position.

1,400,604. SPRING MECHANISM FOR FRONT AXLES FOR AUTOMOBILES. HERBERT H. HOWARD and SAMUEL FURNISS, Chicago, Ill., assignors, by direct and mesne assignments, to Steel Wings Company, a Corporation of Illinois. Filed Nov. 26, 1920. Serial No. 426,474. 1 Claim. (Cl. 267—19.)



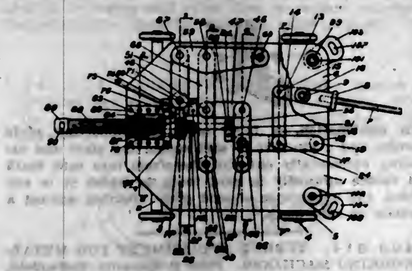
In combination, an axle, a main hanger projecting upwardly from the axle near one end of the latter, a spring arranged above the hanger and having its end projecting past the hanger toward said end of the axle, and a secondary hanger secured at one end to said main hanger and engaged with the axle at a point between the main hanger and said end of the axle, the other end of the secondary hanger being curved upwardly past said end of the spring, and a suspending means between the latter end of the secondary hanger and the end of the spring.

1,400,605. JACK. CHARLES H. HOWLAND-SHERMAN, Indianapolis, Ind. Filed Oct. 21, 1920. Serial No. 418,454. 8 Claims. (Cl. 254—108.)



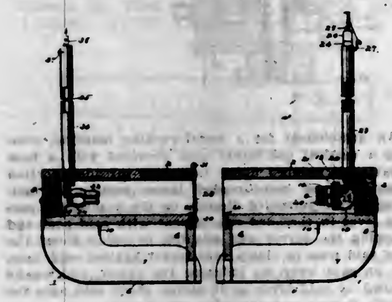
1. Combined in a jack a frame; a manually operable power-crank, pivoted in said frame; and inter-articulated dual sets of traction-levers, adapted to be actuated by said power-crank, substantially as described.

1,400,606. MECHANICAL PULLER. CHARLES H. HOWLAND-SHERMAN, Indianapolis, Ind. Filed Oct. 21, 1920. Serial No. 418,456. 6 Claims. (Cl. 254—1.)



1. The combination in a mechanical puller of a tractor-lever mechanism, with a tractor-screw mechanism adapted to be actuated by said tractor-lever mechanism, substantially as described.

1,400,607. GUARD FOR X-RAY TUBES. GEORGE C. JOHNSTON, Pittsburgh, Pa., and LESLIE S. UPHOFF, Schenectady, N. Y. Filed Aug. 21, 1916. Serial No. 319,036. 7 Claims. (Cl. 250—84.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



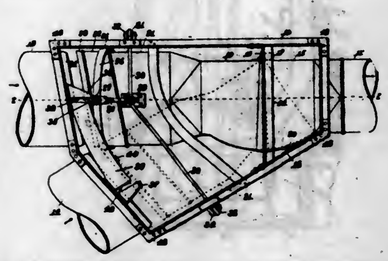
1. The combination, with an X-ray tube-stand, provided with the usual X-ray tube, of grounded metallic guards for said tube, carrying a pair of insulating members encircling said tube.

1,400,608. SPEED-CONTROL DEVICE FOR MOTOR-VEHICLES. JOHN EUGENE JORDAN, Seattle, Wash. Filed May 24, 1920. Serial No. 383,984. 1 Claim. (Cl. 175—355.)



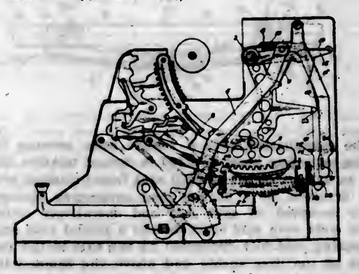
In a speed control device for motor vehicles, the combination with an ignition circuit including the sparking means in the vehicle engine, of a circuit closing device comprising a shaft adapted to be driven in accordance with the speed of the vehicle, a non-conductive plate fixed to the shaft, arms pivotally mounted on said plate, a contact collar fixed on the shaft, yieldable means of different strengths mounted on the plate engageable with the arms to normally retain the same in circuit closing contact with the contact collar, but yieldable under centrifugal pressure to permit the arms to disengage the collar at different speeds of the shaft, other collars fixed on the shaft and insulated therefrom, means electrically connecting one of said insulated collars with the contact collar, a brush for the latter insulated collar, having electrical connection with one terminal of said ignition circuit, brushes for the other insulated collars and switch controlled means individually connecting the latter collars with the other terminal of the ignition circuit.

1,400,609. PIPE-SWITCH. HARRY W. KNOWLTON and WILMER A. NEWTON, Lowell, Mass., assignors to Knowlton & Newton Co., Inc., Lowell, Mass., a Corporation of Massachusetts. Filed Jan. 10, 1921. Serial No. 436,400. 8 Claims. (Cl. 193—44.)



1. The combination of a delivery pipe; an oscillating compartment communicating continuously therewith and provided at its opposite end with a tubular extension; two supply pipes with either of which said extension is adapted to be alined; and a cylindrical member slidable endwise of said extension and adapted to make a tight connection with either of said supply pipes.

1,400,610. ADDING AND RECORDING MACHINE. HARRY LANDSIEDEL, Cincinnati, Ohio, assignor to The Dalton Adding Machine Company, Cincinnati, Ohio, a Corporation of Ohio. Filed May 12, 1919, Serial No. 296,323. Renewed Dec. 24, 1920. Serial No. 433,052. 25 Claims. (Cl. 235—60.)



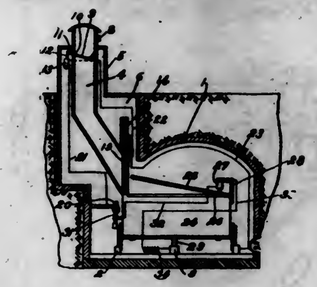
1. An adding and recording machine, comprising type-carriers, a rock shaft controlling the operation of said type-carriers, springs for actuating said type-carriers respectively, and mechanism for energizing springs corresponding to the type-carriers that are to be operated as an incident to operation of said rock shaft.

10. In an adding machine, the combination with adding wheels, racks for actuating said wheels, and springs for

actuating said racks in one direction, of a tensioning member in connection with each of said springs, an actuator for actuating said tensioning members to energize said springs selectively, and means for selectively connecting the tensioning members with said actuator.

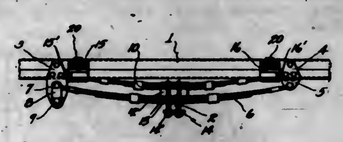
21. In an adding machine, adding wheels, a series of racks for actuating said wheels, a rock shaft controlling the operation of said racks, springs for actuating said racks selectively, and mechanism for energizing said springs corresponding to the racks that are to be operated as an incident to the turning of said rock shaft in one direction.

1,400,611. MAIL-COLLECTING APPARATUS. EMILE J. LEGER, Moncton, New Brunswick, Canada. Filed Dec. 10, 1920. Serial No. 429,798. 3 Claims. (Cl. 214—39.)



1. The combination with a receiving box having an outlet opening in the bottom thereof, of a door normally closing said opening, a normally opened trap between the ends of the box, an automatically operated car movable below and past the outlet end of the box, and means controlled by the car for automatically opening the door and closing the trap simultaneously.

1,400,612. VEHICLE-SPRING. NELS E. LIEBERG, Seattle, Wash. Filed Mar. 31, 1921. Serial No. 457,233. 1 Claim. (Cl. 267—45.)



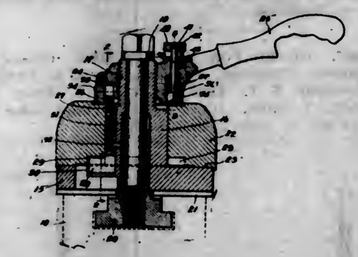
The combination with a vehicle body member having spring mounting brackets fixed in spaced relation thereon and an axle extended beneath said frame member between said brackets, of a normal load supporting spring centrally mounted on said axle and operatively connected at its ends with said brackets and a second load supporting spring centrally supported by the axle in the vertical plane of the first spring and above the same, with its opposite ends normally free, and brackets fixed to the body member overlying the free ends of the latter spring and having horizontal, downwardly facing shoulders for engaging the said free ends when said body is depressed by loads greater than normal and having vertical flanges engageably extending from said horizontal flanges for abutment by the ends of said second spring to prevent longitudinal movement of the body beyond a certain degree.

1,400,613. FALSE TOOTH AND SUPPORTING MEANS THEREFOR. NICHOLAS R. LOUBIE, Gloucester, Mass. Filed Feb. 14, 1920. Serial No. 358,650. 1 Claim. (Cl. 32—12.)



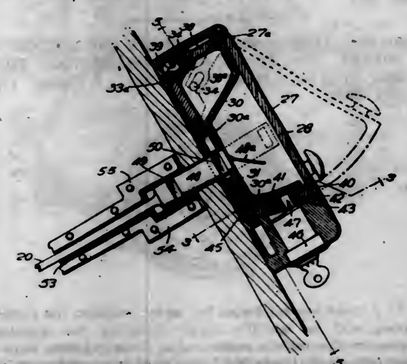
In combination, a false tooth, a supporting plate therefor and a pin fast to said supporting plate and extending horizontally outward therefrom into said tooth and thence upwardly in said tooth in which it is embedded, the upper edge of said plate abutting against a shoulder on said tooth.

1,400,614. TURRET ATTACHMENT FOR METAL-WORKING MACHINES. FRED P. LOVEJOY, Springfield, Vt. Filed Nov. 6, 1919. Serial No. 336,070. 17 Claims. (Cl. 29—49.)



1. An attachment for a metal-working machine, comprising a vertical non-rotary post provided with a base and having a reduced upper externally-threaded portion and an enlarged non-threaded lower portion, a tool-carrying turret journaled directly on the unthreaded portion, a lever in threaded engagement with said post and overlapping the turret and adapted to swing about the axis of said post to clamp said turret against said base, means on said lever for indexing the turret, and means controlled by said lever as it moves about said axis for positively locking and unlocking said turret.

1,400,615. LOCKING-VALVE. FREDERICK J. MCCALMONT, De Smet, S. D. Filed Sept. 25, 1920. Serial No. 412,720. 11 Claims. (Cl. 251—6.)



1. In a locking valve the combination with a valve embodying an operating stem adapted when shifted in one direction to close the valve, of a casing having one open side and a shiftable cover, said valve stem extending within said casing and being shiftable therein and a member connected with said cover to be shifted thereby and adapted to engage said valve stem to prevent movement thereof in either direction when the cover is closed.

1,400,616. ABDOMINAL RETRACTOR. HARVEY B. MCCROBY and WESLEY PEARSON, Saginaw, Mich. Filed Jan. 10, 1921. Serial No. 436,287. 6 Claims. (Cl. 128—20.)



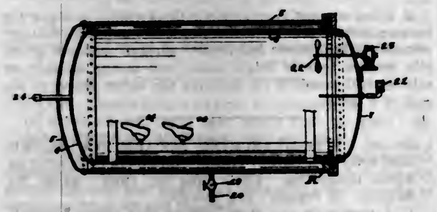
1. The combination of a generally elliptical frame provided with a series of holes, and a series of retracting hooks slidably mounted in said holes and comprising threaded stems and nuts thereon and retracting fingers at the inner ends of the stems.

1,400,617. FOLDING SQUARE. JOHN MCFADDEN, South Chicago, Ill. Filed May 25, 1920. Serial No. 384,066. 1 Claim. (Cl. 33—117.)



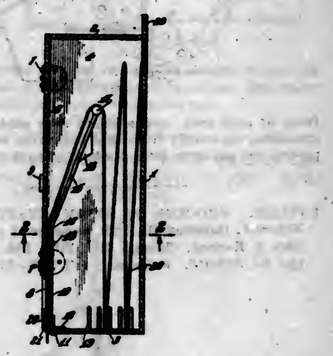
A folding square comprising a main member having a slot formed in one end portion, an auxiliary member having an extension at right angles thereto and arranged in said slot, said main member and extension provided with tapering holes adapted to be placed in alinement when the members are disposed at right angles to each other, a pivot pin connecting the main member and extension, a frusto-conical ferrule in said tapering holes and provided with a threaded bore, a cap screw threaded in said threaded bore to draw the ferrule in tight engagement with the holes, said main member recessed to receive the head of said ferrule.

1,400,618. METHOD OF VULCANIZING RUBBER. WILLIAM M. MACKINTOSH, Springfield township, Summit county, Ohio, assignor to The Kelly-Springfield Tire Company, Akron, Ohio, a Corporation of New Jersey. Filed Aug. 6, 1920. Serial No. 401,617. 4 Claims. (Cl. 18—53.)



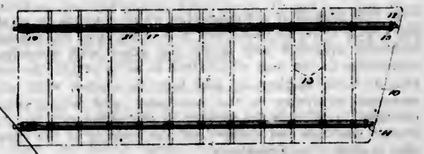
1. The process of vulcanizing articles composed wholly or in part of rubber which consists in confining the article within an inclosed space; heating air to a vulcanizing temperature; forcing the air so heated into said space under pressure; introducing a sufficient quantity of steam into said space to increase the heat conductive properties of said air; agitating the air so confined and maintaining the pressure and temperature thereof for a period of time sufficient to insure vulcanization.

1,400,619. DISPENSING DEVICE FOR SHEET MATERIAL. MOSES MITTELDORFER MARCUSE, New York, N. Y., assignor to West Disinfecting Company, New York, N. Y., a Corporation of New York. Filed Mar. 23, 1920. Serial No. 368,161. 10 Claims. (Cl. 211—31.)



1. A dispenser for a folded web of sheet material comprising a material supporting casing, a cover movable relatively thereto, and a table mounted independently of the cover and so coöperating with the wall of said cover to form a delivery chute between the cover and the table.

1,400,620. TRUSSED HOLLOW SPAR. JAMES VICTOR MAXWELL and JOSEPH PAUL SEISER, White Plains, N. Y.; said Seiser assignor to said Maxwell. Filed Jan. 14, 1921. Serial No. 437,233. 2 Claims. (Cl. 244—31.)

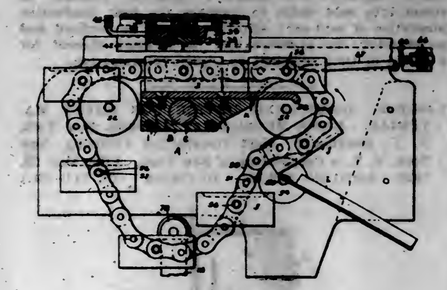


1. In an aeroplane wing structure, the combination with the cross ribs, of lengthwise spars and truss means for the spars including truss connections extending therealong and strut members engaging the truss connections and adjustable on the spars to positions adjacent to the several cross ribs as described.

1,400,621. MECHANISM FOR FORMING GLASSWARE. WILLIAM J. MILLER, Swissvale, Pa. Filed Dec. 16, 1918. Serial No. 266,910. 25 Claims. (Cl. 49—37.)

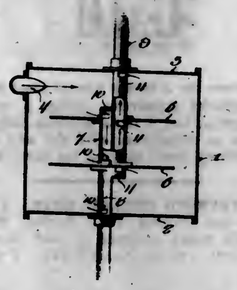
1. In a machine for manufacturing articles of glass, the combination of forming means, a carrier intermittently revolving in a vertical plane beneath said forming means, and a plurality of molds pivotally mounted on said carrier and adapted to be presented in turn to said forming means, the pivotal axes of said molds being above their centers of gravity whereby said molds normally retain their upright position.

24. The combination with a glass tank provided with a ring hole, of a glass forming machine supported at the



front of said tank, and a shield over said ring hole and extending forwardly from said tank over said machine to protect the gatherer from the heat of said ring hole.

1,400,622. PROCESS OF SEDIMENTATION. CARL H. NORDELL, Indianapolis, Ind., assignor of one-half to William J. Kenney, Chicago, Ill. Filed Feb. 16, 1920. Serial No. 359,012. 8 Claims. (Cl. 210—51.)



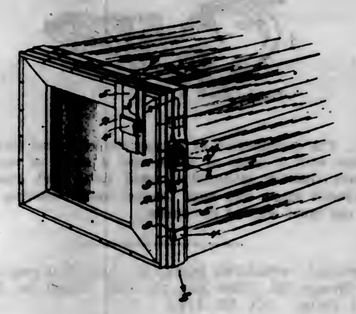
1. The method of sedimentation which consists in rotating a body of liquid in contact with a series of retardation members arranged one above the other and extending transverse to the axis of rotation so as to retard the motion of those portions of said body in contact with said members relatively to the remainder, and withdrawing clarified liquid from the vicinity of the under side of each of said members and sludge from the vicinity of the upper side of each of said members.

1,400,623. PROTECTING APPLIANCE FOR USE ON AUTOMOBILES. JOHN R. OSMER, Buffalo, N. Y. Filed Jan. 30, 1920. Serial No. 355,252. 6 Claims. (Cl. 180—90.)



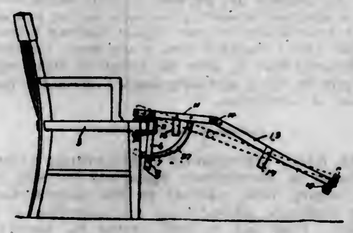
1. The combination with an automobile dash board, and a cowl fastened to the edge portion of the dash board, of a device for preventing the entrance of water through the joint between the dash board and the cowl, comprising a securing strip which conforms to the edge of the dash board and is secured thereon and overhangs the cowl, said strip having a longitudinal rib on its underside, and a yielding closure strip which is confined between said securing strip and the cowl and is pressed tightly against the surface of the cowl by said rib.

1,400,624. MEANS FOR METAL-STRAPPING AND SEALING CONTAINERS. IRVING B. PEARSON, New York, N. Y. Filed Mar. 30, 1921. Serial No. 457,130. 8 Claims. (Cl. 217—66.)



1. In a device for strapping and sealing containers, a pair of coupled alined overlying straps, the under strap being fastened to the wall of the container, and means for connecting and sealing the adjacent ends of the outermost strap.

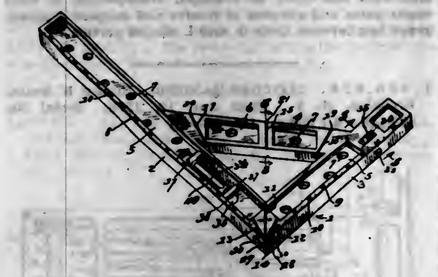
1,400,625. LEG-SUPPORT. EDWARD RAWLINSON, Vallejo, Calif. Filed Feb. 14, 1921. Serial No. 444,969. 4 Claims. (Cl. 155—169.)



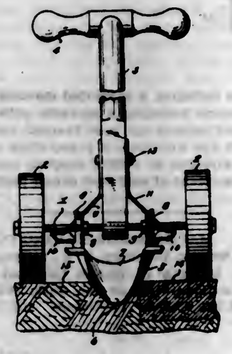
1. A leg support comprising a thigh frame, a lower leg frame pivotally connected thereto, a foot support pivotally secured to said lower leg frame, upright members pivotally secured to said thigh frame, and means slidable on said upright members for securing the entire device to the seat of a chair.

1,400,626. PIPE-MEASURING SQUARE FOR PLUMBERS AND STEAM-FITTERS. ALPHONSE C. RODRIGUEZ, Baton Rouge, La. Filed June 30, 1920. Serial No. 393,133. 11 Claims. (Cl. 33—89.)

1. A plumber's and steam fitter's pipe square comprising a body having arms extending at right angles to each other, one of the arms having a spirit level and the other arm provided with an adjusting device for adjusting the square, so that one arm may extend at an angle to a surface on which the corner of the square rests for leveling the first arm according to the bubble of the spirit level.



1,400,627. LAWN-EDGING MACHINE. CHARLES ROSEL, Newark, Ohio. Filed Sept. 27, 1920. Serial No. 413,134. 1 Claim. (Cl. 97—28.)

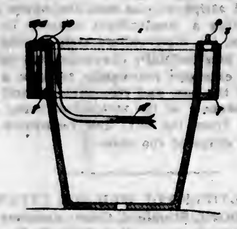


In a lawn edging tool, a wheeled axle, a handle projecting upwardly from said axle, a soil cutting scoop of sheet metal construction formed to include a substantially restricted forward portion and a relatively enlarged and laterally flaring rear portion, ears projecting upwardly from the edges of said scoop and apertured to receive said axle whereby said scoop will be pivotally carried by said axle in depending relation with respect thereto, and a fixed member extending upwardly from the rear portion of said scoop and having an adjustable connection with said handle, whereby the cutting positions of said scoop may be adjusted irrespective of movemet on the part of the handle.

1,400,628. SELF-IRRIGATING FLOWERPOT. ALFRED W. RUDOLPH, St. Louis, Mo. Filed June 12, 1920. Serial No. 388,576. 12 Claims. (Cl. 47—19.)

1. A flower pot comprising a water-holding chamber, an absorbent member extending from said chamber to the soil within the pot, and means for controlling the amount of water conveyed by said member.

10. An attachment for flower pots comprising a water-holding chamber formed in two or more sections, hooks secured to said sections for suspension thereof upon the rim of such pots, absorbent members disposed adjacent to the abutting ends of said sections and communicating with



the interior thereof adapted to equalize the amount of water therein, and a member adapted to convey the water from said chamber to the soil within the pot.

1,400,629. TROLLING-SPOON. EDGAR CHARLES SELLECK, San Francisco, Calif. Filed Feb. 19, 1920. Serial No. 359,792. 1 Claim. (Cl. 43—45.)



A trolling spoon, comprising a shank formed from a single piece of wire doubled upon itself to form a shank consisting of two members lying alongside each other, the ends of the wire being intermediate the end of one of the said members, said wire having at one end a loop and at the other an eye, and having adjacent to the eye an outwardly bent portion forming a loop, a spoon supported by said last named loop, a swivel supported by the eye, and hooks supported by the first named loop.

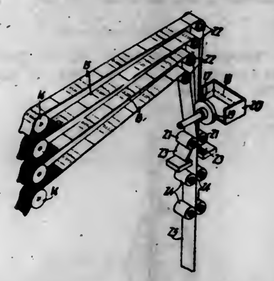
1,400,630. LICENSE-NUMBER CARRIER. KARL A. SMEBY and GAYLORD W. AKIN, Denver, Colo. Filed Sept. 29, 1919. Serial No. 327,130. 1 Claim. (Cl. 40—182.)



A license number carrier comprising a box having its front open and the marginal edge portions thereof formed with channels, one end of the box being open, and a cover plate having its longer side edges and one end edge

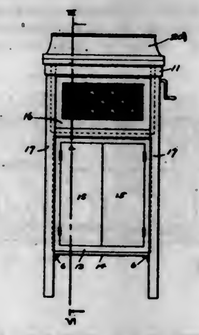
formed with flanges engaging in the channels, said cover including upper and lower and intermediate parallel longitudinally extending strips, a vertical strip connecting the longitudinal strips at one end, the upper and lower strips each having a longitudinal channel in its inner longitudinal face, the intermediate strip having its upper and lower faces longitudinally channeled, the said vertical end strip being extended rearwardly to form a cover for the open end of the box, and removable stencil plates engaged in the channels of the strips and being removable with the cover from the box, and removable from the channels of the strips of the cover.

1,400,631. MULTIPLE-PLY WEB FOR TYPEWRITERS. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed July 20, 1918. Serial No. 245,810. 5 Claims. (Cl. 283—62.)



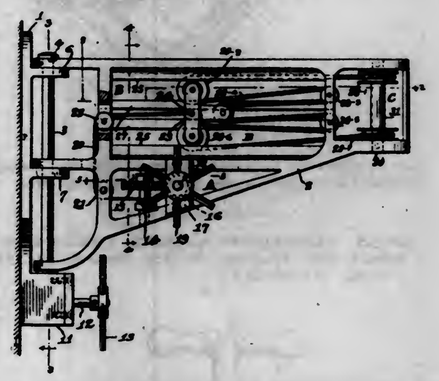
2. A new article of manufacture, consisting of a web having a succession of registering forms printed thereon and comprising plies whose edges are padded together to form a unitary composite web, said plies having differing characteristics, and said web forming a package having numerous layers in compact form for feeding into a typewriting machine, said plies being padded together by an adhesive material sufficiently elastic to permit the opening of the web from its compact condition and also to permit the web to pass readily around the rolls of the typewriting machine.

1,400,632. KNOCKDOWN CABINET FOR PHONOGRAPHS. CHARLES R. SOULE, San Francisco, Calif. Filed Apr. 20, 1920. Serial No. 375,254. 1 Claim. (Cl. 45—52.)



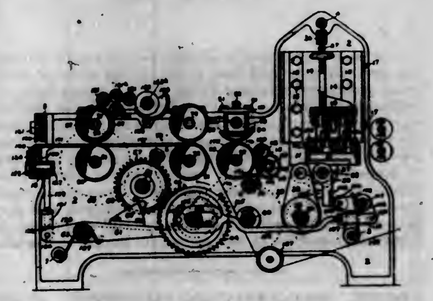
A knock down phonograph cabinet having legs adapted to be held in assembled relation at their bottoms by a bottom member, secured thereto, and at their tops by a cap member, adapted to rest upon said legs, and having depending battens adapted to engage the outer sides of said legs and prevent their spreading, means for spacing said legs, said legs being of L-shaped cross-section in their upper parts and adapted to receive and support a phonograph box between them in said L-shaped portion.

1,400,633. CLOTHES-HANGER. JOSEPH E. STAGL, Brooklyn, N. Y. Filed Apr. 12, 1920. Serial No. 373,446. 4 Claims. (Cl. 68—3.)



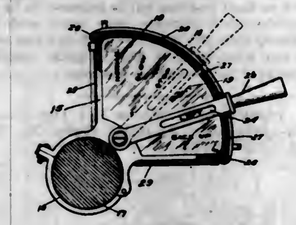
1. Apparatus including a supported movable bracket, an endless line, means including a movable pulley-block and fixedly arranged pulleys on said bracket for taking up and letting out the said line, a pulley-block on said line adapted to be attached to a fixed support, and means for effecting the movement of said first named pulley-block.

1,400,634. MACHINE FOR MAKING COIN-CARDS. HERBERT H. STEELE, Brooklyn, N. Y., assignor, by mesne assignments, to John H. Eggers Company, Inc., New York, N. Y., a Corporation of New York. Filed July 29, 1915. Serial No. 42,583. 11 Claims. (Cl. 93—1.)



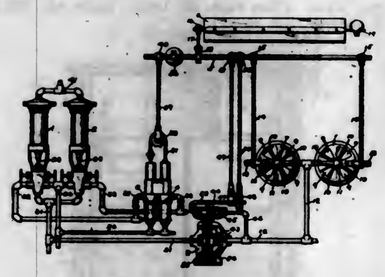
1. In a machine for making coin cards the combination with two side frames of the machine, a slide arranged for vertical movement between the frames and carrying a punch, a die bed fixed between the frames and provided with a die to coöperate with the punch, a pair of horizontally arranged paper feed rollers, adapted to feed two continuous webs of paper through the machine, a pair of glue-distributing rollers adapted to apply a coating of glue to the face of one web, cutting off elements adapted to sever both webs in uniform lengths, a main driving shaft operably connected to said slide and one of the cutting off elements and having a continuous rotary movement, and a mutilated gear transmission intermediate the said shaft and the paper feeding rollers adapted to arrest the motion of the two webs during the interval the punching and cutting off elements are active.

1,400,635. AUTOMOBILE TAIL-LAMP AND SIGNAL. CHARLES STERN and GEORGE F. EGAN, Jersey City, N. J. Filed May 7, 1918. Serial No. 233,091. 2 Claims. (Cl. 74—5.)



1. Operating mechanism for signals of the character described comprising an indicating member adapted to contain indicia showing the different conditions in the operaton of vehicles, an operating handle movable across said member to various positions with respect to the indicia, said operating handle provided with an overhanging portion extending about the edge of the indicating member, said edge of the member provided with a channel, and a cable lying in and guided by said channel and connected to the signal to be operated, said cable connected to the overhanging portion of the handle and shiftable back and forth thereby in its movement across said indicating member.

1,400,636. REGULATING APPARATUS FOR LIQUID-FUEL BURNERS. CARLTON D. STEWART, Berkeley, Calif., assignor to Associated Engineering and Supply Company, San Francisco, Calif., a Corporation of California. Filed Feb. 10, 1920. Serial No. 357,632. 7 Claims. (Cl. 158—45.5.)



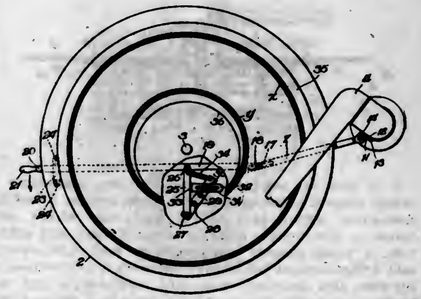
1. In a liquid fuel burning apparatus for a steam boiler, the combination with liquid fuel burners, of a pressure regulator for varying the pressure of liquid fuel supplied to the burners and a master controller governed by variations in steam boiler pressure for effecting the adjustment of said pressure regulator to thereby vary the pressure of liquid fuel supplied to the burners.

1,400,637. HAIR-WAVING PROCESS AND DEVICE. WILLIAM SELÁNYI, New York, N. Y., assignor of one-half to Carsten H. Kuehl, Hoboken, N. J. Filed June 2, 1920. Serial No. 385,981. 3 Claims. (Cl. 132—36.)



1. The process of waving hair, which comprises flattening out a hair strand within a flexible hair receiver, rolling up the flattened hair by starting at its free end and continuing in the lengthwise direction toward the head, thus forming a roll of flattened hair, covering the roll with a layer of evaporating media, surrounding the thus covered roll with a wetted cover, inclosing the roll within a receiver and heating the latter, thus creating vapor of the evaporative media and water vapor, and treating the hair roll to the desired degree.

1,400,638. AUTOMATIC PHONOGRAPH-STOP. CHARLES H. TAYLOR, Crosby, Minn. Filed May 17, 1920. Serial No. 381,847. 3 Claims. (Cl. 192—116.)

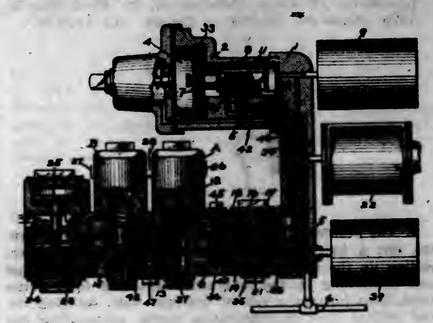


1. The combination with a sound reproducing machine including a turntable and a tone arm, the free end of the tone arm being arranged to be moved in one direction when the turntable is being rotated, of a lever fulcrumed on the casing of the sound reproducing machine, one end of the lever being arranged to extend beyond the outer edge of the turntable, means carried by said lever adjacent its outer end for frictionally engaging the turntable to prevent the rotation thereof, means for normally holding said first named means in engagement with the turntable, means operated by the movement of the tone arm in one direction for maintaining said first named means out of engagement with said turntable and operated by the movement of the tone arm in the direction opposite to that first mentioned for moving said first named means into engagement with said turntable, whereby the rotation of the latter is stopped, and means for effecting a reversal in the direction of movement of said tone arm.

1,400,639. ELECTROPNEUMATIC BRAKE. THOMAS H. THOMAS, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Jan. 14. 1921. Serial No. 437,130. 6 Claims. (Cl. 303—15.)

1. In an electro-pneumatic brake, the combination with a brake cylinder and auxiliary reservoir, of a piston de-

vice for controlling the exhaust from the brake cylinder and the supply of fluid from the auxiliary reservoir to the



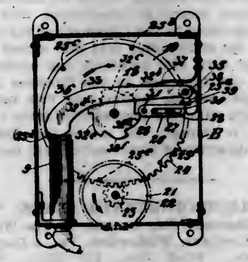
brake cylinder and a magnet operated valve for supplying fluid to said piston device for operating same.

1,400,640. BAG-LOCK. HUGO TUECKMANTEL and WILLIAM A. LOTZ, Newark, N. J., assignors to The R. Neumann Hardware Co., a Corporation of New Jersey. Filed Aug. 13, 1921. Serial No. 491,995. 8 Claims. (Cl. 70—2.)



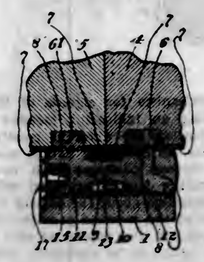
2. A lock for bag-frames, and the like, comprising a casing adapted to be secured to a frame-section, a locking mechanism within said casing, guide-rods within said casing, a carrier-plate movably mounted upon said guide-rods, a bridge-element mounted upon said carrier-plate, said bridge-element being provided with a perforation, a key-post also mounted upon said carrier-plate and extending upwardly from said plate into and through the perforation in said bridge-element, and a stiffening element between said carrier-plate and the said bridge-element.

1,400,641. FILM-SHIFT LOCK FOR CAMERAS. PIETRO F. VALERIO, New York, N. Y. Filed June 30, 1919. Serial No. 307,648. 3 Claims. (Cl. 95—31.)



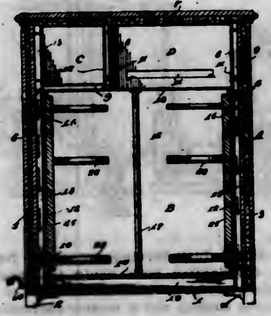
1. A film-camera comprising a film winding shaft; a lock-wheel geared to said shaft; said lock-wheel carrying locking detents angularly spaced to correspond to predetermined shifts of the film; a dead beat latch movable into and out of the path of said detents; a resiliently retracted catch operable to butt said latch out of the path of said detents and itself to replace said latch in said path of said detents; a cam operatively positioned to replace said latch in the path of said detents when said lock wheel shifts the angular space between adjacent detents; a shutter; manually operable shutter operating mechanism having a bias to normal position; and an operative connection between said shutter operating mechanism and said catch to move the same against its resilient retraction to release said latch upon the operation of said shutter operating mechanism and to permit the retraction of said catch upon the return to normal of said shutter operating mechanism whereby the film is normally locked in fixed position but is released to be shifted only a predetermined distance only after said shutter operating mechanism has been operated and has returned to normal and whereby said film is again locked after being shifted said predetermined distance.

1,400,642. BORING-BAR. JACOB VAN DER VORN, Chicago, Ill. Filed July 3, 1919. Serial No. 308,551. 3 Claims. (Cl. 77—58.)



1. A boring-bar, comprising a substantially cylindrical body having a transverse slot therein, a pair of diametrically opposed cutters mounted in said slot, an adjusting screw having reversely disposed threads arranged contiguous to said cutters, and threaded blocks removably inserted in said cutters with only their surface adjacent the screw protruding, and said surfaces being threaded to coöperate with the screw.

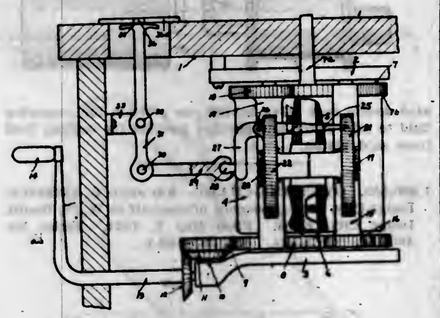
1,400,643. REFRIGERATOR. ELIAS VAN DYKE, Columbus, Ohio. Filed Sept. 13, 1919. Serial No. 323,462. 3 Claims. (Cl. 45—71.)



1. In a refrigerator, a cabinet including a base having upstanding insulated side walls, a shell having relatively

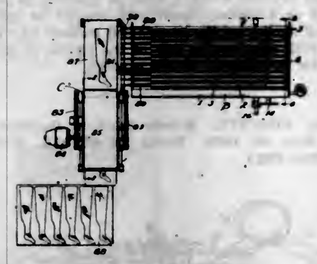
thin walls disposed within said cabinet and supported in spaced relationship from the walls thereof, whereby air circulating spaces will be produced around said shell, the said shell being further formed to include ice and food compartments, the said ice compartment being provided with apertured walls, whereby air circulation through and between said spaces and ice compartment will be provided, the said food compartment being entirely out of direct communication with said air circulating spaces, and a drain for said ice compartment.

1,400,644. INDICATING MECHANISM FOR SPRING-MOTORS. VINCENT V. VERSCHOTEN, Erie, Pa. Filed July 17, 1920. Serial No. 397,107. 6 Claims. (Cl. 116—124.)



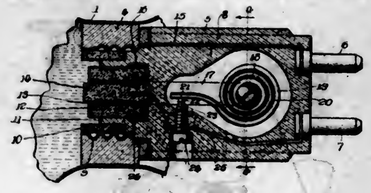
1. In an indicating mechanism for spring motors, the combination of a spring; a winding mechanism for winding said spring; a wheel connected with the winding mechanism; means driven by the spring; a wheel connected with the driven means; a lever mounted on one wheel; means on the other wheel acting on the lever with a movement of either wheel; and indicating devices actuated by the lever.

1,400,645. FEEDING MECHANISM FOR HOSIERY-PRESSES. CHARLES E. WARREAM, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Filed May 27, 1918. Serial No. 236,816. 10 Claims. (Cl. 68—9.)



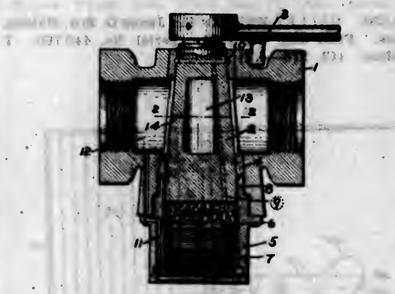
1. Apparatus of the class described, comprising a pressing machine, a feeding table, means for advancing stockings step by step along said table in the direction of its length, and means associated therewith for removing the stockings from the table and delivering them in a direction transverse to the length of said table to the pressing machine.

1,400,646. ELECTRIC STOPPER FOR FLUID-CONTAINERS. ERNEST CRESTON WEBSTER, Chicago, Ill. Filed Apr. 12, 1920. Serial No. 373,306. 9 Claims. (Cl. 219—40.)



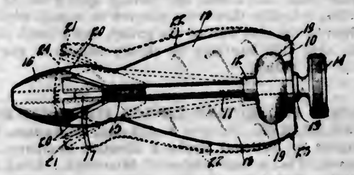
1. The combination with a container for liquid to be heated, of a stopper carrying at its inner end primarily insulated heating electrodes adapted to be connected by the liquid, a main circuit and a branch circuit both leading said electrodes, and means whereby heat exceeding a predetermined limit automatically interrupts one of the circuits.

1,400,647. LUBRICATING DEVICE. HENRY H. WESTINGHOUSE, New York, N. Y., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Sept. 20, 1919. Serial No. 325,132. 2 Claims. (Cl. 251—93.)



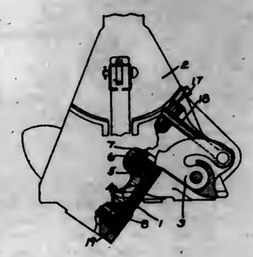
1. A plug cock comprising a body, a plug valve mounted in said body for controlling a fluid pressure conduit, a chamber at one end of the valve containing a lubricant, a movable member acting on said lubricant, and a passage for supplying fluid under pressure from the conduit to said member.

1,400,648. DILATOR. ROBERT H. WHITNEY, Jacksonville, Fla. Filed June 4, 1920. Serial No. 386,483. 7 Claims. (Cl. 128—341.)



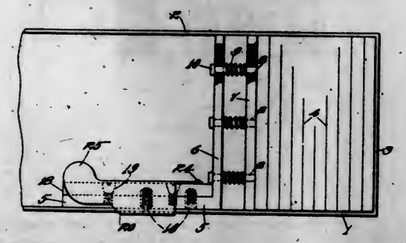
1. A dilator comprising a core, a plurality of segments pivoted on the core at one end, and forming a body of circular cross-section in closed position, and an expander having a tapered portion extending between the free ends of said segments, and another tapered portion forming the forward end of the dilator, substantially as set forth.

1,400,649. WEATHER-PROTECTOR FOR COUPLINGS. HARRY F. WOMRNLEY, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Dec. 6, 1918. Serial No. 265,574. 2 Claims. (Cl. 173—332.)



1. The combination with a coupler head having electric contacts and a projecting ledge and provided with a yielding pivoted lock for clamping counterpart coupler heads together, of a device for protecting the electric contacts from the weather and mounted in position between said ledge and said pivoted lock.

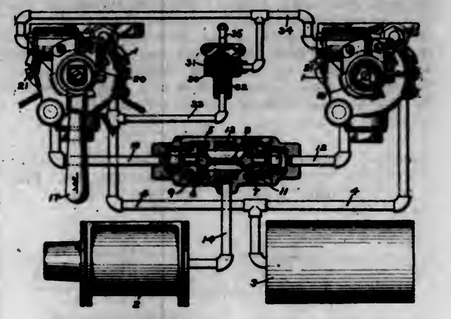
1,400,650. GALLEY END LOCK. JESSE G. ZIM, Malden, Mass. Filed Jan. 28, 1921. Serial No. 440,769. 7 Claims. (Cl. 276—43.)



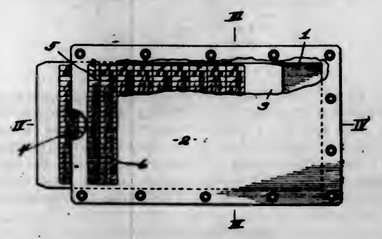
1. A galley end lock having a head which extends transversely of the galley, a type stop bar in front of said head and having loose connection with said head, whereby the stop bar is capable of a limited movement with relation to said head, springs between the said stop bar and head, whereby the stop bar is normally held spaced away from the said head, and a side bar having spring seated pins projecting laterally therefrom adapted to engage with perforations in the side wall of the galley, and a latch whereby the said side bar may be rigidly locked to the side wall of the galley.

1,400,651. PROTECTIVE DEVICE FOR FLUID-PRESSURE BRAKES. BURTON S. AIKMAN, Milwaukee, Wis., assignor to National Brake & Electric Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 8, 1921. Serial No. 450,554. 9 Claims. (Cl. 303—63.)

8. In a fluid pressure brake, the combination with a source of fluid under pressure and a brake valve device for applying and releasing the brakes, of a spring tending to shift the brake valve device to brake application position, a latch normally engaging the spring to prevent same from acting on the brake valve device, a piston operated upon a predetermined reduction in pressure of said source of pressure for releasing said latch, and a manually operated double beat valve having one position for supplying fluid to said piston and another position for venting fluid from said piston.



1,400,652. OVERTIME-CHART. RAYMOND T. ANDERSON, Dodge City, Kans., assignor of one-half to W. W. Smith, Dodge City, Kans. Filed May 2, 1921. Serial No. 466,114. 4 Claims. (Cl. 283—23.)



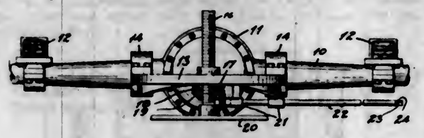
1. A chart comprising a member having a vertical column of figures beginning with ten and increasing by tens, and a second member adjustable laterally with respect to said column of figures; said second member having a horizontal row of figures running from 0 to 9 inclusive, and vertical underlying columns of figures representing hours and minutes which a train is expected to consume in travel at a certain speed with respect to the miles column of figures on the first-named member and the figures of such column plus any of the figures of the horizontal row on the said second member.

1,400,653. FORCEPS. ROBERT BARBOUR, Paterson, N. J. Filed Sept. 30, 1920. Serial No. 413,911. 5 Claims. (Cl. 128—322.)



1. A pair of gripping forceps having means supplemental to its gripping jaws to releasably clamp and thereby hold thereon a ligature.

1,400,654. AUTOMOBILE-JACK. SAMUEL M. BIRGER, Brooklyn, N. Y. Filed July 8, 1920. Serial No. 394,775. 5 Claims. (Cl. 254—86.)



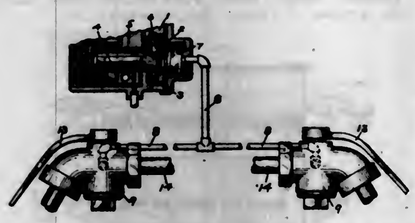
1. The combination with the axles of a vehicle, of lifting jacks permanently associated therewith, one of the jacks having a fixed relation with one of the axles and the jack having sliding relation with the other axle.

1,400,655. MITTEN. OTTO H. BOHNERT, Wauwatosa, Wis. Filed Jan. 21, 1918. Serial No. 212,871. 1 Claim. (Cl. 2—102.)



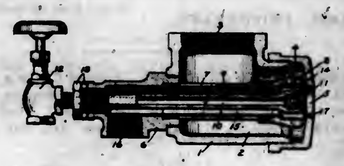
A mitten comprising a palm portion having a relatively short slit in line with the forefinger of the wearer, a back portion joined thereto along a gradually curving line, and an interior flap joined to the mitten along said gradually curving line and normally projecting from its attached curved edge between the slit and forefinger of the wearer toward the central portion of the mitten, whereby the curved attached end of the flap will automatically tend to keep said flap across said slit while allowing manipulation of its free end by the forefinger of the wearer.

1,400,656. LOAD-BRAKE DEVICE. GEORGE A. BOYDEN, Roland Park, Md., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Sept. 30, 1920. Serial No. 413,730. 5 Claims. (Cl. 303—23.)



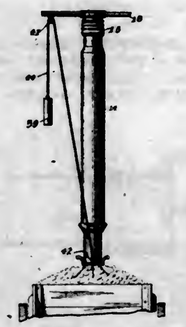
1. The combination with a valve device for adjusting empty and load brake apparatus for empty or load braking, of a brake pipe angle cock and means controlled by said angle cock for operating said valve device.

1,400,657. COMBINED OIL AND GAS BURNER. STUART B. BRODIE, Wilmerding, Pa. Filed June 6, 1918. Serial No. 238,571. 2 Claims. (Cl. 158—76.)



1. A gas burner comprising a body member having an air chamber, a cap member having a discharge outlet opening communicating with said chamber, and a gas nozzle mounted in said air chamber and having an annular gas outlet, the adjacent faces of the cap member and the gas nozzle being interconverging frustums of cones converging toward the longitudinal axis of the gas nozzle to form an annular air outlet, a sharp edge separating the annular air and gas outlets so that the air and gas outlets are in close proximity to each other and to the outlet opening in said cap member.

1,400,658. CONVEYER-CONDUIT. JOHN BROUGHTON BROWN, Wynne, Ark. Filed June 12, 1920. Serial No. 388,560. 5 Claims. (Cl. 193—40.)

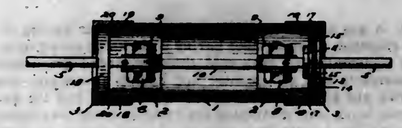


1. In a conveyer conduit of the character described, an outer section, an inner section telescopically arranged within the outer section and having its outer wall spaced from the inner wall of the outer section, a circular series of anti-friction elements carried by the inner section adjacent its inner end, each of said anti-friction elements including a cage secured to the outer wall of the inner section and a ball bearing retained in the cage and operatively engaging the inner surface of the outer section, a circular series of anti-friction elements carried by the outer section adjacent its outer end, each of said anti-friction elements including a cage secured to the inner wall of the outer section and a ball bearing retained in said cage and operatively engaging the outer wall of the inner section, a loose ring arranged between the inner section and the outer section adjacent the inner end of the inner section and supported upon the cages of the first-named series of anti-friction elements, and means for preventing egress of air between the sections consisting of a divided and inverted frusto-conical flange secured to the outer end of the outer section and having a portion

bearing against the outer wall of the inner section, and means for regulating the engagement of the flange with the outer wall of the inner section.

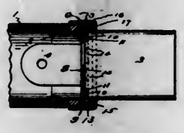
1,400,659. [WITHDRAWN.]

1,400,660. **RENEWABLE FUSE.** ROBERT C. COLE, Hartford, Conn., assignor to The Johns-Pratt Company, Hartford, Conn., a Corporation of Connecticut. Filed Sept. 3, 1919. Serial No. 321,241. 6 Claims. (Cl. 200—132.)



2. An inclosed fuse having an insulating casing, a metallic bushing screwed into one end of the casing, a conducting terminal plate with notched edges extending into said bushing, said notches in the terminal plate being outside of the end of the bushing, semi-circular cheek pieces fitting the notched portion of the terminal outside of and closing the outer end of said bushing, a washer movably fitted on the terminal outside of the cheek pieces, and a ferrule screwed on the bushing against said washer.

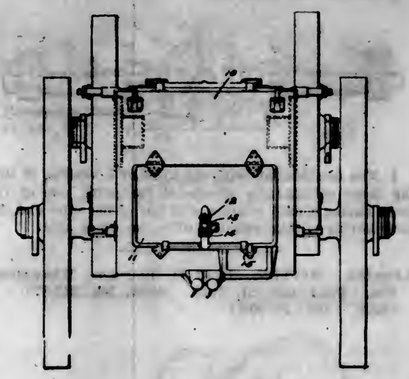
1,400,661. **INCLOSED FUSE.** ROBERT C. COLE, Hartford, Conn., assignor to The Johns-Pratt Company, Hartford, Conn., a Statute Corporation of Connecticut. Filed Apr. 2, 1920. Serial No. 370,637. 5 Claims. (Cl. 200—132.)



3. A fuse having an insulating casing, a metallic ferrule secured in one end of the casing, a cap screwed on the ferrule, a terminal extending through the ferrule and cap, a cap plate loosely fitting the terminal within the cap, a baffle plate secured tightly to the terminal within the end of the ferrule, and detachable semi-circular locking plates resting against the end of the ferrule between the cap plate and baffle plate, said locking plates closely fitting the terminal and loosely fitting the cap, and having grooves in the surfaces next to the cap plate.

1,400,662. **FASTENING DEVICE.** LOUIS B. CRAIG, Davenport, Iowa. Filed Nov. 3, 1920. Serial No. 421,606. 9 Claims. (Cl. 70—5.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

2. A fastening device including a bar adapted to be pivotally mounted, lugs formed on the bar and to overlie the edge of a door, a tongue extending laterally from the bar, said tongue having an eye, a turn button formed to pass through the eye when in one position, and having a wing fastened to overlie the tongue when the button is in any other position, and a resilient clasp pivotally secured to the tongue adapted to be folded down to embrace the button to hold the same with its wing in position overlying the tongue, the said clasp coöperating with the tongue to releasably retain the clasp in button embracing position.

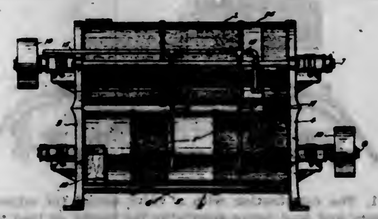


1,400,663. **TIE-HOLDER.** JAN CENOBY, Los Angeles, Calif. Filed Mar. 7, 1921. Serial No. 450,335. 10 Claims. (Cl. 2—84.)



1. A device of the class described combining a substantially T-shaped body with its shank formed to provide opposed cam projections yieldingly urged outwardly, a member hingedly connected to the shank and coöperating with the cam projections to yieldingly maintain said member in closed position toward the shank or in open position away from the shank, and means carried by said member and adapted to engage a collar button.

1,400,664. **GRAIN-WASHING MACHINE.** CHARLES DAWSON, Tacoma, Wash. Filed Oct. 18, 1920. Serial No. 417,766. 8 Claims. (Cl. 83—27.)



1. A grain washing and scouring device comprising, a cylinder having successively from its grain receiving end an imperforate peripheral belt, a perforate belt, a second imperforate belt and a wide perforate belt extending to the other end, deflectors mounted on the imperforate belts, means for advancing grain along the cylinder and means for delivering water into the cylinder through the imperforate belts.

1,400,665. **AUTOMOBILE WINDSHIELD-WIPER.** OSCAR A. DESICCO, San Francisco, Calif. Filed Apr. 25, 1921. Serial No. 464,192. 3 Claims. (Cl. 74—14.)



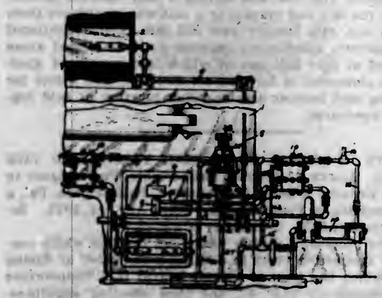
1. A device for wiping automobile windshields comprising a body member adapted to extend across the upper side of a windshield, a motor on the body, an endless belt on the body member, a slide member on the body adapted to support a wiping element, spring urged detents on said slide member, a member on the belt arranged to engage said detents so as to move said slide member, and means on the body to engage said detents and move the same out of engagement with said belt carried member.

1,400,666. **BUCKLE.** RAYMOND I. DOUGLAS, Attleboro, Mass. Filed Mar. 19, 1921. Serial No. 453,573. 5 Claims. (Cl. 40—142.)



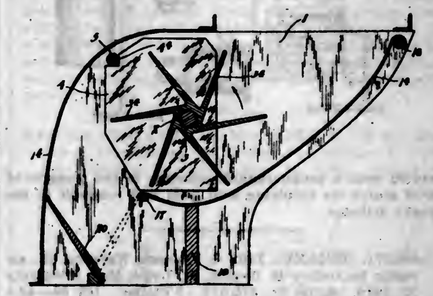
1. In a buckle, a front having an opening, grooved guides on the rear of the front above and below the opening, letters, or the like having reduced ends forming guide flanges engaged in the grooves of the guides, and a U-shaped locking member having abutments at its free ends adapted to snap over the ends of the guides and formed to engage in and between the guides and to the rear of the letters to hold the latter immovable and against the outer walls of the grooves.

1,400,667. **LIQUID-FUEL-CONTROL SYSTEM.** SIDNEY G. DOWN, Berkeley, Calif., assignor to Associated Engineering and Supply Company, San Francisco, Calif., a Corporation of California. Filed July 5, 1919. Serial No. 306,776. 3 Claims. (Cl. 236—8.)



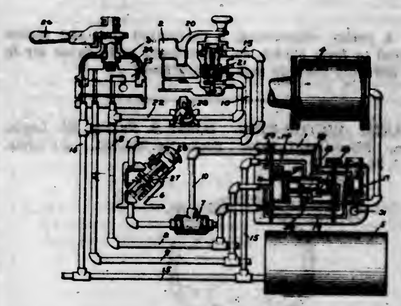
3. The combination with a steam boiler and furnace, of means for regulating the intensity of the fire in the furnace and the furnace draft, a piston normally subject on opposite sides to fluid pressure and operatively connected to said means, a valve for exhausting fluid under pressure from one side of said piston, and a thermostat, subject to the temperature of the steam in the boiler and operatively connected to said valve.

1,400,668. **FEEDING DEVICE.** EMIL R. DRAVER, Richmond, Ind. Filed Oct. 12, 1921. Serial No. 507,366. 6 Claims. (Cl. 83—44.)



1. A feeding device having in combination a casing, a shaft extending therethrough, a plurality of paddle wheels mounted in alinement on said shaft, and stationary plates supported on said shaft between adjacent wheels.

1,400,669. **SAFETY CAR-CONTROL DEVICE.** SAMUEL W. DUDLEY, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Feb. 5, 1919. Serial No. 275,231. 5 Claims. (Cl. 303—19.)

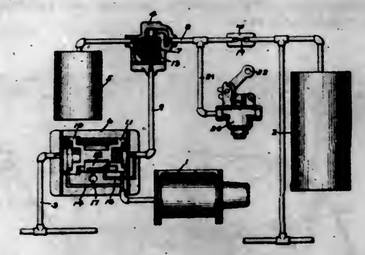


4. In a safety car control equipment, the combination with an emergency brake pipe, a straight air pipe, and a relay valve operated upon a reduction in pressure for venting fluid from the emergency brake pipe to effect an emergency application of the brakes, of a controller handle and a pilot valve operated upon release of the controller handle for venting fluid from said relay valve to the straight air pipe.

1,400,670. **FLUID-PRESSURE-BRAKE DEVICE.** SAMUEL W. DUDLEY, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed May 21, 1919. Serial No. 298,064. 4 Claims. (Cl. 303—68.)

1. In a direct acting brake system, the combination with a brake cylinder, a source of fluid under pressure, and a straight air pipe through which fluid is supplied to the

brake cylinder to effect an application of the brakes, of a reservoir normally charged from said source and means op-



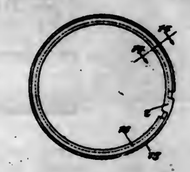
erated upon a predetermined reduction in the pressure of said source for supplying fluid from said reservoir to the brake cylinder.

1,400,671. PULLEY. JOHN G. FISCHER, Waterloo, Ill., assignor to Andrew B. Remick, St. Louis, Mo. Filed July 22, 1919. Serial No. 312,511. 8 Claims. (Cl. 64—48.)



1. A pulley, comprising, a perforated rim, and spokes adapted to form blades, so constructed as to cause air to flow inwardly through said perforations.

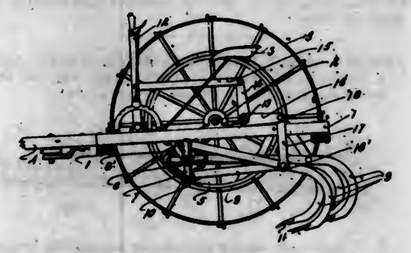
1,400,672. PISTON-RING. HARRY S. FRANK, St. Louis, Mo. Filed Dec. 7, 1918. Serial No. 265,721. 5 Claims. (Cl. 74—109.)



4. A piston ring comprising a spiral, having an inner convolution and an outer convolution united by an integral connection, the juxtaposed faces of said convolutions being beveled and in contact with each other throughout their lengths.

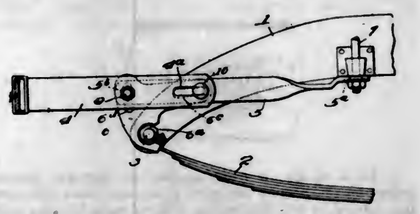
1,400,673. WEEDING IMPLEMENT. HERBERT L. GILLILAND, Harrington, Wash. Filed Jan. 15, 1921. Serial No. 437,559. 1 Claim. (Cl. 97—25.)

The combination in an implement as described comprising a frame and traction wheels each having an internal gear ring, of a crank shaft and pinions thereon engaging said gear rings, a series of bent hoe beams journaled to the crank shaft and each provided with a transversely extending chopping blade, a rock bar, an operating lever, an arm on the rock bar and a link connecting said arm and lever,



a series of rock arms on said bar corresponding with the hoe beams and a suspending link between each rock arm and its complementary hoe beam for the purpose described.

1,400,674. BUMPER. OSCAR H. GOBTS, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Oct. 15, 1921. Serial No. 507,926. 7 Claims. (Cl. 293—55.)

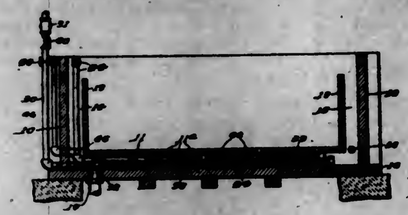


1. In an automobile having fore-and-aft extending side bars with shackle bolt connections to the vehicle supporting springs, in combination with such side bar, a bumper support comprising a bracket member adapted to be engaged with the shackle bolt; a link member having a hole for engagement with a remotely rearwardly situated bolt on the vehicle side bar and extending thence forwardly and lapping alongside the bracket member, said lapping members having at their lapped areas bolt apertures one of which is elongated in up-and-down direction; a bumper arm which extends rearwardly lapping the lapped area of said bracket and link and having a bolt hole for securement to the link and bracket by a bolt which connects them at their lap, said bumper arm and link having additional bolt apertures adapted to register at their lapped areas rearward of said bolt one of which last mentioned apertures is elongated in fore-and-aft direction, and a bolt for clamping said bumper arm and link together at said registered apertures.

1,400,675. PROCESS OF DYEING YARNS AND THE LIKE. JAMES A. GRUNDY, Philadelphia, Pa., assignor to John Bromley & Sons, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 11, 1921. Serial No. 491,343. 2 Claims. (Cl. 8—5.)

1. The process of dyeing yarns and the like which consists in supporting them in a suitable container of dyeing liquor which has been previously heated to a temperature of approximately 212° F., and then effecting simultaneously a uniform density of the dye liquor and a discharge of the same in the region of the suspended yarns, by utili-

sation of the expansive and propulsive forces of compressed air at a minimum pressure of approximately 20 lbs. to the



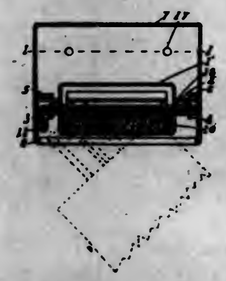
square inch above normal or atmospheric pressure, delivered within the body of dye liquor by means of suitably arranged piping.

1,400,676. BUSHING-REMOVER. PERRY G. GULLY, Rosalia, Wash. Filed Dec. 2, 1920. Serial No. 427,711. 3 Claims. (Cl. 29—33.2.)



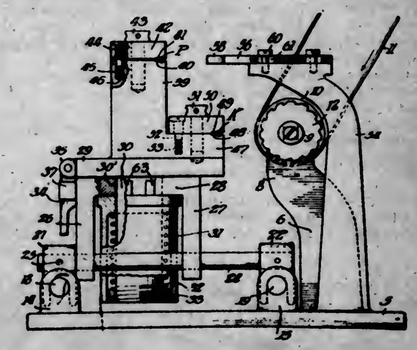
1. In a bushing remover the combination of a driving shank and a driven bar having complementary co-acting beveled friction faces and coacting shoulders on said shank and bar forming a continuous annular bearing for engagement with the edge of a bushing as described.

1,400,677. TOILET-PAPER AND PAPER-TOWEL DISPENSER. NEWTON S. HILLYARD, St. Joseph, Mo. Filed July 27, 1920. Serial No. 399,292. 1 Claim. (Cl. 211—31.)



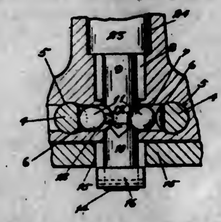
In a roll-paper dispenser, a bearing plate, a shaft, one end of said shaft being oscillatably mounted in a loose fitting aperture formed through said plate, a shaft stop formed of a portion of said shaft bent at practically a right angle thereto outside of said bearing plate with a return bent end formed on the free end of said shaft stop, another bearing plate provided with an aperture formed therethrough for the reception of the other end of said shaft said other bearing plate having an inclined slot formed therethrough the upper end of said slot terminating in said aperture and its lower end opening through the lower edge of said plate, a shaft retainer for retaining said other end of said shaft in its bearing aperture, a sleeve in which said retainer is slidably mounted for vertical movement, a slot closer formed on the lower end of said retainer for closing said inclined slot, an eye formed on the upper end of said shaft retainer whereby it is lifted for releasing the adjacent end of said shaft, and a paper holder secured on said shaft, said paper holder being adapted to have a roll of paper tightly fitted thereon, the whole forming ready means for detaching and lowering one end of said shaft and the thereon secured paper holder and whereby said shaft can easily and quickly be returned to normal position.

1,400,678. KEY-CUTTING MACHINE. ROLFE RAY HOLBROOK, New Orleans, La., assignor to William A. Lurie, New Orleans, La. Filed Nov. 15, 1920. Serial No. 424,014. 9 Claims. (Cl. 90—13.2.)



1. In a machine of the class described, the combination of a rotatable cutter, a key supporting structure, and means for clamping a blank on said structure, said structure being rotatable whereby to adjust said blank at a desired angle with reference to the cutter, said structure being shiftable to carry the blank into engagement with said cutter.

1,400,679. ROTATABLE LOCK AND INTERLOCK. GEORGE C. JENSEN, Oakland, Calif. Filed Aug. 20, 1918. Serial No. 250,656. 7 Claims. (Cl. 70—126.)



4. In combination, a pair of sliding gear-shifting rods having apertures at their adjacent sides opposite each other in neutral position, and a transversely disposed rotatable bolt, locking means interposed between the bolt and rods adapted in one position of the bolt to engage in the recesses of the rods to lock the same, and adapted in another position of the bolt to lock one only of said rods.

1,400,680. CURTAIN-WINDOW FOR VEHICLES. WILLIAM R. JOHNSTON, Chicago, Ill., assignor to Wm. R. Johnston Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 28, 1921. Serial No. 448,727. 6 Claims. (Cl. 296—145.)



1. In a curtain-window, the combination of a frame, having an opening therein and provided with a rabbet in its inner periphery, inner and outer curtain-members between which the frame is disposed, each having an opening therein and the margin of its opening lapped over and secured to one of the faces of the rabbet, a transparent plate in said opening with its margin in said rabbet and lapping the inner portion of the frame, and a welt secured in the rabbet, the margin of the plate being disposed and secured between the welt and an integral portion of the frame.

1,400,681. TROLLEY-WHEEL. HERMAN M. KAUL, Cedarburg, Wis. Filed Jan. 12, 1921. Serial No. 436,828. 1 Claim. (Cl. 191—75.)



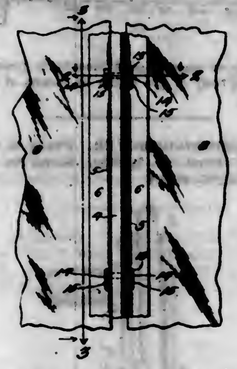
A trolley wheel having a running groove, spiral return grooves leading to the running groove, each spiral groove terminating in a circular groove, and conical extensions having their smaller ends communicating with said circular grooves.

1,400,682. CONCRETE-WALL MOLD. RICHARD C. KROGAN, South Bend, Ind. Filed Nov. 29, 1920. Serial No. 427,131. 3 Claims. (Cl. 25—131.)



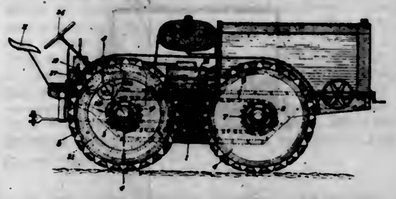
1. A sectional wall forming mold comprising a pair of spaced mold sections, said mold sections having their inner faces provided with inwardly projecting window opening forming members adapted to engage opposite faces of a window frame, one end of each mold section being provided with vertically disposed column forming recesses and a substantially centrally disposed vertical removable strip interposed between the ends of the mold sections adjacent the column forming recesses and forming means for forming a vertically disposed recess in the end face of a column.

1,400,683. WINDOW-SASH. RICHARD C. KROGAN, South Bend, Ind. Filed Apr. 18, 1921. Serial No. 462,314. 5 Claims. (Cl. 189—78.)



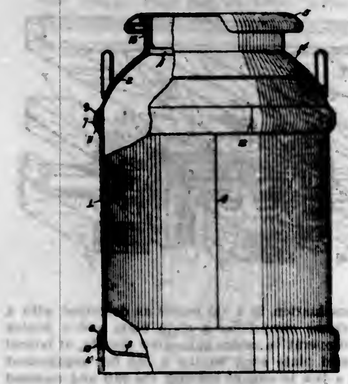
1. A window pane holding device comprising a member T-shaped in cross section, a U-shaped channel disposed on one of the flanges of said T-shaped member, outwardly extending flanges carried by the flanges of the U-shaped channel and disposed adjacent the flanges of the T-shaped member, said flanges of the U-shaped channel and the T-shaped member being adapted to receive therebetween adjacent edges of window panes, U-shaped clamping members having their transverse portions disposed in apertures of the T-shaped member and channel member, the arms of said U-shaped clamping members terminating in curved flexible members, said curved flexible members being adapted to be forced into engagement with the outwardly extending flanges of the channel member, thereby forcing said channel member inwardly.

1,400,684. TRACTOR. JOHN MINOR KROYER, Stockton, Calif. Filed Oct. 21, 1918. Serial No. 253,971. 5 Claims. (Cl. 180—17.)



1. In a tractor, a propeller shaft, a pair of clutches thereon, the female members of the clutches being each connected in driving relation with a wheel on each side of the tractor, and the male members being both mounted in constant driving relation on the propeller shaft and arranged to normally engage the female clutch members, a common yoke between the male members of the clutches and bearing thereagainst, and a common means for moving said yoke in either direction to disengage the corresponding clutch.

1,400,685. CONTAINER. AUGUST M. KRUSE, Defiance, Ohio. Filed June 4, 1921. Serial No. 474,883. 3 Claims. (Cl. 220—66.)



2. A container of the class described having a cylindrical body member, a top member and a bottom member, each having an annularly offset inner edge portion for telescopically receiving the respective edge of the body member with the inner surfaces of the top and bottom members flush with the inner surface of the body member, the joints between the members being integral as by welding, a reinforcing band closely embracing the offset portion of the top member and having an internal recess receiving the same, and a bottom band closely embracing the offset portion of the bottom member and having an internal recess receiving the same, said bottom band extending below the bottom member to form a base support for the container.

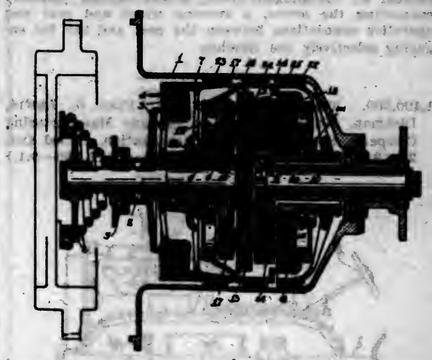
1,400,686. TERMINAL CONNECTION FOR ELECTRICAL HEATING UNITS. FRANK KUHN, JAY A. HAND, and JULES G. SPIEMS, Detroit, Mich., assignors to American Electrical Heater Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 14, 1918. Serial No. 262,441. 1 Claim. (Cl. 219—19.)



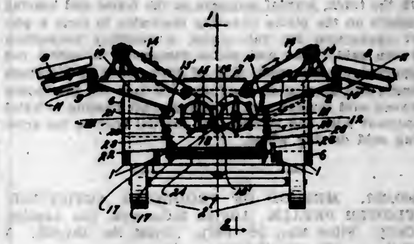
In an electrical heating unit the combination with an insulator, a resistor mounted thereon having a terminal portion extending therefrom, and clamping means for the outer end of said terminal portion, of a reinforcement formed of a strip mechanically connected to said insulator and clamping means, said strip being wrapped about said terminal portion.

1,400,687. TRANSMISSION MECHANISM. CRAUS B. KURTZ, Lakewood, Ohio. Filed Apr. 29, 1918. Serial No. 231,290. 6 Claims. (Cl. 74—34.)

1. In transmission mechanism, the combination of an epicyclic gear train comprising co-axial driving and driven gears, mounted adjacent to each other, a thrust bearing mounted between said gears, a planet shaft mounted to revolve concentrically about the common axis of said gears, gears on said planet shaft in mesh with said driving and driven gears, all of said gears having helical teeth arranged to produce inward axial balancing thrusts through said driving and driven years against said thrust bearing.

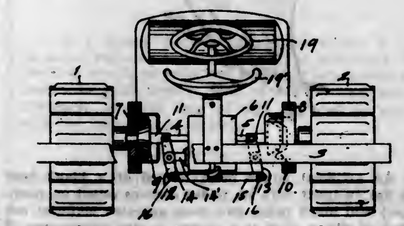


1,400,688. FEEDER FOR GRAIN-SEPARATORS. WILLIAM CLYDE LEONARD, Lewiston, Idaho, assignor to The Leonard Roller Gear Drive Thresher Company, Lewiston, Idaho. Filed Jan. 18, 1921. Serial No. 438,128. 2 Claims. (Cl. 130—1.)



1. The combination in a feed mechanism with a pair of depressible, resiliently supported chutes, of a pair of distributing cylinders, a fixed board beneath each chute and a flexible wall connecting each wall with a respective chute, and a conveyer below the cylinders and supported from said boards.

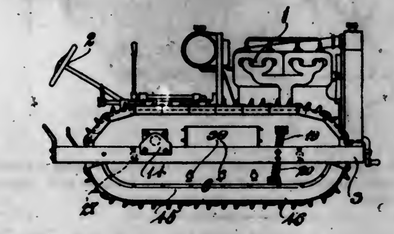
1,400,689. STEERING MECHANISM. FRED G. LEWIS, Spokane, Wash., assignor to Rhodes Harvester Company, Spokane, Wash. Filed June 23, 1919. Serial No. 306,047. 2 Claims. (Cl. 180—9.2.)



1. The combination with the sectional driving shaft, the driving traction members operated thereby and the

fixed clutch cups thereon, of slidable, non-rotatable cones on the shafts to co-act with the cups, clutch levers pivoted on the slidable cones, a steering bar pivotally connecting the levers, a steering wheel and post and operative connections between the post and bar for engaging selectively the clutches.

1,400,690. TRACTION-MACHINE. FRED G. LEWIS, Dishman, Wash., assignor to Spokane Manufacturing Company, Spokane, Wash., a Corporation. Filed Oct. 24, 1919. Serial No. 333,051. 5 Claims. (Cl. 180—9.1.)



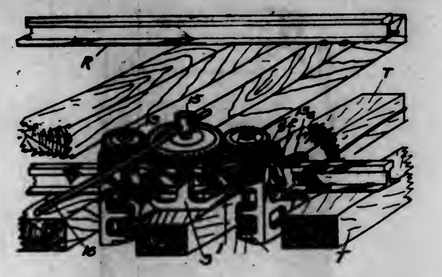
1. The combination with a main frame and supporting plates, of a driving wheel and an idler and a portable track thereon, traction wheels on said plates contacting with the track, journal members on the frame and bearing members on the plates co-acting therewith to form a pivotal connection for the plates, a resilient connection between said frame and plates comprising a spring rod supported at the outer side of each plate and springs thereon and an arm on the frame for each rod interposed between said springs, and a driving shaft passing in axial alinement with and through one journal bearing for actuating said driving wheel.

1,400,691. METHOD OF PRODUCING ARTIFICIAL-FLOWER PETALS. LOUISE MALSTROM, Los Angeles, Calif. Filed Mar. 22, 1921. Serial No. 454,331. 5 Claims. (Cl. 41—13.)



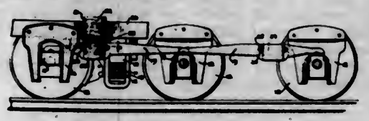
5. An artificial flower petal formed of a blank bent back flat on itself with its folded corners rolled on themselves; said blank being free from adhesive material but formed of ribbon sized to a degree to give permanence of roll to the rolled corners without the necessity of providing securing stitches in said roll.

1,400,692. TIE-PULLER. PETER MILLER, Springdale, Wash. Filed May 12, 1921. Serial No. 468,804. 3 Claims. (Cl. 254—43.)



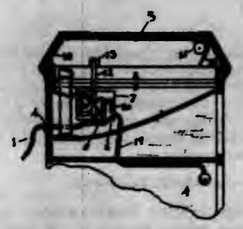
1. The combination in a tie puller as described with a supporting frame comprising a main plate and a duplex capstan with operative cables supported therein, of lateral flanges on said plate each having a lug for engagement with a rail, a jaw to engage beneath the rail and recessed and notched as described, and a hooked detent pivoted on each flange to engage the rail head.

1,400,693. EQUALIZER FOR CAR-TRUCKS. PETER PARKE, Chicago, Ill., assignor to The Pullman Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 31, 1920. Serial No. 370,283. 5 Claims. (Cl. 105—196.)



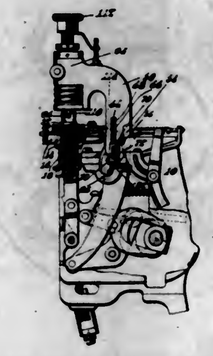
1. The combination with a truck frame, journal boxes, and wheels, of an equalizer bar spanning the space between adjacent boxes, and a spring disposed between the frame and bar, the lower bearing seat of the spring upon the bar being removable in a direction not necessitating any approach of said seat toward the frame whereby to facilitate the insertion and removal of the spring without additionally stressing the same.

1,400,694. PHONOGRAPH LIGHTING SYSTEM. ROSS M. G. PHILLIPS, New Haven, Conn., assignor to Perlie P. Fallon, New York, N. Y. Filed Nov. 2, 1920. Serial No. 421,260. 13 Claims. (Cl. 240—2.)



1. In a phonograph lighting system, circuit wires, a lamp, a second lamp, electric circuits for said lamps, means to open and close the circuit of the first named lamp and to open the circuit of the second named lamp, actuated by a lid operated lever and the circuit of the second lamp closed solely by manually rocking said lever.

1,400,695. HEEL-BUILDING MACHINE. JOSEPH H. POPE, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 16, 1918. Serial No. 235,000. 20 Claims. (Cl. 1—33.)



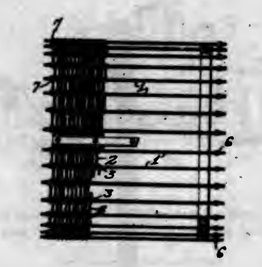
1. In a heel building machine, the combination of a contractile heel form, mechanism for applying pressure to the heel in a direction normal to the planes of the lifts, automatic means for contracting the form upon the lateral surface of the heel to aline the lifts, and interdependent nailing mechanism and means for uninterruptedly maintaining the form in expanded condition until the operation of the pressure applying mechanism is started.

1,400,696. TOY. ALFRED B. ROSEBOOM, Chicago, Ill. Filed Dec. 29, 1920. Serial No. 433,799. 3 Claims. (Cl. 46—40.)



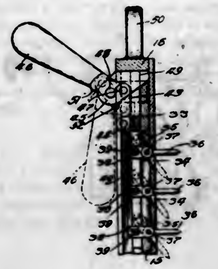
1. In the combination of a toy, a base, a standard, a figure designed to represent an aerial performer, slidably mounted on said standard, a second figure likewise designed to represent an aerial performer pivotally mounted on said standard near the upper end, means for shooting said first figure upwardly into contact with the pivotally mounted figure and means on said second figure designed to automatically grasp said second figure and hold it in raised position until released.

1,400,697. SCREEN FOR SAND, GRAVEL, &c. GEORGE A. SEIVOUR, Detroit, Mich. Filed June 9, 1917. Serial No. 173,844. 2 Claims. (Cl. 83—56.)



1. A screen consisting of a series of wire strands each having substantially equi-distantly spaced loops formed sequentially on opposite sides, a series of rods passing through the loop portions, the strands being positioned so that the loops on any single rod are formed on the same side of each strand, means individual to each rod for forcing the loops into engagement thereon, a form consisting of circular members on which the screen fabric rests, and means for fastening the ends of the strands together.

1,400,698. HOLDER FOR SLICING-MACHINES. EDWARD M. STILES, Mount Pleasant, Iowa, assignor to U. S. Slicing Machine Company, La Porte, Ind., a Corporation of Indiana. Filed July 2, 1918. Serial No. 243,022. 11 Claims. (Cl. 17—14.)

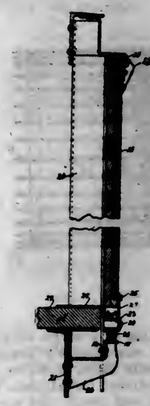


1. In a slicing machine, a support having a surface on which material to be sliced may be positioned so that one face of said material will extend at substantially right angles to said support, and means for engaging said angularly arranged face of said material to hold said material against said surface.

1,400,699. ROLLER-DOOR TRACK. ELLIS W. TEST, Michigan City, Ind. Filed June 20, 1919. Serial No. 305,496. 2 Claims. (Cl. 20—23.)

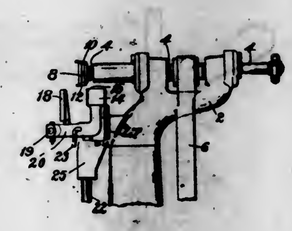
1. As an article of manufacture, a roller door track comprising a vertical attaching member, a generally horizontal roller guide bearing member and an outer depending

lip, a roller guide on said horizontal member, said guide being nearer the attaching member on the portion adapted



to be engaged by the door when closed than on the portion adapted to be engaged by the door when open.

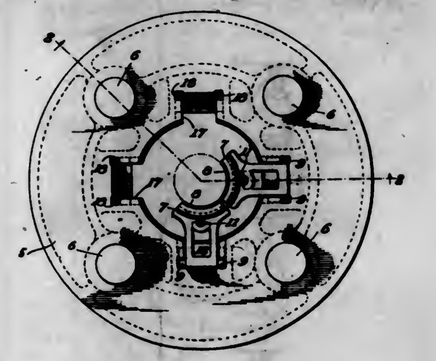
1,400,700. HEEL-BREASTING MACHINE. GEORGE S. TOLMAN, Jr., Walpole, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 26, 1920. Serial No. 368,893. 13 Claims. (Cl. 12—47.)



1. In a machine for breasting Louis heels, the combination of a rotary cutter having a plurality of cutter blades, and means for supporting a shoe with its longitudinal median plane parallel to the axis of the cutter, said cutter having its cutting faces constructed and arranged at an obtuse angle to the breast face of the heel to cause the cutter to act upon said face with a clearing cut.

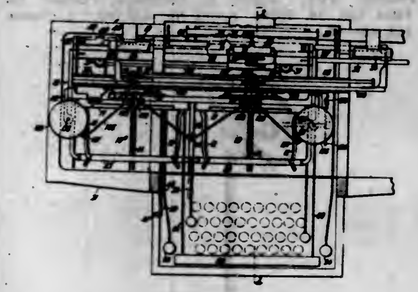
1,400,701. AUTOMATIC SLIP FOR WELL-BORING APPARATUS. WALTER G. VREELAND, Chattanooga, Tenn., assignor to Lucey Manufacturing Corporation, Chattanooga, Tenn., a Corporation of Tennessee. Filed July 30, 1917. Serial No. 183,532. 3 Claims. (Cl. 255—23.)

1. The combination with a rotary table, of a bushing carried by the table, slips slidably secured in the bushing and projecting into the bore thereof, and stops for limiting the downward movement of the slips in the



bushing, said stops being formed from said bushing in the form of prongs projecting inwardly and upwardly into the bore of the bushing.

1,400,702. TYPEWRITING-MACHINE. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Original application filed Mar. 20, 1918, Serial No. 223,488. Divided and this application filed Dec. 13, 1919. Serial No. 344,686. 12 Claims. (Cl. 197—151.)



1. In a typewriting machine, the combination of two ribbon vibrators, arranged side by side transversely of the machine, each having an actuating lever, an actuating element, adapted to coöperate with either of said levers, and means for moving said levers and said ribbon vibrators sidewise to connect said levers one at a time with said actuating element and to concomitantly bring the ribbon vibrators to the printing point.

1,400,703. MACHINE FOR USE IN LASTING BOOTS AND SHOES. FRANK W. WARD, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 19, 1919. Serial No. 277,069. 32 Claims. (Cl. 12—2.)

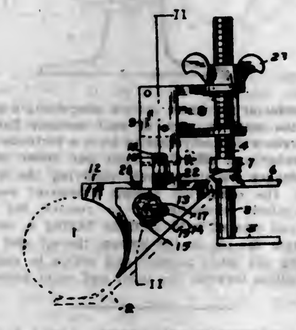
1. In a machine of the class described, fastening inserting means, a freely tiltable work support movable

toward and from the inserting means to present work thereto, and means movable relatively to said support



for clenching fastenings driven through work on said support.

1,400,704. ATTACHMENT FOR PRINTING-PRESSES. CLYDE L. WELSH, Pittsburgh, Pa. Filed Oct. 30, 1920. Serial No. 420,849. 3 Claims. (Cl. 101—210.)



1. An attachment for the purpose set forth comprising a pair of confining blocks, one being adjustable against and supported from the other, an adjustable bracket provided with a depending bar arranged above said blocks, and a pivoted member carried by said bar and adapted to engage the blocks whereby the adjustable block will be shifted.

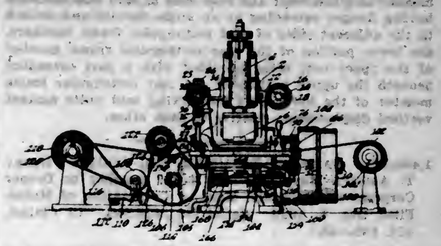
1,400,705. [WITHDRAWN.]

1,400,706. [WITHDRAWN.]

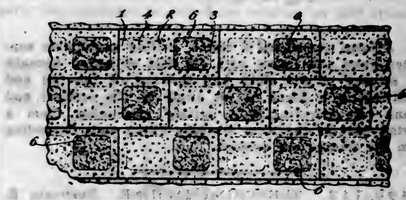
1,400,707. [WITHDRAWN.]

1,400,708. MARKING-MACHINE. HENRY W. WINTER, Methuen, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 2, 1915. Serial No. 18,768. 14 Claims. (Cl. 41—7.)

1. A marking machine, having, in combination, a drive shaft, a work table and die arranged for relative movement under the actuation of the shaft, means for feeding a strip of stamping medium between the table and die for engagement with the die, said feeding means including an intimity inoperative connecting shaft constructed and arranged to be moved automatically to associate the feeding means and the drive shaft operatively when the machine is set in operation, and gearing between the connecting shaft and the drive shaft and feeding means.

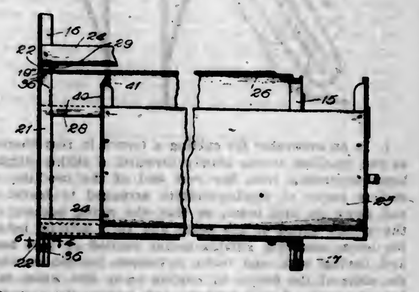


1,400,709. BUILDING-BLOCK. CHARLES C. WORTHINGTON, Dunnfield, N. J. Filed Feb. 6, 1918. Serial No. 215,721. 3 Claims. (Cl. 72—87.)



1. As a new article of manufacture, a building block comprising a rectangular body of stonelike material cast with horizontal rectangular cavities formed by a plurality of vertical cross walls, which are disposed perpendicular to the face of the block and also by vertical longitudinal back walls forming the backs of the cavities, one of said vertical walls being a partition wall between adjacent cavities, each of said walls being of uniform thickness and a fictile nailing material cast in position in each of said cavities to be exposed on the surface of the wall constructed of such blocks, substantially as and for the purposes set forth.

1,400,710. UNIT METAL TRANSFER-CABINET. PHILIP H. YAWMAN, Rochester, N. Y., assignor to Yawman & Erbe Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed June 12, 1918. Serial No. 239,541. 5 Claims. (Cl. 45—2.)



2. A cabinet comprising a pair of units stacked in vertical alinement, said units each comprising front and

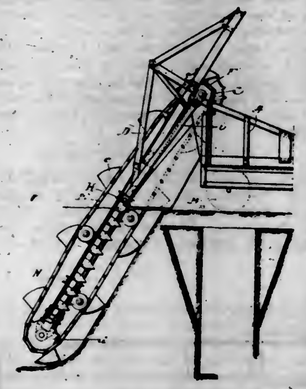
rear rectangular frame members, a top member provided with depending side members, the rear end of said top member and the front and rear ends of said side members having flanges extending at an angle thereto and welded to the adjacent sides of said rectangular frame members, the lower portion of the rear rectangular frame member of the upper unit being provided with a part extending beneath the upper portion of the rear rectangular frame member of the lower unit for locking said units against vertical displacement relative to each other.

1,400,711. SALVAGE-TRIMMER FOR LOOMS. HARRY T. ABBOTT, Mays Landing, N. J., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Dec. 7, 1920. Serial No. 428,846. 13 Claims. (Cl. 139—36.)



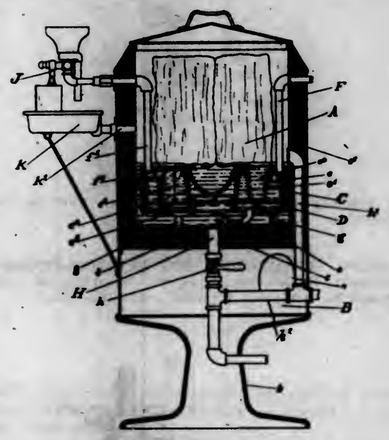
1. A loom comprising a frame, cutting mechanism supported from the frame with its field of action beneath the selvage of the cloth and forward of the fell and operating in a plane at an angle to the vertical and means for operating said cutting mechanism from a moving part of the loom whereby filling ends depending from the selvage are severed.

1,400,712. TRENCHING-MACHINE. FREDERIC E. BAGBY, Kenosha, Wis., assignor to Frederick C. Austin, Chicago, Ill. Filed Apr. 23, 1917. Serial No. 163,822. 4 Claims. (Cl. 37—24.)



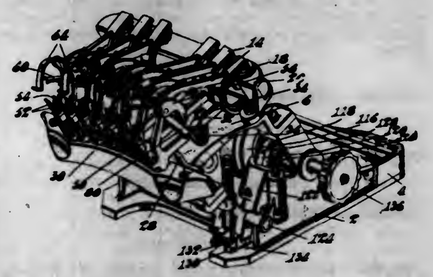
1. In an excavator for cutting a trench in rear thereof, as the machine moves slowly forward, a tilting digging beam depending from the rear end of the machine, an endless series of digging-buckets arranged to travel up and down on said beam, so that the rising buckets cut the trench ahead of the beam and then descend behind the beam, auxiliary cutting means carried on said beam and having back and forth movement thereon to slope the sides of the trench by cutting away dirt which falls into the path of said buckets, and devices for operating said auxiliary cutting means as a unit on said beam.

1,400,713. WATER-COOLER. WILLIAM B. BARLEY and JAMES C. CORBETT, Rochester, N. Y., assignors to Fearless Dishwasher Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Jan. 31, 1920. Serial No. 355,360. 6 Claims. (Cl. 62—43.)



1. A conductor for water coolers comprising a plurality of separable sections, each of said sections having recesses therein which coöperate to form a tortuous passage for the water and affording outer and inner communicating passages for successively receiving the water to be cooled, the conductor having a central recess extending entirely therethrough to receive the cooling medium, and one of said sections having a recess extending from the top to the bottom thereof and entirely surrounding the inner passage and acting to receive the cooling medium between the inner and outer passages.

1,400,714. BUTTONING-MACHINE. LEWIS J. BARRONI, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 15, 1918. Serial No. 240,208. 101 Claims. (Cl. 12—1.)

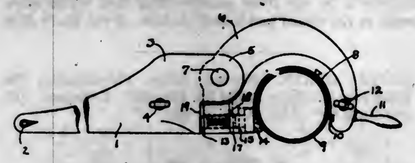


1. A buttoning machine having, in combination, means for relatively positioning a button and a buttonhole fly with the button in edgewise relation to a buttonhole in said fly when the work is initially presented to the machine, and means for engaging the buttonhole fly and forcing it over the head of the button.

17. In a buttoning machine, the combination with means for positioning a button, of buttonhole fly engaging members constructed and arranged to engage the material of the buttonhole fly substantially at the opposite ends of the buttonhole and to force the material over the head of the button, one of said members being constructed for yieldable sliding engagement with the work to resist the tendency of the other member to displace the work.

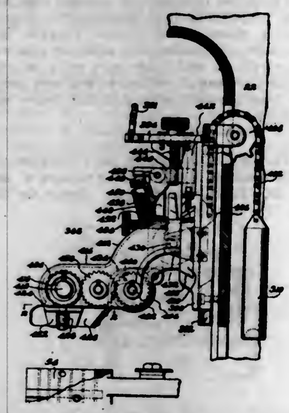
58. In a buttoning machine, the combination with button positioning means provided with a slot to receive the shank of a button, of means for guiding the button into said slot, said button positioning means and button guiding means being relatively movable lengthwise of said slot to cause the guiding means to be disposed in inoperative relation to the button positioning means.

1,400,715. BREAKOUT-TONGS. MARK BELCHER, West Columbia, Tex., assignor to Hughes Tool Company, Houston, Tex., a Corporation of Texas. Filed July 29, 1921. Serial No. 488,376. 6 Claims. (Cl. 81—91.)



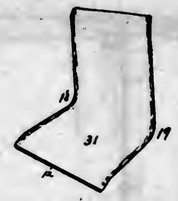
1. In a pipe wrench, a handle, a head thereon, an arcuate jaw pivoted at one side of said head, the other side of said head having a shoulder, a second jaw slidable in the rear end of said arcuate jaw and bearing against said shoulder, and means to hold said slidable jaw in inoperative position, said slidable jaw being so arranged that the contact of said shoulder therewith will force it forwardly toward the work.

1,400,716. WORK-POSITIONING DEVICE. JOHN M. BENJAMIN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 2, 1918. Serial No. 237,918. 31 Claims. (Cl. 1—32.)



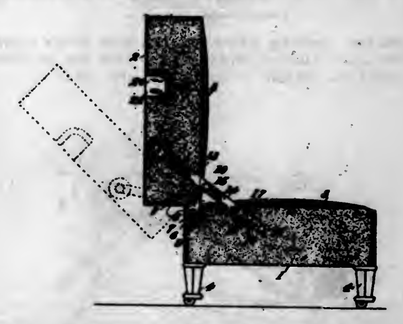
1. In a heeling machine, a work-positioning member having relatively movable arms and being itself movable from a work receiving position to the nailing position, means for moving the member to its receiving position, and means past which the arms travel in the movement of the work-positioning member for controlling their relative movement.

1,400,717. VENTILATED AUTOMOBILE-DRIVER'S SEAT. DAVID BENSON and GEORGE K. BAUCH, Des Moines, Iowa. Filed July 16, 1920. Serial No. 396,778. 1 Claim. (Cl. 155—5.)



A seat comprising a frame formed with members having laterally-bent alining end portions, means for adjustably connecting said end portions, said members being further bent on an axis substantially parallel with said alining end portions and formed with slots adjacent the latter bends, a foldable connecting rod extending between said members and having its ends within said slots and pivoted to the members, and a connecting device between the remaining ends of the members arranged for longitudinal adjustment, together with a fabric tube mounted in embracing relation on said frame.

1,400,718. CONVERTIBLE CHAIR-BED. HENRY BITTEL, San Francisco, Calif. Filed July 20, 1921. Serial No. 486,008. 2 Claims. (Cl. 155—45.)

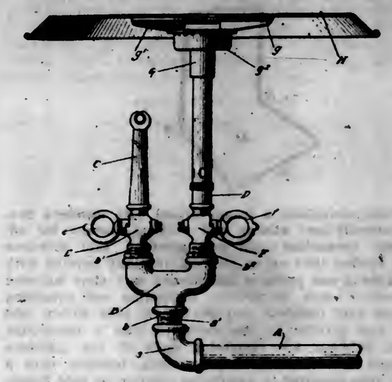


1. A convertible chair bed, comprising seat and back portions hinged together to permit the upward swinging of said back portion from a horizontal position, means consisting of a plurality of connected arms arranged in pairs at opposite ends of the back and pivotally connected therewith for coöperating with the seat to maintain the back in its angular adjusted position relatively to the seat, said arms adapted for swinging movement on their pivot and of pivotal movement relatively to each other to provide a pair of supporting legs for the back on the movement of the same to a substantially horizontal position, and a part at each end of the back for coöperating with the arms at their point of interconnection to hold the same relatively to the back.

1,400,719. COMBINED GAS BURNER AND HEATER. LEO BLOOM, Brooklyn, N. Y. Filed Nov. 9, 1920. Serial No. 422,849. 2 Claims. (Cl. 126—254.)

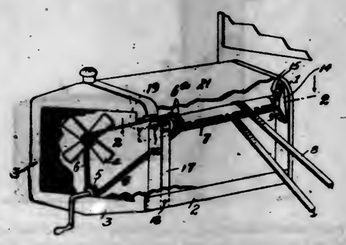
1. A device of the class described embodying an integral three way T-shaped union, the horizontal portion of which is formed, intermediate its ends, with a depending interiorly threaded leg adapted to screw onto a gas fixture and the opposite ends of which portion are formed with upstanding parallel, exteriorly threaded arms, an upstanding plug-valve casing screwed on to each arm and each cas-

ing having a male threaded portion at its top, a separately and independently operable plug valve in each casing for controlling the flow of gas therethrough, an upstanding burner tip screwed on to the male threaded portions of one



valve casing, an upstanding Bunsen tube screwed onto the male threaded portion of the other valve casing and extending upwardly beyond the top of the burner tip, a cooking burner mounted on the top of the Bunsen tube, and a pan supporting grid mounted on the cooking burner.

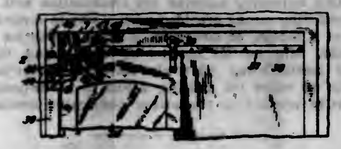
1,400,720. POWER ATTACHMENT FOR FORD CARS. ORAL ARVIL BLOOM, Oneida, Kans. Filed Feb. 15, 1921. Serial No. 445,126. 3 Claims. (Cl. 180—53.)



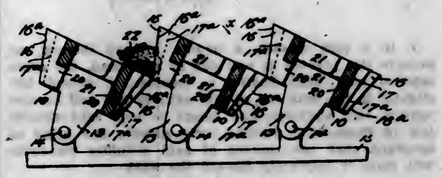
1. In an apparatus of the class described, the combination with a frame and a dash, of a bracket provided with a hollow apertured body and with outwardly-extending apertured feet, said bracket being substantially V-shaped, a filler block between the feet of the bracket, said filler block being substantially V-shaped, said filler block and bracket secured against the dash, a roller journaled at one end in the apertured body of the bracket, means supporting the other end of the roller upon the frame, means for rotating or driving the roller, and means for deriving power from the roller for driving an independent device or apparatus when the roller is rotated.

1,400,721. DOOR-OPENING DEVICE AND LOCK FOR ELEVATOR-DOORS. FRANZ A. BORDTCHER, Bergenfield, N. J. Filed Jan. 17, 1919. Serial No. 271,614. 13 Claims. (Cl. 187—49.)

1. In a device of the class described, a shaft door, means for normally locking the door in closed position, an elevator car, a controller for operating the car, and means, carried by the car, for operating the door locking means of the shaft door when the car is in position at the floor, said lock operating means embodying lock engaging means adapted to automatically engage the lock when the car arrives at the floor, a foot operated lever for operating said lock engaging means, and operative connections between the lever and the car controller for automatically precluding the operation of the lever while the controller is in a position to effect the operation of the car, and for automatically precluding the operation of the controller when the lever is in any other position than that which corresponds to the closed and locked position of the shaft door.

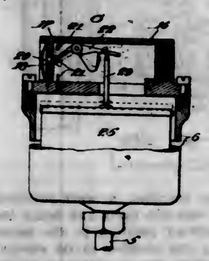


1,400,722. GRATE. LESTER BUDD, Philadelphia, Pa. Filed Jan. 9, 1920. Serial No. 350,368. 3 Claims. (Cl. 126—179.)



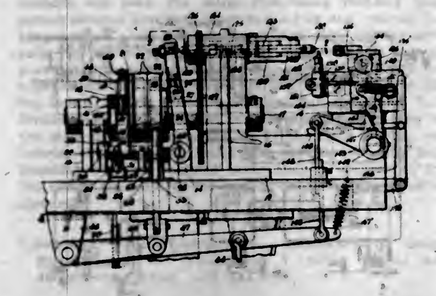
1. A grate including bars rockably mounted side by side and having projections on their sides spaced apart, certain of the projections being longer than others with the long projections of one bar opposed to the short projections of the adjacent bar, said projections having their opposite side surfaces converging downward so that upwardly tapering channels are provided between the opposed side walls of adjacent long projections and comparatively narrow upwardly tapering channels are formed between the side walls of the short projections and adjacent side walls of the longer projections, said grate bars being so arranged that the long projections of one bar extend into the spaces between the long projections of adjacent bars; substantially as described.

1,400,723. VACUUM FUEL-FEED DEVICE FOR INTERNAL-COMBUSTION ENGINES. CHARLES S. BURTON, Oak Park, Ill. Filed June 16, 1920. Serial No. 389,285. 4 Claims. (Cl. 103—3.)



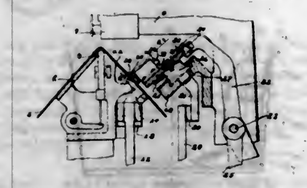
1. In a device for the purpose indicated, a conduit for connecting a main low level liquid supply tank with the carburetor to be supplied therefrom; a chamber comprised in said conduit; check valves in the conduit respectively antecedent and subsequent to the chamber, both opening for flow toward the carburetor; a pulsator communicating with the upper part of said chamber for alternately producing partial vacuum and pressure therein; an atmosphere vent means communicating with said chamber; a valve which controls said vent positioned with respect to its seat for being normally opened by the suction impulse and held closed by the pressure impulse of the pulsator; movable means for holding the valve closed against the suction pull tending to open it; a float in the chamber, and means operated by the rise of the float to a predetermined height for withdrawing said movable means from valve-holding position.

1,400,724. WIRE TWISTING AND BENDING MACHINE. JAMES A. BUTLER, Needham, Mass., assignor to Boston Piano Supply Company, Norwood, Mass., a Corporation of Massachusetts. Filed Jan. 29, 1918. Serial No. 214,316. 10 Claims. (Cl. 140—93.)



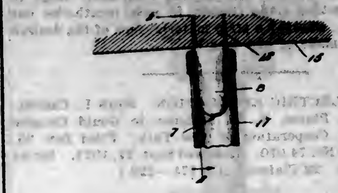
1. A machine for twisting wires comprising a wire twisting device having wire gripping jaws, normally disconnected automatic driving mechanism for said device, means to hold an article having extended wires, and related mechanisms arranged and acting to advance said holding means to said twisting device, and to connect said driving mechanism with the twisting device.

1,400,725. SIGNATURE-FEEDING MECHANISM FOR BOOK-STITCHING MACHINES. MARTIN CHRISTENSEN, Racine, Wis., assignor to Christensen Machine Co., Racine, Wis., a Corporation of Wisconsin. Filed Dec. 13, 1919. Serial No. 344,696. 7 Claims. (Cl. 198—183.)



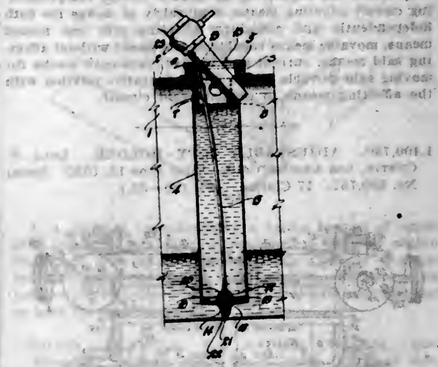
1. The combination with the signature holder of a book stitching machine, of signature feeding mechanism comprising a pair of devices adapted to engage the opposite sides of the signatures, means to move said devices simultaneously relative to said holder, and means to move one of said devices relative to the other for the purpose described.

1,400,726. CURTAIN-ROD BRACKET. MATTHEW D. CODDY, Auburn, R. I., assignor to James N. Henry, Providence, R. I. Filed Aug. 5, 1921. Serial No. 489,930. 4 Claims. (Cl. 156—22.)



4. In a bracket for curtain rods, an end housing portion, semi-tubular resilient wings integral with the housing portion to snugly engage the inner wall of a tubular rod, and attaching members upon the ends of the wings extended beyond the wings.

1,400,727. DETACHABLE RESERVE-SUPPLY TANK. AMBROSE W. CODD, Spokane, Wash. Filed Apr. 12, 1920, Serial No. 373,316. Renewed Sept. 1, 1921. Serial No. 497,674. 1 Claim. (Cl. 158—46.5.)



The combination with a main supply tank having a threaded opening, of a bodily removable reserve supply tank supported therein and having overflow ports and a somewhat enlarged filler port near its upper end, a cap closing the upper end of the reserve tank, a downwardly projecting nipple on the lower end of the reserve supply tank, and a valve seat in said nipple, a stem within the reserve tank having a screw threaded end adjacent to said nipple and said stem formed with a valve head to close the valve seat in the nipple, the upper end of said stem curved to provide handhold for manipulation of same and provide means whereby the cap may be readily removed from said stem.

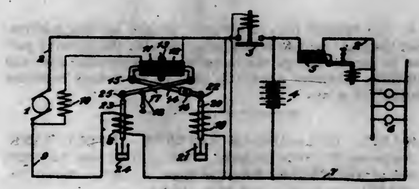
1,400,728. SPACE-LINER FOR MATRICES. WALTER B. COZATT, San Francisco, Calif., assignor of one-half to James H. Brady, San Francisco, Calif. Filed Feb. 4, 1919. Serial No. 274,881. 2 Claims. (Cl. 199—63.)



1. A space liner for a matrix for casting strip material faces having a casting face forming at the edge of the

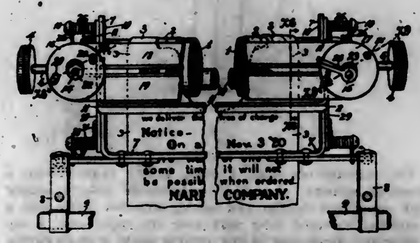
printing face of the rule produced by the matrix block an obtuse angle with a face thereof adapted to contact with another surface from a point beginning at the apex of said angle when in place in the matrix, the matrix being formed at one end with an opening sufficiently large to permit the casting made therein to pass lengthwise out of said matrix, whereby a strip material face of the desired form may be made of any length.

1,400,729. ELECTRIC REGULATION. JOHN L. CREVELING, White Plains, N. Y., assignor to Gould Coupler Company, a Corporation of New York. Filed Jan. 25, 1916, Serial No. 74,070. Renewed Sept. 21, 1921. Serial No. 502,180. 22 Claims. (Cl. 171—229.)



1. Means for regulating an electric circuit comprehending circuit affecting means, a plurality of means for both independently and conjointly affecting said last named means, movable means capable of movement without affecting said means, current and voltage responsive means for moving said movable means into cooperative relation with the affecting means to regulate said circuit.

1,400,730. ADJUSTABLE COPY-HOLDER. LULA P. CURTIS, Los Angeles, Calif. Filed June 12, 1920. Serial No. 389,762. 17 Claims. (Cl. 120—32.)



13. In a copy holder, a frame, a feed roller in said frame, shutters pivotally connected to said frame and arranged parallel to said roller, a spring for normally holding said shutters in contact with said roller; said shutters being adapted to be moved away from said roller for the insertion of a copy between the roller and the shutters; a roller pivotally connected to said frame and yieldingly held in contact with said feed roller, disks on which said shutters are pivotally mounted, means for revolving said disks to move said shutters toward and from each other, and means for locking one of said disks from rotation to hold said shutters in a fixed position.

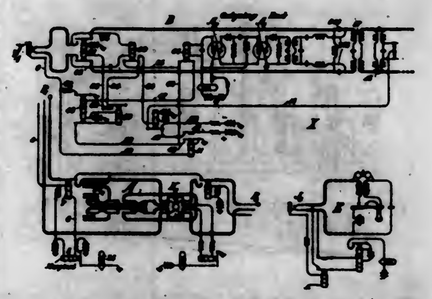
1,400,731. LATHE-CENTER. EUBLL H. DAVIS and RAYMOND D. BAKER, Chicago, Ill. Filed June 14, 1920. Serial No. 388,908. 4 Claims. (Cl. 82—33.)

1. A lathe center comprising, a carrying stem formed with an axial bore, a work engaging spindle having a shank portion extending into said bore and a ball bearing portion intermediate its length and of a frustoconical form the expansion of which is rearward, a ball race member associated with the forward end of the carrying stem,



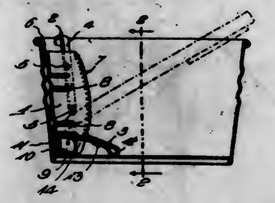
a series of interposed rolling members, and means for adjusting said ball race member in relation to said carrying stem, substantially as set forth.

1,400,732. SIGNALING SYSTEM. CHARLES S. DEMAREST, Brooklyn, N. Y., and JOHN DAVIDSON, Jr., Montclair, N. J., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed May 12, 1919. Serial No. 296,498. 10 Claims. (Cl. 179—4.)



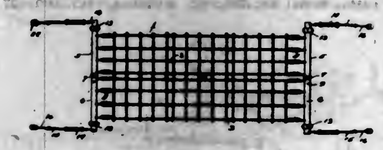
1. A telephone exchange system comprising a trunk circuit extending from a first to a second switchboard, a link circuit at the first switchboard, a simplex circuit associated with said trunk, a polarized relay included in said simplex circuit and located at said second switchboard, signaling means controlled by said relay, and means in said trunk at said first switchboard responsive upon the connection of said link circuit to said trunk for applying to said simplex circuit direct current of a polarity suitable for operating said relay.

1,400,733. WASHTUB-PROTECTOR. ISHUM BOYD DORSEY, Eminence, Ky. Filed Dec. 2, 1920. Serial No. 427,889. 2 Claims. (Cl. 68—31.)



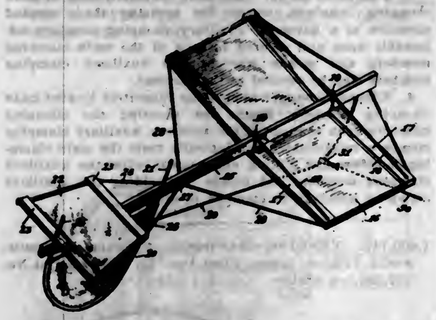
2. A device of the class described comprising a vertical wall adapted for disposition at the inner side of the wall of a wash tub, hooks on the upper edge of said wall adapted to engage the upper edge of the tub, the lower edge of said wall being bent upwardly substantially upon itself, a horizontal shelf having its inner edge bent downwardly and positioned between said upwardly bent end of said wall and the body of the latter, fasteners passing through said wall and said downwardly bent edge of said shelf, the outer edge of said shelf being folded downwardly and inwardly upon itself to provide a reinforcing bead, and means securing the folded edge of said shelf to the body of the latter.

1,400,734. FOLDING BED. EDWARD DERPS, Milwaukee, Oreg. Filed Dec. 9, 1919. Serial No. 343,675. 1 Claim. (Cl. 5—5.)



In a bed, the combination of a foldable bed bottom and foldable end bars, the latter comprising hingedly connected sections and bars extending across and bracing the hinged point, a leg pivotally secured to said end bar near each end thereof, each leg having the pivotal end thereof provided with a substantially right angular extension for engagement with the underside of said end bar to hold the leg in an upright position, an angular extending foot formed upon the lower end of each leg and extending in the same direction from the leg as the right angular extension above mentioned, and said angular extending foot provided with an inclined brace that is secured at its top end to the said leg for keeping the foot from bending upwardly.

1,400,735. AEROPLANE-KITE. LAWRENCE R. EDDY, Elisabeth, N. J. Filed Mar. 7, 1921. Serial No. 450,207. 2 Claims. (Cl. 244—22.)



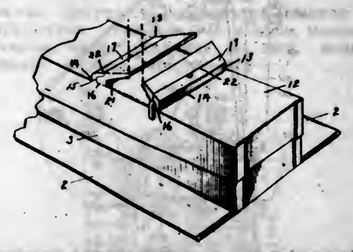
1. An aeroplane kite, comprising a longitudinal rib, a horizontal plane-body-portion secured at one end thereof, a tail-plane and a tail-fin mounted at the other end of said rib, said tail-fin embodying a bowed frame having its free ends engaged with the rib, and said tail-plane having its rear edges adjustably mounted upon one of said free ends of the tail-fin.

1,400,736. STAYBOLT STRUCTURE. JOHN ROGERS FLANNERY and EDWARD S. FITZ SIMMONS, Pittsburgh, Pa., assignors to Flannery Bolt Company, Pittsburgh, Pa. Filed Dec. 12, 1919. Serial No. 344,455. 2 Claims. (Cl. 85—1.5.)

1. In a staybolt structure, the combination of a boiler sheet having an opening provided with a threaded wall, an exteriorly threaded bearing sleeve or bushing passing through said opening, a staybolt having a head mounted in said sleeve or bushing, and a weld uniting the threaded exterior of the sleeve or bushing to the boiler sheet, whereby the boiler sheet and sleeve form a homogeneous structure and leakage past the threaded sleeve or bushing prevented.

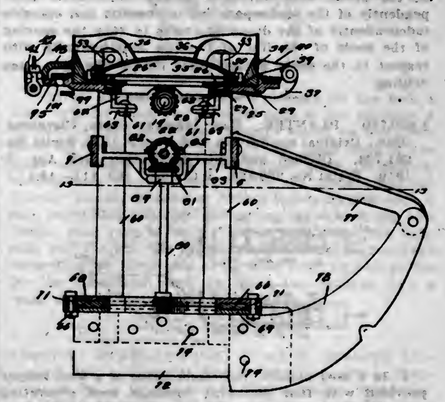


1,400,737. RAILROAD-TIE. VAL F. FRANCK, Louisville, Ky., assignor of one-half to E. H. Hinkebein, Louisville, Ky. Filed May 20, 1920. Serial No. 382,761. 4 Claims. (Cl. 238—73.)



1. A railroad tie comprising a casing formed of upper and lower box-like sections designed to fit, one within the other, filler means inclosed within the said sections, rail holding means on the upper section, and flanges on both sections arranged for mutual interlocking engagement to hold the sections together.

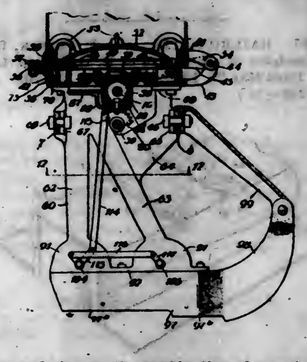
1,400,738. PLANTER. RAY S. GEER, Cleveland, Ohio. Filed Aug. 2, 1910, Serial No. 575,156. Renewed Mar. 11, 1921. Serial No. 451,480. 23 Claims. (Cl. 111—34.)



3. In a seed planter, the combination of a seed container, three or more conduits leading from the seed con-

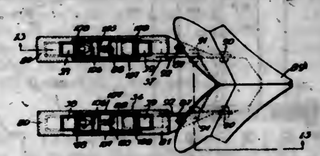
tainer downward and adapted to deposit seeds in a definite spaced relation along two parallel lines spaced from each other to form a double row, dropping valves at the lower ends of the conduits adapted either to be actuated intermittently for hill planting or to be maintained inoperative in open position for drilling, means for intermittently operating said valves, means for separating seeds from the mass in the container and discharging one seed at a time into each conduit, means for operating the said seed separating and discharging means either intermittently for hill planting or continuously for drilling, and means for rendering the said discharging means inoperative with respect to all but one conduit on each of the said parallel lines when the seed separating means is operated continuously for drilling.

1,400,739. PLANTER. Ray S. Gehr, Cleveland, Ohio. Filed Nov. 9, 1918. Serial No. 261,794. 10 Claims. (Cl. 111—15.)



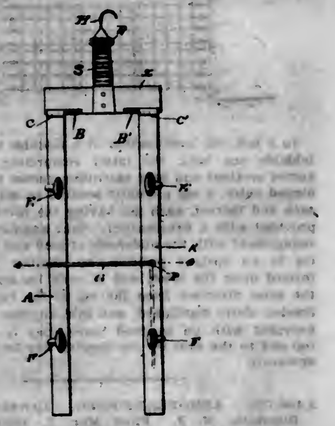
6. In a seed planter, the combination of a container for seeds, mechanism for separating individual seeds from the mass in the container and discharging them therefrom, a plurality of downwardly extending conduits arranged to receive the seeds discharged from the container and deposit them on the ground along two parallel lines spaced from each other to form a double row, dropping valves at the lower ends of the conduits adapted to simultaneously discharge the seeds from the conduits to effect hill planting, means for locking said valves open to effect drilling of the seeds, and adjustable means controllable independently of the seed-separating mechanism and operable independently of the dropping valves to vary the spacing of the seeds of one line of the row longitudinally with respect to the seeds of the other line of the row when drilling.

1,400,740. PLANTER. Ray Stewart Gehr, Cleveland, Ohio. Original application filed Nov. 9, 1918, Serial No. 261,794. Divided and this application filed Apr. 2, 1919. Serial No. 286,831. 9 Claims. (Cl. 111—14.)



4. In a seed planter, the combination of a seed hopper provided with four discharge openings, seed separating means in the bottom of the hopper provided with two concentric series of individual seed cells, the cells of one series being arranged to advance successively to two of the said discharge openings while the cells of the other series are simultaneously advanced to the other two discharge openings, four conduits leading downward from said discharge openings and means for receiving seeds from the lower ends of said conduits and operable intermittently to simultaneously deposit on the ground four seeds in predetermined spaced relation to each other on two adjacent parallel lines.

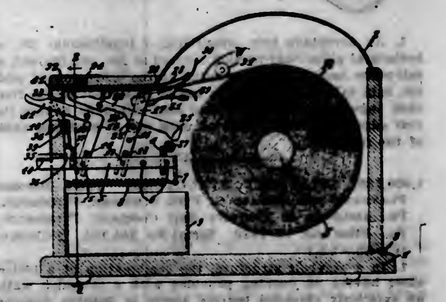
1,400,741. DEVICE FOR HANGING AND PRESSING TROUSERS. John J. Getgey, Tulsa, Okla. Filed Nov. 3, 1919. Serial No. 335,265. 4 Claims. (Cl. 100—57.)



1. A garment hanger comprising oppositely located main clamping members, means for securing the clamping members to a garment, auxiliary clamping members adjustable upon and secured to each of the main clamping members and means whereby the auxiliary clamping members may be secured to the garment.

4. A trousers hanger comprising oppositely located main clamping members, means for securing the clamping members upon the legs of the trousers, auxiliary clamping members, means extending laterally from the main clamping members for sliding engagement with the auxiliary clamping members and means for holding the auxiliary clamping members in clamped position.

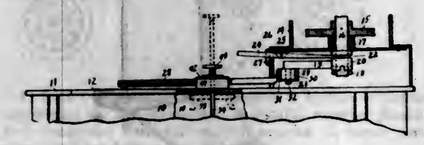
1,400,742. VENDING-MACHINE. Bernard F. Grumstrup, Clinton, Iowa. Filed Mar. 31, 1921. Serial No. 457,395. 6 Claims. (Cl. 211—33.)



1. In a vending machine a slide, yielding means for holding the slide normally projecting in one direction, an

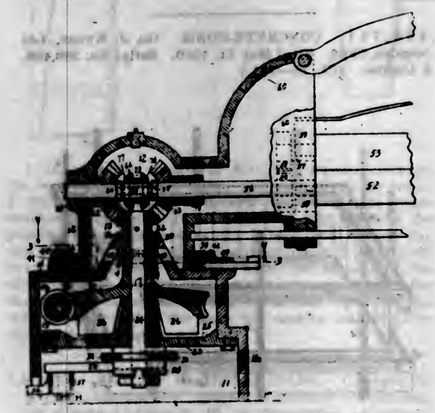
ejecting lever for shifting the slide, an ejecting lever operated by the slide, means carried by the ejecting lever for engaging and shifting a perforated strip, a stop lever having one arm normally supported by the ejecting lever, and coöperating means upon the stop and ejecting levers for shifting the stop lever during the movement of the perforated strip by the ejecting lever to limit the movement of said strip.

1,400,743. DRIVING MECHANISM FOR WASHING-MACHINES. Hans Hansen, Kansas City, Mo. Filed Apr. 18, 1921. Serial No. 462,288. 3 Claims. (Cl. 74—50.)



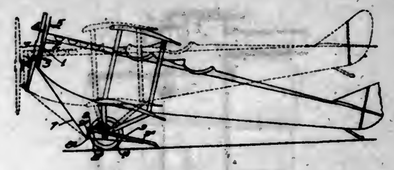
1. A driving mechanism for washing machines including a transmission case, a power driven vertical shaft mounted in bearings therein, a pin through the base of said shaft, a crank having a hub loosely sleeved upon said shaft above said pin; a rack bar pivotally connecting at its inner end to the outer element of said crank, a bearing support as a rest for the outer portion of said rack bar; clutch mechanism embodied with said crank, a lever pivoted to said case engaging said clutch mechanism, a hook on said case engageable with said lever to effect a tilting of the rack bar on said rest when said lever acts to raise said crank on said shaft for clutch disengagement.

1,400,744. GEAR TRANSMISSION FOR WASHING-MACHINES AND WRINGERS. Hans Hansen, Kansas City, Mo. Filed Apr. 18, 1921. Serial No. 462,289. 7 Claims. (Cl. 74—101.)



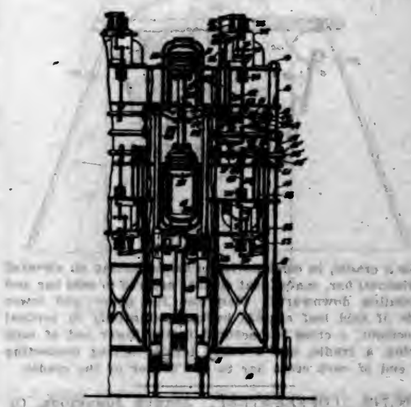
1. In gear transmissions, a stationary base housing substantially cylindrical in wall section, a top cover therefor and integral therewith, said cover having a level surface except at the center thereof where it is drawn upwardly to provide a vertical shaft bearing; a horizontal plate rigidly disposed at a spaced distance beneath said cover, a vertical shaft bearing therein, a shaft in said bearings and an oil tight chamber included between said cover and plate.

1,400,745. AEROPLANE-ENGINE-STARTING APPARATUS. Ben Harris, San Diego, Calif. Filed Nov. 26, 1920. Serial No. 426,211. 6 Claims. (Cl. 244—51.)



1. A starting apparatus for aeroplane engines, including a lever member revolubly mounted upon the main shaft of the engine, a ratchet wheel in connection with the main shaft, a ratchet pawl mounted on said lever member adapted to engage said ratchet wheel, a lever supported on a supporting axle of the aeroplane and a cable connecting said lever with the lever on said axle supporting member whereby said lever member will be revolved, carrying with it the shaft of the engine with the lowering of the rear end of the aeroplane.

1,400,746. INTERNAL-COMBUSTION-ENGINE CONSTRUCTION. Frederik Van Rossen Hoogendijk, Berkeley, Calif. Filed Mar. 20, 1919. Serial No. 283,319. 4 Claims. (Cl. 123—57.)

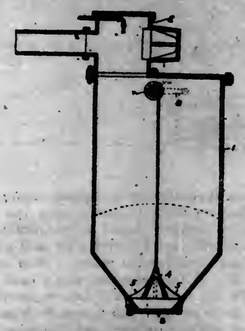


1. In an engine, a bed, lower columns on the bed, a lower cylinder block on the upper ends of the columns, a cylinder in the block, upper columns seated on the lower block, an upper cylinder block on the upper ends of the upper columns, a cylinder in said upper block, tie rods extending from the bed through all of the columns and the cylinder blocks, pistons in the cylinders having rods a yoke connecting the rods and operating between the two blocks, yoke rods extending downwardly from the yoke ends and through the lower cylinder block, a cross-head connecting the lower ends of the yoke rods, vertical guides for the cross-head borne by the lower columns, and a crank shaft connected to the cross-head.

1,400,747. STORAGE-TANK. John M. Horwood, Dormont, Pa., assignor to The Hagan Corporation, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 8, 1919. Serial No. 343,418. 5 Claims. (Cl. 259—39.)

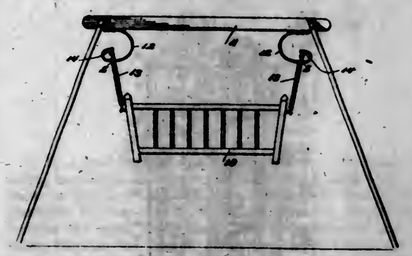
1. A tank for ashes, etc., provided with an outlet at its lower end, in combination with a door for such outlet,

means arranged within the tank and adapted to so control the movement of the material through the tank that the flow of material adjacent to the wall of the tank will be



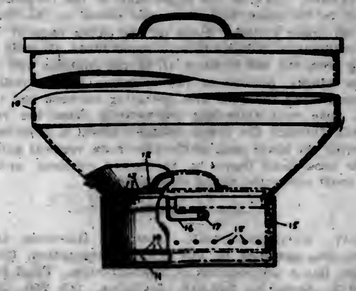
more rapid than the inner or central portions of the mass contained in the tank and means for raising and lowering the retarding means.

1,400,748. CRADLE. JULIUS JACOB, Columbia, S. C. Filed Dec. 10, 1920. Serial No. 429,713. 1 Claim. (Cl. 5—56.)



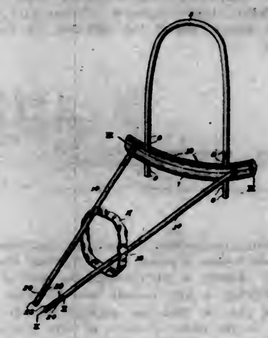
In a cradle, in combination, a frame having an elevated horisontal bar, spaced leaf springs secured to said bar and extending downwardly therefrom the upper and lower ends of said leaf springs being substantially in vertical alinement, a cross bar secured to the lower end of each spring, a cradle, and a coiled tension spring connecting an end of each cross bar to one corner of the cradle.

1,400,749. COFFEE-STEEP. ARTHUR JOHNSTONE, Ottumwa, Iowa. Filed Oct. 19, 1921. Serial No. 508,695. 2 Claims. (Cl. 53—3.)



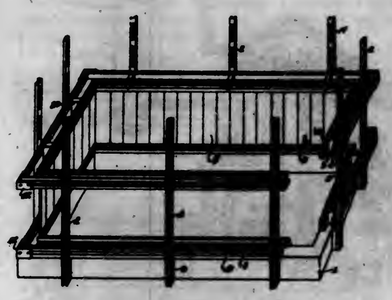
1. A coffee steep for brewing coffee consisting of a coffee strainer having a superincumbent hot water container and separated therefrom by detachable percolator, said coffee strainer having a perforated bottom and a percolator having a closed bottom and strainer located in its side walls positioned above said perforated bottom.

1,400,750. ANIMAL-WEANING DEVICE. WENCEL F. KOLARIK, Omega, Mich. Filed Feb. 17, 1921. Serial No. 445,835. 1 Claim. (Cl. 119—130.)



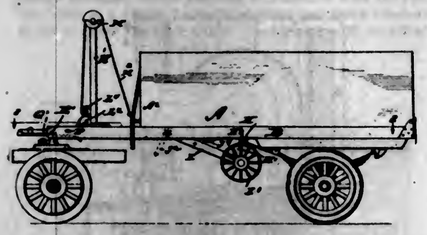
An animal weaning device comprising a throat bar, a neck yoke having its ends slidable through said throat bar, means to retain the yoke against sliding movement relative to the throat bar when in any of its adjusted positions, a pair of side prodding bars rigid with and projecting forwardly from said throat bar, said yoke being provided with a series of notches, said retaining means including a pair of sliding bolts carried by the throat bar and engageable in the notches of the yoke and a single spring for normally causing said bolts to engage in said notches.

1,400,751. CONCRETE-FORM. IRA J. KUBET, Los Angeles, Calif. Filed May 11, 1920. Serial No. 380,490. 5 Claims. (Cl. 25—131.)



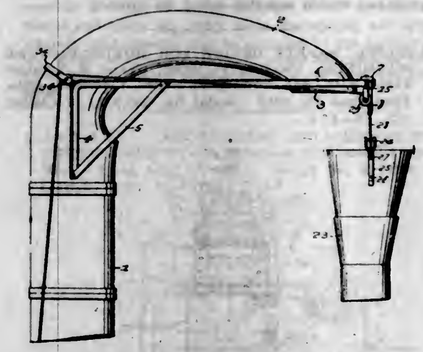
1. In a concrete form, the combination with uprights, of horisontally disposed frames connected to and supported by said uprights, each of said frames comprising two pairs of spaced channels, the members of each pair of channels being arranged back to back with the flanges vertically disposed, and one flange of the upper members of said pairs of channels being narrower than the other flange in order to permit the ready insertion or removal of panel members.

1,400,752. TRAILER. CHARLES H. LAND, Jr., Detroit, Mich., assignor of one-half to William H. Wilson, Detroit, Mich. Filed June 14, 1920. Serial No. 388,813. 13 Claims. (Cl. 280—33.1.)



1. In a traction machine, a tractor, a trailer, a folding supporting leg for the trailer, a slidable member detachably connected with the tractor adapted to throw said supporting leg into or out of action.

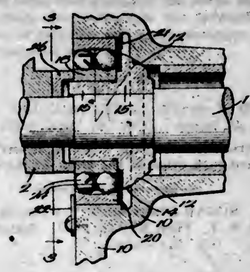
1,400,753. HANGER APPARATUS FOR BLOWER-PIPES WHEN FILLING SILOS. ARTHUR G. LORCK, Campbellsport, Wis. Filed May 20, 1921. Serial No. 471,286. 4 Claims. (Cl. 302—60.)



1. In a hanger apparatus for the purpose indicated, the combination with a blower having a discharge spout, a frame supported thereon and comprising side angle brackets, a bar connecting the ends of said brackets, depending flanges carried by the lateral end of said bar and having spring tensioned movable plates, a distributer having diametrically opposite loops for separating the movable plates from the flanges so as to connect with the flanges, and cables operatively connecting with the distributer for hoisting the same for causing said loops to engage the fasteners.

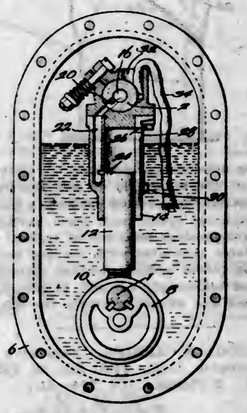
1,400,754. SEALED RADIUS-BEARING. CHARLES L. MCCUEN, Chicago, Ill., assignor to Resolute Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 11, 1920. Serial No. 416,048. 6 Claims. (Cl. 64—36.)

6. In combination, a receptacle to be sealed, a shaft and a radius bearing for the shaft in one wall of the receptacle, said radius bearing comprising an annular shoulder imperviously related to the walls of the receptacle, said shoulder being spherical and facing inward, a ring on the shaft making fluid-tight contact therewith and having a spherical surface making sealed contact with said shoulder, the ring having an integral sleeve in which the shaft is rotatable and a ball bearing having an inner and an outer ball race, the inner ball race being mounted



on said sleeve and the outer ball race being stationary and having its inner surface spherical and concentric with said shoulder.

1,400,755. COMPRESSOR. CHARLES L. MCCUEN, Chicago, Ill., assignor to Resolute Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 11, 1920. Serial No. 416,049. 5 Claims. (Cl. 230—27.)



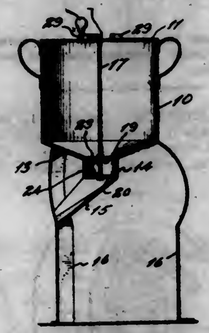
3. A pump having a stationary hollow shaft, a cylinder supported by said shaft and adapted to oscillate upon it as an axis, the cylinder having a passage in the side communicating at one end with the inside of the shaft and at the other end with the outer end of the cylinder, the cylinder having a second port near the inner end, a plunger working in said cylinder and adapted to momentarily uncover the outer port whereby the plunger serves as a valve for controlling it, means for controlling the other of said ports, a stationary drive shaft, and an eccentric secured to said drive shaft and connected to the plunger for causing thelatter to reciprocate in the cylinder and the cylinder to oscillate about the hollow shaft as an axis.

1,400,756. NAIL. FRED L. MACKENZIE, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Oct. 14, 1914, Serial No. 866,675. Divided and this application filed Sept. 4, 1917. Serial No. 189,428. 3 Claims. (Cl. 85—28.)

1. A nail formed of sheet metal, having a shank and an unbalanced head lying in the plane of the shank, said

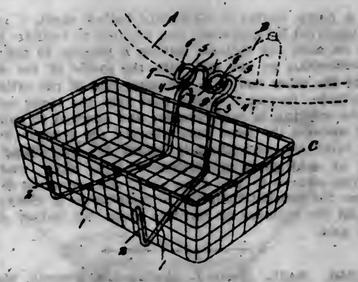
head having a depending projection on its under side at its extremity, the projection having a lower surface extending transversely of the nail shank and having faces inclined toward each other in the plane of the shank.

1,400,757. SUGAR-DISPENSER. WLADYSLAW MALUSZ, Harrison, N. J. Filed May 25, 1921. Serial No. 472,521. 1 Claim. (Cl. 221—108.)



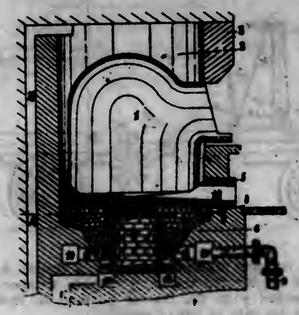
A dispensing apparatus comprising, a reservoir, a discharge spout at the lower end of said reservoir, means holding the reservoir in elevated position, a plate at each end of the discharge spout, each plate having openings therein, the said openings being out of vertical alinement, coöperating plates associated with the first named plates the coöperating plates having openings therein arranged out of vertical alinement, a shaft supporting the coöperating plates and means to rotate the shaft.

1,400,758. LUGGAGE-CARRIER. FREDERICK H. MANSFIELD, Washington, D. C. Filed Jan. 28, 1921. Serial No. 440,608. 3 Claims. (Cl. 224—41.)



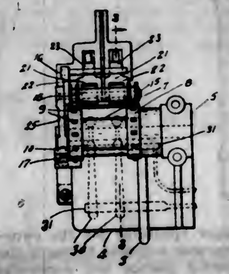
1. A bicycle basket carrier formed with a central perpendicular upwardly opening loop portion adapted to engage beneath the handle bar extension, forwardly opening loops to engage the handle bar on each side of the extension, and arms depending from and projecting in advance of such forwardly opening loops.

1,400,759. CRUCIBLE-FURNACE. MAURICE MAUBY, Liege, Belgium. Filed Oct. 27, 1919. Serial No. 333,726. 2 Claims. (Cl. 263—11.)



1. A crucible furnace comprising a gas burner arranged vertically and a readily removable slab of refractory material substantially closing the top of said burner and having a conically hollowed out upper surface adapted to support the crucible, said slab being provided with a passage leading from the apex of said conical surface for carrying away any molten material out of the furnace.

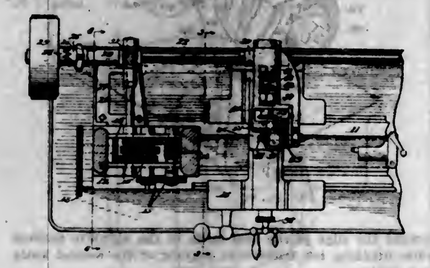
1,400,760. SAFETY DEVICE FOR MOVING-PICTURE MACHINES. CHARLES F. MEHL, HENRY B. LIEBLER, JABEZ NALL, and EDWARD J. NOBBE, Cleveland, Ohio. Filed June 18, 1919. Serial No. 305,203. 3 Claims. (Cl. 88—17.)



1. The combination with a moving picture machine and the motor and light circuit therefor, of a switch comprising movable members and a stationary member, a pair of levers pivotally mounted near the movable switch members and arranged to engage therewith, and a roller carried by each lever and adapted to rest against different portions of the film and support said levers in their upper position, the arrangement being such that on the breaking or splitting of any part of said film one or both levers will fall and open said switch members.

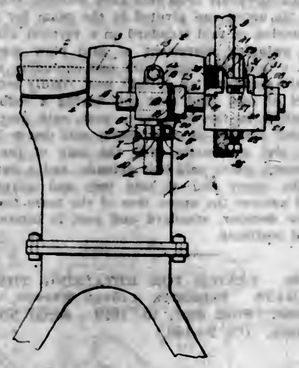
1,400,761. THREAD-MILLING MACHINE. ROBERT MILNE, Rockford, Ill., assignor to The Savage & Love Company, Rockford, Ill., a Corporation of Illinois. Filed Jan. 8, 1919. Serial No. 270,157. 3 Claims. (Cl. 10—154.)

1. In a machine of the character described, the combination with a bed, a carriage movable longitudinally thereon, and means for moving the carriage longitudinally, of means for driving said carriage-moving means and for automatically stopping the drive when the carriage has reached a predetermined point comprising a driving and a driven member adapted to be connected by a clutch, a clutch shifting lever, a lengthwise movable member substantially co-extensive with the length of travel of the cutter carriage, means adapted to normally hold the shifting lever in a clutch engaged position and being releasable so as to cause the clutch to be disengaged, said lengthwise



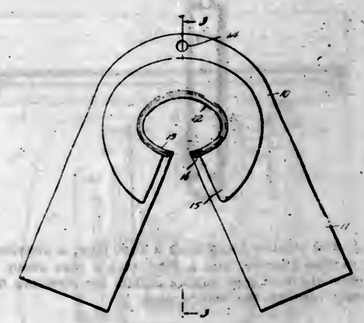
movable member and said clutch operating means being coöperatively arranged and constructed so that when said member is moved in either direction it will actuate said means and cause the clutch to be disengaged, and means whereby said member may be actuated by the carriage at any given point in its travel in either direction so as to automatically release or disengage the clutch at any given point.

1,400,762. TOOL-HOLDING ATTACHMENT FOR GRINDING-MACHINES. THOMAS B. MURPHY, Detroit, Mich. Filed Oct. 18, 1920. Serial No. 417,616. 7 Claims. (Cl. 51—217.)



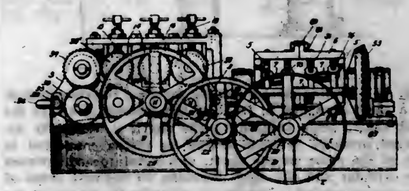
1. A device of the character described comprising a bearing bracket, a socket having a stem engaged by the bearing bracket, a shaft adjustably engaged by the socket, a block slidably fitting upon said shaft and held against rotation thereon, abutment collars carried by the shaft upon opposite sides of the block, said block having its upper face cut to provide a central seat and side seats upon opposite sides of the central seat, the side seats being cut at an incline and having longitudinally extending ribs providing abutment shoulders, a strip hingedly mounted in the central seat, a set-screw extending upwardly through the block and engaging the strip, threaded stems extending from the block from the forward end thereof and in front of said side seats, and abutment nuts screwed upon the threaded stems.

1,400,763. LAUNDRY-FORM. FRANK E. O'BRIEN, Troy, N. Y. Filed Apr. 19, 1920. Serial No. 374,963. 2 Claims. (Cl. 68—11.)



1. As a new article of manufacture, a collar form or shape comprising a flat metal plate having an opening therein and having a longitudinal recess communicating with said opening, and an upstanding flange constituting the wall of said opening and terminating at the walls of the recess.

1,400,764. MACHINE FOR STRAIGHTENING BENT PIPES, RODS, &c. JAMES C. OLLARD, Tacoma, Wash. Filed Jan. 30, 1919, Serial No. 273,952. Renewed Jan. 31, 1920. Serial No. 355,410. 20 Claims. (Cl. 153—60.)



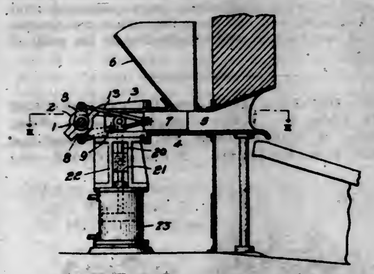
1. A pipe straightening machine comprising a series of pipe straightening rolls having their axes substantially at right angles with the axes of the pipe, provided with grooves to receive pipes of different sizes and grouped to act first upon the pipe to roughly straighten it, a movable frame, a second series of rolls mounted in said frame having their axes extending in approximately the same direction as the pipe and mounted to revolve thereabout, and means for adjusting the frame so that the rolls carried thereby will register with selected grooves of the first named rolls.

1,400,765. OIL-WELL CLEANER. MELLVILLE A. PALLETTE, Independence, Mo. Filed Mar. 28, 1921. Serial No. 456,267. 5 Claims. (Cl. 166—20.)



1. A well cleaner comprising a feed pipe, a distributer head carried thereby, and a fluid return pipe about the feed pipe, the feed pipe having outlets for directing fluid upwardly through the return pipe.

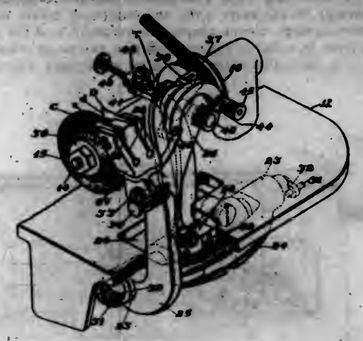
1,400,766. STOKING MECHANISM. THOMAS A. PEBBLES, Pittsburgh, Pa. Filed Mar. 18, 1920. Serial No. 366,798. 4 Claims. (Cl. 198—226.)



1. In a stoking mechanism for furnaces the combination of a shaft arranged in front of the furnace, bearings for said shaft, arms secured to the shaft, a vertically arranged pressure cylinder having its piston connected to one of the arms on the shaft, means interposed between the cylinder and the shaft bearings on opposite sides of the arm connected to the piston, whereby the thrust of the piston on the shaft may be transmitted to the cylinder, plungers for forcing fuel into the furnace and pitmen connecting the plungers to arms on the shaft.

1,400,767. ART OF GRINDING CUTTING EDGES. FREDERICK H. PERRY, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 21, 1917. Serial No. 187,402. 22 Claims. (Cl. 51—100.)

1. The method of sharpening upon an abrasive surface one of a plurality of curved knives having cutting edges of different form, which consists in supporting one knife in a grinding position, holding the other knife at an angle to the first, and moving the knives together to



present the edge of the first knife to the abrasive surface while utilizing the transverse contour of the second knife as a guide.

1,400,768. REVERSIBLE PLOW. FRANK PIAC, Marinette, Wis. Filed Nov. 18, 1920. Serial No. 424,960. 1 Claim. (Cl. 97—21.)



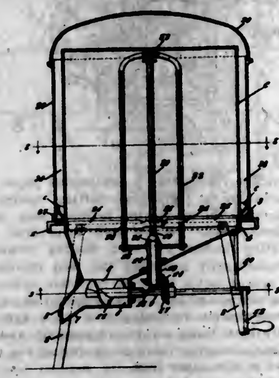
In a plow, the combination of a beam, an earth working plow member, an upright standard rigid with and extending upwardly from said plow member, said standard having its upper end pivoted in the beam for permitting axial turning of said standard on a vertical axis whereby lateral swinging movement of said plow member may be had, a land side rigid with and extending rearwardly from said standard, an upright post rigidly secured upon the heel of said land side and having a reduced upper end portion in the form of a bolt, said post engaging the under surface of said beam, said beam having an arcuate slot concentric with the axis of the standard and through which said bolt extends, and a nut threaded upon the upper end of said bolt and adapted to be screwed against the upper face of the beam for retaining the plow member, standard and post in laterally swung adjusted positions.

1,400,769. DEVICE FOR RETAINING THE SHAPE OF HATS. FREDERICK LIONEL RAPSON, Liverpool, England. Filed Sept. 16, 1919. Serial No. 324,148. 3 Claims. (Cl. 2—108.)



1. A device of the character described comprising a clip member shaped to fit transversely across and around a depression in the crown of a hat, as set forth, a pair of arms on each side of said clip member adapted to extend longitudinally along said depression and engage between them the depressed portion of the crown, as described, means on the clip member to engage in the material of the hat, and curved members arranged upon the ends of the said arms to retain the front and rear of the crown of the hat in position.

1,400,770. DISPENSING APPARATUS. JOHN R. SCALES, Indianapolis, and LORAIN M. WILSON, Bloomington, Ind. Filed Apr. 21, 1921. Serial No. 463,352. 12 Claims. (Cl. 221—102.)

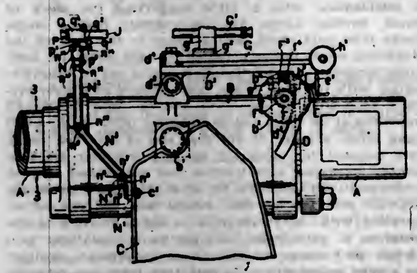


1. In dispensing apparatus the combination with a hopper and expelling means mounted for movement within the hopper, of means for supporting an inverted container above the hopper, and means actuated by the operation of the expelling means for cutting material from the exposed surface of the contents of the inverted container and directing the same into the hopper.

1,400,771. DUPLICATING PROCESS. AISIK SCHAPIRO, Berlin, Germany. Filed May 21, 1919. Serial No. 298,812. 1 Claim. (Cl. 101—149.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

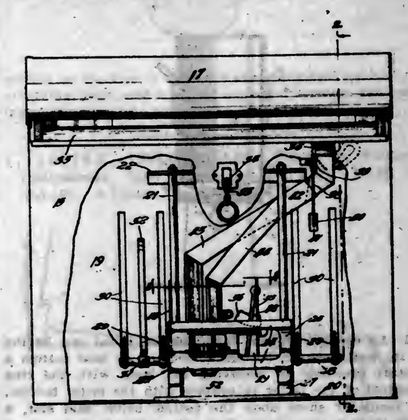
The process which consists in printing fatty colors from hectographic layers containing glycol.

1,400,772. APPARATUS FOR TESTING THE SIGHTING DEVICE OF ORDNANCE. FRIEDRICH SCHLETH, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 8, 1920. Serial No. 408,997. 11 Claims. (Cl. 33—46.)



1. An arrangement for testing the sighting apparatus of ordnance having a gun barrel, a gun carriage and sighting telescope said arrangement comprising an auxiliary telescope, means for mounting said auxiliary telescope on said gun carriage for angular adjustment to position its optical axis parallel with the longitudinal axis of the gun barrel and adjacent the sighting line of the sighting telescope when the latter is similarly adjusted.

1,400,773. COIN-OPERATED VENDING-MACHINE. EDWARD SCHULTZ, Maywood, Ill., assignor, by mesne assignments, to Mrs. E. A. Laughery, Chicago, Ill. Filed Dec. 26, 1919. Serial No. 347,351. 13 Claims. (Cl. 194—98.)



1. In a machine of the kind described, the combination of a movable carriage, a plurality of independent latch members, each adapted to check movement of the carriage, means connecting the several latch members, and adjustable relative to them all, adapted in different positions of adjustment to restrain operation of all the latch members, and coin mechanism adapted to cooperate with any one or more of said latch members to thereby restrain operation of all of them with initial movement of the carriage, substantially as described.

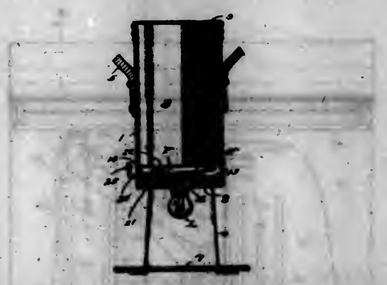
1,400,774. PORTABLE POWER-OPERATED TOOL-HOLDER. CHARLES C. SEABORN, Portland, Oreg. Filed Mar. 20, 1920. Serial No. 367,341. 3 Claims. (Cl. 279—81.)



1. In a portable power operated device, a bearing, a driven shaft rotatably carried by the bearing, the bearing

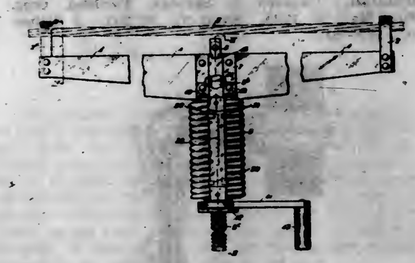
having an enlarged bore therein, a cylindrical block rotatably mounted in the bore and secured to said shaft, a rotatable ring carried by the block, the block being arranged to receive a tool spindle, a dog arranged to engage the tool spindle, and means for actuating the dog by said ring.

1,400,775. ELECTRIC LANTERN. JEROME W. SMITH, Walla Walla, Wash. Filed Feb. 17, 1920. Serial No. 359,456. 4 Claims. (Cl. 240—8.5.)



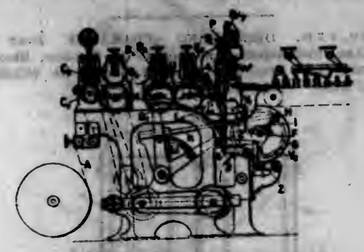
1. An electric lantern comprising a metal can having in its wall near its bottom a slot and in said bottom a central aperture for receiving the lamp with the ring terminal of the latter in contact with the metal bottom, an insulator sheet upon the bottom below said slot, a plug through the center of the sheet for making contact with the axial terminal of said lamp, a metal ring on the sheet, a battery in the can with its poles respectively connected with said plug and ring, and a switch lever for controlling the circuit from the ring to the can, the handle of the lever projecting through said slot.

1,400,776. DEFLECTION-DYNAMOMETER. TEMPLE C. SMITH, East Orange, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Apr. 11, 1919. Serial No. 289,393. 4 Claims. (Cl. 265—1.)



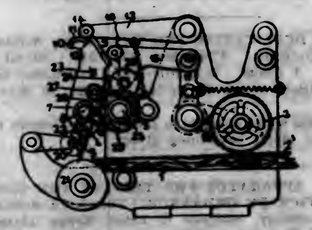
1. A tension dynamometer comprising a member for engaging one side of the strand at a plurality of points and a second member for engaging the opposite side of the strand at an intermediate point, means for preventing rotation of the second member relatively to the first, a tension spring affixed to the first of said members, a threaded connecting device between said spring and said second member, a lever device for operating said connecting device, and means for indicating the extent of the relative movement of said members.

1,400,777. PAPER-CUTTING DEVICE. Gesse Spitzer, Leipzig-Gohlis, Germany. Filed July 8, 1920. Serial No. 394,842. 4 Claims. (Cl. 164—49.)



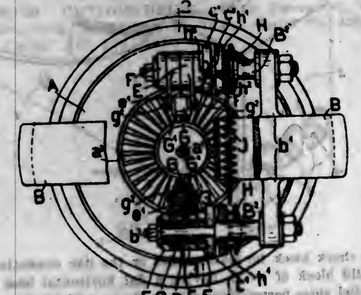
1. In a machine for cutting a continuous paper or the like web, including a transverse cutting device intermittently operated in vertically reciprocating manner, means for feeding the web to said transverse cutting device, actuating means for said feeding means, and means for momentarily arresting the feed movement of said feeding means twice for each complete operation of said actuating means and for feedingly operating said feeding means immediately following each such arrest the different operations being so interdependent and timed that the cutting operation takes place during the momentary stoppages in the paper feed.

1,400,778. SHEET-FEEDING DEVICE. Georg Spitzer, Leipzig, Germany. Filed Nov. 10, 1920. Serial No. 423,063. 3 Claims. (Cl. 271—38.)



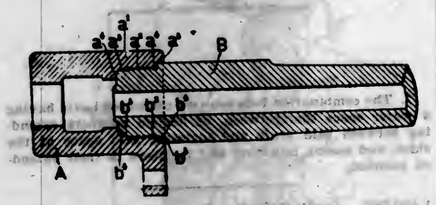
2. In a sheet feeding device of the character set forth, in combination with a table supporting the stack of sheets, friction means for consecutively feeding single sheets from said stack, and a feeler in the path of the advancing sheet, means actuated by said feeler for positively throwing said friction feed means out of operative contact with the sheet stack, comprising a rock lever pivotally supporting at its lower end the said feeler and presenting at its upper end an irregular roller track, a bell crank lever, a roller at the free end of this bell crank lever adapted for actuation by said irregular track, a member journaling said friction feed means and adapted to be positively operated by said bell crank lever for throwing said friction feed means into and out of cooperation with the sheet stack in timed relation to the operation of said feeler, and means for retaining said friction feed means in the raised inoperative position for a brief period after the said rock lever has returned into its position of rest, comprising a second roller on said bell crank lever and a continuously operable cam adapted to coact with said second roller in timed relation to the movement of said rock lever.

1,400,779. BRUSH ARRANGEMENT FOR DISK-SHAPED COMMUTATORS. HERMANN SUNDHAUSSEN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Jan. 15, 1921. Serial No. 437,606. 4 Claims. (Cl. 171—324.)



1. An arrangement of the class described in combination with a motor and a disk-shaped commutator comprising a pair of arms secured to the motor, a pair of pivot bars projecting therefrom, brush holders mounted on said pivot bars, brushes pivotally supported by said holders, said holders being disposed at right angles to the commutator axis and on opposite side thereof and spring means connecting said holders, said spring tending to rock said brushes toward said commutator.

1,400,780. COMPOSITE GUN-BARREL ASSEMBLED BY ROTARY MOTION OF ITS COMPONENT PARTS. JOHN VOLLMER, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Nov. 19, 1920. Serial No. 425,107. 3 Claims. (Cl. 89—16.)



1. A composite gun barrel assembled by rotary motion of its component parts, characterised by the fact that at least one of the two parts to be assembled is coated on its bearing surfaces with a thin coating of metal.

1,400,781. SHOE FOR FURNITURE-LEGS. CHARLES B. WAGNER, Jr., Burlington, Wis. Filed Jan. 28, 1921. Serial No. 440,726. 2 Claims. (Cl. 16—421.)

2. The combination with a furniture leg, of an attaching plate secured against the lower end of the leg and having openings therethrough, an open-ended casing provided at its upper end with lugs passing through the openings in the attching plate and bearing upon the upper side of said plate, an inwardly projecting stop flange at the lower end of the casing, a shoe loosely fitted in the lower end of the casing and having an annular shoulder adapted to rest on said stop flange, an elastic washer



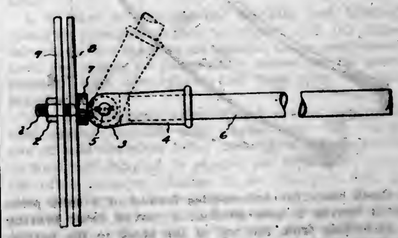
resting on the shoe, a similar washer disposed against the attaching plate, and a spring arranged between and bearing against the two washers.

1,400,782. INSECT-KILLER. FRANK W. WALLACE, Chattanooga Tenn. Filed Mar. 24, 1921. Serial No. 455,189. 5 Claims. (Cl. 43—135.)



1. The combination of a supporting body including a handle at its rear end, a striker pivoted to the front end of said body, a guide on said body, actuating means including a flexible plunger mounted to slide forward for actuating said striker, abutments on said body and plunger to interlock for holding said plunger retracted, a spring for forcing said plunger forward when said abutments are unlocked, and a trigger pivotally mounted on said body and having its upper end portion extending between and laterally of said body and plunger, said trigger being normally inclined to the length of said plunger so that its actuating manipulation forces said plunger away from said body and thereby unlocks said abutments.

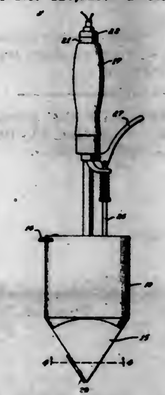
1,400,783. PLATE-PULLER. ALBERT J. ABERNATHY, Seattle, Wash. Filed Sept. 2, 1919. Serial No. 321,257. 1 Claim. (Cl. 29—84.)



A plate tightener of the class described comprising a shank provided at one end with a bifurcated head portion having a circularly rounded end surface and at its opposite

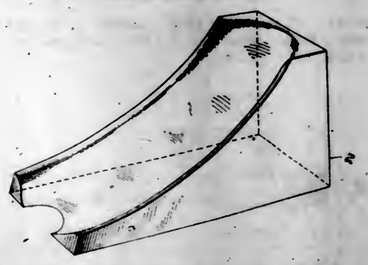
end having a socket therein an actuating lever applied to said socket, a screw threaded bolt having its head pivotally mounted between said bifurcation eccentrically with respect to said rounded surface, said bolt being insertible through alined holes in plates to be tightened together; a nut adjustable on said bolt after insertion for holding the outer end thereof against egress from said plates and whereby when said lever is actuated the eccentric action of said head will urge said plates together.

1,400,784. SOLDERING-IRON. CHARLES B. ARCHER, Chapman, Ala., assignor, by mesne assignments, to Norman F. McGowin, Chapman, Ala. Filed Oct. 19, 1920. Serial No. 417,929. 1 Claim. (Cl. 219—27.)



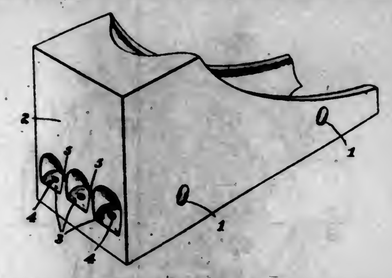
A soldering iron comprising a hollow member closed at each end and provided with a filling opening at one end and a soldering point at its opposite end and defining a solder container, said soldering point having a discharge opening therein, a handle secured to the hollow member, a valve for controlling the discharge opening, a valve stem extending from the valve, a spring actuated operating lever secured to the handle and connected to the valve stem for operating said valve and a heating element within the hollow member.

1,400,785. CHOCK-BLOCK FOR AUTOMOBILES. FRED ARN, Chattanooga, Tenn., assignor to J. M. Card Lumber Co., Chattanooga, Tenn., a Corporation of Tennessee. Filed Aug. 23, 1919. Serial No. 319,362. 1 Claim. (Cl. 188—32.)



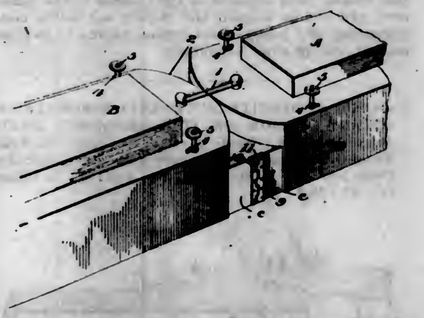
A chock block for automobiles formed of a solid piece of wood having a base portion, a curved front bearing face extending from the top of the block to the bottom supporting face of the base portion and a rearwardly extended heel inclining in one plane downwardly and backwardly from the upper to the lower face of the block, substantially as described.

1,400,786. CHOCK-BLOCK. FRED ARN, Chattanooga, Tenn., assignor to J. M. Card Lumber Co., Chattanooga, Tenn., a Corporation of Tennessee. Filed Aug. 9, 1920. Serial No. 402,126. 1 Claim. (Cl. 188—32.)



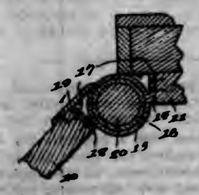
A chock block for automobiles or the like consisting of a solid block of wood, having a flat horizontal base and parallel sides perpendicular to the base, said block having in its parallel sides a plurality of nail openings inclining inwardly, downwardly and rearwardly, the said block having a curved front face adapted to bear upon the tire of the automobile, substantially as described.

1,400,787. BOAT. CARL J. EAMS, St. Louis, Mo. Filed Jan. 24, 1921. Serial No. 439,421. 7 Claims. (Cl. 114—77.)



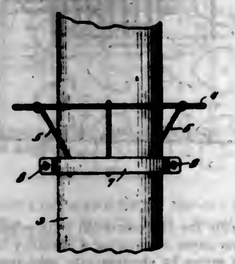
1. The combination between two connected boats having a water space therebetween, of flexible members extending between said boats and inclosing said space at the sides, and means retaining said members in their extended position.

1,400,788. DOOR-HINGE. FREDERICK J. W. BARROW, Chicago, Ill. Filed May 14, 1921. Serial No. 469,429. 3 Claims. (Cl. 16—128.)



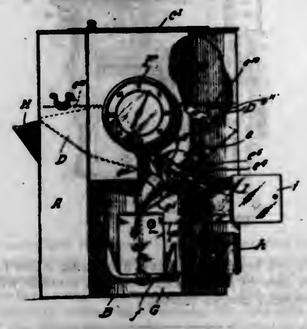
3. A hinge comprising a pair of attaching plates having matching knuckles adapted to receive a pintle, said knuckles being offset laterally with respect to the plates, each of said plates extending tangentially with respect to its knuckles and having a length from the front to the rear which is less than the diameter of the knuckles, to locate the knuckles partly opposite the face of the plate and partly projecting beyond the plate.

1,400,789. CLOTHES-DRIER. GUST BERGQUIST, Portland, Oreg. Filed Nov. 27, 1920. Serial No. 426,869. 1 Claim. (Cl. 126—241.)



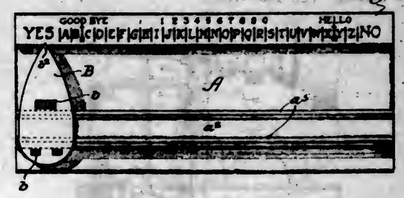
A clothes drier including a resilient wire strand one end of which is enlarged to provide a tapering socket, said strand being flexed about a heating body but spaced therefrom and having its other end formed to complement the first said end to be sprung into the latter, supporting arms each of which has one end convoluted on said strand and the opposite end inclined inwardly toward the heating body and then deflected downwardly into parallelism with the latter, and semi-circular straps, embracing the deflected ends of the arms and equipped with bolts adjustable to relatively move the straps for clamping said arms snugly into engagement with the heating object.

1,400,790. SUGAR DISPENSING AND WEIGHING CONTAINER. HARRY M. BIGELOW, Milwaukee, Wis. Filed Mar. 4, 1920. Serial No. 363,201. 2 Claims. (Cl. 265—68.)



1. A dispensing and weighing container provided with upper and lower compartments for storing sugars of different grades, a weighing scale attached to the outer side of the container, a pan depending from the scale, the container being recessed below the scale to permit the free movement of the pan of the scale, the upper compartment bing provided with an inclined plate forming the bottom thereof, a duct leading from the said plate and having its open end positioned to discharge sugar from the upper compartment directly into a bag placed in the pan of the scale and a gate near the end of the duct.

1,400,791. OUIJA-BOARD. HARRY M. BIGELOW, Milwaukee, Wis. Filed May 17, 1920. Serial No. 382,082. 5 Claims. (Cl. 46—41.)



1. A ouija board having a table upon which are placed the indicia of expression, a raised guide forming a part of the board proper, and a movable index having a dovetail engagement with and directed by the guide with the point thereof in proximity to the expression indicia.

1,400,792. PULSATOR FOR MILKING-MACHINES. WILLIAM ABRAM BLACKMORE, Christchurch, New Zealand. Filed Nov. 24, 1916. Serial No. 133,102. 3 Claims. (Cl. 31—101.)

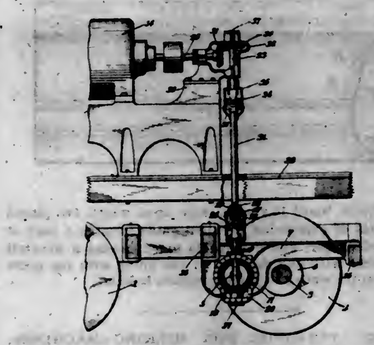


1. In a claw pulsator, the combination with a lower chamber maintained under continuous vacuum, of an upper chamber mounted thereon, and provided with four pulsation passages communicating one with each of the four teat-cups comprising the set, the said chamber being formed with a bore or seating and having four ports communicating between the said bore and the four said pulsation passages respectively and a port or ports communicating between the said bore and the vacuum of the lower chamber, and a rotor adapted to be received by said bore or seating, and to be rotated by means of a flexible shaft, said rotor being so formed as to place the said four ports alternately in communication with the said vacuum port or ports and the atmosphere alternately in such a manner as to produce four separate pulsations in which one of the said pulsation passages is brought into communication with the vacuum at each quarter of a revolution of the rotor.

2. A claw pulsator having separate and independent pulsation passages adapted to connect with the respective teat-cups and a chamber maintained under continuous vacuum, and means for successively connecting the pulsation passages with atmosphere and then with the vacuum chamber.

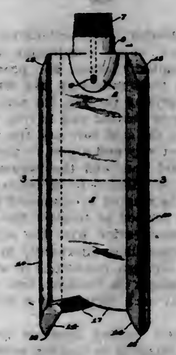
3. A claw pulsator comprising a casing, a partition in said casing dividing said casing into two chambers, one of said chambers being maintained under continuous vacuum and adapted to receive the milk from teat-cups, the other chamber adapted to be connected with pulsation chambers of the teat-cups and with the atmosphere, a rotor in the last mentioned chamber having ports formed therein and coöperating with ports formed in said partition, means for continuously rotating said rotor whereby said ports therein will be caused to actuate to successively connect each pulsation chamber with atmosphere and then with the vacuum chamber.

1,400,793. MEANS FOR DRIVING DYNAMOS FROM CAR-AXLES. WILLIAM F. BOUCHÉ, Lancaster, N. Y., assignor to Gould Coupler Company, a Corporation of New York. Filed July 14, 1919. Serial No. 310,710. 6 Claims. (Cl. 105—105.)



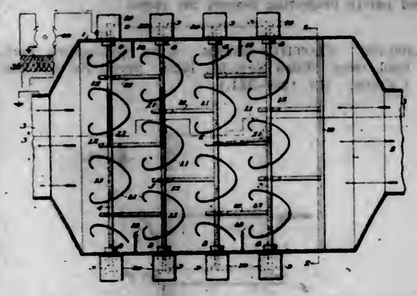
6. In an arrangement of the class described the combination of a car and its axle, a jack shaft normally parallel to the axle, a bearing for the jack shaft pivoted to swing about an axis at right angles to the shaft, another bearing for the jack shaft and means for moving it to adjust the position of the shaft with respect to the axle, said means including a screw threaded member and coöperating nut member, flexible means for driving the shaft from the axle, a dynamo and means for driving the dynamo from the jack shaft.

1,400,794. WELL-DRILLING BIT. OLIVER J. BOURGOIS, Covington, Okla. Filed Feb. 2, 1920. Serial No. 355,861. 2 Claims. (Cl. 255—61.)



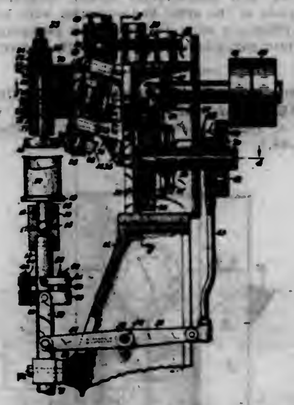
1. A drill bit comprising a flat elongated body having oppositely facing cutting edges at the bottom, said cutting edges being inclined downwardly from the longitudinal axis of the body to form a crotch, the ends of said body having extensions to form side wings which project laterally in opposite directions from the body, and project at the bottom below the plane of the aforesaid cutting edges, said projecting bottom portions of the wings having oppositely facing cutting edges which extend laterally with respect to and are in advance of the first-mentioned cutting edges, and form continuations thereof, and said projecting portions of the wings being beveled at the bottom in the direction of their outer edges to produce cutting points at the bottom thereof, and the aforesaid cutting edges of the wings extending downwardly from the first-mentioned cutting edges to the points.

1,400,795. APPARATUS FOR THE ELECTRICAL TREATMENT OF GASES. LEON BRADLEY, East Orange, N. J. Filed June 20, 1918. Serial No. 240,046. 15 Claims. (Cl. 183—7.)



1. Apparatus for the electrical separation of suspended particles from gases comprising a plurality of treater units connected in series by electrostatic induction.

1,400,796. CAN-HEADING MACHINE. JULIUS BRENINGER, Fairfield, Conn., assignor to The Max Ams Machine Company, New York, N. Y., a Corporation of New York. Filed May 6, 1919, Serial No. 294,885. Renewed Sept. 26, 1921. Serial No. 503,470. 30 Claims. (Cl. 113—23.)

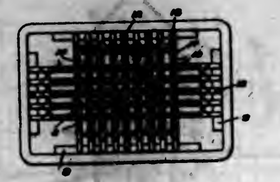


1. In a can heading machine, a seaming roller having an operative face of substantially conical contour with a spirally arranged groove therein.

1,400,797. APPARATUS FOR WASHING AND STERILIZING BOTTLES. FREDERICK S. BURNHAM, Wellesley, Mass. Filed Dec. 19, 1916. Serial No. 137,863. 6 Claims. (Cl. 141—7.)

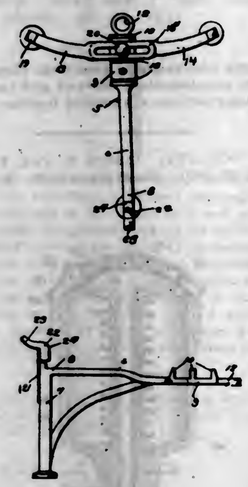
3. In a device of the character described, the combination of a container, distributing means for a washing or sterilizing fluid therein, said means comprising a plurality of movable nozzles, sets of movable members arranged transversely to each other and engaging said nozzles to move the same in different directions substantially at right angles to each other and to maintain the same in spaced

relationship, and means for simultaneously adjusting the members of either of said sets independently of those of



the other to simultaneously and proportionately vary the spacing of said nozzles.

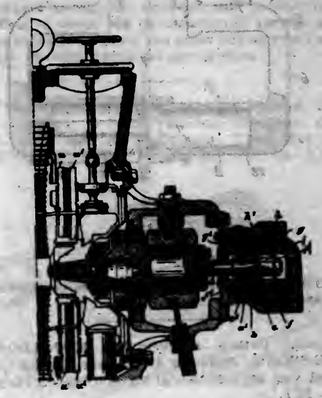
1,400,798. CONTAINER-HOLDER. BROOKS BUTLER, Maple Valley, Wis. Filed May 20, 1921. Serial No. 471,062. 5 Claims. (Cl. 248—41.)



1. A container holder of the character described comprising supporting members, each of said members having a leg extending from one end, the opposite end of one of said members being enlarged and provided with a plurality of laterally extending channels, the opposite end portions of the remaining members being slotted and adapted to overlap each other substantially in parallel relation, said overlapping portions being disposed in one of said channels, and means for connecting said members to each other.

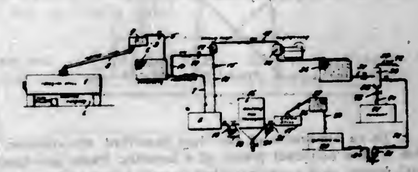
1,400,799. TURBINE. WILLIAM CHILTON, Loughborough, England, assignor of one-half to The Brush Electrical Engineering Company Limited, Loughborough, Leicestershire, England. Filed June 6, 1918. Serial No. 238,567. 4 Claims. (Cl. 253—16.5.)

1. In radial flow turbines of the Ljungstrom type the combination of an axial thrust stationary bearing for the end of the rotor shaft with labyrinth disks having grooves



the cross section of which shows two parallel straight lines substantially as described.

1,400,800. ART OF CRACKING HYDROCARBONS. JOHN W. COAST, Jr., Tulsa, Okla., assignor to the Process Company, Tulsa, Okla., a Corporation of Maryland. Filed Sept. 27, 1917. Serial No. 193,473. 1 Claim. (Cl. 196—26.)

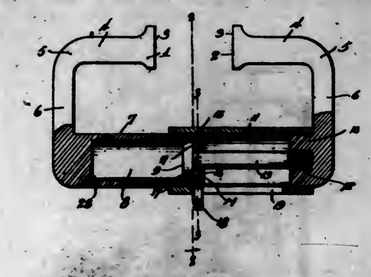


In the art of making gasolene, the method which comprises cracking and distilling hydrocarbons, subjecting the resultant distillate to a vacuum so as to withdraw the lightest and most volatile fractions in the form of gas, thereafter refining the distillate, and subsequently returning said gas to the refined distillate by commingling the gas with said distillate and maintaining the mixture under pressure so as to blend the refined hydrocarbons with the lighter and more volatile fractions.

1,400,801. PNEUMATIC AND HYDRAULIC CLAMP. BENJAMIN P. COHEN, Augusta, Ga. Filed Nov. 1, 1919. Serial No. 334,956. 4 Claims. (Cl. 144—289.)

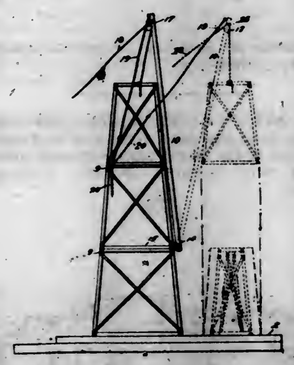
1. A clamp of the character specified comprising opposed jaws having adjustable telescopic sections, one of said sections comprising a cylinder and the other constituting piston means operable in the cylinder for extending or

contracting the jaws, said piston means including a steadying member having a slidable bearing against the wall of



the cylinder, and movable longitudinally thereof as the jaws are adjusted.

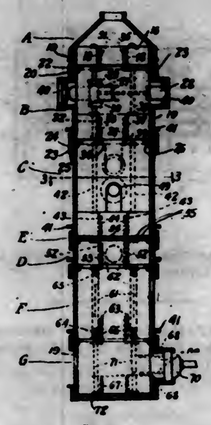
1,400,802. TRUCK-SUPPORTED KNOCKDOWN CIRCLE-SWING. WILLIAM A. COLGATE, Garden City, N. Y. Filed Aug. 26, 1920. Serial No. 406,066. 3 Claims. (Cl. 46—27.)



1. In an apparatus of the class described, the combination with a sectional tower, of a hoisting frame provided with hooks, said hooks attached to said tower and permitting the hoisting frame to be removed against the tower or swung, at its upper end, away from the tower, a pulley and a hoisting cable attached to the upper end of the hoisting frame, said cable adapted to be attached to a section of the tower for lifting and swinging the section through the hoisting frame for positioning the section, and anchoring or holding means attached to the frame and a portion of the tower.

1,400,803. ELECTRICAL APPARATUS. DAVID CONLAN, Jr., Brooklyn, N. Y. Filed Dec. 24, 1920. Serial No. 432,983. 7 Claims. (Cl. 173—334.)

1. A continuous electrical outlet comprising a sectional tubular casing, of short casing sections connected by means providing readily separable water-tight joints, insulating bases secured in said casing sections with their opposite ends exposed at the opposite ends of the respective sections, circuit-continuing connections extending through said bases and complementary connecting-in contacts and through-circuit terminals at the opposite exposed ends of the individual bases and in circuit with said through-connections, the water-tight connecting means of the casing



sections being constructed to enable the electrical engagement of the complementary contacts and terminals when adjacent casing sections are coupled together.

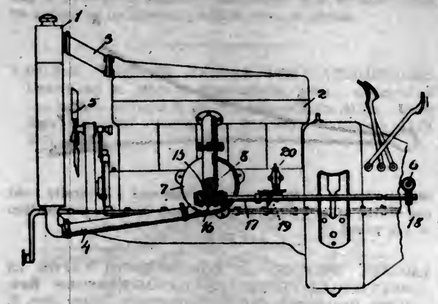
1,400,804. OIL-CUP. CLAUDE E. COX, Detroit, Mich. Filed Jan. 29, 1921. Serial No. 441,027. 6 Claims. (Cl. 184—88.)



6. The combination with an oil cup body having an internal standpipe rising above normal oil level, a spherically-domed head having an opening alining with said standpipe and another opening between the pipe-axis and the body-wall, and a parti-spherical cap pivoted to the dome at a point spaced from said openings to permit the cap to pivotally swing over, or away from, said openings.

1,400,805. COOLING SYSTEM FOR AUTOMOBILE-ENGINES. RALPH F. CRAWFORD, Salina, Kans. Filed May 12, 1921. Serial No. 468,952. 2 Claims. (Cl. 123—175.)

1. The combination with an automobile having a circulatory thermo-siphon engine cooling system and a supplemental power take-off device including a pulley shaft, of a rotary pump interposed in said cooling system, and



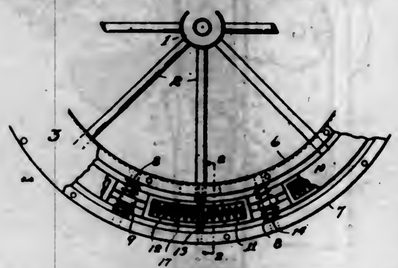
means including a worm gear for driving said pump from said pulley shaft.

1,400,806. SHOE-UPPER AND METHOD OF FINISHING THE EDGES THEREOF. DAN DANIELS, Haverhill, Mass., assignor to Louis H. Harriman, trustee, Haverhill, Mass. Filed Mar. 3, 1921. Serial No. 449,484. 7 Claims. (Cl. 36—45.)



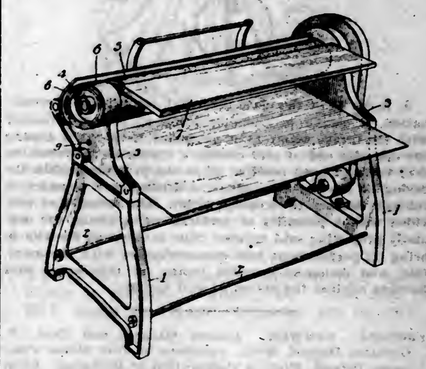
1. The method of finishing the edges of shoe uppers which consists in attaching a galloon, having a corded edge, to the outer side of the upper by a row of stitches which pass through the galloon between its corded and its opposite edge and through the upper at an approximately uniform distance from the edge thereof, inwardly folding the edge portions of the upper with the galloon thereon, on a line directly beneath the corded edge of the galloon, placing a lining on the inwardly turned galloon and stitching them together by a line of stitches which pass through the galloon closely adjacent its corded edge.

1,400,807. VEHICLE-WHEEL. WILLIAM H. DUNDORE, Reading, Pa. Filed July 22, 1920. Serial No. 398,238. 2 Claims. (Cl. 152—37.)



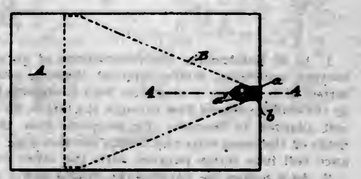
1. In a resilient vehicle wheel, the combination of a tire having a central annular opening, said tire being formed of an inner ring member, an outer ring member and two side, annular plates, with a hub having spokes, and an annular ring member carried by the outer ends of the spokes, said annular ring lying in the annular opening of the tire; a series of radially arranged springs carried by the said annular ring member and bearing against the surfaces of the inner and outer tire members; a series of circumferential springs alternately arranged and located within the said annular ring; flat members slidably located in the annular ring member and upon which the radially arranged springs are mounted, said annular ring having pockets to house the circumferential springs and rods passing through the inner and outer tire members and against which the circumferential springs bear.

1,400,808. IRONING-MACHINE. ALVA J. FISHER, Chicago, Ill., assignor to Hurley Machine Company, Chicago, Ill., a Corporation of Illinois. Filed May 24, 1920. Serial No. 383,649. 3 Claims. (Cl. 68—9.)



2. In an ironing machine, the combination of a frame having end bearing brackets, a main ironing roll mounted within said brackets and located therebetween, said roll having a shaft extending at one end beyond its bracket and freely exposed and unsupported at its outer end, a separate small roll on the extended end, and a coöperating swinging pressure element movable relatively to both of said rolls as a unit.

1,400,809. ENVELOP-OPENER. EDWARD R. FLEMING, Baltimore, Md. Filed Jan. 21, 1921. Serial No. 438,978. 1 Claim. (Cl. 229—85.)



An envelop opener combined with an envelop having an incision at one end thereof, said opener consisting of a body of thin material concealed within the envelop and having the form of an isosceles triangle one of the sides or base of which is shorter than its equal sides, the latter converging gradually toward one end of the envelop so as to provide acute cutting edges adapted to easily cut their way through the end of the envelop, and having at the apex of said converging sides a reduced extension protruding through said incision, said extension being turned back so as to overlie the end portion of the envelop and having its exposed surface colored unlike the color of the envelop, together with releasable means for securing said extension to the side of the envelop, whereby said exten-

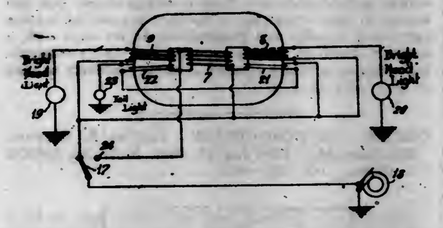
sion is adapted to serve as a means for pulling the opener out of the envelop and to attract attention thereto by reason of the contrasting colors.

1,400,810. DEVICE FOR CONTROLLING THE SPEED OF AUTOMOBILE VEHICLES. ANTOINE GAILLARD, Marseille, France. Filed May 20, 1920. Serial No. 382,751. 6 Claims. (Cl. 48—180.)



6. A device of the class described, comprising in combination, a casing in communication at one end thereof with the intake manifold of an engine, a valve for closing the opposite end of said casing, a spring for maintaining said valve in open position when the pressure within the casing is substantially equal to atmospheric pressure, a tubular member telescoping within said casing and provided with a plurality of perforations, a spring for normally projecting said member from said casing thereby to bring its perforations into communication with the manifold, and manually operable means for telescoping said member against the action of said spring.

1,400,811. DIMMER. JOSEPH GALAMB and EARL P. OSWALD, Detroit, Mich., assignors to Ford Motor Company, Detroit, Mich., a Corporation of Michigan. Filed May 20, 1918. Serial No. 235,701. 9 Claims. (Cl. 171—97.)



1. In an automobile, the combination of an alternating current generator, lamps supplied thereby, coils each in series with a lamp, a magnetic field energised in common by the coils to retard flow through the latter, an impedance coil adapted to increase the magnetic flow through the fields of the lamp coils and means for throwing the impedance coil into series parallel with the other coils.

2. As a means for varying the candle power of lighting systems for motor vehicles, and wherein the headlight candle power varies from that of the tail light, means for establishing a circuit with the two headlights in parallel with each other and with the tail light, and an impedance coil having a core carrying windings in series with the several lights, said core also carrying a winding adapted to be selectively introduced into said circuit in electrical advance of the individual lamp windings.

1,400,812. HAIR-CURLING DEVICE. JOSEPH GOLDSMITH, Jr., Chicago, Ill. Filed Dec. 22, 1920. Serial No. 432,406. 7 Claims. (Cl. 132—41.)

7. A device of the class described, comprising a hair curler having two flat resilient arms, a slidable guard member on one of said arms having a perforation, a pair of spaced-apart stops on said arm adapted to restrict sliding movement of the guard member and a laterally bent end on the other arm adapted to enter into the perforation in the guard.



1,400,813. PROCESS OF COMPRESSING VAPOR IN MULTISTAGE CENTRIFUGAL COMPRESSORS. BENJAMIN GRAEMIGER, Zurich, Switzerland. Filed Nov. 3, 1920. Serial No. 421,578. 4 Claims. (Cl. 230—6.)



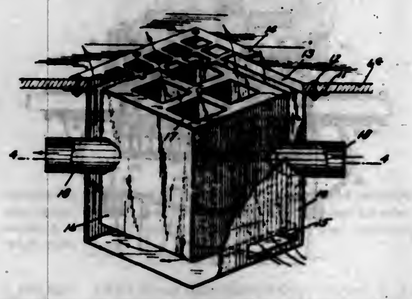
1. A process for compressing vapor in multi-stage centrifugal compressors, comprising introducing into the compressor behind at least one of the runner wheels such a quantity of a liquid of the same nature as the vapor as to obtain a compressed vapor that does not contain more than three per cent. by weight of liquid.

1,400,814. VENDING-MACHINE. ALBERT D. GROVER, New York, N. Y., assignor, by mesne assignments, to Automatic Corporation, a Corporation of New York. Original application filed May 11, 1915, Serial No. 27,302. Divided and this application filed Oct. 29, 1915. Serial No. 58,542. 21 Claims. (Cl. 211—8.)



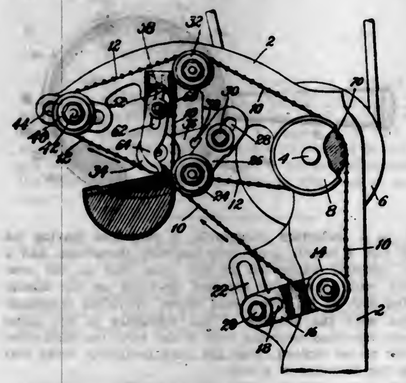
21. In a dispensing apparatus, the combination of a casing providing a container, for the articles to be dispensed, an operating member movable from a normal position, means operated by said member when moved from its normal position to eject an article from said container, a spring arranged to return said member to its normal position when moved therefrom and released, and a pneumatic cushion cushioning said member upon its return to its normal position by said spring.

1,400,815. HOT-AIR HEATER FOR AUTOMOBILES. BERNHARD E. HAGEN, Minneapolis, Minn., assignor of one-half to Willard E. Smith, Minneapolis, Minn. Filed July 22, 1919. Serial No. 312,536. 6 Claims. (Cl. 257—136.)



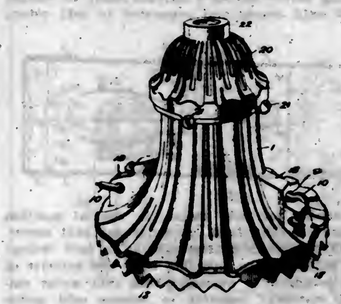
1. A hot air heater for automobiles comprising an outer box-like casing, an inner box-like shell spaced from the walls and bottom thereof, and having branch exhaust pipe connections extended through said outer casing, the said inner shell having angular vertical flues, and a grating applied at the top of said heater casing and adapted to cover the floor in the automobile.

1,400,816. LASTING-MACHINE. JOHN B. HADAWAY, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 13, 1918. Serial No. 239,760. 58 Claims. (Cl. 12—2.)



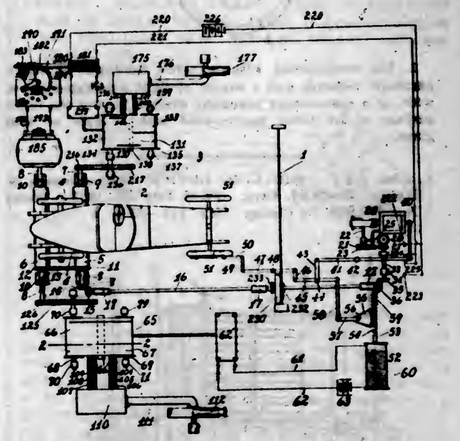
1. A lasting machine having, in combination, wiping means for overlaying the margin of a shoe upper upon the bottom of the sole, said wiping means being constructed and arranged for engagement with the overlaid margin throughout its width, and means for moving said wiping means uninterruptedly in a direction inwardly of and over the shoe bottom.

1,400,817. LIGHTING UNIT. CROMWELL A. B. HALVORSON, Jr., Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Mar. 12, 1921. Serial No. 451,665. 6 Claims. (Cl. 240—106.)



1. A light fixture comprising a light source, a body of insulating material formed with a bell shaped, open mouthed central chamber in which the light source is located, and a reflecting surface formed on said body at the edge of said chamber and located slightly above the light source whereby the rays reflected receive a wide downward spread.

1,400,818. THEATRICAL AUTOMOBILE RACE. ELMER H. HERBERT, Oakland, Calif. Filed Feb. 15, 1921. Serial No. 445,237. 7 Claims. (Cl. 46—70.)

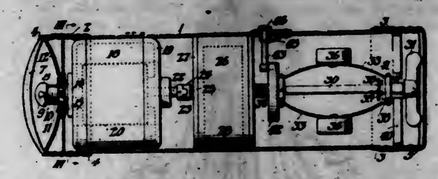


1. In combination, a screen, a moving picture projector, an automobile in front of said screen, means whereby the projector is driven by the automobile, means for turning the projector, means operated by turning the front wheels of the automobile to turn said projector and shift the picture back to their central position, and means for applying resistance to the automobile which tends to reduce its speed and the speed of the projector.

1,400,819. PORTABLE ELECTRIC LAMP. JOSEPH W. HIGGINS, Bordentown, N. J. Filed Jan. 26, 1920. Serial No. 353,973. 4 Claims. (Cl. 240—8.5.)

3. In a portable electric lamp, the combination with a cylindrical tubular casing; of a reflecting diaphragm

in coaxial relation with said casing; an incandescent lamp bulb, detachably mounted in coaxial position in said diaphragm and casing; an electric generator in said casing, having a rotor in coaxial relation therewith; a spring motor having a driving shaft in coaxial relation with said casing and connected to said rotor;



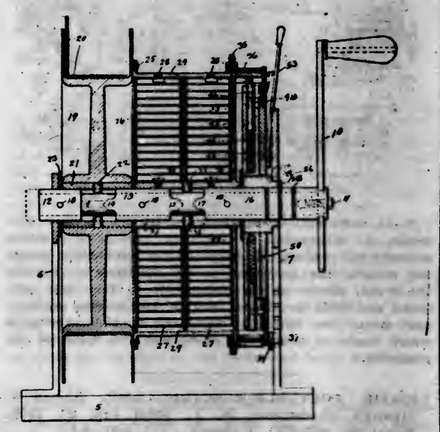
a winding handle for said motor, in coaxial position in said casing; a centrifugal governor for said motor, having a rotary arbor in coaxial position in said casing; and a push button device, operable from the exterior of said casing, arranged to normally hold said motor stationary, but manually movable to release said motor and thereby energize said lamp.

1,400,820. HEADLIGHT. PERCY JACKSON HIGGS, New York, N. Y. Filed Apr. 1, 1918. Serial No. 225,960. 3 Claims. (Cl. 240—48.4.)



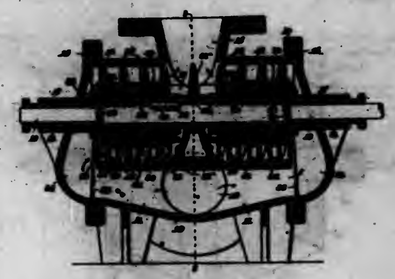
1. The combination with a vehicle headlight having a parabolic reflector and a source of light associated therewith, of a transparent headlight window having the inner surface of its lower half coated with a layer of opal glass.

1,400,821. TROLLING DEVICE. CHRISTOPHER S. HURTT, Portland, Oreg. Filed July 26, 1920. Serial No. 398,858. 8 Claims. (Cl. 242—85.)



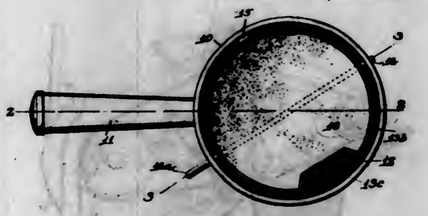
1. In a trolling device, the combination of a frame means, a shaft slidable into an in position, a neutral position and an out position on said frame, a fishing reel mounted on said shaft and having a means for rotatably engaging same in the in position only, a spiral spring mounted on said shaft, a sleeve on said shaft within said spring adapted to rotatably engage said shaft in either its in or out position, and a barrel containing said spring and forming a part of said reel.

1,400,822. PUMP. JUSTUS B. KINNEY, Allston, Mass. Filed Sept. 1, 1920. Serial No. 407,432. 7 Claims. (Cl. 253—181.)



1. In a machine of the class described, the combination of a casing having inlet and outlet openings; a revoluble shaft in said casing; a plurality of members having abutting hubs secured to and revoluble with said shaft on opposite sides of said outlet opening, each member having a plurality of helical blades extending to the wall of a cylindrical portion of said casing; and spiders surrounding said hubs and having separated radial arms fixedly secured in the cylindrical portion of said casing between said bladed members.

1,400,823. COLLECTION-RECEPTACLE. CHARLES J. KOSNIC, New Baltimore, Mich. Filed Feb. 21, 1921. Serial No. 446,851. 6 Claims. (Cl. 232—57.)

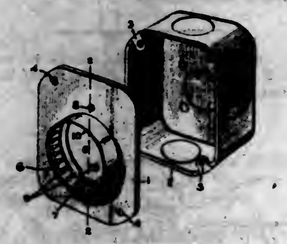


1. In a collection receptacle, a container having an open top, a handle projecting laterally therefrom, and a tray tiltingly supported in the open end of the container, said tray being recessed inwardly on the unsupported side of its pivot, said recess providing communication with the interior of the container in the plane of the collection-receiving face of the tray, the dimension of the recess inward from the tray periphery being less than the diameter of a coin.

1,400,824. ELECTRICAL FITTING. HOMER G. KNOOHUIZEN, Englewood, N. J., assignor to General Electric Company, a Corporation of New York. Filed Oct. 18, 1920. Serial No. 417,642. 2 Claims. (Cl. 247—20.)

1. The combination of a metallic outlet box cover having an opening therein for electric conductors leading from the outlet box through the cover, a metallic ring

member provided with means for engaging and supporting an electric fixture shell located on the outside of said cover concentrically with the opening therein, said ring member being provided with a plurality of lugs integral



therewith projecting through said opening and secured to the inner side of said cover, whereby the ring member is secured in good mechanical and electrical connection with said cover.

1,400,825. LADY'S UNDERGARMENT. OLIVER A. LAU, Hamburg, Pa. Filed Apr. 11, 1921. Serial No. 460,324. 2 Claims. (Cl. 2—144.)



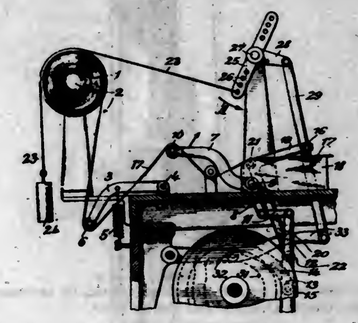
1. A ladies' undergarment including an integral body to envelop the bust, waist and hips and extending downwardly at the rear to the knees, the lower portion of the front of the garment being V-shaped with the apex terminating at the crotch, and inserts secured to the margin of said V-shaped portion and to the lateral margins of the downwardly extended portion at the rear to provide legs.

1,400,826. CLEANSING AND POLISHING COMPOSITION. ALBERT A. LECOMTE, Baltimore, Md. Filed May 12, 1921. Serial No. 469,040. 3 Claims. (Cl. 134—27.)

2. A cleansing and polishing composition comprising a petroleum oil, methyl alcohol, water, acetic acid, butter of antimony and oil of cajeput.

1,400,827. APPARATUS FOR UNWINDING PAPER STRIPS FROM ROLLS OF PAPER IN WRAPPING-MACHINES. RICHARD LEUMANN, Chailly-sur-Lausanne, Switzerland. Filed Apr. 7, 1921. Serial No. 459,255. 6 Claims. (Cl. 242—75.)

2. In an apparatus for unwinding the strip of paper from a roll of paper in wrapping machines, in combination, a brake band loaded at one end and coöperating with the roll of paper, drawing means for effecting the unwinding of the strip of paper, and a driving member operatively connected to the brake band and simultaneously actuated with said drawing means for drawing the brake band first forward against the action of the load



thereon and moving the roll of paper in the unwinding direction and then allowing the load on the brake band to produce its effects uncounteracted so that the brake band comes into operation.

1,400,828. VEHICLE-WHEEL WITH PERMANENT RIM OR METAL FELLY. JAMES C. LEWIS, Portland, Me. Filed Aug. 5, 1920. Serial No. 401,468. 9 Claims. (Cl. 301—23.)

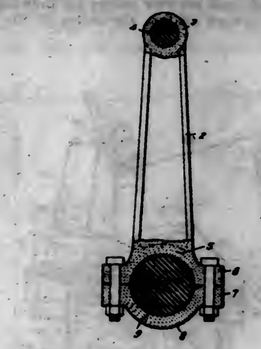


1. A vehicle wheel, a permanent rim encircling said wheel, a demountable rim encircling said permanent rim in contact therewith, said permanent rim being provided with an annular groove, a split locking ring located in said annular groove, a lug extending inwardly from each of the adjacent ends of said locking ring respectively, a pair of links, a pivot connecting one end of each link to one of said lugs, said links extending from said pivot beyond the other of said lugs, a second pivot on the opposite ends of said links, a lever pivoted intermediate its ends upon said second pivot, one end of said lever being adapted to engage said last named lug, the other end of said lever being adapted to be swung outwardly to contract said split ring until its median point of contact with said last-named lug passes inwardly beyond a straight line connecting the median lines of said pivots.

1,400,829. PRODUCTION OF CONNECTING-RODS AND SIMILAR MACHINE PARTS. JOHN OAKLEY, Springfield, Mass., assignor to Baush Machine Tool Company, a Corporation of Massachusetts. Filed May 29, 1920. Serial No. 385,174. 6 Claims. (Cl. 74—17.)

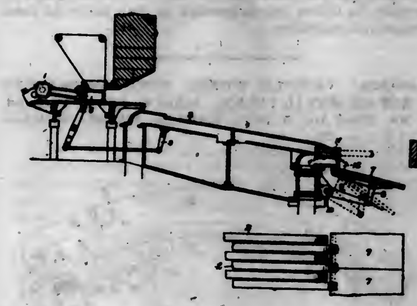
1. A connecting rod or the like made of an aluminum

alloy of the class described consisting mainly of aluminum so as to be approximately as light as this metal and



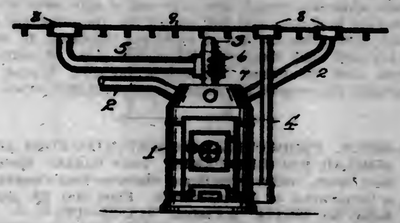
which has been worked and heat-treated to increase its density, tensile strength and elastic limit.

1,400,830. BOILER-FURNACE. THOMAS A. PEEBLES, Pittsburgh, Pa. Filed Aug. 28, 1917. Serial No. 188,654. Renewed July 10, 1920. Serial No. 395,379. 3 Claims. (Cl. 110—38.)



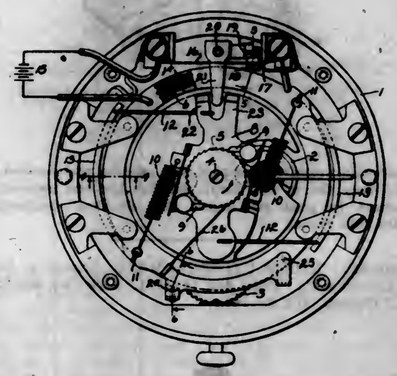
1. In a furnace the combination of fuel supporting members consisting of two series of longitudinal bars, means for reciprocating the bars of one series in unison and relative to the bars of the other series, an ash supporting member operatively associated with and adapted to be reciprocated by the movable series relative to the other bars, whereby the latter series of bars would operate to crowd the ashes across the supporting member in the same direction as the feed of fuel into the furnace.

1,400,831. HEATING SYSTEM. ELMER E. SCHELHAMER, Reading, Pa., assignor of one-fourth to Adam P. Hafer, Reading, Pa. Filed Sept. 6, 1921. Serial No. 498,705. 3 Claims. (Cl. 126—99.)



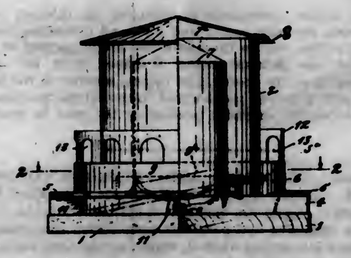
1. A house heating system comprising a furnace, a smoke flue leading therefrom, said flue having one or more perforations therein, a tube leading from an opening in the floor to a point in close proximity to the perforated smoke flue, a box inclosing the perforated portion of the smoke flue and the end of said tube, and a cold air inlet leading from an opening in the floor to a point below the furnace grate, the openings of both said tubes at the floor being provided with closures.

1,400,832. ELECTRIC CLOCK. LOUIS E. SHAW, East Orange, N. J. Filed Dec. 8, 1919. Serial No. 343,194. 16 Claims. (Cl. 58—41.)



16. In an electric clock, a movement having an escapement, electromagnetically-operative actuating mechanism therefor including an electromagnet and a spring adapted to be retensioned intermittently, an interwinding mechanism including a yieldable arm carried by an armature of the electromagnet for engagement with the escapement while the spring is being retensioned.

1,400,833. POULTRY-FEED APPARATUS. FRED T. SKUSE, Kirkland, Wash. Filed Feb. 18, 1921. Serial No. 446,078. 7 Claims. (Cl. 119—55.)

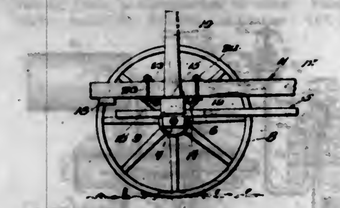


1. A base, tiltable members mounted on the base, platforms secured to said tiltable members whereby depression of the platforms will cause said members to tilt, and a reservoir having an open lower end resting upon said tiltable members and adapted to be elevated by the tilting of said members.

1,400,834. HAYRACK-FASTENER. HOWARD A. SMITH, Montgomery, Iowa. Filed Sept. 8, 1919. Serial No. 322,272. 2 Claims. (Cl. 296—9.)

1. A device of the class described including a sheet metal inverted U-shaped member, upwardly inclined arms

extending from the terminals of the sides of said member and having their upper extremities curved outwardly and



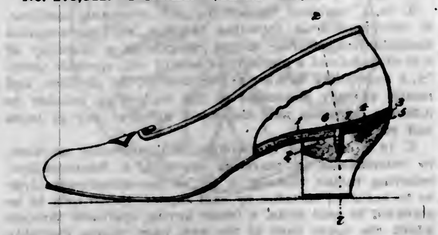
downwardly, and clamping members seating in the concavities of said curved extremities.

1,400,835. AUTOMATIC SAFETY-GUARD. LINTON GREGORY STABLES, Los Angeles, Calif. Filed July 26, 1920. Serial No. 398,870. 5 Claims. (Cl. 74—105.)



1. In an automatic safety guard in combination, a machine tool having a releasing mechanism and adapted to be released to travel through a certain cycle of operation, a guard element pivotally mounted upon the tool and adapted to swing into and out of operative position with each cycle of the tool, a locking means mounted upon the pivotal mounting of said guard, means mounted upon the releasing mechanism of said tool adapted to engage the locking means whereby the tool releasing mechanism can be operated only when the guard element is fully in operative position.

1,400,836. BOOT AND SHOE. WILLIAM FREDERICK STEPHAN, JOHN A. STEPHAN, and FREDERICK DANIEL STEPHAN, Shelbyville, Ind. Filed July 5, 1917. Serial No. 178,841. 4 Claims. (Cl. 36—42.)



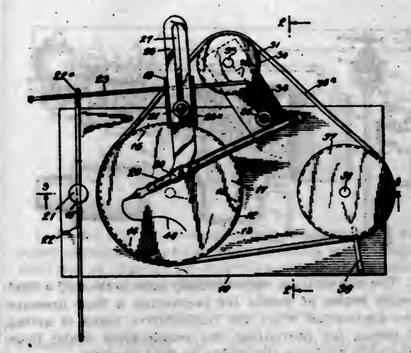
1. A shoe having on its heel seat a metallic plate provided on its edge with a depending flange and secured to the heel for the purpose described, said depending flange tapering from the back of the heel toward the forward edge of the plate.

1,400,837. PRESSED-STEEL WHEEL. JOSEPH G. SWAIN, Akron, Ohio, assignor, by mesne assignments, to The Firestone Steel Products Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 15, 1918. Serial No. 222,617. 2 Claims. (Cl. 301—64.)



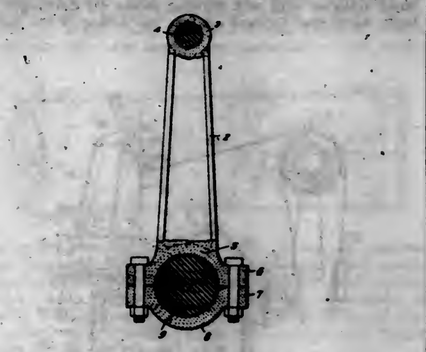
2. In a wheel structure, the combination with the hub and the rim, of a sheet metal disk secured to the hub, its middle portion extending forwardly and being formed with a concave portion and its outer portion being reversely bent to form a tapering flange, a tapered surface on the underside of said rim adapted to seat on said flange, the portion at the hub and the concave portion being on opposite sides of the median line of the wheel, and releasable means to hold the rim on the flange.

1,400,838. DEVICE FOR MAKING DESIGNS. WALTER M. TIETZ, Newark, N. J. Filed Dec. 1, 1919. Serial No. 341,689. 1 Claim. (Cl. 33—27.)



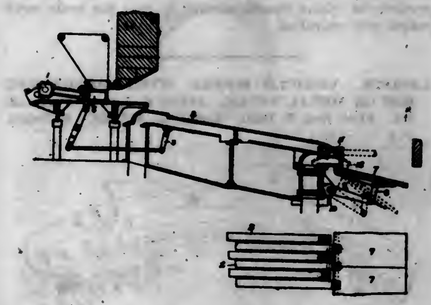
In a device for marking designs having a circular disk adapted to be manually revolved for rotatably carrying a writing surface element, a fixed apertured post adjacent to the disk, a bar slidably adjustable in the aperture of the post tangentially with relation to the disk and said bar having on one of its ends an eye, a rod slidably movable in the eye of the bar and pivotally connected to the disk, and a strip having on one of its ends a partial band for removably holding a marking implement in movable contact with the writing surface element and the strip

alloy of the class described consisting mainly of aluminum so as to be approximately as light as this metal and



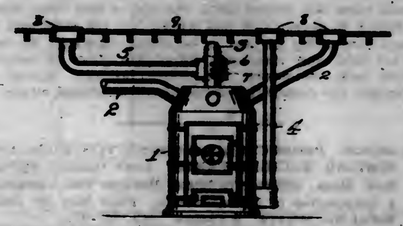
which has been worked and heat-treated to increase its density, tensile strength and elastic limit.

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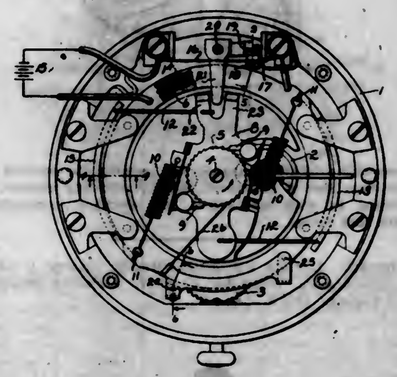
1. In a furnace the combination of fuel supporting members consisting of two series of longitudinal bars, means for reciprocating the bars of one series in unison and relative to the bars of the other series, an ash supporting member operatively associated with and adapted to be reciprocated by the movable series relative to the other bars, whereby the latter series of bars would operate to crowd the ashes across the supporting member in the same direction as the feed of fuel into the furnace.

1,400,831. HEATING SYSTEM. ELMER E. SCHELLHAMER, Reading, Pa., assignor of one-fourth to Adam P. Hafer, Reading, Pa. Filed Sept. 6, 1921. Serial No. 498,705. 3 Claims. (Cl. 126—99.)



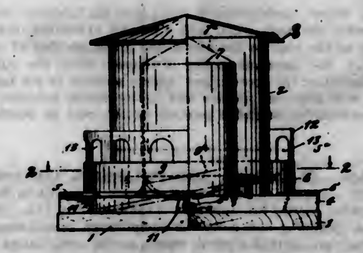
1. A house heating system comprising a furnace, a smoke flue leading therefrom, said flue having one or more perforations therein, a tube leading from an opening in the floor to a point in close proximity to the perforated smoke flue, a box inclosing the perforated portion of the smoke flue and the end of said tube, and a cold air inlet leading from an opening in the floor to a point below the furnace grate, the openings of both said tubes at the floor being provided with closures.

1,400,832. ELECTRIC CLOCK. LOUIS E. SHAW, East Orange, N. J. Filed Dec. 8, 1919. Serial No. 343,194. 16 Claims. (Cl. 58—41.)



16. In an electric clock, a movement having an escapement, electromagnetically-operative actuating mechanism therefor including an electromagnet and a spring adapted to be retensioned intermittently, an interwinding mechanism including a yieldable arm carried by an armature of the electromagnet for engagement with the escapement while the spring is being retensioned.

1,400,833. POULTRY-FEED APPARATUS. FRED T. SKUSE, Kirkland, Wash. Filed Feb. 18, 1921. Serial No. 446,078. 7 Claims. (Cl. 119—55.)

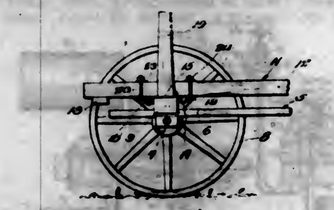


1. A base, tiltable members mounted on the base, platforms secured to said tiltable members whereby depression of the platforms will cause said members to tilt, and a reservoir having an open lower end resting upon said tiltable members and adapted to be elevated by the tilting of said members.

1,400,834. HAYRACK-FASTENER. HOWARD A. SMITH, Montgomery, Iowa. Filed Sept. 8, 1919. Serial No. 322,272. 2 Claims. (Cl. 298—9.)

1. A device of the class described including a sheet metal inverted U-shaped member, upwardly inclined arms

extending from the terminals of the sides of said member and having their upper extremities curved outwardly and



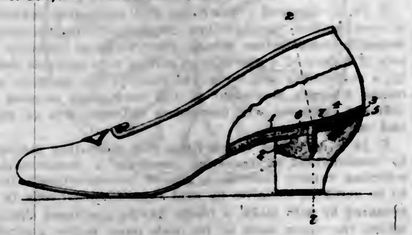
downwardly, and clamping members seating in the concavities of said curved extremities.

1,400,835. AUTOMATIC SAFETY-GUARD. LINTON GREGORY STABLES, Los Angeles, Calif. Filed July 26, 1920. Serial No. 398,870. 5 Claims. (Cl. 74—105.)



1. In an automatic safety guard in combination, a machine tool having a releasing mechanism and adapted to be released to travel through a certain cycle of operation, a guard element pivotally mounted upon the tool and adapted to swing into and out of operative position with each cycle of the tool, a locking means mounted upon the pivotal mounting of said guard, means mounted upon the releasing mechanism of said tool adapted to engage the locking means whereby the tool releasing mechanism can be operated only when the guard element is fully in operative position.

1,400,836. BOOT AND SHOE. WILLIAM FREDERICK STEPHAN, JOHN A. STEPHAN, and FREDERICK DANIEL STEPHAN, Shelbyville, Ind. Filed July 5, 1917. Serial No. 178,841. 4 Claims. (Cl. 36—42.)



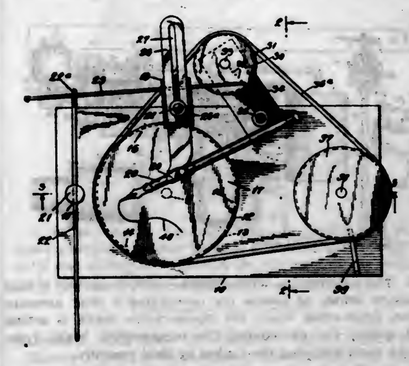
1. A shoe having on its heel seat a metallic plate provided on its edge with a depending flange and secured to the heel for the purpose described, said depending flange tapering from the back of the heel toward the forward edge of the plate.

1,400,837. PRESSED-STEEL WHEEL. JOSEPH G. SWAIN, Akron, Ohio, assignor, by mesne assignments, to The Firestone Steel Products Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 15, 1918. Serial No. 222,617. 2 Claims. (Cl. 301—64.)



2. In a wheel structure, the combination with the hub and the rim, of a sheet metal disk secured to the hub, its middle portion extending forwardly and being formed with a concave portion and its outer portion being reversely bent to form a tapering flange, a tapered surface on the underside of said rim adapted to seat on said flange, the portion at the hub and the concave portion being on opposite sides of the median line of the wheel, and releasable means to hold the rim on the flange.

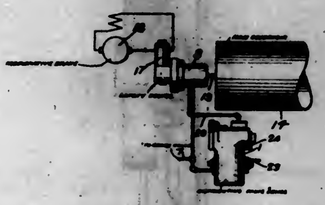
1,400,838. DEVICE FOR MAKING DESIGNS. WALTER M. TIETZ, Newark, N. J. Filed Dec. 1, 1919. Serial No. 341,689. 1 Claim. (Cl. 33—27.)



In a device for marking designs having a circular disk adapted to be manually revolved for rotatably carrying a writing surface element, a fixed apertured post adjacent to the disk, a bar slidably adjustable in the aperture of the post tangentially with relation to the disk and said bar having on one of its ends an eye, a rod slidably movable in the eye of the bar and pivotally connected to the disk, and a strip having on one of its ends a partial band for removably holding a marking implement in movable contact with the writing surface element and the strip

being adjustably mounted on the slidably movable rod to move to various positions relative to the center of the disk as well as to move with the slidable rod for causing the marking implement to move in different directions on the writing surface when the disk is revolved.

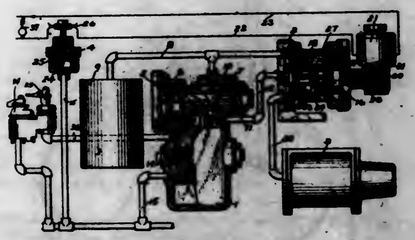
1,400,839. SAFETY DEVICE FOR REGENERATIVE BRAKES. WALTER V. TURNER, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Mar. 31, 1916. Serial No. 87,885. 18 Claims. (Cl. 303—3.)



1. The combination with a regenerative brake and a normally operative fluid pressure brake, of means for automatically preventing a fluid pressure brake application when the regenerative brake is acting.

8. The combination with a regenerative brake, a main reservoir, and a distributing valve device for supplying fluid from the main reservoir for effecting an application of the brakes, of an electrically controlled valve device normally connecting the main reservoir to said distributing valve device and operated when the regenerative brake is in action for cutting off communication from the main reservoir.

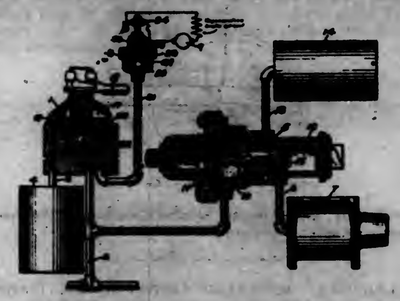
1,400,840. REGENERATIVE BRAKE DEVICE. WALTER V. TURNER, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 8, 1917. Serial No. 195,332. 3 Claims. (Cl. 303—3.)



1. The combination with a regenerative brake and a fluid pressure brake, of means for preventing a fluid pressure brake application when the regenerative brake is acting and means for preventing the regenerative brake from acting upon applying the brakes by fluid pressure.

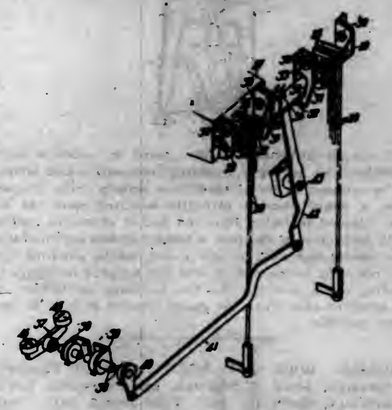
1,400,841. COMBINED FLUID-PRESSURE AND REGENERATIVE BRAKE. WALTER V. TURNER, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 22, 1917. Serial No. 197,805. 4 Claims. (Cl. 303—3.)

4. The combination with means for applying air brakes to a railway train unit and means for applying electric braking to the same unit, the two braking means being each normally separately operable, of means for making an emergency application of the air brakes, and means re-



sponsive to an emergency application by the train operator but unresponsive to a break in the train pipe for rendering the electric braking inoperative.

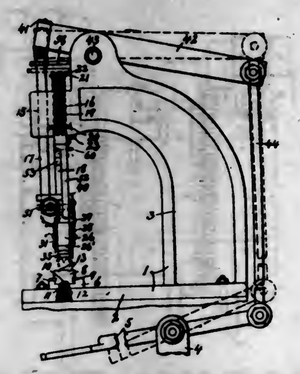
1,400,842. COMBINED TYPEWRITING AND COMPUTING MACHINE. HARRY H. VICKERS, Corona, N. Y., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Oct. 22, 1920. Serial No. 418,671. 16 Claims. (Cl. 235—60.)



2. In a combined typewriting and computing machine, in combination, a traveling carriage, carriage-actuated denomination-selecting means comprising a plurality of sets of jacks and a plurality of sets of rods operable thereby, a controlling member at the front of the machine, and means whereby movement of the controlling member to different positions will disconnect different sets of jacks and rods.

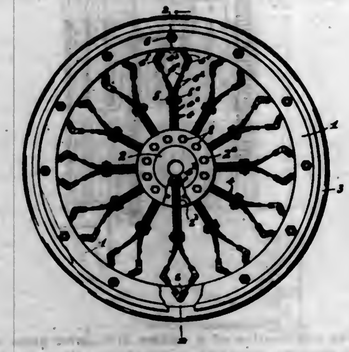
7. In a combined typewriting and computing machine, in combination, a traveling carriage, a denomination-selecting tappet thereon, a set of denominational jacks to be actuated serially by said tappet, thrust-rods to be actuated by said jacks, a frame having apertures through which the upper ends of the rods pass, means yieldably holding said frame in position to render said jacks effective on said rods, and a cam movable transversely of the machine and adapted in one position to hold the frame in position to render the jacks ineffective on the rods, or in another position to enable the frame to return to normal position.

1,400,843. STAPLING-MACHINE FOR LEATHER LOOPS. FREDERICK H. WILBUR, Binghamton, N. Y., assignor to Reynolds Manufacturing Company, West Toledo, Ohio, a Corporation of Ohio. Filed Sept. 15, 1919. Serial No. 323,992. 6 Claims. (Cl. 1—4.)



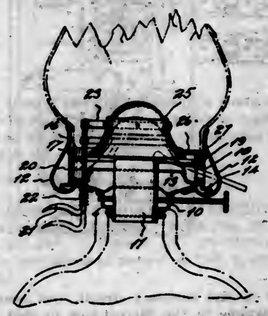
2. In a loop-forming and attaching machine, the combination of a support for the article to which the loop is to be attached, a plunger movable toward and from the support, means for operating the plunger, said plunger having a removable section slidably interlocked with the main body thereof, a form on said section for supporting a loop-blank and around which said blank is adapted to be folded, means actuated by the plunger operating means for folding the ends of the blank around said form, and means on the plunger for receiving and temporarily holding a clenching staple in position to be clenched through the ends of the folded blank and work to which the loop is to be attached as the plunger is forced toward said support.

1,400,844. RESILIENT VEHICLE-WHEEL. WILLIAM C. WRIGHT, Salem, and CHARLES M. WRIGHT, Lisbon, Ohio. Filed June 25, 1920. Serial No. 391,662. 8 Claims. (Cl. 152—28.)



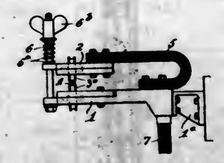
2. A resilient wheel, comprising hub and felly members, spokes connected to said hub member and terminating in diverging toggle arms, toggle links pivotally connected to the latter and said felly member, auxiliary spoke springs in said hub member having their ends extending over the base portions of said diverging toggle arms, and sleeves adjustably mounted on said auxiliary spoke springs for regulating the sensitiveness of said felly member relative to said hub.

1,400,845. LAMP-EXTINGUISHER. HENRY ZAJAC, Passaic, N. J. Filed June 1, 1921. Serial No. 474,057. 1 Claim. (Cl. 67—11.)



A lamp burner comprising a base, a wick tube extending therethrough, chimney securing prongs carried by the base, a chimney supporting ring associated with the base, said ring having an opening therein, an inwardly extending collar surrounding the opening, a burner cap associated with the base, a shutter carried by the burner cap for closing the opening in the ring, spring pressed means to normally hold the burner cap downwardly and the shutter in closed position, an extending handle for elevating the burner cap from the exterior of the lamp burner.

1,400,846. HEATING APPARATUS FOR METAL-WORKING MACHINES. CHARLES E. F. AHLM and THOMAS F. FERRY, Cleveland, Ohio. Filed May 7, 1920. Serial No. 379,489. 10 Claims. (Cl. 219—6.)

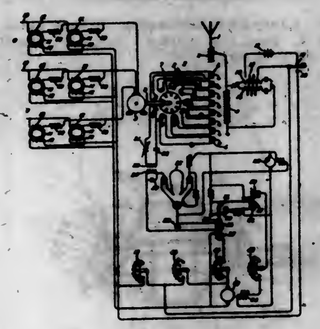


1. In an electric heating device, a plurality of superposed electrodes spaced unequal distances apart longitudinally and at opposite sides of the pathway of the material to be heated passed therebetween.

1,400,847. SYSTEM OF RADIO COMMUNICATION. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 31, 1918. Serial No. 269,035. 21 Claims. (Cl. 171—119.)

1. A system for the production of high frequency alternating current of substantially constant frequency comprising in combination a high frequency alternator, an auxiliary electric circuit electrically associated with said alternator and adapted to receive a current of the frequency generated by the alternator, a current rectifying electric circuit electrically associated with said auxiliary

electric circuit, means whereby the current-flow in said rectifying circuit has a greater rate of variation than the



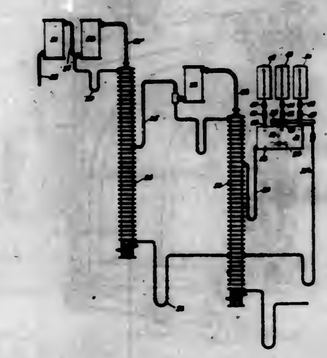
current-flow in said auxiliary circuit, and means responsive to variations in the current-flow in said rectifying circuit for varying the speed of said alternator.

1,400,848. PRESSURE-GAGE. THOMAS W. ANDERSON, Camden Point, Mo., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed June 14, 1915. Serial No. 33,867. 4 Claims. (Cl. 73—111.)



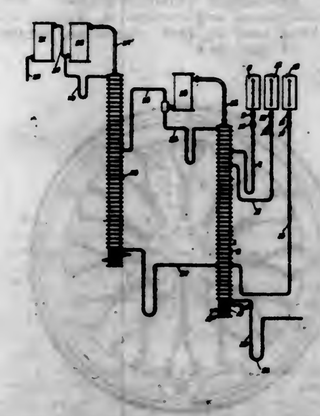
1. In a pressure gage, the combination of a rotary cylindrical drum-like indicating member, a longitudinally reciprocating pressure-responsive member, said indicating member having its axis of movement in the line of movement of said pressure responsive member, a connection between the two for translating the movements of the reciprocating member into rotary movements of the indicating member, and a cylindrical casing in which said parts are located in alinement one beyond another, said casing having a substantially straight bore of even diameter throughout.

1,400,849. CONTINUOUS PROCESS FOR THE MANUFACTURE OF ESTERS. ARTHUR A. BACKHAUS, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Aug. 7, 1918. Serial No. 248,754. 28 Claims. (Cl. 23—24.)



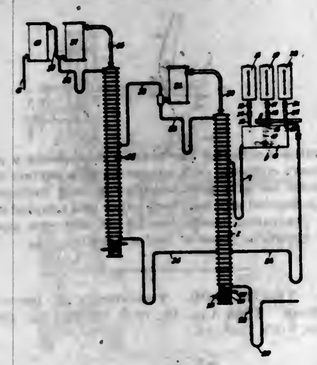
1. The process of manufacturing esters comprising passing an organic acid in countercurrent to gradually increasing concentrations of an alcohol, and in the presence of a catalytic agent while distilling off the ester formed.

1,400,850. APPARATUS FOR THE MANUFACTURE OF ESTERS. ARTHUR A. BACKHAUS, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Aug. 7, 1918. Serial No. 248,755. 4 Claims. (Cl. 23—24.)



1. The combination of a column still, inlet pipes near the top thereof connected to separate containers, an inlet pipe near the bottom thereof connected to a container, an outlet near the bottom of the still, a second column still, a delivery pipe leading from the top of the first still to the second still, a return pipe leading from the bottom of the second still to a point near the bottom of the first still, and a vapor exit for the second still.

1,400,851. APPARATUS FOR THE PRODUCTION OF ESTERS. ARTHUR A. BACKHAUS, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Aug. 7, 1918. Serial No. 248,756. 5 Claims. (Cl. 23—24.)

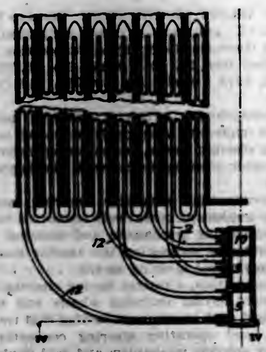


1. The combination of a column still, an inlet pipe near the top thereof, an outlet near its bottom, a second column still, a delivery pipe leading from the top of the first still to the second still, a return pipe leading from the bottom of the second still to the bottom of the first still, and a vapor exit at the top of the second still.

1,400,852. METHOD FOR THE PRODUCTION OF ESTERS. ARTHUR A. BACKHAUS, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed May 23, 1919. Serial No. 299,223. 25 Claims. (Cl. 23—24.)

1. The process of manufacturing esters comprising passing an acid fermented distillery waste in counter-current to gradually increasing concentrations of an alcohol in the presence of a catalytic agent while distilling off the esters formed.

1,400,853. SUPERHEATER. JOHN A. BARNES, West New Brighton, N. Y., assignor to The Superheater Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 7, 1917. Serial No. 200,691. 6 Claims. (Cl. 122—462.)



1. In a superheater of the class described, the combination of a header provided with three chambers, a set of superheater elements connecting the first and second chambers, a second set of elements connecting the first and third chambers, and a third set of elements connecting the third and second chambers.

1,400,854. DENTAL LIP AND TONGUE DEPRESSOR. ARTHUR BASS, San Rafael, Calif. Filed Mar. 14, 1921. Serial No. 452,066. 3 Claims. (Cl. 128—15.)



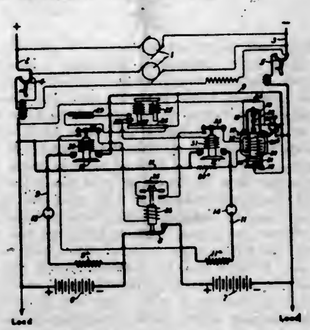
1. In a tongue and lip depressor, a plate of U shape adapted to be placed around a plurality of teeth, the inner leg shaped to depress the tongue, and the outer leg widened and curved to lay over the lip.

1,400,855. SIGN LUMINOUS BY REFLECTION. ERNEST BERTRON, Brussels, Belgium. Filed Feb. 25, 1920. Serial No. 361,188. 3 Claims. (Cl. 40—130.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



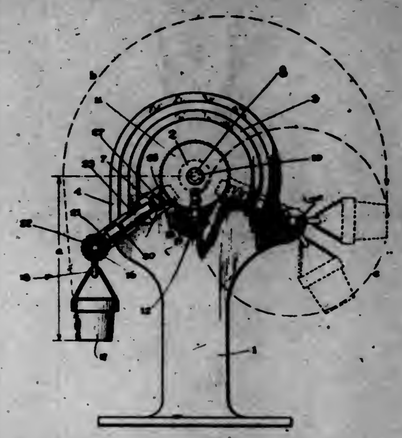
1. A luminous sign comprising a molded sign body having seatings formed thereon in the molding operation and thin, metal coated cup shaped disks cemented on said seatings and arranged to form the outlines of the characters constituting the luminous sign.

1,400,856. SYSTEM OF ELECTRICAL DISTRIBUTION. WILLIAM L. BLISS, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Apr. 3, 1916. Serial No. 88,634. 16 Claims. (Cl. 171—313.)



1. In combination, an electrical source of supply, means supplied thereby, a storage battery normally floating across said mains whereby to be instantly available in case of failure of said source, a switch dividing said battery into two sections, other switches for connecting each section across the mains for charging, electro-magnetic operating means for each of said switches, and means whereby the operating means of said first mentioned switch is rendered inoperative by the movement of said other switches.

1,400,857. CENTRIFUGAL CASTING-MACHINE. CHARLES FRANCIS BLOOM, Portland, Oreg. Filed Feb. 7, 1920. Serial No. 354,896. 18 Claims. (Cl. 22—65.)



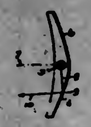
1. Casting apparatus, comprising means carrying a flask with a mold in top of which metal is melted, and means on which it is operated to spirally approach a stopping position for the carrying means and spinning position for the flask.

1,400,858. NECKTIE-HOLDER. JOHN BOROS, Milwaukie, Oreg., assignor to Perfection Tie Company, Portland, Oreg. Filed Feb. 15, 1921. Serial No. 445,143. 2 Claims. (Cl. 2—83.)



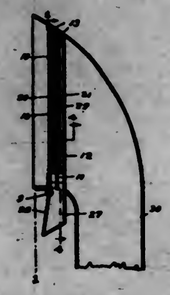
1. In a cravat support, a flexible supporting member, a supporting member including opposed legs positioned on the flexible supporting member, a spring member having loops formed at its ends and secured to the supporting member, said loops adapted to accommodate the flexible supporting member, the walls of said loops adapted to grip the flexible supporting member to restrict movement of the supporting member with respect to the flexible supporting member.

1,400,859. MULTIPLE REFLECTOR. EDMUND N. BROWN and MILTON H. SILVERMAN, San Francisco, Calif., assignors to Majestic Electric Development Company, San Francisco, Calif., a Corporation of California. Filed Nov. 4, 1920. Serial No. 421,710. 3 Claims. (Cl. 219—34.)



1. A multiple reflector for heaters comprising a plurality of concave elements each consisting of a surface of revolution about an axis perpendicular to said surface, said elements connected adjacent each other and adapted to contain heat generating means located on said axis and substantially about the focus of said concavity.

1,400,860. VENTILATOR. THEOPHILUS M. BROWN, Seattle, Wash. Filed Aug. 19, 1920. Serial No. 404,504. 8 Claims. (Cl. 183—42.)



2. A ventilator comprising three spaced parallel plates each formed with a plurality of vertical slots, the outermost plates having inwardly directed flanges at the edges of said slots, the inner plate having flanges upon both sides of the plate at the side edges of the slots therein.

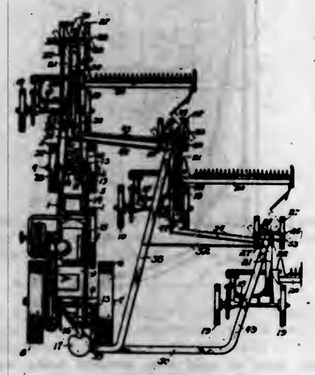
1,400,861. DRAFT CONNECTION. EDWARD W. BURGESS, Chicago, Ill., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Mar. 25, 1916, Serial No. 86,759. Renewed Nov. 22, 1919. Serial No. 339,965. 14 Claims. (Cl. 56—6.)

1. In combination, a tractor, steering means carried thereby, an implement operatively connected to the tractor and having steering means, and means operatively connecting the tractor steering means with the implement steering means.

3. In combination, a tractor, steering means carried thereby, an implement operatively connected to the tractor and having cutting mechanism and steering means, and means operatively connecting the tractor steering means with the implement steering means.

4. In combination, a tractor having steering mechanism, an implement having carrying wheels and steering elements, a rigid push member connecting said tractor to said implement, and operating steering connections between said tractor steering mechanism and said implement steering elements.

6. A mechanism of the class described including, in combination, a tractor including a truck frame and a steering mechanism, an implement including carrying wheels, a draft tongue, a tongue truck supporting said draft tongue, rigid propelling means connecting said draft tongue with the truck frame of the tractor, and rigid operative steering connections between the tractor steering mechanism and the wheels of said tongue truck.



8. A mechanism of the class described including, in combination, a tractor including a truck frame and a steering mechanism, an implement including carrying wheels, a draft tongue, a tongue truck supporting the front end of said draft tongue and including a vertically disposed stem, said stem being journaled upon the front end of said draft tongue, an arm secured to said stem, a push member having its rear end connected with the front end of the truck frame of the tractor and its front end pivotally connected with the front end of said draft tongue, and operative connections between the tractor steering mechanism and the arm secured to the stem of said tongue truck.

1,400,862. INDEX-TAB. JOHN LOUIS BURGOYNE, San Francisco, Calif. Filed May 23, 1921. Serial No. 471,893. 18 Claims. (Cl. 40—23.)



1. An index tab comprising a transparent member, a backing sheet and a strip therebetween, said strip having an upper edge forming a ledge on which an insert is adapted to slide when said insert is placed between said backing and said transparent member.

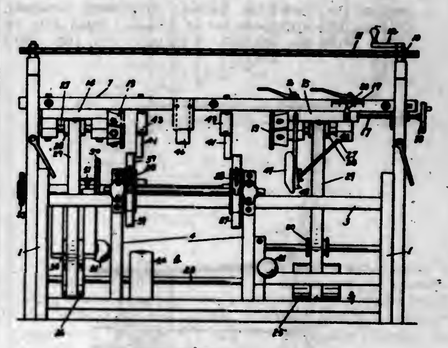
1,400,863. OIL DASH-POT. GEORGE A. BURNHAM, Saugus, Mass., assignor to Sears B. Condit, Jr., Brookline, Mass. Filed May 17, 1917. Serial No. 169,228. 2 Claims. (Cl. 188—96.)

1. A retardation device comprising a solenoid, a core operable therein, a dash pot comprising a cylinder adapted to contain oil depending from said solenoid, a piston operable therein, a piston-rod connected with said piston extended through the end of said cylinder and connected



with said core, and an inclosing casing for said cylinder adapted to receive oil.

1,400,864. RELISHING-MACHINE. CHAUNCEY D. BURRITT, Cadillac, Mich. Filed Apr. 25, 1919. Serial No. 292,734. 5 Claims. (Cl. 144—203.)

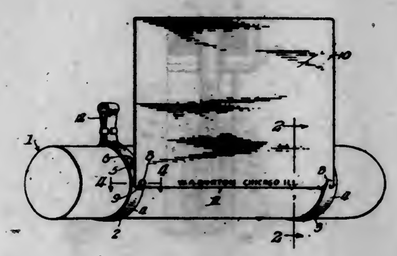


1. In a structure of the class described, the combination of a frame, a vertically adjustable cutter head bar, adjusting means therefor, cutter head members mounted on said head bar, one of said head members being mounted for axial adjustment of the cutter, cutters carried by said cutter head members, a feed conveyer below said cutter head bar comprising sprocket wheels and sprocket chains, and work carriers, a pair of rearwardly inclined yielding work presser bars mounted on said cutter head bar to engage the work as it is carried rearwardly by the conveyer, a yielding work holder member mounted on said cutter head bar centrally between said work holder bars to engage the work while it is acted upon by the cutters, a yielding end thrust member at one side of the conveyer carried by the adjustable cutter head member to engage one end of the work as it is carried by the feed conveyer, and an adjustable work guide disposed at the other side of the conveyer to position the work.

1,400,865. CARD-HOLDING CLIP FOR TYPEWRITERS. WARD A. BURTON, Pittsburgh, Pa. Filed Nov. 15, 1920. Serial No. 424,024. 7 Claims. (Cl. 197—136.)

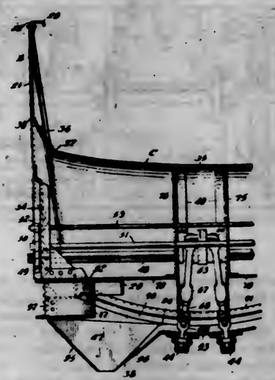
1. The combination with a typewriter platen, of two separate annular members removably clamped about said platen in lateral spaced relation, said members having

means to receive the lower corners of an index or other card for holding the lower marginal portion of the card



between the members in contact with the platen to permit typing of a name and address or other desired data along and adjacent the lower edge of the card.

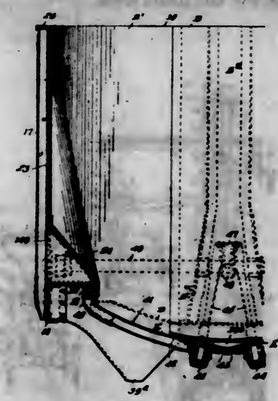
1,400,866. ORE-CAR. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed July 12, 1920. Serial No. 395,507. 8 Claims. (Cl. 105—250.)



4. In a hopper car, the combination with side hopper walls; of end hopper walls, each end hopper wall sloping downwardly from the top of the car and of a section gradually changing from flat to curved and with the curvature of minimum radius at the bottom thereof, the lower edges of said side and end hopper wall defining a single, unobstructed discharge opening; means for closing said opening; and mechanism for operating said means.

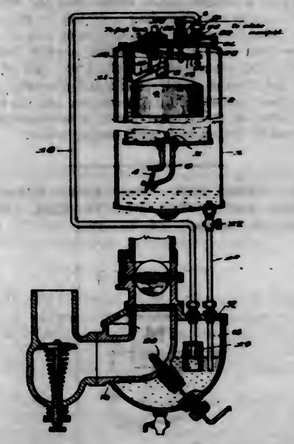
1,400,867. DUMPING-CAR. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 27, 1920. Serial No. 433,214. 8 Claims. (Cl. 105—247.)

2. An inclined hopper end wall for a dumping car, said wall comprising: a main portion concave on its upper side and of the same curvature from its top to bottom edge, and two flat side portions merging with said main



portion, each of said side portions being additionally inclined with respect to said main portion.

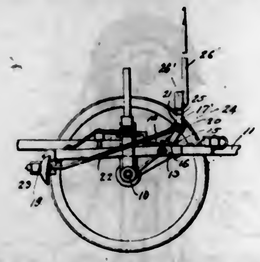
1,400,868. AUTOMATIC FUEL CONTROL. THOMAS WILLIAM CRANE, Imperial, Calif. Filed Dec. 21, 1920. Serial No. 432,351. 3 Claims. (Cl. 158—36.)



1. The combination with a fuel containing vacuum tank, of a carbureter having a fuel chamber, a fuel supply pipe extending from said tank into said fuel chamber and terminating below the level of the fuel in said chamber, an air conducting pipe extending from said tank to said chamber and terminating at approximately the level of the fuel therein, said vacuum tank and said pipes constituting the sole means for maintaining a constant fuel level in the chamber of said carbureter, and means surrounding the air inlet end of said air conducting pipe to prevent the splashing of the fuel adjacent said air inlet pipe.

1,400,869. VEHICLE-BRAKE. CHARLES F. CRAWFORD, Liberty, N. Y. Filed Feb. 14, 1920. Serial No. 358,573. 2 Claims. (Cl. 188—12.)

1. In a vehicle brake, the combination with the front axle hounds, of bearing eyes on the forward portions of the hounds, a brake beam at the rear of the front wheels of the vehicle, forwardly extending rods connected with



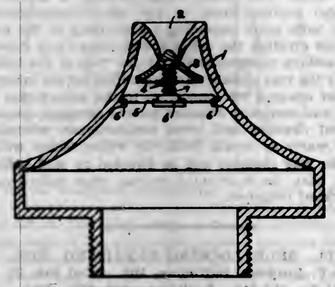
the beam, a yoke having inturned ends rotatably supported in the eyes and connected with the said rods, and means for rocking the yoke.

1,400,870. AUTOMATIC CUT-OUT. LORENZO DOW CRONINGER, Dayton, Ohio. Filed June 18, 1920. Serial No. 389,841. 12 Claims. (Cl. 200—80.)



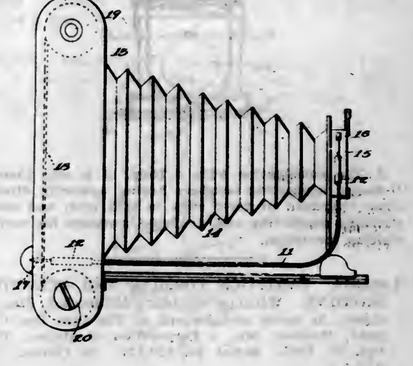
1. In a device of the character described, a rotatable body portion having an outwardly extending cavity, a conductor carried by said body portion and comprising two sections, each section having a part extending through the wall of said cavity in the outer end thereof and forming a contact, and a body of conducting material mounted in said cavity and movable by centrifugal force into engagement with said contacts.

1,400,871. OIL-CAP FOR VEHICLE-WHEELS. ANDREW JOSEPH CROTTY, Knocklong, Ireland. Filed Sept. 5, 1917. Serial No. 189,865. 2 Claims. (Cl. 184—89.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



2. In an oil cap having a conical casing with an internal flange at the apex thereof and spaced internal lugs on the walls thereof, a valve comprising a conical body member having a recess in the base thereof, a cross member seated on the internal lugs of the walls of the casing, a pin secured in the cross piece, and a spring extending between the said cross piece and the said valve member, one end of the spring surrounding the said pin and the other pin entering the said recess in the base of the valve member to center the said spring and normally maintain the valve member in position against the valve seat formed at the extremity of the said internal flange at the apex of the casing.

1,400,872. DOUBLE-EXPOSURE AND BLANK-FILM PREVENTING DEVICE FOR CAMERAS. HOWARD JOHNSON FRIES, Tacoma, Wash. Filed Jan. 13, 1920. Serial No. 351,141. 3 Claims. (Cl. 95—31.)



1. In a film camera adapted to use a film having a notched edge and having a shutter mechanism and an actuating means therefor, a film engaging member connected to and movable by the shutter actuating means for engagement with the edge of a film and releasable through the notches of the film edge.

1,400,873. HACKSAW. MYRON CARLOS GIBSON, Los Angeles, Calif. Filed Aug. 1, 1921. Serial No. 488,946. 5 Claims. (Cl. 145—34.)

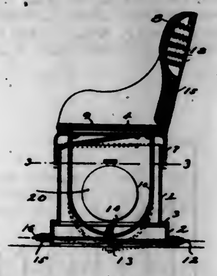


1. A hack saw comprising a frame of substantially U form having legs provided with eyes or bearings at their lower ends, clamp bolts adjustably mounted in said eyes, said bolts also including slitted cross bolts, a saw blade the ends of which are mounted in the slits thereof, and ad-

justable means mounted on the cross bolts and bearing against the opposite edges of the saw blade to hold the same in the said slits.

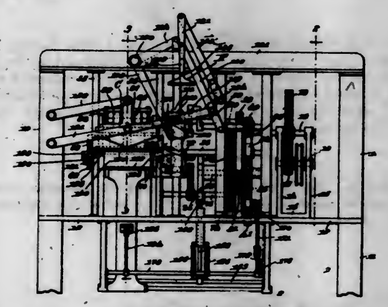
1,400,874. [WITHDRAWN.]

1,400,875. SEAT. DOUGLAS CAULKINS GOFF, Lynchburg, Va., assignor of one-half to William R. Anderson, Lynchburg, Va. Filed Oct. 27, 1920. Serial No. 419,878. 11 Claims. (Cl. 155—52.)



1. The combination with a body, of a seat thereon, U-shaped supporting members having upwardly directed arms connected at their ends to said seat, and means yieldably supporting said U-shaped members for vertical yielding movement.

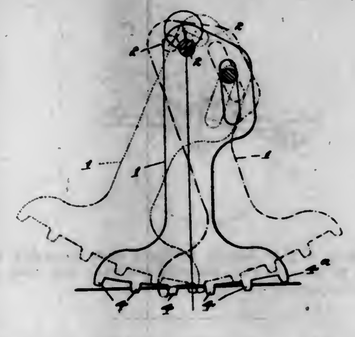
1,400,876. PARTITION FORMING AND ATTACHING MACHINE. WILLIAM GOODELL, Millinocket, Me., assignor, by mesne assignments, to The Cone Bag Company, Madison, Me., a Corporation of Maine. Filed Oct. 28, 1920. Serial No. 420,117. 25 Claims. (Cl. 93—1.)



1. In a machine of the character described, in combination, means for feeding, punching and gumming a web section, means for severing said web section from the web, a plate, and means for folding said section on said plate in position to be acted upon, where gummed, by pressing means.

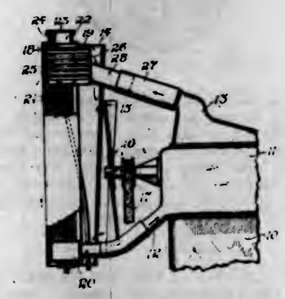
1,400,877. INTERMITTENT FEED MECHANISM. ALBERT GEORGE HILLMAN, London, England, assignor to Cinechrome Instruments, Limited, London, England. Filed June 26, 1920. Serial No. 392,083. 6 Claims. (Cl. 88—18.4.)

1. Intermittent feed mechanism for cinematographic apparatus comprising a feed sector, a spindle on which said feed sector is fast, a rotatable element having an eccentric bearing in which the spindle is mounted free to oscillate, means for rotating said element and means



for oscillating the feed sector to feed the film, substantially as described.

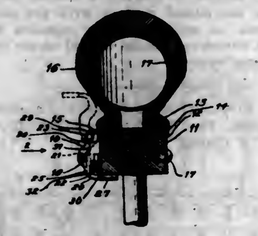
1,400,878. COOLING DEVICE. FRANK D. HOWE, Akron, Ohio, assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Aug. 31, 1916. Serial No. 117,887. 4 Claims. (Cl. 251—125.)



1. A cooling device for internal combustion engines having upper and lower compartments, a plurality of horizontal cooling tubes in the upper compartment, a vertical baffle plate extending transversely of the cooling tubes and dividing the upper compartment into front and rear chambers communicating at the ends of the baffle, an inlet for the rear chamber and an outlet for the lower compartment adapted for connection to the waterjacket of an engine, and vertically disposed cooling passages connecting the front chamber and lower compartment, whereby hot cooling water or steam from the water jacket will first enter the rear chamber and be directed by said baffle into contact with the horizontal cooling tubes before passing to the front chamber.

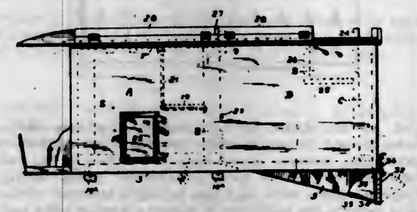
1,400,879. SELF-LOCKING RETAINING-NUT. WILLIAM F. JOHNSON, Baltimore, Md. Filed Jan. 23, 1920. Serial No. 353,440. 7 Claims. (Cl. 301—29.)

1. The combination with a felly, a rim, means on said felly for securing one side of said rim, a ring, and bolts through said felly, of nuts on said bolts, each nut comprising a body screwed on said bolt, a handle pivoted to



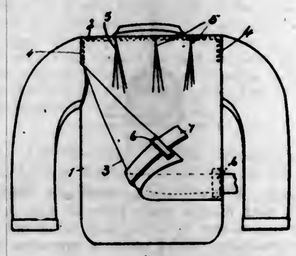
said body, and a grip on said handle contacting with said felly to lock said body.

1,400,880. REFRIGERATOR-BODY FOR VEHICLES. CHARLES O. JUNGE, Pittsburgh, Pa., assignor of one-half to Edward E. Rieck, Pittsburgh, Pa. Filed Oct. 11, 1920. Serial No. 416,067. 5 Claims. (Cl. 294—24.)



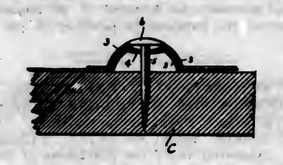
1. In a vehicle body for the transportation of frozen products, a product compartment having walls comprised of vertically disposed ice tanks, means spaced above the bottom of said tanks for the support of their solid contents, trough members in which said tanks are stepped, and drainage means for said trough members.

1,400,881. SHIRT. JOHN Y. KING, Lansdowne, Pa. Filed Mar. 19, 1919. Serial No. 283,552. 1 Claim. (Cl. 2—41.)



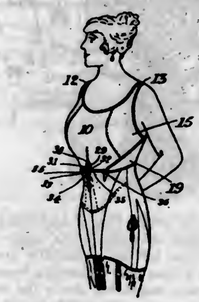
The herein described combination of a shirt including a yoke, a protecting member the upper edge of which is stitched below the shirt collar, a line of stitching upon each side edge of the protecting member securing it for a limited distance below the yoke of the shirt, plaits formed in the protecting member so as to hold it out of close contact with the back of the shirt, and loops attached along the side edges of the protecting member near the bottom edge thereof.

1,400,882. METAL CEILING. WILLIAM H. KLAUER, Dubuque, Iowa. Filed Sept. 23, 1916, Serial No. 121,805. Renewed July 11, 1921. Serial No. 483,944. 3 Claims. (Cl. 189—86.)



1. As a new and improved article of manufacture, a metallic ceiling section comprising a sheet of metal having a rosette protruding therefrom, said rosette being dished at its attaching point to afford a centering point for the attaching nail, and the metal at said point being thinned to permit the piercing thereof by the driving force of a nail.

1,400,883. BRASSIÈRE. WALDEMAR KOPS, New York, N. Y., assignor to Kops Bros., New York, N. Y. Filed Feb. 17, 1921. Serial No. 445,641. 2 Claims. (Cl. 2—73.)



1. In a brassière, a front member having side extensions, a back member having side extensions, tapes connected to the extensions of the front member, tapes connected to the extensions of the back member, a ring secured in the lower front portion of the front member and adapted to receive the tapes connected to the extensions of the front member after the same have been passed around the waist of the wearer to maintain the same in position after having been tied, and eyes also secured in the lower front portion of the front member adjacent the said ring and adapted to be connected to the tapes leading from the extensions of the back member to secure these in position.

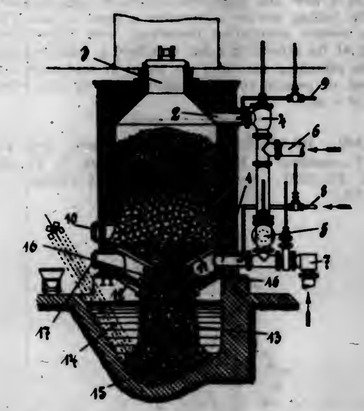
1,400,884. BRASSIÈRE. WALDEMAR KOPS and LOUIS GOLDSMITH, New York, N. Y., assignors to Kops Bros., New York, N. Y. Filed Feb. 17, 1921. Serial No. 445,643. 2 Claims. (Cl. 2—73.)



1. In a brassière, a front member, a back member, both the said members being adapted to extend over the side

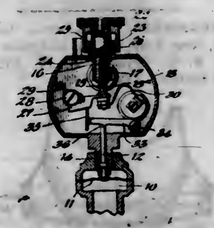
portions of the body of the wearer, a loop device attached to the lower portion of the back member, and tapes attached to and extending from the extremities of the front member and threaded through the said loop device in the back member and also through the extremities of the back member and adapted to be connected together to secure the garment in position on the body of the wearer.

1,400,885. AUTOMATICALLY-UNSLAGGING SHAFT CONSTRUCTION FOR WATER-GAS GENERATORS. PHILIPP KOSTER, Frankfort-on-the-Main, Germany. Filed Oct. 2, 1915. Serial No. 53,781. 2 Claims. (Cl. 48—69.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



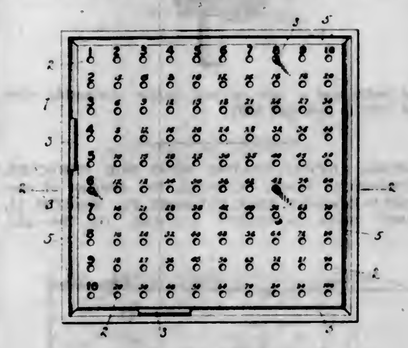
1. A furnace for the production of water-gas comprising a shaft having a feed opening in its upper end and a conically-shaped bottom having a centrally disposed opening therethrough, a diving pipe depending from said opening, a basket-like grate supported above the shaft bottom and having a central opening therethrough of smaller size than the opening in said shaft bottom, and an annular grate-like connection between said shaft bottom and basket-like grate surrounding said openings and enlarging toward the opening in the shaft bottom.

1,400,886. CIRCUIT-CONTROLLER. THEODORE G. LEWIS, Buffalo, N. Y., assignor to Buffalo Dental Manufacturing Company, Buffalo, N. Y., a Corporation of New York. Filed Dec. 10, 1919. Serial No. 343,842. 1 Claim. (Cl. 200—140.)



A circuit controller, comprising a casing provided at its bottom with a hollow attaching-nipple, binding posts extending through the back of the casing, one of said posts being provided within the casing with an internally-threaded eye, an adjusting screw engaging said eye and carrying a terminal-contact, a contact-lever arranged in the casing and carrying a terminal contact adapted to engage said adjustable contact, a flexible conductor connecting the last-named contact with the other of said binding posts, an actuating lever engaging said contact lever, and a thrust-rod guided in said nipple for operating said actuating lever.

1,400,887. EDUCATIONAL DEVICE. HARRIET LIEBMAN, Philadelphia, Pa. Filed Aug. 11, 1920. Serial No. 402,775. 2 Claims. (Cl. 35—2.)



1. An educational device comprising, a base having holes formed therein, markers adapted to be retained in said holes, numbers placed upon the surface of the base adjacent to the said holes suitable for giving instructions in number work, said base having a sufficient surface area between the said holes to permit a number being associated closer to the hole it is intended to designate than to any other hole, and said numbers being positioned on the base so as to be visible when the markers are in the holes formed in said base.

1,400,888. BROOM-BRIDLE. ARTHUR O. LINDSTROM, Cleveland, Ohio, assignor of one-half to George E. Kohl, Cleveland, Ohio. Filed May 5, 1920. Serial No. 379,087. 2 Claims. (Cl. 15—23.)

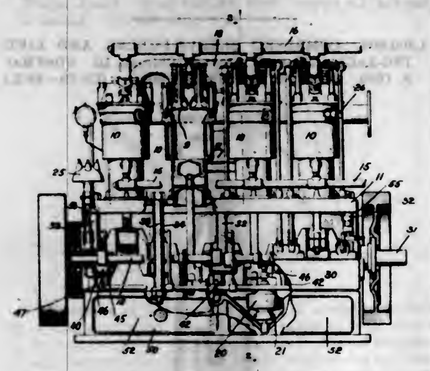


1. A device of the character described, comprising a spring clip bent from a single piece of wire into a substantially rectangular loop, the loop being then bent to form diverging jaws, one of which is approximately twice the length of the other.

1,400,889. INTERNAL-COMBUSTION ENGINE. CHARLES E. LUCKE, New York, N. Y., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed June 9, 1917. Serial No. 173,702. Renewed Apr. 2, 1921. Serial No. 458,600. 19 Claims. (Cl. 123—195.)

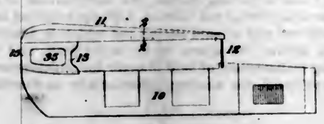
1. An internal combustion engine comprising a cylinder base, a main base separated from said cylinder base

adapted to carry the crank shaft, spacing means between said cylinder base and said main base removably inde-



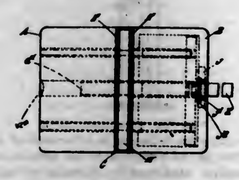
pendently thereof, removable means coöperating with said spacing means and connecting said bases, and a plurality of cylinders detachably secured to said cylinder base.

1,400,890. AUTOMOBILE-TOP. JAMES C. MCQUILKIN, Oakland, Calif. Filed May 13, 1919. Serial No. 296,801. 3 Claims. (Cl. 296—102.)



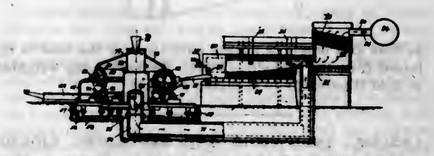
1. A top for a touring car type of body, comprising a transversely arched roof section formed of a thin impervious, semi-rigid material continuous and unjointed from front to rear and having its longitudinal sides terminating in vertical walls increasing in height from front to rear, whereby to render the same inherently rigid and self-supporting without the aid of stiffening and reinforcing frames, a back wall formed also of the same material united with the roof section and continuing around at its ends for some distance to form comparatively long side walls, and means for connecting said back wall to the body of the car, said back wall and its extended ends forming a support for the forwardly projecting and overhanging rigid roof structure.

1,400,891. LOOSE-LEAF BOOK. BERTRAND GEORGE MARTIN, London, England. Filed Apr. 30, 1921. Serial No. 465,662. 4 Claims. (Cl. 129—41.)



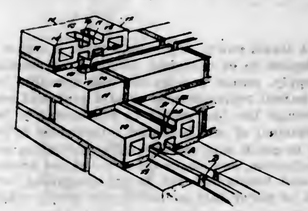
1. In a loose-leaf book, the combination of a cover, a thong attachment of stiff material, a flexible thong secured to said cover and to said thong attachment, a second cover inclosing said attachment and slidable thereon, a tab secured to said attachment and projecting beyond said cover at the edge thereof remote from said thong, and means for connecting said tab to said first-named cover when the book is closed.

1,400,892. PROCESS AND APPARATUS FOR REFINING COPPER. OLIVER C. MARTIN, Richmond Hill, N. Y., assignor to Nichols Copper Company, New York, N. Y., a Corporation of New York. Filed Apr. 5, 1918. Serial No. 226,851. 16 Claims. (Cl. 266—9.)



1. The process of refining copper which comprises melting the copper, transferring the molten copper directly to one of a plurality of holding furnaces, shifting the holding furnace from the melting furnace toward a casting machine and poling the molten copper during the shifting of said holding furnace, emptying said holding furnace and simultaneously filling another holding furnace, while said first named holding furnace is being emptied, substantially as and for the purpose described.

1,400,893. WALL CONSTRUCTION AND BRICK THEREFOR. ROBERT F. MARTIN, New York, N. Y., assignor to Robert F. Martin Corporation, New York, N. Y. Filed July 30, 1919, Serial No. 314,320. Renewed May 11, 1921. Serial No. 468,726. 7 Claims. (Cl. 72—41.)

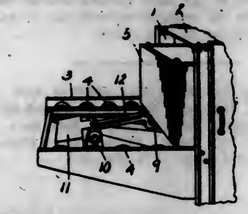


1. A brick for wall construction comprising a solid face portion, and an inner portion comprising spaced end sections constituting with the said face portion, the wall supporting portions of the brick, and an intermediate portion comprising a lateral web connecting said end sections intermediately their upper and lower surfaces, and provided intermediate its longitudinal edges and at its upper and lower sides with relatively narrow non-mortar receiving ribs.

1,400,894. BOTTLE OR CAN WASHING MACHINE. WILLIAM G. MASON, Detroit, Mich., assignor to John W. Ladd Company, Detroit, Mich. Filed May 11, 1921. Serial No. 468,512. 2 Claims. (Cl. 141—7.)

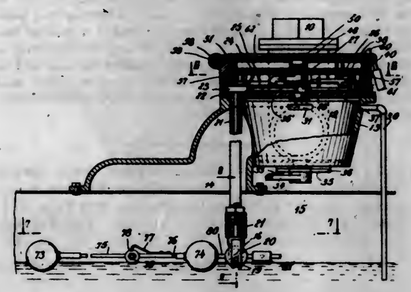
1. In a washing machine of the class described, the combination of a way and washing means associated therewith, of case-like holders traveling on said way, and means for positioning said holders in operative relation to the washing means as the holders are pushed along the way com-

prising an upwardly facing pivoted hook adapted to successively engage the rear walls of the holders and having an inclined portion projecting into the path of the holders



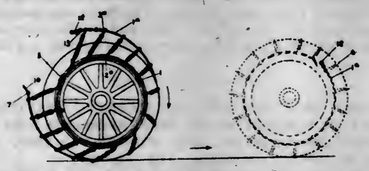
so that as a holder is pushed onto the way the hook is released from the preceding holder, the hook being weighted to hold it normally in engaging position.

1,400,895. INDICATING AND RECORDING LIQUID-FUEL-SUPPLY-TANK APPARATUS. EDWIN S. MATTHEWS, New York, N. Y. Filed Feb. 18, 1918. Serial No. 217,983. 31 Claims. (Cl. 234—10.)



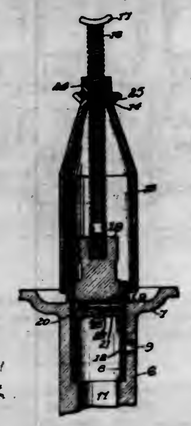
10. A liquid power fuel supply tank, a motor connected and adapted to be energised from the combustion of said fuel supply, means constructed and arranged to alternatively permit replenishment of said tank and coincidently to interrupt the fuel supply to said motor or to obstruct replenishment of said tank and coincidently to permit fuel supply to reach said motor, supply indicating and recording mechanism, and means constructed and arranged to actuate said mechanism for record producing between the periods of motor incapacitation and motor rehabilitation, independently of its operation for indication.

1,400,896. ANTISKID-CHAIN. ROBERT MESTARS, Oakland, Calif. Filed Oct. 23, 1917. Serial No. 198,059. 4 Claims. (Cl. 152—14.)



3. An anti-skid device of the character described comprising a ring, a rod bent into circular form, means for positively connecting the ends of said rod, and transverse chains connecting said rod and said ring, said rod possessing sufficient resilience to automatically expand it sufficiently to be readily disengaged from the wheel when the ends are disconnected.

1,400,897. COMBINED SLEEVE-PULLER AND LIFTING-JACK. JAMES W. MOYLES, Chicago, Ill. Filed Mar. 3, 1920. Serial No. 362,988. 4 Claims. (Cl. 29—88.2.)



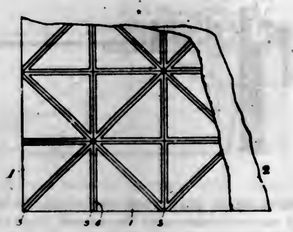
1. In a sleeve pulling device, the combination of a casing, a movable lifting rod therein, a plunger having engagement with one end of said lifting rod which is adapted for insertion within the sleeve to be withdrawn, and means extending transversely of said plunger for engagement with said sleeve inside the bearing, substantially as described.

1,400,898. HINGE-GAGE. ANDREW G. MUADOCK, Highland Park, Mich. Filed May 20, 1920. Serial No. 382,790. 4 Claims. (Cl. 33—197.)



1. A hinge gage including a bar formed of a plurality of hinge connected parts adapted to be folded, one upon another, and means attached to certain of said parts for locating the position of hinge leaves upon a member to which the gage is applied, one of said parts being extensible to increase the over-all length of the bar.

1,400,899. PROCESS OF UTILIZATION OF WASTE OR SCRAPS OF LEATHER. MIZUHIKO NAKAYAMA, Toyotamagun Tokyo-Fu, and KEIJIRO ADACHI, Shitaya-Ku, Tokyo, Japan. Filed Dec. 18, 1919. Serial No. 345,859. 2 Claims. (Cl. 154—2.)



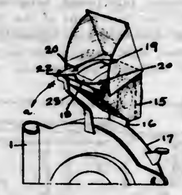
1. A process of utilization of waste or scraps of leather by cutting such waste or scraps into pieces of such shapes as can be arranged or connected together allowing no space or gap among the joints of the pieces, whereby an optional pattern being had, pasting the cut pieces on board or cloth or the like sewing the joints of the pieces together, and then coating the surfaces of the seams with thread protecting material.

1,400,900. TEMPER-SCREW FOR WELL-DRILLING TOOLS. ROBERT E. NEILSON, Tulsa, Okla., assignor, by direct and mesne assignments, to Tulsa Machine and Tool Company, Tulsa, Okla. Filed Mar. 22, 1920. Serial No. 367,811. 12 Claims. (Cl. 287—61.)



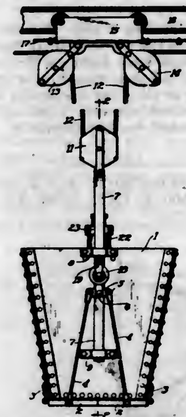
9. A temper-screw, comprising a head with opposite shouldered recesses, and extending pivot arms with cable eyelets; reins secured in the recesses, with formations on each end like those of the recesses in the head; unthreaded screw jaws, with extensions having inside recess formations to receive the lower rein ends, one having a flat-ended recess, and internal grooves; a main screw occupying half threaded bushings secured in the jaws, with ribs in the grooves, the screw having a ball-bearing swiveled cross bar at the upper end with cable connections running through the eyelets, the lower end having turning means with cable carrying means; and jaw clamping means including a yoke secured in the recess, with flat shoulders engaging the flattened ends, and a binding screw opposing expansion springs operatively situated between the screw jaws.

1,400,901. VIEW-FINDING DEVICE. FRANK F. NELSON, San Francisco, Calif. Filed Feb. 25, 1920. Serial No. 361,361. 1 Claim. (Cl. 88—1.5.)



A view finding device for cameras comprising in combination a lens mounting and an image finder fixedly mounted thereon, said lens mounting being rotatable relative to the camera; means for limiting the rotative movement of said lens mounting; a matting frame revolubly mounted on said image finder; means on said matting frame for engaging a relatively stationary part of the camera whereby said matting frame is revolved synchronously with the rotative movement of said lens mounting, into either the vertical or horizontal planes.

1,400,902. SELF-OPENING BUCKET. CLYDE NOLAN, Chicago, Ill., assignor to American Steam Conveyor Corporation, Chicago, Ill., a Corporation of New York. Filed June 11, 1920. Serial No. 388,351. 6 Claims. (Cl. 294—71.)

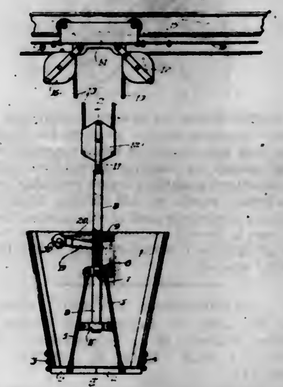


1. A bucket of the class described provided with hinged bottom doors, a bucket carrier capable of a limited amount of vertical movement independent of the bucket, non-rigid means connecting said carrier and said doors whereby the latter are held closed when the carrier lies in the highest position to which it may be moved independent of the bucket, and automatic means interposed between the carrier and bucket arranged to permit the carrier to move comparatively freely downwardly with respect to the bucket and adapted to permit but offer substantial impedance to upward movement of the carrier independent of the bucket.

1,400,903. SELF-OPENING BUCKET. CLYDE NOLAN, Chicago, Ill., assignor to American Steam Conveyor Corporation, Chicago, Ill., a Corporation of New York. Filed June 11, 1920. Serial No. 388,352. 5 Claims. (Cl. 294—71.)

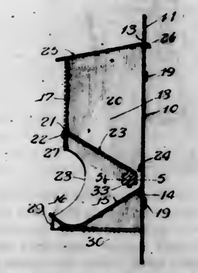
1. A bucket of the class described provided with hinged bottom doors, a bucket carrier capable of a limited amount of vertical movement independent of the bucket, non-

rigid means connecting said carrier and doors, whereby the latter are held closed when the carrier lies in the highest position to which it may be moved independent of the bucket, and means interposed between the carrier and bucket to permit free movement of the carrier relative to the bucket in one direction and impeded movement in the opposite direction, said means consisting of a pair of friction devices disposed on opposite sides of said



bucket, said devices comprising a pair of arms pivoted respectively at one end to the carrier and to the bucket, the free end of one of said arms having a frusto-conical shaped boss over which the open free end of the other of said arms is arranged to lie, a cap frictionally engaging said boss and the last mentioned arm, a ratchet on said cap, and a detent mechanism therefor carried by said last mentioned arm.

1,400,904. NOVELTY MATCH-BOX. SAM K. NOMELAND, Porter, Minn. Filed May 8, 1920. Serial No. 379,870. 2 Claims. (Cl. 206—20.)



1. A match box comprising a back plate having a tray struck from its lower end portion with resultant spaced legs, and integral sheet metal front and side portions secured to the back plate above the tray and to the legs at the sides of the tray, the sides of the box having their lower edge portions extending inwardly toward each other, the tray extending forwardly in arc shape from the back plate and resting upon the inwardly directed portions of the sides, the tray being accessible from the front of the box.

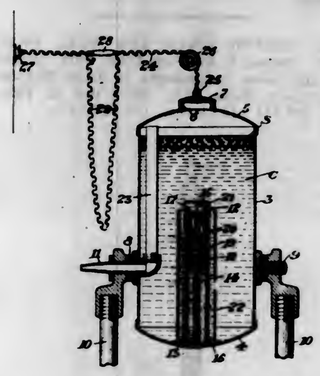
1,400,905. WRENCH. SVEN JOHAN NORDSTROM, San Francisco, Calif. Filed Nov. 10, 1920. Serial No. 422,987. 5 Claims. (Cl. 81—60.)

1. A wrench for operating a turntable member provided with a relatively movable part, comprising a handle having means for engaging the relatively movable part and a head member provided with a socket for engaging the turnable member and a socket in which the handle is



loosely mounted so that when the handle is turned the relatively movable part may be moved relatively to the turnable member.

1,400,906. FIRE-EXTINGUISHER. GEORGE T. PEARSONS, New York, N. Y. Filed Apr. 12, 1917, Serial No. 161,397. Renewed May 3, 1921. Serial No. 466,533. 3 Claims. (Cl. 169—27.)

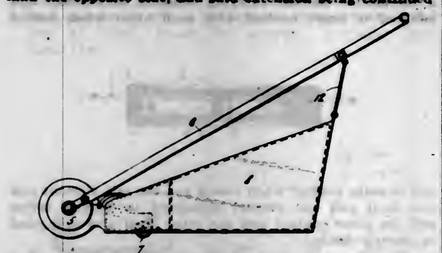


2. In a fire extinguisher, the combination of a pivotally supported reservoir; an evaporable fire extinguishing liquid in said reservoir; an outlet for the reservoir through the pivotal support of the reservoir leading from one end and the top of the extinguisher in the normal position thereof to at all times maintain the interior of the reservoir open to the atmosphere; a non-evaporable liquid of less specific gravity than the fire extinguishing liquid to float upon the surface of the fire extinguishing liquid and seal the fire extinguishing liquid from the atmosphere through the outlet in the normal upright position of the extinguisher; fusible means to retain the extinguisher in upright position and the fusing of said means permitting the extinguisher to assume an inverted position; and a gas generator in the reservoir to generate gas and place the fire extinguishing liquid under compression when the extinguisher is inverted for the purpose specified.

1,400,907. GRASS-CATCHER FOR LAWN-MOWERS. THOMAS A. POWELL, Nauvoo, Ill. Filed May 12, 1920. Serial No. 380,847. 1 Claim. (Cl. 56—190.)

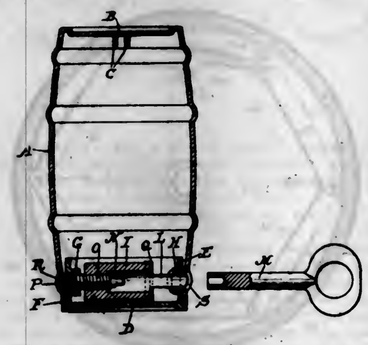
A grass catcher for lawn mowers comprising a basket-like receptacle having an extension on one side to project

laterally with respect to the mower for a greater distance than the opposite side, and said extension being continued



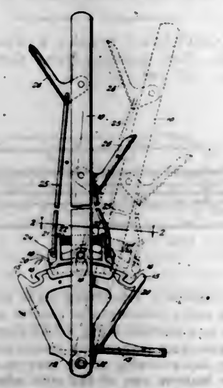
forwardly to terminate in advance of the main portion of the receptacle and alongside one end of the cutting reel.

1,400,908. LOCK. ARTHUR C. PRINCE, Chicago, Ill. Filed Feb. 21, 1921. Serial No. 446,689. 23 Claims. (Cl. 70—14.)



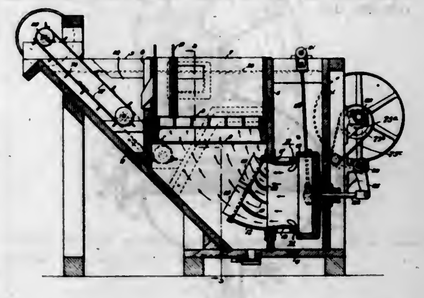
2. Closing means for an aperture, comprising a closure, a plurality of locking members mounted thereon, one member adapted to penetrate and be inclosed by the other, and means for increasing the total length of said members, to lock the closure against opposed sides of the aperture.

1,400,909. SAFETY-LOCK FOR LEVERS. CHARLES A. A. RAND, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Mar. 28, 1919. Serial No. 285,722. 13 Claims. (Cl. 74—89.)



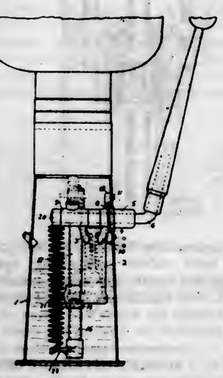
4. In combination, a sector, a pivoted lever adapted to move along the sector, and independently operated controlling means carried by the lever and cooperating with the sector to control the movement of the lever over different parts of the sector.

1,400,910. HYDRAULIC JIG-SEPARATOR. RASTUS S. RANSOM, Jr., Newark, N. J. Filed Apr. 2, 1920. Serial No. 370,671. 15 Claims. (Cl. 83—79.)



1. In a hydraulic jig-separator, the combination of a tank, an upright separating-compartment located therein, and having a stationary horizontal perforated bed-plate such as a screen to support a mass of the mixture to be separated, and having also two discharge-chutes located at different levels above said screen, a gate controlling the lower of said chutes, a vertically-positioned and vertically-adjustable shield located above said screen and between the upper and lower chutes aforesaid, a horizontally-disposed and upwardly-directing pump-tunnel having suitable inlet-valves and affording communication from said tank into the portion of said compartment below said screen, outlet-valves for said tunnel adapted to occupy vertical planes when opened, a vertically-disposed water-impelling member suspended pendulum-wise in front of the entrance to said tunnel to be reciprocable in substantially-horizontal direction, and means for reciprocating said impeller in strokes whose length is variable at will.

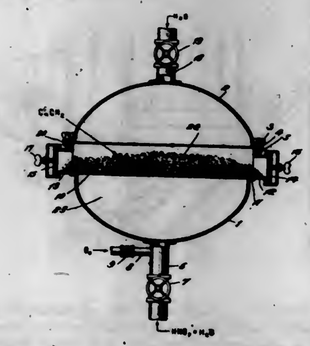
1,400,911. PUMPING ARRANGEMENT FOR TURBINE-DRIVEN SEPARATORS. LUDVIK RASCH, Christiania, Norway. Filed June 17, 1920. Serial No. 389,732. 2 Claims. (Cl. 103—65.)



1. In pumping apparatus for turbine driven separators, a frame having an opening in its wall, a bearing extending through said opening and having a flange secured to

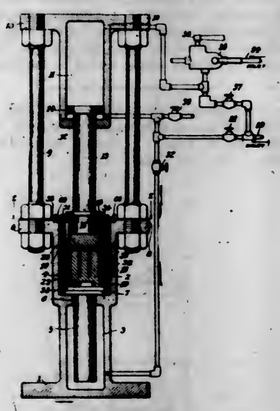
said wall, a driving shaft in said bearing, and a pump cylinder having ribs secured to said bearing and also having an ear secured to said frame.

1,400,912. PROCESS OF MAKING NITRIC ACID. JAMES HENRY REID, Pittsburgh, Pa., assignor to International Nitrogen Company, a Corporation of Delaware. Filed Sept. 10, 1917. Serial No. 190,483. 2 Claims. (Cl. 23—1.)



1. The process of making nitric acid which comprises subjecting nascent ammonia to the action of ozone.

1,400,913. MANUFACTURE OF HARD-RUBBER BATTERY-JARS AND SIMILAR ARTICLES. HERMAN SCHELHAMMER, Whitestone Landing, N. Y., assignor to American Hard Rubber Co., New York, N. Y., a Corporation of New York. Filed Sept. 20, 1921. Serial No. 502,040. 7 Claims. (Cl. 18—19.)



1. A mechanism for forming battery jars and similar articles of hard rubber comprising independent mold side members, the outer, upper and lower edges of which are cut away, and continuous detachable encircling bands arranged to engage the upper and lower cut away portions of said side members for holding the same together.

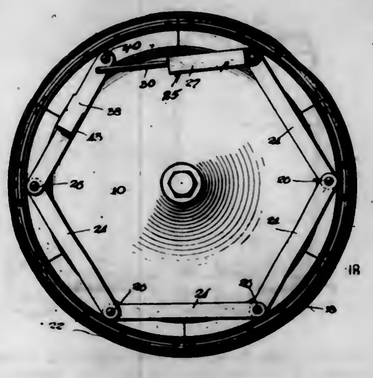
1,400,914. SOCKET-INTERRUPTER. MILTON H. SHOENBERG, San Francisco, Calif. Filed May 13, 1920. Serial No. 381,148. 3 Claims. (Cl. 200—122.)

1. A circuit interrupting device comprising an upper and a lower shell adapted to telescopically engage at their peripheries, insulating material between the shells, a thermostatic element carrying contacts constructed and adapted to break contact with each other when heated



and to make contact when cooled and the said element and one shell and one contact connected in electric series and the other contact and the other shell also connected in electric series.

1,400,915. EMERGENCY-TIRE FOR AUTOMOBILES. JULIUS HUGO SKOGMAN, Joplin, Mo. Filed Oct. 27, 1920. Serial No. 419,852. 7 Claims. (Cl. 152—23.)



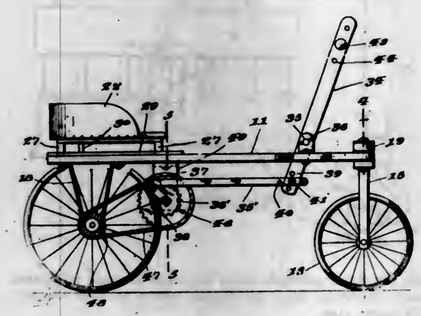
7. An emergency tire for vehicles comprising sections, links arranged on opposite sides of said sections and adapted for securing the sections in position, pivot elements extending through said sections and connected to said links, spring actuated plungers connected to one of said pivot elements, locking arms pivotally carried by said plungers and having sockets adapted for the reception of the adjacent links, and a tread element for the tire.

1,400,916. AIRPLANE. NORMAN R. SMITH, San Francisco, Calif. Filed June 30, 1920. Serial No. 392,919. 15 Claims. (Cl. 244—29.)



1. In an airplane a supporting plane parallel with the line of flight and consisting of a central member bounded on each side by a movable wing, a load suspended from the central member and connections from each wing to said load whereby the swinging of the load upon the tilting of the machine distorts one of the side wings to right the machine.

1,400,917. TOY VEHICLE. THOMAS W. SPAULDING, Baltimore, Md., assignor to Spaulding Ski-Kar Company, Inc., Baltimore, Md., a Corporation of Maryland. Filed Feb. 21, 1921. Serial No. 446,653. 1 Claim. (Cl. 208—113.)



A toy vehicle having a base or platform provided with front and rear supports, of which the former includes a steering fork, means for actuating the steering fork control the direction of progress of the vehicle, a seat supported by the base or platform near its rear end, propelling mechanism located beneath the base or platform, and actuating devices for the propelling means including a hand lever mounted upon the base or platform for oscillatory movement in a longitudinal vertical plane and a pitman extending from the lower end of said lever beneath the plane of the base or platform to the propelling mechanism, said seat being provided with depending chairs, the base or platform having parallel longitudinal guide bars for sliding engagement of said chairs, and a bolt carried by the seat for selective engagement with a series of openings in the base or platform.

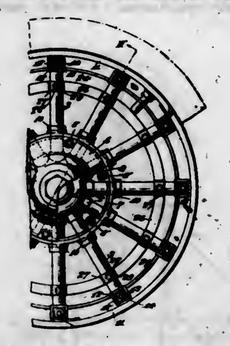
1,400,918. BOTTLE-CAP. ROBERT STOCK, Sandusky, Ohio. Filed Feb. 3, 1920. Serial No. 355,966. 2 Claims. (Cl. 215—45.)



1. A bottle cap having depending fingers, a resilient ring carried by said fingers developed into arms extending laterally therefrom and parallel to each other, and a disk rotatably fixed on one arm and having a slot for the reception of the other arm, said slot being arranged eccentrically with respect to the pivot, whereby the rotation of said disk will move the arms toward and away from each other and contract and expand the ring and fingers.

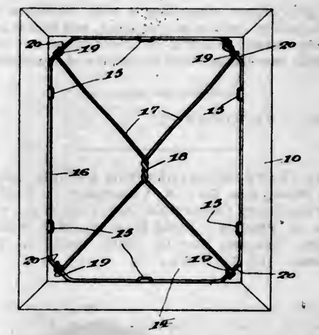
1,400,919. VEHICLE-WHEEL. ROBERT STOCK, Sandusky, Ohio. Filed Feb. 12, 1920. Serial No. 358,220. 6 Claims. (Cl. 301—8.)

1. The combination with a vehicle wheel having a hub, spokes therefor, and a tire rim, of a band, interposed between said hub and rim and located edgewise with



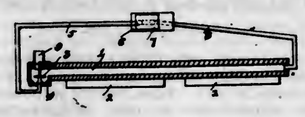
respect to the spokes for supporting the spokes intermediate the hub and rim.

1,400,920. PICTURE-FRAME ATTACHMENT. MYRTLE V. STROUD, Pink Hill, N. C. Filed May 7, 1921. Serial No. 467,749. 1 Claim. (Cl. 40—156.)



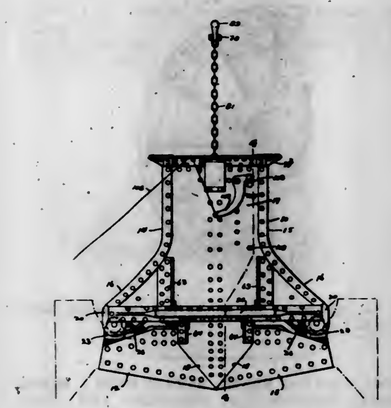
A device for preventing the card backing of a picture frame from warping, comprising a stiff wire frame arranged to fit within a puncture frame beneath the card holding nails thereof, and crossed and intermediately connected wires having their ends secured to the wire frame at the corners thereof and being longitudinally bowed for pressure against the center of the card backing.

1,400,921. MECHANICAL MUSICAL INSTRUMENT. HERSCHEL E. TOWER, Cincinnati, Ohio, assignor to The Baldwin Company, Cincinnati, Ohio. Filed May 8, 1920. Serial No. 379,956. 3 Claims. (Cl. 84—60.)



1. In a mechanical musical instrument; a pouch actuated valve; a socket under said pouch; a suction chamber; air connections from said socket to said suction chamber, and mechanical means for connecting said socket to the atmosphere and disconnecting said socket from said suction chamber.

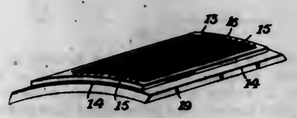
1,400,922. CRANE-HOOK GRAB-BUCKET. FRANK H. WILLIAMS, Buffalo, N. Y. Filed Dec. 8, 1919. Serial No. 343,305. 23 Claims. (Cl. 37—30.)



1. A grab bucket comprising a body, bucket segments, tracks carried by each bucket segment, and bucket segment supporting means carried by the lower corners of the body for slidable engagement with the tracks of the segments.

1,400,923. [WITHDRAWN.]

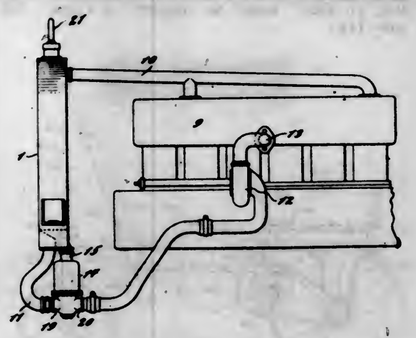
1,400,924. LATE-NEWS-PRINTING DEVICE. HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed May 10, 1917, Serial No. 167,628. Renewed May 16, 1921. Serial No. 470,200. 2 Claims. (Cl. 101—374.)



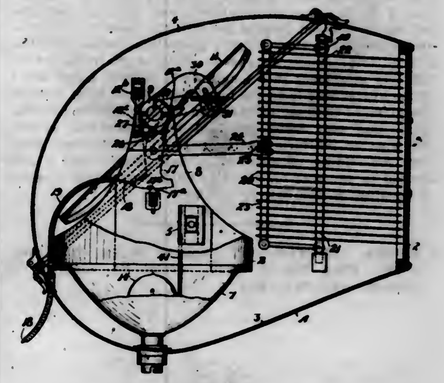
1. In a late news printing device, the combination of a chase adapted to be applied to a printing plate, said chase having a space for linotype slugs or the like and spaced notches in its end walls, a series of plates extending into and held by said notches for dividing the chase into sections for the reception of said linotype slugs, and rods supported by said chase and adapted to pass through the plates and linotype slugs to hold them in position.

1,400,925. COOLING AND INDICATING SYSTEM FOR INTERNAL-COMBUSTION ENGINES. AUSTIN M. WOLF, Plainfield, N. J. Filed Jan. 22, 1919, Serial No. 272,428. Renewed Mar. 18, 1921. Serial No. 453,481. 6 Claims. (Cl. 123—178.)

1. In a cooling system for internal combustion engines, the combination with the engine water jacket, of a radiator comprising an upper and a lower tank connected by a radiating core, water passages comprising a normal circuit including said core and the engine jacket and a by-passage to eliminate the core, and a thermostat to control the course of water flow in accordance with the temperature, the water passages being arranged to cause all heated water returning from the engine jacket to pass through said upper tank.



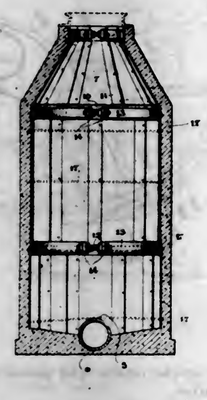
1,400,926. HEADLIGHT. WILLIAM G. WOOD, San Francisco, Calif., assignor to Berkeley Light Corporation, San Francisco, Calif., a Corporation of Nevada. Filed Aug. 5, 1918, Serial No. 248,802. Renewed Mar. 3, 1920. Serial No. 363,084. 16 Claims. (Cl. 240—41.)



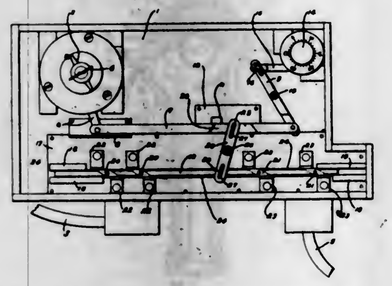
1. A headlight comprising a casing, a source of light in said casing, means coöperating therewith adapted to project a beam of substantially parallel rays, a concentrating reflector adapted to receive said rays and project the same through a transparent aperture in the casing, said reflector having means which will project a beam of light having a vertical focal or crossing line for the projected rays.

1,400,927. MANHOLE-FORM. FRANK L. YOUNG, San Antonio, Tex. Filed Nov. 6, 1920. Serial No. 422,214. 9 Claims. (Cl. 25—124.)

1. A form for hollow structures of plastic material with restricted outlets, comprising courses of units, the units of each series being so shaped that when their side edges are lapped they will conform to the cross sectional shape of the structure, and the units of one series being shaped to correspond with the cross sectional shape of the outlet, expansion rings within the units of the series for holding them from collapsing, the units of each series fitting at their lower ends within the upper ends of the units of the next lower series, and flexible bands encircling the units of the series to hold them against the rings, the units of each series having interlocking mechanism at their side edges for limiting the movement of the units on each other, said mechanism being omitted from one of the units for the purpose specified.



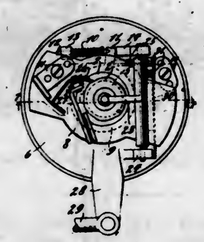
1,400,928. AUTO-LOCKING DEVICE. GEORGE ZINZEL, Bath, N. Y., assignor of one-half to Charles H. Moore, Bath, N. Y. Filed Sept. 28, 1920. Serial No. 413,436. 5 Claims. (Cl. 200—45.)



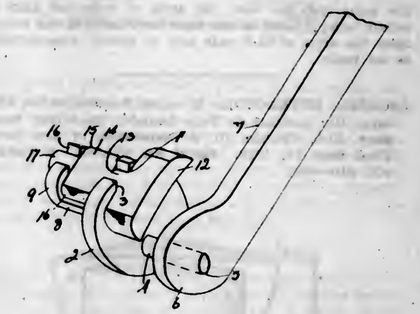
1. In a device of the class described, a pair of movable members; means for connecting said members operatively; permutation mechanism controlling the movement of one of said members; a circuit; means carried by the other of said members for opening and closing the circuit; and means for operating the first specified one of said members, said means including a switch interposed in the circuit.

1,400,929. CIRCUIT BREAKER AND CONTROLLER. JAMES C. ANDERSON, Rutherford, N. J., assignor to Varley Duplex Magnet Company, a Corporation of New Jersey. Filed Aug. 22, 1919. Serial No. 319,092. 12 Claims. (Cl. 200—19.)

1. For the ignition circuit of an internal combustion engine, a rotative shaft connected to be driven by the engine, a breaker cam carried by the shaft, a bearing sleeve for the shaft having a concentric external bearing surface, a bearing member adjustably bearing about the sleeve and having an eccentric external bearing surface, a breaker system including a cam follower controlled by the cam, and an angularly adjustable support for the breaker system bearing about the external surface of the bearing member.



1,400,930. PIPE-WRENCH. JAMES F. ASTLEY, Camden, N. J. Filed Jan. 5, 1921. Serial No. 435,114. 7 Claims. (Cl. 81—71.)



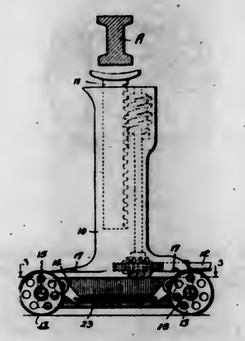
2. A wrench consisting of a supporting member, a bracket carried thereby, a gripping member journaled in the supporting member and bracket, an operating lever and means for detachably connecting said lever with the supporting member, said lever coacting with the gripping member to actuate the same.

1,400,931. ROLLER-BASE LIFTING-JACK. SYDNEY P. BARKER, New York, N. Y., assignor, by mesne assignments, to Arrow Grip Manufacturing Co., Inc., Glens Falls, N. Y., a Corporation of New York. Filed June 20, 1918, Serial No. 240,976. Renewed Jan. 28, 1919. Serial No. 273,690. 7 Claims. (Cl. 254—1.)

3. In a lifting jack, the combination of a rectangular base having holes formed therethrough parallel to the ends of the base, a pair of pivot members extending through said holes, an end pair of bell cranks mounted upon each pivot connection and adapted to oscillate in vertical planes adjacent to the corners of the base, an anti-friction roller carried by one arm of each bell crank, and coil springs connected to the arms of the bell cranks remote from the ends supporting the rollers and tending to project the rollers downward below the bottom of the base but yielding under the weight of the load brought to bear upon the jack to allow the base to bear directly and frictionally upon the ground.

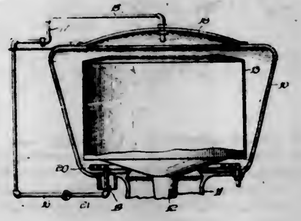
4. The herein described base for a lifting jack comprising a strong rigid load supporting member adapted to en-

gage directly and frictionally with the ground when loaded, a series of anti-friction rollers for the base, said rollers being disposed as side and end pairs, movable arms on which the rollers are journaled, pivot connections between



the arms and the base, the arms of each end pair of rollers being pivoted on the same axis, and a spring acting upon the arms of each side pair of rollers, substantially as set forth.

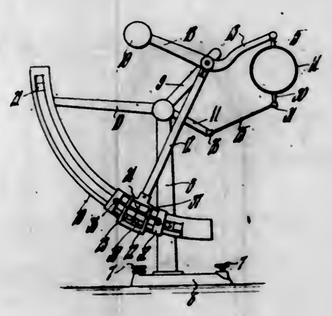
1,400,932. EXTRACTOR. WILLIAM BARTHOLOMEW, Chicago, Ill., assignor to Troy Laundry Machinery Company, Ltd., Chicago, Ill., a Corporation of New York. Filed Sept. 18, 1918. Serial No. 254,546. 2 Claims. (Cl. 210—66.)



1. In a centrifugal extractor, the combination of a revolubly mounted perforated container for the reception of cloths from which oils, fats or greases are to be extracted, a casing surrounding said container and having an opening for the discharge of oils, fats and greases extracted from said cloths, means for supplying steam from outside the casing to said container for cleaning the cloths, and a horizontally arranged steam coil located in said casing directly under the container for heating purposes and having a connection extending through said casing opening to keep the extracted material in a fluid state to facilitate its discharge through said opening.

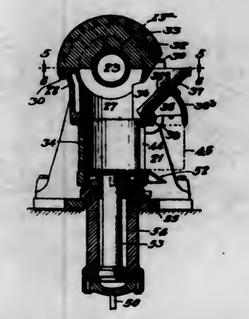
1,400,933. WEIGHING-SCALE. HENRY B. BARTLETT, Holyoke, Mass., assignor to B. F. Perkins & Son, Inc., Holyoke, Mass., a Corporation of Massachusetts. Filed Oct. 3, 1919. Serial No. 328,246. 7 Claims. (Cl. 265—61.)

1. In combination, a scale, a pointer mounted to swing along and adjacent said scale, and a rider frictionally held to and manually movable along the latter, said rider provided with longitudinally spaced projections extending



into the path of the pointer and arranged one on each side of the latter.

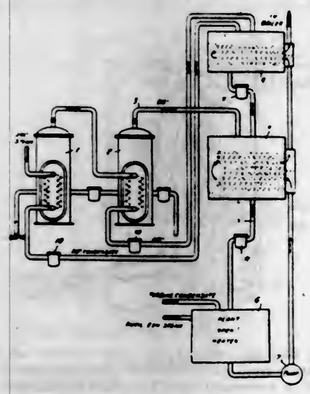
1,400,934. MACHINE FOR TREATING RUBBER AND SIMILAR MATERIAL. DAVID R. BOWEN and CARL F. SCHNUCK, Ansonia, Conn., assignors to Farrel Foundry and Machine Company, Ansonia, Conn., a Corporation of Connecticut. Filed Sept. 18, 1917. Serial No. 192,030. 51 Claims. (Cl. 18—2.)



13. In a rubber working machine, a combined pressure piston and discharge door.

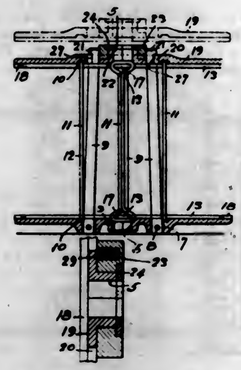
1,400,935. HIGH-HEAT-LEVEL EVAPORATOR SYSTEM. STANLEY BROWN, Garden City, N. Y., assignor to The Griscom Russell Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 26, 1920. Serial No. 353,999. 10 Claims. (Cl. 257—30.)

1. In a boiler feed system, the combination of a feed water heater, an evaporator plant, connections from the vapor line of the evaporator plant to the feed water heater whereby the heater serves as a condenser for the vapor, and a second feed water heater arranged to further heat the feed water, and connections from the heating chamber of the evaporator to said second heater whereby the drains



from the evaporator heating space serve as the heating medium for the second heater.

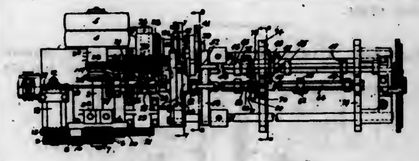
1,400,936. REEL-HOLDER. GEORGE E. BULL, Monessen, Pa., assignor to Pittsburgh Steel Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 10, 1920. Serial No. 395,243. 4 Claims. (Cl. 242—72.)



2. A wire-reel holder comprising oppositely arranged end-members, rods pivotally connected to only one of said end-members, elongated openings formed in the other end-member through which said rods pass, and a rotary cam-member on said last-named end-member adapted to engage the free ends of said rods and lock same in said elongated openings.

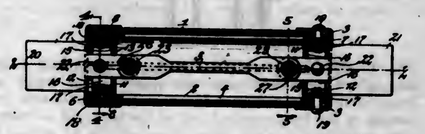
1,400,937. BALE-TIE MACHINE. GEORGE E. BULL, Monessen, Pa., assignor to Pittsburgh Steel Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 17, 1920. Serial No. 396,970. 9 Claims. (Cl. 140—73.)

1. In a bale-tie machine, the combination of feeding mechanism, cutting mechanism, bending and twisting mechanism, clamping mechanism comprising pivotally mounted clamping members, toggle-links connecting said members, a guide, a block in said guide, said toggle-links being connected to said block, a lever engaging said block,



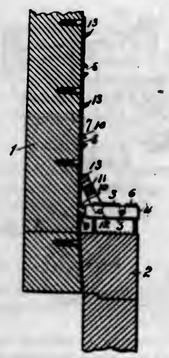
and a continuously rotating cam-member adapted to engage said lever.

1,400,938. FUSE. BERTRAM COLMAN CANDEE and WILLIAM NICKLIS PIERCE, Buffalo, N. Y., assignors to Pierce Fuse Corporation, Buffalo, N. Y., a Corporation of New York. Filed Oct. 16, 1917. Serial No. 196,941. Renewed May 20, 1920. Serial No. 382,928. 6 Claims. (Cl. 200—131.)



6. A fuse comprising inner and outer tubular casing sections of insulating material which are slidable lengthwise on each other and the inner section being provided with an opening for the introduction of a fuse into the casing and a longitudinal stop and guide slot, a stop and guide projection arranged on the outer casing section and projecting into said slot, and terminals mounted on opposite ends of said inner casing section and adapted to be connected within the casing by a fuse link.

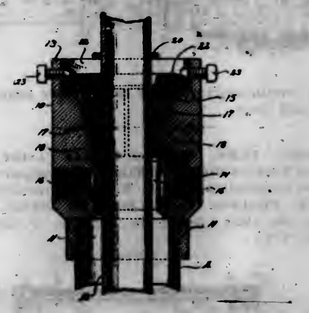
1,400,930. SASH-FASTENER. SYLVESTER LEE CARTY, Tuscumbia, Mo., assignor of one-half to Charles Roscoe Carty, Walnut Ridge, Ark. Filed Feb. 9, 1920. Serial No. 357,181. 4 Claims. (Cl. 292—57.)



1. In a sash fastener, the combination with two sash members, of a housing attached to one of said members, a bolt rotatably and slidably mounted in the housing, a locking member pivoted to the housing, and means attached to the other sash member for engaging the bolt

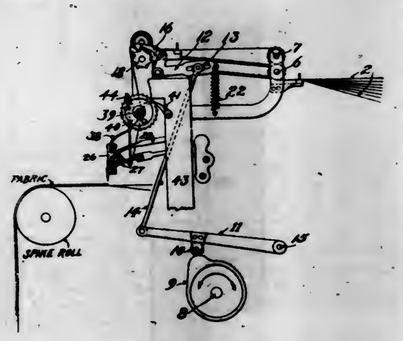
so as to hold the sash members from movement away from each other and for engaging said locking member to hold the sash members from vertical movement with respect to each other.

1,400,940. CASING-HEAD. CLEM S. CLARKE, Shreveport, La. Filed Aug. 28, 1920. Serial No. 406,554. 2 Claims. (Cl. 285—22.)



1. A well casing head comprising a cylindrical body having a longitudinal bore, the upper end of which is frusto-conical, co-acting tapered gripping elements arranged in the frusto-conical end of the bore and provided with serrations on their inner faces adapted to engage a well tube passing longitudinally through the casing head, an upstanding flange on the upper end of the casing head, a ring engaging the ends of the clamping elements and having its upper face beveled, and set screws carried by the flange and having their inner ends beveled and adapted to engage the beveled surface of the ring whereby to force the ring downwardly against the clamping elements to force the latter downwardly into positive engagement with the well tubing.

1,400,941. LOOM FOR WEAVING AXMINSTER CARPETS AND RUGS. CHARLES H. COLLINS, West Albany, N. Y., assignor to S. Sanford & Sons, Inc., Amsterdam, N. Y. Filed Feb. 15, 1921. Serial No. 445,060. 10 Claims. (Cl. 139—66.)



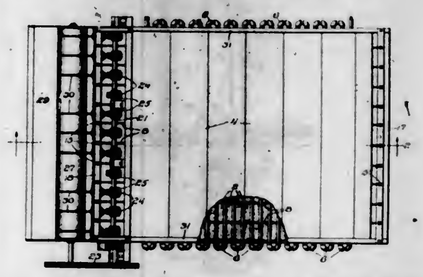
1. In a loom for weaving Axminster carpets and rugs, the combination with the usual weaving mechanism, of a positive tuft yarn feeding device driven therefrom and adapted to feed a fixed predetermined amount of tuft yarn during each cycle of the weaving mechanism, said device comprising two pairs of coacting rolls joined by an operative connection; and reeds, one mounted in the rear of each of said pairs.

1,400,942. TOY. WILLIAM L. DE HAVEN, Wichita, Kans., assignor to John W. Moyle, Augusta, Kans. Filed Feb. 7, 1921. Serial No. 443,287. 2 Claims. (Cl. 46—40.)



1. In a toy, the combination of an upright box having a transparent front and an upright partition spaced behind said front; a horizontal shaft journaled in the walls of the lower part of the box, an exterior hand-crank for rotating said shaft, a pulley on said shaft within the box, a rotary shaft journaled in the walls of the upper portion of the box and extending at right angles to the aforesaid shaft, a drive-belt passing around the upper shaft and said pulley, a crank on the upper shaft between said partition and the transparent front, and an articulated puppet comprising a head, trunk and limbs, the head being freely suspended from the crank on said upper shaft.

1,400,943. GLUING-MACHINE. ARMIN ELMENDORF, Madison, Wis., assignor to Haskelite Manufacturing Corporation, a Corporation of New York. Filed July 19, 1920. Serial No. 397,350. 8 Claims. (Cl. 144—279.)

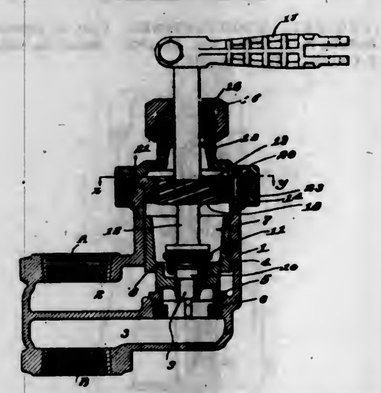


1. A machine of the character described comprising two work-engaging members arranged one above the other and having a width as great as the length of strips to be glued edge to edge, and feed rolls arranged at one end of said members to feed strips between the latter, said rolls each containing a plurality of sections yieldingly held to permit independent relative angular movements about the axis of the roll and at the same time be prevented from moving bodily transverse to said axis.

1,400,944. FLUID-CONTROLLING VALVE. HARRISON E. EVANS, Somerville, Mass., assignor to Manning, Maxwell & Moore, Inc., New York, N. Y., a Corporation of New Jersey. Filed July 24, 1920. Serial No. 398,634. 5 Claims. (Cl. 251—49.)

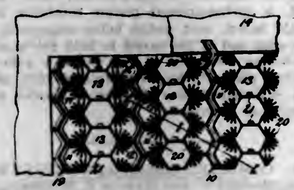
5. A valve device of the type described, having in combination an open ended casing, a valve stem extending axi-

ally of the open end of said casing and provided with a screw-threaded portion, a nut engaging said screw-threaded portion, a radial flange on said nut having a series of spaced openings therein, a fixed pin outstanding from the



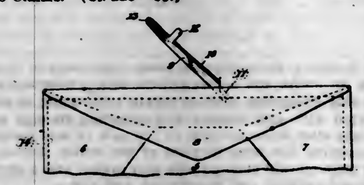
end of said casing and positioned for engagement with a selected one of said openings, and a cap having a bearing for said valve stem, said cap being constructed and arranged for threaded engagement with the upper end of said casing and to clampingly engage said flange.

1,400,945. RADIATOR UNIT. JOHN M. FEDDERS, Buffalo, N. Y., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y., a Corporation of New York. Filed Mar. 3, 1920. Serial No. 363,010. 4 Claims. (Cl. 257—128.)



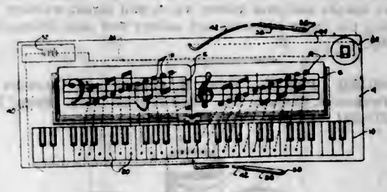
1. A radiator unit comprising a plurality of parallel tubes which are constructed from a single strip of metal and have their adjacent sides connected with each other, and which are provided with radiating fins struck integrally out of said metal strip.

1,400,946. ENVELOP-OPENER. BASIL FEDORKO, Ansonia, Conn. Filed Feb. 24, 1921. Serial No. 447,477. 6 Claims. (Cl. 229—86.)



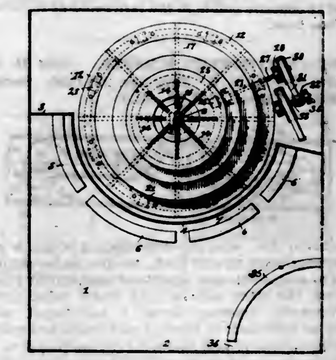
1. An envelop opener comprising a metal blade having a stirrup at one end for engagement with the upper edge of a letter so as to support the blade adjacent the fold line of an envelop closure flap, the blade having its other end formed to be projected through the fold line at one side of the envelop, whereby said end may be engaged for upwardly tilting and sliding the blade for severing the envelop along the fold line of said closure flap.

1,400,947. INDICATOR FOR MUSICAL INSTRUCTION. ELEANOR FENNELL, New York, N. Y. Filed June 23, 1920. Serial No. 391,014. 6 Claims. (Cl. 84—478.)



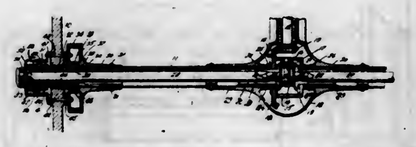
1. In apparatus for use in musical instruction, a chart having thereon a musical staff with notes on said staff, means representing the keyboard of a musical instrument with respect to which instruction is to be given, a signal, signal operating means comprising means connecting the notes on said staff with the keys on said keyboard, and independent means for connecting each with the signaling means and requiring independent selection of a note corresponding to the selected key, or vice versa, to produce a signal.

1,400,948. STORE. FRANK J. FLORENCE, Pensacola, Fla. Filed Aug. 27, 1921. Serial No. 496,871. 4 Claims. (Cl. 186—1.)



1. In a store of the class described, a rotary displaying mechanism, a partition arranged transversely of the store and provided with a curved portion arranged concentrically with the rotary displaying mechanism and encircling a portion thereof.

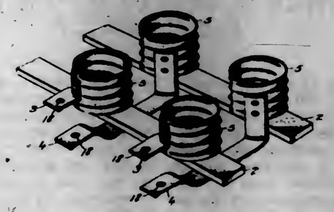
1,400,949. DRIVING-AXLE CONSTRUCTION. WILLIAM P. FREY, Buffalo, N. Y. Filed Nov. 22, 1920. Serial No. 425,611. 5 Claims. (Cl. 74—99.)



5. In a driving axle construction for motor vehicles, the combination of a differential gear drum, means for driving said differential drum, a housing for said differential gear drum and having inwardly extending collars at opposite sides within said housing and oppositely extending sleeves,

a pair of hollow axle shafts secured in said sleeves, a pair of differential gears in said gear drum, said gears having shanks projecting outwardly from said drum into said hollow axles in said sleeves, bushings interposed between said gear shanks and said hollow axles, and thrust washers between the inner edges of said collars and said differential drum.

1,400,950. PANEL. GUSS H. GNEISS and CHARLES J. PETERSON, Chicago, Ill. Filed Feb. 27, 1919. Serial No. 279,571. 1 Claim. (Cl. 175—298.)



A panel board for electric distribution including bus bars, sockets associated with said bus bars, and distributing terminals leading from the sockets, said sockets being arranged in tandem crosswise of the board and the terminals being arranged in pairs lengthwise on a given side of the board within a space defined by planes tangential to a socket at opposite points in the latter and at right angles to the bus bars.

1,400,951. BOILER-FLUE SCRAPER. JOHN H. GOODFELLOW, Buffalo, N. Y. Filed Nov. 22, 1920. Serial No. 425,926. 9 Claims. (Cl. 83—64.)



1. A boiler flue scraper, comprising a shaft, a saddle slidable lengthwise on said shaft, scraper blades pivoted at one end to said saddle and capable of independent yieldable movement, the other ends of said blades being provided with forwardly tapering horns, a bell-shaped member mounted on said shaft in front of said saddle and cooperating with the horns of said blades for contracting them upon the movement of said saddle toward said bell-shaped member, and means for permitting expansion of said blades when said saddle is moved in the opposite direction.

1,400,952. BED. IDALS L. HADLEY, Hartford, Conn. Filed Sept. 22, 1921. Serial No. 502,467. 9 Claims. (Cl. 5—18.)



1. The combination of a bedstead to be used in connection with a receptacle having a door swinging on a vertical pivot, for closing or opening the receptacle, the bedstead being mounted in the receptacle and removable therefrom when the door is opened, and an article of furniture so mounted on said bedstead as to be inclosed in the receptacle when the door is shut.

1,400,953. HOOD-FASTENER. CARL R. HENNICKE, Buffalo, N. Y. Filed Nov. 10, 1920. Serial No. 423,065. 3 Claims. (Cl. 292—247.)



1. A fastener of the character described, comprising a barrel having a lower open end provided with oppositely disposed downwardly projecting lugs, a fastening plate adapted to coöperate with said lugs to form a pivotal mounting for said barrel and partially close said lower open end, a spring-pressed piston rotatably supported within said barrel, said piston being engageable through the lower open end of the barrel to hold the same against rotation during assembly of the parts, a yoke on said piston, a cam pivotally supported in said yoke, and a post having a cam-shaped face adapted to receive said cam, substantially as described.

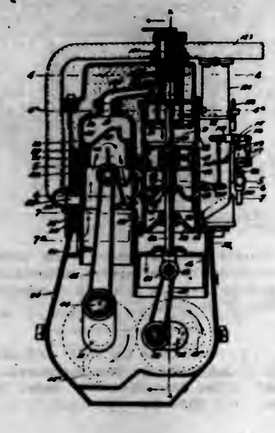
1,400,954. COMBINED BRUSH AND SUPPLY-HOLDER. JOHN E. HOLLOWAY and HAROLD E. BURWELL, Milford, Conn. Filed Mar. 23, 1921. Serial No. 454,716. 20 Claims. (Cl. 132—84.)



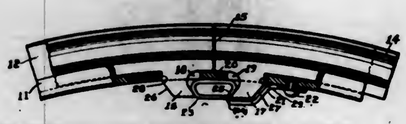
20. A holder for collapsible tubes comprising a casing having an outlet and a longitudinal slot, a substantially ovoid tube collapsing member within said casing, a stem connected with said member and extending through said slot, said stem being inclined to the axis of said member and engaging the same forward of the center thereof, a finger piece on said stem outside said casing, and a spring interposed between said finger piece and casing.

1,400,955. INTERNAL-COMBUSTION ENGINE. JAMES JESSEN, Minneapolis, Minn. Filed Aug. 16, 1919. Serial No. 318,005. 28 Claims. (Cl. 123—119.)

1. A gas converter and inductor for internal combustion engines, comprising two compression chambers and a piston working in said chambers, means for supplying air and fuel to said chambers, a connecting conduit between said chambers, a valve automatically controlling the pressure in said chambers and conduit, a passageway in said piston, periodically connecting said conduit to the combustion cylinder of the engine, and a port to said passageway controlled by said piston.



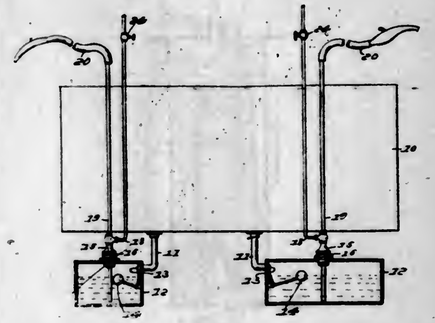
1,400,956. RIM. OTTO H. JOSSKI, Cleveland, Ohio, assignor to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 14, 1919. Serial No. 310,793. 3 Claims. (Cl. 152—21.)



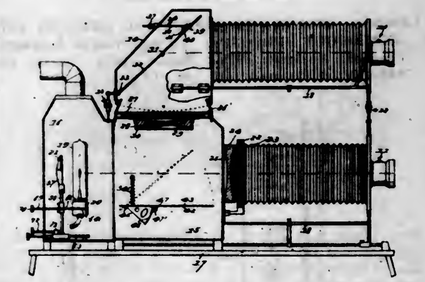
1. The combination of a tire-carrying rim having a pair of radial apertures separated by a web; a transversely split side ring detachably fitted to said rim and provided with lugs adjacent its ends adapted to project through said apertures, and having recesses in their adjacent faces; and a latch of uniform width throughout pivoted to said rim and having a head at one end adapted to be swung between said lugs to engage said web and said lugs to lock said ring in seated position.

1,400,957. LIQUID-EXTRACTOR. ORION W. JUDD, Paducah, Ky. Filed Oct. 7, 1920. Serial No. 415,313. 2 Claims. (Cl. 221—74.)

1. A liquid fuel supply apparatus for vehicles having a storage tank, a measuring tank of a definite capacity connected with the storage tank by a supply pipe, a float controlled valve for the supply pipe opening inwardly with reference to the measuring tank, a coupling having a bore in communication with the measuring tank at its top and provided with a lateral airline connection, and a delivery tube extending axially through the bore of the coupling to a point near the plane of the bottom of the measuring tank.



1,400,958. STEREOPTICON. WILLIAM H. KELLY, San Francisco, Calif. Filed Sept. 25, 1919. Serial No. 326,145. 7 Claims. (Cl. 88—26.)

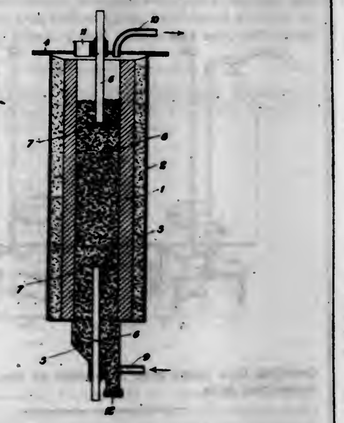


1. A duplex stereopticon consisting of a duality of superposed lens tubes having lenses and provided with means for focusing said lenses on a common remote point, a housing with which the lowermost lens tube is connected, a condenser lens mounted in the forward wall of the housing, a condenser lens monuted in the top wall thereof, a source of light disposed in alinement with the lowermost lens tube, means for deflecting the light from said source through the condenser lens in the top of the housing, and means for reflecting the deflected rays through the upper lens tube.

1,400,959. PROCESS AND APPARATUS FOR CARRYING OUT CHEMICAL REACTIONS BY CATALYSIS. JOSEPH KOETSCHET, Lyon, France, assignor to Societe Chimique des Usines du Rhone, Anciennement Gilliard, P. Monnet et Cartier, Paris, France. Filed Apr. 26, 1919. Serial No. 292,947. 2 Claims. (Cl. 204—31.)

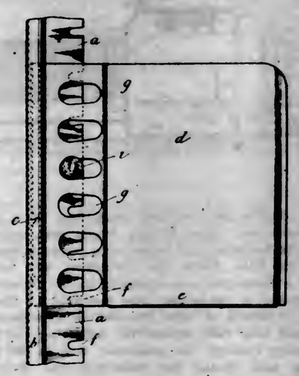
1. The process of producing gaseous chemical reactions by catalysis, which consists in passing the reacting gases through a uniformly heated zone formed solely by a thoroughly mixed mass of divided substances, said mass being formed of material adapted to promote chemical reactions by catalysis and to be heated solely by the passage of an electric current through said mass

to a uniform temperature suited for the catalytic reaction without any other auxiliary source of heat except that



furnished by the reacting gases themselves, the said divided mass thus performing the combined functions of a heating resistance and a catalyst.

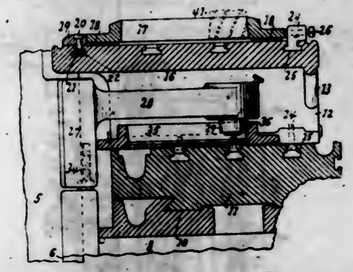
1,400,960. **MEANS FOR SUPPORTING SHELVES AND ANALOGOUS PURPOSES.** ARTHUR WRENN LAMBERT, Croydon, England. Filed Feb. 8, 1921. Serial No. 443,353. 6 Claims. (Cl. 248—19.)



1. Means of the kind described comprising a support having a guideway, and a series of openings spaced apart with a given pitch, a member adapted to slide along such support under the control of the guideway and having a series of openings spaced apart with a different pitch, and a member adapted to enter any pair of companion openings brought into register, substantially as described.

1,400,961. **PROFILING ATTACHMENT FOR MILLING-MACHINES.** CHARLES W. LANG, Brooklyn, N. Y. Filed Jan. 16, 1920. Serial No. 351,871. 6 Claims. (Cl. 90—13.)

1. In a profiling attachment for milling machines the combination with a movable table having a work support mounted thereon, and a cutter arranged above the table for shaping the work, of a master form carried by the table, a support for the table, and means including an adjustable bracket with a master form guide mounted thereon connected to the support cooperating with the form for guiding the work in a path corresponding to the configuration of the form.



1,400,962. **PROCESS OF AND APPARATUS FOR DRILLING OIL-WELLS.** ROY E. LEONARD, Los Angeles, Calif. Filed Mar. 9, 1920. Serial No. 364,748. 5 Claims. (Cl. 255—1.)



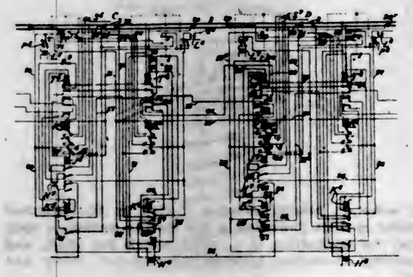
1. A process of drilling oil wells which comprises continuously maintaining a pressure in excess of the hydrostatic pressure produced by a body of fluid filling the well without circulation on the well and reciprocating a cutting bit in the well.

1,400,963. **OPERATION OF BLAST-FURNACES.** VASILI LIZOUNOFF, Pittsburgh, Pa., assignor to Martin A. Rossnoff, Pittsburgh, Pa. Filed Apr. 27, 1920. Serial No. 377,105. 5 Claims. (Cl. 75—45.)

1. The method herein described of producing ferro-silicon in a blast furnace which consists in conducting the blast-furnace operation upon a furnace charge composed of blast-furnace slag, coke, and heating-furnace cinder.

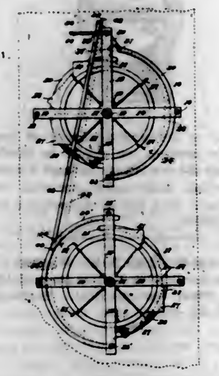
1,400,964. **RAILWAY-TRAFFIC-CONTROLLING APPARATUS.** RONALD A. MCCANN, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Apr. 28, 1919. Serial No. 292,136. 20 Claims. (Cl. 246—33.)

12. In combination, a section of railway track, two sources of alternating current located adjacent the ends of said section, and means controlled by a train entering the section from either end for causing current to flow in



the same direction along the two track rails of the section from the source at the opposite end.

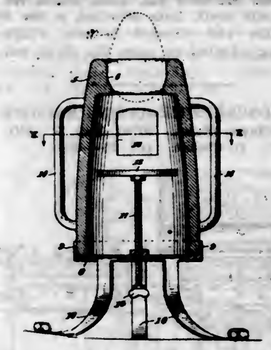
1,400,965. **CURRENT-MOTOR.** WILLIAM J. MCGAVOCK, Memphis, Tenn. Filed Dec. 16, 1919. Serial No. 345,282. 4 Claims. (Cl. 170—122.)



1. A power plant comprising adjacently positioned current wheels adapted for revolution in opposite directions, feathering means for the blades thereof, positioning guides lying in the same plane with the upper end of the feathering means adapted for receiving the blades from said feathering means, whereby the plant is rendered inoperative and simultaneous actuating means for said guides.

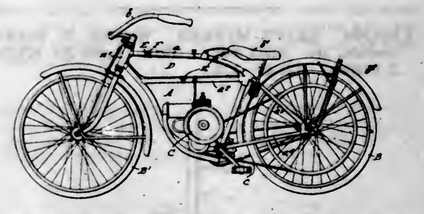
1,400,966. **EGG-TESTER.** JANN K. MARTINKA and ELIZI K. MARTINKA, New York, N. Y., assignors of one-third to Martin Tomecek, New York, N. Y. Filed Dec. 6, 1920. Serial No. 428,542. 1 Claim. (Cl. 99—6.)

An egg tester including an upright receptacle having a tubular body portion provided with an open upper end formed interiorly to conform to a portion of an egg for providing a supporting seat therefor and provided with a sight opening in the side thereof immediately below the open upper end, a detachable bottom plate, carrying supporting legs, for the said tubular body, a removable reflector within the body portion and vertically adjustable therein, and a single supporting bar centrally attached



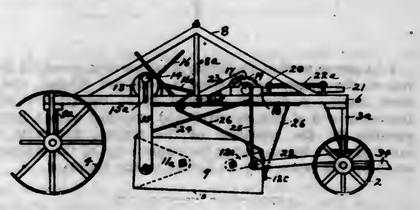
to said reflector and screw-threadedly mounted within the central portion of the removable body plate.

1,400,967. **MEANS FOR SECURING ARTICLES TO MOTORCYCLES AND THE LIKE.** JOSEPH F. MERKEL, Rochester, N. Y., assignor to Cyclemotor Corporation, Rochester, N. Y. Filed Nov. 22, 1920. Serial No. 425,677. 7 Claims. (Cl. 206—45.)



1. The combination with the frame of a motor cycle and a fuel tank, of a fastening device for securing said tank to said frame, including a member secured to said tank and having a part extending into contact with said frame, said member having a slot adjacent to said frame, and a strap extending through said slot and around a frame member and around said part and securing said part to said frame.

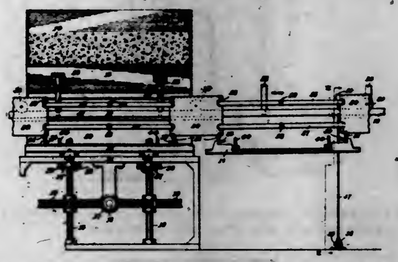
1,400,968. **LEVELER AND DIRT-SCRAPER.** LOUIS JAMES MITCHELL, Dinuba, Calif. Filed June 29, 1920. Serial No. 392,869. 5 Claims. (Cl. 214—68.)



1. In a leveler of the character described, the combination of a rectangular frame supported on wheels, a windlass operated by a ratchet journaled transversely across said frame, and a shaft having enlarged ends with eccentric pins therein journaled to said frame parallel

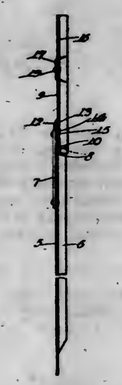
with said windlass, a scraper, hangers pivoted at one end to the rear of said scraper and at the other end pivoted to said eccentric pin, hand means for moving and locking said shaft, lines attached to the front end of said scraper and attached to said windlass, said windlass being adapted to raise the front end of said scraper.

1,400,969. CONCRETE-TIE-MAKING MACHINE. JOHN NELSON, Ottawa, Kans. Filed May 7, 1921. Serial No. 467,727. 10 Claims. (Cl. 25—45.)



1. A tie making machine comprising cement feeding means, movable mold jaws adapted to receive the cement from the feeding means, automatic operating means for the jaws adapted for engaging the cement during operation, and means adapted for positioning a reinforcing member between the jaws for embedding in the finished tie.

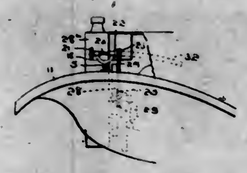
1,400,970. GRAVE-MARKER. WILLIAM F. NORMAN, Nevada, Mo. Filed Sept. 4, 1919. Serial No. 321,518. 3 Claims. (Cl. 40—125.)



1. A grave marker including a supporting standard having at the upper end thereof a bendable tongue, and a cross having a portion adapted to fit coextensive with the upper end of the standard and provided with a linked opening for the reception of the tongue, and with an integral cleat for engaging the upper edge of the standard whereby the cross may be locked to the standard.

1,400,971. MOTOR-VEHICLE ATTACHMENT. FRANK H. NYE, Warsaw, Ind. Filed Nov. 18, 1919. Serial No. 338,957. 6 Claims. (Cl. 180—53.)

6. In a motor vehicle attachment, a pair of companion vehicle fender engaging bracket members, a fender engaging hook carried by the terminal of one of the members, socket members carried by the bracket members, a spherical member adjustably mounted in the socket, means for securing the spherical member in adjusted position in



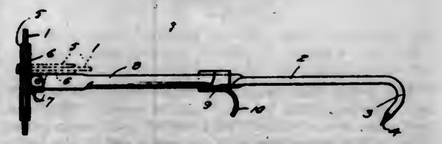
the socket, a bearing member carried by the spherical member, a shaft journaled in the bearing member, a split pulley for application to a motor vehicle fan shaft, and a driving connection between the two-part pulley and shaft.

1,400,972. METHOD OF AND APPARATUS FOR FEEDING FLUIDS. CHRISTOPHER OFFENHAUSER, Philadelphia, Pa. Filed Aug. 10, 1920. Serial No. 402,585. 16 Claims. (Cl. 23—1.)



1. The method of forming a charge of condensed gas, which consists in passing the gas to be condensed into a container, passing the container through a cooling medium, and lastly injecting fluid under pressure into the container to commingle with the condensed gas and discharge it from the container.

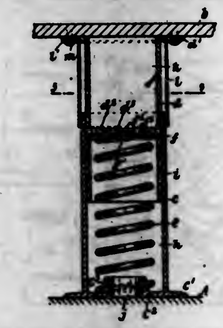
1,400,973. CREAM-SEPARATOR. WARREN N. OPT, Tiffin, Ohio, assignor to Charles I. Strauss and Charles Bond, Tiffin, Ohio. Filed Apr. 1, 1921. Serial No. 457,600. 1 Claim. (Cl. 31—85.)



A cream separator comprising a flexible disk, complemental bars having the disk secured therebetween, a stem having pivotal connection with one of said bars and having its outer end of hook formation and terminating in a point and having the intermediate portion made rounding, and a handle adjustable longitudinally and angularly upon the rounded portion of the stem.

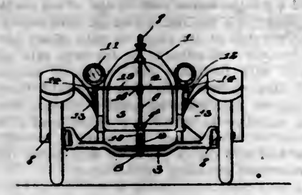
1,400,974. SEATING APPLIANCE. FRED G. PARKER, Paterson, N. J. Filed Apr. 21, 1921. Serial No. 463,233. 3 Claims. (Cl. 155—52.)

1. The combination, in a seating appliance, of upper and lower members telescoped one into the other and together forming entirely below the upper member a pneumatic-cushion space having restricted means to allow efflux therefrom and influx thereto of atmospheric air, and a



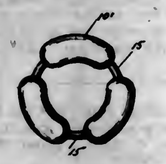
spring for normally holding the upper member elevated, one member inclosing an air-retreat space having restricted communication with the first-named space.

1,400,975. DIRIGIBLE HEADLIGHT FOR MOTOR-VEHICLES. HENRY BENJIMAN PAGE, Greenville, Miss. Filed Oct. 11, 1920. Serial No. 415,990. 1 Claim. (Cl. 240—62.)



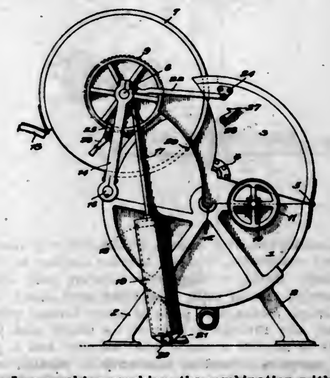
The combination with a signaling device for an automobile, the signaling device including a vertical rod journaled in advance of the radiator and provided at its lower end with a vertical slot, a signal member on the upper end of said rod, and a forwardly extending operating arm clamped upon the steering arm connecting rod; a dirigible head lamp construction including a pair of head lamps rotatably mounted in brackets secured upon the automobile frame, the standards of the lamps being provided with forwardly extending arms connected by a rod, and a forwardly extending arm secured upon said vertical rod and pivotally connected with said last named connecting rod whereby the operation of the signal member and the turning of the head lamps will be simultaneous.

1,400,976. LIFE-SAVING DEVICE. WILLIAM G. PARMELE, Seattle, Wash. Filed Jan. 11, 1921. Serial No. 436,519. 1 Claim. (Cl. 9—17.)



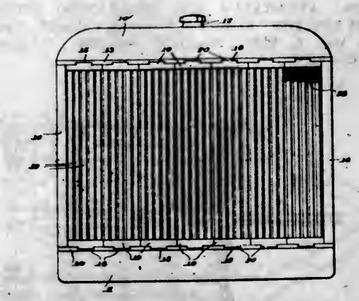
A life saving apparatus consisting of a continuous buoyant body passable over the head of the wearer and contractile about the neck to assume a position intermediate the head and shoulders, and said body having a reduced elastic portion to facilitate contraction and expansion.

1,400,977. WASHING-MACHINE. EMANUEL J. PERRY, New Bedford, Mass. Filed Sept. 9, 1920. Serial No. 409,148. 12 Claims. (Cl. 68—18.)



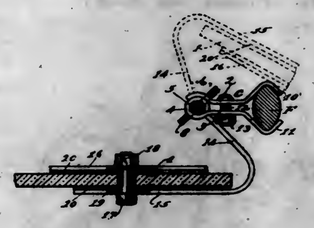
6. In a washing machine, the combination with a casing, of a cylinder therein, means for supporting said cylinder in the casing for a rotary movement, means for pivotally connecting the cylinder to the casing to permit the same to be swung from the casing, and power means for moving said cylinder from said casing, said power means comprising a fluid motor.

1,400,978. RADIATOR. MORRIS POLNOROFF, Philadelphia, Pa., assignor of one-half to Morris Abel, Philadelphia, Pa. Filed Feb. 14, 1921. Serial No. 444,787. 3 Claims. (Cl. 257—129.)



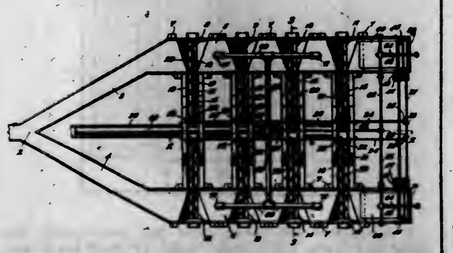
1. A radiator comprising upper and lower tanks, the upper and lower tanks being closed at their lower and upper surfaces respectively by means of plates formed with hollow extensions communicating with the tanks, said plates being formed in their confronting faces with grooves, a series of vertically disposed tubes disposed between said tanks, pan-like heads carried by and communicating with the upper and lower ends of said tubes and formed with extensions fitting within said grooves, extensions formed on said plates and provided with openings communicating with the respective tanks, said last named extensions being provided in registration with said grooves with openings and tubes carried by said pan-like heads passing through said openings and carrying retaining caps.

1,400,979. AUXILIARY WINDSHIELD FOR VEHICLES. THOMAS B. POWELL and CHARLES S. MCLEAN, Long Beach, Calif., assignors, by mesne assignments, to Thomas O. Osborn, Los Angeles, Calif. Filed Aug. 27, 1919. Serial No. 321,961. 3 Claims. (Cl. 296—84.)



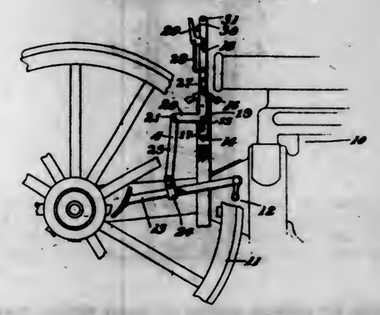
1. In combination with a main windshield of a vehicle, an auxiliary windshield, a shield holding member fixed to said auxiliary shield, a clamp for securing said shield holding member to said main windshield, said clamp comprising a single rectangular piece of metal formed with a longitudinal slot through a part of its length and bent upon itself to provide a single solid member and a pair of spaced mmebers extending substantially parallel with said solid member, said piece of metal bent to encompass a bolt at its bent end, all of said members formed with bent outer ends adapted to be drawn together to engage the frame of the main windshield, screws adapted to draw said spaced members toward said solid member, a bolt passing between said spaced members and said single member; said shield holding member looped around said bolt intermediate of said spaced members; and a nut on said bolt adapted on being advanced on said bolt to press said spaced members together to lock said shield holding member against turning.

1,400,980. APPARATUS FOR SEPARATING SOLIDS FROM LIQUIDS. SAMUEL R. PURYEAR, Columbia, Tenn. Filed Mar. 5, 1921. Serial No. 449,868. 6 Claims. (Cl. 83—81.)



1. In an apparatus of the class described the combination of a liquid passage provided with a plurality of depressions adapted to facilitate the settling of solids suspended in said liquid; means adapted to supply an additional quantity of liquid to said passage; automatic means actuated by the flow of liquid through said passage for controlling said supply means; means comprising inclined screw conveyers adapted to remove the solids from said depressions and to raise them above the normal liquid level in said passage; and means adapted to receive said solids from said conveyers, substantially as described.

1,400,981. CLUTCH-PEDAL ATTACHMENT FOR TRACTORS. ERIC R. PUSANO, Boone, Nebr. Filed Nov. 11, 1919. Serial No. 337,354. 2 Claims. (Cl. 74—39.)



1. The combination with a power driven tractor having a rewardly extending depressible clutch pedal normally urged upwardly to close the clutch, a strap bracket adapted to be secured in substantially vertical position on the tractor above the clutch pedal, a notched sector secured across the outer face of the strap bracket, said bracket being offset outwardly below said sector and concentrically thereto and with the outer face of the offset portion substantially flush with the outer face of said sector, a bell crank lever pivoted at its angle to said offset portion of the strap bracket and adapted to traverse said sector at one end and with its other end extending substantially horizontally in a rearward direction from said clutch pedal, a locking dog on said lever adapted to engage the sector for locking the lever in adjusted position, and a link pivotally connected between said horizontally extending end of the lever and said clutch pedal for depressing the latter upon the rearward swinging of the lever.

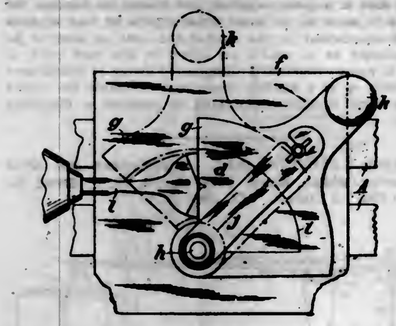
1,400,982. COTTON-SCRAPER. JAMES D. RAMSEY, Tishomingo, Miss. Filed Aug. 13, 1920. Serial No. 403,246. 2 Claims. (Cl. 97—9.)



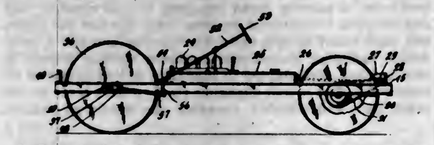
2. A scraper attachment for agricultural implements consisting of an open blade substantially V-shaped at its forward edge and disposed with its opening facing the implement, the blade having a substantially tapered lowered portion widest at the front, attaching means extending from the upper portion of the blade and the upper portion extending rearwardly and inwardly beyond the lower portion.

1,400,983. TONE-ARM FOR SOUND-REPRODUCING MACHINES. ARTHUR ROBERT RANDALL, Ealing, England. Filed Feb. 6, 1920. Serial No. 356,591. 1 Claim. (Cl. 144—309.)

A method of making a plurality of hollow wooden tone arm elbows, which consists in forming each of a plurality of blocks in the shape of a fraction of an annulus, boring a curved passage through each of said blocks having the same diameter throughout, securing the blocks together to form an annulus, and shaping the exterior of said annulus.

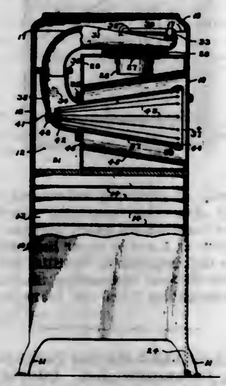


1,400,984. MOTOR-VEHICLE FOR TRAVERSING MARSH-LANDS. MALCOM RAY, Orange, Tex. Filed Oct. 13, 1920. Serial No. 416,600. 4 Claims. (Cl. 180—20.)



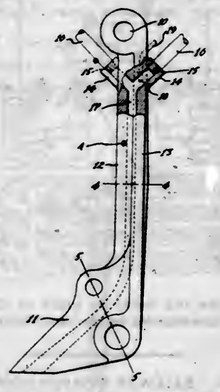
1. In a device of the class described, a main frame, an engine mounted therein, a plurality of water-tight rotatable drums, means for driving the drums from the engine, an additional drum mounted to rotate normally on an axis extending perpendicularly of the longitudinal axis of the frame, and means for varying the angular position of the additional drum and comprising a steering shaft, a shaft actuated thereby, oppositely turned crank elements carried by the shaft last named, mounting means for the additional drum, and elements connecting the mounting means with the crank elements.

1,400,985. PHONOGRAPH-AMPLIFIER. JOSEPH A. RAYDER, Philadelphia, Pa. Filed Jan. 17, 1921. Serial No. 437,854. 2 Claims. (Cl. 181—27.)



1. In a phonograph, an amplifier, strings disposed about its inner surface and means for adjusting said strings simultaneously.

1,400,986. BRAKE-HANGER. JESSE F. RILEY and BLAIR S. FOCKLER, Hagerstown, Md. Filed Dec. 6, 1920. Serial No. 428,719. 5 Claims. (Cl. 188—205.)



1. A hanger of the character described having a longitudinally disposed bore opening at the lower end of the hanger, and adapted to convey sand through the hanger, said bore opening at one side of the hanger adjacent its upper end, and means for securing a sand supply pipe to the hanger at the inlet opening of the bore.

1,400,987. DISPLAY-STAND. NICHOLAS RIPPENBEIN, New York, N. Y. Filed Jan. 15, 1921. Serial No. 437,462. 7 Claims. (Cl. 211—24.)

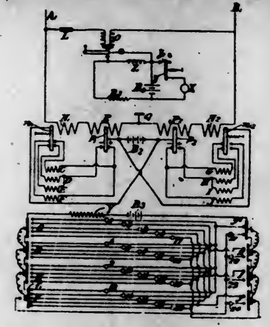


1. A folding display stand, comprising a single strip of material bent along suitable lines to present a base, an inclined back having its lower end supported on the base, a platform sloping downwardly from its forward to its rear end and forming a continuation of the back, and a brace connected to the base and supporting the forward end of the platform at an elevation above the base, means integral with the back and engageable with the base for supporting the back in inclined position.

1,400,988. PRINTING-TELEGRAPH. FOSTER RITCHIE, Ealing, England. Filed Aug. 6, 1918. Serial No. 248,617. 6 Claims. (Cl. 178—33.)

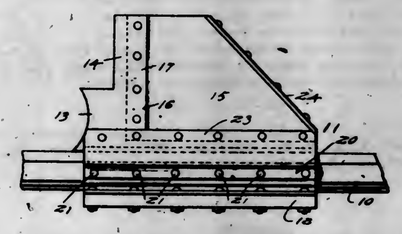
1. A printing telegraph in which the impression of a character may be effected by the actuation of a single key at the transmitting station and in which direct currents of different polarity and strength are transmitted and received independently and simultaneously

over the leads of a two wire line, a polarized and a neutral relay inserted in each of the said leads at the



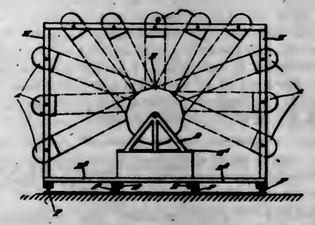
receiving station and means by which an alternating current may be superimposed on the direct current traversing each lead.

1,400,989. RAILWAY BUMPER-BLOCK. CHARLES ROBERTS, Portsmouth, Ohio. Filed Apr. 12, 1921. Serial No. 460,765. 1 Claim. (Cl. 104—254.)



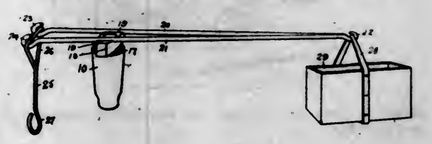
A railway track bumper having rail engaging chairs, a side block arranged in the vertical planes of the rails, marginal metallic frames embracing the side block and having connection with the rail chairs, and a draw head bumper member transversely disposed between the planes of the said marginal frames and attached to said marginal frames, the latter being extended longitudinally of the rails beyond the plane of the draw head bumper member to provide terminal wheel stops.

1,400,990. PROJECTION OR DISTRIBUTION OF LIGHT. JOSEPH THEODORE ROBIN, Streatham, London, England. Filed Sept. 14, 1918. Serial No. 254,113. 12 Claims. (Cl. 240—3.)



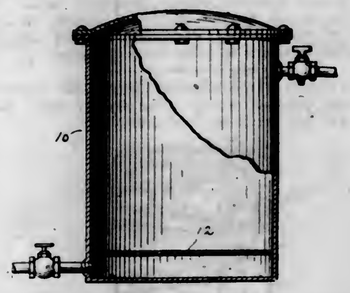
1. Apparatus for producing an illuminating area or zone for the location of aircraft comprising several powerful light projectors such as searchlights for producing a number of pencils or beams of light of high intensity, means whereby the beams are directed upwardly in the same zone or angular position, and means for causing the beams to move in the same definite path or zone at such speed in relation to the size of the area or zone to be illuminated as to enable an object in the said path or zone to appear constantly illuminated owing to persistence of vision or at a slightly less speed to enable the object to be very rapidly illuminated to produce a flickering effect.

1,400,991. STUFFING-BOX. ROY ROGERS and MILE GROVES, Midian, Kans. Filed Nov. 4, 1920. Serial No. 421,794. 2 Claims. (Cl. 286—32.)



1. A device of the class described associated with a well tube and its polish rod and discharge branch and comprising a tubular body adapted to be attached to the well tube, a packing gland engaging in said tubular body and adapted to compress packing rings against the polish rod, said gland having upwardly opening notches, a lever device including spaced side members bearing loosely in said notches, and adapted to support a weight device at its longer end, and a link engaging the two part lever at the other end, and slidably engaging the discharge branch.

1,400,992. PROCESS OF TREATING COFFEE-BEANS AND OTHER SUBSTANCES AND PRODUCT RESULTING THEREFROM. NATHAN ROSENWATER, Cleveland, Ohio. Filed Aug. 2, 1920. Serial No. 400,821. 3 Claims. (Cl. 99—11.)

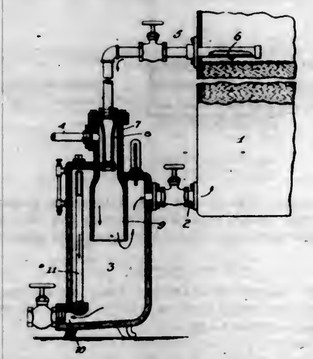


1. The process of purifying substances composed of natural cellular structures containing volatilizable alkaloidal and other constituents which consists in subjecting them to the action of a gas or vapor heated to a temperature as great as that required to volatilise the volatilizable alkaloids therein without carbonising the cellulose structure, and in segregating from the beans the volatilized alkaloids.

1,400,993. BOILER FEED-WATER PURIFIER. CHARLES E. SARGENT, Indianapolis, Ind. Filed Aug. 9, 1919. Serial No. 316,290. 5 Claims. (Cl. 122—398.)

1. A feed water heater and purifier for boilers comprising a hollow body having at its lower end a blow-off

opening, means for connection with the lower part of a boiler, a downwardly opening vertical nozzle and means for connecting same with the upper part of a boiler, an annular feed water heating chamber surrounding the nozzle and means to supply feed water thereto above the



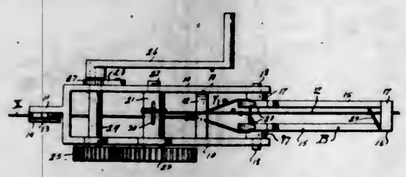
discharge end of the nozzle, and around the body thereof and an enlarged relatively short bell in the body in which the feed water and water from the nozzle mix and through which they move at low velocity, whereby to reduce the disturbance caused by the entering of such body of water to that within the purifier to the minimum.

1,400,994. BABBITTING DEVICE. EARL B. SCARSDALE, Dayton, Ohio. Filed May 31, 1921. Serial No. 473,597. 4 Claims. (Cl. 22—123.)



1. In a device of the character described, supporting rails, bars mounted on said rails and adjustable longitudinally thereof, frames, means for supporting said frames and for adjusting the same toward and away from the bars, and means carried by the frames and adapted to be positioned within a cross-head shoe so as to form with the walls thereof spaces for reception of Babbitt-metal.

1,400,995. WIRE TIGHTENER AND SPLICER. HENRY H. SCHAEFER, Weldona, Colo. Filed Feb. 19, 1921. Serial No. 446,374. 7 Claims. (Cl. 140—123.5.)



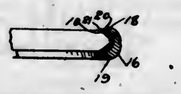
1. A wire tightener and splicer comprising two sections, one of said sections having thereon a pair of laterally spaced, loop engaging hooks, the other section having a wire tightening device, the loop engaging hooks having their bills normally extending from the tensioning device, the last named section being pivoted to the first named section on an axis radially distant from the bight of the hooks and disposed normally a greater distance from the tensioning device than the bight of said hooks whereby to cause the loop to be pulled from said hooks when the wire on the second named section has been bent around said loop.

1,400,996. WELL-CLEANER. ALEXANDER SCHEURER, Kansas City, Mo. Filed June 1, 1920. Serial No. 385,401. 1 Claim. (Cl. 166—20.)



In a well cleaning device, an interior casing member having its lower end portion open and adapted to fit snugly within the wall of the well and the remainder of said interior casing tapering gradually in the direction of the upper end of said well, and a conduit member for conducting a flow of liquid under pressure to the vicinity of the lower end of said well casing, said conduit member extending from the upper end of the well and through the wall of said casing member to the interior thereof and below the lower end of said casing member.

1,400,997. OPHTHALMIC MOUNTING. HOWARD H. SCHOTT, Providence, R. I., assignor to Universal Optical Corporation, Providence, R. I., a Corporation of Rhode Island. Filed June 23, 1919. Serial No. 306,142. 3 Claims. (Cl. 88—47.)

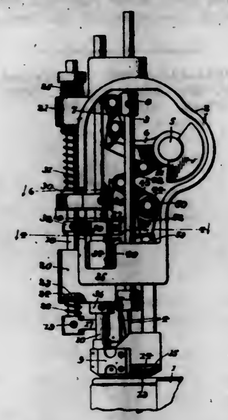


1. In an ophthalmic lens frame, an inner rim having a lens-receiving groove, a non-metallic outer rim for said inner rim formed of a continuous annular band internally grooved to receive said inner rim, said groove being offset laterally from a medial line through said outer rim and its rear side wall being thinner than that at the front of said outer rim and said outer rim being shaped to extend around a laterally-extending member on said inner rim.

1,400,998. TRIMMING MECHANISM FOR SEWING-MACHINES. DUDLEY S. SEYMOUR, Oak Park, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 10, 1916. Serial No. 83,299. 8 Claims. (Cl. 112—122.)

4. A trimming mechanism for sewing machines including in combination a work support, a presser foot, a presser bar supporting said foot, a stationary trimming blade carried by said presser foot, a vertical shaft in rear of the presser bar, the movable trimming blade carried by

said shaft and coöperating with said stationary blade, a sleeve surrounding said presser bar, means for supporting said sleeve whereby the same may oscillate but is held from endwise movement relative to the presser bar, means



for oscillating the sleeve, an eccentric carried by said sleeve, an eccentric strap coöperating therewith, an arm carried by said vertical shaft to which said eccentric strap is connected and means for oscillating said sleeve.

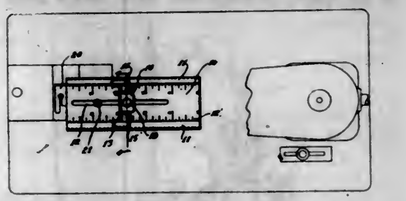
1,400,999. AUTOMOBILE-SIGNAL. WILLIAM F. SHONK, Detroit, Mich. Filed Jan. 15, 1921. Serial No. 437,460. 1 Claim. (Cl. 116—52.)



A signaling mechanism having a casing provided with a slot through one of its walls, a signaling member pivoted within the casing for projection through said slot, said member having a substantially straight signal head, a depressible lever on the exterior of the casing, a flexible element connected to said member and to said lever passing over said head and through a wall of the casing, and a return spring for the signaling member connected to the casing and to said member, and said flexible element being disposed for operation intermediate said spring and the adjacent wall of the casing to prevent detachment of the flexible element from the head.

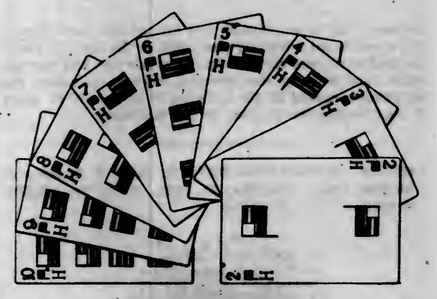
1,401,000. GAGE. CONSTANCE M. SKOLFIELD, New Orleans, La. Filed Nov. 8, 1920. Serial No. 422,576. 1 Claim. (Cl. 112—158.)

A sewing machine attachment comprising an elongated member removably secured to the machine, provided with a centrally disposed longitudinal slot, bearing suitable indicia upon opposite sides of said slot and having the opposed longitudinal edges of said member folded inwardly to provide channels, a vertical gage disposed above the elongated member and provided with horizontal L-shaped feet engaging said channels, a horizontal flange projecting



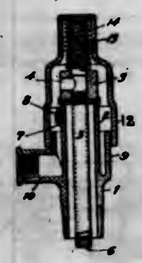
from the upper edge of said gage, a threaded element carried by said flange extending through the slot in said elongated member and adapted to engage the plate of said machine.

1,401,001. GAME OF CARDS. JOHN W. SMILEY, Winchester, Ky. Filed Nov. 24, 1919. Serial No. 340,336. 5 Claims. (Cl. 46—25.)



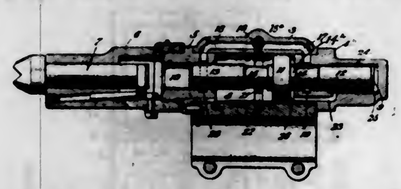
1. A card game, comprising a red suit and a blue suit, each suit comprising two series of fourteen cards each bearing emblematic representations, all of said suit cards having three separate indicia in the peeps thereof, and a best bower independent of either of the suits for use in connection therewith, substantially as described.

1,401,002. SAFETY RELIEF-VALVE FOR HOT-WATER SYSTEMS. CHARLES H. SMITH, Boston, Mass. Filed Apr. 13, 1921. Serial No. 461,010. 8 Claims. (Cl. 137—92.)



2. A device of the class described comprising a tube in communication with water in a tank, a pressure valve controlling the outlet from one end of said tube, and a fusible plug closing an opening through the side of said tube.

1,401,003. MOTOR. WILLIAM A. SMITH, Phillipsburg, N. J., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo., a Corporation of Delaware. Filed Oct. 16, 1916, Serial No. 125,945. Renewed May 9, 1921. Serial No. 468,170. 6 Claims. (Cl. 121—17.)



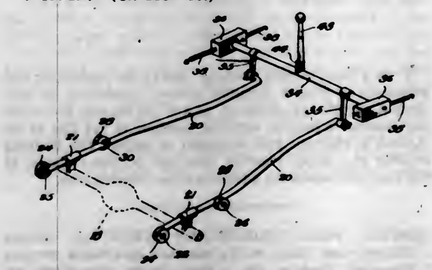
1. In a motor of the character set forth, the combination with a cylinder member having a head chamber and opposite neck chambers extending therefrom, said cylinder member having supply ports opening into the neck chambers, of a piston operating in the cylinder member and comprising a head in the head chamber and necks respectively operating in the neck chambers, said necks having reduced portions of less cross sectional area than the neck chambers to alternately and intermittently afford communication between the ports and the head chamber on opposite sides of the head, and bosses at the juncture of the head and necks that substantially close the inner ends of the neck chambers whenever the piston makes a stroke of extreme length, thereby forming cushions of trapped motive fluid.

1,401,004. ELECTRICAL FUSE. HASCAL SNODGRASS, Bisbee, Aris. Filed Mar. 12, 1921. Serial No. 451,907. 4 Claims. (Cl. 200—131.)



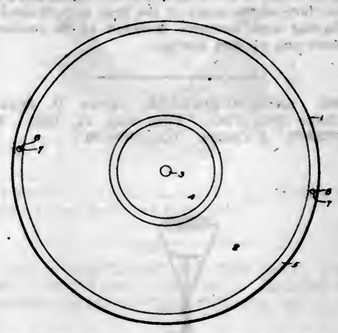
1. A fuse comprising a hollow cylindrical body portion of insulating material, a conducting cap on each end of said body portion, said caps and said body portion being split longitudinally to form two separable members, a fusible element adapted to be disposed within the hollow portion and to be gripped at its ends between the separable members, and a collar adapted to be applied to the caps when the separable members are placed together to hold them together.

1,401,005. VEHICLE-BRAKE. FRANK B. SNYDER, Altoona, Pa. Filed Apr. 22, 1920. Serial No. 375,814. 7 Claims. (Cl. 188—80.)



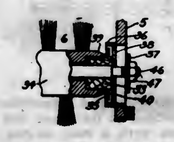
1. The combination with a brake drum having a laterally projecting annular flange, of an operating rod extending along one side of said drum, shoes rotatably carried by said operating rod and adapted for engaging said annular flange, and an operating device for said rod.

1,401,006. INDICATOR. HENRY A. SOMMERS, Jersey City, N. J. Filed Mar. 16, 1921. Serial No. 453,288. 4 Claims. (Cl. 240—1.)



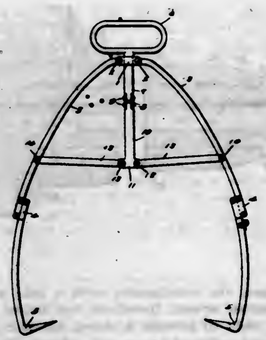
1. As a new article of manufacture, a phonograph record including a grooved playing surface, a plurality of pockets arranged around the outer edge of the playing surface, and luminous material in the pockets facilitating the application of a needle to the record when said record is rotated.

1,401,007. SUCTION-SWEEPER. ALBERT F. STAPLES, Boston, Mass., assignor to The Hoover Suction Sweeper Company, North Canton, Ohio, a Corporation of Ohio. Filed Apr. 22, 1918. Serial No. 230,055. 2 Claims. (Cl. 15—60.)



1. A brush, for a suction-sweeper, comprising an elongated body provided with bristles and with an annular flange at the end; the body, adjacent the flange, tapering to the inner surface thereof and forming an acute angle therewith, and the flange being perforated, near its base, to provide air-passages discharging over the tapered surface.

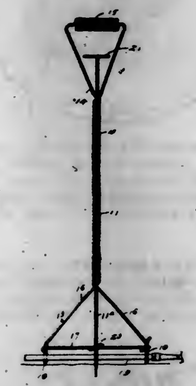
1,401,008. ICE-HOOK. JOHN ROY STOGNER, Lancaster, S. C. Filed Oct. 8, 1920. Serial No. 415,681. 3 Claims. (Cl. 294—115.)



1. In an ice tongs, a handle having a shank constructed of sections which are hingedly connected, plates disposed

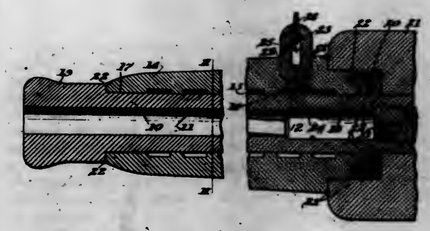
over the opposite faces of the shank, arms pivoted between the plates adjacent to the edges of the shank, pivoted links between the end of the shank and the arms, pockets on the inner face of the arms at the free ends thereof, and hooks having arm members designed to be received in the pockets and pivoted therein.

1,401,009. LAWN-SPRINKLER. JOHN D. SULLIVAN, Salt Lake City, Utah. Filed Aug. 17, 1921. Serial No. 492,979. 6 Claims. (Cl. 248—29.)



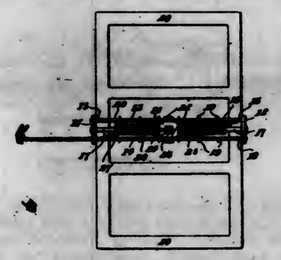
1. A hose nozzle carrying and supporting device having a tubular shank provided at its upper end with a handle and at its lower end with a foot having hose receiving seats, and an anchoring stem slidingly fitting said shank, operatively accessible at its upper end from the handle and adapted to be depressed to penetrate the ground at its lower end.

1,401,010. GUN. LELAND L. SUMMERS, Washington, D. C. Filed May 24, 1918. Serial No. 236,356. 5 Claims. (Cl. 89—16.)



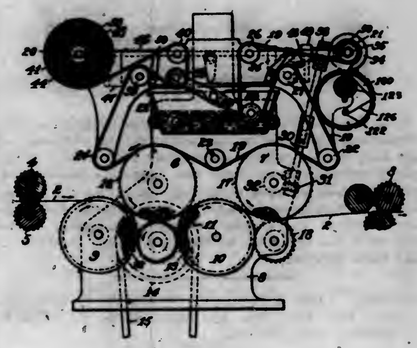
1. In a gun, the combination with a tube and an enveloping member spaced therefrom but united therewith at opposite ends to provide a closed annular interspace, said interspace enlarged at one end, whereby the gun-tube may be maintained under longitudinal tension by hydrostatic pressure within the interspace.

1,401,011. ANIMAL-TRAP. WALTER A. THLGA, Albion, N. Y. Filed Aug. 31, 1921. Serial No. 497,093. 5 Claims. (Cl. 43—81.)



1. An animal trap comprising a base and integral resilient jaws oppositely pivoted transversely thereof and a helical spring integral with the opposite ends of said jaws positioned therebetween and adapted for operating the jaws when the trap is set.

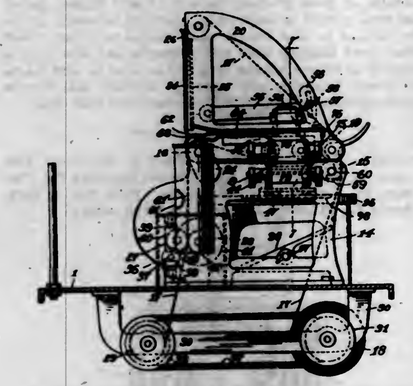
1,401,012. FILM-CLEANER. ALBERT TEITEL, New York, N. Y., assignor to Cinema Patents Company, Chicago, Ill., a Partnership. Filed Jan. 16, 1920. Serial No. 351,867. 9 Claims. (Cl. 15—8.)



1. In a film cleaning machine, means for supporting and advancing a film, a cleaning member supported to bear against the film as advanced, means for moving the cleaning member to present different portions to the film as advanced, a cleaning web arranged to engage the cleaning member at a point removed from the portion engaged by the film, and means for advancing the cleaning web.

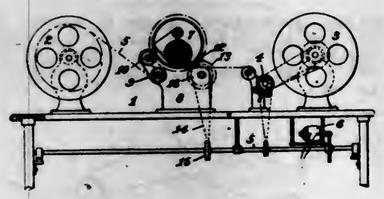
1,401,013. FILM CLEANER AND REWINDER. ALBERT TEITEL, New York, N. Y., assignor to Cinema Patents Company, Chicago, Ill., a Partnership. Filed Feb. 27, 1920. Serial No. 361,771. 10 Claims. (Cl. 15—8.)

1. In a film cleaning machine, means for advancing the film in a certain path, a cleaning web, means for moving the web in engagement with one face of the moving film and in a path transverse to the said film path of movement at the place of engagement, and means for guiding the same web to return and move in the reverse direction



against the opposite face of the film at said place of engagement.

1,401,014. FILM-CLEANING APPARATUS. ALBERT TEITEL, New York, N. Y., assignor to Cinema Patents Company, Chicago, Ill., a Partnership. Filed Apr. 6, 1920. Serial No. 371,603. 6 Claims. (Cl. 15—8.)



1. In a film cleaning machine, a rotatable drum having a slot in its periphery, a pair of rolls carried by the drum arranged to have a cleaning web wound from one roll to the other and which web can pass out through said slot and around the periphery of the drum and back through the slot to the other roll, means for rotating one of said rolls from the rotation of the drum, comprising a fixed worm concentric with the drum, a worm wheel carried by the drum and engaging said worm whereby the worm wheel is turned by the worm on rotation of the drum, and means connecting the worm wheel with one of said rolls to rotate the roll.

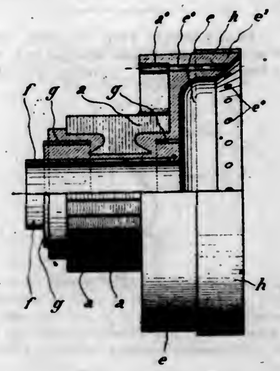
1,401,015. VEHICLE-WHEEL RIM. JOSEPH C. THERRATH, Cleveland, Ohio, assignor to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 3, 1917. Serial No. 205,026. 5 Claims. (Cl. 152—21.)

1. The combination with a wheel rim; of a split side-flange removably mounted on said rim, one end of said flange being adapted to radially interlock with said rim and having an angular recess in its transverse face; and a member movably attached to the other flange-end adapted



in one position to engage such recess and thereby radially lock such second flange-end to the first.

1,401,016. COMMUTATOR AND THE LIKE. RENÉ ALFRED LAURENT VOLET, Paris, France. Filed Oct. 6, 1920. Serial No. 414,985. 7 Claims. (Cl. 171—321.)



1. In a commutator or like device, a ring of wedge shaped elements, each of such elements having formed integral therewith an eye for the reception of the wires to be connected thereto, insulating material between the said elements, an inclosing casing of insulating material in which the said elements are embedded, the said casing being provided with holes leading to the said eyes for the passage of the wires, substantially as described.

1,401,017. BEATER FOR GRINDERS. JEROME WARD, Waukegan, Ill., assignor to Blatchford Calf Meal Co., Waukegan, Ill. Filed Aug. 2, 1920. Serial No. 400,689. 4 Claims. (Cl. 83—11.)



1. A beater for grinders, comprising a substantially rectangular plate which is thicker on the outer edge than at the inner edge and thicker at the ends than at the middle, thereby forming a substantially concave grinding face longitudinally of the beater.

1,401,018. LOCK. THOMAS F. WARD, Cleveland, Ohio. Filed May 27, 1921. Serial No. 472,960. 5 Claims. (Cl. 70—5.)

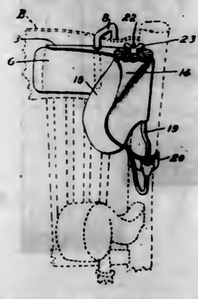
4. A lock of the class described in combination with a keeper, comprising a casing, curved locking levers pivotally

secured to the inner wall of the casing, each of said levers having its curved end adapted for locking engagement with the said keeper, coiled springs secured to each of said levers and to the casing for maintaining said curved ends in locking engagement, a horisontal, reciprocating rack bar co-



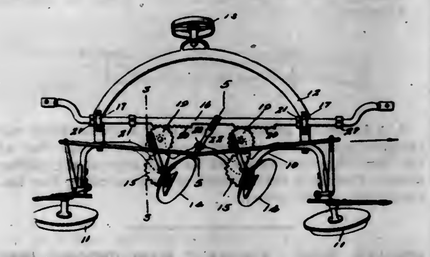
operating with the opposite ends of the levers, a coiled spring secured to one end of the rack bar and to the casing whereby the said bar is held out of engagement with the levers, guides for said bar, and key operated means for urging the opposite end of said bar into engagement with the levers to unlock the same from the keeper.

1,401,019. ATTACHMENT FOR CHAIRS AND THE LIKE. WILLIAM HENRY WEBER, Kokomo, Ind. Filed Apr. 23, 1921. Serial No. 463,786. 3 Claims. (Cl. 155—174.)



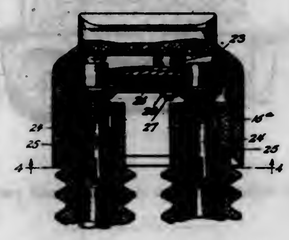
1. An attachment of the class described including a plate having a top wing, a disk carried by said wing, clamping means extending back of the plate and connected thereto, a second plate having a top wing, a disk carried by said wing and lapping and adjustable angularly relative to the other disk, cushions upon the respective plates and movable therewith relative to each other.

1,401,020. PLOW. LUTHER J. WESTBROOK, Flowery Branch, Ga. Filed July 23, 1920. Serial No. 398,371. 1 Claim. (Cl. 97—40.)



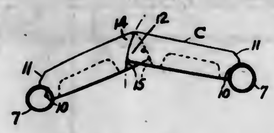
In a reversible disk plow, a frame, a pair of brackets secured to said frame adjacent to the opposite ends thereof, spaced rollers rotatably mounted in said brackets, a draft tongue extending through said brackets and engaging said rollers, a plurality of spaced collars secured to said tongue and adapted to engage said frame, a lever pivotally secured to said frame and provided with an elongated slot, a pin projecting from said tongue and engaging said slot, a plurality of disks pivotally secured to said frame, spaced rack bars carried by said tongue, toothed segments pivotally secured to said frame, and adapted to actuate said disks, gears meshing with said segments and said bars, a plurality of furrow wheels pivotally secured to said frame and means engaging said lever for shifting said furrow wheels simultaneously with the actuation of said disks.

1,401,021. SWITCHING-BOX. PAUL F. WILLIAMS, Chicago, Ill., assignor to G & W Electric Specialty Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 1, 1918. Serial No. 214,860. 4 Claims. (Cl. 173—338.)



1. A switching box provided with upstanding outlets and caps for connecting said outlets, said outlets and caps being provided with loose coöperating contacts by which adjustment may be made when a cap is fitted to a pair of outlets.

1,401,022. ARCH-BRICK. ALFRED H. WILLETT, West New York, N. J., assignor to American Arch Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 4, 1919. Serial No. 280,535. 8 Claims. (Cl. 110—37.)

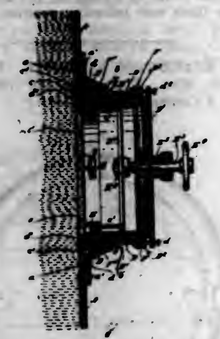


7. A pair of brick members each having support engaging and brick engaging portions at opposite ends, said brick engaging portions being substantially counterpart and substantially complementary and arranged with respect to each other and the support engaging portions to make the brick members variable as to effective length to fit different spacings of supports, said brick engaging portions coöperating to provide reciprocal support for the adjacent ends of the members throughout the range of adjustment.

1,401,023. COMPOSITION FOR CLEANING AND COATING. JOHN MACNAULL WILSON, Montclair, N. J.; Cora Ellsworth Wilson executrix of said John MacNaull Wilson, deceased. Original application filed Mar. 7, 1919, Serial No. 281,304. Divided and this application filed Jan. 26, 1921. Serial No. 440,176. 9 Claims. (Cl. 134—24.)

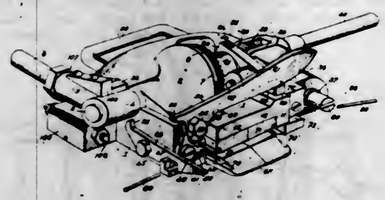
8. A cleaning emulsion including pine oil, a mineral oil, lime soap, a drying agent and water.

1,401,024. DIAPHRAGM-MOUNTING. EDWARD C. WOOD, Somerville, and HAROLD J. W. FAY, Westboro, Mass., assignors to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed Nov. 12, 1917. Serial No. 201,483. 1 Claim. (Cl. 181—5.)



A floating body having an opening in the skin thereof, a diaphragm, a casing having a flange, and means adapted to clamp said diaphragm to said flange to close one end of said casing, said diaphragm and said diaphragm-clamping means being of less diameter than said opening, and means for supporting said diaphragm and said casing in said opening comprising a surrounding member attached to said floating body and shaped to overhang the flange of said casing and carrying a shoulder, a resilient packing located between said overhang and said flange, a second resilient packing located on said shoulder, and means engaging said second packing for adjustably clamping said casing to said surrounding member.

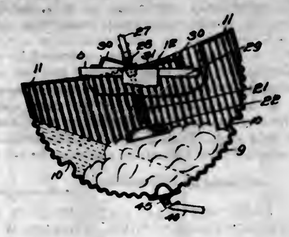
1,401,025. HAND-OPERATED WIRE-TYING MACHINE. PARVIN WRIGHT, Chicago, Ill., assignor to Alec J. Gerrard, Chicago, Ill. Filed Dec. 1, 1919. Serial No. 341,605. 21 Claims. (Cl. 140—93.)



1. In a wire tying machine the combination of a frame capable of crawling over the package during the tying operation; means comprising a movable latch member for holding the wire in a predetermined position in said frame; means comprising a pinion having a slot for twisting the wire between its ends while so held; and means for cutting the held wire at the end of the twisting operation, substantially as described.

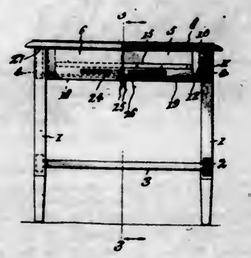
1,401,026. WASHING-MACHINE. EMANUEL B. ADLER and JEROME ADLER, Pittsburgh, Pa. Filed July 28, 1920. Serial No. 399,509. 11 Claims. (Cl. 68—21.)

3. A washing machine comprising a supporting frame, a tub in said frame capable of being oscillated, means for oscillating the tub, a reciprocable washing means within the tub, a rock arm on the tub for moving said reciprocable



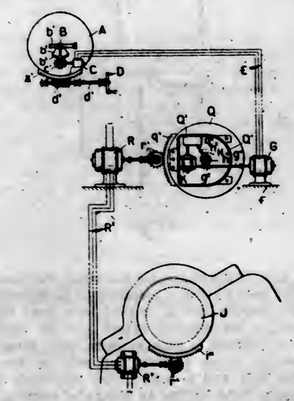
washing means, and means on the fraime for operating said rock arm upon oscillation of the tub.

1,401,027. PIANO-BENCH. LOUIS M. ADLER, New Orleans, La. Filed July 11, 1921. Serial No. 483,839. 4 Claims. (Cl. 155—90.)



2. A piano bench comprising a supporting structure, a seat pivoted thereon at its forward edge, supporting feet at the rear portion of the seat, and reciprocating bolts adapted to engage beneath the feet to hold the seat in a forwardly inclined position, substantially as described.

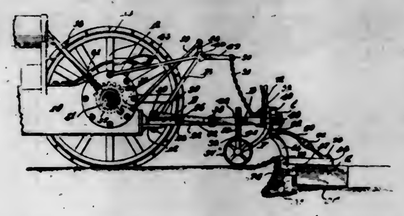
1,401,028. FIRE-CONTROL APPARATUS PARTICULARLY INTENDED FOR NAVAL GUNS. WALTHER AKEMANN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 17, 1920. Serial No. 411,021. 3 Claims. (Cl. 89—41.)



1. An apparatus of the class described comprising a sighting device, means for stabilizing said sighting de-

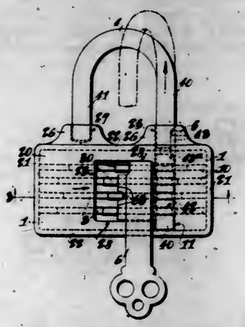
vice, a carrier for said stabilizing apparatus, means for adjusting said carrier to correspond to the range, a transmitter operatively connected to said sighting telescope, a receiver, means operatively connecting said transmitter to said receiver, an arm operatively connected to said receiver, a second transmitter connected to and operated by the trunnion of a gun, a second receiver connected to said second transmitter for synchronous operation therewith, a disk-shaped member, an arm coöperating with said first mentioned arm carried by said disk, means connecting said disk to said second receiver for rotating the same, substantially as and for the purpose set forth.

1,401,029. AGRICULTURAL MACHINE FOR DIRECT ATTACHMENT TO TRACTORS. CHARLES W. ARMANTROUT, Grandview, Wash. Filed Mar. 7, 1921. Serial No. 450,422. 11 Claims. (Cl. 97—30.)



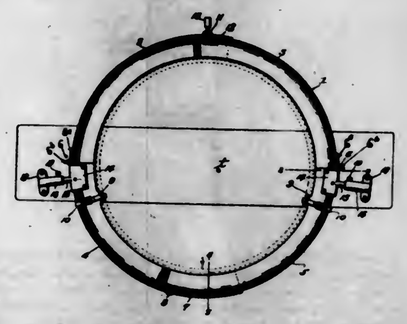
1. The combination with a tractor and an agricultural implement, of means pivotally connecting the implement directly to the tractor, a transversely extending bar carried by the tractor, arms pivotally mounted upon the bar and slidably engaging the implement to prevent relative lateral movement thereof in relation to the tractor, and means for operatively connecting the tractor and implement together, for permitting swinging movement of the implement in relation to the tractor.

1,401,030. LOCK. ANTONIO ASHKAR, Brooklyn, N. Y. Filed Mar. 2, 1921. Serial No. 449,041. 3 Claims. (Cl. 70—19.)



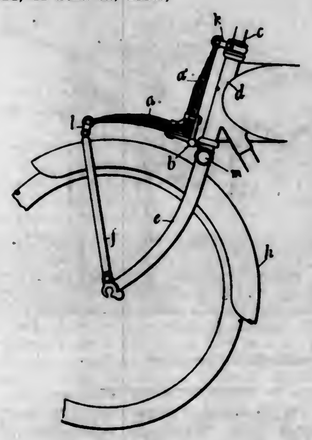
1. In a lock of the character described, the combination with a solid body having a plurality of horisontal grooves in one face thereof and a vertical bore that bisects the said grooves, a permutation detent, one for each groove, and endwise slidable in such grooves, each detent having a semi-circular recess at that end next to the vertical bore of the body and a casing that surrounds the body and engages a front having an elongated opening through which the horisontal grooves and the permutation detents are exposed, each of the said detents including a lug that projects through the casing opening; of a locking bolt longitudinally movable in the bore of the body, the said bolt having a series of annularly disposed grooves that aline the grooves in the body, and a key having a head shaped to seat in one end of the casing opening and provided with a bearing edge having differentially arranged abutments that constitute stops for the detents when moving them to their bolt releasing position.

1,401,031. SPARE-TIRE CARRIER. FRANK AUMANN, Manitowoc, Wis. Filed Dec. 20, 1920. Serial No. 431,939. 4 Claims. (Cl. 224—29.)



1. A spare tire carrier comprising a casing composed of a plurality of hollow segments substantially semi-circular in cross section, some of said segments being slidably and inseparably connected with each other and hingedly connected with others, means for detachably connecting the free ends of the hinged sections, and means for mounting the carrier on a support.

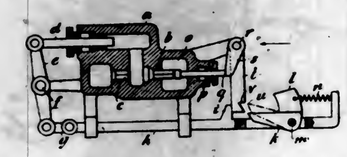
1,401,032. SPRING-MOUNTING FOR MOTORCYCLE FRONT WHEELS. FRANK EDWARD BAKER and THEODORE JAMES BIGGS, Birmingham, England. Filed Feb. 10, 1920. Serial No. 357,611. 2 Claims. (208—97.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a spring mounting for the front wheel of a motor cycle the combination comprising a laminated spring ar-

ranged over and above the rim of the wheel and hinged to the lower end of the fork stem, a strut connecting the outer end of the spring to the lower end of the fork, and a right angle laminated extension of the spring connected to the upper end of the fork stem, substantially as described.

1,401,033. REGULATING DEVICE FOR FUEL-OIL PUMPS. HANS HENRIK BLACHE, near Copenhagen, Denmark. Filed Sept. 18, 1919. Serial No. 324,681. 13 Claims. (Cl. 123—140.)

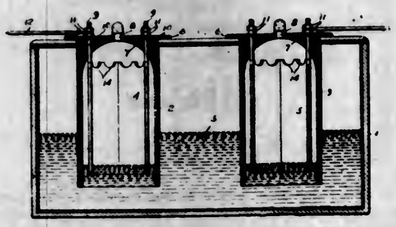


1. Regulating mechanism for fuel-oil pumps, comprising in combination a member for unseating the suction valve of the pump, a lever system for operating said unseating member, a weight-actuated element movable back and forth and normally free of engagement with the lever system during its movements, but engageable under predetermined conditions with said lever system to operate the same, and a tappet movable back and forth with said weight-actuated element to return the lever system to its initial position.

1,401,034. METHOD OF MAKING PAINT. TALMADGE BLASS, Lackawanna, N. Y., assignor of one-half to William H. Abbott, Hamburg, N. Y. Filed Feb. 9, 1920. Serial No. 357,341. 7 Claims. (Cl. 134—39.)

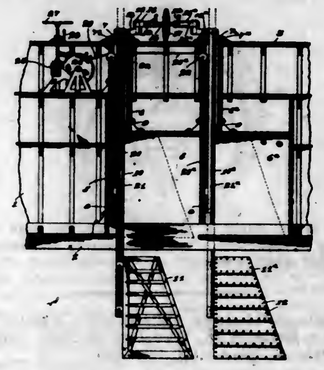
1. The method of making a waterproof paint comprising the treatment of a crude, solvent naphtha with a sufficient quantity of sulfuric acid to make it of the desired viscosity to spread properly when applied with a brush.

1,401,035. GAS-GENERATOR. MARTIN BOISEN, Sandusky, Ohio. Filed Mar. 19, 1921. Serial No. 453,643. 5 Claims. (Cl. 204—58.)



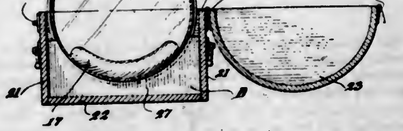
1. A gas generator, comprising a tank adapted to contain water, tubular cells of insulating material suspended in the tank and having their lower ends submerged in the water of the tank and having outlets in their upper ends, and hollow electrodes supported in the cells, spaced from the walls of the cells and from the upper ends of the cells.

1,401,036. MARINE PROPULSION. JESSE MCPHAIL BOWLES, Atlanta, Ga., assignor of one-third to George Moses Baruday, Washington, D. C. Filed July 22, 1921. Serial No. 486,764. 17 Claims. (Cl. 115—4.)



1. In marine propulsion mechanism, a hull, a propeller vane directly pivoted in an upright position to bearings fixed to said hull, said vane being disposed directly below the bottom of said hull and means for limiting the oscillation of said propeller vane.

1,401,037. BURIAL-CASE. THOMAS BRADLEY, Trinidad, Colo., assignor of one-half to William Childs, Starkville, Colo. Filed Nov. 22, 1919. Serial No. 339,847. 3 Claims. (Cl. 27—2.)



1. A burial case for permitting the viewing of the corpse and for protecting the corpse comprising an outer ornamental protecting casing, transversely extending supporting cleats arranged in the casing, an inner transparent corpse receiving case arranged in the protecting case and disposed upon said cleats, movable end caps for the inner transparent corpse receiving case, the outer protecting case including a removable cover for exposing to view the inner transparent corpse receiving case, and hinged end walls for the outer protecting case arranged in direct alinement with the removable end caps of the inner transparent corpse receiving case, as and for the purpose specified.

1,401,038. PHYSICAL DEVELOPER ADAPTED FOR ROWING EXERCISE. THOMAS BRITT, Langley Mill, England. Filed Mar. 5, 1920. Serial No. 363,523. 3 Claims. (Cl. 46—69.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. In a physical developer, the combination, with a supporting axle, of a stationary clutch member arranged on the said axle, a middle and double clutch member journaled above the stationary clutch member, an upper clutch member journaled above the middle clutch member, all

the clutch members having ratchet shaped teeth on their opposed faces and the teeth of the upper clutch being arranged in the opposite direction from the teeth



of the lower clutch, a spring holding the teeth of the clutches in engagement, and an operating arm secured to the upper clutch member.

1,401,039. WILD-OATS SEPARATOR. FERDINAND W. BUSCH, Berlin, N. D. Filed June 23, 1920. Serial No. 391,044. 4 Claims. (Cl. 130—18.)



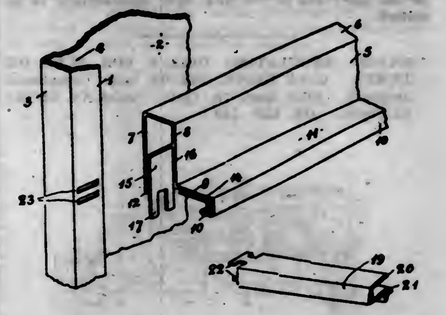
2. A separator having an endless flexible belt to engage material to be separated, means to drive the belt, and movable means associated with the belt for projection to dispose portions of a run of the belt at an angle to each other.

1,401,040. SAFETY SPRING-SLING PARTICULARLY ADAPTED FOR USE WITH PARACHUTES, EVERARD RICHARD CALTHROP, London, England, assignor to E. R. Calthrop's Aerial Patents Limited, London, England. Filed July 31, 1918. Serial No. 247,508. 6 Claims. (Cl. 244—21.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. The combination, with a parachute, of a safety spring sling or suspension device comprising an inextensible, flexible element extending in a single unitary piece from the parachute to the passenger's harness, a plurality of springs normally of less length than said inextensible element, said springs being so constructed as to prevent spinning and twisting when weight is applied, attaching means on the inextensible element to which the opposite ends of the springs are connected, and means directly engaged with said attaching means to prevent displacement thereof.

1,401,041. CONSTRUCTION OF METAL CASES FOR CONTAINING DRAWERS, SHELVES, OR THE LIKE. WALTER CHIPPERFIELD, Romford, England. Filed Feb. 10, 1920. Serial No. 357,657. 3 Claims. (Cl. 45—2.)



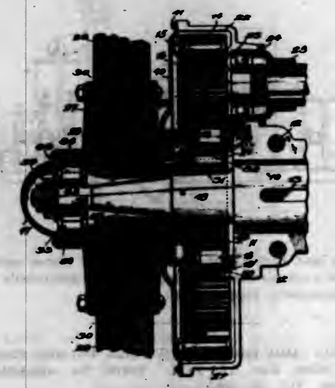
1. In a metal case construction, a flanged support having parallel, spaced slots in a flange thereof, a channeled member, tongues on said member and enlarged heads on said tongues, said tongues and heads being adapted to be disposed through the slots in said support flange and extended thereabeyond, a supplemental support, a forked tongue carried thereby and adapted to straddle the tongues of said channeled member between said flange and the heads of the tongues, and a bolt slidably carried by said supplemental support adapted to engage said channeled member for locking said parts in connected relation.

1,401,042. ELECTRIC DRIVING PUMP-JACK. CLAUS P. CHRISTENSEN, Petaluma, Calif., assignor of one-half to H. P. Vogensen, Petaluma, Calif. Filed Sept. 8, 1920. Serial No. 408,907. 6 Claims. (Cl. 74—14.)



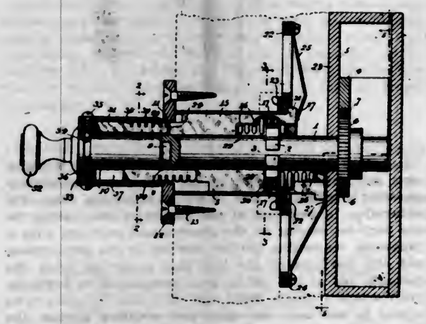
1. In a pump jack, a base having a guide for the pump rod, a driving motor mounted on the base, a power transmitting and translating mechanism mounted on the base and coupled to said motor and having provision for coupling to the pump rod, said transmitting and translating mechanism comprising a housing having a cover, a driving worm journaled in bearings in said housing and coupled with said motor, a master worm gear mounted in said housing and meshing with said worm, a crank member carried by said master worm gear, a connecting rod mounted in said cover and means for translating the rotary motion of said crank member into reciprocating motion in said connecting rod.

1,401,043. MOTOR-VEHICLE. HAROLD D. CHURCH, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 24, 1919. Serial No. 272,885. 14 Claims. (Cl. 180—73.)



1. A motor vehicle axle construction including in combination, an axle, a casing secured to the axle, a gear within the casing having a hub formed with a bore, a bearing between the gear and casing rotatably supporting the gear, a driving pinion associated with said gear, and a ground wheel having a hub projecting at one side thereof, said wheel hub being of smaller diameter than said bearing, said wheel hub being disposed within the bore of the gear hub for rotation with the latter.

1,401,044. COMBINATION-LOCK. FRANCISCO CLARK, Durango City, Mexico. Filed Oct. 15, 1919. Serial No. 330,840. 11 Claims. (Cl. 70—46.)



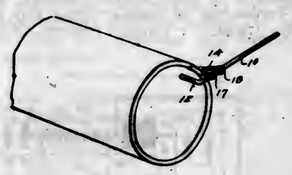
2. A combination lock comprising a bolt or latch, another independent member connected therewith for controlling the movement of said bolt, a plurality of tumbler members arranged about the outside of said control member and normally restraining movement of said bolt control member, means arranged to permit relative longitudinal movement of the tumblers and said control member, and means adjustable on said tumblers for determining the movement required of the tumblers in order to permit relative rotary movement between tumblers and said control member.

1,401,045. TIRE. WILLIAM L. CLENDENNING, Philadelphia, Pa., assignor of one-half to Rosena Kelly-Walker, Wildwood, N. J. Filed Oct. 1, 1921. Serial No. 504,578. 6 Claims. (Cl. 152—8.)



3. The combination with a tire including an outer cover and an inflatable inner tube of an annular non-puncturable shell of crescent-shaped cross section, said shell consisting of inner and outer segmental cross section annuli, the outer annulus having its peripheral edges inwardly turned to constitute seats into which the inner annulus is adapted to be sprung for interengaging connection, and yielding means interposed between said inner and outer annuli whereby they are retained in coöperative engagement.

1,401,046. TOOL FOR HANDLING TILES. ALBERT A. CLYMER, Gowrie, Iowa. Filed Mar. 23, 1920. Serial No. 368,174. 1 Claim. (Cl. 294—15.)



A tile rolling tool having a handle and separated substantially parallel elongated substantially straight arms extending laterally therefrom to receive the tile between them, said arms having bearing surfaces to permit the tile to roll while engaged by the tool, one of said arms being adjustable relatively to the other arm for the purpose specified, the handle being bent intermediate its end to provide the first arm, the adjustable arm having a socket, a brace extending from the adjustable arm also having a socket, said sockets being slidably engaged with the handle, and individual means to secure the sockets to the handle.

1,401,047. [WITHDRAWN.]

1,401,048. STEAM-ESCAPE VALVE FOR RANGE-BOILERS, &c. WILLIAM A. COLLVER, Marshfield, Oreg. Filed Feb. 8, 1918. Serial No. 216,054. 1 Claim. (Cl. 137—53.)

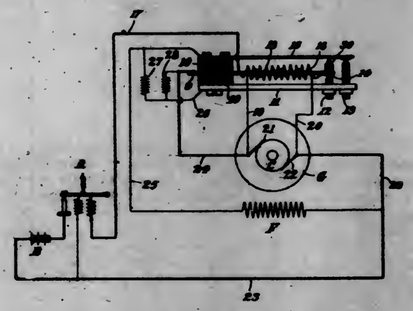
In combination with a boiler, a valve, a chamber therefor, a conduit for steam leading from a point adjacent to the top of the boiler to said chamber, a steam escape means leading from the chamber, a cylinder below said chamber into which water from the chamber drains in communication with the boiler, said valve normally closing the steam escape pipe, said valve having a float in the said cylinder, said chamber and cylinder being in communicating relation substantially unobstructed to effective expansion of steam therein, said construction permitting

the accumulation of steam in the chamber to displace water in the cylinder so that the valve will thus automatically recede to permit escape of excess steam through



the escape pipe and subsequently move against its seat through rising of the water level in the boiler and cylinder.

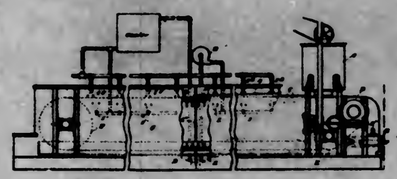
1,401,049. REGULATING DEVICE FOR DYNAMO-ELECTRIC MACHINES. OLIVER F. CONKLIN, Detroit, Mich., assignor to Remy Electric Company, Anderson, Ind., a Corporation of Indiana. Filed July 10, 1917. Serial No. 179,642. 7 Claims. (Cl. 171—229.)



1. A thermostatic regulating device including a plurality of resistances adapted to be cut into or to be short-circuited from a circuit to be controlled, a plurality of blades for normally short-circuiting said resistances, one of said blades being a bimetallic thermostatic element, and means for heating the thermostat element to bend the same to open a short-circuit, another blade being positively actuated by said thermostatic blade to open another short circuit.

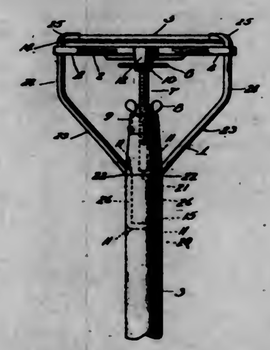
1,401,050. PROCESS OF FORMING CAKES OF SOAP. MARION L. CROUCH, Milwaukee, Wis., assignor to The Procter & Gamble Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Jan. 20, 1921. Serial No. 438,677. 13 Claims. (Cl. 18—58.)

1. The process of forming ultimate cakes of soap from a hot semi-liquid batch, which consists in subdividing the same into cake size portions, then quickly congealing or freezing the exterior layer of each portion or cake on all sides, then removing the same from the freezing conditions before the semi-liquid interior has congealed or frozen, whereby the abstraction or distribution of the



internal heat throughout the congealed or frozen exterior produces a completely congealed cake at substantially normal atmospheric temperature.

1,401,051. MOP-HOLDER. THOMAS DALTON, Chicago, Ill. Filed Mar. 17, 1921. Serial No. 453,124. 5 Claims. (Cl. 15—56.)

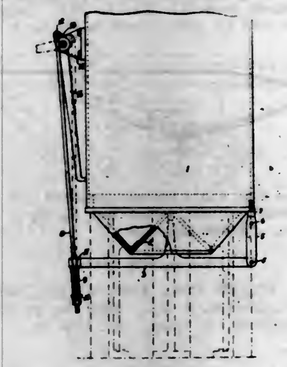


1. A mop holder comprising a handle having a transverse perforation adjacent to one end, and diametrically opposite longitudinal side grooves extending from the perforation to said end of the handle, a bail having its side portions seating in the grooves and provided with a transverse connecting portion seating in the perforation, said side portions of the bail also projecting from the aforesaid end of the handle and terminating in inwardly directed lateral bends, inner and outer mop-clamping jaws carried by the bail, the outer jaw abutting against the aforesaid lateral bends of the bail end, and means for adjusting the inner jaw.

1,401,052. DUST-CATCHER VALVE AND VALVE-OPERATING MECHANISM. ALFRED C. DANKS, Pittsburgh, Pa. Filed Feb. 7, 1920. Serial No. 356,813. 7 Claims. (Cl. 137—139.)

1. In a dust catcher, the combination with a dust collecting chamber, said chamber having a discharge outlet, of a valve for closing said discharge outlet, a pivoted lever on said valve, a valve controlling rod, spring means

on said controlling rod arranged to bear against said pivoted lever for maintaining said valve in closed position,



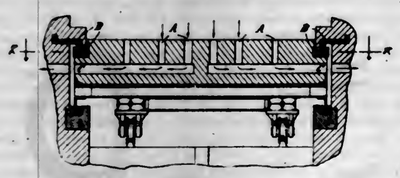
and means for varying the position of said controlling rod to relieve the tension of said spring means in opening said valve.

1,401,053. TATTING-SHUTTLE. MARION ELIZABETH DEAN, Taunton, Mass. Filed Mar. 10, 1920. Serial No. 364,724. 1 Claim. (Cl. 66—10.)



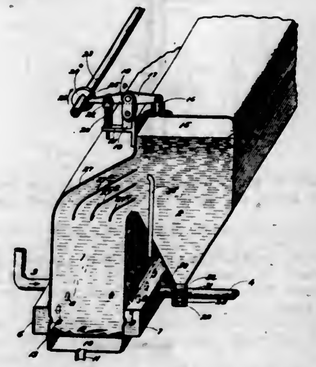
A tatting shuttle including two members secured together with inwardly extending spring ends, three of which are tapering and one rounded and shorter than the adjacent end, said projecting adjacent end having a transverse groove thereacross sunk in the body of the metal close to but removed from the end thereof, the metal of said end being of substantially the same thickness on both sides of said groove, thus maintaining a plain surface and the external surfaces of both members being smooth and free from obstructions, the whole so arranged that either end of said shuttle may be used for tatting without fear of catching the thread at undesirable times and yet so that when desired the thread may be stayed by said groove.

1,401,054. HEATING-FURNACE WITH REMOVABLE HEARTH. ALBERTO FRANCESCO DELACOURT, Genoa, Italy, assignor to Società Anonima Italiana Gio. Ansaldo & C., Genoa, Italy. Filed Apr. 23, 1918. Serial No. 230,226. 2 Claims. (Cl. 263—28.)



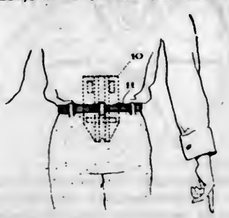
1. A furnace comprising a hearth for supporting the objects to be heated, said hearth being provided at various places of its area, with down-draft exit ports, whereby the hot gases can find exit from the furnace simultaneously at a large number of places, the sides of the hearth being luted to prevent gas exit around the hearth.

1,401,055. PROCESS OF CONCENTRATING ORE. BENJAMIN H. DOSENBACH, Butte, Mont., and WALTER A. SCOTT, Chicago, Ill.; said Scott assignor to Minerals Separation North American Corporation, a Corporation of Maryland; Edna M. Dosenbach, distributee by order of court in the estate of said Benjamin H. Dosenbach, deceased. Filed July 19, 1917, Serial No. 181,539. Renewed May 6, 1921. Serial No. 467,319. 21 Claims. (Cl. 83—85.)



1. An ore concentrating process comprising the operations of introducing gaseous bubbles into a freely flowing pulp, conducting said bubbles while submerged to a breaking-down region, applying fluctuating gas pressure to said bubbles to break them and release the mineral adhering to them, and collecting said mineral in said breaking-down region.

1,401,056. ORTHOPEDIC APPLIANCE. LOUIS STEPHEN DOYLE, Austin, Tex. Filed Feb. 9, 1921. Serial No. 443,615. 1 Claim. (Cl. 128—78.)

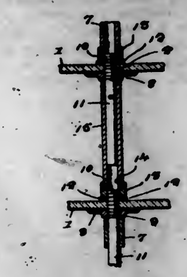


In an orthopedic appliance of the character described, a plate having an extension, the extension having its sides tapered so as to be reduced, a pair of pressure ribs extending longitudinally of the plate and the extension and secured thereto, said pressure ribs being symmetrically disposed with respect to the longitudinal axis of the plate and extension and adapted to exert pressure upon the spinal column to restore it to normal position and condition, and means for securing the appliance in position comprising a pair of resilient hooks and a centrally disposed resilient hook coöperable with the belt, and a transverse bar adapted to be arranged below the belt of the wearer to prevent the appliance from moving upwardly.

1,401,057. DISPLAY-RACK. HORACE W. ELLIOTT, Greenfield, Ohio, assignor of one-half to Walter A. Gray, Greenfield, Ohio. Filed Apr. 2, 1921. Serial No. 458,139. 2 Claims. (Cl. 211—24.)

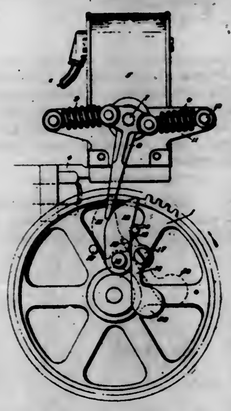
1. A display rack comprising an apertured shelf, outer tubular sections above and below the shelf, a plate below

the shelf, and an inclosed rod section extending through the apertured shelf and threaded into the said plate, in



combination with a member threaded on the inclosed rod section above the shelf to clamp the shelf against the plate.

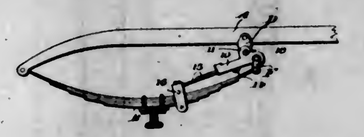
1,401,058. IGNITION APPARATUS. ALBERT ERICKSON, Chicago, Ill., assignor to Splitdorf Electrical Company, Newark, N. J. Filed Nov. 19, 1919. Serial No. 339,081. 7 Claims. (Cl. 123—149.)



1. An ignition generator for internal combustion engines, having a rotatable member for the generation of electric current, an oscillatory member secured thereto, rotary non-oscillatory means on the engine for intermittently engaging and moving said oscillatory member through a portion of a revolution and then releasing it, means for returning the oscillatory member to normal position after said release occurs, and means including a weighted pawl on said engine for automatically advancing said engine coöperating means for the purpose described.

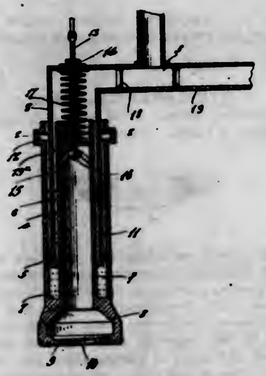
1,401,059. SHOCK-ABSORBER. HENRY FAUDREE and HARRY E. COOPER, Columbus, Ind. Filed Mar. 15, 1921. Serial No. 452,461. 1 Claim. (Cl. 267—17.)

In combination with the semi-elliptic spring of an automobile, one end of the spring being connected with the frame bar, a shock absorber comprising a body channel shaped in cross section provided intermediate its ends with spaced ears pivotally engaged upon opposite sides of a frame bar, tensioning leaf springs secured to one end portion of said body within the channel thereof, an inverted U-shaped yoke secured to the free end of the longer of the tensioning leaf springs, spaced rollers journaled within said yoke and engaging against the top and bottom of the elliptic spring, the other end of the body being slightly offset whereby to be in non-alinement with said leaf springs, said offset end being formed with



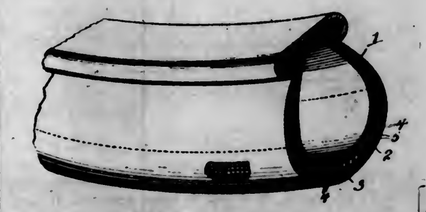
a transverse hole, and a shackle connected with the free end of the semi-elliptic spring and having a securing bolt engaging through said hole.

1,401,060. LIQUID SEAL FOR PUMPS. REUBEN L. FERGUSON, Hondale, N. Mex. Filed Oct. 13, 1916. Serial No. 125,395. 3 Claims. (Cl. 103—80.)



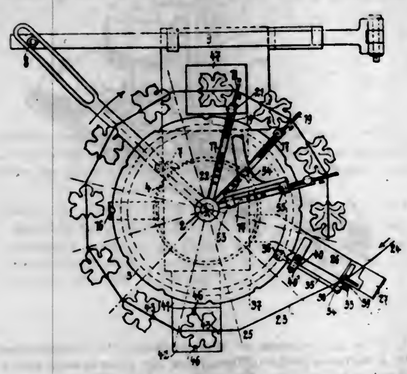
3. A pump including an upper stationary cylinder, a lower working cylinder, an intake valve in the lower end of said working cylinder, a mercury chamber concentric with and surrounding said working cylinder and receiving the lower end of the upper stationary cylinder, and actuating means for said working cylinder.

1,401,061. ARMORED TIRE. SAMUEL J. FLYNN, Portsmouth, Va. Filed Feb. 12, 1920. Serial No. 358,252. 4 Claims. (Cl. 152—18.)



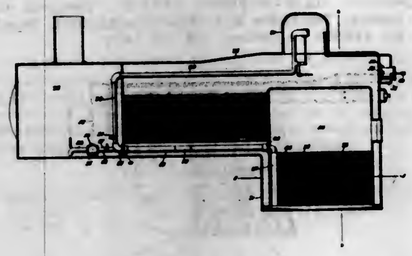
1. The combination with a pneumatic tire, of a layer of relatively free ball-bodies arranged as a protective medium for the tread portion of such tire.

1,401,062. MACHINE FOR MAKING ARTIFICIAL LEAVES. GEORG GUSTAV FOCKE, Dresden-Blasewitz, Germany. Filed May 8, 1913. Serial No. 766,802. 10 Claims. (Cl. 41—3.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a machine for making artificial leaves, a revolving feeder having a periphery of non-uniform curvature for feeding wire through said machine, and means for maintaining the said wire upon the periphery of said feeder during the revolution thereof.

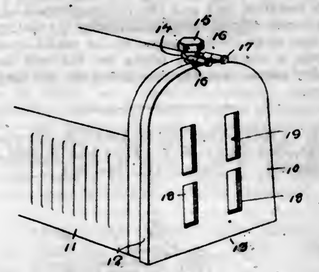
1,401,063. SUPERHEATER. FRANK W. FOFFORT, Lawa, Calif. Filed Oct. 29, 1918. Serial No. 260,124. 2 Claims. (Cl. 122—481.)



1. In combination with a locomotive engine boiler, a super-heating apparatus comprising receiving and discharging manifolds and connecting elements, or units, located within the fire-box or combustion chamber, saturated and super-heated steam conductors in communication respectively with said manifold and also in communication respectively with the steam dome of the boiler and the steam supply pipe, and extending longitudinally of and through the boiler, incasing tubes surrounding the portions of said conductors within the boiler and terminally attached to and supported by the forward and rear flue sheets, said tubes being terminally threaded exteriorly, and tubular interior sockets attached respectively to said forward and rear flue sheets and having their flanges secured respectively to the inner and outer surfaces of said sheets.

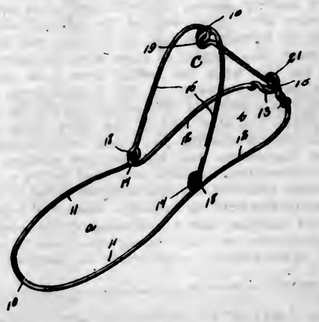
1,401,064. RADIATOR-COVER. BENJAMIN FORTHMAN, Maplewood, Mo. Filed May 10, 1920. Serial No. 380,379. 2 Claims. (Cl. 257—132.)

1. A cover or protector for the radiator of an automobile, consisting of a flanged plate for fitting over said radiator and provided with a ventilating register and a securing means for said cover or protector consisting of a loop extending rearwardly from the upper flange of the plate for engagement with the filling cup or nozzle of



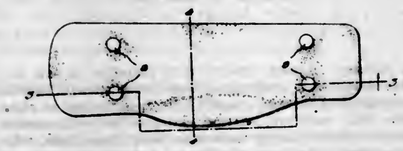
the radiator, the arms of said loop being removably extended through guides, and adjusting nuts engaging the arms for tightening the loop to normally lock said protector to the radiator.

1,401,065. STOCKING-STRETCHER. CHARLES FOWLER, Boston, Mass. Filed June 22, 1920. Serial No. 390,912. 5 Claims. (Cl. 223—19.)



1. A device of the character described comprising an open frame having substantially the shape of the human foot and embodying a toe portion and a heel portion, a ball-shaped member having its arms connected to the sides of said frame at or about the points of intersection of said toe and heel portions, and a brace member for connecting the bight portion of said ball-shaped member with the bight of the heel portion of the frame.

1,401,066. ARCH-SUPPORT. GEORGE GALLOWAY, Cleveland, Ohio. Filed May 24, 1921. Serial No. 472,227. 1 Claim. (Cl. 36—71.)



An arch support for shoes comprising a body member constitutig two plates which are designed to be arranged

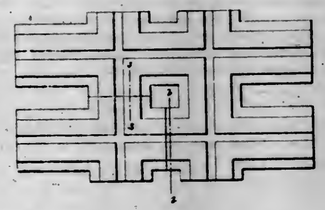
in a shoe, said plates having their confronting ends spaced and being rounded downwardly from their said inner to their outer ends, and their outer ends provided with straight extensions, said members being rounded transversely for the major portions of their lengths from one to their opposite edge and the last mentioned edge being further rounded in an upward direction, flat springs on the under face of the body secured to the plates constituting said body, a compressible facing for the said body, and removable means securing the facing on the body.

1,401,067. CHAIN-FASTENING DEVICE. CHARLES JOHN GARVEY, Port Henry, N. Y. Filed Mar. 3, 1921. Serial No. 449,344. 1 Claim. (Cl. 24—68.)



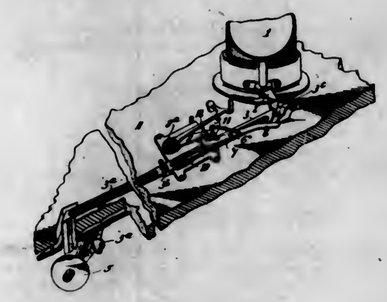
A connecting device for chains comprising a U-shaped yoke member having an integral connecting piece at one of its ends and the other ends thereof being left free and formed into integral lugs having curved inner and outer surfaces, said yoke member also provided with perforated ears extending in spaced relation to the connecting piece, and a locking lever of an elongated construction which is slightly shorter than the yoke piece having an enlargement offset from one end thereof and adapted to rotatably fit between the lugs of the yoke and having a curved inner face adapted to agree with the curved inner face of the lugs when the locking lever is in the closed position, said enlargement of the locking lever forming with the lugs a laterally continuous support for one end of the chain, the other end of the chain being engaged with the yoke connecting piece, said lever having along its inner longitudinal face high and low surfaces with a cam wall connecting the same, said lever having a perforation therein near its free end adapted to lie in registry with the perforations in said ears when the lever is in the closed position, and a removable device adapted to pass through the ears and through the lever to hold the same in locked position, substantially as described.

1,401,068. RAILROAD CONSTRUCTION. JOHN GAZO, Detroit, Mich. Filed Aug. 16, 1920. Serial No. 403,635. 1 Claim. (Cl. 246—454.)



A railway crossing comprising a plurality of rail sections having their confronting ends provided with spaced relatively long sockets, grooved flanges extending at right angles from said rail sections and provided with spaced relatively short alining sockets in their inner ends, relatively short pins engaging the sockets in the grooved flanges, and relatively long spring influenced pins engaging the sockets in said rail sections.

1,401,069. GRAMOPHONE AND LIKE MACHINE. EDWARD ALFRED GRAHAM, Brockley, London, England. Filed Mar. 22, 1921. Serial No. 454,420. 8 Claims. (Cl. 192—116.)



1. In a gramophone or like machine, the combination with a movable device driven from the gramophone motor and an angularly movable tone arm, of a trip device carried by said tone arm, a spring controlled brake lever adapted, when released, to arrest said movable device and motor, a latch member adapted when in its operative position to hold said lever in its inoperative position, and two latch operating members arranged to be actuated by the trip device when moved into its limiting angular positions with the tone-arm, each latch operating member when so operated, acting to cause the latch member to release the said lever.

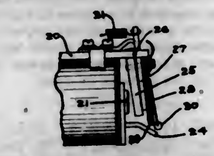
1,401,070. HAIR-BOBBING DEVICE. THEODORE G. GREGORY, Providence, R. I. Filed June 11, 1921. Serial No. 476,880. 4 Claims. (Cl. 132—45.)



4. A device of the class described, comprising longitudinally curved clamping bars adapted to fit one within the other and to hold the hair to be bobbed between them, one of said members being provided on its upper edge with a plurality of up-standing hair engaging fingers having down turned hooks at their free ends to hold the device in adjusted position relative to the hair to be cut and the other member having down turned prongs on its upper edge to engage the first mentioned member to hold the device in operative position.

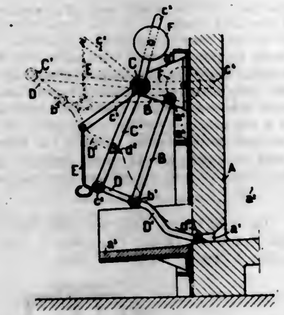
1,401,071. CIRCUIT-CONTROLLER. NELSON R. HAAS, Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company, a Corporation of Ohio. Filed Sept. 6, 1916. Serial No. 118,690. 5 Claims. (Cl. 200—87.)

2. In a circuit controller, the combination with a magnet including a core and windings; of a stationary contact; a pivot pin and support therefor; an armature; a movable contact; and a common means to secure the



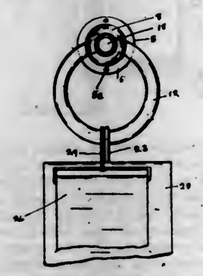
movable contact upon the armature and in proper relation to the stationary contact, and also to clamp the armature upon the pivot pin in proper relation to the magnet core.

1,401,072. DEVICE FOR CLOSING THE TAP-HOLES IN SMELTING-FURNACES. FRIEDRICH HAARMANN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 4, 1920. Serial No. 408,390. 5 Claims. (Cl. 266—42.)



1. A device for closing the tap hole of smelting furnaces comprising a frame, a crank arm mounted thereon, a rod pivotally connected to said crank arm at a point lying between the ends of the rod, a plug for closing said tap hole secured on the one end of said rod, and means movably connecting the other end of the rod to said frame.

1,401,073. SWIVEL CONNECTION. BENJAMIN W. HALL, Manchester, N. H. Filed Sept. 18, 1919. Serial No. 324,729. 2 Claims. (Cl. 248—30.)



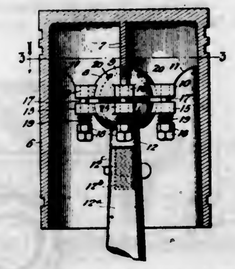
1. A swivel connection consisting of a split ring, a member inclosing the ends of said split ring and adapted to permit of a free swinging motion of the ring on said member, and a split pin extending into said member between the ends of said split rings and provided with a recess adapted to have a snap fit with said member to hold said pin in locked position.

1,401,074. HORSESHOE. BRYANT HARRIS and WILLIS VAN BUREN, Helena, Ark. Filed July 6, 1920. Serial No. 394,392. 2 Claims. (Cl. 168—19.)



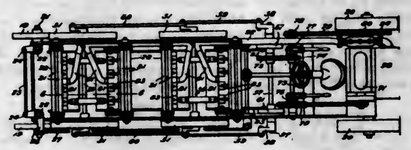
1. A horseshoe comprising two hingedly connected major members in which are oppositely-threaded transverse-alined apertures, telescoped tubular casing sections carried by and arranged between the major members, and a transverse bolt extending through said casing sections and having oppositely-threaded portions in engagement with the threaded apertures of the major members and adapted at one end for the application of a turning implement.

1,401,075. PISTON-ROD CONNECTION. GEORGE HARTWIG, St. Louis, Mo. Filed Mar. 7, 1921. Serial No. 450,254. 5 Claims. (Cl. 74—108.)



1. An engine piston provided with a socket member, a pitman having a ball that fits in the socket member, and a yielding retaining device for holding the ball in the socket member.

1,401,076. COTTON-PICKING MACHINE. EDGAR P. HAYES, Dillon, S. C. Filed May 10, 1920. Serial No. 380,406. 14 Claims. (Cl. 56—41.)

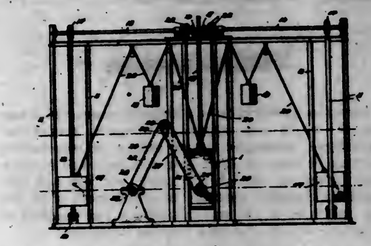


14. A cotton picking machine embodying a pair of pivotally mounted vertically disposed frames, a plurality of vertically movable rotatably mounted picking spindles in each of said frames, means including a driving gear common to both frames, whereby the spindles of one frame will be moved downward while the spindles of the other frame are moving upward and the upwardly moving spindles will travel at a relatively increased speed, means whereby the spindles of each frame will be disposed in a forwardly inclined position during their downward movement to pick the cotton, means for stripping the spindles during their upward movement and means for transferring the cotton from the stripped spindles to a receptacle.

1,401,077. WATER-WHEEL. JOHN J. HENDLEY, Brunswick, Ga. Filed Jan. 8, 1921. Serial No. 435,850. 2 Claims. (Cl. 170—107.)

1. A fluid current motor comprising a water wheel unit adapted to be reciprocated with the rise and fall of the water current, a float in proximity to the water wheel and adapted to rise and fall with changes in the water level, a

screw carried by the water wheel unit, a rotary shaft in engagement with the screw, and means interposed be-



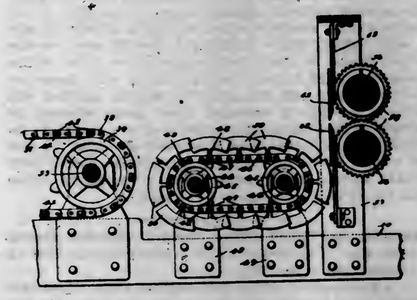
tween the shaft and float for rotating the shaft to reciprocate the screw and the water wheel unit.

1,401,078. SAND-DISPENSING DEVICE FOR MOTOR-VEHICLES. HERMAN J. HINS, San Francisco, Calif. Filed Nov. 30, 1920. Serial No. 427,417. 3 Claims. (Cl. 291—15.)



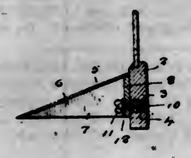
1. The combination with a motor vehicle and the rear mud guards and service brakes thereof, of a sand receptacle within said guards arranged to dispense sand directly in front of the rear wheels of said vehicle; a shutter arranged to permit the passage of sand from said receptacle; means for normally closing said shutter to prevent such passage; and means operatively connected to the shutter and arranged to be connected and disconnected from the service brakes and to open the shutter a degree in proportion to the amount of pressure applied to the service brake when said means are connected thereto, whereby an amount of sand proportionate to the degree of pressure applied to said brakes may be dispensed when said brakes are applied.

1,401,079. BEET-TOPPER. WALTER HOAGG, Detroit, Mich. Filed Dec. 15, 1919. Serial No. 344,868. 3 Claims. (Cl. 146—7.)



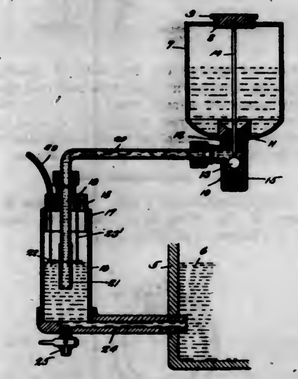
1. In a beet topping machine, topping mechanism comprising spaced upper and lower cutting blades, having their cutting edges arranged to provide a flared entrance for the beet tops, means for conveying the beets toward the blades and moving the beet tops between the cutting edges thereof, said means being disposed in advance of the blades, and a pair of spiral shafts arranged at the opposite sides of the blades, said shafts being slightly spaced and arranged to engage the tops and screw the latter against the cutting edges of the blades for the purpose specified.

1,401,080. WINDOW ATTACHMENT. HERMAN A. HOBELMANN, Baltimore, Md. Filed Oct. 28, 1919. Serial No. 334,016. 1 Claim. (Cl. 20—40.)



In combination with the lower sash of a window having non-headed threaded socket let in the lower rail thereof, a water shed for the sash comprising a metallic body and a straight back portion provided with apertures which are designed to aline with the sockets in the rail of the sash, said metallic body consisting of sides having their upper edges inclined downwardly and forwardly from said back portion and a top disposed on the upper edges of the sides and back, winged bolts passing through the apertures in said back and engaging the threaded sockets, and wear plates between the heads of the winged nuts and said back.

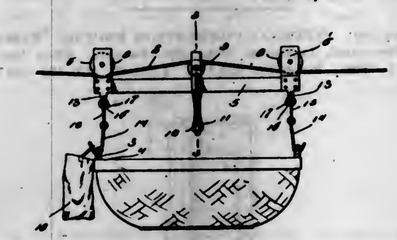
1,401,081. OIL CONTROL AND OIL-FEEDER. SIDNEY C. HOWARD, Columbus, Ohio. Filed Nov. 6, 1920. Serial No. 422,283. 3 Claims. (Cl. 184—103.)



2. In an internal combustion engine having a throttle rod controlling the passage of gas thereto, the combination of a supply tank, a feed tank in communication with the supply tank and having an adjustable head, a pipe disposed within the feed tank and carried by the adjustable head, said pipe having one end disposed within the supply tank, and means on one end of the pipe for controlling the level of oil within the feed tank, said means being automatically controlled by the operation of the throttle rod.

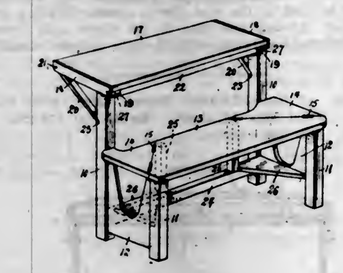
1,401,082. TROLLEY APPARATUS. FRANCIS MARION JOHNSTON, Hoffman, Okla. Filed June 6, 1921. Serial No. 475,406. 1 Claim. (Cl. 105—150.)

A trolley apparatus for carrying a clothes basket, comprising parallel and spaced longitudinal body bars, pendant eyes at the ends of said body bars, means connecting said bars together, bails connected to the said eyes, each



of said bails being detachably connected at one end, and pendent hooks flexibly connected to the bails and adapted to be engaged with the handles of a clothes basket.

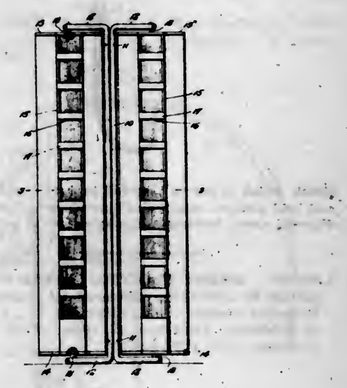
1,401,083. CONVERTIBLE BENCH. CONRAD JURKOVICH, Joliet, Ill., assignor of forty per cent. to Phillip Hibler, Joliet, Ill. Filed Jan. 9, 1920. Serial No. 350,265. 3 Claims. (Cl. 1[illegible])



1. A device of the class described, comprising a supporting frame, a seat supported at one edge from said frame, end supports at the terminals of said seat and attached to the frame, a combined back and table top swinging from said frame, cleats in spaced relation attached to the table top, and braces swinging at one end between the cleats and concealed thereby when withdrawn and adapted to engage at their free ends against the frame when projected and maintaining said table top in horizontal position.

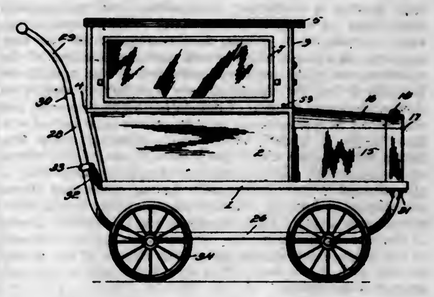
1,401,084. DISPLAY-STAND. CHARLES EDWARD KAYLOR, Lequire, Okla. Filed Mar. 14, 1921. Serial No. 452,360. 1 Claim. (Cl. 211—20.)

In a device of the class described, a non rotatable standard formed of a plurality of rods in parallel relation and fastened together and each having lateral extensions



at the ends, and goods holding casings mounted to rotate respectively between said extensions.

1,401,085. BABY-CARRIAGE. OPAL E. KILMER, Valparaiso, Ind. Filed Feb. 28, 1921. Serial No. 448,428. 5 Claims. (Cl. 280—30.)

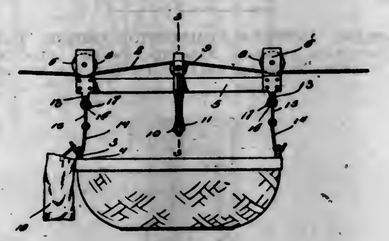


1. In a perambulator, a body, runners attached thereto, and a wheeled chassis having axles extending transversely under said runners in contact therewith, hangers detachably connecting said axles and runners, each of said hangers having hook-like laterally spaced members to fit over one of the runners with a cross bar connecting them to form a seat between it and the runner for the axle, and a set screw operating through said cross bar and engaging said axle to clampingly connect it with the runner.

1,401,086. FISHHOOK. JAMES MANNING KING, Livingston, Tex. Filed July 2, 1921. Serial No. 482,102. 1 Claim. (Cl. 43—28.)

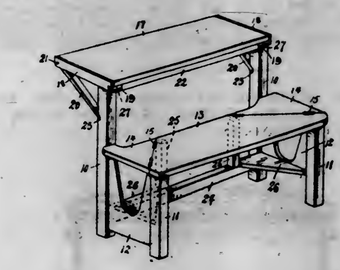
A fish hook connector for fishing tackle composed of a single piece of wire coiled and bent to form two sleeve-like members arranged one across the end of the other and united, the crosswise disposed sleeve being spaced from

ant eyes at the ends of said body bars, means connecting said bars together, bails connected to the said eyes, each



of said bails being detachably connected at one end, and pendent hooks flexibly connected to the bails and adapted to be engaged with the handles of a clothes basket.

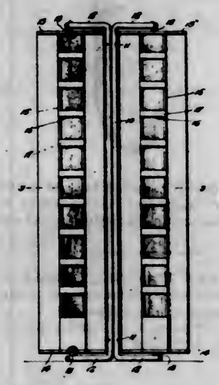
1,401,083. CONVERTIBLE BENCH. CONRAD JURKOVICH, Joliet, Ill., assignor of forty per cent. to Phillip Hibler, Joliet, Ill. Filed Jan. 9, 1920. Serial No. 350,265. 3 Claims. (Cl. 1[illegible])



1. A device of the class described, comprising a supporting frame, a seat supported at one edge from said frame, end supports at the terminals of said seat and attached to the frame, a combined back and table top swinging from said frame, cleats in spaced relation attached to the table top, and braces swinging at one end between the cleats and concealed thereby when withdrawn and adapted to engage at their free ends against the frame when projected and maintaining said table top in horizontal position.

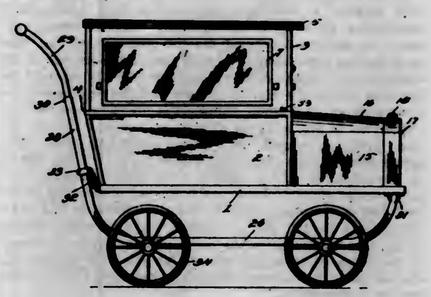
1,401,084. DISPLAY-STAND. CHARLES EDWARD KAYLOR, Lequire, Okla. Filed Mar. 14, 1921. Serial No. 452,360. 1 Claim. (Cl. 211—20.)

In a device of the class described, a non rotatable standard formed of a plurality of rods in parallel relation and fastened together and each having lateral extensions



at the ends, and goods holding casings mounted to rotate respectively between said extensions.

1,401,085. BABY-CARRIAGE. OPAL E. KILMER, Valparaiso, Ind. Filed Feb. 28, 1921. Serial No. 448,428. 5 Claims. (Cl. 280—30.)



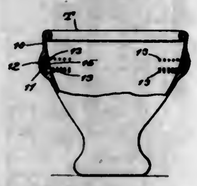
1. In a perambulator, a body, runners attached thereto, and a wheeled chassis having axles extending transversely under said runners in contact therewith, hangers detachably connecting said axles and runners, each of said hangers having hook-like laterally spaced members to fit over one of the runners with a cross bar connecting them to form a seat between it and the runner for the axle, and a set screw operating through said cross bar and engaging said axle to clampingly connect it with the runner.

1,401,086. FISHHOOK. JAMES MANNING KING, Livingston, Tex. Filed July 2, 1921. Serial No. 482,102. 1 Claim. (Cl. 43—28.)

A fish hook connector for fishing tackle composed of a single piece of wire coiled and bent to form two sleeve-like members arranged one across the end of the other and united, the crosswise disposed sleeve being spaced from

mentioned receptacle, and a handle formed intermediate the ends of said bail, said handle projecting inwardly of the inner receptacle and providing means for operating the bail to disengage it from the annular groove to permit of removal of the inner receptacle.

1,401,091. VENTILATING APPARATUS FOR CLOSET-BOWLS. ARTHUR W. LUCAS, Fremont, Nebr. Filed Jan. 29, 1921. Serial No. 441,010. 2 Claims. (Cl. 4—21.)



1. In a ventilating apparatus for closet bowls, a bowl having the intermediate portion of its wall above the water level, formed with an outwardly extending hollow thickened portion, the bowl being formed at its inner periphery with two series of holes leading into the upper and lower portions of the hollow within the thickened portion of the bowl, a pipe permanently located within the hollow thickened portion and provided at its nuppermost and lowermost points with series of perforations, and means for creating suction through said pipe.

1,401,092. EXTRICATING DEVICE. JOHN MCCUTCHEON, Peabody, Kans. Filed Aug. 2, 1921. Serial No. 489,244. 4 Claims. (Cl. 238—14.)



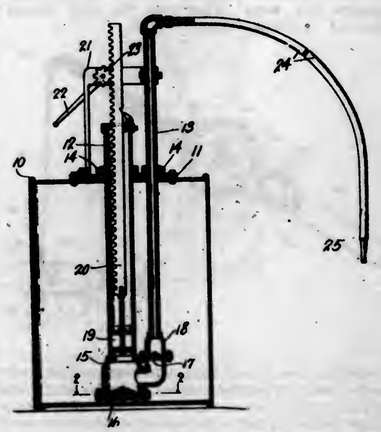
1. An automobile extricating device comprising an elongated shoe curved transversely, a chain wrapped around the shoe, and a cable having one end secured to one end of the shoe for the purpose specified.

1,401,093. CONTROLLING DEVICE. FRANK ALBA MCDANIELS, Portland, Oreg. Filed July 13, 1920. Serial No. 395,985. 9 Claims. (Cl. 74—39.)



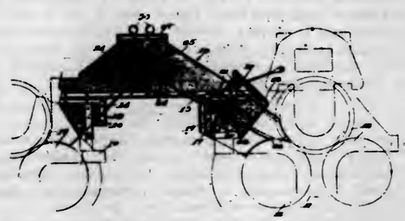
1. The combination with a pair of pivoted levers, of independent means for retaining the same against movement, independent means for releasing the same, and means for simultaneously releasing the same, said latter means also serving to couple the levers for simultaneous movement.

1,401,094. PUMP. LAWRENCE E. MAY, Nashville, Tenn. Filed Feb. 14, 1921. Serial No. 445,037. 1 Claim. (Cl. 221—80.)



In combination, a tank having an opening in the top thereof, a plate closing the opening and having spaced bores, a cylinder passed through one of the bores and arranged within the tank, a vertical offset portion formed on the lower end of the cylinder, an outlet pipe rising from the offset portion and passing through the other bore of said plate, a valve in the lower end of the cylinder, a second valve in said offset portions, a piston arranged to reciprocate within the cylinder, a rack bar associated with the piston and projecting through the upper end of the cylinder, a bracket arranged exteriorly of the tank and supported by said plate, said bracket being associated with said outlet pipe, a crank handle journaled on said bracket, a gear associated with said crank and meshing with the rack bar to reciprocate the piston, means for limiting the movement of the rack bar in one direction, and a flexible tube coupled with one end of the outlet pipe.

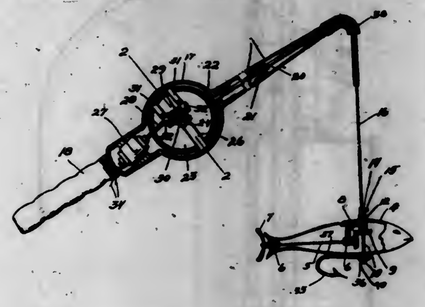
1,401,095. CANE-SUGAR MILL. JOSEPH MEINECKE, Paia Maui, Hawaii. Filed July 7, 1920. Serial No. 394,456. 7 Claims. (Cl. 100—47.)



2. A chute of the character described for disposition between spaced mills of a cane sugar mill or the like, comprising oppositely sloping bottom portions, side por-

tions therefor adapted to conform to the rollers of the mill, the bottom portion at the receiving side being provided with a removable cover and the bottom portion at the discharge side of the chute being uncovered, and means for supplying macerating fluid at the apex portion of the chute whereby the bagasse may expand unrestrained by the cover.

1,401,096. DECOY-MINNOW. WESELY R. NEUBECK, Kansas City, Kans. Filed June 12, 1920. Serial No. 388,602. 1 Claim. (Cl. 43—43.)



A fishing tackle comprising a rod, an artificial minnow provided with a propeller member, a flexible shaft forming the tackle line between said rod and minnow and rotatably connected with the latter, a fish hook provided with a swivel connection with the free end of said shaft, said connection permitting rotary movement of said shaft, the intermediate shank portion of said hook having a detachable connection with the minnow, and means operable through said shaft for actuating said propeller member.

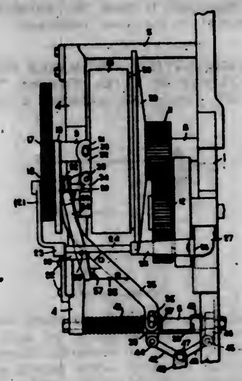
1,401,097. IRRIGATING-VALVE. JOHN A. NICKOLAUS, Richland, Wash. Filed Feb. 6, 1920. Serial No. 356,720. 1 Claim. (Cl. 251—95.)



An irrigating valve comprising a sheet metal pipe having a port formed therein, a tubular sheet metal sleeve rotatably fitted within the pipe and having a port adapted to register with the port in said pipe, a pin carried by said sleeve, said pipe being formed with a slot to receive said pin and to thereby restrict the rotational movement of the sleeve, a plug tightly fitted within one end of the sleeve for rotation therewith, and a handle formed on the plug for actuating the sleeve.

1,401,098. HAND-WHEEL MECHANISM FOR LOOMS AND OTHER MACHINES. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Oct. 15, 1920. Serial No. 417,188. 5 Claims. (Cl. 74—7.)

1. In a machine having a driving shaft, power supplying means, a clutch for transmitting power therefrom to said driving shaft having means normally tending to disengage said clutch and means for shifting said clutch into operative position, a hand wheel, means operable by said hand wheel for rotating said driving shaft and means operable by the shifting of said clutch to operative po-



sition to render and maintain said hand wheel inoperative during the actuation of the driving shaft by the power-supplying means.

1,401,099. BUNCH-HOLDING DEVICE FOR HOSE-SUPPORTERS. ANDREAS G. ANDERSON, Stoneham, Mass. Filed Sept. 9, 1921. Serial No. 499,414. 4 Claims. (Cl. 24—73.)

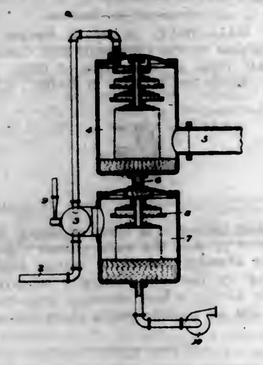


1. A bunch-holding device for hose supporters made from a single length of wire, comprising at one end of said wire a lower bunch-holding member having a free spring arm, a hooked upper supporting member at the other end of said wire, and a loop in said wire intermediate its ends.

1,401,100. SYSTEM FOR REMOVING AIR AND GASES FROM WATER. RAYMOND N. EHRHART, Pittsburgh, Pa., assignor to Elliott Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 5, 1920. Serial No. 386,833. 7 Claims. (Cl. 183—3.)

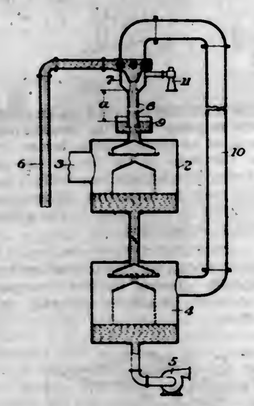
1. In a system for removing air and other dissolved gases from liquids in which the liquid is introduced into an evaporator having a pressure which is definitely lower than the pressure corresponding to the temperature of the liquid immediately prior to its introduction into the evaporator and is thereby caused to evaporate under the action of its contained heat, the method which consists

in passing the vapor and gases from the evaporating chamber through a condenser and continuously regulating the rate of condensation in the condenser to thereby con-



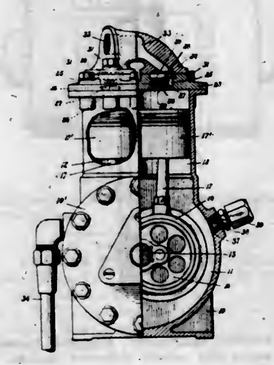
trol within predetermined limits the amount of heat given up by the liquid in the evaporator, substantially as described.

1,401,101. SYSTEM FOR REMOVING AIR AND GASES FROM WATER. RAYMOND N. EHRHART, Pittsburgh, Pa., assignor to Elliott Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 5, 1920. Serial No. 386,835. 3 Claims. (Cl. 183—3.)



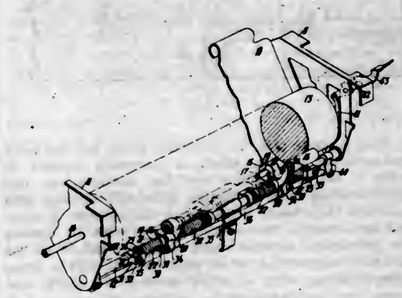
1. In the treatment of liquids for heating the same and for the removal of air and gases therefrom, the method which consists in introducing the liquid to be treated into an evaporator in which a pressure is maintained lower than the pressure corresponding to the temperature of the liquid before it enters the evaporator, passing the vapors from the evaporator through a condenser, and simultaneously withdrawing air from the liquid entering the condenser and passing therethrough to a heater, and from the steam coming from the evaporator and heating the liquid in said heater, substantially as described.

1,401,102. COMPRESSOR. FREDRICK J. HEIDEMAN, Detroit, Mich., assignor, by mesne assignments to The Isko Company, Chicago, Ill., a Corporation of Delaware. Filed Jan. 19, 1917. Serial No. 143,311. 5 Claims. (Cl. 230—27.)



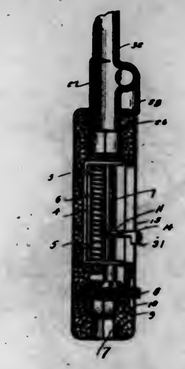
1. In a compressor, the combination of a crank case and cylinders, a crank shaft in the crank case, pistons and connecting rods, a conduit leading to the crank case, a conduit between the cylinders leading from the crank case to a port in each of the cylinders, and an outlet conduit.

1,401,103. TYPEWRITING-MACHINE. WILLIAM F. HELMOND, Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of New York. Filed May 14, 1919. Serial No. 297,097. 3 Claims. (Cl. 197—138.)



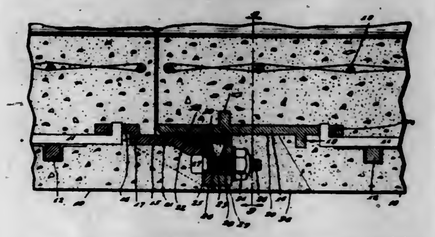
1. The combination, with the letter-spacing carriage of a typewriter, having a platen and a platen-frame mounted therein, of a feed-roll-supporting bar mounted in said frame, forwardly and rearwardly-projecting feed-roll-supporting arms spaced along and journaled on said bar, front and rear feed-rolls supported by said arms, springs coiled about said bar, one for each arm, worm-wheels journaled on said bar, one for each spring, each spring being connected at one end to an arm and at its other end to a worm-wheel, a spring-adjusting screw in mesh with each worm-wheel, and a mount for each screw, said mounts being fixed to said bar, and said screws being journaled in said mounts, with their heads disposed downwardly, so as to be accessible from below on movement of said carriage to one end or the other of its range of travel.

1,401,104. SURGICAL INSTRUMENT. HENRY KRUESHELD and ALLEN J. WALTER, Mansfield, Ohio. Filed Mar. 15, 1920. Serial No. 366,011. 5 Claims. (Cl. 219—31.)



1. In a surgical instrument, electrical resistance, and means to selectively secure different sounds over said resistance whereby a single resistance is common to all of the sounds.

1,401,105. METALED-END CONCRETE PIPE. COLEMAN MERIWETHER, Louisville, Ky., assignor to Peter C. Reilly, Indianapolis, Ind. Filed Mar. 28, 1921. Serial No. 456,297. 5 Claims. (Cl. 72—53.)



1. In a concrete pipe, an embedded metal bell having a spigot-receiving portion which is internally tapered to provide a tapered packing-receiving shoulder, an end flange, clamping bolts projecting outwardly through said flange with their heads embedded in the concrete, a metal spigot embedded in the concrete formed with an exposed outer cylindrical surface which may be received in the spigot-receiving portion of an adjacent bell, and a metal packing-engaging ring arranged around the spigot and adjacent the packing-receiving surface and arranged to be clamped against the packing by said bolts to force the packing into the tapered opening between the outer surfaces of the spigot and the tapered inner surface of the bell.

1,401,106. PROCESS OF TREATING TOBACCO-LEAF. JOSÉ SANTIAGO VILLACORTA, San Ildefonso, Bulacan, Philippine Islands. Filed Aug. 9, 1921. Serial No. 490,975. 5 Claims. (Cl. 131—55.)

1. A process for the treatment of tobacco which comprises (a) bruising or destroying the continuity of the leaf surface, (b) washing to remove the nicotin and soluble substances, (c) treating with an oxidising compound, and (d) washing to remove any excess of chemicals.

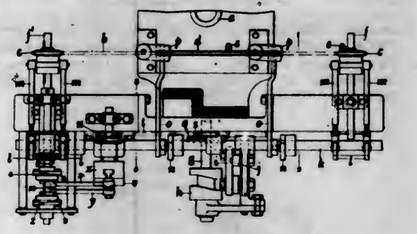
3. A process for the treatment of tobacco which comprises (a) bruising or destroying the continuity of the leaf surface, (b) washing to remove the nicotin and soluble substances, (c) treating with a solution of potassium permanganate and sodium chlorid, (d) neutralising with a solution of oxalic and citric acids, and (e) washing to remove any excess of chemicals.

1,401,107. BALL-SEAT. ALFRED B. BREEZE, Cincinnati, Ohio, assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 5, 1919. Serial No. 321,945. 1 Claim. (Cl. 287—90.)



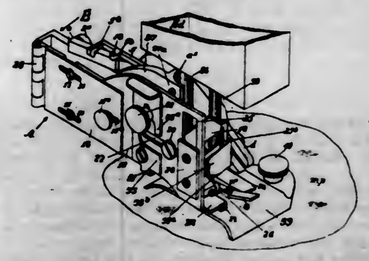
A ball seat formed of a sheet of metal, comprising a double walled portion, the walls pressed together, and a rim portion annularly integrally uniting said walls, one wall having its face side centrally concaved and the second wall having a boss centrally projecting from its face side, and an annular recess about the base of said boss.

1,401,108. POWER-PRESS FOR OPERATING ON METAL SHEETS OR STRIPS. HARRY ALBERT GRIFFITHS, Birmingham, and RICHARD HANSON GRIFFITHS, Sutton Coldfield, England. Filed Feb. 18, 1921. Serial No. 446,116. 6 Claims. (Cl. 164—20.)



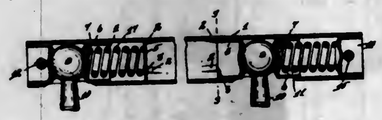
1. In mechanisms for automatically feeding metal sheets or the like between press tools, the combination with a plurality of tools, of an endless chain, means for detachably connecting the sheet or the like to the chain, and means for imparting intermittent longitudinal and lateral movements to the chain for subjecting different portions of the sheet or the like in succession to the action of the tools, substantially as described.

1,401,109. HEMSTITCHING ATTACHMENT FOR SEWING-MACHINES. JAMES HICKEY, Portland, Oreg. Filed Nov. 13, 1917. Serial No. 205,464. 20 Claims. (Cl. 112—160.)



1. An attachment of the character described adapted for being fastened to the presser-bar of a sewing machine and comprising means, including a piercer, for making a hole in the goods in which to receive the needle of the sewing machine, means for feeding the goods sidewise and forward from the needle of the sewing machine, and such means adapted to be operatively connected with and operated through the medium of the needle bar of the sewing machine.

1,401,110. STEERING REACH-ROD. RICHARD A. KAPS, Cincinnati, Ohio, assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 5, 1919. Serial No. 308,847. 2 Claims. (Cl. 287—90.)



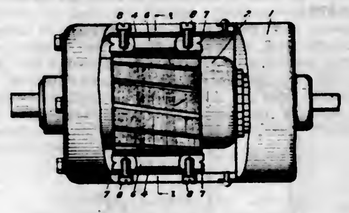
1. The combination with a tubular member having an opening in one side for the reception of a ball end member, socket pieces engaged within said tubular member providing opposing seats for the ball end member, each socket piece comprising a sheet metal stamping of cup formation consisting of a cylindrical body portion, and a concavo-convex head closing one end of said body portion, the structure providing from one end side a spring receiving pocket with an annularly recessed base, and from the opposite side a concave ball seat centrally with an annular conical rim.

1,401,111. FLUID CHECK FOR LIFTING-TRUCKS. WILLIAM B. STOEL, Amelia, Ohio, assignor, by mesne assignments, to The Stuebing Truck Co., Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 4, 1917. Serial No. 194,808. 3 Claims. (Cl. 188—96.)

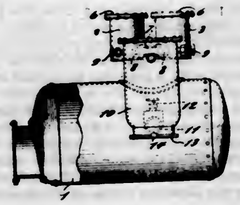
1. A fluid check device for lifting trucks comprising a cylinder adapted to be connected at one end to a fixed part of a truck, a piston in said cylinder, a rod carried by said piston and extending through the other end of the cylinder for connection with a movable part of the truck, said piston having longitudinal openings therein, a tensioned valve on said rod arranged adjacent the piston openings, one of said openings being enlarged adjacent the inner end of the piston, a pin within the smaller bore of the last named opening and carrying a head extending into the large end of the opening, a coil spring within the large end of the opening and normally engaging the head of the pin to project the pin from the forward end of the piston for engagement with the tensioned valve to space the valve from the piston openings, and a closure plug for the inner end of the enlarged opening engaged by one end of said spring, the tensioned valve being operable under pressure to permit movement thereof to close the piston openings.

1,401,112. DYNAMO-ELECTRIC MACHINE. ALVIN E. BUCHENBRAG, Toledo, Ohio, assignor to Electric Auto-Lite Corporation, Toledo, Ohio, a Corporation of Delaware. Filed June 25, 1917. Serial No. 176,810. 11 Claims. (Cl. 171—252.)

1. In a dynamo electric machine, the combination of a frame, a pole piece, means extending through said pole piece for reducing flux distortion therein and means engaging said first means and said frame for clamping said pole piece to said frame.

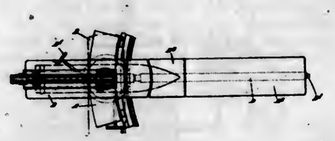


1,401,113. PROCESS FOR TREATING RESIDUES RESULTING FROM THE TREATMENT OF HYDROCARBON WITH ALUMINUM CHLORID. LOUIS BURGESS, New York, N. Y., assignor to Standard Oil Company, a Corporation of New Jersey. Filed Jan. 15, 1918. Serial No. 211,912. 9 Claims. (Cl. 23—13.)



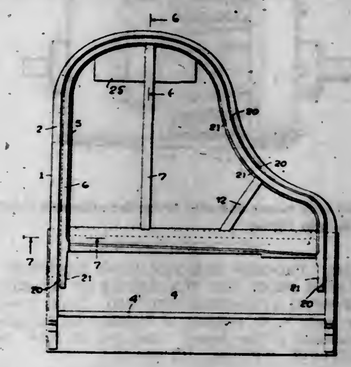
9. The process of treating residue resulting from heat treatment of hydrocarbon oil in the presence of anhydrous aluminum chlorid, which consists in heating said residue to a temperature sufficient to cause decomposition of the residue into volatilised products, including gaseous hydrochloric acid, at a temperature sufficient to initiate exothermic reaction when contacted with aluminum carbid, and passing said volatilised products while at such temperature in contact with aluminum carbid.

1,401,114. SHELL-BOGIE FOR USE WITH AMMUNITION-HOISTING APPARATUS FOR ORDNANCE. ARTHUR TREVOR DAWSON, Westminster, London, and JAMES HORNE, Barrow-in-Furness, England, assignors to Vickers Limited, Westminster, London, England. Filed Sept. 4, 1920. Serial No. 408,324. 6 Claims. (Cl. 89—46.)



1. In ammunition hoisting apparatus for ordnance, the combination with the ammunition trunk, the shell bogie on said trunk and the shell receptacle of the lifting cage in said trunk, of a shell receptacle on said bogie and means for pivoting the last-mentioned receptacle for swinging about a vertical axis to bring it into line with the first-mentioned receptacle.

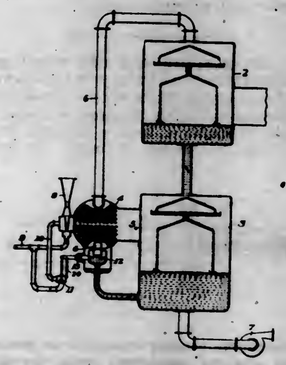
1,401,115. GRAND-PIANO CONSTRUCTION. BRADFORD C. EDMANDS, Newton, Mass., assignor to American Piano Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 21, 1920. Serial No. 418,530. 14 Claims. (Cl. 84—176.)



1. A grand piano comprising a case rim having an inwardly projecting reinforcing rib, a skeleton frame secured to and supported by said rib, and securing means connecting said skeleton frame and rim to hold the same in fixed relation together with a sounding board and an iron frame.

10. The improvement in the art of constructing grand pianos which comprises constructing and assembling the skeleton frame, sounding-board and musical instrumentalities, constructing and finishing separately the case-rim having a reinforcing rib which affords support for the skeleton frame, assembling the skeleton frame and rim, and securing the skeleton frame to the reinforcing rib.

1,401,116. SYSTEM FOR REMOVING AIR AND GASES FROM WATER. RAYMOND N. EHRHART, Pittsburgh, Pa., assignor to Elliott Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Original application filed June 5, 1920, Serial No. 386,834. Divided and this application filed Apr. 1, 1921. Serial No. 457,596. 6 Claims. (Cl. 183.3.)



1. In apparatus of the character described, the combination of an evaporator, a condenser connected to the evaporator, an exhaust pump for drawing the vapors and gases from the evaporator through the condenser, and means controlled by the rate of condensation in the condenser for varying the capacity of said pump, substantially as described.

1,401,117. COPPER CATALYST. DAVID ALLISTON LEGG, London, England, assignor to Matthew Atkinson Adam, London, England. Filed Oct. 24, 1921. Serial No. 510,097. 4 Claims. (Cl. 23—28.)

3. The use of cupric oxid fused into a spongy mass as a catalyst.

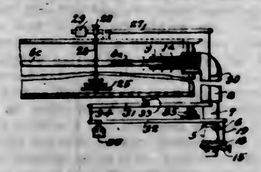
1,401,118. EYE-SHADE. WALTER K. MILNE, Brooklyn, N. Y. Filed June 3, 1921. Serial No. 474,680. 3 Claims. (Cl. 2—149.)



1. As an article of manufacture, an eye shade comprising two shade members each of which extends over the eye to a point adjacent the outer corner of the same, and a bridge piece having a resilient connection with the shade members, whereby the whole is rendered self-adjusting and the shade members held in juxtaposition to eye brows of the wearer throughout their entire length.

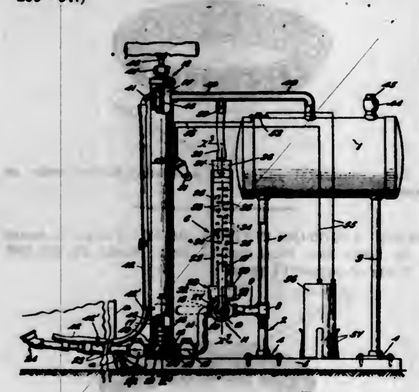
REISSUES.

15,247. INCUBATOR. ERNEST D. CHARTERS, Santa Cruz, Calif., assignor to Charters Manufacturing Co., Santa Cruz, Calif., a Corporation of California. Filed June 19, 1920. Serial No. 390,266. Original No. 1,271,606, dated, July 9, 1918, Serial No. 116,755, filed Aug. 24, 1916. 9 Claims. (Cl. 236—4.)



6. In an incubator, a burner, a pair of oscillatory shutters arranged on opposite sides of the burner and movable simultaneously toward and away from the burner for regulating the flame thereof, the distal edges of the shutters being adapted to meet over the burner when moved to shutting position, whereby the flame may be extinguished, said shutters having a cut-away portion at corresponding corners of said distal edge portions thereof to provide a comparatively small pilot flame at one side edge of the burner.

15,248. FUMIGATING AND SPRAYING APPARATUS. WILLIAM G. DINGLE, Los Angeles, Calif., assignor to Owl Fumigating Corporation, New York, N. Y., a Corporation of Delaware. Filed July 2, 1920. Serial No. 398,725. Original No. 1,304,746, dated May 27, 1919, Serial No. 167,119, filed May 5, 1917. 10 Claims. (Cl. 299—97.)



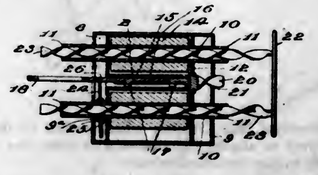
1. In a hydrocyanic acid fumigating apparatus the combination of a supply tank; a measuring means; connections between said tank and said measuring means; a delivering means; connections between said measuring means and said delivering means; vent connection leading from said tank and discharging adjacent said delivery means; and means adapted to force the measured hydrocyanic acid through said delivery means, substantially as described.

15,249. PORTABLE ELECTRIC LIGHT. JOHN T. DRUFVA, Longmeadow, Mass., assignor to Henry Hyman & Co., Inc., New York, N. Y., a Corporation of New York. Filed Nov. 8, 1920. Serial No. 422,738. Original No. 1,287,262, dated Dec. 10, 1918, Serial No. 226,583, filed Apr. 4, 1918. 17 Claims. (Cl. 200—60.)



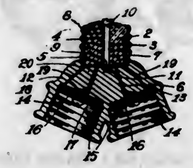
17. A circuit switch mechanism for a portable electric lamp, comprising, an escutcheon mounted on the lamp, a flexible contact member slidably mounted in said escutcheon, a thumb piece connected to said member and adapted to slide the same to contacting position, and a push-button adapted to flex said member to contacting position.

15,250. BLADE-SHARPENING DEVICE. GEORGE D. GALLAGHER, New Haven, Conn., assignor, by direct and mesne assignments, of twenty-five one hundred and fourths to Nannie T. Hoos, twenty-five one hundred and fourths to Ruth B. Walten, four one hundred and fourths to Marguerite G. Schanberger, and twenty-five one hundred and fourths to Mabel E. Mohr, Baltimore, Md., and twenty-five one hundred and fourths to Callie F. Moore, Washington, D. C. Filed Jan. 11, 1921. Serial No. 436,572. Original No. 1,319,149, dated Oct. 21, 1919, Serial No. 132,425, filed Nov. 20, 1916. Renewed Dec. 30, 1918, Serial No. 268,877. 29 Claims. (Cl. 51—86.)



2. A device of the class described comprising a supporting casing, a stropping roll and a blade holder mounted thereon, a hand operated driver reciprocable relatively to said support in a plane parallel with the axis of said stropping roll, and devices actuated by the reciprocation of said driver and connected to said stropping roll and blade holder for actuating said roll and for automatically positioning the blade relatively thereto.

15,251. ELECTRIC PLUG-RECEPTACLE. WILLIAM ILE, Lynbrook, N. Y., assignor to Hennes Electric Manufacturing Company Inc., New York, N. Y., a Corporation of New York. Filed Mar. 9, 1920. Serial No. 364,518. Original No. 1,300,270, dated Apr. 15, 1919, Serial No. 149,458, filed Feb. 19, 1917. 7 Claims. (Cl. 173—335.)

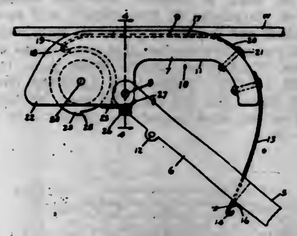


1. A plug receptacle, comprising a plug of insulating material having a single hole extending therethrough from end to end, a threaded metal casing encircling a portion of said plug, a bolt extending through the hole in said plug, a metal member secured to said bolt and carrying branch electrical contacts, socket shells connected with and insulated from, said central metal member, flexible electrical connections secured to the exterior of said socket shells and to the inward end of the plug casing, and a unitary mass of insulating material surrounding said socket shells and the inward end of the plug casing and completely embedding the electrical connections between the plug and the sockets.

15,252. SLIDING TROLLEY. OTTO MOORE, Frankfort, Ind., assignor, by mesne assignments, of one-half to Automatic Sliding Trolley Company, Frankfort, Ind., a Corporation. Filed Oct. 1, 1921. Serial No. 504,806. Original application filed Apr. 26, 1920, Serial No. 376,765. Renewed July 11, 1921. Serial No. 483,951. Original No. 1,387,897, dated Aug. 16, 1921. 8 Claims. (Cl. 191—59.1.)

1. A device of the class described including a trolley harp for making electrical contact with a trolley wire, a

shoe pivotally secured to said harp and adapted to slidably engage the trolley wire when the trolley is moving



in one direction, and a trolley wheel carried by the shoe and adapted to engage the trolley wire when the trolley is moving in the opposite direction.

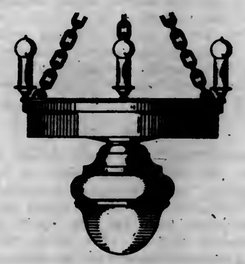
DESIGNS.

60,000. LIGHTING-FIXTURE. HARRY C. ADAM, St. Louis, Mo. Filed Apr. 15, 1921. Serial No. 461,685. Term of patent 14 years.



The ornamental design for a lighting fixture, as shown.

60,001. LIGHTING-FIXTURE. HARRY C. ADAM, St. Louis, Mo. Filed Apr. 15, 1921. Serial No. 461,686. Term of patent 14 years.



The ornamental design for a lighting fixture, as shown.

60,002. LIGHTING-FIXTURE BODY. HARRY C. ADAM, St. Louis, Mo. Filed Apr. 15, 1921. Serial No. 461,687. Term of patent 14 years.



The ornamental design for a lighting-fixture body, as shown.

60,003. LIGHTING-FIXTURE BODY. HARRY C. ADAM, St. Louis, Mo. Filed Apr. 15, 1921. Serial No. 461,688. Term of patent 14 years.



The ornamental design for a lighting-fixture body, as shown.

60,004. SEMI-INDIRECT LIGHTING-FIXTURE REFLECTOR. HARRY C. ADAM, St. Louis, Mo. Filed Apr. 15, 1921. Serial No. 461,689. Term of patent 14 years.

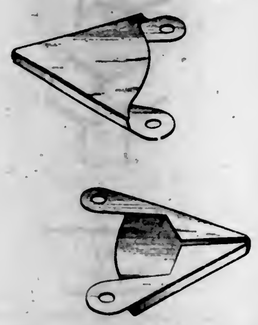
The ornamental design for a semi-indirect lighting-fixture reflector, as shown.

60,005. COMBINED WALL-BRACKET AND LAMP. HARRY C. ADAM, St. Louis, Mo. Filed Apr. 15, 1921. Serial No. 461,690. Term of patent 14 years.



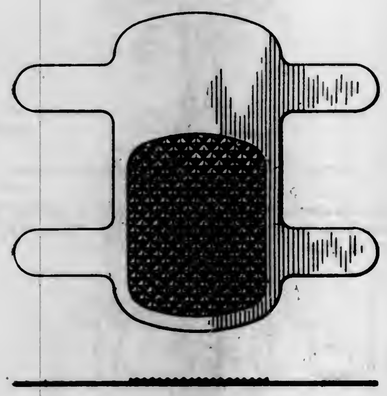
The ornamental design for a combined wall bracket and lamp, as shown.

60,006. DESK-PAD CORNER-CLIP. HENRY T. ADAMS, Chicago, Ill., assignor to Henry T. Adams Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed July 11, 1921. Serial No. 483,983. Term of patent 14 years.



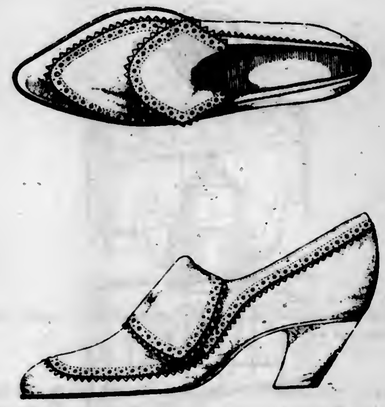
The ornamental design for a desk-pad corner-clip, as shown.

60,007. MATCH-SCRATCHER. BERNARD BALDWIN, Los Angeles, Calif. Filed June 21, 1921. Serial No. 479,386. Term of patent 7 years.



The ornamental design for a match scratcher, substantially as shown.

60,008. SHOE. VINCENZO BENEDETTI, Palisade, N. J. Filed Sept. 28, 1921. Serial No. 508,985. Term of patent 3½ years.



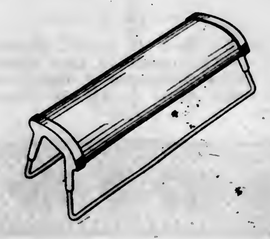
The ornamental design for a shoe, as shown.

60,009. MILK-BOTTLE OPENER. BERNARD BIEHL, Sr., Newark, N. J., assignor to J. L. Sommer Manufacturing Co., a Corporation of New Jersey. Filed July 23, 1921. Serial No. 487,198. Term of patent 14 years.



The ornamental design for a milk bottle opener, as shown.

60,010. READING-GLASS. LUCIAN W. BUGBEE, Indianapolis, Ind., assignor to Franklin Optical Company, Indianapolis, Ind., a Corporation. Filed Feb. 5, 1921. Serial No. 442,841. Term of patent 14 years.



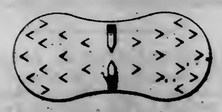
The ornamental design for a reading glass, as shown.

60,011. ALUMINUM COFFEE-PERCOLATOR. HOWARD A. CHURCH, Elkhart, Ind. Filed June 22, 1921. Serial No. 479,671. Term of patent 7 years.



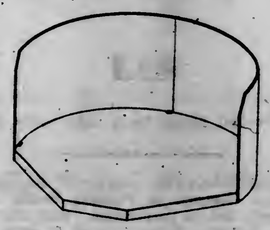
The ornamental design for an aluminum coffee percolator, as shown.

60,012. SOCK-RETAINER FOR BOOTS AND SHOES. JAMES THOMAS COOPER, London, England. Filed Aug. 11, 1921. Serial No. 491,589. Term of patent 14 years.



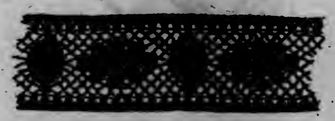
The ornamental design for a sock retainer for boots and shoes, as shown.

60,013. GAME-BOARD. RICHARD HENRY COTTER, Brooklyn, N. Y. Filed July 21, 1921. Serial No. 486,612. Term of patent 3½ years.



The ornamental design for a gameboard, as shown.

60,014. LACE. MARC H. DAUDY, Philadelphia, Pa., assignor to North American Lace Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 24, 1921. Serial No. 495,104. Term of patent 3½ years.



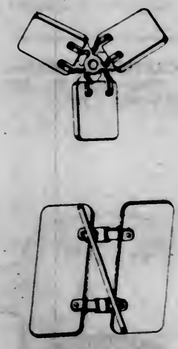
The ornamental design for lace, substantially as shown.

60,015. CHURN-DASHER. NATHAN P. DAZEY, St. Louis, Mo. Filed Feb. 2, 1921. Serial No. 441,906. Term of patent 14 years.



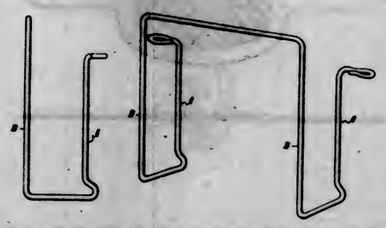
The ornamental design for a churn dasher, as shown.

60,016. CHURN-DASHER. NATHAN P. DAZEY, St. Louis, Mo. Filed Feb. 3, 1921. Serial No. 442,304. Term of patent 14 years.



The ornamental design for a churn dasher, as shown.

60,017. BOOKRACK. HAROLD H. FERREY, Newark, N. J. Filed Sept. 14, 1920. Serial No. 410,349. Term of patent 3½ years.



The ornamental design for a bookrack, as shown.

60,018. COIN OR TOKEN. STEWART P. FOLTZ, New Castle, Pa., assignor to Harry H. Weinberger, New York, N. Y. Filed Aug. 31, 1921. Serial No. 497,387. Term of patent 14 years.



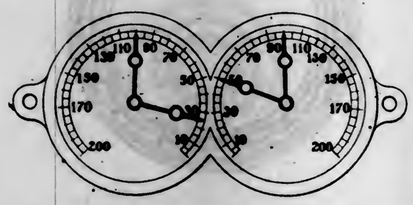
The ornamental design for a coin or token, as shown.

60,019. ADVERTISING NOVELTY. CHARLES H. FORBELL, Douglas Manor, N. Y., assignor to William E. Dodd, New York, N. Y. Filed Nov. 15, 1920. Serial No. 424,302. Term of patent 3½ years.



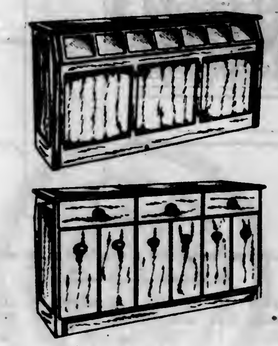
The ornamental design for an advertising novelty as shown.

60,020. PRESSURE-INDICATING GAGE. CHARLIE GARTON, Long Run, Ky., assignor to The Ashton Valve Company, Boston, Mass., a Corporation of Massachusetts. Filed July 2, 1921. Serial No. 482,225. Term of patent 14 years.



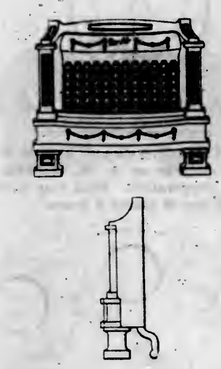
The ornamental design for a pressure-indicating gage, as shown.

60,021. DISPLAY-COUNTER. GEORGE W. GRAY, Seattle, Wash. Filed Mar. 22, 1921. Serial No. 454,492. Term of patent 3½ years.



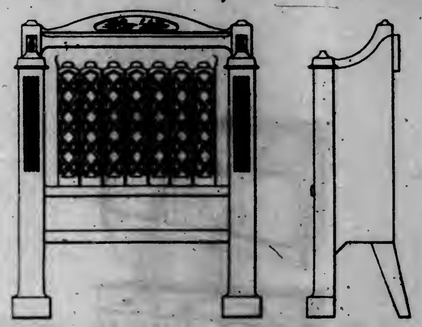
The ornamental design for a display counter, as shown.

60,022. GAS-HEATER. JOHN H. GRAYSON, Athens, Ohio. Filed Mar. 25, 1921. Serial No. 455,647. Term of patent 14 years.



The ornamental design for a gas heater, as shown.

60,023. GAS-HEATER. JOHN H. GRATSON, Athens, Ohio. Filed Mar. 25, 1921. Serial No. 455,648. Term of patent 14 years.



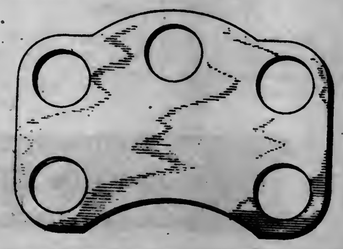
The ornamental design for a gas heater, as shown.

60,024. COIN OR TOKEN. DIMOCK W. HOLLISTER, Philadelphia, Pa., assignor to Harry H. Weinberger, New York, N. Y. Filed Aug. 31, 1921. Serial No. 497,397. Term of patent 14 years.



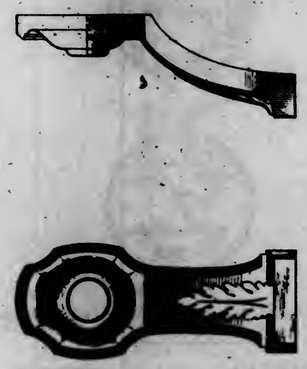
The ornamental design for a coin or token, as shown.

60,025. ICE-CREAM-CONE TRAY. JOSEPH W. HOODWIN, Chicago, Ill., assignor to J. W. Hoodwin Company, Chicago, Ill., a Corporation. Filed July 9, 1921. Serial No. 483,575. Term of patent 7 years.



The ornamental design for an ice cream cone tray as shown.

60,026. ARM FOR LIGHTING-FIXTURES. HAMILTON T. HOWELL, New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed Mar. 30, 1921. Serial No. 457,070. Term of patent 14 years.



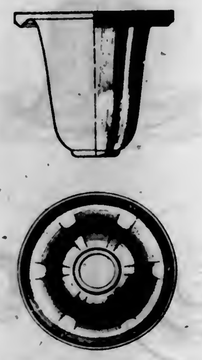
The ornamental design for an arm for lighting fixtures, as shown.

60,027. CUT-OUT RING. HAMILTON T. HOWELL, New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed Mar. 30, 1921. Serial No. 457,071. Term of patent 14 years.



The ornamental design for a cut out ring, as shown.

60,028. CANDLE-CUP. HAMILTON T. HOWELL, New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed Mar. 30, 1921. Serial No. 457,072. Term of patent 14 years.



The ornamental design for a candle cup, as shown.

60,029. DEEP-BODY SHELL. HAMILTON T. HOWELL, New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed Mar. 30, 1921. Serial No. 457,074. Term of patent 14 years.



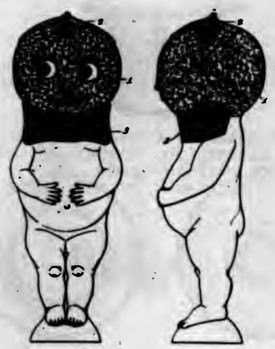
The ornamental design for a deep body shell, as shown.

60,030. PLATE FOR LIGHTING-FIXTURES. HAMILTON T. HOWELL, New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed Mar. 30, 1921. Serial No. 457,077. Term of patent 14 years.



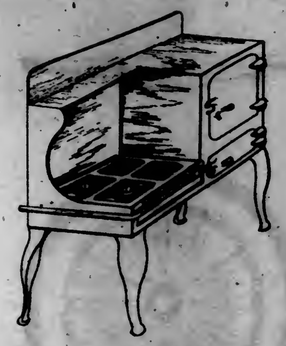
The ornamental design for a plate for lighting fixtures, as shown.

60,031. DOLL. CLAUDE JOHNSTONE, St. Louis, Mo. Filed Aug. 8, 1921. Serial No. 490,801. Term of patent 14 years.



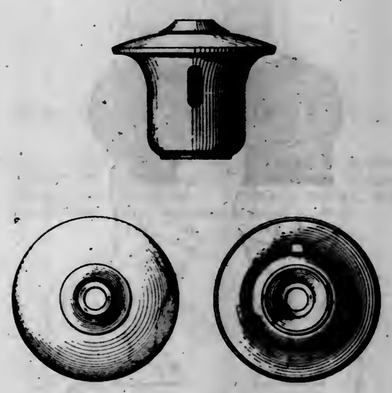
The ornamental design for a doll as shown and described.

60,032. TOY GAS-STOVE. LEARNEE C. JOHNS, Battle Creek, Mich. Filed June 9, 1920. Serial No. 387,754. Term of patent 3½ years.



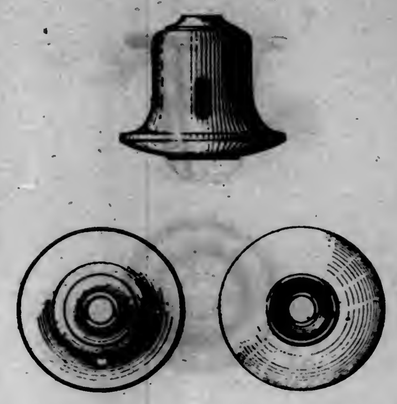
The ornamental design for a toy gas stove, as shown.

60,033. SOCKET-COVER. WALTER R. KAHNS, Brooklyn, N. Y., assignor to J. H. White Manufacturing Company, Brooklyn, N. Y., a Corporation of New York. Filed Feb. 17, 1921. Serial No. 445,892. Term of patent 3½ years.



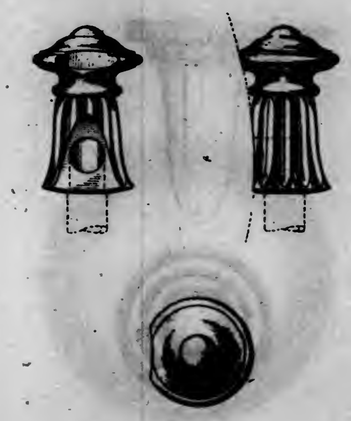
The ornamental design for a socket cover, as shown.

60,034. SOCKET-COVER. WALTER R. KAHNS, Brooklyn, N. Y., assignor to J. H. White Manufacturing Company, Brooklyn, N. Y., a Corporation of New York. Filed Feb. 17, 1921. Serial No. 445,893. Term of patent 3½ years.



The ornamental design for a socket cover, as shown.

60,035. ARM-HUSK FOR LIGHTING-FIXTURES. WALTER R. KAHNS, Brooklyn, N. Y., assignor to J. H. White Manufacturing Company, Brooklyn, N. Y., a Corporation of New York. Filed Feb. 17, 1921. Serial No. 445,894. Term of patent 3½ years.



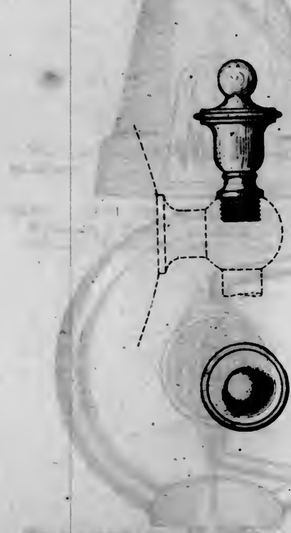
The ornamental design for an arm husk for lighting fixtures, as shown.

60,036. ARM-HUSK FOR LIGHTING-FIXTURES. WALTER R. KAHNS, Brooklyn, N. Y., assignor to J. H. White Manufacturing Company, Brooklyn, N. Y., a Corporation of New York. Filed Feb. 17, 1921. Serial No. 445,895. Term of patent 3½ years.



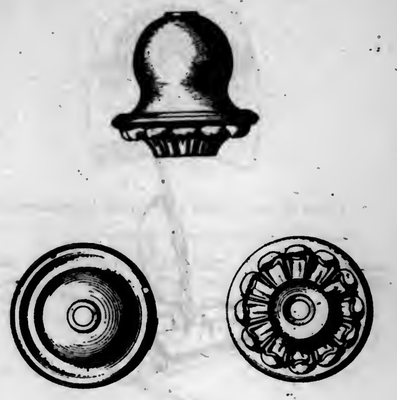
The ornamental design for an arm husk for lighting fixtures, as shown.

60,037. KNOB FOR AN ARM-HUSK FOR LIGHTING FIXTURES. WALTER R. KAHNS, Brooklyn, N. Y., assignor to J. H. White Manufacturing Company, Brooklyn, N. Y., a Corporation of New York. Filed Feb. 17, 1921. Serial No. 445,896. Term of patent 3½ years.



The ornamental design for a knob for an arm husk for lighting fixtures, as shown.

60,038. SOCKET-COVER. WALTER R. KAHNS, Brooklyn, N. Y., assignor to J. H. White Manufacturing Company, Brooklyn, N. Y., a Corporation of New York. Filed Feb. 17, 1921. Serial No. 445,897. Term of patent 3½ years.



The ornamental design for a socket cover, as shown.

60,039. JEWELRY—NAMELY, A CHARM, PIN, CUFF-BUTTON, OR ARTICLE OF SIMILAR NATURE. FRANK T. KASSEL, Kansas City, Kans. Filed Apr. 11, 1921. Serial No. 460,497. Term of patent 3½ years.



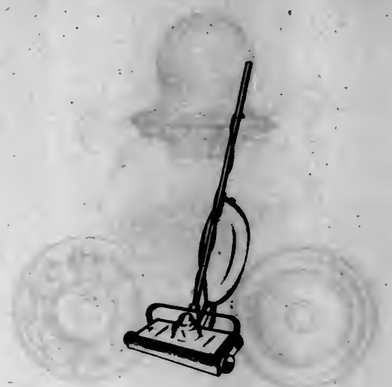
The ornamental design for jewelry, namely, a charm, pin, cuff button, or article of similar nature, as shown.

60,040. JEWELRY—NAMELY, A CHARM, PIN, CUFF-BUTTON, OR ARTICLE OF SIMILAR NATURE. FRANK T. KASSEL, Kansas City, Kans. Filed Apr. 11, 1921. Serial No. 460,498. Term of patent 3½ years.



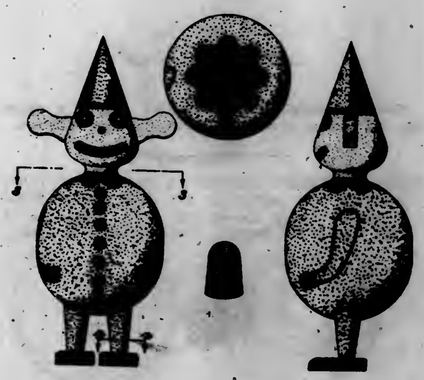
The ornamental design for jewelry, namely, a charm, pin, cuff button, or article of similar nature, as shown.

60,041. TOY VACUUM DEVICE. GEORGE J. KATZ, Detroit, Mich. Filed Jan. 3, 1921. Serial No. 434,813. Term of patent 3½ years.



The ornamental design for a toy vacuum device, as shown.

60,042. NOVELTY FIGURE. HARRY H. KEPLEY, Philadelphia, Pa. Filed Sept. 20, 1921. Serial No. 502,082. Term of patent 7 years.



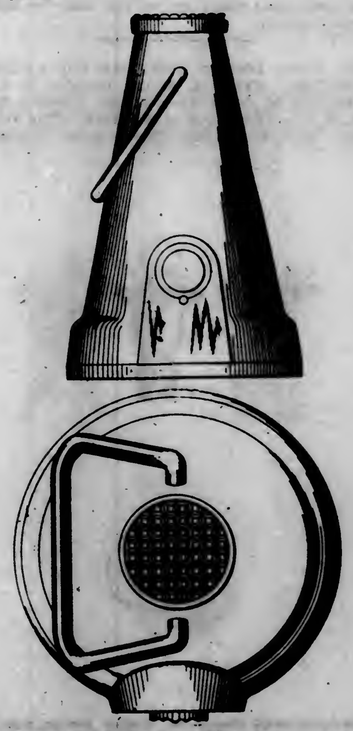
The ornamental design for a novelty figure as shown.

60,043. ARM FOR A LIGHTING-FIXTURE. RUDOLPH KLEINMAN, New York, N. Y., assignor to Bemart Lighting Co., New York, N. Y. Filed Apr. 19, 1921. Serial No. 462,710. Term of patent 3½ years.



The ornamental design for an arm for a lighting fixture as shown.

60,044. LIFTING-JACK. JOHN C. KOTZ, Bellevue borough, Pa., assignor to The Duff Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 1, 1921. Serial No. 448,851. Term of patent 14 years.



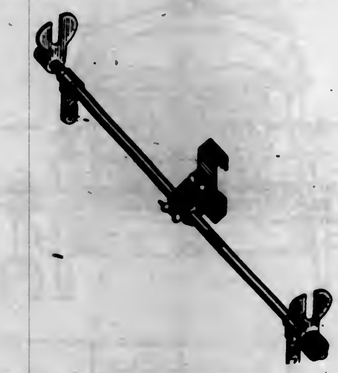
The ornamental design for a lifting jack, as shown.

60,045. PICTURE-FRAME. JOSEF KUBR, Franklin, Pa. Filed June 30, 1921. Serial No. 481,658. Term of patent 3½ years.



The ornamental design for a picture frame, substantially as shown.

60,046. CURTAIN AND SHADE HANGER. SATURNIN LOJEWSKI, Schenectady, N. Y. Filed Feb. 21, 1921. Serial No. 446,959. Term of patent 7 years.



The ornamental design for a curtain and shade hanger as shown.

60,047. RING OR SIMILAR ARTICLE. JOSHUA W. MAYER, New York, N. Y. Filed Aug. 6, 1921. Serial No. 490,418. Term of patent 7 years.



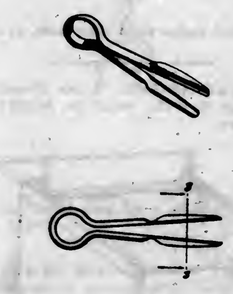
The ornamental design for a ring or similar article, as shown.

60,048. RUBBER HEEL. SAMUEL MESSINA, Jamestown, N. Y. Filed Mar. 31, 1921. Serial No. 457,532. Term of patent 7 years.



The ornamental design for a rubber heel, as shown.

60,049. TOBACCO-PIPE REAMER. GEORGE J. MEYERS, Council Bluffs, Iowa. Filed Feb. 28, 1921. Serial No. 448,613. Term of patent 14 years.



The ornamental design for a smoking pipe reamer as shown.

60,050. DOLL'S HEAD. VERNIE H. MOHLER, Indianapolis, Ind. Filed Sept. 26, 1921. Serial No. 503,400. Term of patent 7 years.



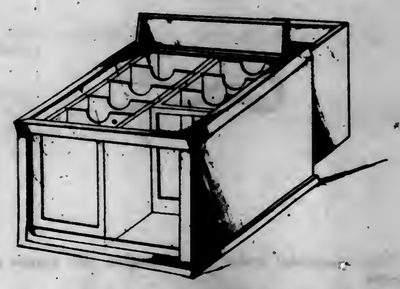
The ornamental design for a doll's head, as shown.

60,051. CHAIR-DESK. Jesse C. Moore, Indianapolis, Ind., assignor to Columbia School Supply Company, Indianapolis, Ind. Filed Apr. 16, 1921. Serial No. 462,039. Term of patent 14 years.



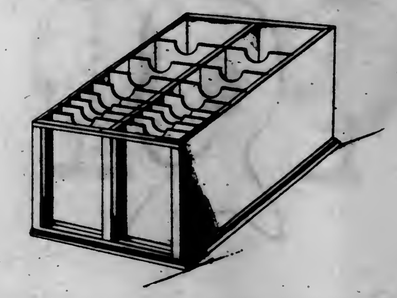
The ornamental design for a chair desk, as shown.

60,052. DISPLAY-CABINET. Harry Morris, Chicago, Ill. Filed Apr. 9, 1921. Serial No. 460,081. Term of patent 7 years.



The ornamental design for a display cabinet, as shown.

60,053. DISPLAY-CABINET. Harry Morris, Chicago, Ill. Filed Apr. 9, 1921. Serial No. 460,082. Term of patent 7 years.



The ornamental design for a display cabinet, as shown.

60,054. ADVERTISING DEVICE. Harry Morris, Chicago, Ill. Filed Apr. 22, 1921. Serial No. 462,637. Term of patent 7 years.



The ornamental design for an advertising device as shown.

60,055. METER-BOX. Thomas E. Murray, Jr., Brooklyn, N. Y. Filed July 17, 1920. Serial No. 397,125. Term of patent 7 years.



The ornamental design for a meter box, as shown.

60,056. DOLL. Herman O. Oesten, Portland, Oreg. Filed Nov. 3, 1920. Serial No. 422,980. Term of patent 3½ years.



The ornamental design for a doll as shown.

60,057. GAS-HEATER. Mortimer L. Packer, Columbus, Ohio. Filed Feb. 7, 1921. Serial No. 443,280. Term of patent 7 years.



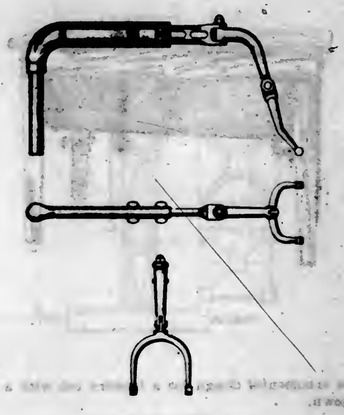
The ornamental design for a gas heater, as shown.

60,058. COIN-PURSE. Frederik Petersen, New York, N. Y. Filed Feb. 26, 1921. Serial No. 448,244. Term of patent 3½ years.



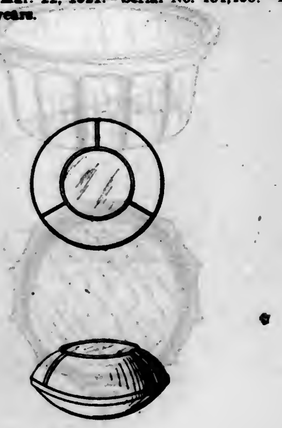
The ornamental design for a coin purse as shown and described.

60,059. STANDARD FOR X-RAY APPARATUS. Oscar H. Pierce and Alexander F. Pierce, Rochester, N. Y. Filed Nov. 18, 1920. Serial No. 426,004. Term of patent 14 years.



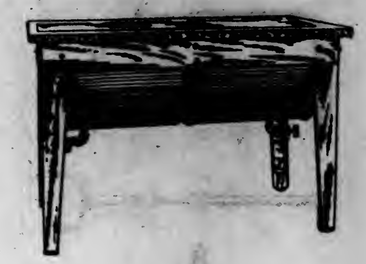
The ornamental design for a standard for X-ray apparatus, as shown.

60,060. CAKE OF SOAP. Stanley Resor, New York, N. Y., assignor, by mesne assignments, to The Andrew Jergens Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 22, 1921. Serial No. 454,495. Term of patent 7 years.



The ornamental design for a cake of soap, as shown.

60,061. LAUNDRY-TUB WITH A COVER. GEORGE F. RENNOR, Mercer, Pa. Filed May 21, 1921. Serial No. 471,506. Term of patent 14 years.



The ornamental design for a laundry tub with a cover, as shown.

60,062. TRANSPARENT GLASS DISH. GEORGE D. SAILER, Jeannette, Pa., assignor to McKee Glass Company, Jeannette, Pa., a Corporation of Pennsylvania. Filed July 8, 1921. Serial No. 483,365. Term of patent 14 years.



The ornamental design for a transparent glass dish as shown and described.

60,063. HEAT-TUBE FOR FIREPLACE-HEATERS. GEORGE B. SEARLS, Steubenville, Ohio. Filed June 4, 1921. Serial No. 475,114. Term of patent 14 years.



The ornamental design for a heat tube for fireplace heaters, as shown.

60,064. ANVIL. JOHAN SHERVER, Mineville, N. Y. Filed Feb. 28, 1921. Serial No. 448,610. Term of patent 14 years.



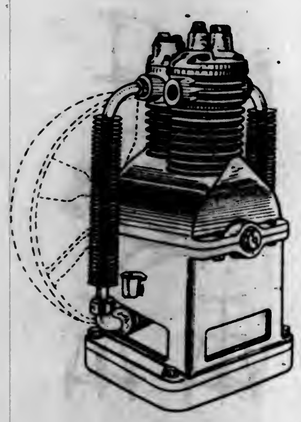
The ornamental design for an anvil, as shown.

60,065. CHILD'S OUTER GARMENT. JACOB SOLOMON, New York, N. Y., assignor to Kiddie Garment Co. Inc., New York, N. Y., a Corporation of New York. Filed Jan. 29, 1921. Serial No. 441,058. Term of patent 3½ years.



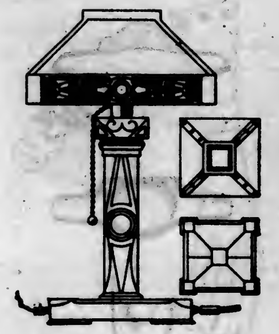
The ornamental design for a child's outer garment, as shown.

60,066. AIR-COMPRESSOR CASING. EDWIN H. STREDMAN, St. Louis, Mo., assignor to Curtis & Co. Mfg. Co., Wellston, Mo., a Corporation of Missouri. Filed Dec. 27, 1920. Serial No. 433,511. Term of patent 14 years.



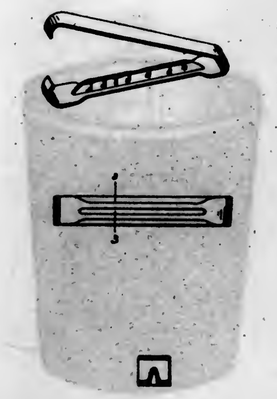
The ornamental design for an air compressor casing, as shown.

60,067. LAMP. WILLIAM L. STEWART, Worcester, Mass. Filed Feb. 28, 1921. Serial No. 448,619. Term of patent 3½ years.



The ornamental design for a lamp, as shown.

60,068. CLASP. JOHN H. STONE, Cranston, R. I. Filed May 7, 1919. Serial No. 295,501. Term of patent 14 years.



The ornamental design for a clasp, as shown.

60,069. HOLDER FOR SMOKING-PIPES. EDWARD P. STONE, Cleveland, Ohio. Filed Jan. 31, 1921. Serial No. 441,436. Term of patent 14 years.



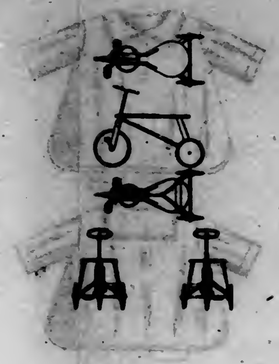
The ornamental design for a holder for smoking pipes, as shown.

60,070. WASTE-BASKET OR SIMILAR ARTICLE. CLAUDE W. SUTTON, Wilmington, Del., assignor to American Vulcanized Fibre Company, Wilmington, Del., a Corporation of Delaware. Filed Feb. 24, 1921. Serial No. 447,621. Term of patent 14 years.



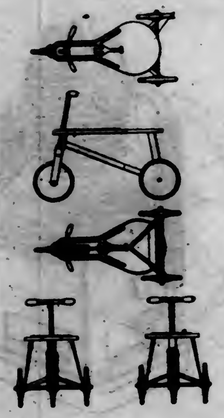
The ornamental design for a waste basket or similar article as shown.

60,071. CHILD'S VELOCIPEDE. JAMES K. TULLY, St. Louis, Mo., assignor to Metallic Industries Inc., St. Louis, Mo., a Corporation of Delaware. Filed Feb. 2, 1921. Serial No. 442,891. Term of patent 14 years.



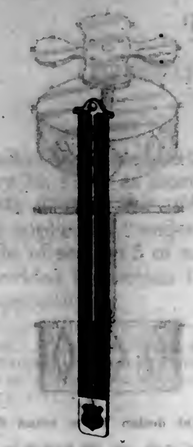
The ornamental design for a child's velocipede as shown.

60,072. PLAY-CAR. JAMES K. TULLY, St. Louis, Mo., assignor to Metallic Industries Inc., St. Louis, Mo., a Corporation of Delaware. Filed Feb. 16, 1921. Serial No. 446,182. Term of patent 14 years.



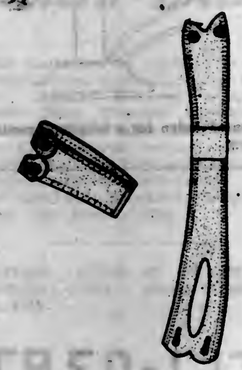
The ornamental design for a play car as shown.

60,073. PRINTER'S GAGE. DAVID TURNER, New York, N. Y. Filed Sept. 10, 1920. Serial No. 410,766. Term of patent 14 years.



The ornamental design for a printer's gage as shown.

60,074. FOOT-BAND. CHARLES TWERDIS, Jefferson City, Mo. Filed Jan. 10, 1921. Serial No. 436,866. Term of patent 14 years.



The ornamental design for a foot band, as shown.

60,075. FOOT-BAND. CHARLES TWERDIS, Jefferson City, Mo. Filed Jan. 10, 1921. Serial No. 436,867. Term of patent 14 years.



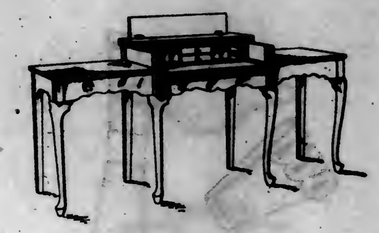
The ornamental design for a foot band, as shown.

60,076. DOLL. FRANÇOIS VATRÉ, New York, N. Y. Filed Aug. 12, 1921. Serial No. 491,658. Term of patent 7 years.



The ornamental design for a doll, as shown and described.

69,077. COMBINATION DESK AND TABLE. Frank Van Dommelen, Grand Rapids, Mich. Filed Mar. 21, 1921. Serial No. 454,305. Term of patent 14 years.



The ornamental design for a combination desk and table, substantially as shown.

60,078. RESPIRATOR FILTER-RING. Frederick Willson, Reading, Pa., assignor to Willson Goggles Inc., Reading, Pa., a Corporation of Pennsylvania. Filed Mar. 8, 1920. Serial No. 450,636. Term of patent 14 years.



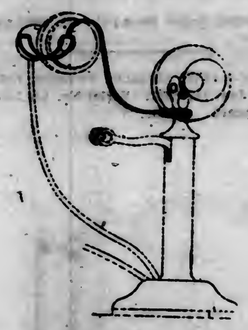
The ornamental design for a respirator filter ring, as shown.

69,079. STAND FOR FLOWERS. Charmion M. Wiseman, Washington, D. C. Filed June 2, 1921. Serial No. 474,979. Term of patent 7 years.



The ornamental design for a stand for flowers, as shown.

60,080. TELEPHONE-RECEIVER ATTACHMENT. Benjamin Wiss, New York, N. Y. Filed May 11, 1921. Serial No. 468,750. Term of patent 7 years.



The ornamental design for a telephone receiver attachment, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, DECEMBER 20, 1921.

(PUBLISHED DECEMBER 22, 1921.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 104,582. (CLASS 15. OILS AND GREASES.) Kon. Ned. Maatschappij tot Exploitatie van Petroleum Bronnen in Ned. Indië, The Hague, Netherlands. Filed June 21, 1917.

AUTOLINE

Particular description of goods.—Gasolene and Kerosene.
Claims use since July 21, 1908.

Ser. No. 111,636. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Western Electric Company, Incorporated, New York, N. Y. Filed June 17, 1918.

Western Electric

Particular description of goods.—Pike-Poles, Cant-Hooks, Soldering-Irons, Soldering-Coppers, Pouring-Ladles for Solder; Linemen's Tools and Materials—Namely, Pole-Climbers, Pliers, Wrenches, Wire-Grips, Bolt and Wire Cutters, Block and Tackle, Linemen's Straps, Shovels, Spades, Digging-Spoons, Tamping and Digging Bars; Wire and Cable Handling Tools and Appliances—Namely, Wire-Stretchers, Crimpers, Cable-Clamps, and "Buffalo" Grips, and Duct-Logs, Come-Along Clamps.
Claims use since January, 1910.

Ser. No. 117,824. (CLASS 39. CLOTHING.) Twin Tubs & Rubber Company, Chicago Heights, Ill. Filed Apr. 24, 1919.

TRED-LITE

Our trade-mark consists of the arbitrary word "Tred-Lite."
Particular description of goods.—Rubber Heels.
Claims use since Sept. 1, 1918.

Ser. No. 120,337. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Fred Biffar, Chicago, Ill. Filed July 8, 1919.

DIXIE GUARD

Particular description of goods.—Pocket-Knives.
Claims use since February, 1917.

Ser. No. 120,338. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Fred Biffar, Chicago, Ill. Filed July 8, 1919.

DIXIE SWITCH

Particular description of goods.—Pocket-Knives.
Claims use since 1917.

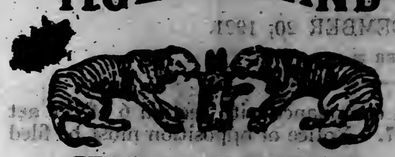
Ser. No. 126,170. (CLASS 12. CONSTRUCTION MATERIALS.) The Cleveland Builders Supply and Brick Company, Cleveland, Ohio. Filed Dec. 17, 1919.

CemenTopping

Particular description of goods.—A Prepared Mixture, of Which the Main Ingredients are Sand, Gravel, and Cement, for Use in the Construction of Sidewalks, Floors, Cellar Bottoms, Driveways, and the Like.
Claims use since about Sept. 13, 1919.

Ser. No. 126,484. (CLASS 39. CLOTHING.) SAMUEL SCILKEN, New York, N. Y. Filed Dec. 26, 1919.

TIGER BRAND



TEST OF STRENGTH

No claim being made to the words "Brand" and "Test of Strength" apart from the mark shown in the drawing.

Particular description of goods.—Gloves of Leather, Rubber, Fabric, Asbestos, and Combination of Said Materials.

Claims use since Oct. 28, 1919.

Ser. No. 126,834. (CLASS 2. RECEPTACLES.) WIRE-BOUNDS CORPORATION, (now by change of name 4-One Box Machine Makers,) Portland, Me., and New York, N. Y. Filed Jan. 5, 1920.

-4-ONE-DETACHTOP

No claim is made to the word "Detachtop" apart from the mark shown in the drawing.

Particular description of goods.—Boxes and Packing-Cases, Said Boxes and Packing-Cases Embodying in Their Construction Wood, Fiber Board, Strawboard, or the Like and Being Adapted for Use as Shipping-Containers.

Claims use since Nov. 7, 1919.

Ser. No. 131,147. (CLASS 15. OILS AND GREASES.) CONSOLIDATED PRODUCERS AND REFINERS CO., Fort Worth, Tex. Filed Apr. 15, 1920.

CONSOLITE

Particular description of goods.—Illuminating-Oil.

Claims use since Mar. 31, 1919.

Serial No. 131,148. (CLASS 15. OILS AND GREASES.) CONSOLIDATED PRODUCERS AND REFINERS CO., Fort Worth, Tex. Filed Apr. 15, 1920.

CONSOLOIL

Particular description of goods.—Heavy, Medium, and Light Lubricating-Oils.

Claims use since Mar. 31, 1919.

Ser. No. 131,741. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) LANGLEY & MICHAELS CO., San Francisco, Calif. Filed Apr. 26, 1920.

Reliance

Particular description of goods.—Fountain-Syrups and Fountain Flavoring Extracts, for Making Non-Alcoholic, Non-Cereal, Maltless Beverages to be Sold as Soft Drinks; and Syrup and Extracts for the Making of Root-Beer.

Claims use since May, 1920.

Ser. No. 131,853. (CLASS 39. CLOTHING.) PHIL BERLINER & CO., New York, N. Y. Filed Apr. 30, 1920.

Berlando

Particular description of goods.—Ladies' Hats.

Claims use since Mar. 4, 1920.

Ser. No. 131,963. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) PITTSBURGH BREWING COMPANY, Pittsburgh, Pa. Filed May 3, 1920.



The drawing is intended to simulate a plaid, the cross lining indicating shading.

Particular description of goods.—Non-Alcoholic Maltless Beverages Sold as Soft Drinks.

Claims use since about Apr. 20, 1920.

Ser. No. 132,022. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PATTERSON & CO., LTD., New Orleans, La. Filed May 4, 1920.

POLARIS

Particular description of goods.—Wheat-Flour.

Claims use since Jan. 6, 1920.

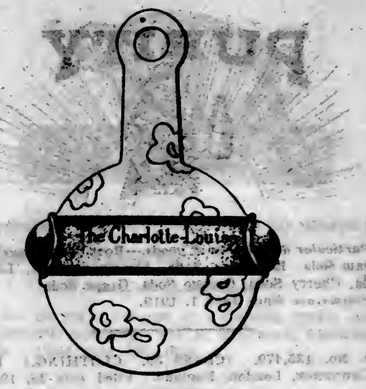
Ser. No. 132,413. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SANTERRA PERFUMERY MANUFACTURERS, INC., New York, N. Y. Filed May 13, 1920.



Particular description of goods.—Powdered Citrate of Magnesia to be Used with Water as a Drink and a Medicated Tonic Beverage, Including Iron, Ammonia, and Cinchona-Bark, Called by the Name Pierre Chine.

Claims use since Jan. 17, 1918.

Ser. No. 132,651. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CHARLOTTE L. GLEESENKER, York, Pa. Filed May 28, 1920.



Particular description of goods.—Dolls.

Claims use since Dec. 5, 1919.

Ser. No. 134,152. (CLASS 17. TOBACCO PRODUCTS.) JOHN W. SURBUG, INC., New York, N. Y. Filed June 24, 1920.

EL CONSUELO

Particular description of goods.—Cigars.

Claims use since 1889.

Ser. No. 134,972. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. JOHNSTON MOORE, Montgomery, Ala. Filed July 14, 1920.

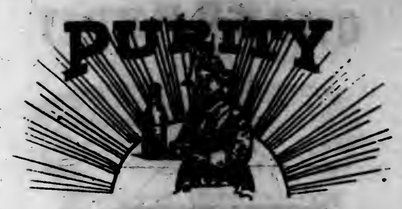


No claim is made to the use of the words "Ointment" and "Montgomery, Ala." apart from the mark shown by the drawing.

Particular description of goods.—An Ointment for the Skin for the Treatment of Eczema, Ringworm, Tetter, Salt-Rheum, All Itching, Scaly, and Pimply Eruptions of the Skin, for Removing Tan, Sunburn, Freckles, and for Bleaching Dark Skin.

Claims use since May 1, 1920.

Ser. No. 134,975. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE PURITY CRYSTAL ROCK MINERAL SPRING WATER CO., Chicago, Ill. Filed July 14, 1920.



Particular description of goods.—Root-Beer, Ginger-Ale, Cream Soda, Raspberry Soda, Strawberry Soda, Lemon-Soda, Cherry Soda, Orange Soda, Grape Soda.
Claims use since June 1, 1918.

Ser. No. 135,479. (CLASS 39. CLOTHING.) R. S. LAWRENCE, London, England. Filed July 28, 1920.



Particular description of goods.—Cut-Leather Soles.
Claims use since November, 1919.

Ser. No. 135,825. (CLASS 17. TOBACCO PRODUCTS.) RICHARD P. SHERTER, Delphos, Ohio. Filed Aug. 5, 1920.



Particular description of goods.—Cigars.
Claims use since June 5, 1920.

Ser. No. 136,020. (CLASS 39. CLOTHING.) BAKER-POSTON-HEMPHILL & Co., Fort Worth, Tex. Filed Aug. 12, 1920.

TEX-WORTH

Particular description of goods.—Flannel Shirts.
Claims use since Jan. 1, 1920.

Ser. No. 136,266. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) HADFIELDS LIMITED, Sheffield, England. Filed Aug. 19, 1920.

GALAHAD

Particular description of goods.—Steam-Valves, Hydraulic and Pneumatic Valves, Metal Buckets, Saucepans, Frying-Pans, Baking Pans and Tins, Kettles for Boiling Water, Strainers, Colanders, Household Ladles; Handles, Knobs, and Pulls for Doors and Drawers, Finger-Plates for Doors, Stair-Rods, Andirons, Ash-Pans, Hooks, Staples, and Chains.
Claims use since Feb. 22, 1918.

Ser. No. 136,300. (CLASS 17. TOBACCO PRODUCTS.) LIGGETT & MYERS TOBACCO COMPANY, New York, N. Y. Filed Aug. 20, 1920.



Particular description of goods.—Smoking and Chewing Tobacco and Cigarettes.
Claims use since January, 1887.

Ser. No. 136,316. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) BARON HENRY SCOTFORD, Atlantic City, N. J. Filed Aug. 20, 1920.



No claim being made to the exclusive use of the words "Portrait Dolls" apart from the other features of the mark shown on the drawing. The portrait forming a part of the trade-mark is that of Peggy Newell, (now Peggy Newell Scotford.)
Particular description of goods.—Dolls.
Claims use since about Mar. 15, 1920.

Ser. No. 136,557. (CLASS 39. CLOTHING.) THE HEMPHILL-PHILLIPSON COMPANY, Milwaukee, Wis. Filed Aug. 27, 1920.



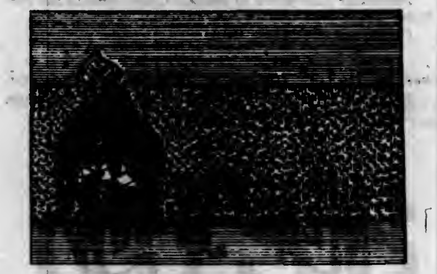
No claim is made to the word "Milwaukee" or to the words "Boston Store" apart from the design shown by the drawing.
Particular description of goods.—Leather Shoes.
Claims use since about July 27, 1920.

Ser. No. 136,731. (CLASS 39. CLOTHING.) TYSON SHIRT COMPANY, Norristown, Pa. Filed Sept. 1, 1920.

Tyson

Said mark "Tyson" as it appears in the drawing on file is the autograph of Charles R. Tyson, first vice president of said corporation applicant.
Particular description of goods.—Night-Shirts, Pajamas, and Knitted and Textile Fabric Underwear for Men, Women, and Children.
Claims use since Dec. 6, 1919.

Ser. No. 137,052. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio. Filed Sept. 10, 1920.



Is colored blue, red, and yellow, as indicated by the lining on the drawing.
Particular description of goods.—Paintbrushes, Scratch-Brushes, and Dusters for Painters' Use.
Claims use since August, 1918.

Ser. No. 137,205. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BOSTON COMPANY, Warren, Ohio. Filed Sept. 18, 1920.



Particular description of goods.—Steel-Bar Handles for Tools.
Claims use since about 1907.

Ser. No. 137,376. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) EVA N. HENNEGAN, Cincinnati, Ohio. Filed Sept. 20, 1920.



Particular description of goods.—Game-Boards in the Nature of Fortune-Telling Wheels.
Claims use since Sept. 1, 1920.

Ser. No. 137,960. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RAY BATTERY COMPANY, Detroit, Mich. Filed Oct. 6, 1920.



No claim is made for the representation of the storage battery, the words "Storage Batteries," "Trade Mark Registered," and "Guaranteed Unconditionally 2 Years."
Particular description of goods.—Storage Batteries.
Claims use since Aug. 10, 1920.

Ser. No. 138,041. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANLEY FORSYTH BARNES, Seattle, Wash. Filed Oct. 7, 1920.



No claim being made to the words "Asthma Sera" apart from the mark shown.

Particular description of goods.—Asthma Sera.

Claims use since June, 1920.

Ser. No. 138,363. (CLASS 20. LINOLEUM AND OILED CLOTH.) TEXOLEUM COMPANY OF N. Y. INC., New York, N. Y. Filed Oct. 15, 1920.

THE LONE STAR

Particular description of goods.—Oil-Cloth, Linoleum, and Felt-Base Coverings of the Nature of Linoleum and Oiled Cloth Consisting of Stair and Passage Cloths, Mats, and Rugs.

Claims use since Apr. 1, 1920.

Ser. No. 138,647. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MECCANO LIMITED, Liverpool, England. Filed Oct. 21, 1920.

MECCANO

Particular description of goods.—Electrical Constructional Toys.

Claims use since November, 1915.

Ser. No. 139,043. (CLASS 17. TOBACCO PRODUCTS.) MAX MOSKOWITZ, New York, N. Y. Filed Nov. 1, 1920.

PASTMASTER

Applicant disclaims the use of his mark for long-cut tobacco for both smoking and chewing or for any tobacco products other than cigars.

Particular description of goods.—Cigars.

Claims use since Oct. 25, 1920.

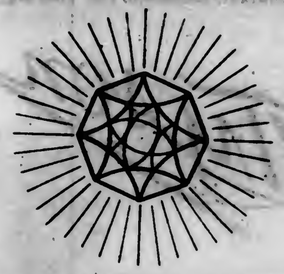
Ser. No. 139,101. (CLASS 17. TOBACCO PRODUCTS.) "TURMAC" TURKISH MACEDONIAN TOBACCO COMPANY, Arnhem, Netherlands. Filed Nov. 2, 1920.

TURMAC

Particular description of goods.—Cigarettes, Cigars, Chewing, Smoking, and Leaf Tobacco.

Claims use since Apr. 29, 1920.

Ser. No. 139,621. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) HISAJI MOSHUCHI, Osaka, Japan. Filed Nov. 13, 1920.



Particular description of goods.—Glass Armlets for Personal Adornment.

Claims use since June, 1916.

Ser. No. 139,622. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) HISAJI MOSHUCHI, Osaka, Japan. Filed Nov. 13, 1920.

DIAMOND

Particular description of goods.—Glass Armlets for Personal Adornment.

Claims use since June, 1916.

Ser. No. 139,742. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FORD FLOUR COMPANY, Nashville, Tenn. Filed Nov. 17, 1920.

MERRY WIDOW

Particular description of goods.—Self-Rising Flour.

Claims use since 1905.

Ser. No. 140,225. (CLASS 39. CLOTHING.) VANITY FAIR SILK MILLS, Reading, Pa. Filed Nov. 26, 1920.

Sports

Particular description of goods.—Bloomers.

Claims use since Aug. 30, 1920.

Ser. No. 140,607. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) METALLIC INDUSTRIES, INC., St. Louis, Mo. Filed Dec. 4, 1920.



Particular description of goods.—Playthings Constructed Principally of Metal—to wit, Toy Swings, Teeters, Go-carts, Wagons, and Velocipedes.

Claims use since Oct. 29, 1920.

Ser. No. 140,762. (CLASS 17. TOBACCO PRODUCTS.) G. W. VAN SLYKE & HORTON, Albany, N. Y. Filed Dec. 7, 1920.

PETER SCHUYLER Odd Moments

Particular description of goods.—Cigars.

Claims use since Nov. 8, 1920.

Ser. No. 141,029. (CLASS 15. OILS AND GREASES.) SINCLAIR REFINING COMPANY, Chicago, Ill. Filed Dec. 13, 1920.

COSS

Particular description of goods.—Lubricating-Oil.

Claims use since Jan. 28, 1917.

Ser. No. 141,249. (CLASS 17. TOBACCO PRODUCTS.) THE BLOCK BROS. TOBACCO CO., Wheeling, W. Va. Filed Dec. 18, 1920.

ARROW

Particular description of goods.—Cigarettes.

Claims use since Dec. 14, 1920.

Ser. No. 141,345. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) AMERICAN PAINT & PUTTY CO., INC., Boston, Mass. Filed Dec. 21, 1920.

Joseph's AMERICAN DOUGHBOY PAINT



No claim is made to the exclusive use of the word "Paint" apart from the mark shown in the drawing.

Particular description of goods.—Ready-Mixed and Paste Paint.

Claims use since Sept. 3, 1920.

Ser. No. 141,551. (CLASS 17. TOBACCO PRODUCTS.) COAST SPECIALTY CO. INC., Bellingham, Wash. Filed Dec. 28, 1920.

PACIFIC HIGHWAY

Particular description of goods.—Cigars.

Claims use since May 1, 1920.

Ser. No. 141,665. (CLASS 17. TOBACCO PRODUCTS.) THE BLOCK BROS. TOBACCO CO., Wheeling, W. Va. Filed Dec. 30, 1920.

MAIL POUCH

Particular description of goods.—Cigarettes.

Claims use since Dec. 21, 1920.

Ser. No. 141,909. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDGAR TUCKER KELLER, Indianapolis, Ind. Filed Jan. 6, 1921.



Particular description of goods.—Liniment for Rheumatism, Cuts, Burns, Sore and Tired Feet.
Claims use since Dec. 1, 1919.

Ser. No. 141,914. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) W. MOORCROFT LIMITED, Burslem, England. Filed Jan. 6, 1921.



Consisting in the facsimile signature of W. Moorcroft, one of the directors of the company.
Particular description of goods—Hand-Made Pottery.
Claims use since 1899.

Ser. No. 141,939. (CLASS 39. CLOTHING.) BROWN DURRELL CO., Boston, Mass. Filed Jan. 7, 1921.

Country Club

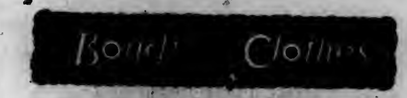
Particular description of goods.—Dress, Work, and Flannel Shirts, Night-Shirts, Bath-Robes; Canvas, Wool, Cotton Fabric, and Leather Gloves; Wool and Leather Mittens, Pajamas, Belts for Personal Use, Suspenders, and Cravats.
Claims use since approximately Mar. 1, 1909.

Ser. No. 142,194. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ATLANTA BARBERS' SUPPLY CO., Atlanta, Ga. Filed Jan. 13, 1921.

ABESCO

Particular description of goods.—Perfumery, Toilet Water, Face-Powder, Face-Cream, Talcum Powder, Shampoos, and Hair-Tonics.
Claims use since September, 1916.

Ser. No. 142,314. (CLASS 39. CLOTHING.) JOHN BOND TAILORING CO., Denver, Colo. Filed Jan. 17, 1921.



No claim being made to the words "Bond Clothes" and "Tailors to the Masses" apart from the mark shown in the drawing.
Particular description of goods.—Clothing—Namely, Coats, Trousers, Vests, and Overcoats.
Claims use since Dec. 15, 1920.

Ser. No. 142,464. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) ATLANTIC SOUTHWESTERN BROOM CO., Baltimore, Md. Filed Jan. 20, 1921.

GOLDEN GATE

Particular description of goods.—Brooms.
Claims use since Oct. 12, 1920.

Ser. No. 142,466. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) ATLANTIC SOUTHWESTERN BROOM CO., Baltimore, Md. Filed Jan. 20, 1921.

MASTERPIECE

Particular description of goods.—Brooms.
Claims use since July 29, 1920.

Ser. No. 142,585. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PETER BOLLER MACHINE WORKS, Chicago, Ill. Filed Jan. 22, 1921.



No exclusive claim is made to the words "The Mop Saving Wringer" apart from the mark shown in the drawing.
Particular description of goods.—Mop-Wringers.
Claims use since July 15, 1920.

Ser. No. 142,800. (CLASS 2. RECEPTACLES.) MCPHERSON & FOSTER CO., Evansville, Ind. Filed Jan. 26, 1921.

World Travelers

Particular description of goods.—Assembled Wooden Boxes of All Kinds.
Claims use since Dec. 1, 1920.

Ser. No. 142,927. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) ENG-SKELL COMPANY, INC., San Francisco, Calif. Filed Jan. 29, 1921.

ENG-SKELL CO.

Particular description of goods.—Non-Alcoholic, Malt-less Beverages Sold as Soft Drinks and Syrups for Flavoring the Same.
Claims use since 1905.

Ser. No. 143,135. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) LEONARD MYERS, Gloversville, N. Y. Filed Feb. 3, 1921.



No claim being made to the exclusive use of the words "The Mark of Merit" apart from the mark as shown on the drawing.
Particular description of goods.—Automobile-Polishing Mitts, Stove-Polishing Mitts, Folding Shoe-Polishers, and Powder-Puffs.
Claims use since Oct. 5, 1920.

Ser. No. 143,246. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ART CRAFT FIXTURE CO., Newark, N. J. Filed Feb. 7, 1921.



Particular description of goods.—Electric-Lighting Fixtures.
Claims use since July 1, 1917.

Ser. No. 143,303. (CLASS 17. TOBACCO PRODUCTS.) UNIVERSAL LEAF TOBACCO CO., INC., New York, N. Y. Filed Feb. 7, 1921.

"BIG CHIEF"



Particular description of goods.—Leaf-Tobacco.
Claims use since Sept. 20, 1920.

Ser. No. 143,310. (CLASS 2. RECEPTACLES.) AMERICAN CHEMICAL PAINT COMPANY, Philadelphia, Pa. Filed Feb. 8, 1921.

LASTIK

Particular description of goods.—Barrels with Sheet-Rubber Linings.
Claims use since Oct. 5, 1920.

Ser. No. 143,826. (CLASS 17. TOBACCO PRODUCTS.) The Sosso Tobacco Co., Inc., New York, N. Y. Filed Feb. 12, 1921.



Particular description of goods.—Smoking-Tobacco.
Claims use since January, 1921.

Ser. No. 144,061. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Frank J. Austin, Philadelphia, Pa. Filed Feb. 26, 1921.

EUKAPYORIN

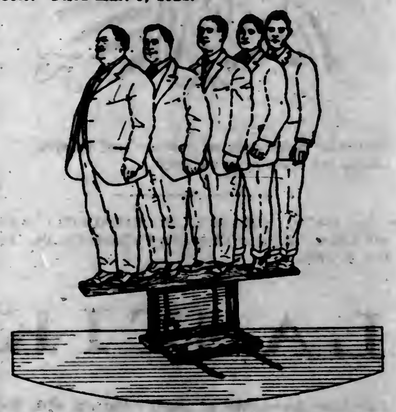
Particular description of goods.—Tooth-Paste, Astringent Lotions, and Washes for the Teeth and Mouth.
Claims use since January, 1914.

Ser. No. 144,259. (CLASS 17. TOBACCO PRODUCTS.) R. G. Sullivan Estate, Manchester, N. H. Filed Mar. 2, 1921.

In Every Case

The words "In Every Case."
Particular description of goods.—Cigars.
Claims use since June 19, 1920.

Ser. No. 144,547. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) The Shwayder Trunk Manufacturing Company, Denver, Colo. Filed Mar. 9, 1921.



The pictures shown in the drawing are, from left to right, the portraits of Isaac Shwayder, (deceased,) Solo mon Shwayder, Samuel Shwayder, Maurice H. Shwayder, and Benjamin Shwayder, all of Denver, Colo. No claim is made to the exclusive use of the representation of a suitcase apart from the mark shown in the drawing.
Particular description of goods.—Trunks and Suitcases.
Claims use since 1914.

Ser. No. 144,982. (CLASS 27. HOROLOGICAL INSTRUMENTS.) Gebrüder Junghans A. G., Schramberg, Germany. Filed Mar. 17, 1921.



Particular description of goods.—Clocks, Watches, and Parts Thereof.
Claims use since about Jan. 2, 1920.

Ser. No. 145,117. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) National Aniline & Chemical Company, Inc., New York, N. Y. Filed Mar. 23, 1921.

NACCO

The word "Nacco."
Particular description of goods.—Coal-Tar Dyestuffs.
Claims use since Sept. 1, 1906.

Ser. No. 145,160. (CLASS 17. TOBACCO PRODUCTS.) B. Midulla, New York, N. Y. Filed Mar. 24, 1921.



No claim being made to the exclusive use of the words "Habana" or "Cuba" apart from the mark as shown, the picture of the woman being a fanciful one.
Particular description of goods.—Cigars.
Claims use since Aug. 1, 1920.

Ser. No. 145,477. (CLASS 39. CLOTHING.) Rauh Bros. & Co., Pittsburgh, Pa. Filed Mar. 30, 1921.



Particular description of goods.—Men's Dress, Negligée, and Work Shirts.
Claims use since Nov. 10, 1920.

Ser. No. 145,478. (CLASS 39. CLOTHING.) Rauh Bros. & Co., Pittsburgh, Pa. Filed Mar. 30, 1921.



Particular description of goods.—Men's and Children's Underwear, Both of Knitted and Textile Fabric; Men's Neckwear, Comprising Collars, Scarfs, and Neckties: Leather and Fabric Gloves, Fabric and Rubber Belts for Supporting Outer Garments, Suspenders, and Hosiery.
Claims use since Nov. 10, 1910.

Ser. No. 145,490. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) The Aeto Co., Orange, N. J. Filed Mar. 31, 1921.

CROWN

Particular description of goods.—Talking-Machine Records and Music-Rolls for Automatically-Played Musical Instruments.
Claims use since January, 1921.

Ser. No. 145,523. (CLASS 39. CLOTHING.) Morris Levy & Brothers, New York, N. Y. Filed Mar. 31, 1921.

TWO SEAL

Particular description of goods.—Fur Coats.
Claims use since Mar. 1, 1918.

Ser. No. 145,582. (CLASS 47. WINES.) Leon Olry Rousseau, Reims, France. Filed Mar. 31, 1921. Under ten-year proviso.



Particular description of goods.—Champagne-Wine.
Claims use since about 1861.

Ser. No. 145,651. (CLASS 27. HOROLOGICAL INSTRUMENTS.) Adolphe Schwob, Inc., New York, N. Y. Filed Apr. 2, 1921.

TAVAN

Particular description of goods.—Watches and Watch Movements, Dials, and Cases.
Claims use since Mar. 21, 1921.

Ser. No. 145,689. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) The Humphryes Manufacturing Company, Mansfield, Ohio. Filed Apr. 4, 1921.

HUMPHRYES
Silent Pumper

No claim being made to the words "Silent Pumper" apart from the mark as shown in the drawing.
Particular description of goods.—Electric Water-Supply Pumps.
Claims use since Dec. 1, 1920.

Ser. No. 145,711. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) S. Pfeiffer Mfg. Co., St. Louis, Mo. Filed Apr. 4, 1921.

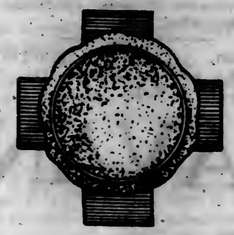


Particular description of goods.—Medicinal and Pharmaceutical Preparations—Namely, Liver-Pills; Prepara-

tions for the Relief of Indigestion and Constipation and other Affections and Disorders of the Stomach, Bowels, Liver, and Kidneys; Liniments for the Treatment of Cuts, Wounds, Sores, Coughs, Aches, and Affections of the Skin and Bones; Preparations for the Relief of Coughs, Colds, Bronchitis, and other Affections and Disorders of the Mouth, Tonsils, Throat, and Lungs; Castor-Oil; Preparations for Corns, Callouses, and Warts; Insecticides and Germicides, Preparations for the Relief of Earache, and Toothache Drops and Gum.

Claims use since Mar. 1, 1921.

Ser. No. 145,776. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ENOS CHEMICAL COMPANY, Chicago, Ill. Filed Apr. 6, 1921.



Consisting of a Greek cross and seal impression thereon. The shade lines and stipplings are not intended to represent any specific colors. The cross is not printed in red nor in white on a red background.

Particular description of goods.—Insecticides, Rodent-Poisons, and Insect Preventives.

Claims use since January, 1920.

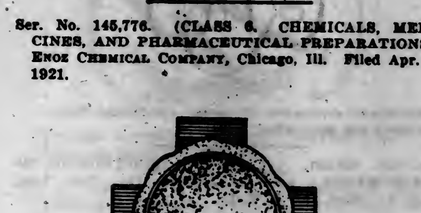
Ser. No. 145,787. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) KEYSTONE MFG. CO., Boston, Mass. Filed Apr. 6, 1921.

MOVIEGRAPH

Particular description of goods.—Toy Motion-Picture Machine of the Projecting Type.

Claims use since May 9, 1919.

Ser. No. 146,069. (CLASS 39. CLOTHING.) P. H. DAVIS TAILORING COMPANY, Cincinnati, Ohio. Filed Apr. 12, 1921.



Is lined to show black, no claim being made to the words "Made-to-Measure Clothes" nor to the pictorial representation within the frame, except in the form and association shown in the drawing.

Particular description of goods.—Men's and Young Men's Clothing, Consisting of Overcoats, Raincoats, Coats, Vests, and Trousers of Every Description.

Claims use since Dec. 20, 1918.

Ser. No. 146,100. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) H. C. WHITE COMPANY, North Bennington, Vt. Filed Apr. 12, 1921.

KIDDIE KART

Particular description of goods.—Four-Wheeled Play-Wagons.

Claims use since Jan. 22, 1921.

Ser. No. 146,102. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) H. C. WHITE COMPANY, North Bennington, Vt. Filed Apr. 12, 1921.

Kiddie Kar Special

Particular description of goods.—Three-Wheeled Coasters for Children.

Claims use since Nov. 15, 1920.

Ser. No. 146,103. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) H. C. WHITE COMPANY, North Bennington, Vt. Filed Apr. 12, 1921.

KIDDIE

Particular description of goods.—Three and Four Wheeled Coasters and Play-Wagons for Children.

Claims use since Aug. 1, 1915.

Ser. No. 146,205. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) ARTHUR DARE, Philadelphia, Pa. Filed Apr. 15, 1921.

The Dare

Particular description of goods.—Hemoglobinometers and Hemoalkalometers.

Claims use since Dec. 1, 1900.

Ser. No. 146,244. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AKTIEBOLAGET GEBR. ARBENS MEKANISKA VERKSTAD, Stockholm, Sweden. Filed Apr. 16, 1921.

ARENCO

Consisting of the word "Arenco."

Particular description of goods.—Packing-Machines for Pulverous Matter for Tobacco and the Like and Cigarettes, Envelop and Bag Machines and All Kinds of Lithographical Machines, All Kinds of Match-Machines, and All Kinds of Box-Machines.

Claims use since Sept. 1, 1920.

Ser. No. 146,640. (CLASS 27. HOROLOGICAL INSTRUMENTS.) LES FILS DE RUBIN-MAIRE, Saint-Imier, Switzerland. Filed Apr. 23, 1921.



Particular description of goods.—Watch-Springs.

Claims use since on or before Mar. 3, 1909.

Ser. No. 146,922. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEDERLANDSCHE COÖPERATIEVE ZUIVELVERKOOPCENTRALE, Amsterdam, Netherlands. Filed Apr. 28, 1921.



Particular description of goods.—Butter.

Claims use since May 1, 1920.

Ser. No. 147,054. (CLASS 38. PRINTS AND PUBLICATIONS.) THE TRIBUNE COMPANY, Chicago, Ill. Filed Apr. 30, 1921.



The words "Blue Ribbon Fiction." No claim is made to the word "Fiction."

Particular description of goods.—A Newspaper-Section.

Claims use since Dec. 21, 1919.

Ser. No. 147,096. (CLASS 39. CLOTHING.) DORROS BROS. INCORPORATED, New York, N. Y. Filed May 2, 1921.



The lining on the drawing of the trade-mark is for shading only.

Particular description of goods.—Infants' Wear—Namely, Dresses, Coats, Sweaters, Wrappers, Stockings, Shoes, Petticoats, Caps, Hats, Bibs, Booties.

Claims use since December, 1918.

Ser. No. 147,103. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) ALADAR FONYO, Chicago, Ill. Filed May 2, 1921.



Particular description of goods.—A Maltless Powder for Making a Non-Alcoholic Beverage.

Claims use since Apr. 1, 1921.

Ser. No. 147,106. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GREEN AND GREEN COMPANY, Dayton, Ohio. Filed May 2, 1921.

POLO
WHEAT-NUTS

No claim being made to the words "Wheat Nuts" apart from the other features of the mark.

Particular description of goods.—Chocolate-Coated Crackers.

Claims use since Feb. 14, 1921.

Ser. No. 146,640. (CLASS 27. HOROLOGICAL INSTRUMENTS.) LES FILS DE RUBIN-MAIER, Saint-Imier, Switzerland. Filed Apr. 23, 1921.



Particular description of goods.—Watch-Springs.
Claims use since on or before Mar. 3, 1909.

Ser. No. 146,922. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEDERLANDSCHE COÖPERATIEVE ZUIVELVERKOOPCENTRALE, Amsterdam, Netherlands. Filed Apr. 28, 1921.



Particular description of goods.—Butter.
Claims use since May 1, 1920.

Ser. No. 147,054. (CLASS 38. PRINTS AND PUBLICATIONS.) THE TRIBUNE COMPANY, Chicago, Ill. Filed Apr. 30, 1921.



The words "Blue Ribbon Fiction." No claim is made to the word "Fiction."
Particular description of goods.—A Newspaper-Section.
Claims use since Dec. 21, 1919.

Ser. No. 147,096. (CLASS 39. CLOTHING.) DONROS BROS. INCORPORATED, New York, N. Y. Filed May 2, 1921.



The lining on the drawing of the trade-mark is for shading only.
Particular description of goods.—Infants' Wear—Namely, Dresses, Coats, Sweaters, Wrappers, Stockings, Shoes, Petticoats, Caps, Hats, Bibs, Booties.
Claims use since December, 1918.

Ser. No. 147,103. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) ALADAR FONTO, Chicago, Ill. Filed May 2, 1921.



Particular description of goods.—A Maltless Powder for Making a Non-Alcoholic Beverage.
Claims use since Apr. 1, 1921.

Ser. No. 147,106. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GREEN AND GREEN COMPANY, Dayton, Ohio. Filed May 2, 1921.



No claim being made to the words "Wheat Nuts" apart from the other features of the mark.
Particular description of goods.—Chocolate-Coated Crackers.
Claims use since Feb. 14, 1921.

Ser. No. 147,686. (CLASS 39. CLOTHING.) SIEGEL BROTHERS, Chicago, Ill. Filed May 13, 1921.



Particular description of goods.—Hats and Caps for Men, Boys, and Children.
Claims use since July 1, 1919.

Ser. No. 147,716. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) EDWARD ERICSON, St. Paul, Minn. Filed May 14, 1921.



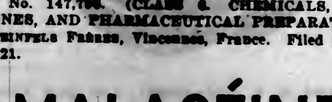
Particular description of goods.—A Cleaning Dressing Liquid Polish for Automobiles, Furniture, Varnished or Enameled Fixtures and Appliances for Household, Store, and Office.
Claims use since May 3, 1921.

Ser. No. 147,759. (CLASS 39. CLOTHING.) ABBOTT SHOE COMPANY, North Reading, Mass. Filed May 16, 1921.



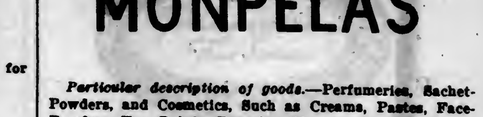
Particular description of goods.—Boots, Shoes, and Slippers Made of Leather, Rubber, Fabric, and Leather and Rubber, Leather and Fabric, and Rubber and Fabric.
Claims use since Mar. 29, 1921.

Ser. No. 147,786. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STEINFELS FRÈRES, Vincennes, France. Filed May 16, 1921.



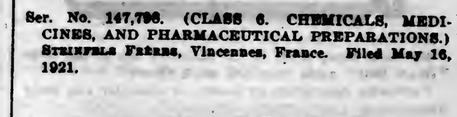
Particular description of goods.—Perfumeries, Sachet-Powders, and Cosmetics, Such as Creams, Pastes, Face-Powder, Face-Paints, Pomade, Liquid and Crystallised Non-Alcoholic Brilliantines, and Toilet Milks or Washes.
Claims use since Aug. 29, 1902.

Ser. No. 147,797. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STEINFELS FRÈRES, Vincennes, France. Filed May 16, 1921.



Particular description of goods.—Perfumeries, Sachet-Powders, and Cosmetics, Such as Creams, Pastes, Face-Powder, Face-Paint, Pomade, Liquid and Crystallized Non-Alcoholic Brilliantines, and Toilet Milks or Washes.
Claims use since Dec. 19, 1902.

Ser. No. 147,798. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STEINFELS FRÈRES, Vincennes, France. Filed May 16, 1921.



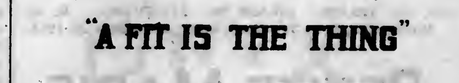
Particular description of goods.—Perfumeries, Sachet-Powders, Cosmetics, Such as Creams, Pastes, Face-Powder, Face-Paint, Pomade, Liquid and Crystallized Non-Alcoholic Brilliantines, and Toilet Milks or Washes.
Claims use since May 15, 1918.

Ser. No. 147,799. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STEINFELS FRÈRES, Vincennes, France. Filed May 16, 1921.



Particular description of goods.—Perfumeries, Sachet-Powders, and Cosmetics, Such as Creams, Pastes, Face-Powder, Face-Paint, Pomade, Liquid and Crystallised Non-Alcoholic Brilliantines, and Toilet Milks or Washes.
Claims use since Jan. 24, 1905.

Ser. No. 147,950. (CLASS 39. CLOTHING.) EFIRD L. HINE, Winston-Salem, N. C. Filed May 20, 1921.



Particular description of goods.—Boots, Shoes, Overshoes, Slippers, and Sandals Made of Leather, Rubber, Fabric, and Combinations of Them, and Hosiery.
Claims use since 1912.

Ser. No. 148,067. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) WILLOUGHBY D. HARDY, New York, N. Y. Filed May 23, 1921.

Liberty Brace-Belt

No claim being made to the exclusive use of the term "Brace Belt" aside from the mark shown.

Particular description of goods.—A Shoulder and Body Brace.

Claims use since Feb. 4, 1919.

Ser. No. 148,180. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE THOMSON-DIGGS COMPANY, Sacramento, Calif. Filed May 24, 1921.

20th CENTURY

Particular description of goods.—Street-Brooms, House-Brooms, Floor-Brushes, Glass-Brushes Used for Cleaning Such Articles as Glass Tumblers and Milk-Bottles, Garage-Brushes Used for Sweeping Garage-Floors, Stove-Brushes, Scrub-Brushes, Window-Brushes, Whitewash-Brushes, Horse-Brushes, Stable-Brooms, Whisk-Brooms, Counter-Brushes, Bottle-Brushes, Sanitary Bowl-Brushes, Creamery-Brushes, Shoe-Brushes, Car-Brushes Designed for Cleaning Car-Windows, Sash-Brushes, and Feather Dusters.

Claims use since Jan. 1, 1918.

Ser. No. 148,288. (CLASS 39. CLOTHING.) R. H. MACY & CO., INC., New York, N. Y. Filed May 26, 1921.

NANCY ANN

Particular description of goods.—Aprons.

Claims use since May 21, 1921.

Ser. No. 148,289. (CLASS 39. CLOTHING.) R. H. MACY & CO., INC., New York, N. Y. Filed May 26, 1921.

PETITE MARIE

Particular description of goods.—Aprons.

Claims use since Mar. 26, 1921.

Ser. No. 148,313. (CLASS 39. CLOTHING.) WEYMAN BROTHERS, Los Angeles, Calif. Filed May 26, 1921.

Weyman Sports Hats

No claim being made for the words "Sports Hats" apart from the mark as shown.

Particular description of goods.—Hats for Ladies.

Claims use since Apr. 2, 1920.

Ser. No. 148,328. (CLASS 39. CLOTHING.) HART BROS., New York, N. Y. Filed May 27, 1921.

H B

Particular description of goods.—Hosiery.

Claims use since Oct. 15, 1920.

Ser. No. 148,390. (CLASS 39. CLOTHING.) "PEGGY WARE" CHILDREN'S DRESS CO. INC., New York, N. Y. Filed May 28, 1921.



The head of a child—namely, Lois June Chasins, daughter of Dr. Charles S. and Ruth L. Chasins, of No. 153 Avenue B, in the city, county, and State of New York—in a circle, with the name "Peggy Ware" and the word "Guaranteed" around said circle, which is again inclosed in a circle, and the entire design being placed in a seal formation. No claim is made to the word "Guaranteed" apart from the mark shown on the drawing.

Particular description of goods.—Children's Dresses.

Claims use since Jan. 1, 1920.

Ser. No. 148,407. (CLASS 39. CLOTHING.) WHITEHEAD HOSIERY MILLS, INC., Burlington, N. C. Filed May 28, 1921.

SEVEN POINT HOSE

No claim being made to the word "Hose" apart from the mark shown.

Particular description of goods.—Hosiery.

Claims use since January, 1915.

Ser. No. 148,436. (CLASS 39. CLOTHING.) SAMUEL D. FRIEDMAN, Los Angeles, Calif. Filed May 31, 1921.



Particular description of goods.—Aprons, Ladies' Dresses, Children's Dresses, Bath-Robes, Capes, Waists, Ladies' Textile Underwear, Ladies' Skirts.

Claims use since May 17, 1921.

Ser. No. 148,567. (CLASS 39. CLOTHING.) VAN RAALTE COMPANY, INC., New York, N. Y. Filed June 2, 1921.

Van Raalte

Particular description of goods.—Fabric for Gloves and Hosiery and Women's Underwear of Knitted and Textile Fabrics.

Claims use since Jan. 2, 1918.

Ser. No. 148,604. (CLASS 39. CLOTHING.) KEITH BROTHERS & CO., Chicago, Ill. Filed June 3, 1921. Under ten-year proviso.

KEITH

Particular description of goods.—Men's Hats, Caps, Gloves, and Mittens of Leather, Fabric, and Wool.

Claims use since 1857.

Ser. No. 148,626. (CLASS 39. CLOTHING.) D. E. SICHER & COMPANY, New York, N. Y. Filed June 3, 1921.



Applicant disclaims any exclusive right to the word "Crepes" apart from the mark shown in the drawing.

Particular description of goods.—Women's Undergarments, Nightgowns, Envelop-Chemise, Bloomers, Union-Suits, Pajamas, Combinations, Underskirts, Chemise and Corset Covers.

Claims use since May 24, 1921.

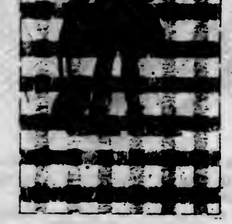
Ser. No. 148,640. (CLASS 39. CLOTHING.) AMERICAN LADY CORSET CO., Detroit, Mich. Filed June 4, 1921.

RUBBOLASTIC

Particular description of goods.—Corsets, Brassières, Corset-Waists, Corset-Covers, Hose-Supporters, Bandeaux, Women's and Misses' Dresses and Waists.

Claims use since Feb. 1, 1921.

Ser. No. 148,665. (CLASS 39. CLOTHING.) MEYERS & COHEN, New York, N. Y. Filed June 4, 1921.



Particular description of goods.—Children's and Misses' Dresses.

Claims use since May 1, 1921.

Ser. No. 148,679. (CLASS 39. CLOTHING.) UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Filed June 4, 1921.

ONYX

Particular description of goods.—Boots and Shoes Made of Rubber and Fabric.

Claims use since Apr. 27, 1921.

Ser. No. 148,690. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ATLANTIC REFINING COMPANY, Philadelphia, Pa. Filed June 6, 1921.



The crossed arrows and the outer irregular border are in red.

Particular description of goods.—Medicinal Oils Derived from Petroleum, Petrolatums, Glycerinum Petrae, and Wool Oils.

Claims use since May 24, 1917.

Ser. No. 148,722. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE ESTERBROOK BRASS AND PLATING COMPANY, Cincinnati, Ohio. Filed June 6, 1921.



No claim is made for the words "Automatic" and "Timer" other than in combination with the other portions of the mark as shown.

Particular description of goods.—Engine Ignition-Timers.

Claims use since December, 1920.

Ser. No. 148,720. (CLASS 28. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ROY F. GERRELLS, Fort Worth, Tex. Filed June 6, 1921.

LITTLE GUSHER

Particular description of goods.—Liquid-Ejectors.

Claims use since Mar. 1, 1921.

Ser. No. 148,770. (CLASS 39. CLOTHING.) UNITED ROYALTIES CORP., New York, N. Y. Filed June 6, 1921.

MERRIE

Particular description of goods.—Petticoats.

Claims use since January, 1919.

Ser. No. 148,818. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MORRIS REGELSON, New York, N. Y. Filed June 7, 1921.

"MERDER"

Particular description of goods.—Insecticides and Destroyer for All Varieties of Insects.

Claims use since Nov. 12, 1910.

Ser. No. 148,848. (CLASS 39. CLOTHING.) PORTLAND OVERALL MANUFACTURING COMPANY, Portland, Me. Filed June 8, 1921.



Applicant disclaims the following words: "Brand," "Trade Mark," "Rip or Tear a New Pair" and "Portland, Me." apart from the mark shown in the drawing.

Particular description of goods.—Overalls.

Claims use since April, 1921.

Ser. No. 148,867. (CLASS 39. CLOTHING.) LOUIS BORGNICH, New York, N. Y. Filed June 9, 1921.

Ming toi

Particular description of goods.—Children's and Misses' Dresses.

Claims use since about June 1, 1920.

Ser. No. 148,890. (CLASS 39. CLOTHING.) OLIVER BROS., Philadelphia, Pa. Filed June 9, 1921.

"HOTSPUR"

Particular description of goods.—Athletic Shoes—Namely, Baseball-Shoes of Leather, Football-Shoes of Leather, Golf-Shoes of Leather, Tennis-Shoes of Canvas and Rubber, Running-Shoes of Leather, and Shoes for General Athletic Purposes of Leather, Fabric, Rubber, and Combinations of Them.

Claims use since about July 1, 1912.

Ser. No. 148,899. (CLASS 39. CLOTHING.) LEOPOLD SELIS, Stoughton, Mass. Filed June 9, 1921.



Applicant disclaims exclusive ownership of the representation of a pair of shoes and also of the word "Shoes" except in association with the remainder of his mark.

Particular description of goods.—Leather Shoes.

Claims use since on or about Feb. 20, 1921.

Ser. No. 148,948. (CLASS 37. PAPER AND STATIONERY.) PACKAGE PAPER & SUPPLY CORPORATION, Springfield, Mass. Filed June 10, 1921.

BISKWRAP

Particular description of goods.—Waxed and Transparent Papers.

Claims use since May 15, 1921.

Ser. No. 149,061. (CLASS 39. CLOTHING.) STRAWBRIDGE & CLOTHIER, Philadelphia, Pa. Filed June 11, 1921.



Particular description of goods.—Men's and Boys' Outer Clothing.

Claims use since Feb. 1, 1921.

Ser. No. 149,036. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE THOMPSON-BARLOW COMPANY, New York, N. Y. Filed June 11, 1921.

Vaco

Particular description of goods.—Massaging-Cup for the Treatment of Ailments of the Human Body and Weight Reduction Thereof.

Claims use since June 1, 1921.

Ser. No. 149,249. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) N. SOLOW, New York, N. Y. Filed June 16, 1921.

"Uneedit"

Particular description of goods.—Solid-Headed Pins Made of Brass, Iron, or Steel, Without Ornamentation.

Claims use since February, 1912.

Ser. No. 149,277. (CLASS 37. PAPER AND STATIONERY.) FISCHEL PAPER CO., INC., Albany, N. Y. Filed June 17, 1921.

ADIRONDACK

Particular description of goods.—Bond, Ledger, Book, Cover, and Writing Paper.

Claims use since July 19, 1920.

Ser. No. 149,286. (CLASS 39. CLOTHING.) RAMBO & REGAR, INCORPORATED, Norristown, Pa. Filed June 17, 1921.



Particular description of goods.—Hosiery.

Claims use since January, 1914.

Ser. No. 149,342. (CLASS 39. CLOTHING.) J. A. MIGEL INC., New York, N. Y. Filed June 18, 1921.



"PO-LO"

Particular description of goods.—Women's Silk Dresses, Skirts, Waists, Petticoats, Bloomers, Corset-Covers, Camisoles, Nightgowns, Pajamas, Dressing-Gowns, Combinations, and Underwear Made of Silk.

Claims use since June 1, 1921.

Ser. No. 149,365. (CLASS 39. CLOTHING.) UTICA KNITTING COMPANY, Utica, N. Y. Filed June 18, 1921.

Springtex

Particular description of goods.—Knit Underwear for Men, Women, and Children.
Claims use since February, 1911.

Ser. No. 149,450. (CLASS 27. HOROLOGICAL INSTRUMENTS.) GEBRÜDER JUNGHANS, A. G., Schramberg, Germany. Filed June 21, 1921.



Particular description of goods.—Clocks, Watches, and Parts Thereof.
Claims use since December, 1917.

Ser. No. 149,451. (CLASS 27. HOROLOGICAL INSTRUMENTS.) GEBRÜDER JUNGHANS, A. G., Schramberg, Germany. Filed June 21, 1921.



Particular description of goods.—Clocks and Parts Thereof.
Claims use since August, 1917.

Ser. No. 149,454. (CLASS 39. CLOTHING.) GEORGE W. GRAIG, Wheeling, W. Va. Filed June 21, 1921.



No claim being made to the word "Special" apart from the mark as shown.
Particular description of goods.—Men's Ready-Made Suits.
Claims use since October, 1913.

Ser. No. 149,473. (CLASS 39. CLOTHING.) MYERS MANUFACTURING CO., Los Angeles, Calif. Filed June 21, 1921.

SWIM EASY

Particular description of goods.—Bathing-Suits.
Claims use since December, 1908.

Ser. No. 149,500. (CLASS 17. TOBACCO PRODUCTS.) JOHN M. BEBERIAN, Boston, Mass. Filed June 22, 1921.



No claim being made to the words "Cigarette" and "Tobacco" apart from the mark shown in the drawing.
Particular description of goods.—Cigarettes and cigarette-tobacco.
Claims use since Mar. 30, 1918.

Ser. No. 149,554. (CLASS 39. CLOTHING.) NORRISTOWN HOSIERY MILLS, Norristown, Pa. Filed June 23, 1921.

PIGEON



Particular description of goods.—Hosiery.
Claims use since June 1, 1921.

Ser. No. 149,605. (CLASS 39. CLOTHING.) A. J. TOWER COMPANY, Boston, Mass. Filed June 23, 1921.

Touncoat

No exclusive right is claimed to the use of the word "Coat" apart from the mark shown on the drawing.
Particular description of goods.—Waterproof Coats.
Claims use since February, 1916.

Ser. No. 149,593. (CLASS 39. CLOTHING.) MORGAN F. LEWIS, St. Louis, Mo. Filed June 24, 1921.

TIP-TOP

Particular description of goods.—Hosiery of All Kinds.
Claims use since on or about May 1, 1921.

Ser. No. 149,623. (CLASS 39. CLOTHING.) BOB & BASKIND, New York, N. Y. Filed June 25, 1921.

DOEBOY

Consisting of the word "Doeboy."
Particular description of goods.—Men's Work, Dress, Sport, and Negligée Shirts and Boys' Shirts and Blouses.
Claims use since June 7, 1921.

Ser. No. 149,640. (CLASS 39. CLOTHING.) HODGMAN RUBBER COMPANY, Yonkers, N. Y. Filed June 25, 1921.

"DUPLICOAT"

Particular description of goods.—Overcoats.
Claims use since June 13, 1921.

Ser. No. 149,668. (CLASS 46. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) NATHAN ZOHMAN, New York, N. Y. Filed June 25, 1921.

GOOD LUCK BRAND

MALT  EXTRACT

No claim being made to the words "Malt Extract" and also the word "Brand."
Particular description of goods.—Malt Extract.
Claims use since Dec. 1, 1920.

Ser. No. 149,713. (CLASS 39. CLOTHING.) MEYER-MUELLER-GOODMAN CO., St. Louis, Mo. Filed June 27, 1921.



No exclusive claim being made to the word "Cravats" apart from the mark shown.
Particular description of goods.—Men's and Boys' Cravats.
Claims use since June 1, 1921.

Ser. No. 149,826. (CLASS 39. CLOTHING.) M. A. SMITH'S SONS, Philadelphia, Pa. Filed June 29, 1921.

GOFHIK

Particular description of goods.—Leather Shoes.
Claims use since February, 1921.

Ser. No. 149,869. (CLASS 2. RECEPTACLES.) JOHN SCHROEDER LUMBER CO., Milwaukee, Wis. Filed June 30, 1921.

BoXinets

Particular description of goods.—Wooden Boxes for Holding Small Articles.
Claims use since May 23, 1921.

Ser. No. 149,898. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) GEO. R. GIBSON CO., New York, N. Y. Filed July 1, 1921.

KIDDIES BRUSH

No claim is made to the word "Brush" apart from the mark shown.
Particular description of goods.—Toilet-Brushes—Namely, Toothbrushes, Hair-Brushes, Nail-Brushes.
Claims use since June 20, 1921.

Ser. No. 149,937. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed July 1, 1921.

Biotose

Particular description of goods.—General Tonic.
Claims use since Jan. 27, 1900.

Ser. No. 150,025. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RICE PRODUCTS CO. INC., New Orleans, La. Filed July 5, 1921.

Ricet

Particular description of goods.—Rice.
Claims use since Apr. 18, 1921.

Ser. No. 150,052. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ACCUMULATOREN-FABRIK AKTIENGESELLSCHAFT, Berlin, Germany. Filed July 6, 1921.

VARTA

Particular description of goods.—Electric Accumulators and Parts Thereof.
Claims use since 1915.

Ser. No. 150,053. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ACCUMULATOREN-FABRIK AKTIENGESELLSCHAFT, Berlin, Germany. Filed July 6, 1921.

AFA

Particular description of goods.—Electric Accumulators and Parts Thereof.
Claims use since Jan. 22, 1920.

Ser. No. 150,069. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) H. S. JENNER, Rochester and Honeoye Falls, N. Y. Filed July 6, 1921.

TABLE ROCK



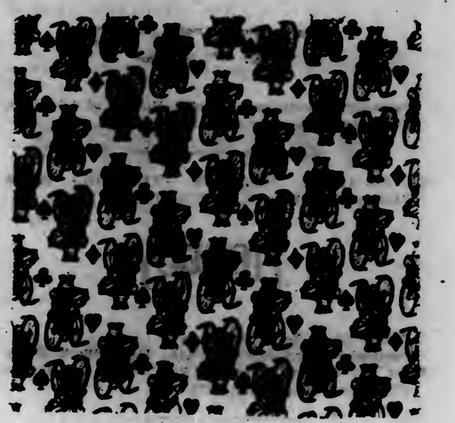
Particular description of goods.—Mineral-Spring Water.
Claims use since 1891.

Ser. No. 150,210. (CLASS 28. BROOMS, BRUSHES, AND DUSTERS.) TATE MANUFACTURING COMPANY, Boston, Mass. Filed July 7, 1921.

BLUEBIRD

Particular description of goods.—Mops.
Claims use since June 19, 1921.

Ser. No. 150,167. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, Cincinnati, Ohio. Filed July 8, 1921.



Particular description of goods.—Playing-Cards.
Claims use since about 1892.

Ser. No. 150,235. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE THREE STAR NON-RUB AUTO GLOSS MFG. CO., St. Louis, Mo. Filed July 12, 1921.

3 STAR



The drawing is lined for red. No claim being made to the words "Non-Rub" apart from the mark shown in the drawing.
Particular description of goods.—Polish for Automobiles.
Claims use since June 13, 1921.

Ser. No. 150,366. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) MEDICINAL SPRINGS CORPORATION, Wilmington, Del., and Meadville, Pa. Filed July 14, 1921.



The words "Medicinal Springs Water" and "Trade Mark" are disclaimed apart from the mark as shown by the drawing.
Particular description of goods.—Natural Mineral Water.
Claims use since June 5, 1921.

Ser. No. 150,374. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE STOVER SIGNAL ENGINEERING COMPANY, Cleveland, Ohio. Filed July 14, 1921.

ARROW-LITE

No claim is made to the representation of the face of the signal apart from the mark shown in the drawing.
Particular description of goods.—Electrically-Lighted Stop and Direction Signals for Vehicles.
Claims use since about June 1, 1921.

Ser. No. 150,402. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE J. HURWITT, New York, N. Y. Filed July 15, 1921.

UTHIN

Particular description of goods.—Remedy to Take Off Superfluous Fat and Reduce Weight.
Claims use since December, 1918.

Ser. No. 150,506. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) IGNACIO BARRAQUER BARRAQUER, Barcelona, Spain. Filed July 18, 1921.

Erisifaco

Particular description of goods.—Apparatus for the Complete Extraction of Cataract.
Claims use since February, 1920.

Ser. No. 150,566. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) JOSEPH D. R. FREED, New York, N. Y. Filed July 19, 1921.



Particular description of goods.—Wireless Apparatus.
Claims use since July 16, 1921.

Ser. No. 150,613. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. C. GRADY PRODUCE COMPANY, Reinbeck, Iowa. Filed July 19, 1921.



No claim being made to the representation of the outline of the statement "Iowa" apart from the mark shown in the accompanying drawing.
Particular description of goods.—Butter, Eggs, and Dressed Poultry.
Claims use since June 1, 1920.

Ser. No. 150,616. (CLASS 37. PAPER AND STATIONERY.) INDUSTRIAL PAPER COMPANY, Baltimore, Md. Filed July 19, 1921.

GENUINE
BULL DOG
KRAFT



No claim is made to the words "Genuine," "Kraft," "Papers of Strength," and "Its First Test" apart from the mark shown in the drawing.

Particular description of goods.—Kraft Wrapping-Paper.

Claims use since Mar. 26, 1921.

Ser. No. 150,623. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HARRY KATS, New York, N. Y. Filed July 19, 1921.



Applicant disclaims apart from the mark shown in the drawing the words "Trade-Mark."

Particular description of goods.—Certain Merchandise Consisting of Chiffon Velvet in Piece Goods, Used Exclusively for Dresses and Costumes.

Claims use since Mar. 1, 1921.

Ser. No. 150,634. (CLASS 37. PAPER AND STATIONERY.) ISIDORE M. SCHIFF, New York, N. Y. Filed July 19, 1921.

LITE-O-RITE

The lines in the drawing indicate shading only.

Particular description of goods.—Combination Pencil and Cigar-Lighter.

Claims use since July 12, 1921.

Ser. No. 150, 960. (CLASS 28. JEWELRY AND PRECIOUS METAL WARE.) CRAFT AND NEWTON, INCORPORATED, Providence, R. I. Filed July 26, 1921.

Pres-To

Particular description of goods.—Separable Links, Cuff-Buttons, Collar-Buttons, Lapel-Buttons; said Separable Links, Cuff-Buttons, Collar-Buttons, and Lapel-Buttons Being Made of or Plated with Precious Metal; Scarf-Pins, and Tie-Holders.

Claims use since December, 1919.

Ser. No. 151,006. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IPSWICH MILLING CO., Ipswich, S. D. Filed July 27, 1921.

SUNBRITE

Particular description of goods.—Wheat-Flour.

Claims use since June 15, 1921.

Ser. No. 151,009. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IPSWICH MILLING CO., Ipswich, S. D. Filed July 27, 1921.



No claim is made to the outline of the State of South Dakota apart from the showing in the drawing.

Particular description of goods.—Wheat-Flour.

Claims use since June 15, 1921.

Ser. No. 151,020. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMUEL B. POLAND, Baltimore, Md. Filed July 27, 1921.

DEL MONTE

Particular description of goods.—Butter.

Claims use since Mar. 25, 1921.

Ser. No. 151,036. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) DONIGER & COMPANY, INC., New York, N. Y. Filed July 28, 1921.

PENETREX

Particular description of goods.—Brushes—Namely, Tooth, Hair, Nail, and Clothes Brushes.

Claims use since June, 1921.

Ser. No. 151,217. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IZEN COMPANY, INCORPORATED, New York, N. Y. Filed Aug. 1, 1921.

izen

Particular description of goods.—A Preparation for Preserving the Surface of Metals.

Claims use since July 18, 1921.

Ser. No. 151,218. (CLASS 28. JEWELRY AND PRECIOUS METAL WARE.) IDEAL JEWELRY MANUFACTURING CO. INC., Providence, R. I. Filed Aug. 1, 1921.

THEDA

Particular description of goods.—Bracelets.

Claims use since May 1, 1921.

Ser. No. 151,331. (CLASS 48, MALT BEVERAGES, EXTRACTS AND LIQUORS.) PIERRE LEMOINE CIE., INC., New York, N. Y. Filed Aug. 3, 1921.



The words "Trade Mark" being disclaimed apart from the mark shown on the drawing.

Particular description of goods.—Non-Alcoholic Beer Extract to be Diluted and Carbonated for a Non-Alcoholic Beverage.

Claims use since May 15, 1921.

Ser. No. 151,556. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) ORANGE SMILE SIRUP COMPANY, St. Louis, Mo. Filed Aug. 8, 1921.



Particular description of goods.—A Non-Alcoholic Maltless Beverage Sold as a Soft Drink.

Claims use since July 22, 1921.

Ser. No. 151,590. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) NEMASKET MINERAL SPRING COMPANY, Middleboro, Mass. Filed Aug. 9, 1921.



The trade-mark of the Nemasket Mineral Spring Company consists of a circle, in the center of which is a white bill-board with the word "Neminsco" in black letters. In the background is a red half-sun rising over the top of the bill-board. The foreground consists of a grass plot intersected by three white paths leading to the bill-board. The grass plot in the foreground is green. Across the paths leading to the bill-board is printed in black letters "All paths lead to them." The word "Beverages" appearing on the drawing is hereby disclaimed apart from the mark as shown.

Particular description of goods.—Non-Alcoholic Maltless Beverages Sold as Soft Drinks and Mineral-Spring Waters.

Claims use since June 14, 1921.

Ser. No. 151,603. CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) FRANK M. ANDREWS, Battle Creek, Mich. Filed Aug. 10, 1921.

Gold Bond

Particular description of goods.—Violins, Violas, Cellos, Bass-Viols, Ukuleles, Mandolins, Guitars, Banjos, and Mandolas and Strings Therefor Made of Gut, Silk, Wire, or other Materials or Combinations Thereof.

Claims use since Apr. 1, 1921.

Ser. No. 151,712. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN T. HENDERSHOT, Newton, N. J. Filed Aug. 12, 1921.

ABLE-AIDS

Particular description of goods.—Pills to Aid Digestion.
Claims use since January, 1901.

Ser. No. 151,767. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) THE RIKER COMPANY, Newark, N. J. Filed Aug. 13, 1921.

KLIK LOK
RIKER

Particular description of goods.—Belt Buckles Made of or Plated with Precious Metal.
Claims use since about July 11, 1921.

Ser. No. 151,787. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DULLE-MEYER MILLING COMPANY, Chamois, Mo. Filed Aug. 15, 1921.

BLUE MOON

Particular description of goods.—Self-Rising Flour.
Claims use since about September, 1920.

Ser. No. 151,892. (CLASS 5. ADHESIVES.) TWO STAR MFG. CO., Sayville and Brooklyn, N. Y. Filed Aug. 17, 1921.

★ TWO STAR ★

Particular description of goods.—A Leak-Proof Composition for Tires.
Claims use since June, 1920.

Ser. No. 151,902. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BRUNE, POTTERSON & CO., New York, N. Y. Filed Aug. 18, 1921.

LISTADO TRIANGULO

No claim being made to the descriptive word "Listado." Trade-mark consists of the words "Listado Triangulo."
Particular description of goods.—Cotton Piece Goods.
Claims use since on or about Mar. 27, 1912.

Ser. No. 151,908. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BRUNE, POTTERSON & CO., New York, N. Y. Filed Aug. 18, 1921.



Particular description of goods.—Cotton Piece Goods, Including Cloths and Lace Textile Fabrics, but Not Including Drapery, Upholstery Textile Fabrics or Fabrics of Similar Descriptive Properties as Drapery and Upholstery Textile Fabrics.
Claims use since on or about Mar. 27, 1912.

Ser. No. 151,915. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) H. O. HURLEY COMPANY, Louisville, Ky. Filed Aug. 18, 1921.



Particular description of goods.—A Maltless, Non-Cereal, Non-Alcoholic Syrup from Which a Soft-Drink Beverage is Made.
Claims use since Apr. 19, 1921.

Ser. No. 151,945. (CLASS 28. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GAUL, DEER & SHEARER COMPANY, Philadelphia, Pa. Filed Aug. 19, 1921.



Particular description of goods.—Air Compressors.
Claims use since November, 1916.

Ser. No. 152,008. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) T. A. FATJOE COMPANY, Boston, Mass. Filed Aug. 22, 1921.

MEL-O-EEN

Particular description of goods.—Prepared Flour for Use in the Manufacture of Cakes and Pastry.
Claims use since Dec. 20, 1920.

Ser. No. 152,028. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHRISTOPHER NIELSEN, Carlstadt, N. J. Filed Aug. 22, 1921.

BABE-EZ

Particular description of goods.—Toilet and Baby Powder.
Claims use since Aug. 4, 1921.

Ser. No. 152,029. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD CORNELIUS NOONAN, Toronto, Ontario, Canada. Filed Aug. 22, 1921.

Calsodent
Calcium Soluble Dentifrice

No claim being made to the words "Calcium Soluble Dentifrice" apart from the mark as shown.
Particular description of goods.—Dentifrice.
Claims use since Aug. 1, 1919.

Ser. No. 152,051. (CLASS 37. PAPER AND STATIONERY.) A. T. WALRAVEN BOOK COVER COMPANY, Dallas, Tex. Filed Aug. 22, 1921.



Particular description of goods.—Protective Coverings for Books.
Claims use since Mar. 3, 1920.

293 O. G.—41

Ser. No. 152,054. (CLASS 28. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ARO TRACTOR COMPANY, Minneapolis, Minn. Filed Aug. 22, 1921.

A-R-O

Particular description of goods.—Tractors and Pumps.
Claims use since on or about Feb. 1, 1921.

Ser. No. 152,192. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) TUTTI FRUTTI BEVERAGE COMPANY, INC., Brooklyn, N. Y. Filed Aug. 25, 1921.

Ma-Mi

Particular description of goods.—Bottled Soda-Water and Syrup for Making the Same.
Claims use since about June 1, 1921.

Ser. No. 152,214. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) ROBERT RICHTER, Teichenberg, Czechoslovakia. Filed Aug. 26, 1921.



Particular description of goods.—Artificial Gems.
Claims use since Feb. 19, 1921.

Ser. No. 152,223. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM P. WALLACE, Victoria, Va. Filed Aug. 26, 1921.

KADR

Particular description of goods.—A Medicinal Preparation in Liquid or Powdered Form for the Treatment of the Kidneys and for Diabetes.
Claims use since Mar. 1, 1920.

Ser. No. 152,284. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE SOUTHWESTERN BROOM MFG. CO., Evansville, Ind. Filed Aug. 27, 1921.

QUALITY SEAL

Consisting of the words "Quality Seal."
Particular description of goods.—Brooms.
Claims use since Aug. 6, 1921.

Ser. No. 152,426. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KLARIT LIMITED, Liverpool, England. Filed Aug. 31, 1921.

KLARIT

Particular description of goods.—A Raw or Partly-Prepared Vegetable Substance for Use in Manufacture for Decolorization.
Claims use since Feb. 26, 1921.

Ser. No. 152,440. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PRESERVOTOP AUTO SPECIALTY CO., Seattle, Wash. Filed Aug. 31, 1921.



The pictorial representation of an automobile-top shown on the drawing is hereby disclaimed apart from the other features of the mark.
Particular description of goods.—Preservative Dressing or Stain for Automobile-Tops.
Claims use since July 15, 1921.

Ser. No. 152,451. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE UNITED ALKALI CO., LTD., Liverpool, England. Filed Aug. 31, 1921.



The representation of the heart which forms a part of the trade-mark is colored red.
Particular description of goods.—Caustic Soda, Chlorates, Bleaching-Powders, Soda-Ash, Soda-Crystals, and Bicarbonates.
Claims use since Dec. 6, 1876.

Ser. No. 152,453. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE UNITED ALKALI CO., LTD., Liverpool, England. Filed Aug. 31, 1921.

GREENBANK

Particular description of goods.—Caustic Soda, Chlorates, Bleaching Powders, Soda-Ash, Soda-Crystals, and Bicarbonates.
Claims use since Mar. 24, 1888.

Ser. No. 152,503. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) DOUGHTY MFG. CO., New York, N. Y. Filed Sept. 2, 1921.

STORM-KING

Particular description of goods.—Windshield-Cleaning Devices.
Claims use since about Aug. 4, 1920.

Ser. No. 152,516. (CLASS 17. TOBACCO PRODUCTS.) M. MELACHRINO CO., INC., New York, N. Y. Filed Sept. 2, 1921.



Particular description of goods.—Cigars, Cigarettes, Smoking and Chewing Tobacco.
Claims use since Jan. 2, 1915.

Ser. No. 152,542. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CARBS & OLMSTEAD CO., Rock Island, Ill. Filed Sept. 3, 1921.



Particular description of goods.—Maltless, Non-Cereal Beverages Sold as Soft Drinks—Namely, Mineral Water, Ginger-Ale, Orange-Cider, Lemon-Sour, Birch-Beer, Root-Beer.
Claims use since July 19, 1892.

Ser. No. 152,545. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE CHICAGO FOUNTAIN SODA WATER COMPANY, Chicago, Ill. Filed Sept. 3, 1921.



Particular description of goods.—A Non-Intoxicating, Non-Alcoholic, Non-Cereal, Maltless Fruit Beverage Sold as a Soft Drink and Syrups Used in the Preparation of the Same.
Claims use since Apr. 1, 1916.

Ser. No. 152,570. (CLASS 39. CLOTHING.) LONDON SHOP CO. INC., New York, N. Y. Filed Sept. 3, 1921.

MORRISOL

Consisting of the word "Morrisol."
Particular description of goods.—Leather Shoes.
Claims use since July 1, 1921.

Ser. No. 152,579. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) O'BRIEN VARNISH COMPANY, South Bend, Ind. Filed Sept. 3, 1921.



Particular description of goods.—Varnish.
Claims use since Aug. 5, 1914.

Ser. No. 152,590. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE RICH-SAMPLINER KNITTING MILLS COMPANY, Cleveland, Ohio. Filed Sept. 3, 1921.

1-DER-KLOTH

Particular description of goods.—Knitted Woolen Fabrics for Outer Garments, in the Piece.
Claims use since June 10, 1921.

Ser. No. 152,598. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WESTINGHOUSE LAMP COMPANY, Bloomfield, N. J. Filed Sept. 3, 1921.

Spark-C

Particular description of goods.—Potential-Detectors.
Claims use since July 19, 1921.

Ser. No. 152,667. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PREMIÈRE IMPORT COMPANY, New York, N. Y. Filed Sept. 6, 1921.

PREMIÈRE

Particular description of goods.—Human-Hair Nets.
Claims use since July 1, 1921.

Ser. No. 152,675. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Filed Sept. 7, 1921.

Katigen

Particular description of goods.—Dyes and Dyestuffs.
Claims use since about Jan. 1, 1896.

Ser. No. 152,676. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Filed Sept. 7, 1921. Under ten-year proviso.

Rhodulin

Particular description of goods.—Dyes and Dyestuffs.
Claims use since about Jan. 15, 1895.

Ser. No. 152,839. (CLASS 37. PAPER AND STATIONERY.) FORT HOWARD PAPER COMPANY, Green Bay, Wis. Filed Sept. 12, 1921.

CREAM of the FOREST

Particular description of goods.—Toilet-Paper, Paper Napkins, Paper Towels, and Paper Tablecloths.
Claims use since Oct. 18, 1920.

Ser. No. 152,840. (CLASS 37. PAPER AND STATIONERY.) FORT HOWARD PAPER COMPANY, Green Bay, Wis. Filed Sept. 12, 1921.

PUZZLE

Particular description of goods.—Toilet-Paper, Paper Napkins, Paper Towels, and Paper Tablecloths.
Claims use since Aug. 18, 1921.

Ser. No. 152,960. (CLASS 39. CLOTHING.) W. H. MCELWAIN COMPANY, Boston, Mass. Filed Sept. 15, 1921.

ALL
HEEL
M & H
COUNTER INNERSOLE
W
LEATHER

No claim is made to the words, "All Leather" and "Heel, Counter, Innersole," apart from the mark shown in the drawing.
Particular description of goods.—Leather Boots, Shoes, and Slippers.
Claims use since about July 25, 1921.

Ser. No. 153,056. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) STANDARD BOTTLING CO. INC., Newark, N. J. Filed Sept. 17, 1921.

WONDER

Particular description of goods.—Non-Alcoholic, Malt-less Beverages Sold as Soft Drinks.
Claims use since Aug. 14, 1921.

Ser. No. 153,094. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NILS A. JOHANSEN, Seattle, Wash. Filed Sept. 19, 1921.

Eves Red

Particular description of goods.—Cosmetics or Liquid Rouge.
Claims use since Sept. 1, 1921.

Ser. No. 153,090. (CLASS 2. RECEPTACLES.) A. KRAMER INC., Brooklyn, N. Y. Filed Sept. 19, 1921. Under section 9 of act of Mar. 19, 1920.

Bread

No claim being made to the word "Bread" apart from the mark shown.
Particular description of goods.—Bread-boxes.
Claims use since 1918.

Ser. No. 153,117. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) SEATTLE SUIT CASE MANUFACTURING CO., Seattle, Wash. Filed Sept. 19, 1921.

BULL-DOG

Particular description of goods.—Grips, Satchels, Trunks, Suitcases, Portfolios, and Pocketbooks.
Claims use since Jan. 1, 1921.

Ser. No. 153,176. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) DRICO SILO CO., Minneapolis, Minn. Filed Sept. 21, 1921.

KIDDIE GYM

Consists of the words "Kiddie Gym."
Particular description of goods.—Gymnastic Apparatus for Children.
Claims use since Aug. 18, 1921.

Ser. No. 153,183. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAR-VELLE TOILET COMPANY, Orrville, Ohio. Filed Sept. 21, 1921.

Mar-velle

Particular description of goods.—Hair-Shampoo.
Claims use since May 1, 1921.

Ser. No. 153,220. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAMUEL STRAUSS, New York, N. Y. Filed Sept. 22, 1921.

Vegetarx

Particular description of goods.—A Laxative for the Treatment of Torpid Liver, Constipation, Biliousness, and Sick Headache or Any Disorder of Liver and Bowels.
Claims use since May, 1921.

Ser. No. 153,249. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY F. HOFFMAN, Detroit, Mich. Filed Sept. 23, 1921.

GREENITE

Particular description of goods.—Medicine for the Treatment of Pimples, Ulcers, Boils, Hives, Eczema, Salt-Rheum, Tetter, Ringworm, and Barbers' Itch, Also a Medicine Used as a Laxative.
Claims use since June, 1917.

Ser. No. 153,257. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PEET BROS. MANUFACTURING COMPANY, Kansas City, Kans. Filed Sept. 23, 1921.

CREME OIL

No claim is made to the word "Oil" apart from the mark shown in the drawing.
Particular description of goods.—Soap.
Claims use since Jan. 1, 1915.

Ser. No. 153,258. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE PIXIE CORPORATION, New York, N. Y. Filed Sept. 23, 1921.

Pixie

Particular description of goods.—Clothes Laundrying Tablets with Both Cleansing and Bluing Properties.
Claims use since on or about Aug. 25, 1921.

Ser. No. 153,261. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE DAIRY LABORATORIES, Philadelphia, Pa. Filed Sept. 24, 1921.

Dairmol

Particular description of goods.—Antiseptics and Deodorizers.
Claims use since Jan. 1, 1921.

Ser. No. 153,342. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) EDWIN I. DUSCHNES, New York, N. Y. Filed Sept. 26, 1921.

CONTINENTAL

Particular description of goods.—Storage Batteries.
Claims use since about Mar. 1, 1921.

Ser. No. 153,347. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ELI P. FAY, Los Angeles, Calif. Filed Sept. 26, 1921.

SEPCO

Particular description of goods.—Battery-Separator.
Claims use since July 1, 1920.

Ser. No. 153,364. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) LEE PAGE, Birmingham, Ala. Filed Sept. 26, 1921.

MAGIC

Particular description of goods.—Malt Extract.
Claims use since Feb. 10, 1921.

Ser. No. 153,372. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) A. STEIN AND COMPANY, Chicago, Ill. Filed Sept. 26, 1921.

HICKORY

Particular description of goods.—Rubber Sheeting.
Claims use since January, 1913.

Ser. No. 153,429. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EMIL BUKOWSKI, Whitestone, N. Y. Filed Sept. 28, 1921.

RENASCIN

Particular description of goods.—Blood Salt Nutritive.
Claims use since Jan. 1, 1921.

Ser. No. 153,443. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE DOW CHEMICAL COMPANY, Midland, Mich. Filed Sept. 28, 1921.

DOWCO

Particular description of goods.—Insecticides and Fungicides.
Claims use since February, 1921.

Ser. No. 153,458. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN L. HEAPICH, Columbus, Ohio. Filed Sept. 28, 1921.

KA-DI-OK

Particular description of goods.—Medicine Consisting of a General Tonic Laxative to Aid in the Treatment of Rheumatism; Kidney, Liver, Indigestion, and Stomach Trouble; Loss of Appetite, Headache, Bad Blood, Tired Feeling, Sleeplessness, Nervous Disorders, and Auto-Intoxication.
Claims use since about 1900.

Ser. No. 153,471. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE E. L. PATCH COMPANY, Stoneham, Mass. Filed Sept. 28, 1921.

URIMENE

Particular description of goods.—Preparation for the Treatment of Kidney, Liver, and Bladder Trouble.
Claims use since July 21, 1903.

Ser. No. 153,472. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) A. E. PHILLIPS, St. Louis, Mo. Filed Sept. 28, 1921.

Royal

Particular description of goods.—Secondary Electrical Batteries.
Claims use since Jan. 1, 1921.

Ser. No. 153,500. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WARREN E. BENSON, Marietta, Ga. Filed Sept. 29, 1921.

MAGNARSENIS

Particular description of goods.—Preparation for Use in the Treatment of Nausea and Vomiting, Especially in Pregnancy and Diseases of Children.
Claims use since 1919.

Ser. No. 153,633. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MAYFLOWER WORSTED COMPANY, Kingston, Mass. Filed Oct. 3, 1921.



Particular description of goods.—Worsted Goods in the Piece for Men's Clothing.
Claims use since Apr. 1, 1920.

Ser. No. 153,695. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EUGENE J. RENFRE, Philadelphia, Pa. Filed Oct. 3, 1921.

VIM-O-GEN
Highly Concentrated

No claim of right to the exclusive use of the words "Highly Concentrated" being made except as shown in the accompanying drawing.
Particular description of goods.—A Refined Pharmaceutical Compound Rich in Yeast Vitamins and other Body-Building Elements.
Claims use since Sept. 20, 1921.

Ser. No. 153,699. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THE STANDARD MATCH CORPORATION, Garfield, N. J. Filed Oct. 3, 1921.

STANDARD
SAFETY MATCHES

No claim is made for the words "Standard" and "Safety Matches."
Particular description of goods.—Matches.
Claims use since about Sept. 20, 1921.

Ser. No. 153,712. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) BURNS-POLLOCK ELECTRIC MANUFACTURING COMPANY, Indiana Harbor, Ind. Filed Oct. 4, 1921.

Capitol

Particular description of goods.—Phonographs and Phonograph-Records.
Claims use since Aug. 18, 1921.

Ser. No. 153,723. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AGNES C. GRAVES, Milwaukee, Wis. Filed Oct. 4, 1921.

AGNESIAN
MAR-VELLA

Particular description of goods.—Skin-Lotions.
Claims use since August, 1920.

Ser. No. 153,747. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE UPJOHN COMPANY, Kalamazoo, Mich. Filed Oct. 4, 1921. Under ten-year proviso.

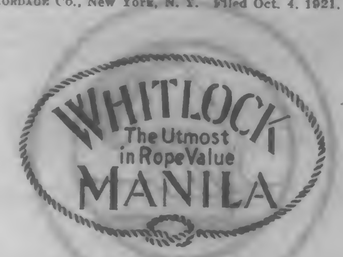


Particular description of goods.—Anticonstipation-Pills for the Treatment of Constipation, Calophen Tablets for the Treatment of Constipation, Caripeptic with Charcoal and Soda Tablets for the Treatment of Gastric and Intestinal Indigestion, Caripeptic Liquid for the Treatment of Gastric and Intestinal Indigestion, Caripeptic Powder Aromatic for the Treatment of Gastric and Intestinal Indigestion; Creosotone, a Fluid Tonic Preparation for the Treatment of Bronchitis, Incipient Tuberculosis, and as a Reconstructive Tonic After Wasting Diseases; Derm-Anodyne, an Embrocation for the Treatment of Neuritis, Sprains, and Contusions; Diginfuse, a Tablet for Preparing an Infusion for the Treatment of Cardiac Decompensation; Ferrosodylate Pills for the Treatment of Anemia; Hematic Tonic Pills for the Treatment of Anemia, Chlorosis, Impotence, Neurasthenia, and Nervous Dyspepsia; Hexatone, an Elixir for the Treatment of Cystitis, Nephritis, Urethritis and Inflammatory Conditions of the Urinary Tract; Phenosorcin Ointment for the Treatment of Eczema, Psoriasis, and Parasitic Diseases of the Skin; Palmo-Dionin, a Fluid Preparation for the Treatment of Coughs, Bronchitis, and Laryngitis; Phenolax Wafers for the Treatment of Constipation, Phenolax Powder for the Treatment of Constipation; Restonal Pills for the Treatment of Anemia and the Late Effect of Diseases Such as Typhoid Fever, Syphilis, and Rheumatism; Stroncylate Pills for the Treatment of Rheumatism, Neuritis, and Neuralgia; Laxsaline, a Granular Effervescent Salt for the Treatment of Constipation, Nephritis, and Neuritis;

Thyme-Lyptol, a Fluid Solution for the Treatment of Stomatitis, Gastritis, Vaginitis, Metritis; Tymocol, a Fluid Preparation for the Treatment of Stomatitis, Gastritis, Enteritis, Vaginitis, and Metritis; Pollenin, a Preparation for the Treatment of Hay-Fever, Laxatonic Granules for the Treatment of Constipation, Quinin Sulfate Pills for the Treatment of Malaria, Quinin Sulfate Tablets for the Treatment of Malaria; Fluid Extract of Aconite-Leaves for the Treatment of Cardiac Palpitation, Neuralgia, and Rheumatism, Fluid Extract of Belladonna-Leaves for the Treatment of Whooping-Cough and Asthma; Fluid Extract of Ergot for the Treatment of Uterine Inertia, Hemorrhage, and Metritis; Fluid Extract of Pilocarpus for the Treatment of Dropsy and Uremia, Tincture of Belladonna-Leaves for the Treatment of Asthma and Whooping-Cough, Warburg's Tincture for the Treatment of Malaria, Tincture of Digitalis for the Treatment of Cardiac Decompensation, Elixir Aletris Compound for the Treatment of Threatened Abortion and Contraction and Subinvolution of the Uterus, Elixir Buchu Compound for the Treatment of Kidney and Bladder Diseases, Syrup of Hydriodic Acid for the Treatment of Coughs and Bronchitis, Procaine Tablets for Use as a Local Anesthetic, Quinin and Urea Hydrochlorid Tablets for Use as a Local Anesthetic.

Claims use since September, 1890.

Ser. No. 153,748. (CLASS 7. CORDAGE.) WHITLOCK CORDAGE CO., New York, N. Y. Filed Oct. 4, 1921.



No claim being made to the exclusive use of the words "The Utmost in Rope Value Manila" apart from the mark shown in the drawing.

Particular description of goods.—Manila Rope.

Claims use since Aug. 1, 1921.

Ser. No. 153,749. (CLASS 7. CORDAGE.) WHITLOCK CORDAGE CO., New York, N. Y. Filed Oct. 4, 1921.



No claim being made to the exclusive use of the words "Superior Sisal" apart from the mark shown in the drawing.

Particular description of goods.—Sisal Rope.

Claims use since Aug. 1, 1921.

Ser. No. 153,817. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LARSOUTH-OLSON CO., New York, N. Y. Filed Oct. 6, 1921.



Particular description of goods.—Dry Batteries.

Claims use since Sept. 29, 1921.

Ser. No. 153,833. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) M. J. WOHL & CO. INC., New York and Long Island City, N. Y. Filed Oct. 6, 1921.



Consists of the combined word "Hi-Speed."

Particular description of goods.—Electric-Arc Lamps.

Claims use since July 1, 1921.

Ser. No. 153,890. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MUTE-A-PHONE CORPORATION, New York, N. Y. Filed Oct. 8, 1921.



Particular description of goods.—Telephone-Mufflers.

Claims use since Sept. 17, 1921.

Ser. No. 154,084. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) L. B. HAIR TONIC CO., Minneapolis, Minn. Filed Oct. 14, 1921.

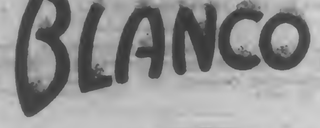


The picture comprising the mark is that of Lena Olson. The words "Trade Mark" are disclaimed.

Particular description of goods.—Hair-Tonic.

Claims use since Jan. 25, 1921.

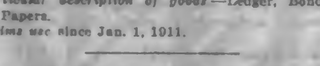
Ser. No. 154,236. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PACIFIC CHEMICAL COMPANY, Los Angeles, Calif. Filed Oct. 17, 1921.



Particular description of goods.—An Ammonia Washing Compound.

Claims use since June 17, 1921.

Ser. No. 154,328. (CLASS 37. PAPER AND STATIONERY.) STONE & ANDREW INC., Boston, Mass. Filed Oct. 10, 1921.



The word "Andstone."

Particular description of goods.—Ledger, Bond, and Book Papers.

Claims use since Jan. 1, 1911.

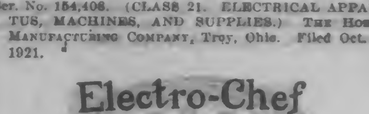
Ser. No. 154,349. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE COCO SOAP COMPANY, Denver, Colo. Filed Oct. 20, 1921.



Particular description of goods.—Soap.

Claims use since Aug. 26, 1921.

Ser. No. 154,406. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE HOBART MANUFACTURING COMPANY, Troy, Ohio. Filed Oct. 21, 1921.



Particular description of goods.—Electrically-Driven Beating and Mixing Machines.

Claims use since Oct. 4, 1921.

Ser. No. 154,444. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. F. GLADDING & CO. INC., South Otselic, N. Y. Filed Oct. 22, 1921.



No claim being made to the exclusive use of the words or numerals "Extra Quality Braided Line, 50 Ft., No. 5" apart from the mark as shown on the drawing.

Particular description of goods.—Braided Fish-Lines.

Claims use since Aug. 22, 1912.

Ser. No. 154,447. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. F. GLADDING & CO. INC., South Otselic, N. Y. Filed Oct. 22, 1921.



No claim being made to the exclusive use of the words "Best Quality Braided, Waterproof Finish, 25 Yds., Oil Silk, Brand, No. 4" apart from the mark as shown on the drawing.

Particular description of goods.—Waterproof Braided Fishing-Lines.

Claims use since Aug. 22, 1912.

Ser. No. 154,552. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. F. GLADDING & CO. INC., South Otselic, N. Y. Filed Oct. 25, 1921.



No claim being made to the exclusive use of the words "Special Braided Trout Line, No. 100, 25 Yds., Waterproof, Contains 48 Distinct Threads," apart from the mark as shown on the drawing.

Particular description of goods.—Braided Trout and Bass Lines and Waterproof Fishing-Lines.

Claims use since Aug. 22, 1912.

Ser. No. 154,556. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. F. GLADDING & CO. INC., South Otselic, N. Y. Filed Oct. 25, 1921.



No claim being made to the exclusive use of the words and numerals "Finest Japanese Silk, Saline Process, Enameled Silk, Test 14 Lbs., No. H., 25 Yds." apart from the mark as shown on the drawing.

Particular description of goods.—Silk Fishing-Lines.

Claims use since Aug. 22, 1912.

Ser. No. 154,564. (CLASS 37. PAPER AND STATIONERY.) THE KELLOGG & BULKELEY COMPANY, Hartford, Conn. Filed Oct. 25, 1921.

NUTMEG

Particular description of goods.—Flat Papers, Writing, Bond, and Ledger.

Claims use since Feb. 23, 1917.

Ser. No. 154,625. (CLASS 37. PAPER AND STATIONERY.) BLAISDELL PENCIL COMPANY, Philadelphia, Pa. Filed Oct. 27, 1921.

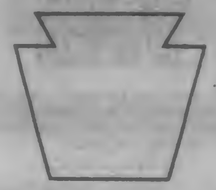
KEYSTONE

Consists of the word "Keystone."

Particular description of goods.—Lead-Pencils, Mechanical Pencils, Penholders, Rubber Erasers, and Soap Erasers.

Claims use since about Jan. 1, 1911.

Ser. No. 154,636. (CLASS 37. PAPER AND STATIONERY.) BLAISDELL PENCIL COMPANY, Philadelphia, Pa. Filed Oct. 27, 1921.



Consists of the representation of a keystone.

Particular description of goods.—Lead-Pencils, Mechanical Pencils, Penholders, Rubber Erasers, and Soap Erasers.

Claims use since about Jan. 1, 1911.

Ser. No. 154,707. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SCHEELINE Manufacturing Company, San Francisco, Calif. Filed Oct. 28, 1921.

Comfort by wire.

Consisting of the words "Comfort by Wire."

Particular description of goods.—Electric Steam-Radiators.

Claims use since July 1, 1921.

Ser. No. 154,709. (CLASS 37. PAPER AND STATIONERY.) STONE & ANDREW, INC., Boston, Mass. Filed Oct. 28, 1921.

BULKWELL

Particular description of goods.—Book-Papers.

Claims use since Jan. 1, 1917.

Ser. No. 154,731. (CLASS 37. PAPER AND STATIONERY.) THE LAURENCE ENVELOPE COMPANY, Springfield, Mass. Filed Oct. 29, 1921.

DIRECTMAIL

Particular description of goods.—Paper Such as is Ordinarily Used for Writing and Printing, Commercial Stationery, Sheets of Paper and Cards Known Commercially as "Announcements," and Envelops to Fit the Same.

Claims use since Aug. 1, 1921.

Ser. No. 154,767. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RADIO CORPORATION OF AMERICA, New York, N. Y. Filed Oct. 29, 1921.

RADIOLA

Particular description of goods.—Radio Receiving Apparatus.

Claims use since about Sept. 27, 1921.

Ser. No. 154,779. (CLASS 37. PAPER AND STATIONERY.) WILLIAM G. WILLMAN PAPER CO., INC., New York, N. Y. Filed Oct. 29, 1921. Under ten-year proviso.

Hawthorne

Particular description of goods.—Writing and Printing Paper.

Claims use since 1891.

Ser. No. 154,842. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) NORTH EAST ELECTRIC COMPANY, Rochester, N. Y. Filed Oct. 31, 1921.



Particular description of goods.—Electric Signal-Horns for Motor-Vehicles.

Claims use since June 21, 1919.

Ser. No. 154,892. (CLASS 42, KNITTED, NETTED, AND TEXTILE FABRICS.) TEXAS COTTON MILL CO., McKinney, Tex. Filed Nov. 1, 1921.



Particular description of goods.—Cotton Piece Goods.

Claims use since Oct. 25, 1917.

Ser. No. 155,008. (CLASS 37. PAPER AND STATIONERY.) BROWN & BIGELOW, St. Paul, Minn. Filed Nov. 4, 1921.

Redipoint

Particular description of goods.—Pencils, Leads, and Erasers.

Claims use since on or about Nov. 1, 1917.

Ser. No. 155,017. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOSEPH FLEISCHER, New York, N. Y. Filed Nov. 4, 1921.

Uweara

Particular description of goods.—Hair-Nets.

Claims use since Oct. 21, 1921.

Ser. No. 155,026. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO. INC., New York, N. Y. Filed Nov. 4, 1921.

Eponette

Particular description of goods.—Silk Piece Goods.

Claims use since April, 1921.

Ser. No. 155,063. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Nov. 5, 1921.

Jewella

Particular description of goods.—Woolen Piece Goods.
Claims use since Oct. 18, 1921.

Ser. No. 155,054. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Nov. 5, 1921.

Melrosa

Particular description of goods.—Woolen Piece Goods.
Claims use since July 25, 1921.

Ser. No. 155,060. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JANSEN & PERTZFELD, INC., New York, N. Y. Filed Nov. 5, 1921.

VISIONETTE

Particular description of goods.—Silks in the Piece.
Claims use since Oct. 1, 1921.

Ser. No. 155,141. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) C. BAHNSEN & CO., INC., New York, N. Y. Filed Nov. 8, 1921.

Alonzo

Particular description of goods.—Wool-Velour Coating Piece Goods.
Claims use since Jan. 2, 1921.

Ser. No. 155,142. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) C. BAHNSEN & CO., INC., New York, N. Y. Filed Nov. 8, 1921.

Arabella

Particular description of goods.—Wool-Velour Coating Piece Goods.
Claims use since Jan. 2, 1921.

Ser. No. 155,145. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) C. BAHNSEN & CO., INC., New York, N. Y. Filed Nov. 8, 1921.

Cordelia

Particular description of goods.—Wool-Velour Coating Piece Goods.
Claims use since Jan. 2, 1921.

Ser. No. 155,146. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) C. BAHNSEN & CO., INC., New York, N. Y. Filed Nov. 8, 1921.

Equestra

Particular description of goods.—Wool-Corduroy Piece Goods.
Claims use since Jan. 2, 1921.

Ser. No. 155,148. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) C. BAHNSEN & CO., INC., New York, N. Y. Filed Nov. 8, 1921.

Jessica

Particular description of goods.—Wool-Velour Coating Piece Goods.
Claims use since Jan. 2, 1921.

Ser. No. 155,150. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) C. BAHNSEN & CO., INC., New York, N. Y. Filed Nov. 8, 1921.

Manon

Particular description of goods.—Wool-Velour Coating Piece Goods.
Claims use since Jan. 2, 1921.

Ser. No. 155,151. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) C. BAHNSEN & CO., INC., New York, N. Y. Filed Nov. 8, 1921.

Nerissa

Particular description of goods.—Wool-Velour Coating Piece Goods.
Claims use since Jan. 2, 1921.

Ser. No. 155,152. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) C. BAHNSEN & CO., INC., New York, N. Y. Filed Nov. 8, 1921.

Orsino

Particular description of goods.—Wool-Velour Coating Piece Goods.
Claims use since Jan. 2, 1921.

Ser. No. 155,154. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) C. BAHNSEN & CO., INC., New York, N. Y. Filed Nov. 8, 1921.

Tosca

Particular description of goods.—Wool-Velour Coating Piece Goods.
Claims use since Jan. 2, 1921.

Ser. No. 155,178. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) B. LICHTIG & SON, INC., Oakland, Calif. Filed Nov. 8, 1921.

Jenny Lind

Particular description of goods.—Hair-Nets.
Claims use since June 18, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

DECEMBER 20, 1921.

149,629. COMMINUTING MACHINERY, AND SPECIFICALLY FOR TUBE AND BALL MILLS AND TUMBLING-BODIES THEREFOR. ALLIS-CHALMERS MANUFACTURING COMPANY, Milwaukee, Wis.
Filed June 3, 1921. Serial No. 148,571. PUBLISHED AUGUST 16, 1921.

149,630. [WITHDRAWN.]

149,631. LUBRICATING-OILS, DYNAMO, SCREW-CUTTING, LOOM, AND SPINDLE OIL. THE AMERICAN OIL COMPANY, Providence, R. I.
Filed May 21, 1921. Serial No. 148,015. PUBLISHED SEPTEMBER 6, 1921.

149,632. CERTAIN NAMED TABLE-LINEN, BED-LINEN, TOWELS, CARPETS, AND TAPESTRIES. AMERICAN PURCHASING CORPORATION, LTD., Toronto, Ontario, Canada, and New York, N. Y.
Filed May 13, 1920. Serial No. 132,376. PUBLISHED AUGUST 23, 1921.

149,633. SOAP. AMERICAN SAFETY RAZOR CORPORATION, Brooklyn, N. Y.
Filed November 13, 1919. Serial No. 124,828. PUBLISHED JULY 27, 1920.

149,634. CLENCHING-NAILS. GEO. BAKER & SONS, Brockton, Mass.
Filed May 23, 1921. Serial No. 148,052. PUBLISHED AUGUST 30, 1921.

149,635. A SHOE AND LEATHER POLISH INCLUDING A DYE AS ONE OF ITS INGREDIENTS. GEORGE W. BAKER, Dallas, Tex.
Filed December 2, 1919. Serial No. 125,486. PUBLISHED JULY 27, 1920.

149,636. CERTAIN NAMED VEHICLE PARTS AND ACCESSORIES. BATAVIA MANUFACTURING COMPANY, Bushnell, Ill.
Filed December 26, 1917. Serial No. 108,137. PUBLISHED AUGUST 23, 1921.

149,637. FEED FOR HORSES, MULES, CATTLE, HOGS, AND POULTRY. BEAUMONT COTTON OIL MILL CO. INC., Dallas, Tex.
Filed July 21, 1917. Serial No. 105,163. PUBLISHED AUGUST 30, 1921.

149,638. RUBBER SPONGES. GEORGE WILLIAM BELDAM, London, England.
Filed April 7, 1920. Serial No. 130,786. PUBLISHED AUGUST 23, 1921.

149,639. SHEETINGS. BENCOR EXPORTING AND IMPORTING CO., INC., New York, N. Y.
Filed June 28, 1920. Serial No. 134,299. PUBLISHED AUGUST 16, 1921.

149,640. BAKE-OVENS. THE G. S. BLODGETT COMPANY, INC., Burlington, Vt.
Filed July 5, 1921. Serial No. 149,997. PUBLISHED AUGUST 23, 1921.

149,641. BAKE-OVENS. THE G. S. BLODGETT COMPANY, INC., Burlington, Vt.
Filed July 5, 1921. Serial No. 149,998. PUBLISHED AUGUST 23, 1921.

149,642. PRINTING-PAPER. THE BLUNDEN-LYON COMPANY, Chicago, Ill.
Filed May 28, 1921. Serial No. 148,863. PUBLISHED AUGUST 16, 1921.

149,643. MECHANICAL RUBBER GOODS—VIZ., BELTING, HOSE, PACKING. BOSTON BELTING CORPORATION, Boston, Mass.
Filed May 1, 1919. Serial No. 118,041. PUBLISHED NOVEMBER 25, 1919.

149,644. GAME-BOARDS, GAME-INDICATORS, GAME-COUNTER, GAME-PIECE, AND GAMES PLAYED THEREWITH. EDMUND BRUDER, Chicago, Ill.
Filed June 2, 1921. Serial No. 148,520. PUBLISHED SEPTEMBER 6, 1921.

149,645. HORSESHOES AND HORSESHOE-CALKS. BRYDEN HORSE SHOE CO., Catasauqua, Pa.
Filed October 27, 1916. Serial No. 98,918. PUBLISHED SEPTEMBER 6, 1921.

149,646. GLOVES OF FABRIC AND OF LEATHER. BUTLER BROTHERS, Chicago, Ill.
Filed May 24, 1921. Serial No. 148,119. PUBLISHED AUGUST 16, 1921.

149,647. WRITING-INKS, TYPEWRITER-RIBBONS, AND INKING-PADS. BUXTON & SKINNER PRINTING AND STATIONERY COMPANY, St. Louis, Mo.
Filed November 19, 1920. Serial No. 139,843. PUBLISHED AUGUST 16, 1921.

149,648. CERTAIN NAMED VETERINARY PREPARATIONS. CAROLINA REMEDIES COMPANY, Union, S. C.
Filed May 31, 1921. Serial No. 148,433. PUBLISHED AUGUST 23, 1921.

149,649. HAMMERS AND WRENCHES. HENRY CHENEY HAMMER CORPORATION, Little Falls, N. Y.
Filed December 18, 1920. Serial No. 141,250. PUBLISHED AUGUST 30, 1921.

149,650. BRISTLES. CHESNUTT, COOPER & CO., London, England.
Filed May 24, 1921. Serial No. 148,125. PUBLISHED AUGUST 23, 1921.

149,651. SELF-RISING WHEAT-FLOUR. CITY MILLS COMPANY, Columbus, Ga.
Filed June 14, 1921. Serial No. 149,126. PUBLISHED AUGUST 23, 1921.

149,652. RUBBER TIRES. COAST TIRE AND RUBBER COMPANY, Oakland, Calif.
Filed May 18, 1921. Serial No. 147,861. PUBLISHED AUGUST 16, 1921.

149,653. PUBLICATIONS ISSUED MONTHLY. A. M. COLLINS MANUFACTURING COMPANY, Philadelphia, Pa.
Filed May 23, 1921. Serial No. 148,060. PUBLISHED AUGUST 23, 1921.

149,654. BLEACHED MUSLIN IN THE PIECE, SHEETS, PILLOW-CASES. COOPER, COATE & CASEY DRY GOODS CO., Los Angeles, Calif.
Filed June 6, 1921. Serial No. 148,711. PUBLISHED AUGUST 9, 1921.

149,655. FIRE-BRICK, HOLLOW BUILDING-TILE, FACE-BRICK AND FIBER-BRICK TILE. CRUSH BRICK COMPANY, Sulphur Springs, Tex.
Filed April 8, 1921. Serial No. 145,882. PUBLISHED AUGUST 30, 1921.

149,656. OLD NEWSPAPERS. F. B. DALLAM, San Francisco, Calif.
Filed July 26, 1920. Serial No. 135,544. PUBLISHED JULY 12, 1921.

149,657. CARDBOARD AND PICTORIAL TOYS FOR TEACHING CHILDREN SIMPLE WORDS. DAVIS AND FORD, Chicago, Ill.
Filed December 28, 1920. Serial No. 141,559. PUBLISHED AUGUST 30, 1921.

149,658. VARNISHES—NAMELY, BRONZING LIQUID, ASPHALTUM VARNISH, AND JAPAN DRIERS. SARA V. DE FORREST, New York, N. Y.
Filed May 14, 1921. Serial No. 147,712. PUBLISHED AUGUST 30, 1921.

149,659. TENTS AND TENT-SHEDS. DES MOINES TENT & AWNING COMPANY, Des Moines, Iowa.
Filed April 11, 1921. Serial No. 145,999. PUBLISHED AUGUST 30, 1921.

149,660. BUTTER AND EGGS. DETROIT BEMP COMPANY, Detroit, Mich.
Filed December 23, 1920. Serial No. 141,455. PUBLISHED AUGUST 16, 1921.

149,661. A NEWSPAPER-SECTION. THE DISPATCH PUBLISHING COMPANY, Pittsburgh, Pa.
Filed May 14, 1921. Serial No. 147,713. PUBLISHED AUGUST 23, 1921.

149,662. A NEWSPAPER-SECTION. THE DISPATCH PUBLISHING COMPANY, Pittsburgh, Pa.
Filed May 14, 1921. Serial No. 147,714. PUBLISHED AUGUST 23, 1921.

149,663. TOOL AND MACHINE HANDLES AND FERRULES. GLENDON B. DOANE, Boston, Mass.
Filed May 18, 1921. Serial No. 147,865. PUBLISHED AUGUST 16, 1921.

149,664. A LIQUID PREPARATION FOR POLISHING FINISHED SURFACES. DU-RITE PRODUCTS CO., New York, N. Y.
Filed May 17, 1921. Serial No. 147,820. PUBLISHED SEPTEMBER 6, 1921.

149,665. UNITARY ELECTRIC-LIGHT PLANTS. EASTLITE ELECTRIC COMPANY, Louisville, Ky.
Filed May 18, 1921. Serial No. 147,868. PUBLISHED AUGUST 16, 1921.

149,666. VARNISHES. EGAN AND HAUSMAN COMPANY, INC., Brooklyn, N. Y.
Filed May 26, 1921. Serial No. 148,263. PUBLISHED AUGUST 30, 1921.

149,667. ANIMAL HAIR OR WOOL FOR MAKING WIGS AND OTHER SIMILAR ARTICLES. J. EPHRAIMSON, Bradford, England.
Filed April 13, 1921. Serial No. 146,114. PUBLISHED AUGUST 23, 1921.

149,668. HANDKERCHIEFS. H. ENGEL & SONS, New York, N. Y.
Filed June 1, 1921. Serial No. 148,489. PUBLISHED AUGUST 16, 1921.

149,669. UNLOADING-TRUCKS AND COMMERCIAL TRUCKS AND CAR-BODIES. THE FAIRBANKS CO., New York, N. Y.
Filed January 13, 1921. Serial No. 142,210. PUBLISHED MAY 31, 1921.

149,670. AUTOMOBILE-TOPS, AUTOMOBILE-RADIATOR COVERS, AUTOMOBILE-CURTAINS, AND CUSHIONS. FALLS CITY BUGGY TOP COMPANY, Louisville, Ky.
Filed April 25, 1921. Serial No. 146,701. PUBLISHED AUGUST 23, 1921.

149,671. REPAIR GUMS, RUBBER CEMENT, MADE WHOLLY OR PARTLY OF RUBBER. THE FEDERAL RUBBER COMPANY, Cudahy, Wis.
Filed April 28, 1921. Serial No. 146,881. PUBLISHED SEPTEMBER 6, 1921.

149,672. REPAIR GUMS, RUBBER CEMENT, MADE WHOLLY OR PARTLY OF RUBBER. THE FEDERAL RUBBER COMPANY, Cudahy, Wis.
Filed April 28, 1921. Serial No. 146,883. PUBLISHED SEPTEMBER 6, 1921.

149,673. REPAIR GUMS, RUBBER CEMENT, MADE WHOLLY OR PARTLY OF RUBBER. THE FEDERAL RUBBER COMPANY, Cudahy, Wis.
Filed April 28, 1921. Serial No. 146,895. PUBLISHED SEPTEMBER 6, 1921.

149,674. THRESHING MACHINERY, SAWMILLS, PORTABLE AND STATIONARY STEAM-ENGINES, TRACTION-ENGINES, AND TRACTORS. FRICK COMPANY, Waynesboro, Pa.
Filed May 23, 1921. Serial No. 148,063. PUBLISHED AUGUST 16, 1921.

149,675. DOUGHNUTS. GAHAM BAKING COMPANY, Worcester, Mass.
Filed July 18, 1919. Serial No. 120,665. PUBLISHED AUGUST 30, 1921.

149,676. HAIR-NETS AND HANDKERCHIEFS. GILMAN BROS., INC., Boston, Mass.
Filed June 16, 1921. Serial No. 149,226. PUBLISHED AUGUST 16, 1921.

149,677. COVER-PAPER. HAMPDEN GLAZED PAPER & CARD CO., Holyoke, Mass.
Filed May 28, 1921. Serial No. 148,387. PUBLISHED AUGUST 16, 1921.

149,678. CANDY IN BOXES. HAREM CANDY CO., New York, N. Y.
Filed May 27, 1921. Serial No. 148,329. PUBLISHED AUGUST 23, 1921.

149,679. COFFEE. CHARLES A. HEBBINK, New York, N. Y.
Filed June 14, 1921. Serial No. 149,182. PUBLISHED AUGUST 23, 1921.

149,680. CANNED VEGETABLES. INDEPENDENT CANNING CO., Chicago, Ill.
Filed May 24, 1921. Serial No. 148,146. PUBLISHED AUGUST 23, 1921.

149,681. LAWN-MOWERS. JACOBSEN MANUFACTURING COMPANY, Racine, Wis.
Filed May 16, 1921. Serial No. 147,785. PUBLISHED AUGUST 16, 1921.

149,682. STEEL DROP-FORGINGS. THE JEFFERSON FORGE PRODUCTS COMPANY, Detroit, Mich.
Filed May 27, 1921. Serial No. 148,384. PUBLISHED SEPTEMBER 6, 1921.

149,683. A PREPARATION OF THE CASEIN OF MILK USED TO INCREASE THE PROTEIN OF DIETS. MEAD JOHNSON & CO., Evansville, Ind.
Filed June 6, 1921. Serial No. 148,740. PUBLISHED AUGUST 23, 1921.

149,684. FLAT WOOD TOY FIGURES DEPICTING HUMAN BEINGS AND ANIMALS. JONESERS MANUFACTURING CO., Berkeley, Calif.
Filed December 22, 1920. Serial No. 141,423. PUBLISHED SEPTEMBER 6, 1921.

149,685. IMITATION-LEATHER MATERIAL. BERNARD KAY, New York, N. Y.
Filed June 4, 1921. Serial No. 148,659. PUBLISHED AUGUST 23, 1921.

149,686. CANDIES. NATHAN U. KATZ, Camden, N. J.
Filed May 14, 1921. Serial No. 147,726. PUBLISHED AUGUST 16, 1921.

149,687. A PREPARATION FOR THE RELIEF OF HEADACHE, NEURALGIA, RHEUMATIC AND OTHER ACHES AND PAINS, AND FOR COLDS, IN POWDER AND TABLET FORM. WILLIAM A. KIMBELL, Atlanta, Ga.
Filed May 23, 1921. Serial No. 148,078. PUBLISHED SEPTEMBER 13, 1921.

149,688. HYDRAULIC AND HIGH-TEMPERATURE CEMENT. KING REFACTORIES CORPORATION, Buffalo, N. Y.
Filed May 25, 1921. Serial No. 148,220. PUBLISHED AUGUST 23, 1921.

149,689. CORROSION, ACID, AND GAS PROOF PAINT FOR SMOKESTACKS, WATER-TANKS, PIPES, AND THE LIKE. KINGSBURY CORPORATION, Chicago, Ill.
Filed May 23, 1921. Serial No. 148,079. PUBLISHED AUGUST 30, 1921.

149,690. CHILD'S EDUCATIONAL AND AMUSEMENT APPLIANCE. GOTTLIEB L. B. KLINGSEIL, Omaha, Nebr.
Filed May 17, 1921. Serial No. 147,820. PUBLISHED AUGUST 30, 1921.

149,691. CRACKED CORN FOR POULTRY FEED, KNOWN AS SCRATCH FEED. CHAS. A. KRAUSE MILLING CO., Greenfield, Wis.
Filed May 3, 1920. Serial No. 131,974. PUBLISHED AUGUST 23, 1921.

149,692. KUMYSS. KUMYSS, INCORPORATED, New York, N. Y.
Filed September 13, 1920. Serial No. 137,131. PUBLISHED AUGUST 16, 1921.

149,693. FLAVORINGS FOR FOOD. LAWRENCE CHEMICAL CO., Marietta, Ohio.
Filed March 30, 1921. Serial No. 145,467. PUBLISHED JUNE 28, 1921.

149,694. COTTON PIECE GOODS. LEVINSON TEXTILE CO. INC., New York, N. Y.
Filed June 8, 1920. Serial No. 133,424. PUBLISHED JULY 27, 1920.

149,695. PUTTY. LIBERTY PAINT CO. INC., New York, N. Y.
Filed June 2, 1921. Serial No. 148,542. PUBLISHED AUGUST 30, 1921.

149,696. CANDY. MANUFACTURING COMPANY OF AMERICA, Philadelphia, Pa.
Filed May 19, 1921. Serial No. 147,936. PUBLISHED SEPTEMBER 6, 1921.

149,697. CERTAIN NAMED VEHICLES, PARTS, AND ACCESSORIES. MARBURG BROTHERS, INC., New York, N. Y.
Filed June 5, 1920. Serial No. 133,323. PUBLISHED AUGUST 23, 1921.

149,698. FISHING-LINES, FISHING-RODS, AND FISHING-ROD REELS. MARSHALL-WELLS COMPANY, Duluth, Minn.
Filed May 31, 1921. Serial No. 148,451. PUBLISHED AUGUST 30, 1921.

149,699. DOLL BEDS AND CRIBS. MICHIGAN WIRE GOODS CO., Niles, Mich.
Filed November 19, 1920. Serial No. 139,862. PUBLISHED AUGUST 23, 1921.

149,700. BROAD SILKS IN THE PIECE. J. A. MIGEL, INC., New York, N. Y.
Filed May 27, 1921. Serial No. 148,341. PUBLISHED JULY 19, 1921.

149,701. AUTOMOBILE-BUMPERS. MILWAUKEE AUTO ENGINE & SUPPLY COMPANY, Milwaukee, Wis.
Filed May 16, 1921. Serial No. 147,790. PUBLISHED AUGUST 16, 1921.

149,702. TRANSMISSION APPARATUS AND EXPLOSION-MOTORS FOR MOTOR-CARS, MOTORCYCLES, AND AEROPLANES. MINERVA MOTORS, Antwerp, Belgium.
Filed November 5, 1920. Serial No. 139,214. PUBLISHED AUGUST 23, 1921.

149,703. AUTOMOBILES AND CHASSIS FOR AUTOMOBILES, BICYCLES, AND AEROPLANES. MINERVA MOTORS, Antwerp, Belgium.
Filed November 5, 1920. Serial No. 139,215. PUBLISHED AUGUST 16, 1921.

149,704. SANITARY CLOSED RECEPTACLES FOR HOLDING TOOTHBRUSHES. BENJAMIN R. MORRISON, Wilmington, N. C.
Filed April 7, 1921. Serial No. 145,840. PUBLISHED SEPTEMBER 6, 1921.

149,705. CERTAIN HOISTS, ENGINES, WINCHES, AND CAPSTANS, AND PILE-DRIVERS, DERRICKS, AND CABLEWAYS. J. S. MUNDY HOISTING ENGINE CO., Newark, N. J.
Filed May 25, 1921. Serial No. 148,283. PUBLISHED AUGUST 30, 1921.

149,706. COFFEE, SPICES, MUSTARD, FRUIT FLAVORING EXTRACTS—NAMELY, LEMON. C. A. MCDOCK MFG. CO., Kansas City, Mo.
Filed May 24, 1921. Serial No. 148,158. PUBLISHED AUGUST 23, 1921.

149,707. BISCUIT, CRACKERS, AND CAKE. NATIONAL BISCUIT COMPANY, New York, N. Y.
Filed April 7, 1921. Serial No. 145,841. PUBLISHED AUGUST 30, 1921.

149,708. BISCUIT AND CRACKERS. NATIONAL BISCUIT COMPANY, New York, N. Y.
Filed April 7, 1921. Serial No. 145,844. PUBLISHED AUGUST 30, 1921.

149,709. HORSESHOES AND HORSESHOE-CALKS. THE NEVERSLIP MANF. CO., New Brunswick, N. J.
Filed October 26, 1916. Serial No. 98,908. PUBLISHED SEPTEMBER 6, 1921.

149,710. HAIR-RECEIVERS, BOTTLE-HOLDERS, SALVE-JARS, PIN-BOXES, AND PIN-TRAYS. NEWARK TORTOISE SHELL NOVELTY CO., Newark, N. J.
Filed July 28, 1920. Serial No. 135,527. PUBLISHED SEPTEMBER 6, 1921.

149,711. NEWSPAPERS PUBLISHED IN THE CITY OF NEW YORK. NEWS SYNDICATE CO., INC., New York, N. Y.
Filed May 11, 1921. Serial No. 147,568. PUBLISHED AUGUST 23, 1921.

149,712. PIECE GOODS OF SILK, COTTON AND SILK, AND SILK AND WOOL. NONOTUCK SILK COMPANY, Northampton, Mass.
Filed September 11, 1918. Ser. No. 113,180. PUBLISHED AUGUST 9, 1921.

149,713. CANDY. A. E. PERKINS, Jr., Baltimore, Md.
Filed June 2, 1921. Serial No. 148,550. PUBLISHED AUGUST 23, 1921.

149,714. A MONTHLY PERIODICAL. PHILADELPHIA OPERATIVE BUILDERS ASSOCIATION, Philadelphia, Pa.
Filed May 25, 1921. Serial No. 148,239. PUBLISHED AUGUST 23, 1921.

149,715. YARD GOODS USED IN BEDSPREADS, SHEETS, PILLOW-CASES, TOWELS, AND RELATED COTTON GOODS. L. S. PLAUT & CO., Newark, N. J.
Filed April 19, 1921. Serial No. 146,396. PUBLISHED JUNE 28, 1921.

149,716. MALT SYRUP USED FOR FOOD PURPOSES. PREMIER MALT PRODUCTS CO. OF OHIO, INC., Steubenville, Ohio.
Filed May 24, 1921. Serial No. 148,164. PUBLISHED AUGUST 23, 1921.

149,717. GLARE-SHIELDS IN THE FORM OF AWNINGS ATTACHABLE TO THE FRONT OF AUTOMOBILE-TOPS. THE PROTECTOGLARE CO., Los Angeles, Calif.
Filed June 9, 1920. Serial No. 133,493. PUBLISHED AUGUST 30, 1921.

149,718. CHICKEN INCUBATORS, BROODERS, AND GALVANIZED HOVERS. QUEEN INCUBATOR COMPANY, Lincoln, Nebr.
Filed May 6, 1921. Serial No. 147,308. PUBLISHED AUGUST 23, 1921.

149,719. LAWN-SPRINKLERS. RAINBOW LAWN SPRINKLER COMPANY, Jacksonville, Fla.
Filed May 23, 1921. Serial No. 148,087. PUBLISHED AUGUST 30, 1921.

149,720. EMBROIDERIES OR EMBROIDERED ARTICLES—NAMELY, BED SETS, DRESSER-SCARFS, CURTAINS, &c. RECHSTEINER EMBROIDERY COMPANY, INC., Chicago, Ill.
Filed May 16, 1921. Serial No. 147,795. PUBLISHED AUGUST 23, 1921.

149,721. EXTRACT OF VANILLA FOR FOOD-FLAVORING. K. REINHART, Newark, N. J.
Filed March 24, 1920. Serial No. 130,116. PUBLISHED AUGUST 30, 1921.

149,722. SMOKING-PIPES, CIGAR-HOLDERS, CIGARETTE-HOLDERS, AND OTHER SMOKERS' ARTICLES. REISS-PREMIER PIPE COMPANY, Chicago, Ill.
Filed May 27, 1920. Serial No. 133,023. PUBLISHED JUNE 21, 1921.

149,723. DRIED, READY-MIXED, AND PASTE PAINTS; VARNISH, PREPARED SHELLAC, AND PAINT, VARNISH, AND SHELLAC REMOVERS. RENOVITE CORPORATION, New York, N. Y.
Filed May 23, 1921. Serial No. 148,090. PUBLISHED SEPTEMBER 6, 1921.

149,724. PATTERN-MARKING MACHINES. JOSEPH A. ROSENFELD, Philadelphia, Pa.
Filed May 31, 1921. Serial No. 148,457. PUBLISHED AUGUST 16, 1921.

149,725. COAL. THE ROTH COAL COMPANY, INC., New York, N. Y.
Filed June 8, 1921. Serial No. 148,354. PUBLISHED AUGUST 30, 1921.

149,726. CANDY. SAMOSET CHOCOLATES COMPANY, Boston, Mass.
Filed June 24, 1920. Serial No. 134,145. PUBLISHED AUGUST 30, 1921.

149,727. CANDY. SAMOSET CHOCOLATES COMPANY, Boston, Mass.
Filed June 24, 1920. Serial No. 134,146. PUBLISHED AUGUST 30, 1921.

149,728. CANDY. SAMOSET CHOCOLATES COMPANY, Boston, Mass.
Filed May 18, 1921. Serial No. 147,898. PUBLISHED AUGUST 16, 1921.

149,729. REAR-VIEW MIRRORS FOR AUTOMOBILES. SARGENT COMPANY, Chicago, Ill.
Filed May 23, 1921. Serial No. 148,092. PUBLISHED AUGUST 16, 1921.

149,730. FOOD-FLAVORING EXTRACTS. THE C. F. SAUER COMPANY, Richmond, Va.
Filed May 18, 1921. Serial No. 147,890. PUBLISHED AUGUST 16, 1921.

149,731. ELECTRIC HORNS. SCHWARZE ELECTRIC COMPANY, Adrian, Mich.
Filed May 27, 1921. Serial No. 148,355. PUBLISHED AUGUST 16, 1921.

149,732. CALCAREOUS COMPOSITION FOR SOIL IMPROVEMENT. SECURITY CEMENT & LIME CO., Hagerstown, Md.
Filed December 17, 1920. Serial No. 141,242. PUBLISHED AUGUST 23, 1921.

149,733. AGRICULTURAL AND MILLING MACHINERY, CONSISTING OF FEED-MILLS, GRINDING-MILLS, CRUSHERS, PULVERIZERS, AND SHREDDERS. JAMES B. SEDBERRY, Texarkana, Ark.
Filed April 19, 1921. Serial No. 146,401. PUBLISHED AUGUST 23, 1921.

149,734. VALVE-GRINDING COMPOUND. CLIFFORD SHATTUCK, Detroit, Mich.
Filed June 1, 1921. Serial No. 148,513. PUBLISHED AUGUST 23, 1921.

149,735. SPRINGS FOR VEHICLES. SHELDON AXLE & SPRING CO., Wilkes-Barre, Pa.
Filed April 8, 1921. Serial No. 145,921. PUBLISHED AUGUST 23, 1921.

149,736. FLUSHING-OIL. STANDARD OIL COMPANY, San Francisco, Calif.
Filed April 9, 1921. Serial No. 145,976. PUBLISHED SEPTEMBER 6, 1921.

149,737. CONDENSED MILK. CHAS. T. STORK & CO., INC., New York, N. Y.
Filed April 16, 1919. Serial No. 117,544. PUBLISHED AUGUST 30, 1921.

149,738. GRASS RUGS. SAMUEL L. STROUD, Oakland, Calif.
Filed May 11, 1921. Serial No. 147,576. PUBLISHED AUGUST 9, 1921.

149,739. CERTAIN NAMED HOUSEHOLD FURNITURE. SUMMERFIELD COMPANY, Boston, Mass.
Filed April 12, 1920. Serial No. 131,049. PUBLISHED AUGUST 23, 1921.

149,740. ROLLED STEEL IN VARIOUS FORMS AND FINISHES. THE SUPERIOR SHEET STEEL COMPANY, Louisville, Ohio.
Filed May 21, 1921. Serial No. 148,039. PUBLISHED SEPTEMBER 6, 1921.

149,741. RAW COFFEE. TAFFAR & BELLION, New York, N. Y.
Filed May 14, 1921. Serial No. 147,747. PUBLISHED AUGUST 16, 1921.

149,742. RAW COFFEE. TAFFAR & BELLION, New York, N. Y.
Filed May 14, 1921. Serial No. 147,748. PUBLISHED AUGUST 16, 1921.

149,743. CHILLI SAUCE, CHILLI-CON-CARNE, BONELESS SPANISH CHICKEN TAMALES, BEANS AND CHILLI, SPAGHETTI. TAYLOR TAMALE COMPANY, Los Angeles, Calif.
Filed June 1, 1920. Serial No. 133,170. PUBLISHED AUGUST 23, 1921.

149,744. MONTHLY MAGAZINES. UNITED PUBLISHING COMPANY, Kansas City, Mo.
Filed June 17, 1921. Serial No. 149,303. PUBLISHED AUGUST 23, 1921.

149,745. CERTAIN BOOT AND SHOE MACHINES AND TOOLS. UNITED SHOE MACHINERY CORPORATION, Paterson, N. J., and Boston, Mass.
Filed December 27, 1920. Serial No. 141,542. PUBLISHED AUGUST 23, 1921.

149,746. A LIQUID PREPARATION FOR REMOVING OLD VARNISH, WAX, DIRT, GREASE, &c. CHARLES A. WALTER, Anna, Ill.
Filed May 17, 1921. Serial No. 147,855. PUBLISHED AUGUST 30, 1921.

149,747. MALT EXTRACTS. ALBERT WIBLICH, New York, N. Y.
Filed December 22, 1920. Serial No. 141,445. PUBLISHED AUGUST 16, 1921.

149,748. AUTOMOBILES. C. H. WILLS & COMPANY, Marysville, Mich.
Filed May 28, 1921. Serial No. 148,414. PUBLISHED AUGUST 16, 1921.

149,749. ICE-SKATES AND ROLLER-SKATES. WINCHESTER REPEATING ARMS CO., New Haven, Conn.
Filed May 25, 1921. Serial No. 148,253. PUBLISHED AUGUST 30, 1921.

149,750. ROASTED COFFEE. YOUNG & GRIFFIN COFFEE CO., INC., New York, N. Y.
Filed May 27, 1921. Serial No. 148,358. PUBLISHED AUGUST 23, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b).]

DECEMBER 20, 1921.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

149,751. (CLASS 10. FERTILIZERS.) THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, New York, N. Y. Filed Oct. 19, 1921. Serial No. 154,295.

BUILT UP TO A STANDARD
NOT DOWN TO A PRICE

Particular description of goods.—Fertilizers.
Claims use since January, 1920.

149,752. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE AMERICAN FORK & HOE COMPANY, Cleveland, Ohio, and Fort Madison, Iowa. Filed June 8, 1921. Serial No. 148,572.

STANDARD

Particular description of goods.—Hand-Cultivators, Hand-Drills and Hand Hill and Drill Seeders, and Hand Garden-Cultivators, Hand Garden-Seeders, and Hand Combination Seeders and Cultivators.
Claims use since May, 1903.

149,753. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) THE BAER & WILDE CO., Attleboro, Mass. Filed June 10, 1921. Serial No. 148,016.

KUM-A-PART

Particular description of goods.—Cuff-Buttons.
Claims use since January, 1914.

149,754. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE BAKER R & L COMPANY, Cleveland, Ohio. Filed Aug. 27, 1920. Serial No. 136,540.

BAKER

Particular description of goods.—Electric Controllers.
Claims use since on or about Sept. 27, 1917.

149,755. (CLASS 43. THREAD AND YARN.) THE BARBOUR BROTHERS COMPANY, Paterson, N. J. Filed Sept. 27, 1921. Serial No. 153,390.



Particular description of goods.—Linen Thread.
Claims use since about 1891.

149,756. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BRADLEY PULVERIZER CO., Boston, Mass. Filed Aug. 20, 1921. Serial No. 151,977.

BRADLEY 3 ROLL

Particular description of goods.—Grinding and Pulverizing Mills.
Claims use since August, 1904.

149,757. (CLASS 12. CONSTRUCTION MATERIALS.) THE CASKEY-DUPREE MFG. CO., Marietta, Ohio. Filed June 29, 1920. Serial No. 134,349.

WINDOW-WALL
For the Sleeping Porch de Luxe

Particular description of goods.—Sashes, Ventilator Sashes and Frames Used in the Making of Sleeping-Porches, Fresh-Air Hospitals, and Open-Air Structures, and the Article is Used Between Posts and Pillars to make an Inclosure in Any Suitable Place.
Claims use since January, 1913.

149,758. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE L. D. CAULK COMPANY, Milford, Del. Filed May 17, 1921. Serial No. 147,860.

DE TREY'S
SYNTHETIC
PORCELAIN

Particular description of goods.—Porcelain Used for Filling Teeth and for Making Dental Facings, Crowns, and Window-Inlays.
Claims use since 1911.

149,759. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE L. D. CAULK COMPANY, Milford, Del. Filed Aug. 10, 1921. Serial No. 151,611.

CAULK

Particular description of goods.—Mercury, Gold-Plating Solution, Flux for Use in Soldering Gold and other Metals, and Prepared Chalk.
Claims use on mercury since June, 1898; on gold plating solution since January, 1911; on flux for use in soldering gold and other metals since January, 1915, and on prepared chalk since June, 1898.

149,760. (CLASS 38. PRINTS AND PUBLICATIONS.) THOMAS GRANT COOKE, Chicago, Ill. Filed Sept. 8, 1921. Serial No. 152,697.

PERFECT VOICE INSTITUTE

Particular description of goods.—Printed Booklets and Pamphlets.
Claims use since about Oct. 1, 1916.

149,761. (CLASS 38. PRINTS AND PUBLICATIONS.) THOMAS GRANT COOKE, Chicago, Ill. Filed Sept. 8, 1921. Serial No. 152,698.

UNIVERSITY OF APPLIED SCIENCE

Particular description of goods.—Printed Booklets and Pamphlets.
Claims use since about June 15, 1919.

149,762. [WITHDRAWN.]

149,763. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DELANO, POTTER AND CO., INC., Boston, Mass. Filed June 2, 1921. Serial No. 148,536.

Pekoe Buds

Particular description of goods.—Tea.
Claims use since Jan. 2, 1920.

149,764. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. G. DODSON, Atlanta, Ga. Filed Feb. 14, 1921. Serial No. 143,543.

IRONIZED YEAST

Particular description of goods.—A Medicinal Tablet for Rundownness, Fatigue, Depression, Lack of Energy, and Skin Troubles.
Claims use since September, 1920.

149,765. (CLASS 28. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WILLIAM ELY, Providence, R. I. Filed Aug. 5, 1921. Serial No. 151,451.

NO-DUST

Particular description of goods.—Machines for Washing, Pickling, and Drying Metal Parts; Dust-Collecting Machines, and Tobbing-Machines.
Claims use since April, 1909.

149,766. (CLASS 39. CLOTHING.) L. B. EVANS' SON COMPANY, Wakefield, Mass. Filed July 16, 1921. Serial No. 150,443.

EVANS
STANDARD

Particular description of goods.—Men's, Women's, and Children's Shoes, Slippers, and Oxfords.
Claims use since January, 1915.

149,767. (CLASS 39. CLOTHING.) THE FAIR, Chicago, Ill. Filed Mar. 14, 1921. Serial No. 144,718.

Foot Form

Particular description of goods.—Leather Shoes.
Claims use since as or about Jan. 1, 1917.

149,768. (CLASS 39. CLOTHING.) THE FAIR, Chicago, Ill. Filed Mar. 14, 1921. Serial No. 144,714.

WEARPROOF

Particular description of goods.—Leather Shoes.
Claims use since on or about Jan. 1, 1917.

149,769. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FAYETTEVILLE ICE AND MFG. CO., Fayetteville, N. C. Filed July 21, 1921. Serial No. 150,740.

Carolina Ice Cream Co.

Particular description of goods.—Ice-Cream.
Claims use since 1915.

149,770. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) FLETCHER-WICKES CO., Chicago, Ill. Filed Aug. 20, 1921. Serial No. 151,985.

Fletcher

Particular description of goods.—Reproducers and Tone-Arms for Phonographs.
Claims use since February, 1918.

149,771. (CLASS 28. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FREDERICK OSANN COMPANY, New York, N. Y. Filed June 16, 1921. Serial No. 149,241.

OSANN

Particular description of goods.—Sewing, Fur-Beating, and Cloth-Cutting Machines and Parts Thereof and Machine-Needles.
Claims use since on or about Jan. 1, 1908.

149,772. [WITHDRAWN.]

149,773. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BRESSFORD GALE, Philadelphia, Pa. Filed Aug. 13, 1920. Serial No. 136,079.

Thermocomb

Particular description of goods.—Electrically-Heated Combs.
Claims use since May 1, 1920.

149,774. (CLASS 39. CLOTHING.) THE GANO-DOWNS CLOTHING COMPANY, Denver, Colo. Filed Oct. 2, 1919. Serial No. 128,351.

KENSINGTON

Particular description of goods.—Men's Suits and Overcoats.
Claims use since Sept. 1, 1917.

149,775. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GLASER, CRANDELL CO., Chicago, Ill. Filed Oct. 14, 1920. Serial No. 138,285.

Everbest

Particular description of goods.—Fruit Preserves, Pickled Vegetables, Relishes, Oils, Salad-Dressings, Spaghetti, Olives, Vinegar, Catsup.
Claims use since July 1, 1902.

149,776. (CLASS 39. CLOTHING.) JOSEPH A. GOLDSTEIN, New York, N. Y. Filed May 5, 1921. Serial No. 147,239.

Shur-Fit

Particular description of goods.—Ladies' Wearing-Apparel—Namely, Suits, Skirts, and Coats.
Claims use since 1909.

149,777. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE B. F GOODRICH COMPANY, New York, N. Y. Filed Sept. 22, 1920. Serial No. 137,467.

BEST IN THE LONG RUN

Particular description of goods.—Pneumatic-Tire Casings Made of Fabric Combined with Rubber and Non-Adhesive Rubber Sheets for Repairing Tires.
Claims use on tires since about 1910 and on rubber sheets since about 1913.

149,778. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GRAHAM BROS. SOAP CO., Chicago, Ill. Filed Feb. 28, 1921. Serial No. 144,141.

OLIVE-CREAM

Particular description of goods.—Toilet Soap.
Claims use since Jan. 18, 1902.

149,779. (CLASS 39. CLOTHING.) ABRAHAM HASS, New York, N. Y. Filed Nov. 22, 1920. Serial No. 139,967.

HASS
STYLEBILT SHOES

Particular description of goods.—Shoes of Leather and Leather Shoes Having Leather Vamps with Cloth Tops.
Claims use since June, 1919.

149,780. (CLASS 39. CLOTHING.) THE HORTON LEATHER COMPANY, Milwaukee, Wis. Filed Nov. 12, 1920. Serial No. 139,578.

WASH-BUX

Particular description of goods.—Leather Gloves.
Claims use since about June 1, 1919.

149,781. (CLASS 15. OILS AND GREASES.) HALSTEAD SPECIALTIES CO., San Francisco, Calif. Filed June 9, 1920. Serial No. 133,466.

SPRING-EEZ

Particular description of goods.—Lubricant and Squeak Cure, with Incidental Properties as a Rust Preventive.
Claims use since Nov. 10, 1919.

149,782. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLOYD B. HOLYCROSS, Dayton, Ohio. Filed July 18, 1921. Serial No. 150,529.

HOLYCROSS

Particular description of goods.—An External Preparation for All Diseases of the Skin.
Claims use since on or about July 1, 1911.

149,783. (CLASS 41. CANES, PARASOLS, AND UMBRELLAS.) HENRY HOWELL & COMPANY LIMITED, London, England. Filed Sept. 3, 1921. Serial No. 152,562.

HOWELL LONDON

Particular description of goods.—Walking Sticks and Canes, Umbrella-Sticks, Umbrella-Handles, Parasol Sticks and Handles.
Claims use since 1891.

149,784. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) KESTENMAN BROS. MFG. CO., Providence, R. I. Filed Oct. 6, 1921. Serial No. 153,815.

WIDE OPEN

Particular description of goods.—Lingerie-Clasps Made Wholly or in Part of or Plated with Precious Metal.
Claims use since July 16, 1917.

149,785. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KINGAN & CO. INCORPORATED, Indianapolis, Ind. Filed July 27, 1921. Serial No. 151,012.

RELIABLE

Particular description of goods.—Poultry Feed.
Claims use since June 15, 1920.

149,786. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) KINZIE RUBBER AND MANUFACTURING CO., Chicago, Ill. Filed Mar. 27, 1920. Serial No. 130,281.

Kinzie

Particular description of goods.—Rubber Sheetings.
Claims use since Nov. 1, 1919.

149,787. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) KNICKERBOCKER CASE COMPANY, Chicago, Ill. Filed Apr. 23, 1921. Serial No. 146,635.

"MADE RIGHT"

Particular description of goods.—Bags Made of Leather, Fiber, &c., for Holding Merchandise-Samples, Instruments, and Tools.
Claims use since Jan. 1, 1910.

149,788. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PETER CAILLER KOHLER SWISS CHOCOLATES CO., INC., New York, N. Y. Filed July 29, 1921. Serial No. 151,092.

· HIGH AS THE ALPS IN QUALITY ·

Particular description of goods.—Milk-Chocolate and Cocoa.
Claims use since 1900.

149,789. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. L. KRAFT & BROS. CO., Chicago, Ill. Filed June 15, 1921. Serial No. 149,192.

KRAFT

Particular description of goods.—Cheese, and Macaroni and Cheese.
Claims use since on or about Jan. 1, 1909.

149,790. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELLIS G. KRUPNICK, Baltimore, Md. Filed Dec. 15, 1919. Serial No. 126,038.

Dento

Particular description of goods.—Tooth-Paste.
Claims use since July 1, 1919.

149,791. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JEFFERSON LIVINGSTON, Chicago, Ill. Filed July 25, 1921. Serial No. 150,905.

LIVINGSTON ROTARY
TOMATO WASHER

Particular description of goods.—Tomato-Washing Machines.
Claims use since July 1, 1916.

149,792. (CLASS 38. PRINTS AND PUBLICATIONS.) B. L. MAKEPEACE, INCORPORATED, Boston, Mass. Filed Sept. 30, 1920. Serial No. 137,785.

"PERFECTSCALE"

Particular description of goods.—Photolithographic Prints.
Claims use since Jan. 1, 1920.

149,793. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) OLD TOWN CANOE COMPANY, Old Town, Me. Filed Aug. 12, 1921. Serial No. 151,720.

Old Town

Particular description of goods.—Canoes, Boats, Boat and Canoe Paddles, Oars, Backrests for Canoes and Boats, Boat and Canoe Sails, and Lee-Boards.
Claims use since Jan. 26, 1906.

149,794. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) ERNEST PRESTON PRATOR, Leeper, Mo. Filed Nov. 1, 1920. Serial No. 139,051.

INSTANT

Particular description of goods.—Cutting and Welding Torches.
Claims use since about Oct. 16, 1920.

149,795. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES. THE RAYBESTOS COMPANY, Bridgeport, Conn. Filed Aug. 25, 1921. Serial No. 152,184.

CHATTERLESS

Particular description of goods.—Brake-Linings.
Claims use since January, 1914.

149,796. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) ADAMS F. KERR, Penn township, York county, Pa. Filed Aug. 12, 1919. Serial No. 121,604.



The outer circle and the words "Hides and Tallow" being in red.
Particular description of goods.—Hides.
Claims use since Feb. 1, 1919.

149,797. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) GUSTAV F. RICHTER, Brooklyn, N. Y. Filed May 26, 1921. Serial No. 148,240.

LOKTITE

Particular description of goods.—Mouth Gags.
Claims use since April, 1920.

149,798. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RIX MANUFACTURING COMPANY, Dayton, Ohio. Filed Mar. 27, 1920. Serial No. 130,294.

Rix

Particular description of goods.—A Water-Softener.
Claims use since Mar. 20, 1920.

149,799. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HUGO ROSENBERG, Freiburg, Germany. Filed Feb. 11, 1921. Serial No. 143,452.

CHELONIN

Particular description of goods.—Tuberculosis Vaccin.
Claims use since February, 1919.

149,800. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ULYSSES GILBERT RUFF, Jr., Philadelphia, Pa. Filed Aug. 4, 1921. Serial No. 151,381.

COLLIVER'S

Particular description of goods.—Salve for Skin Diseases.
Claims use since on or about June 1, 1911.

149,801. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) E. SCHMID COMPANY, Indianapolis, Ind. Filed Nov. 8, 1920. Serial No. 139,372.



Particular description of goods.—Tonsil Instruments, Headbands, Adenoid and Nasal Instruments, Mastoid Instruments, Eye Instruments, Minor-Operation Instruments, Resection and Amputation Knives, Veterinary Instruments, Chiropody Instruments, Cases for Knives, Dilators, Instrument Handles, Finger-Splints.
Claims use since Jan. 1, 1902.

149,802. (CLASS 39. CLOTHING.) SHERWOOD SHOE COMPANY, Rochester, N. Y. Filed July 13, 1921. Serial No. 150,337.



Particular description of goods.—Shoes Made of Leather, Canvas, Rubber, Fabric, or a Combination of the Same.
Claims use since 1902.

149,803. (CLASS 15. OILS AND GREASES.) THE STAR OIL COMPANY, Chicago, Ill. Filed Aug. 26, 1921. Serial No. 152,216.

LINCOLN

Particular description of goods.—Lubricating Oils and Greases.
Claims use since 1914.

149,804. (CLASS 39. CLOTHING.) THE SUPERIOR UNDERWEAR COMPANY, Piqua, Ohio. Filed May 21, 1921. Serial No. 148,037.

Superior

Particular description of goods.—Union-Suits, Combination-Suits, Undershirts, and Underdrawers Made of Both Knitted and Woven Goods.
Claims use since on or about July 23, 1902.

149,805. (CLASS 39. CLOTHING.) M. SWARTTE & SONS, Philadelphia, Pa. Filed Nov. 22, 1920. Serial No. 139,094.

GUDWARE

Particular description of goods.—Men's and Young Men's Coats, Vests, Trousers, and Overcoats.
Claims use since Nov. 1, 1920.

149,806. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CHARLES H. WEBBER, Portland, Oreg. Filed Dec. 7, 1920. Serial No. 140,751.

REDIMADE

Particular description of goods.—Sectional Garages and Sectional Houses.
Claims use since Oct. 1, 1919.

149,807. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAMSON & BRIGHT, Chuckey, Tenn. Filed Feb. 3, 1920. Serial No. 127,951.

BLACK-LAX

Particular description of goods.—A Laxative Medicine.
Claims use since June 1, 1919.

INTERNATIONAL TRADE-MARK REGISTRATIONS

DECEMBER 20, 1921.

The following International Registrations have been received from the Bureau at Habana and have been placed upon the Register in accordance with the provisions of section 1 (a) of the act of March 19, 1920.

149,808. International Registration No. 544 of September 25, 1921. Registered in Cuba on May 26, 1915, No. 30,834. Proprietor: SOCIEDAD ANÓNIMA "ROMEO Y JULIETA," FÁBRICA DE TABACOS. Address: Belascoaín No. 2ª y 2ª, Habana, Cuba.



Merchandise to which the mark is affixed.—Cigars.

149,809. International Registration No. 551 of October 25, 1921. Registered in Cuba on November 15, 1916, No. 32,230. Proprietor: ARELLANO QUERALT, S. EN C. Address: San Miguel No. 179, Habana, Cuba.

Xnon

Merchandise to which the mark is affixed.—Corsets, garters for corsets, garters, girdles, bust-confiners, bust-reducers, bust-supporters, bust-ruffles, bust-forms, and everything relating to corsetry in general.

LABELS

REGISTERED DECEMBER 20, 1921.

23,787.—*Title:* "CAMEL BRAND." (For Toilet-Paper.) APEX PAPER MANUFACTURING COMPANY, INC., New Orleans, La. Filed July 16, 1921.

23,788.—*Title:* "SUPERIOR SERVICE." (For Paper Toweling.) APEX PAPER MANUFACTURING COMPANY, INC., New Orleans, La. Filed July 16, 1921.

23,789.—*Title:* "LION BRAND." (For Toilet-Paper.) APEX PAPER MANUFACTURING COMPANY, INC., New Orleans, La. Filed July 16, 1921.

23,790.—*Title:* "KENO." (For Toilet-Paper.) APEX PAPER MANUFACTURING COMPANY, INC., New Orleans, La. Filed July 16, 1921.

23,791.—*Title:* "THE TINY TOT SOAP." (For Soap.) BAUER & BLACK, Chicago, Ill. Filed August 15, 1921.

23,792.—*Title:* "DATED COFFEE." (For Coffee.) REUBEN Y. BERNHART, Toledo, Ohio. Filed October 17, 1921.

23,793.—*Title:* "CLOVER LEAF BAKERY." (For Bread.) ALFRED S. BEVILLE, Jacksonville, Fla. Filed July 29, 1921.

23,794.—*Title:* "EXTRA SELECT DIAMOND BRAND." (For Boxes of Oranges.) THE BOURK-DONALDSON-TAYLOR FRUIT COMPANY, Denver, Colo. Filed October 17, 1921.

23,795.—*Title:* "B. C. C. B." (For Caps, Hats, and Bonnets, and Containers Therefor.) MARY V. BRUNK, Kansas City, Mo. Filed April 23, 1921.

23,796.—*Title:* "LADY ESTHER." (For Face-Powder.) SYMA COHEN, Chicago, Ill. Filed April 28, 1921.

23,797.—*Title:* "DAIRYMEN'S LEAGUE EVAPORATED MILK." (For Evaporated Milk.) DAIRYMEN'S LEAGUE CO-OPERATIVE ASSOCIATION, INC., Utica, N. Y. Filed July 30, 1921.

23,798.—*Title:* "DAIRYMEN'S LEAGUE BUTTER." (For Butter.) DAIRYMEN'S LEAGUE CO-OPERATIVE ASSOCIATION, INC., Utica, N. Y. Filed July 30, 1921.

23,799.—*Title:* "DAIRYMEN'S LEAGUE SWEETENED CONDENSED MILK." (For Condensed Milk.) DAIRYMEN'S LEAGUE CO-OPERATIVE ASSOCIATION, INC., Utica, N. Y. Filed August 20, 1921.

23,800.—*Title:* "FIRST NATIONAL BEAUTY COMPLEXION WAFERS." (For Packages Containing a Medicine for Treatment of Boils, Pimples, Blackheads, Etc., Due to Constipation.) FIRST NATIONAL PHARMACY, Lehighton, Pa. Filed September 10, 1921.

23,801.—*Title:* "PROFESSIONAL." (For Hair-Nets.) FRANKEL & SMITH, INC., Boston, Mass. Filed July 12, 1921.

23,802.—*Title:* "HANNAH'S TABLETS." (For Dyspepsia-Tablets.) P. J. HANNAH, San Francisco, Calif. Filed November 7, 1921.

23,803.—*Title:* "OZO WASHING POWDER." (For Receptacles Containing Ozo Washing-Powder.) B. HELLER & Co., Chicago, Ill. Filed March 24, 1921.

23,804.—*Title:* "GREEN & GREEN CHEEZ-IT CRACKERS." (For Cartons in Which Cheese Crackers are Placed.) THE GREEN AND GREEN COMPANY, Dayton, Ohio. Filed May 23, 1921.

23,805.—*Title:* "WEARBEST." (For Hair-Nets.) HOCHSCHILD CORPORATION, Chicago, Ill. Filed June 20, 1921.

23,806.—*Title:* "LINDSAY STRATHMORE." (For Pomegranates.) LINDSAY-STRATHMORE POMEGRANATE ASS'N, Lindsay, Calif. Filed November 8, 1921.

23,807.—*Title:* "RUBY RED." (For Pomegranates.) LINDSAY-STRATHMORE POMEGRANATE ASS'N, Lindsay, Calif. Filed November 8, 1921.

23,808.—*Title:* "COUVERLAIN." (For Guaranteed All-Wool Blankets.) R. H. MACY & Co. INC., New York, N. Y. Filed August 27, 1921.

23,809.—*Title:* "KNICKER KLOTH." (For Linen Cloth.) HENRY S. MCKEAG, Montclair, N. J. Filed September 13, 1921.

23,810.—*Title:* "NEW YORK SHEEP EXHIBITION CIGAR." (For Cigars.) H. & G. MENTENER, Albany, N. Y. Filed September 12, 1921.

23,811.—*Title:* "SQUARE DEAL JEWELERS." (For Watches, Jewelry, and Diamonds.) MILLER BROS., New Orleans, La. Filed November 4, 1921.

23,812.—*Title:* "FAMILY CUP-BOARD." (For Boxes Containing Candy.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed October 31, 1921.

23,813.—*Title:* "GREYSOLON." (For Boxes Containing Assorted Chocolates.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed October 31, 1921.

23,814.—*Title:* "SUNFLOWER." (For Oranges.) MUTUAL ORANGE DISTRIBUTORS, Redlands, Calif. Filed November 8, 1921.

23,815.—*Title:* "NECCO SWEETS." (For Candy.) NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass. Filed November 7, 1921.

23,816.—*Title:* "NUSS BUTTER CREAM SPECIALTIES." (For Cream Confections.) THE NUSS CONFECTIONERY CO., Cincinnati, Ohio. Filed August 27, 1921.

23,817.—*Title:* "NUSS BUTTER CREAM SPECIALTIES." (For Cream Confections.) THE NUSS CONFECTIONERY CO., Cincinnati, Ohio. Filed August 27, 1921.

23,818.—*Title:* "NUSS BUTTER CREAM SPECIALTIES." (For Cream Confections.) THE NUSS CONFECTIONERY CO., Cincinnati, Ohio. Filed August 27, 1921.

23,819.—*Title:* "PENN." (For Receptacles Containing Brass Goods.) PENN BRASS MANUFACTURING CO., Cleveland, Ohio. Filed April 23, 1921.

23,820.—*Title:* "TRI A MINT." (For Candy Confections.) EDWARD C. PHILIPPS, Webster Groves, Mo. Filed September 12, 1921.

23,821.—*Title:* "IMPORTED LIPTAUER." (For Brindza Cheese, Otherwise Known as Imported Liptauer or Sheep-Milk Cheese.) THE PURITY CREAM CHEESE COMPANY, Cleveland, Ohio. Filed July 15, 1921.

23,822.—*Title:* "GOODY-MINTS CANDY." (For Candy.) GEORGE L. RASSIAS, Brooklyn, N. Y. Filed October 26, 1921.

23,823.—*Title:* "DEAR CUSTOMER: HERE ARE SUGGESTIONS FOR THE CARE OF REAL SILK HOSE." (For Containers for Hosiery.) REAL SILK HOSIERY MILLS, Indianapolis, Ind. Filed October 31, 1921.

23,824.—*Title:* "DEAR CUSTOMER: HERE ARE SUGGESTIONS FOR THE CARE OF REAL SILK FASHIONED HOSIERY." (For Containers for Hosiery.) REAL SILK HOSIERY MILLS, Indianapolis, Ind. Filed October 31, 1921.

23,825.—*Title:* "C. O. D." (For Containers for Hosiery.) REAL SILK HOSIERY MILLS, Indianapolis, Ind. Filed November 4, 1921.

23,826.—*Title:* "FEDECO." (For Containers for Hair-Tonic.) EDWARD D. ROBINSON, Baltimore, Md. Filed September 6, 1921.

23,827.—*Title:* "FEDECO." (For Containers for Cocoanut-Oil Shampoo.) EDWARD D. ROBINSON, Baltimore, Md. Filed September 6, 1921.

23,828.—*Title:* "HARVEST QUEEN." (For Bread.) SANITARY PAPER CO., Kalamazoo, Mich. Filed October 31, 1921.

23,829.—*Title:* "PEP VINO." (For Bottle as a General Tonic.) SCRANTON DRUG MFG. CO., Scranton, Pa. Filed April 2, 1921.

23,830.—*Title:* "KNICKERETTE." (For a Sanitary Bloomer-Protector. THE SOLVOS COMPANY, Chicago, Ill. Filed November 2, 1921.

23,831.—*Title:* "YOU'LL DO BETTER PAINTING WITH SCO-CO." (For Dry Paints, Paste Paints and Ready-Mixed Paints.) THE SOUTHERN COTTON OIL COMPANY, Jersey City, N. J. Filed November 4, 1921.

23,832.—*Title:* "MADE TO WEAR WHERE THE WEAR IS HARDEST." (For Dry Paints, Paste Paints, and Ready-Mixed Paints.) THE SOUTHERN COTTON OIL COMPANY, Jersey City, N. J. Filed November 4, 1921.

23,833.—*Title:* "THE HOUSE THAT JACK BUILT." (For Boxes Containing Doll-Houses.) STOLL & EDWARDS CO. INC., New York, N. Y. Filed October 15, 1921.

23,834.—*Title:* "NUPROCESS." (For Moss for Upholstering Purposes.) HENRY WILHELM CO., Pittsburgh, Pa. Filed October 6, 1921.

23,835.—*Title:* "LUXFIBRE." (For Moss for Upholstering Purposes.) HENRY WILHELM CO., Pittsburgh, Pa. Filed October 6, 1921.

PRINTS

REGISTERED DECEMBER 20, 1921.

5,878.—*Title:* "FRANK BACON TAKES TO OMAR." (For Advertising Purposes for Cigarettes.) THE AMERICAN TOBACCO COMPANY, New York, N. Y. Filed August 22, 1921.

5,879.—*Title:* "'TOM' MASSON HOLDING AN OMAR." (For Advertising Purposes for Cigarettes.) THE AMERICAN TOBACCO COMPANY, New York, N. Y. Filed August 22, 1921.

5,880.—*Title:* "RAYMOND HITCHCOCK'S HAND HOLDING AN OMAR." (For Advertising Purposes for Cigarettes.) THE AMERICAN TOBACCO COMPANY, New York, N. Y. Filed August 22, 1921.

5,881.—*Title:* "WILLIAM S. HART HOLDS AN OMAR." (For Advertising Purposes for Cigarettes.) THE AMERICAN TOBACCO COMPANY, New York, N. Y. Filed August 22, 1921.

5,882.—*Title:* "LEO DITRICHSTEIN HOLDS AN OMAR." (For Advertising Purposes for Cigarettes.) THE AMERICAN TOBACCO COMPANY, New York, N. Y. Filed August 22, 1921.

5,883.—*Title:* "LEON ERROLL HOLDS HIS OMAR LIKE THIS." (For Advertising Purposes for Cigarettes.) THE AMERICAN TOBACCO COMPANY, New York, N. Y. Filed August 22, 1921.

5,884.—*Title:* "LAYERWOOD." (For Advertising Purposes for Plywood and Wood Veneers.) JOHN BEMER CROSBY, Lake Bluff, Ill. Filed August 27, 1921.

5,885.—*Title:* "THE PARRISH POSTER." (For Advertising Purposes for Jell-O, a Dessert Preparation.) THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Filed November 2, 1921.

5,886.—*Title:* "THE RANCH SCENE." (For Advertising Purposes for Jell-O, a Dessert Preparation.) THE THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. November 2, 1921.

5,887.—*Title:* "THE BEAR SCENE." (For Advertising Purposes for Jell-O, a Dessert Preparation.) THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Filed November 2, 1921.

5,888.—*Title:* "THE NEW ENGLAND SCENE." (For Advertising Purposes for Jell-O, a Dessert Preparation.) THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Filed November 2, 1921.

5,889.—*Title:* "THE CROWNING ACHIEVEMENT OF AMERICA'S OLDEST AUTOMOBILE MANUFACTURERS." (For Advertising Purposes for Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed September 17, 1921.

5,890.—*Title:* "THEY NEVER TIRE OF CORN FLAKES WHEN YOU GIVE THEM—KELLOGG'S." (For Advertising Purposes for Kellogg's Toasted Corn Flakes.) KELLOGG TOASTED CORN FLAKE CO., Battle Creek, Mich. Filed November 3, 1921.

5,891.—*Title:* "CORNS HURT." (For Advertising Purposes for Also Liquid, a Preparation to Remove Corns.) ALFRED M. KRONBERGER, Boston, Mass. Filed August 24, 1921.

5,892.—*Title:* "POWERFUL, DEPENDABLE, WORTHY OF THE NAME." (For Advertising Purposes for Columbia Storage Batteries.) NATIONAL CARBON CO., INC., Cleveland, Ohio. Filed June 22, 1921.

5,893.—*Title:* "YES, SIR, YOU'LL SAY A PIPE PACKED WITH P. A. HAS 'EM ALL BACKED CLEAR OFF THE MAP!" (For Advertising Purposes for Smoking-Tobacco.) R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Filed October 31, 1921.

5,894.—*Title:* "AND, SAY—WHEN THAT P. A. FLAVOR GETS-TO-PURRING TO YOUR SMOKE-APPETITE!" (For Advertising Purposes for Smoking-Tobacco.) R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Filed October 31, 1921.

5,895.—*Title:* "GET A PIPE! GET SOME P. A.!—AND GET YOURS!" (For Advertising Purposes for Smoking-Tobacco.) R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Filed October 31, 1921.

5,896.—*Title:* "FIRST THING YOU DO NEXT—." (For Advertising Purposes for Smoking-Tobacco.) R. J. REYNOLDS TOBACCO COMPANY, Winston Salem, N. C. Filed October 31, 1921.

5,897.—*Title:* "DON'T LET YOUR TIRES GO THIS WAY." (For Advertising Purposes for Tire Pressure-Gages.) A. SCHRADER'S SON, INCORPORATED, New York, N. Y. Filed September 21, 1921.

5,898.—*Title:* "THIRSTY FIBRE." (For Advertising Purposes for Paper Towels and Paper Napkins.) SCOTT PAPER COMPANY, Chester, Pa. Filed December 30, 1920.

5,899.—*Title:* "FRESHER BY A DAY." (For Advertising Purposes for Milk.) SCOTT-POWELL DAIRIES INC., Philadelphia, Pa. Filed July 12, 1921.

5,900.—*Title:* "'A RARE PRUNE' CUPERTINO BRAND." (For Advertising Purposes for Prunes.) J. D. WILLIAMS, Cupertino, Calif. Filed September 16, 1921.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

U. S. Circuit Court of Appeals—Second Circuit.

BEATTIE MFG. CO. *v.* SMITH *et al.*

Decided June 23, 1921.

[275 Fed. Rep., 164.]

1. PATENTS—No. 713,230, FOR INTURNING EDGES OF COLLAR-BLANKS, HELD VALID AND INFRINGED.

Maitland and Beattie patent, No. 713,230, for an improved machine for inturning the edges of fabric blanks in the manufacture of collars and cuffs, *Held* valid and infringed, it being a decided improvement in the art, not anticipated by anything in the prior art.

2. SAME—No. 972,272, FOR SEPARATE HEATING OF BED-PLATE INFOLDERS IN COLLAR-FOLDING MACHINES, HELD INFRINGED.

Smith patent, No. 972,272, for the separate heating of the bed-plate infolders in machines for folding collar and cuff blanks, *Held* infringed, and the evidence insufficient to show that the infringer's predecessor in business employed similar heating units in such folders prior to the application for such patent.

3. SAME—No. 972,320, FOR EXPANDING AND CONTRACTING DIES IN COLLAR-FOLDING MACHINES, HELD VALID.

Beattie patent, No. 972,320, for automatically expanding and contracting the die in collar-folding machines, *Held* valid, as indicating invention.

4. SAME—No. 972,495, FOR INCORPORATING HEATING RESISTANCE-COILS IN FOLDERS OF COLLAR-FOLDING MACHINES, HELD VALID.

Beattie patent, No. 972,495, for incorporating heating resistance-coils in the folders of collar-folding machines, *Held* valid, there being nothing anticipatory in the prior art.

5. SAME—No. 1,071,677, FOR PRODUCING CIRCULAR MOVEMENT OF INFOLDERS IN COLLAR-FOLDING MACHINES, HELD VALID.

Maitland and Beattie patent, No. 1,071,677, for moving the infolders of collar-folding machines in a circular path, *Held* valid and infringed.

6. SAME—MERE LACHES WILL NOT BAR RELIEF ON FINAL HEARING IN INFRINGEMENT SUIT.

Though knowledge of the infringement of a patent and long-continued acquiescence therein may be fatal on a motion for a preliminary injunction, it will not prevent the court from granting such relief as may be just and equitable on final hearing; mere laches, unaccompanied by circumstances amounting to an equitable estoppel, not shutting out a party from all relief in a court of equity.

APPEAL from the District Court of the United States for the Northern District of New York.

Suit by the Beattie Manufacturing Company against Margaret H. Smith, trading and doing business under the name and style of the E. H. Brown Manufacturing Company, and another, for infringement of patents. Decree for complainant (266 Fed., 701) and defendants appeal. Affirmed.

Mr. Harry Hayward Allen (*Mr. Samuel S. Watson* of counsel) for Margaret Heald Smith.

Mr. Frank C. Curtis for appellee.

Before WARD, HOUGH, and MANTON, Circuit Judges.

MANTON, *Cir. J.*:

This suit is for infringement of patents Nos. 713,230, 972,272, 972,320, 972,495, and 1,071,677. They all relate to folding-machines. Each patent was sustained, and the appellants were held to infringe, in the court below. We shall treat each patent separately and in the order as above.

[1] Patent No. 713,230 was issued on November 11, 1902, to John Maitland and William J. Beattie, the appellee's assignors, and is for a machine for folding collar-blanks. The invention relates to improvements in the machine for inturning the edges of fabric blanks in the manufacture of collars and cuffs, and particularly the style of machine used for folding collars. The object of the invention is to simplify the construction of such a machine and to facilitate the adoption of the same to different sizes and styles of blank. Claim 3 only is in issue. It provides as follows:

(3) In a folding machine, former mechanism comprising in part a former-plate and a former-block split part way of its length, one member thereof being bent to conform to the edge of said former-plate and secured thereto, and the other member being provided with means for securing the same to a supporting member of said former mechanism, substantially as described.

This feature of the machine is for the supporting of the thin sheet-metal die-plate or former-plate which determines the shape of the folder-blank, and over the edge of which the edge of the blank is inturned by the folders. The former-plate is a very thin sheet metal, and requires an immediate support to which it is attached. It is constructed so that the support can be readily mounted upon the die-head or former-head of the machine. The die-head is provided with a slide-way or seat, which is adapted to interchangeably receive and support the former-blocks for all forms of former-plate. The former-plates must differ in outline according to the blank to be folded. The former-block which is attached to the die-head must always be the same in order to be interchangeable with the other former-blocks, and the portion of the former-block to which

the thin former-plate is directly attached must conform generally to the form of the edge of the particular thin former-plate. The former-plates thus adapted for folding the bands of collars are narrow and very irregular in outline, and the task was to machine a solid piece of metal onto a former-block of such necessary complex shape that one portion of it would be of standard form interchangeable with other former-blocks in attachment to the die-head. The portion to which the irregular former-plate is directly attached must conform to the shape of the thin former-plate. This was a difficult and expensive task, but the inventor accomplished this by splitting the former-block partway of its length, having one of the members thus formed left in its original straight form, while the other member was made so as to readily bend to conform to the shape of the former-plate which is to be attached to it. This was done by bending this member of the split former-block without machine work upon it. The result is that all the former-blocks have the members whereby they are attached to the die-head of the same shape and dimensions, while the other members to which the thin former-plates are attached can be made of different forms, in each case corresponding to the shape of the former-plate to be attached thereto. The art shows that for many years the makers of folding-machines had felt obliged to separately fashion the whole folder-block for each particular form of folder-plate. This consumed time and required labor and expense. The inventor has overcome this, thus eliminating a great deal of loss of time and labor. These machines are equipped from time to time with differently shaped templets corresponding to the shapes of the respective blanks to be folded in making different styles of collars. The thin sheet-metal templet-plates riveted to the heavy metal blocks, which blocks in turn are removably mounted upon the die head, which swings outward and from the bed of the machine, make possible the interchangeability of templets varying greatly in shape. If a solid block be employed to conform to the shape of and support each of these different irregular forms of templets, these different supporting blocks would have to be attached to different parts of the die-head. By employing a split former-block, the inventor was able to accomplish what had been previously considered impossible. He did this by attaching the different folder-blocks interchangeably always to the same points of the die-head, while also having the folder-block conform in each case to the particular form of the templet plate employed, no matter how irregular its shape.

There is infringement in the manufacture and use of appellants' machine. This is beyond question. What was accomplished was a decided improvement in the art. Nothing in the prior art anticipated it.

We think this patent is valid and infringed.

[2] Patent No. 972,272 is dated October 11, 1910. The application was filed February 14, 1908. The inventor is George W. Smith, appellee's assignor. It is for a folding-machine. It relates to machines for folding collar and cuff blanks. The object of the invention was to construct a folding-machine in which the bed-plate infolders will be heated by electricity, and that one operation of the foot-pedal will cause the head of the machine carrying the die to press down upon the goods, and cause the infolders to fold the edges of the goods over the die, and also press the bed of the machine forward against the infolders, thus pressing the fold smoothly and uniformly over the edges of the die while the die remains within the fold. By removing the pressure from the foot pedal, the infolder is moved backward from over the die, and the head of the press carrying the die will move upward from the bed of the press, leaving the operator the free use of both hands for handling the goods. The prior art shows no disclosure of separate means for heating the bed and for heating the infolders. Claims 1, 2, and 7 are involved, and reads as follows:

(1) In a folding machine, a rigid frame, a bed-plate movable within the frame, means within the bed-plate for heating the same, a die-plate adapted to coöperate with the bed-plate for clamping between them a blank to be folded, slidable infolders for folding the edges of a blank over the die-plate, each folder being provided with means for the insertion of heating means, means for simultaneously operating the infolders, and means for pressing the bed-plate and die-plate into coöperative relation, turning the edges of the blank over said die, and forcing said bed and die against the infolders to press the turned edges of the blank.

(2) In a folding machine, a rigid frame, a bed-plate movable within said frame, means for operating the bed-plate, means within the bed-plate for heating the same, a die-plate adapted to coöperate with the bed-plate for holding a blank on the bed-plate, infolders for turning the edges of the blank over the die-plate, each infolder being provided with means for the insertion of heating means independent of the bed-plate heating means.

(7) In a folding machine, a rigid frame provided with a bed-plate adapted to be heated, a movable die arranged to clamp blanks to be folded on the upper surface of said bed-plate, infolders adapted to turn the edges of said blank over the edge of said die, and means for producing pressure between the bed-plate and the die and infolders, each of said infolders being provided with means for the insertion of heating means separate of the bed-plate heating means.

The invention permits the infolders to be more highly heated than the bed. This is desirable. Having the infolding elements heated to the highest temperature which can be employed without scorching the goods is very desirable. In the folding operation the blank is in contact with the bed for a longer period than it is with the infolders, because the blank must be laid upon the bed before the infolders move in over the edges of the blank, and cannot be removed from the bed until after the infolders have been fully withdrawn. It would therefore be safe to have the infolders more highly heated than the bed, because they are in contact with the blank for less time than the blank is in contact with the bed. The claims are not limited to any particular form of heating mechanism, electric or otherwise. The testimony shows that, prior to the date of the application of this patent, Simplex heating units had been commonly known, and could be obtained from the Simplex Heating Company of various sizes, as might be desired. They comprised each a casting hollowed out to receive the electric resistance-coils embedded in a bed of insulating material, and these units could be mounted by means of bolts upon a desired part of the

machine. The patent provides in its specifications that the underside of the infolders have hollow spaces adapted to receive suitable heating means. A box is provided attached to the underside of the bed-plate, in which are placed suitable resistance-coils for generating heat by electricity. And it is immaterial whether the box is of hollow casting of an electric heating unit such as the Simplex heating unit, or whether it is a box forming a chamber into which a complete electric heating unit is installed. The electric heating mechanism in the bed of the appellant's top machine comprises an electric resistance-coil placed in a recess formed in the underside of the bed-plate and closed by a bottom plate which is clamped to the bed-plate. The ends of the coil project down through the bottom plate, where they are connected with the circuit wires. Thus the bed forms the box or head-plate for the coil instead of having the coil embedded in a separate and complete heating unit. This falls within the claims which provide "means within the bed-plate for heating the same."

We think the appellant's structure falls within the description of each of the claims and infringes the same.

We agree with the court below that the effort to show that one Brown, the predecessor in the business of the appellant, Margaret Heald, did in 1902 or 1903 employ Simplex or similar heating units in the folders of a folding machine, is not satisfactory to establish that fact. The correspondence indicates that it was not until 1908 that Brown learned how to make such a heating unit satisfactorily.

[3] Patent No. 972,820 is dated October 11, 1910, and was issued on the application filed on May 21, 1908. The inventor is William J. Beattie, the assignor of the appellee. This invention relates to two machines of the same type, for folding collar and cuff blanks. The object of the invention, as given by the patentee, is to construct a machine the folder-plates of which will be heated, and the folding and pressing of the goods will be over the edge of the die, while the die is upon the blank on the bed-plate of the machine. Claims 6 and 8 are involved, and are as follows:

(6) In a machine for folding collar and cuff blanks, a vertically movable bed-plate, a die of thin sheet material comprising a fixed section and a slidable section, said die adapted to clamp blanks upon the bed-plate, slidable folder plates adapted to fold the edges of said blanks over the edges of said die, means for raising the bed-plate to press the folded blanks against the folder plates, means for supporting and lowering said die, and connections operated by said means for moving the slidable die section endwise to lengthen the die as said die is lowered.

(8) In a machine for folding collar and cuff blanks, a die therefor of thin sheet material formed of a plurality of sections, one of which is slidable longitudinally of the die, a swinging die-head supporting said die, means engaging said slidable die section to move the same, and a connection attached to said moving means and hinged to a fixed part of the machine eccentric to the axis of oscillation of the die-head.

The construction here is for automatically expanding and contracting a partly-collapsible die. The new improvement in the art accomplishes a very material saving of time in the folding operation. By automatically expanding the die to full dimensions by the downward movement of the die into engagement with the blank on the bed, thus permitting the die to remain expanded throughout for the folding and pressing operations, and automatically contracting one end of the die by the upward movement of the die as it rises from the bed with the folded and pressed blank retained upon the die-plates, the inventor accomplishes the improvement.

The movement of the movable member of the templet is accomplished in one direction by a swing and in the opposite direction whereby the templet is expanded to maximum dimensions by means of a cam actuated by a link or rod pivoted upon the frame of the machine eccentrically to the axis of oscillation of the die-head. The appellant infringes this invention, but it is sought to escape infringement by reference to the prior-art patents, in which eccentric mechanism has been employed to expand or contract a collapsible die or templet for the purpose of withdrawing the templet from the folded edges of the blank before they are pressed. The prior art does not suggest expanding the die as it is lowered upon the bed, keeping it expanded not only during the pressing operation as well, but using it as a means for lifting the blank from the bed, and then contracting the die to permit a removal therefrom of the folded and pressed blank. This is accomplished by the present patent. The best reference referred to is Fenwick's patent, No. 688,460. The vital difference is that in the prior-art patents the die contracting and expanding mechanism was so constructed as to contract the movable templet plate or plates out from the infolding edges of the blank before those infolding edges were pressed, and in none of these do they show a construction employing a movable templet-plate which remains within the folded edge of the blank during the pressing operation, and then serves to raise the folded and pressed blank from the bed, and therefore is automatically withdrawn from the infolded edge of the blank to release the blank. In this respect, the improvement is new. The fact that these advantages seem to be much appreciated by the trade, and that this new method of folding has rendered obselete the prior method of collapsing the die before the folding operation, is strong evidence of an advance in the art, and we think indicates invention.

[4] Patent No. 972,495 is dated October 11, 1912, and was issued and granted to W. J. Beattie, the assignor of the appellee, on an application filed August 15, 1908. It relates to machines for folding collar and cuff blanks. The object of the invention was to construct a folding-machine, the infolders of which will be heated, and the folding and pressing of the goods will be over the edges of the die while the die is upon the blank on the bed of the machine. This patent relates to the Smith patent, No. 972,272, because it has to do with the most practical means for incorporating the heating resistance-coils in the folder. It was found that the Simplex heating units had to be made with thick castings, and that they were slow in conducting the heat to thin sheet-metal plates mounted on the infolder-blocks. The problem was to make the folder itself the housing for the resistance-coils instead of incorporating the coils in a separate complete unit to be attached to the folder-block. By dividing the folder-block into two parts, separately screwed or bolted together, one or both of the members thus formed was hollowed out forming, between the members, a chamber. The coil was mounted within this and projected out from beneath the two block members. Thus the inventor accomplished this problem. Claim 1 is involved, and reads as follows:

(1) In a machine for folding collar and cuff blanks, a heated bed-plate, a die adapted to press blanks upon said bed-plate, infolders adapted to move inwardly and fold the edges of the blanks over said die, each of said infolders being chambered and formed in two parts separably connected together, and an infolder plate attached to one of said parts, electric heating means within said chambers adapted to be supplied with current by electric wires from without, whereby the infolder plate of each infolder may be independently heated, means for moving said infolders to fold blanks over the die, and means for pressing the said blanks between the heated bed-plate and the folder-plates.

In appellant's machine we find each infolder-blank comprising a casting hollowed out on its underside, the thin bottom plates to complete the closing of the chamber for the heating-coil. The bottom member of the folder-block is thinner than the bot-

tom member of the folder-block shown in this patent, but it has in the appellee's device the appellant's two members complete—the chamber which receives the heating-coils in substantially the same manner called for by the claim. There is a difference in the form of the two members of the folder-block by the fact that the terminals of the coils are led out from between the block members at the end instead of at the side of the folder-block. But this does not avoid the claim of the patent in suit. We find nothing in the prior art which anticipated what was here accomplished.

[5] Patent No. 1,071,677 was dated August 26, 1913. It is on an application filed by Maitland and Beattie, appellee's assignors, on August 18, 1905. It relates to an improvement in a machine for folding collar-blanks, and consists of a novel construction and combination of parts. The invention relates to automatic and power machines as distinguished from hand-machines. It includes a bed and means for folding certain sides of a collar or cuff blank on one of the plain surfaces of the bed and the other parts on the under surface of the bed, whereby a much narrower blank, such as is used for the blanks of some collars, can be folded than is possible with a folding-machine which folds all sides of a blank simultaneously. The edges of the fabric blanks are inturned or folded over the former-plates by means of folder-plates movable to and fro on the surface of the bed, after which the former-plates movable to and fro on the head, commonly called folder-heads, withdraw from the folders, and the folders press between the folder-plates and the body to fold and press the edges of the blanks; the operation of the former or folder plates being the same as that of hand-machines formerly used. Claims 8 and 9 are involved, and are as follows:

(8) In a folding machine, the combination with two folder-plate sections, on one side of the machine, provided with a slide connection extending lengthwise of the plate sections, of a single actuating crank connected by a close-fitting connection with each section, whereby a circular motion is imparted to the plate sections, and means for operating the cranks, substantially as described.

(9) In a folding machine, the combination with two folder-plates adapted to fold one side of a blank and portions of two other and oppositely disposed sides, of a slide-connection between the plates extending lengthwise of their neighboring parts and transversely of the other parts which are adapted to fold portions of the opposite sides of the blank, a plate-actuating crank connected by a close-fitting connection with each of such folder-plates, whereby a circular motion is imparted to the plate sections, and means for operating the cranks, substantially as described.

By moving the infolder in a circular or arcuate path, the infolders at a corner of the collar can be overlapped in any desired direction and at any desired angle of one side edge of the blank with respect to the inbearing end edge of the blank. With the circular movement of the inventor's infolder, the infolder can be moved through an arc of ninety degrees, and, in case of an acute angle corner in a blank, the throw of the eccentric can be eliminated so that the last folded edge on the side or end of the blank, as it may be, is not thrown out beyond the outer edge of the blank. This shows novel construction that is made within the claims. The crank for each folder exercises, through the sliding connection, a controlling and guiding effect upon the other folder in accomplishing the circular movement. There is nothing in the prior art which shows such a relationship or result, nor is such a result accomplished. The principal prior patent relied upon is Fenwick's, No. 688,462. But Fenwick provides for a movement in two straight lines, one at right angles to the other, while the very essence of the construction set forth in the patentee's claim here is the production of a circular movement. The claims make this statement. There are no equivalents between the two mechanical devices provided for in this patent and in Fenwick's. They do not accomplish the same result, because the machine of the patent in suit produces a circular movement of the infolders, while the essential movement of the Fenwick patent is two straight-line movements at right angles to the other, or an L-shaped movement. Nor do they operate in the same manner. In producing the curved movement of the machine in the patent in suit, the eccentric guides the infolders along the curved path, while in the Fenwick machine the cranks have no guiding function with respect to the infolder, but merely push them inwardly and outwardly.

We think as to each of the patents in suit the appellee is the sole owner thereof, and that the appellant infringes the claims of each of the patents sued on.

[6] A defense of laches is interposed. Mere laches, unaccompanied by circumstances which amount to an equitable estoppel, will not shut out a party from all relief in a court of equity. On an application for a preliminary injunction, knowledge of the infringement and long-continued acquiescence therein may be fatal on a motion for such an injunction. However, on final hearing, it will not prevent the court from granting such relief as may be just and equitable. (*Taylor et al. v. Sawyer Spindle Co.*, 75 Fed., 801; 22 C. C. A., 208.) There is no testimony in this record which justifies the claim that the appellee is guilty of any laches which would justify a court of equity refusing to grant the relief prayed for in this bill of complaint.

We think these various patents have done much to advance the art, and the claims which we have found are infringed should be accorded the full rights of monopoly which were granted by the issuance of the patent in each instance.

Decree affirmed.

ADJUDICATED PATENTS.

(U. S. D. C. Mich.) The Johnson patent, No. 814,786, for improvement in talking-machines, claim 42 *Held* valid and infringed. *Victor Talking Mach. Co.* v. *Cheney Talking Mach. Co.*, 275 Fed. Rep., 444.

(U. S. D. C. N. Y.) The Johnson patent, No. 814,786, for improvement in talking-machines, claims 2 and 42 *Held* valid and infringed; claim 36 *Held* invalid for want of invention. *Victor Talking Mach. Co.* v. *John Wanamaker, New York*, 275 Fed. Rep., 448.

(U. S. D. C. Mich.) The Johnson patent, No. 814,848, for amplifying-horn for talking-machines, claims 7 and 11 *Held* valid, but not infringed. *Victor Talking Mach. Co.* v. *Cheney Talking Mach. Co.*, 275 Fed. Rep., 444.

(U. S. D. C. N. Y.) The Johnson patent, No. 814,848, for amplifying-horn for talking-machines, claims 7 and 11 *Held* not anticipated and infringed. *Victor Talking Mach. Co.* v. *John Wanamaker, New York*, 275 Fed. Rep., 448.

Patents Nos. 1,401,119 to 1,401,947.

THE

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Prints	4	No. 5,901 to No. 5,904, inclusive.
Reissues	4	No. 15,263 to No. 15,266, inclusive.
Total	1303	

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., December 7, 1921.

Perfection Mfg. Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Haskins Bros. & Company, corner of Prospect and Grand streets, Sioux City, Iowa, for registration of a trade-mark and trade-mark registered August 22, 1916, No. 112,216, to Perfection Mfg. Co., 434 Land Title Building, Philadelphia, Pa., and a notice of such declaration sent by registered mail to Perfection Mfg. Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Perfection Mfg. Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., December 10, 1921.

The Parker Supply Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Massasoit Manufacturing Company, 156 Pocasset Street, Fall River, Mass., for registration of a trade-mark and trade-mark registered August 8, 1911, No. 83,004, to the Parker Supply Co., 250 Devonshire Street, Boston, Mass., and because of prima facie evidence in the record to the effect that the Parker Supply Co. is no longer in existence notice is hereby given that unless said the Parker Supply Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Important Information.

In ordering manuscript copies much time will be saved if the order states specifically what is desired, viz:

Application as originally filed. (Petition, specification, oath, and drawings as received.) Application as amended. (Petition, specification, oath, and drawings with amendments entered.)

Application as allowed. (Petition, specification, oath, and drawings as passed by the Examiner for issue.)

Original application. (Facsimile petition, specification, oath, and drawings at present time.)

Specification as originally filed. (As received in Office.)

Specification as amended. (With amendments entered.)

Specification as allowed. (As passed by the Examiner for issue.)

Original specification. (Facsimile at present time.)

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File-wrapper, contents, and drawings. (File-wrapper and all of the contents of record, including photoprints of any tracings, exhibits, or prints within the file-wrapper. In pending cases, photoprints of the pending drawings only, omitting any canceled. If patented, copy of the specification and drawings of the patent being furnished, photoprints are not made of the original drawings unless specially ordered. If canceled drawings are wanted, they must also be specially ordered.)

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NOTICE—DESIGN PATENTS.

When an application for a design patent is found allowable, the patent will be granted for the term asked in the application papers unless specific request has been made for notice prior to allowance so that the term may be extended. Hereafter the Office will delay allowance and notify the applicant ONLY in cases where a specific request is filed.

Condition of Applications Under Examination at Close of Business, December 17, 1921.

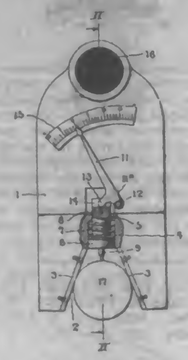
Room No.	Divisions, Examiners, and subjects of inventions. (Oldest new case, Dec. 6. oldest amended, Apr. 1.)	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	July 18	Aug. 2	795
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Feb. 16	Apr. 8	1,758
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Apr. 21	Feb. 21	953
234	4. MERRITT, A. D., Conveyers; Conveyers, Fluid-Current; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Feb. 11	July 7	1,760
167	5. MACNAB, J. F., Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Feb. 24	Apr. 11	935
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substances Preparation.	May 11	Aug. 5	986
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes	Apr. 18	July 26	2,032
133	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Sept. 12	Nov. 17	504
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Jan. 10	Oct. 31	1,026
235	10. MITCHELL, T. H., Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	May 28	Oct. 7	1,140
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip and Whip Apparatus.	Aug. 29	July 27	467
322	12. PIERCE, P. P., Machine Elements	June 6	Oct. 1	1,080
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Jan. 6	Oct. 6	1,084
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Mar. 1	Sept. 16	858
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Dec. 6	Apr. 1	1,823
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Dec. 16	Mar. 3	1,795
307	17. RAFTER, G. S., Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Apr. 5	July 11	1,096
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Jan. 21	Feb. 16	1,916
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidrstats.	Jan. 18	May 4	1,060
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	June 13	July 16	1,607
212	21. THURBER, W. L., Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Apr. 5	Aug. 1	721
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making.	June 28	Sept. 30	547
217	23. GROESBECK, W. D., Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Feb. 12	July 21	842
144	24. DARBY, J. J., Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Feb. 26	July 21	1,117
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Sept. 19	Oct. 3	328
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	May 4	July 1	822
214	27. ANDERSON, L. S., Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	May 6	Aug. 2	1,618
225	28. BENSON, A. R., Internal-Combustion Engines	Feb. 12	May 20	1,655
147	30. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Apr. 6	Sept. 26	792
152	30. SULLIVAN, M. R., Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines.	May 23	Sept. 20	1,429
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Jan. 5	Feb. 23	1,991
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Feb. 16	Sept. 19	999
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	May 27	July 15	742
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	Sept. 22	Oct. 14	320
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	Sept. 29	Sept. 8	702
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	July 15	June 24	1,544
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers	Mar. 22	Apr. 4	1,034
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	June 18	June 20	1,277
220	39. COWLES, A. W., Fluid Pressure Regulators, Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Dec. 13	Mar. 11	2,086
373	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Jan. 17	Apr. 7	2,487
125	41. BROWN, J. L., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	June 24	July 12	850
114	42. CUTTING, H. G., Electrical Conduits and Housings; Electric Signaling; Electric Lamps	Feb. 4	June 21	1,614
362	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Feb. 2	Feb. 25	1,703
253	44. SHAFFER, C. H., Air-Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration Ships.	Mar. 8	Oct. 6	840
379	45. GILES, A. H., Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	May 28	Aug. 1	1,170
332	46. WOLCOTT, C. L., Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	May 2	June 30	1,214
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid Pressure Brake and Analogous Systems.	Apr. 6	July 11	1,240
118	48. ROPKE, O. B., Electricity, Conductors; Electricity, General Applications	Jan 4	Feb. 5	1,972
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, Jr.			
	Trade-Marks	July 7	Aug. 25	4,226
	Designs	May 2	May 3	2,365
	Labels and Prints	Nov. 23	Nov. 25	216

Total number of applications awaiting action, excluding Trade-Mark division, 59,393; Trade-Mark division, 6,907.

PATENTS

GRANTED DECEMBER 27, 1921.

1,401,119. DIAMETER-GAGE. ERIK H. ALDERSON, New York, N. Y., assignor to Carl E. Johansson, Eskilstuna, Sweden. Filed June 13, 1919. Serial No. 303,905. 2 Claims. (Cl. 33—178.)



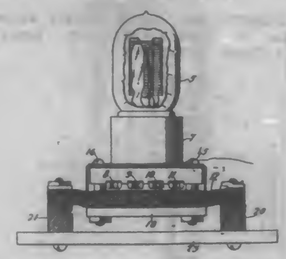
1. A device of the character described comprising, a body portion having an inwardly converging straight sided recess therein, a plunger mounted in the body at the inner end of the recess and normally urged outwardly, a pin carried by the plunger at its outer end and projecting into the recess, a hand pivoted in the body and having an arm engaging the plunger, and a scale adjacent the free end of the hand, whereby the insertion of an article into contact with the sides of the recess will cause it to contact with the pin and thereby move the plunger to actuate the hand for indicating the size of the article.

1,401,120. TICKET-HOLDER. PIERRE ALLARD, Maisonneuve, Quebec, Canada. Filed Sept. 10, 1920. Serial No. 409,326. 2 Claims. (Cl. 206—40.)



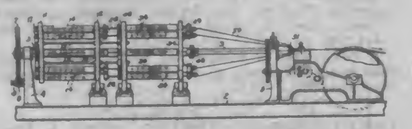
1. In a ticket holder of the character described in combination with the casing and cover; a ticket supporting plate; resilient means supporting said plate, said means consisting in a plurality of obliquely projecting flat springs, one of said springs being soldered to one end of said plate; and means integral with said resilient means adapted to engage said ticket supporting plate whereby the upward movement of said ticket supporting plate will be limited.

1,401,121. MOUNTING FOR VACUUM-TUBES. ROY M. ALLEN, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 24, 1918. Serial No. 236,398. 3 Claims. (Cl. 250—27.)



1. A repeater of electric currents having input and output terminals, and electrodes which maintain a relatively fixed space relation during the repeater operation and means for preventing external vibrations from appreciably changing the space relation of said electrodes.

1,401,122. WIRE-ROPE MACHINE. ALBIN E. ANDERSON, Oakmont, Pa., assignor of two-thirds to Eyvind M. Verner and James W. Macfarlane, Pittsburgh, Pa. Filed Apr. 17, 1920. Serial No. 374,597. 2 Claims. (Cl. 28—21.)

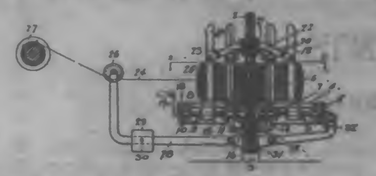


1. In a machine for making wire cable, the combination of a plurality of axially alined flier frames connected to rotate together, a plurality of bobbin frames journaled in each of said flier frames, the corresponding bobbin frames carried by the said flier frames being in alipement with each other, means associated with the journals of the bobbin frames carried by the first flier frame for twisting the individual wires into cable strands, means for conducting the said strands through the journals of the next succeeding bobbin frames and for twisting the wires from the bobbins of the second flier frame upon the said strands, and means for thereafter twisting the said strands into a complete cable.

1,401,123. ADJUSTABLE SWIFT. ALBIN E. ANDERSON, Oakmont, Pa. Filed Dec. 27, 1920. Serial No. 433,278. 5 Claims. (Cl. 242—84.)

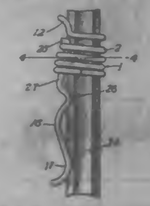
3. A swift comprising a rotatable support, screw shafts arranged radially on the said support and permanently geared to rotate together, and coil-supporting arms associated with the said screw shafts and adapted to be moved thereby, at least one of the said screw shafts having its

outer end formed for engagement with a wrench, whereby all of the said coil-supporting arms may be simultaneously



adjusted by applying a wrench to the end of one of the said screw shafts.

1,401,124. PENCIL-CLIP. GEORGE SEVERIN ADOLFSON, Philadelphia, Pa. Filed Apr. 11, 1921. Serial No. 463,475. 3 Claims. (Cl. 24—11.)

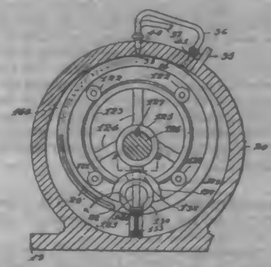


1. An article clip embodying a tongue and a coil surrounding a portion of the tongue, the tongue being provided intermediate its ends with an article-engaging shoulder forming an incline in that portion of the tongue which extends within the coil, the coil being expansible to ride along the incline, thereby to tighten the coil about an article, the shoulder rendering the free end of the tongue adjustable with respect to an article, independently of that portion of the tongue which forms the incline.

1,401,125. HALOGENATION OF ANTHRAQUINONE DERIVATIVES. FREDERICK WILLIAM ATACK, Manchester, England, and GEORGE ROBERTSON, Couper Angus, Scotland. Filed June 3, 1921. Serial No. 474,756. 14 Claims. (Cl. 23—24.)

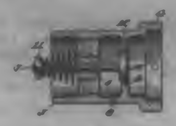
1. The process of halogenating anthraquinone derivatives in a hot aromatic liquid in presence of a neutralising agent.

1,401,126. COMBUSTION-ENGINE. ARTHUR A. AUST, Bedford, Ohio. Filed Mar. 1, 1917, Serial No. 151,661. Renewed Apr. 6, 1921. Serial No. 459,083. 23 Claims. (Cl. 123—16.)



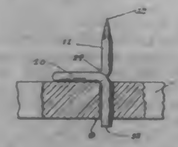
1. In a combustion engine, the combination of a single compression chamber provided with a rotatable ring, a plurality of combustion chambers, means controlled by said ring for regulating the supply of fuel from the compression chamber to said combustion chambers at stated intervals.

1,401,127. CARBURETER ATTACHMENT. JACOB S. BAER, North Venice, and MICHAEL E. LOGUE, East St. Louis, Ill. Filed Sept. 6, 1921. Serial No. 496,633. 1 Claim. (Cl. 261—145.)



An air valve attachment for carbureters including a substantially cylindrical member, a partition extending across the interior of said cylindrical member and spaced from the ends thereof, a web also extending across the interior of the cylindrical member and spaced from the ends thereof, a valve rod having its bearing in said web, a valve on one end of said rod, said partition being formed with a valve seat and an aperture adjacent thereto, an annular offset portion on one end of the cylindrical member providing a shoulder for engagement with a portion of the carbureter and means connected therewith for attachment to a carbureter.

1,401,128. DEVICE FOR HOLDING ICE UPON THE RUNNING-BOARDS OF VEHICLES. WARREN D. BARTON, Waco, Tex. Filed Jan. 3, 1921. Serial No. 434,778. 1 Claim. (Cl. 224—29.)



In a device for securing cakes of ice upon the running board of a vehicle, the combination with a running board provided with a substantially vertical opening of a member provided with a downwardly extending portion adapted to engage in said opening, said member flatly engaging the upper surface of the running board, and a prong extending upwardly from and secured to said member.

1,401,129. MINER'S CARBID-LAMP. IVIN I. BILLINGS, Marial, Oreg. Filed Aug. 7, 1917. Serial No. 184,895. Renewed May 5, 1921. Serial No. 467,126. 1 Claim. (Cl. 48—4.)

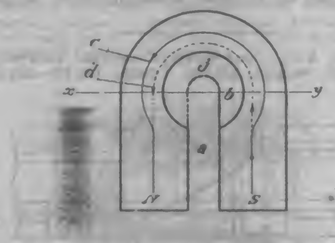
In a carbid lamp for miners, a carbid receptacle having a tubular casing rising upwardly therefrom and being detachably connected thereto so as to allow ready access to the carbid receptacle, said tubular casing having a water chamber therein provided with an opening of communication with said receptacle, an auxiliary casing centrally disposed in the tubular casing, the auxiliary casing forming a collection chamber, the lower end of said auxiliary chamber being restricted, the upper end of the auxiliary chamber being restricted and terminating in a burner, a cap for the upper end of the tubular casing carried by said restricted burner portion, a needle valve disposed in the water chamber between the auxiliary casing and the wall of the tubular casing, the restricted ends of the auxiliary casing being detachably carried by the auxiliary casing, a flanged bushing screwed into the lower end of the tubular casing and forming a closure

for the water chamber, said detachable connections of the restricted ends of the auxiliary casing, the lower



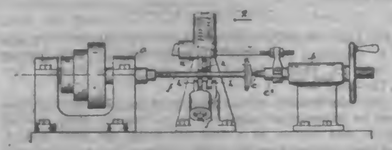
end of the tubular casing and the flanged bushing allowing the various parts to be easily and quickly assembled or dismassembled for cleaning purposes.

1,401,130. HORSESHOE-MAGNET. FREDERIC BILLON and JACQUES BOHLI, Solothurn, Switzerland, assignors to Firm "Scintilla," Solothurn, Switzerland. Filed Aug. 22, 1919. Serial No. 319,147. 1 Claim. (Cl. 175—21.)



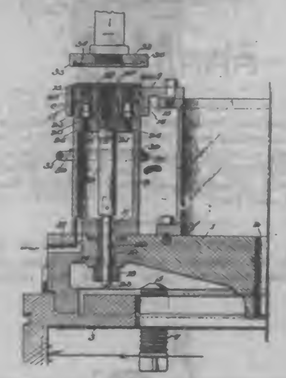
A horse-shoe magnet constructed of a cylindrical steel bar bent to form a U-shaped cylindrical body, a parallel-sided slot symmetrically bifurcating said body from one end and terminating in a hole in the yoke of said body parallel to said slot and perpendicular to said axis, said hole being of greater width than said slot in a direction perpendicular both to said axis and said slot sides.

1,401,131. WORK-REST. WILLIAM A. BLACKBURN, Detroit, Mich. Filed May 24, 1920. Serial No. 383,773. 8 Claims. (Cl. 82—39.)



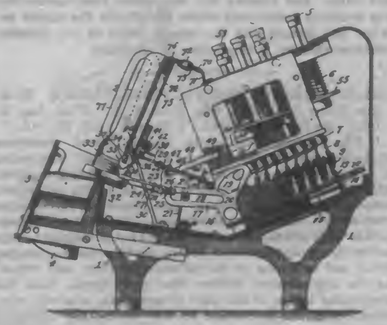
1. In a work rest, in combination with the tail piece of a lathe, an adjustable support for a piece of work, a gripping member adapted to hold the work against said support, means carried by said tail piece adapted to cooperate with said gripping member so as to elevate the same from the work coincident with the withdrawal of the tail piece.

1,401,132. PAPER-CONTAINER MACHINERY. JOSEPH T. BOND, Fulton, N. Y., assignor to Sealright Co., Inc., Fulton, N. Y., a Corporation of New York. Filed July 17, 1918. Serial No. 245,350. 33 Claims. (Cl. 93—55.)



1. In paper container machinery, a mandrel having an expansible normally contracted head, in combination with a relatively-stationary tube-guiding and abutment-wall surrounding said head, and means for operating on a tube end projecting from the mandrel and wall, said mandrel and wall arranged for the longitudinal application and removal of paper tubes on the mandrel and through the wall.

1,401,133. COIN-DELIVERY APPARATUS. EDWARD J. BRANDT, Watertown, Wis. Filed Jan. 25, 1918. Serial No. 213,729. 20 Claims. (Cl. 133—4.)



1. In a machine of the character described, the combination of a coin receptacle, a longitudinally movable coin pusher mechanism, operatively associated therewith to eject a coin, said mechanism having a fixed upward extension, vertically movable, key actuating means for the coin pusher, a vertically movable rocker arm to be engaged by the coin pusher mechanism, an anti friction roller carried by the rocker arm for direct engagement

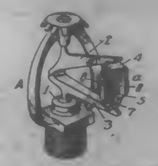
with the upward extension of the coin pusher mechanism, and locking means operatively associated with the coin pusher mechanism adapted to be controlled by the number of coins in the receptacle.

1,401,134. COMBINED CURRYCOMB AND BRUSH. JUSTUS BUTTERFIELD, Warren, Ind. Filed July 19, 1921. Serial No. 485,469. 4 Claims. Cl. 119—85.)



1. A grooming device for animals comprising a longitudinally extending head, brush tufts carried by one face of the head, a laterally extending resilient plate carried by one longitudinal edge of the head, a plurality of longitudinally extending comb bars carried by the lower surface of said plate.

1,401,135. FIRE-EXTINGUISHER. BYRON B. CARTER, Hinsdale, Ill., assignor to Charles D. Allan, Chicago, Ill. Filed June 29, 1916. Serial No. 106,606. 7 Claims. (Cl. 169—39.)



1. A fusible element comprising overlapping members soldered together, a shoulder formed on one of said members against which the overlapping end of the other member bears, flanges on one of said members which embrace the lateral edges of the other member constructed and arranged to support said members in alinement with each other, and loading for the solder joint connecting said members comprising solder which fills the spaces between said flanges and the lateral edges of the member embraced thereby, substantially as described.

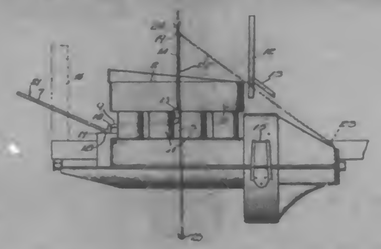
1,401,136. METHOD OF CALCINING ALUNITE. HOWARD FIELD CHAPPELL, New York, N. Y. Filed Aug. 2, 1920. Serial No. 400,640. 3 Claims. (Cl. 23—13.)

1. The process of calcining alunite, which comprises subjecting the alunite during the process of calcination to a temperature in excess of that at which potassium sulfate volatilizes until substantially all of the potassium compounds contained therein are converted into potassium sulfate, and substantially all of the aluminum compounds into aluminum oxid, the mass undergoing calcination being agglutinated at its surface by the partial fusion and softening of the potassium sulfate, and removing the agglutinated surface film, as it forms, from the volatilizing action of the high temperature, whereby volatilization of the potassium sulfate during the calcining operation is substantially avoided; substantially as described.

1,401,137. METHOD OF CALCINING ALUNITE. HOWARD FIELD CHAPPELL, New York, N. Y. Filed May 28, 1918. Serial No. 236,981. Renewed Oct. 29, 1921. Serial No. 511,447. 11 Claims. (Cl. 23—13.)

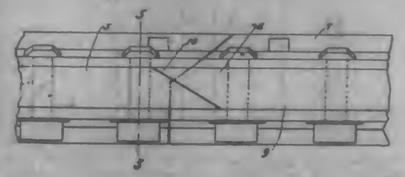
4. The method of calcining alunite and the like, which comprises heating the alunite, after the greater portion of the fumes of oxids of sulfur have been emitted therefrom, by effecting combustion of a suitable fuel in the presence thereof.

1,401,138. ENGINE-LIFTER. CLARENCE C. CHASE, Buda, Ill. Filed May 26, 1919. Serial No. 299,758. 6 Claims. (Cl. 294—82.)



1. The herein described lifting tool comprising a lever having an end bent off substantially at right angles to the body of the lever and adapted to be projected through an automobile engine between the cylinders thereof, the lever formed with a downwardly curved heel adapted, in use to bear upon the forward end of the engine, said bent off end adapted to receive the lower ends of chains adapted to rise to the hook of a suitable hoist, the free end of the lever when in use projecting forward from the front end of the engine a suitable distance, so that the rear end of the engine beyond the point between the cylinders can be readily counterbalanced by an operator.

1,401,139. RAIL. JOHN CLANCY, Kenner, La. Filed Oct. 15, 1920. Serial No. 417,221. 1 Claim. (Cl. 238—231.)



In a scarf joint, rail sections, each of said rail sections having its base portion cut at an oblique angle, the cut portion extending from one edge of the base of the rail and terminating at a point adjacent to the web thereof, said angular cut merging into a relatively straight cut, extending from the web to the opposite edge of the rail, the tread of the rail section having a diagonal cut in a direction opposite to the oblique cut in the base, the surfaces formed by the latter diagonal cuts coöperating to prevent lateral movement of one section with respect to the adjacent section.

1,401,140. FLOAT-CONTROLLED OIL-GAGE. VINSON S. CULWELL and OTTO A. BIER, Warrior, Ala. Filed Dec. 21, 1920. Serial No. 432,215. 1 Claim. (Cl. 73—82.)

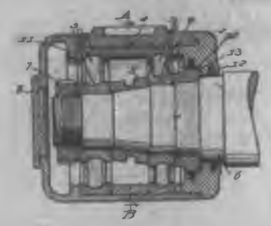
The combination with a casing of an automobile engine and an instrument board of an automobile body located above said engine, of a float controlled oil level indicating gage carried by said engine casing, said gage comprising a tubular casing having its upper end disposed in a recess of the instrument board and its lower end in communication with the interior of the engine casing, the lower portion of the tubular member being enlarged there-

by forming an oil chamber, a float disposed within said oil chamber, a rod carried by said float and extending upwardly through the tubular member and outwardly through a slot at its upper end, a cap for closing the upper end of the tubular member, a scale plate secured to the instrument board and provided with a slot registering substantially with the slot in the upper end of the



tubular member, the upper end of said float carried rod being bent and extending through the slot in the scale plate at substantially a right angle and terminating in a pointer for coöperating with the scale on said scale plate, said pointer being formed integral with the rod and disposed at a right angle to and in the same plane as the portion of the rod extending through the slot in the plate.

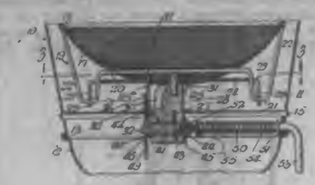
1,401,141. JOURNAL-BOX FOR RAILWAY-CARS AND SIMILAR VEHICLES. AXEL DANIELSSON, Stockholm, Sweden, assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Filed Sept. 11, 1920. Serial No. 409,696. 6 Claims. (Cl. 64—30.)



1. In a journal box for railway cars and similar vehicles, a casing having an inner chamber mainly of cylindrical form, a cover for the casing, inner and outer antifriction bearings mounted in the chamber, means separating said bearings, a shoulder arranged in the casing against which the outer race ring of the outer bearing rests, a removable ring arranged between the outer race ring of the inner bearing and said cover, a journal extending into the casing, a member mounted on the journal and bearing against the inner race ring of the outer bearing, and a sleeve mounted upon the journal and bearing against the inner race ring of the inner bearing.

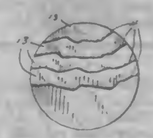
1,401,142. FLOUR-SIFTER. JAMES H. DEAN, Chicago, Ill. Filed Sept. 10, 1921. Serial No. 499,791. 18 Claims. (Cl. 83—60.)

1. A flour sifter comprising a sifter casing, a sieve basket removable from said casing, a diametric member fixed at its ends to the top of the basket and having an intermediate part and end loops depending below said intermediate part, a bar mounted in the casing and capable of oscillation in a horizontal plane about a point mid-



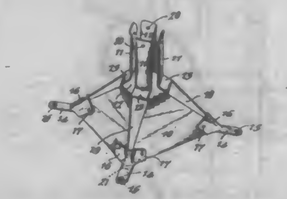
way of its length, said bar having stirrups adapted to be engaged by said depending loop, and means for oscillating said bar.

1,401,143. SOUND-BOX DIAPHRAGM. PATRICK B. DELANY, South Orange, N. J. Filed Oct. 20, 1919. Serial No. 331,974. 6 Claims. (Cl. 181—32.)



6. A diaphragm for sound boxes comprising sheets of fibrous material joined together by a plastic compound containing a suitable vegetable gum which becomes adhesive under the action of heat and is normally flexible.

1,401,144. HOLDER FOR CHRISTMAS TREES AND THE LIKE. WILLIAM DICKS, Buffalo, N. Y., assignor to Dicks Stamping Co., Inc., Buffalo, N. Y., a Corporation of New York. Filed Sept. 24, 1920. Serial No. 412,432. 3 Claims. (Cl. 248—38.)

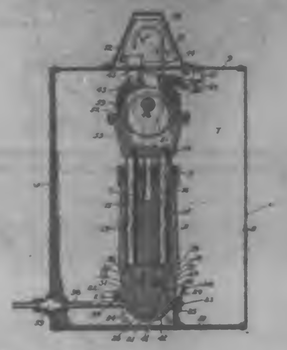


1. A holder of the character described, comprising a pyramidal base having its sides separated by apertures arranged in line with its corners, and upright holding jaws rising from the base and arranged in line with said apertures.

1,401,145. SIGHT-FEED OIL-PUMP. OSCAR EVERSON, Hibbing, Minn. Filed July 26, 1920. Serial No. 399,015. 6 Claims. (Cl. 184—35.)

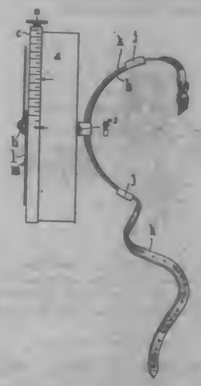
6. In a lubricator, a reservoir, a valve block carried by and arranged in the reservoir, a cylinder block including a pair of cylinders rotatably mounted on said block, a port formed in the lower end of each cylinder, inlet and outlet ports formed in said valve block, the inlet port communicating with said reservoir, an outlet pipe communicating with the outlet port, a sight feed device includ-

ing a pair of pipes, ports formed in said valve block communicating with said pipes and arranged to aline with the ports in said cylinder block, a pair of sliding plungers arranged in said cylinders, one of said cylinders and one of said plungers forming a means for forcing the lubricating oil to the sight feed device, and one of the plungers and cylinders forming the means for receiving the oil



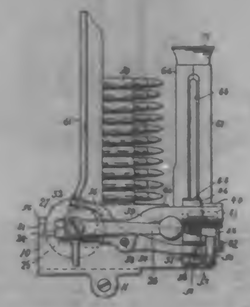
from the sight feed device and for forcing oil to the bearing to be lubricated, a pair of shafts arranged in axial alinement, a cam formed on one of the shafts, a cam strap carried by the plungers and receiving said cam, manual means for operating one of said shafts, mechanical means for operating the other shaft, a ratchet wheel secured to one of the shafts, and a dog mechanism carried by the other shaft.

1,401,146. DEVICE FOR MEASURING THE RANGE OF MOVEMENT OF HUMAN JOINTS. WILLIAM WILLIAM PHILLIPS FALCONER, London, England. Filed Mar. 26, 1919. Serial No. 285,204. 6 Claims. (Cl. 33—207.)



1. A device for indicating the range of angle of movement of human joints and adapted to be attached to a human limb in such a manner as not to cause injury thereto comprising in combination an indicator graduated so as to indicate the degrees of an arc or circle such indicator being flanged to fit upon a casing in the center of which an arbor is supported, a weighted arm suspended in the casing from the said arbor, and a pointer adapted to register with the graduations of the indicator and keyed to a portion of the arbor which projects beyond the face of the casing.

1,401,147. LOADING FEED-BELTS FOR MACHINE-GUNS. HERBERT H. FARR, U. S. Army. Filed Dec. 30, 1918. Serial No. 268,980. 12 Claims. (Cl. 86—48.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. In a device of the class described, a receptacle for shell supporting links comprising a tubular member having a flaring intake, and a stop within the intake to control the entrance of the links into the receptacle.

1,401,148. TIRE. WILLIAM G. FORDING, Cleveland, Ohio. Filed June 19, 1916. Serial No. 104,390. 7 Claims. (Cl. 152—13.)

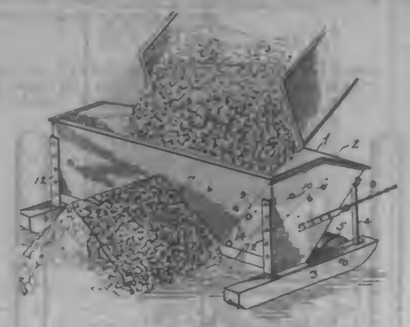


1. An open tire or tire shoe having a fabric portion composed of tire-forming material extending in unbroken succession back and forth from the rim portion on one side to the rim portion on the other side so as to form a plurality of layers, said material being in the form of a sheath extending circumferentially entirely around the tire and having its inner and outer ends terminating in the inner and outer layers and separated by at least one complete layer.

1,401,149. COMBINED SPREADER AND ROLLER. HARRY C. FOSTER, Dayton, Ohio, assignor to The Burch Plow Works Company, Crestline, Ohio, a Corporation of Ohio. Filed Jan. 27, 1920. Serial No. 354,409. 9 Claims. (Cl. 94—44.)

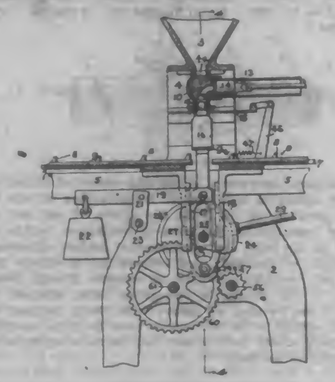
1. An apparatus for temporarily depositing material in a measured mass to be subsequently recollected, comprising a traveling hopper to receive the material to be deposited, means for regulating the contour and proportions of the deposited mass, whereby the material is

deposited in measured quantity and surfacing means moving in unison with the hopper to prepare the surface



operated over to receive the deposit whereby the subsequent recollection of the deposited material will be facilitated.

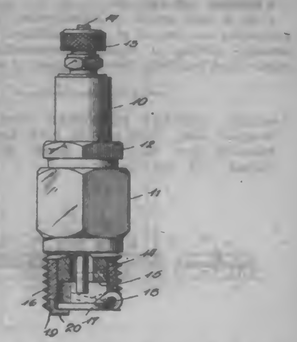
1,401,150. MACHINE FOR FILLING BOTTLES, &c. JOHN F. GEYER, Philadelphia, Pa. Filed Sept. 1, 1917. Serial No. 189,304. 10 Claims. (Cl. 226—95.)



1. In a machine of the character stated, the combination of a hopper, a nozzle below the hopper, gravity actuated means to raise a receiving vessel into adjustment and close relation with the nozzle, a cylinder, a valve device between the hopper and the nozzle for shutting off the direct communication between said parts but providing communication alternately from said parts to the cylinder, a plunger in the cylinder for withdrawing the material through the valve into the cylinder and discharging the material from the cylinder through the nozzle, and power devices for controllably lowering the gravity actuated means and receiving vessel away from the nozzle.

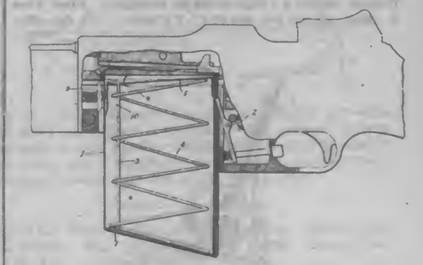
1,401,151. SPARK-PLUG. MICHAEL J. DI GIACOMA, Wilmington, Del. Filed Apr. 22, 1921. Serial No. 463,594. 2 Claims. (Cl. 123—169.)

1. A spark plug comprising a shell, a chamber in the lower end thereof, a central electrode projecting into said chamber, a disk hinged to the wall of said chamber forming a loose fit therewith, a stop member secured to



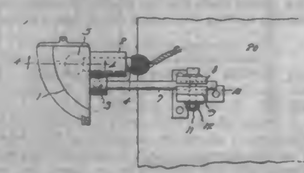
the end of said shell and projecting below said disk to prevent the same from swinging outwardly beyond said shell.

1,401,152. CARTRIDGE-HOLDER. SAMUEL G. GREEN, U. S. Army. Filed July 2, 1919. Serial No. 308,301. 6 Claims. (Cl. 42—50.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. In a cartridge magazine having a follower and a follower spring therein, a spacing means for shortening the length of such magazine, such means extending the depth of the magazine and engaging within all the forward loops of the follower spring and passing through the follower.

1,401,153. ADJUSTABLE AUTO-LAMP. ARTHUR HALLIWELL, Cleveland, Ohio. Filed May 14, 1921. Serial No. 469,415. 1 Claim. (Cl. 240—7.)

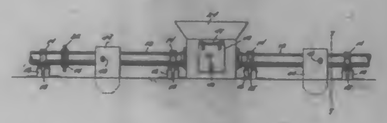


A lamp comprising a triangular casing having closed top and sides and a glass bottom, one side wall of the casing having a tubular boss forming a socket, a lamp in said socket, a rod secured to the said wall beside said socket, and a clamp in which the rod is held.

1,401,154. SOLDERING-FLUX. HENRY HESS, Philadelphia, Pa. Filed Jan. 11, 1919. Serial No. 270,618. 6 Claims. (Cl. 148—25.)

1. As a new article of manufacture, a soldering flux containing an amount of metal sufficient only to form a metallic coating of nearly immeasurable thickness to receive and facilitate the application of solder.

1,401,155. ROTARY CONVEYER. FRANK C. JACOBY, Newport, Ark. Filed Jan. 29, 1919. Serial No. 273,869. Renewed Aug. 22, 1921. Serial No. 494,373. 14 Claims. (Cl. 198—213.)



1. In a device of the class described, a revoluble casing, means for feeding material to the interior of the casing, spiral conveyers in said casing disposed in opposite directions therein from said feeding means, and discharge means in said casing remote from said feeding means.

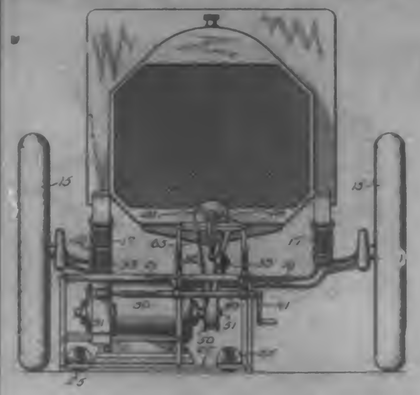
1,401,156. LAWN-MOWER. CHARLES FRANCIS JENKINS, Washington, D. C., assignor to Moto-Mower Company, Detroit, Mich., a Corporation of Michigan. Filed June 5, 1920. Serial No. 386,718. 3 Claims. (Cl. 56—20.)



1. The combination with a lawn mower frame having a guiding handle, an internally geared ground wheel, and a motor mounted on the frame of a rotary cutter shaft provided with a loose pinion meshing with the ground wheel, means operable from the guiding handle for compelling the cutter shaft and its pinion to rotate together, and means for driving the cutter shaft from the motor.

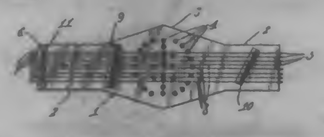
1,401,157. POWER TAKE-OFF MECHANISM. VANE B. KORNER, La Grange, Ill. Filed Sept. 7, 1920. Serial No. 408,592. 8 Claims. (Cl. 180—53.)

1. In a device of the kind described, the combination of a framework, a generator mounted on the framework, a pulley on the generator shaft, a second frame mounted on the framework and adapted to be raised and lowered relative thereto, a shaft journaled in said movable frame and having means for connecting with the engine shaft of a power driven vehicle, a pulley on the last named shaft, a belt connection between the two pulleys whereby power is transmitted from the shaft connected with the engine to the generator shaft and means permitting the shaft journaled in the movable frame to swing about a



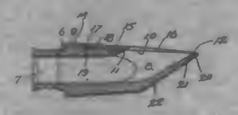
vertical axis without affecting the driving connection between the two pulleys, substantially as described.

1,401,158. HARP. FRANKLIN P. KENT, Lyons, Kans. Filed July 15, 1920. Serial No. 396,365. 2 Claims. (Cl. 84—284.)



1. A musical instrument of the class described including a hollow elongated body, means for attaching strings to the end portions of the body, the means at one end of the body constituting the keys, a transverse bridge at one end of the body, and supplemental bridges extending transversely of the body and coöperating to divide the strings into portions arranged in separate groups, those portions of the strings in one group being adapted to produce tones varying an octave from those portions of the same strings in the next group, there being an opening in the body under each group and communicating with the interior of the body.

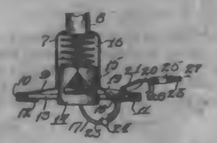
1,401,159. MOUTHPIECE FOR REED INSTRUMENTS. WILLIAM LEWERENZ, St. Louis, Mo. Filed May 31, 1921. Serial No. 473,819. 3 Claims. (Cl. 84—383.)



3. A mouth piece for reed instruments comprising a body portion formed of hard rubber, said body portion having a tapered dove tailed groove formed in its upper face, a bore formed in said mouth piece, a chamber formed in said mouth piece and communicating with said bore, an opening formed in said mouth piece and communicating with said chamber, a metallic facing

adapted to be inserted in said dove tailed groove, an opening formed in said facing and adapted to register with said chamber, and a downwardly projecting lip formed integral with said facing.

1,401,160. LUBRICATING-CAN. GUSTAVE LIDSKEN, Chicago, Ill. Filed Mar. 9, 1918. Serial No. 221,421. 7 Claims. (Cl. 221—47.)



1. An oil can comprising an oil container, a removable spout cap lockingly engaged thereon, ejecting means therein, a fulcrumed lever on said cap for actuating said ejecting means for forcing oil from the oil can, and means on said lever for engaging the spout cap for locking the ejecting means when the oil can is not in use.

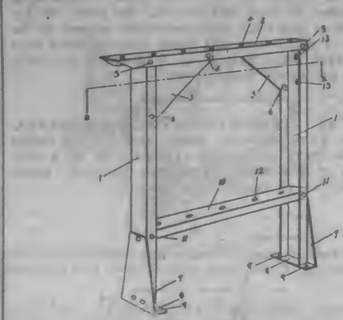
1,401,161. OIL-CAN-SPOUT CLOSER. GUSTAVE LIDSKEN, Chicago, Ill. Filed Apr. 29, 1920. Serial No. 377,442. 1 Claim. (Cl. 221—68.)



The combination with an oil can spout, of a member engaged thereon, means for clamping said member in place on said spout, arms integrally formed on said member, a pin supported by said arms, a lever pivotally engaged on said pin, a flange integrally formed at an angle on the end of said lever, a cap formed thereon, a closure pad seated in said cap, means struck from said flange to hold said closure pad in place, and a spring coiled around said pin and engaging said spout and lever to normally hold said lever in a position wherein said closure pad is adapted to seat over the end of said spout to close the same.

1,401,162. BENCH-PEDESTAL. JOHN H. LINDSEY, Sr., Otsego, Mich., assignor to Hughes Steel Equipment Co., Allegan, Mich. Filed Mar. 8, 1921. Serial No. 450,664. 4 Claims. (Cl. 144—286.)

1. In a bench pedestal, the combination of a pair of uprights of channel cross section disposed inwardly, a top piece of channel cross section disposed facing inwardly and with its flanges embracing the upper ends of said uprights and secured to the flanges thereof, a cross member of channel cross section disposed facing downwardly with its ends abutting the uprights between the flanges thereof and with its flanges secured to the flanges of the uprights, triangular braces disposed in the angles of said uprights and top cross piece with their edges abutting the same and secured to the adjacent flanges thereof, said braces being disposed in a diagonally opposed relation, and foot pieces secured on the outer sides of said uprights and having horizontally disposed



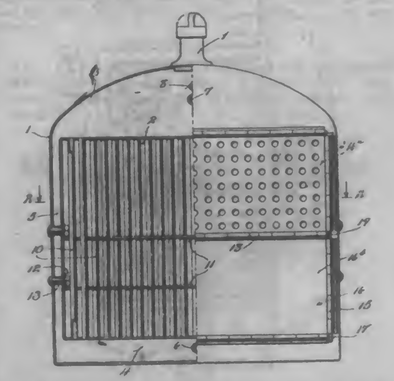
flanges at their lower ends extending below said uprights and providing means for attaching the pedestal to the floor.

1,401,163. COMBINED BED-SPRING FRAME AND BEDSTEAD. HARRY LITVAK, New York, N. Y. Filed July 16, 1920. Serial No. 396,686. 5 Claims. (Cl. 5—65.)



1. In a collapsible bed spring frame, hinged end rails and sides comprising a projecting arm secured to said end rails, a side member adjustably connected to one of said arms, and a detachable section arranged to connect said side member with the other of said arms.

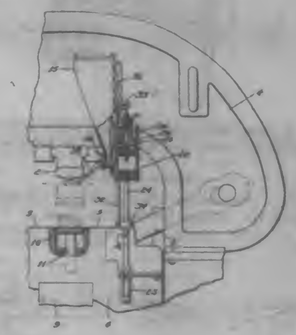
1,401,164. WATER-COOLING RADIATOR. JACOB LOHN, Appleton, Wis. Filed Aug. 18, 1919. Serial No. 318,132. 3 Claims. (Cl. 257—129.)



1. In a radiator, a frame, the upper and lower portions of the same forming upper and lower water chambers respectively, a plurality of vertical tubes in the

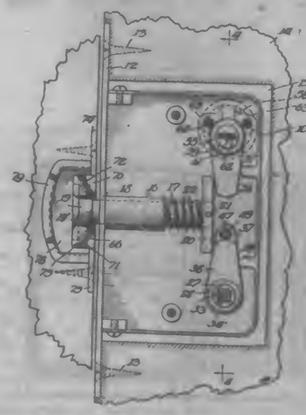
frame and connecting the water chambers to circulate water therethrough, and a substantially horizontal spacing plate disposed between the water chambers, said plate having a plurality of spaced holes corresponding to the number of tubes and receiving the same, the opposite ends of said plate being detachably secured to the side walls of said frame, said plates when detached from the side walls being movable up or down on the tubes to permit free access to the tubes.

1,401,165. PREPARATION OF HEEL-BLANKS. THOMAS LUND, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 12, 1919. Serial No. 276,572. 19 Claims. (Cl. 12—48.)



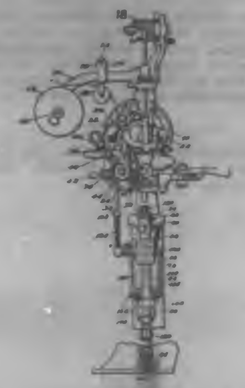
6. The combination with means for applying dry adhesive to a face of a substantially dry heel blank, of means for engaging the said face and pressing the adhesive upon it with sufficient pressure to cause the adhesive to adhere to the blank.

1,401,166. DOOR-LOCK. WILLIAM A. LUBIN, New Orleans, La. Filed Apr. 26, 1921. Serial No. 464,546. 9 Claims. (Cl. 70—29.)



2. In locking mechanism of the class described, the combination of a lock frame, a locking bolt extending into said frame from the exterior thereof, a sleeve forming part of the lock frame for receiving and guiding said bolt, an abutment at the inner end of said bolt, a spring between said abutment and the inner end of said sleeve tending to hold said bolt outwardly, a stem extending into said lock frame, an arm extending from said stem behind said bolt abutment, turning of said stem causing swing of said arm against said abutment and outward shift of said bolt against the force of said spring, and a pin adapted to be shifted into the path of said arm for preventing rotation thereof.

1,401,167. LASTING-MACHINE. ALBERT A. MACLEOD, Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 7, 1917. Serial No. 160,655. 78 Claims. (Cl. 12—2.)



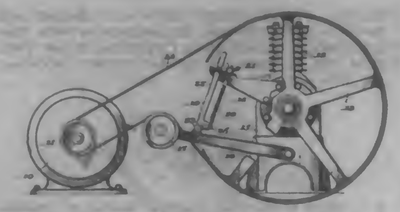
1. In a machine for lasting shoes which have an outwardly extending upper margin and a sole margin projecting beyond the bottom of the last, the combination of means supporting the bottom of the sole, means against which the shoe may be pressed to hold the projecting margin of upper against the edge face of the sole, and means, operative while the upper is so held, for wiping the upper down the side of the last toward the sole and against the top face of the projecting margin of the sole to tension the upper.

1,401,168. CHECK-PROTECTOR. FRANK R. MCALLISTER, Minneapolis, Minn. Filed May 25, 1921. Serial No. 472,357. 4 Claims. (Cl. 101—24.)



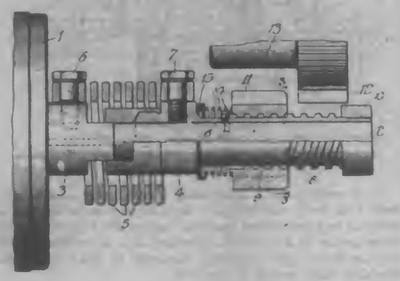
1. A mutilating instrument comprising a member having slightly diverging arms connected at one of their ends and adapted to move toward and from each other, and a mutilating roller mounted upon each of said arms and disposed between the same with its axis extending longitudinally of said arms, one of said rollers being longitudinally movable with respect to the other.

1,401,169. BELT-TIGHTENING MECHANISM. CHARLES L. MCCORN, Detroit, Mich., assignor, by mesne assignments, to The Isko Company, Chicago, Ill., a Corporation of Delaware. Filed Jan. 21, 1918. Serial No. 213,014. 11 Claims. (Cl. 64—5.)



1. The combination with a driving belt, of a tightening pulley bearing thereon, a stationary bracket, and means connecting said pulley with the bracket to automatically tighten the belt and retain the pulley in tightening position.

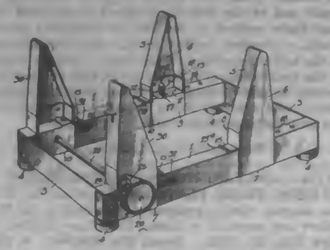
1,401,170. ENGINE-STARTER. WILLIAM L. MCGRATH, Elmira, N. Y., assignor to Eclipse Machine Company, Elmira, N. Y., a Corporation of New York. Filed Oct. 20, 1920. Serial No. 418,265. 6 Claims. (Cl. 74—7.)



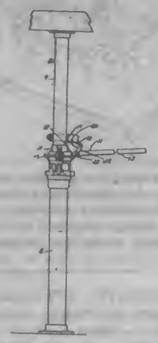
1. An engine starter drive including a rotatable shaft having a screw-threaded portion and a plain portion, and a driving member having a bore with a screw thread, such member being normally positioned on the plain portion of the shaft with its screw threads adjacent the screw-threaded portion but out of register therewith and adapted to engage threads when the shaft is rotated.

1,401,171. BINDER-RACK. FRED L. MANNY, Benton Harbor, Mich., assignor to Baker-Vawter Company, Benton Harbor, Mich., a Corporation of Michigan. Filed Aug. 5, 1918. Serial No. 248,298. 8 Claims. (Cl. 45—57.)

2. In a binder rack, a rectangular frame, a pair of front posts slidingly mounted on the side members of said frame, means for securing said posts to said side members, a pair of rear posts also slidingly mounted on the side members of said frame, a pair of racks fixed respectively to the said side members and a manually operable train of gearing mounted upon said rear posts and arranged to coöperate with said racks to shift such posts in unison.

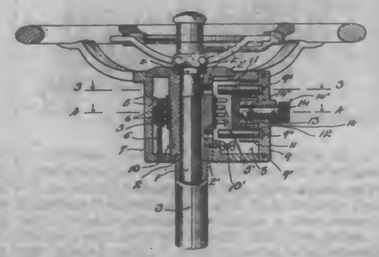


1,401,172. JACK-ACTUATING LEVER. CHARLES M. MARKHAM, Milwaukee, Wis. Filed Nov. 15, 1919. Serial No. 338,408. 7 Claims. (Cl. 254—106.)



1. A jack actuating lever, comprising a collar adapted to be temporarily associated with the member to be lifted, a clamping jaw carried thereby, a lever, and a linked connection between the lever and the collar for moving the jaw and the collar into effective lifting engagement with said member.

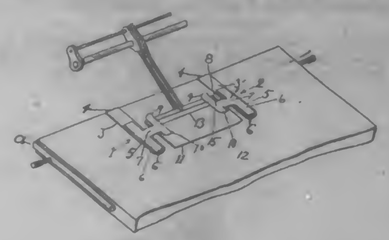
1,401,173. LOCK FOR AUTOMOBILE STEERING MECHANISM. JOSEPH MARBEL, Milwaukee, Wis. Filed June 2, 1921. Serial No. 474,331. 2 Claims. (Cl. 70—129.)



1. A steering gear lock comprising an actuating shaft, a head secured thereto having a locking aperture therein,

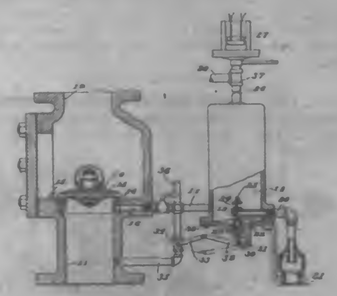
a dial flange extending from its upper end, notched tumbler disks rotatably mounted upon the head, an open ended hollow wheel hub loosely mounted upon the head, the open end of the hub being closed by the dial disk, a pick-up finger carried by the hub for actuating the series of disks, a plunger carried by the hub for engagement with the locking aperture of the head, a tongue extending from the plunger adapted to enter the disk notches, a plate extending rearwardly from the tongue having a lateral pin extension, and a rotary sleeve mounted in the hub having a cam slot for engagement with the plate pin.

1,401,174. ENVELOP-HOLDING ATTACHMENT FOR PRINTING-PRESS PLATENS. CHARLES H. MARTIN, Los Angeles, Calif., assignor of one-half to A. K. Dellarowe and one-half to Emma Hull, Los Angeles, Calif. Filed Jan. 10, 1921. Serial No. 436,095. 9 Claims. (Cl. 101—415.)



1. A pair of clips for a printing press platen adapted to be fastened to the platen and provided with resiliently mounted lateral extensions extending toward each other and adapted to engage and hold an envelop against the platen substantially as and for the purpose set forth.

1,401,175. AUTOMATIC ATTACHMENT FOR FIRE-EXTINGUISHER SYSTEMS. JONATHAN C. MELOON, Providence, R. I. Filed Sept. 15, 1920. Serial No. 410,405. 7 Claims. (Cl. 169—23.)



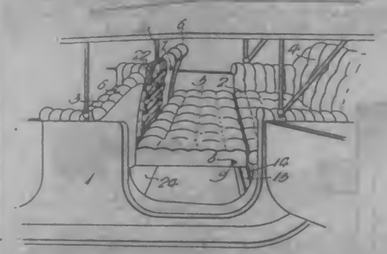
1. An attachment for an automatic sprinkler system, comprising the combination, with a valve arranged in the water supply part of the system and having an intermediate chamber in its seat, a drip passage therefrom, a drip chamber with a restricted discharge at a low level, and a spring supported movable bottom and discharge lid whereby water accumulates in the drip chamber, when the drip exceeds the capacity of the restricted discharge, and the accumulation depresses the chamber bottom of a lever connected with the chamber bottom outside of the chamber; a water passage leading from the system on the supply side of the said valve to the top of the chamber bottom and leading to apparatus that is to be operated, a valve in the last mentioned passage, and means whereby said lever opens said valve last mentioned when moved by said chamber bottom.

1,401,176. SPRAY-HEAD. ARTHUR C. MILLER and EDWIN H. PIERCE, Chicago, Ill., assignors to Sears, Roebuck and Co., Chicago, Ill., a Corporation of New York. Filed Dec. 20, 1920. Serial No. 433,990. 5 Claims. (Cl. 299—121.)



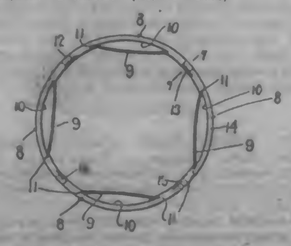
1. A device of the class described having, in combination, a nozzle having a discharge orifice, a support fixed to the nozzle and having a tongue positioned before said nozzle, the portion of said tongue adjacent said nozzle being offset from axial alignment with the orifice, and a spray plate detachably supported on said tongue and arranged in spaced transverse relation to said orifice.

1,401,177. CONVERTIBLE AUTOMOBILE-BODY. FRANK MITCHELL, Houston, Tex. Filed Feb. 28, 1921. Serial No. 448,573. 2 Claims. (Cl. 155—7.)



1. A vehicle body comprising a front seat and a rear seat, said front seat having a back section movable from a vertical to a horizontal position, means for supporting the back section in a horizontal position, and an auxiliary back for the front seat removably mounted in place when the movable back section is lowered.

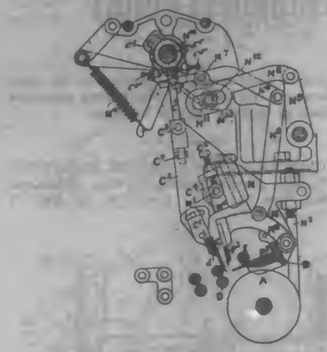
1,401,178. PISTON-RING. THOMAS MOHN and ALBERT MOHN, Red Wing, Minn. Filed May 28, 1919. Serial No. 299,249. 1 Claim. (Cl. 74—100.)



A piston ring comprising a plurality of ring sections, the adjacent sections having overlapping end portions, each

section being provided at its inner side with a recess having undercut end walls, the said walls converging toward each other toward the center of the ring and a flat spring bridging the recess and bearing at its ends against the undercut converging end walls of the recess.

1,401,179. COMBING-MACHINE. JOHN WILLIAM NAISMITH, Stockport, England. Filed May 17, 1916. Serial No. 98,207. 12 Claims. (Cl. 19—6.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



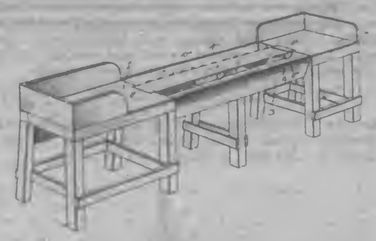
1. In a combing machine the combination of a combing cylinder, a detaching roller, a nipper pivoted above the cylinder in such a position that its point moves on an arc that lies closely adjacent to the peripheries of the cylinder and of the detaching roller, and a top comb pivoted approximately on the same center as the nipper.

1,401,180. OIL-CAN. ALBERT R. NELSON, Sheridan, Wyo. Filed May 3, 1920. Serial No. 378,670. Renewed Aug. 11, 1921. Serial No. 491,559. 2 Claims. (Cl. 221—48.)



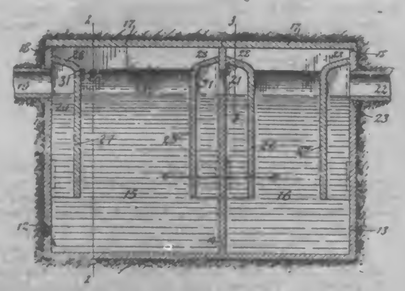
1. A device of the class described comprising a container having a resilient bottom, a spout for said container provided with a valve seat in its discharge end and having its other end extending into the exterior of said container, the portion of said spout disposed inside said container having openings in its opposite sides, a lever extending transversely through said spout with its ends projecting through said openings, a stem extending longitudinally through said spout, one end of said stem being connected to one end of said lever, the other end of said stem being seated upon said valve seat, a rod extending longitudinally through the portion of said spout which is disposed inside said container and having one end connected to the other end of said lever, the other end of said rod bearing against the bottom of said container, and resilient means in conjunction with said rod and said spout for normally holding the last mentioned end of said rod in contact with the bottom of said container.

1,401,181. TABLE FOR PASTING STORAGE-BATTERY PLATES. WILLIAM H. NORDHAUS, Chicago, Ill., assignor to K. W. Battery Company, Chicago, Ill., a Corporation of Illinois. Filed May 21, 1920. Serial No. 383,273. 8 Claims. (Cl. 18—1.)



1. In a pasting table, a rotatably mounted removable support for the plates having semicircular end pivot members, and a similar removable support arranged to be placed face to face upon said first mentioned support and to be rotated into the position first occupied by said first mentioned support, said pivot members of the supports being arranged to seat in semicircular bearings in the frame of the table.

1,401,182. APPARATUS FOR TREATING SEWAGE. EDWARD F. OYBSTON, Buffalo, N. Y. Filed July 28, 1920. Serial No. 399,498. 2 Claims. (Cl. 210—6.)



1. A sewage treating apparatus comprising a hollow body having a transverse wall provided with an opening in its upper part and seats which are undercut and converge downwardly on opposite sides of said opening, and an upright conduit which is of trough-shaped form in cross section and has its upright edges constructed of downwardly converging and dove tail form and engaging with said seats.

1,401,165. AUTOMOBILE TRUNK. JAMES J. EMMETT, Chicago, Ill., assignor to Marshall Field & Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 10, 1918. Serial No. 227,649. 2 Claims. (Cl. 224—29.)



2. In combination, a running board of an automobile, a luggage carrier mounted thereon, said luggage carrier comprising a hinged casing, attachments on opposite sides of said casing, vertical rods coöperating with said attachments and extending through said running board for releasably holding said casing, said vertical rods being readily removable, whereby, when said luggage carrier is not being used, no obtrusive attachments appear.

1,401,184. COMBINED KEY-RING AND HOLDER. STEPHEN PETER, Omaha, Nebr. Filed June 30, 1921. Serial No. 481,692. 4 Claims. (Cl. 24—3.)



1. A combined key ring and holder of the specified class, comprising a key ring having an open entrance between the ends of the ring, a loop spring slidable on the ring, a slide encircling the spring and having a tongue adapted to engage the ring, a self-closing hook adapted to engage the loop spring, and means for attaching the hook to an article of wearing apparel.

1,401,185. CHEMICAL APPLIANCE. JOHN JERMAIN PORTER, Hagerstown, Md. Filed Dec. 3, 1919. Serial No. 342,140. 16 Claims. (Cl. 23—3.)



2. An appliance for inducing chemical and physical reactions comprising a rod-like member provided near each end with means adapted to hold a solid reagent while exposing the same to liquid into which said member may be dipped.

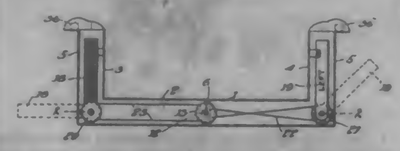
1,401,186. ELECTRIC RESISTANCE UNIT. HERMAN F. PRENZLOW, Johnson Creek, Wis. Filed Apr. 12, 1920. Serial No. 373,087. 2 Claims. (Cl. 219—63.)

1. An electrical unit comprising a rectangular form of insulating material having its opposite edges provided with a series of spaced notches, each end having a single notch, a pair of terminals on the form near the center thereof, and a resistance wire having one end connected with one terminal and extending therefrom in spires through alternate notches to one end notch, continuing in spires midway between the first mentioned spires and continuing to the other end notch and thence back to the other terminal, said spires from one terminal to the other circumscribing the form continuously in the same general



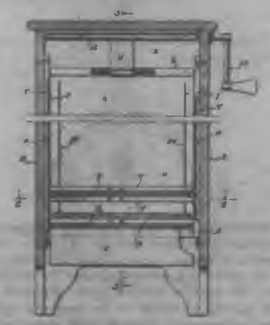
direction and at no point crossing each other on the same side of the form, the two ends of the wire being connected to the terminals at opposite sides of the form.

1,401,187. DIRECTION-INDICATOR FOR AUTO-VEHICLES. FRANCIS HENRY RADELEFF, West Alhambra, Calif. Filed June 26, 1920. Serial No. 391,589. 2 Claims. (Cl. 116—58.)



1. In a direction indicator for auto vehicles, three pairs of signaling arms marked respectively "Left," "Right," and "Stop," the arms of each pair being arranged respectively at the sides of the vehicle, means for swinging the "Left" arm at the left side of the vehicle horizontally and simultaneously swinging the "Left" arm at the right side of the vehicle at an angle, means for swinging the "Right" arm at the right side of the vehicle horizontally and simultaneously swinging the "Right" arm at the left side of the vehicle at an angle, and means for swinging both "Stop" arms downwardly at an angle.

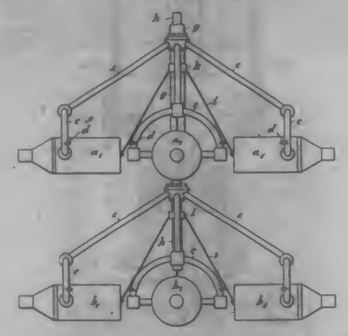
1,401,188. FLEXIBLE FILING-CABINET. CARL G. RAY, Racine, Wis. Filed Apr. 26, 1921. Serial No. 464,662. 3 Claims. (Cl. 45—2.)



2. A flexible filing device comprising a cabinet, racks carried thereby, a vertically movable tray mounted in

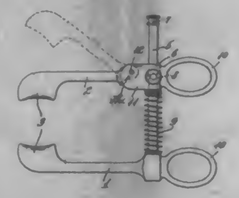
the cabinet, a series of right partitions normally supported by the tray and adapted to form pockets of varying sizes for articles inserted therebetween, the proportions of the pockets being controlled by gravity, means for lifting the tray, and manually controlled clutch means carried by each tray for locking the same after it has been lifted, whereby a clearance space is formed between the locked tray and its associated pocket for access to articles contained therein.

1,401,189. PROJECTING APPARATUS. ARTHUR RUHLIG, Berlin, Germany, assignor to Aktiebolaget Ars, Stockholm, Sweden, a Corporation. Filed May 26, 1921. Serial No. 472,805. 5 Claims. (Cl. 88—24.)



1. A projecting apparatus for exhibiting imitation clouds movable in various directions comprising a rotatable member, a series of projecting devices radially arranged around the axis of the rotatable member and movable around said axis, and means for moving said devices about horizontal axes.

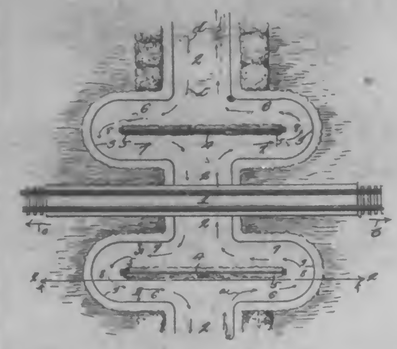
1,401,190. MOUTH-PROP. SHERIDAN RISLEY, Cleveland, Ohio, assignor to The Cleveland Dental Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 20, 1920. Serial No. 360,036. 6 Claims. (Cl. 128—17.)



1. A mouth prop or gag, comprising a pair of coöperating jaw receiving members, and relatively adjustable slidably connected base members supporting the same, one of said jaw receiving members being pivotally connected to its base member.

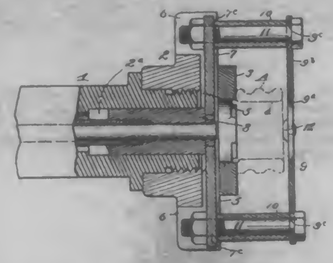
1,401,191. RAILROAD-CROSSING. ANDREW M. RITCHEY, San Antonio, Tex. Filed Jan. 20, 1920. Serial No. 352,706. 1 Claim. (Cl. 238—3.)

A railroad crossing comprising a road crossing a railroad at an angle, said road being provided with a circuitous passage having a plurality of sections in parallel relation to the railroad track, the parallel section adjacent the railroad track being spaced from the track, said parallel sections of the road compelling the approaching vehicle to assume positions in its course to the railroad track so that the operator will have a clear view up and down the track, the parallel section adjacent



the track being spaced from the track allowing the operator to stop the vehicle if a train is approaching at a point spaced from the track, said parallel sections of the road being separated from each other by a relatively narrow barrier thereby causing vehicles to quickly assume positions in the parallel sections.

1,401,192. CHUCK. ROBERT F. RUNGE, Philadelphia, Pa., assignor to The Hess-Bright Manufacturing Company, a Corporation of Delaware. Filed Apr. 25, 1919. Serial No. 292,630. 8 Claims. (Cl. 274—8.)

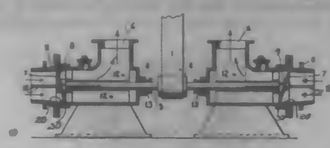


1. In a chuck, the combination of a chuck body provided with a work seat, a work clamping plate extending across the work seat in front of the same, an actuating plate for the clamping plate fixedly connected thereto at opposite sides and movable freely relatively to the chuck body to and fro axially of the chuck in a rectilinear path, and means sustained by and movable relatively to the chuck body and connected with the actuating plate for moving the same to and fro.

1,401,193. PROPELLER-PUMP. MARX PETER SCHETZEL, Oakland, Calif. Filed Sept. 18, 1917. Serial No. 191,935. 1 Claim. (Cl. 253—179.)

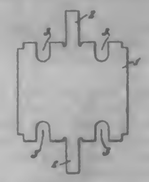
A propeller pump including a housing having an inlet and an outlet, the inlet end of said housing being en-

largest and forming a socket bearing, a shaft journaled in said housing, a propeller on said shaft, said propeller including a ring at the outer edge of its blades which



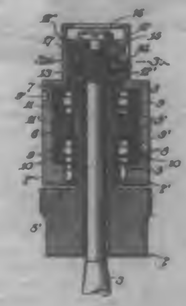
ring is journaled in said socket bearing and a nipple secured to the inlet end of said housing with its inner end adjacent the outer edge of said propeller ring to hold the propeller in said socket bearing.

1,401,194. COUPLING-CHAIN. EDOUARD SEIGNOL, Neuilly-sur-Seine, France. Filed Jan. 23, 1920. Serial No. 353,643. 2 Claims. (Cl. 64—30.)



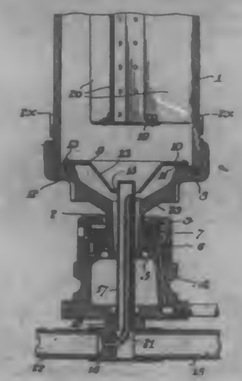
2. In a flexible shaft of the kind consisting of alternate wire hook members and cylindrical links, a link comprising a hollow cylindrical body formed by rolling a sheet metal blank having at each end a pair of notches adapted to engage and transmit rotation to a wire hook, and a transverse member at each end of said body and integral therewith, said members being formed by bending projections integral with said blank at right angles to the cylindrical wall of said body and into the plane of the edge of the blank.

1,401,195. BEARING. DAVID T. SHARPLES and GERALD D. GROSNER, West Chester, Pa., assignors to The Sharples Specialty Company, West Chester, Pa., a Corporation of Delaware. Filed Apr. 25, 1919. Serial No. 292,559. 4 Claims. (Cl. 64—48.)



4. The combination of a frame, a sleeve detachably connected with said frame, a plurality of rings having external races fixed to said sleeve, a plurality of rings having internal races surrounding respective rings aforesaid, anti-friction devices engaged in complementary races aforesaid, driving means fixed to said second named rings, a spindle extending through said sleeve and elastic means connecting said driving means with said spindle whereby irregular movements of said spindle are absorbed.

1,401,196. CENTRIFUGAL MACHINE. PHILIP T. SHARPLES, St. Davids, Pa. Filed July 14, 1919. Serial No. 310,661. 4 Claims. (Cl. 233—21.)



1. In a centrifugal machine, the combination of a revoluble bowl, a diaphragm in the bottom of said bowl and means for delivering different substances through the bottom of said bowl on opposite sides of said diaphragm.

1,401,197. SPINDLE FOR CENTRIFUGAL MACHINES. PHILIP T. SHARPLES, St. Davids, Pa. Filed Aug. 6, 1919. Serial No. 315,682. 4 Claims. (Cl. 64—48.)

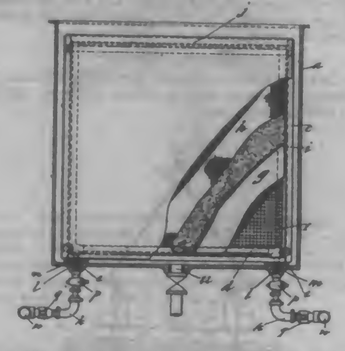


4. The combination with a suspended spindle provided with a bearing member having a curved surface and a bowl having a stub-spindle, of a coupling member having a universally movable engagement with said curved surface and a detachable engagement with said stub-spindle, and means comprising a device connecting said members whereby said spindle is adapted to revolve said bowl positively and a spring adapted to act in opposite directions on said bearing member and stub-spindle to restrain said universal movement.

1,401,198. PACKING MATERIAL. JAMES H. SHAW, Oakley, Calif. Filed May 15, 1920. Serial No. 381,668. 1 Claim. (Cl. 106—8.)

As a new article of manufacture, a packing material consisting of unpressed wood paper pulp formed into various shapes and sizes and thoroughly dried.

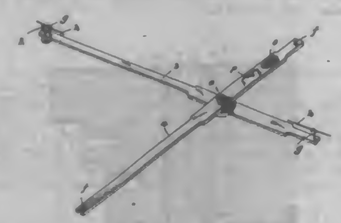
1,401,199. FILTRATION OF SUGAR LIQUORS. GEORGE WILLIAM SYDNEY SIMPSON, London, England, and ROBERT F. LYLE, Greenock, Scotland. Filed June 24, 1918. Serial No. 241,587. 9 Claims. (Cl. 210—203.)



1. A process of filtering sugar liquor which consists in passing the liquor through a layer of one or both of the mosses known as sphagnum and leucobryum.

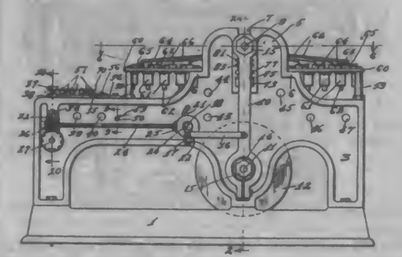
7. A filter for sugar liquors comprising in combination a container having porous walls including a cloth of a texture adapted to retain coarse and slimy impurities while passing finer substances and a filling of sphagnum or leucobryum.

1,401,200. PROTRACTOR FOR LAYING OFF LINES, ANGLES, AND ELEVATIONS IN BUILDING AND SIMILAR WORK. ARTHUR R. SMITH, New Albany, Ind. Filed Jan. 20, 1921. Serial No. 438,768. 11 Claims. (Cl. 33—46.)



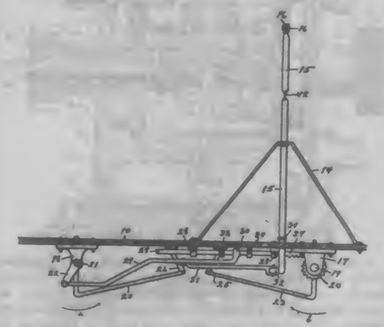
1. In a device of the class described the combination with an elongated member, of means thereon for supporting it from and below a stretched wire or cord in a definite fixed position on a vertical plane therewith, a transverse member pivoted to said elongated member to turn horizontally thereon the portions extending on opposite sides being such as to balance each other, and circularly arranged scales carried by said members and concentric with the first point to indicate the angular relations of the members.

1,401,201. MUSIC-ROLL-PERFORATING MACHINE. HAROLD J. SMITH, Chicago, Ill., assignor of one-half to Henry F. Baker, Chicago, Ill. Filed Feb. 19, 1920. Serial No. 360,020. 6 Claims. (Cl. 164—115.)



1. In a perforating machine the combination with a die mechanism, of a punch mechanism adjustably mounted to co-act therewith, said punch mechanism having vertical and horizontal openings therein, each of said horizontal openings meeting and extending beyond one of said vertical openings and each of said vertical openings meeting and extending beyond one of said horizontal openings, whereby said openings are in pairs and the openings of each pair cross each other, cutter knives adjustably carried by said punch mechanism and slidable in said vertical openings, a plurality of pins, mechanisms connected with said pins for actuating the same, and means controlling the operation of said mechanisms to cause said pins to slide into said horizontal openings to co-act with said cutter knives to cause the same to cut.

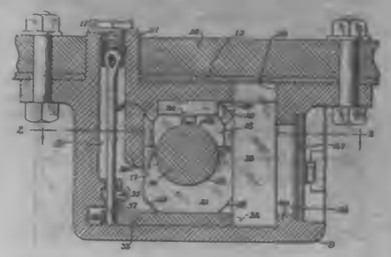
1,401,202. DOOR-OPERATING MEANS. JOSEPH DEVLIN SMITH, Marshalltown, Iowa. Filed Mar. 21, 1921. Serial No. 454,154. 8 Claims. (Cl. 268—9.)



1. Door operating means, comprising a rock shaft, shafts arranged in vertical position adjacent hinged margins of the doors, bent levers fixed to said shafts, pivotal connections between said levers and the free marginal portions of the doors, a pinion on one of said shafts, a crank arm on the other of said shafts, a rack bar slidably mounted and having a toothed portion in mesh with said pinion, a pitman pivoted at one end to said crank arm and operatively connected at its opposite end to said rack

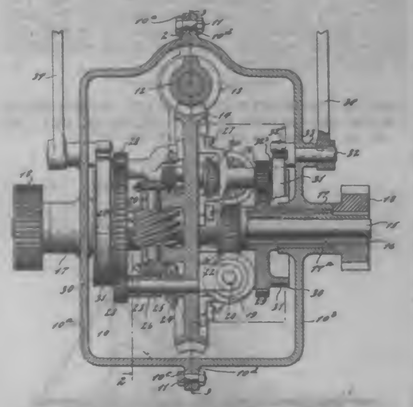
bar, said rock shaft being formed with a crank arm pivotally connected to and adapted to reciprocate said pitman.

1,401,203. CAR AXLE BEARING. JOHN R. STEPHENS, St. Louis, Mo. Filed Sept. 2, 1920. Serial No. 407,652. 9 Claims. (Cl. 64—10.)



1. In combination with a car axle box, an upper bearing block for the axle extending longitudinally thereof and adapted to bear upon the upper inner surface of the box, a lower relatively narrow support for the axle formed as a unitary part of said bearing block, and means for securing said combined bearing block and support in a relatively fixed position within the box.

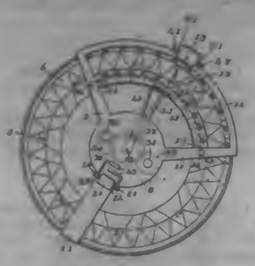
1,401,204. POWER-TRANSMITTING MECHANISM. NORMAN C. STOREY, Aguirre, Porto Rico, West Indies. Filed Sept. 27, 1918. Serial No. 255,895. 10 Claims. (Cl. 180—17.)



1. In combination, a driving member, two members driven independently by said driving member through positive connections comprising self-locking worms and gears, and means for positively rotating either worm and thereby the cooperating gear, and thereby changing the speed ratio between said driving member and the given driven member.

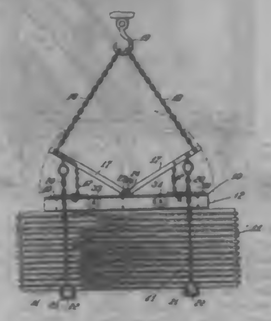
1,401,205. AZIMUTH FITTING FOR MARINERS' COMPASSES. ERNEST ALFRED SUTER, Ancoats, Manchester, England. Filed Aug. 9, 1919. Serial No. 316,463. 2 Claims. (Cl. 33—224.)

1. A compass corrector comprising a frame, a graduated arc carried by said frame, means to mount said frame on a compass bowl so that said arc and compass card will be concentric, a pair of needle pointers pivoted to the



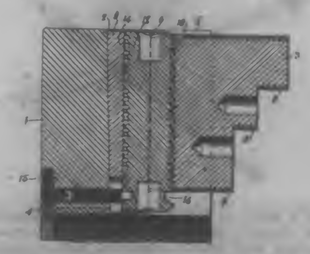
frame and cooperating with said arc and with the compass card, one to indicate the true bearing and the other to indicate the compass error as a direct reading.

1,401,206. LUMBER-CRADLE. EDWARD G. SWARTZ, New Orleans, La. Filed May 18, 1920. Serial No. 382,428. 12 Claims. (Cl. 294—74.)



1. A lumber cradle comprising, in combination, a frame adapted to rest upon the top of the load, an arm hingedly connected to the frame, a suspension device and lifting means both connected to the free end of the arm.

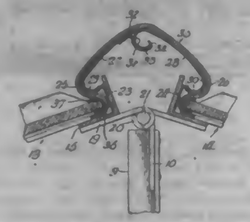
1,401,207. CHUCK. CHARLES F. SWISSHABEL, Dayton, Ohio. Filed Feb. 18, 1920. Serial No. 359,738. 11 Claims. (Cl. 279—112.)



1. The combination with a chuck body, of a groove in said body having upwardly and inwardly inclined walls and

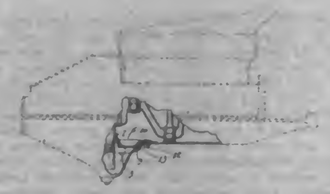
the bottom thereof inclining inwardly toward the center of the chuck, a jaw operable in said groove and having opposite inclined surfaces cooperating with the inclined surfaces of the groove, and an adjusting member interposed between the bottom of the groove and said jaw and tapered to conform with the inclination of the bottom of the groove, and means to adjust said member longitudinally to raise or lower the jaw relative to the bottom of the groove.

1,401,208. RIDGE CONSTRUCTION FOR SKYLIGHTS AND THE LIKE. JOSEPH SILVAN, Chicago, Ill. Filed Dec. 8, 1920. Serial No. 429,076. 5 Claims. (Cl. 108—16.)



1. A ridge construction of the kind described, comprising in combination with a swinging section, a second section, a flexible ridge strip connected at its margins to the margins of said sections, and means carried by said sections for supporting said ridge strip from beneath in all positions of said swinging section.

1,401,209. TRAY. JAMES ARTHUR THOMPSON, Rushville, Ill. Filed Sept. 26, 1921. Serial No. 503,232. 4 Claims. (Cl. 129—108.)

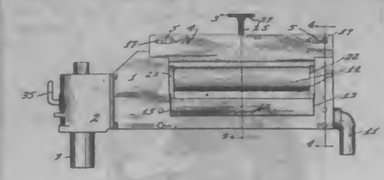


1. A tray comprising bottom, side and end walls, the side and forward end walls being shaped to conform with the inner surface of the crank case of the motor of a Ford automobile when the tray is disposed horizontally therein beneath the No. 4 or rearmost cylinder, the forward end wall being extended and terminated in a depending lip whereby the tray may be swung upwardly and forwardly to permit of its removal from the crank-case.

1,401,210. CLOTHES-WRINGER. GEORGE R. TOWNSEND, Winchester, Mass., assignor, by mesne assignments, to Gilbert & Eden Corporation, a Corporation of Delaware. Filed May 7, 1920. Serial No. 379,511. 2 Claims. (Cl. 68—32.)

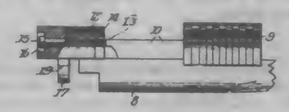
1. The combination with a clothes wringer, of blocks therein, one of said blocks having a drain passage there-

through, a drain trough in said wringer between said blocks, tie bolts connecting said blocks for holding said



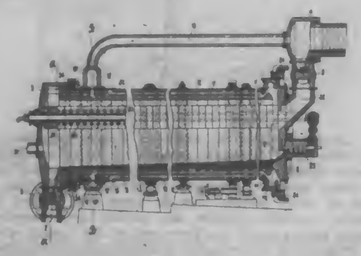
drain trough clamped in position, and a drain spout secured on said passaged block to permit the escape of a liquid from said trough.

1,401,211. CHAIN GRATE. VINCENT V. VEENSCHOTEN, Erie, Pa., assignor to Northern Equipment Company, Erie, Pa. Filed Sept. 20, 1919. Serial No. 325,189. 1 Claim. (Cl. 110—40.)



A grate bar comprising a body portion, a head mounted on one end of said body portion, and longitudinal securing ribs mounted on said body portion, in combination with a plurality of fuel supporting keys slidably secured on said ribs, a filler member mounted between said head and the adjacent ends of said ribs, and a bolt passing through said head and screwed into said member, the space between the said head and the ends of said ribs being greater than the width of each of said keys.

1,401,212. ROTARY KILN. STEFANUS JOHANNES VERMARS, Delft, Netherlands, assignor to Syndicaat Electro-Staal, The Hague, Netherlands. Filed Apr. 26, 1920. Serial No. 376,759. 17 Claims. (Cl. 263—34.)



1. A rotary kiln comprising a gas-tight barrel, means for rotating said barrel, combustion channels in the wall of said barrel, and means for supplying gas and air for combustion in said channels for heating the kiln without said combustion gases entering the interior thereof.

1,401,213. PHONOGRAPH-NEEDLE SHARPENER. AXEL W. WAHLIN, Chicago, Ill., assignor to Gustave Lidseen, Chicago, Ill. Filed Apr. 30, 1920. Serial No. 377,784. 6 Claims. (Cl. 144—146.)



1. The combination with a phonograph, of a needle sharpener adapted to be adjustably engaged with the phonograph turntable shaft to permit sharpening of the playing end of a needle held in position by the phonograph needle holder.

1,401,214. PINCH BAR. ARTHUR E. WATSON, Cheboygan, Mich. Filed Nov. 8, 1920. Serial No. 422,597. 2 Claims. (Cl. 254—36.)

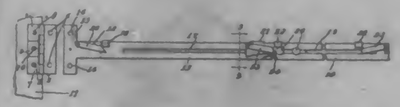


1. An appliance of the character stated, comprising a bar composed of telescopic sections, the upper or tubular member having an integral hand hold at the upper end, the other member having its lower end formed into a pinch or lever portion and its upper end shaped for slidably receiving thereon the tubular lever members against pulling apart, the lower end of the tubular member terminating in externally threaded flexible extensions, the corresponding upper end of the other member having oppositely flattened portions whereby to form shoulders, and an internally threaded coupling cap that slidably engages the shouldered end members and the threaded flexible extensions whereby to crowd the said extension against the opposite flattened faces of the opposing solid member when the coupling cap is screwed home.

1,401,215. MOLD FOR METAL-FOUNDERS' USE AND COMPOSITION OF MATTER FOR MAKING SAME. HAROLD G. WEIDENTHAL, Cleveland, Ohio; Louise S. Weidenthal executrix of said Harold G. Weidenthal, deceased. Filed July 29, 1920. Serial No. 399,705. 7 Claims. (Cl. 25—158.)

1. A composition of matter for the manufacture of permanent molds for metal founders' use consisting essentially of calcined bauxite crushed to graded sizes mixed with graphite and a suitable binder.

1,401,216. COMMERCIAL CARD AND POSTER HOLDER. CHARLES WEIDNER, Frankfort, Ind. Filed Sept. 2, 1921. Serial No. 497,962. 1 Claim. (Cl. 40—125.)



A hanger including a bracket member having hinged sections, one of said sections having openings, the opposite section having pins, a hanger arm comprising adjustable sections, one of said hanger arm sections having a T head provided with openings, said openings adapted to accommodate the pins to secure the hanger arm to the bracket, and spring arms carried by the adjustable sections for securing articles to the adjustable sections.

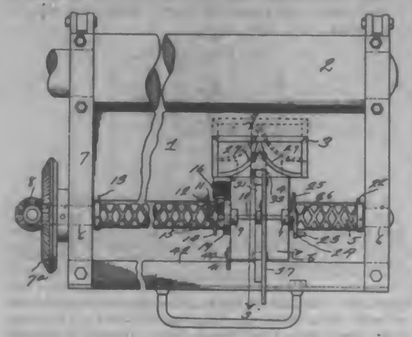
1,401,217. SWITCHBOARD-PLUG. ALFRED H. WEISS, Wilmette, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed May 17, 1918. Serial No. 235,057. 6 Claims. (Cl. 173—361.)



6. A switchboard plug of the character described including an elongated metallic member provided with an enlarged end portion, a sleeve adapted to fit onto said metallic member and to abut against said enlarged end portion, said metallic member being provided with an annular groove and a pair of orifices extending below the inner circumferential diameter of said groove, a spring ring adapted to fit into said groove to prevent displacement of said sleeve, and integrally formed portions for said spring ring adapted to fit into said orifices of said metallic member to secure said ring in position against displacement of the pressure of said sleeve and also to prevent the rotation of said ring in said groove.

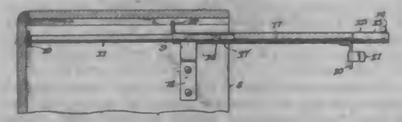
1,401,218. MECHANICAL INKING APPARATUS. CHARLES F. WELDON, Delavan, Wis. Filed May 26, 1921. Serial No. 472,661. 2 Claims. (Cl. 101—364.)

1. The combination with an ink fountain of a printing press having a fountain roller rotatably mounted therein, of an ink agitator disposed in said fountain, said agitator comprising a carriage, said carriage being longitudinally movable in both directions on an oppositely spiral grooved feed shaft, means carried by the carriage for coöperating with the opposite grooves for moving the carriage during the rotation of the feed screw, tripping fingers carried by the ends of the feed shaft and coöperating with mechanism carried by the carriage for reversing the direction of the movement of the carriage adjacent the ends of the feed screw, an agitating element carried by the carriage and slidably mounted thereon at right angles to the fountain roller, means carried by the carriage and actuated by the reversing mechanism for moving the agitating element to-



ward or away from the fountain roller when it reaches the end of the feed screw and means for rotating said feed screw.

1,401,219. TRUNK-FIXTURE. GEORGE HENRY WHEARY, Racine, Wis. Filed Nov. 5, 1917. Serial No. 200,292. 2 Claims. (Cl. 211—16.)



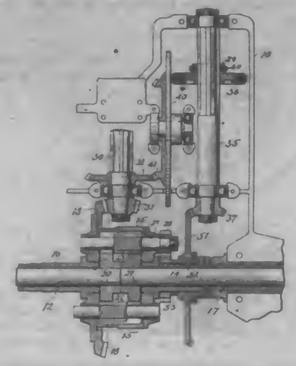
2. A trunk fixture, comprising a fixed horizontal track member, an extensible track member hinged to the outer end thereof and movable to a position in alinement therewith, and a tubular member slidably mounted on the fixed track member and movable outwardly therefrom to maintain the extensible track in extended alined position, said tubular member having a rear end outwardly projecting portion for causing garment hangers mounted thereon to move therewith and also having at its forward end a downwardly extending handle finger provided with yielding means for holding the extensible track in angular position.

1,401,220. GARMENT LEG-SUPPORTER. HELEN K. WHITE, Alameda, Calif. Filed Jan. 17, 1921. Serial No. 437,676. 4 Claims. (Cl. 2—144.)



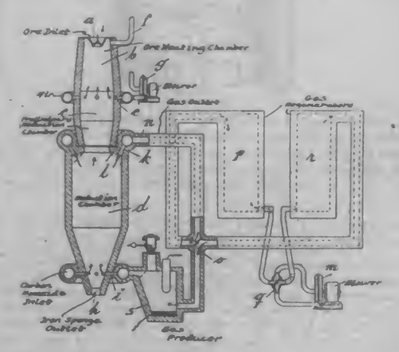
1. The combination with a trousers leg and a separate garter, of a band comprising a loop arranged on the leg and in which said garter may be engaged.

1,401,221. DRIVING AND STEERING MECHANISM FOR MOTOR-VEHICLES. ROLLIN H. WHITE, Cleveland Heights, Ohio, assignor to The Cleveland Tractor Company, Euclid, Ohio, a Corporation of Ohio. Filed Jan. 22, 1919. Serial No. 272,414. 9 Claims. (Cl. 180—17.)



1. In power transmitting mechanism for track laying tractors and other forms of motor vehicles, the combination of two alined driven shafts, differential gearing therebetween, which differential gearing includes compensating pinions, means to rotate the differential gearing, and independent means to rotate a compensating pinion in either direction about its own axis and to thereby cause either of said driven shafts to rotate faster than the other.

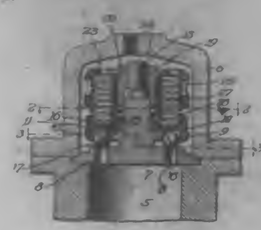
1,401,222. METHOD OF AND FURNACE FOR REDUCING ORES AND OXYGEN COMPOUNDS UTILIZED AS ORES. FRANS MARTIN WIBERG, Falun, Sweden. Filed June 24, 1919. Serial No. 306,367. 5 Claims. (Cl. 75—14.)



1. A method for reducing ores or oxygen compounds utilized as ores consisting in passing the ore through a chamber, moving a carbon monoxid gas through the chamber in a direction opposite to that of the direction of travel of the ore, causing the gas current, before it has passed through the whole ore mass and before its reducing capacity is wholly utilized, to be divided in such manner that part thereof is removed from the chamber, regenerating the carbon monoxid in the removed portion of the gas and

again introducing the same into the container for use as a reducing gas, allowing the remaining part of the gas to continue through the ore mass and to exert a further reducing action on the said mass at a temperature suitable for the reduction, and in heating the ore to said temperature by introducing a material to the combustible constituents remaining in the latter part of the gas to cause combustion.

1,401,223. MULTIPLE-BALL VALVE. FRED WITTENMEIER, Chicago, Ill. Filed Mar. 31, 1919. Serial No. 286,291. 4 Claims. (Cl. 251—144.)



1. In a valve of the class described, the combination of a seat member having a plurality of valve openings therein, a plurality of balls for closing said openings, and means for rotating said balls as the same are moved from closing to open position.

1,401,224. BREEZE-ARRESTER AND THE LIKE. ERNEST C. WOODIN, Chicago, Ill. Filed Sept. 27, 1920. Serial No. 413,251. 2 Claims. (Cl. 183—93.)



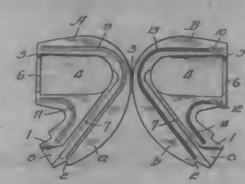
1. The combination with a circular stack, of a breeze arrester comprising a continuous conical hood having the angle of its walls at least 30° from the horizontal and unperforated, the base of the hood being at least as great in diameter as the diameter of the stack, means for supporting the hood above the stack and in alinement therewith and with its lower edge spaced above the upper edge of the stack to provide a clear opening for the discharge of gas from the stack into the atmosphere without reversal of direction, a discharge pipe connected to the upper end of the hood centrally thereof, said discharge pipe having a diameter adjacent to the hood at least one-fifth the diameter of the stack, there being no shoulder facing against the upward flow of material at the point of connection of the discharge pipe with the hood, and there being no direct connection from the stack to the discharge connection, substantially as and for the purpose set forth.

1,401,225. COOLING-MACHINE. OSCAR WOODRUFF, Babylon, N. Y., assignor to Remington Accounting Machine Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 19, 1920. Serial No. 431,131. 5 Claims. (Cl. 295—56.)



5. The combination with stationary framework, of a truck having a frameway at a carrier pivoted between its ends in said framework, two rolls, one at each end of said carrier, and studs fixed in said carrier and on which said rolls are journaled.

1,401,226. TOBACCO-PIPE. ROLAND T. WRIGHT, St. Louis, Mo., assignor of one-half to John H. Buechler, St. Louis, Mo. Filed Mar. 8, 1920. Serial No. 364,920. 1 Claim. (Cl. 131—12.)



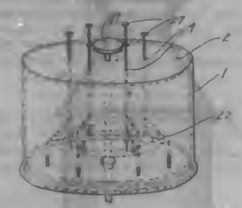
In combination with a removable pipe stem having a smoke passage and a socket formed at one end thereof, a pipe bowl comprising halves provided with cavities hinged) united at their base, a bowl stem section having a smoke passage communicating at one end with the bowl cavity, a reduced bowl stem section receivable in the socket of the removable pipe stem, a removable tobacco bowl receivable in the pipe bowl cavities, a shoulder formed at the upper end of the bowl halves to retain the removable tobacco bowl in position when the bowl halves are in their closed position, yieldable packing strips interposed between the pipe bowl halves and integral stem sections thereof, and a retaining ring removably mounted upon the upper end of the pipe bowl halves to assist the socket end of the pipe stem to retain the pipe bowl halves in their closed position.

1,401,227. LINGERIE-STRAP RETAINER. HENRIETTA M. WYETH, South Hanson, Mass. Filed Oct. 21, 1920. Serial No. 418,412. 2 Claims. (Cl. 241—12.)



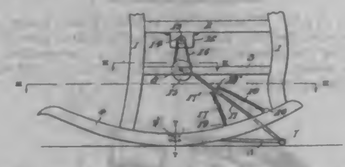
1. A detachable retainer adapted to be applied to shoulder straps of lingerie to hold them in position, said retainer consisting of an elastic body portion extending from one strap to the other, and non-metallic fastening devices attached to the elastic body portion, said devices being arranged to encircle the shoulder straps.

1,401,228. COMBINATION ROTARY LOCK. VINCENT M. YOUNG, Mason, Iowa. Filed July 30, 1920. Serial No. 399,878. 1 Claim. (Cl. 70—64.)



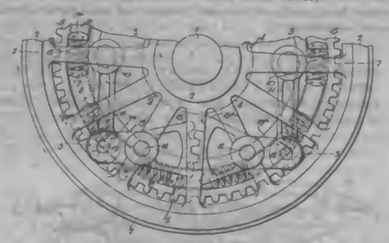
A combination rotary lock of the character described, comprising a hollow, cylindrical case, closed at the top end and having a recessed, annular seat formed around the open end of the case; a key plate rigidly mounted within the case adjacent the open, bottom end and parallel to the top; a lever ring rigidly mounted in the case immediately above the key plate; a circular lock plate adapted to seat in the recessed open end of the case; central and vertically alined lock stem holes in the top and key plates; a lock stem permanently attached to the center of the lock plate and extended up through said lock stem holes in the key and top plates; an inwardly disposed circle of holes in the top plate; an inner circle of alined key holes in the key plate; an inner circle of alined sockets in the lock plate; an outer circle of key holes in the key plate; an outer circle of alined sockets in the lock plate; push rods slidingly extended down through the top holes, and having threaded sockets in their lower ends; threaded keys adapted to screw into said sockets and to pass through the holes in the key plate and down into the inner circle of sockets in the lock plate; rocking levers pivotally mounted on the lever ring, and their inner ends pivotally engaging the lower ends of the push rods, and having threaded sockets in their outer ends; threaded keys adapted to engage said sockets and to pass through the holes in the key plate and down into the inner circle of sockets in the lock plate; and springs to normally hold the push levers in their uppermost position.

1,401,229. ROCKING-CHAIR ATTACHMENT. ANTON ZENARD, Jersey City, N. J. Original application filed Mar. 9, 1921, Serial No. 451,001. Divided and this application filed Aug. 16, 1921. Serial No. 492,882. 1 Claim. (Cl. 155—188.)



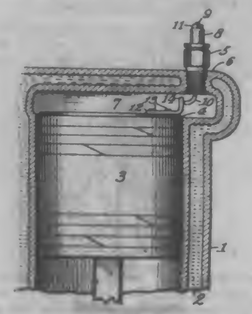
In a rocking chair of the type described, a music box carried by the underneath portion of the chair seat, a shaft projecting outwardly of the music box and transversely of the chair body, a pulley upon the end of the shaft, a floor engaging lever pivoted to an inwardly projecting pin upon one of the chair rockers, a crank shaft journaled transversely of the chair, a pitman rod extending between the free end of the floor engaging lever and the crank portion of the shaft, a pulley wheel upon the crank shaft and immediately below the pulley wheel of the music box shaft, driving means between the two pulleys, and springs connected to the pitman rod and chair rocker at opposite sides of the pitman rod for maintaining engagement between the lever and the floor.

1,401,230. QUILL-DRIVE FOR ELECTRIC LOCOMOTIVES. GEORGE C. ANDT, Lansdowne, Pa., assignor to The Baldwin Locomotive Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 4, 1921. Serial No. 512,832. 2 Claims. (Cl. 105—131.)



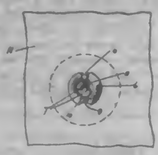
2. The combination of an axle; a quill surrounding the axle; a hub mounted on the quill; a gear ring carried by the hub; springs located between the gear ring and the hub; pins on the hub; a driving wheel; pins thereon; levers pivotally mounted on each pin of the driving wheel; and links connecting the levers with the pins on the hub, the two levers intermeshing so that motion imparted to one lever will be imparted to the other.

1,401,231. CONTACT FOR SPARK-GAPS. AUGUST EUGENE ANDERSON, Montclair, N. J. Filed July 9, 1921. Serial No. 483,510. 5 Claims. (Cl. 123—143.)



1. In an explosion engine, a stationary electrode and a traveling electrode adapted to move into sparing relation with said stationary electrode, and means adapted automatically to wipe said traveling electrode when out of sparking-relation to said stationary electrode.

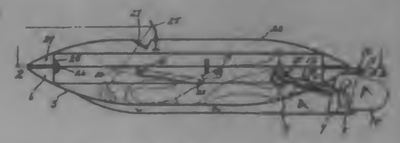
1,401,232. BUTTON-FASTENER. GEORGE F. ARMSTRONG, Sioux City, Iowa. Filed July 19, 1920. Serial No. 397,248. 1 Claim. (Cl. 24—90.)



A fastener for securing buttons to goods, consisting of a concavo-convex disk adapted to be placed with its concave side against the goods opposite the button, and having a central depressed portion in the convex side, provided with

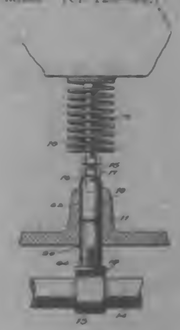
two openings and a U-shaped wire adapted to be inserted through the bottom, goods and said openings, the disk being notched peripherally, whereby the end portions of the wire may be twisted together within the recess, then bent laterally into the notched periphery, and then wound in opposite directions around the wire between the goods and disk.

1,401,233. MANUALLY-PROPELLED LIFE-SAVING DEVICE AND ATTACHMENT FOR BOATS. EPHRAIM BELLMAN, Evansville, Wis. Filed Apr. 28, 1921. Serial No. 464,574. 2 Claims. (Cl. 9—18.)



1. A boat of a size and shape to conveniently accommodate a man lying prone therein, a revolvable propeller mounted therein, pedals operatively connected to said propeller to revolve the same, and means for adjusting the propeller and pedals longitudinally to accommodate persons of different height.

1,401,234. VALVE-TAPPET. FREDERICK H. RICHARDS, New Bedford, Mass. Filed Jan. 12, 1921. Serial No. 436,848. 2 Claims. (Cl. 123—90.)



1. A valve tappet having a body presenting a smooth external surface of one diameter throughout, formed in two parts, the lower part of which is cylindrical and has a lower closed and flanged cam engaging end and the upper part of which has an upper adjusting screw and a reduced depending extension which slidably interfits the hollow lower part and forms a shoulder opposing the upper end of the lower part, and a spring carried between the lower end of said extension and the closed base of the hollow part whereby to place the parts under compression in use, said lower hollow part having an oil intake opening laterally through its wall immediately above its flanged lower end to freely receive oil below the lower end of the extension of the upper part.

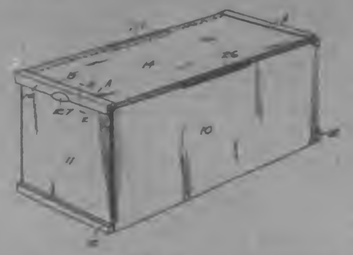
1,401,235. TAG-LOCKING DEVICE. ASTON HOBIN, Chesterton, Ind. Filed Apr. 14, 1919. Serial No. 289,836. 2 Claims. (Cl. 40—20.)

1. In a tag securing attachment comprising a support adapted to be secured to an article; a shoulder at one end of said support; brackets on the outer face of said shoulder; a hook on said support; a resilient member having its one end bent at an angle and engaging said brackets and the other end thereof crossing said hook; a



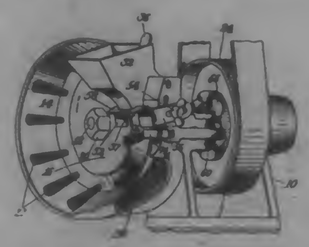
unit to said resilient member intermediate its ends; and means for securing said support to an article, substantially as described.

1,401,236. CLOSURE DEVICE FOR SHIPPING-CRATES AND THE LIKE. WILLARD H. DALZELL, Hubbard, Iowa. Filed Apr. 2, 1921. Serial No. 458,816. 2 Claims. (Cl. 217—60.)



1. In a device of the class described in combination with a crate and a lid therefor, a pair of socket members, each comprising a top wall, a bottom wall, a side wall and end walls, the end walls of each socket being yieldingly connected together so that the sockets may be placed on a crate and over the ends of the lid for holding the lid in position on the crate.

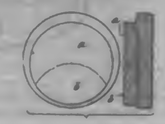
1,401,237. CEMENTING APPARATUS. LOUIS A. CASSERAIN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 28, 1918. Serial No. 245,847. 36 Claims. (Cl. 91—39.)



3. In a shoe cementing apparatus, a bottom rest, and a flexible, revolvable applying member extending from one side of the bottom rest to the other and movable in its revolution past said bottom rest, said movement being in a direction at an angle to the extension of the applying member by the bottom rest.

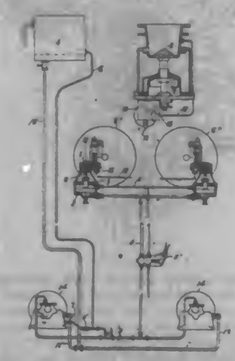
29. In a cementing apparatus, a shaft, a brush mounted thereon, a member for rotating the shaft, said member being provided with a cam surface, and a feeding lever for coöperation with the brush and actuated by the cam surface.

1,401,238. MULTIFOCAL LENS. GEORGE A. CLEMENT, Mount Vernon, N. Y., assignor to General Optical Company, a Corporation of New York. Filed Mar. 31, 1921. Serial No. 457,239. 4 Claims. (Cl. 88—54.)



1. The method of making a multifocal lens which consists in placing together edge to edge a plurality of plates of glass of different indices of refraction, then superposing said plates face to face upon another plate of glass having an index of refraction the same as that of one of the first mentioned plates and shaping the lens to include a portion of all of the plates.

1,401,239. ENGINE STOP-GEAR. DAVID COCKBURN and DONALD MACNICOLL, Cardonald, near Glasgow, Scotland. Filed Dec. 9, 1919. Serial No. 343,615. 4 Claims. (Cl. 137—139.)

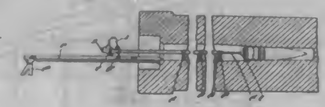


1. In an engine stop gear, the combination with an emergency valve operable by fluid pressure, a relay valve serving to control the escape of fluid pressure medium to effect operation of said emergency valve, a liquid conduit system, a cylinder connected to said system, a storage tank at a higher level than said cylinder, said tank having an overflow discharging into said system, and a piston movable in said cylinder, said piston connected to said relay valve, one side of said piston exposed to the pressure due to the head of liquid between the point of overflow from said tank and said cylinder, said piston maintaining said relay valve closed during the continuance of the overflow but permitting said relay valve to open on cessation of the overflow.

1,401,240. FIRE-EXTINGUISHING LIQUID. BENJAMIN I. COMSON, Minneapolis, Minn. Filed Jan. 31, 1920. Serial No. 355,356. 3 Claims. (Cl. 23—5.)

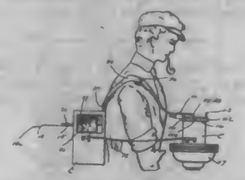
1. A component for a foam producing fire extinguishing charge, consisting of the product produced in the tannin process of tanning known as phlobaphenes combined with a gas producing chemical substance, said combination when associated with a complemental composition to produce fumes non-supporting to combustion and foam.

1,401,241. ORDNANCE. ARTHUR TREVOR DAWSON, Westminster, London, and JAMES HORNE, Barrow-in-Furness, England, assignors to Vickers Limited, Westminster, London, England. Filed Sept. 4, 1920. Serial No. 408,320. 3 Claims. (Cl. 89—1.)



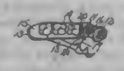
1. For use with ordnance, a device for spraying a substance into the bore of the gun, this device comprising in combination a container for said substance and a nozzle operating on the injector principle by means of fluid under pressure, a valve for controlling the supply of pressure fluid to said nozzle, and means for simultaneously moving said nozzle to its operative position and said valve to its position to admit pressure fluid to said nozzle.

1,401,242. TOPOGRAPHICAL RECORDER. DIMITRI SENSAUD DE LAVAUD, New York, N. Y. Filed Jan. 3, 1919. Serial No. 269,513. 15 Claims. (Cl. 234—8.)



1. In a surveying instrument, the combination comprising means for measuring distance traversed, means for measuring the azimuth, means for measuring the vertical angle, means for automatically making a simultaneous record of said measurements at given points of a course, and operating means for the recording means including a reel, a cable wound on the reel and adapted to have its free end attached to an object fixed in the field to be surveyed, and operative connections between the reel and the recording means; said azimuth measuring means including a compass card, and there being provided a manually rotatable card marked similarly to the compass card, with said rotatable card mounted above and for concentric rotation with the compass card, and an operative connection between said rotatable card and the recording means.

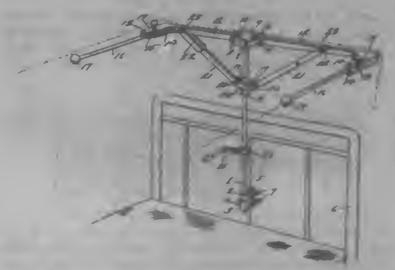
1,401,243. ARTIFICIAL DENTURE. FRANK L. EAGER, Waterbury, Conn. Filed Jan. 12, 1920. Serial No. 350,837. 3 Claims. (Cl. 32—12.)



1. A denture including a saddle having its undersurface smooth and unbroken and shaped to fit and rest upon a

gum, rigid, unbending, relatively movable members shaped to fit a tooth, an artificial tooth secured to said saddle, and means for clamping said members in close contact with a tooth to retain said saddle in place.

1,401,244. BEDCLOTHES SUPPORT. FRANK EASTLUND, Omaha, Nebr. Filed Apr. 7, 1921. Serial No. 459,265. 2 Claims. (Cl. 5—41.)



1. The combination with a bed, of a bed clothing support therefor, said support comprising a vertically disposed rod, clamping means for clamping the lower end of said rod to the bed, outwardly extending arms having their inner ends pivotally connected to the upper end of said rod, arms pivotally connected to the outer ends of the pivoted arms and adapted to move in a horizontal plane, a vertically adjustable sleeve carried by the rod, upwardly and outwardly extending braces pivoted to the vertically adjustable sleeve, the upper ends of said braces being pivotally connected to the outwardly extending arms carried by the upper end of the rod.

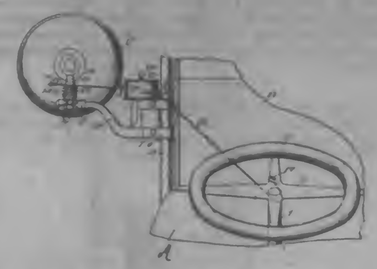
1,401,245. NON-SKID DEVICE FOR AUTOMOBILES. ADOLPH ERAT, Easthampton, Mass. Filed Feb. 11, 1920. Serial No. 357,895. 1 Claim. (Cl. 291—28.)



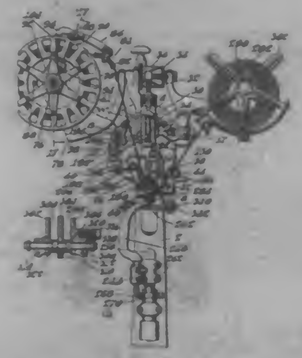
A non-skid device for automobiles consisting of a sand receptacle having a single outlet and diverging distributing pipes connected thereto for distributing sand in advance of the wheels of the automobile, a valve disk located in the outlet for opening and closing the same, a lever connected with said valve disk, a shaft adapted to be mounted on the dash board of the automobile, a crank arm connected with said shaft, a flexible connection between the crank arm and the lever and a dial for indicating on the dash board the position of the valve disk relative to the outlet.

1,401,246. DIRIGIBLE SPOTLIGHT. WILLIS SMITH FARNSWORTH and EARL HINMAN FARNSWORTH, San Francisco, Calif. Filed Nov. 8, 1920. Serial No. 422,481. 2 Claims. (Cl. 240—62.)

1. In combination with a steering wheel, a spot light, control means adapted to be detachably connected at one end to the spider of said wheel for moving said spot light in response to the movement of said steering wheel, and motion-reducing means whereby the distance moved through by said control means at its spot light actuating end is less than the distance through which it moves at its steering-wheel actuated end, said motion-reducing means comprising a pair of reels, one of said reels having a diameter smaller than the other, one end of said control means being connected to one of said reels and the other end of said control means being connected to the other of said reels.



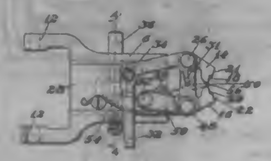
1,401,247. MACHINE FOR INSERTING FASTENINGS. GEORGE GOUDIE, Winchester, and FRED L. MACKENZIE, Beverly, Mass., assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 18, 1916. Serial No. 137,571. 21 Claims. (Cl. 1—28.)



1. In a string nailing machine, the combination with a fastening receiving device, of means for feeding into said device the end portion of a nail string in which the heads of the nails project from one side of the string, and a part cooperating with said device to sever the endmost nail from the string through a relative movement of said part and device acting to move the point of the second nail in the string toward the projecting portion of the head of the first nail in the string.

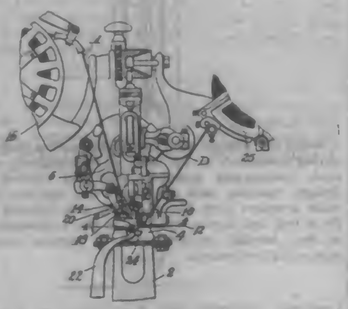
2. A string nail inserting machine having, in combination, nail inserting means, a reel upon which a coil of nail string may be carried, feeding mechanism arranged to engage the heads of the nails of the string to feed the nails of the string successively to nail inserting position, a brake operative to engage the reel to restrain movement thereof, and an elongated tubular member flared at its ends to facilitate the passage of the heads of the nails of the string therethrough and operatively connected to the brake to move the brake away from the reel under the influence of tension applied to the nail string by the feeding mechanism.

1,401,248. WORK-POSITIONING MECHANISM. GEORGE GOUDIE, Winchester, and FRED L. MACKENZIE, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 15, 1918. Serial No. 240,200. 21 Claims. (Cl. 1—32.)



1. In a machine of the class described, means for operating on a heel and normally stationary means adjustable to accommodate heels of different sizes for positioning the breast corners of the heel in different operative positions of the heel at substantially equal distances from the point of operation of the operating means on the heel.

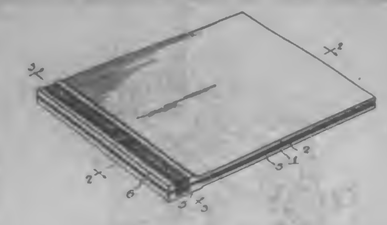
1,401,249. MACHINE FOR INSERTING FASTENINGS. GEORGE GOUDIE, Winchester, and FRED L. MACKENZIE, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 3, 1919. Serial No. 274,655. 20 Claims. (Cl. 1—28.)



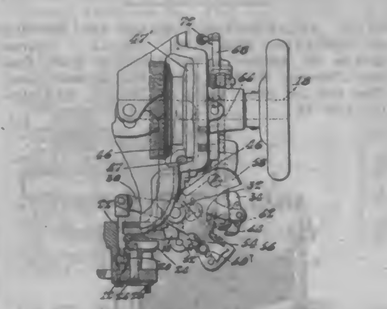
6. In a machine of the class described, means for guiding a shoe during the insertion of a row of nails in the shoe and means for inserting string nails into the shoe with the heads of the nails disposed transversely of the edge of the shoe, said inserting means comprising a throat, means for feeding a shoe past the throat, a nail string guide movable relatively to the throat and operable to conduct the endmost nail of a nail string into the throat, and a driver for forcing the nails into the shoe.

1,401,250. LOOSE LEAF BINDER. CHARLES GOLDSTEIN, Chicago, Ill., assignor to Philip V. Spinner. Filed Oct. 29, 1920. Serial No. 420,343. 3 Claims. (Cl. 129—36.)

1. A loose leaf binder comprising a binding strap, and cover members adapted to retain loose sheets therebetween, one of said cover members having a channel-like groove extending adjacent one edge thereof and adapted to receive the strap, and the other cover member being provided, adjacent one edge thereof, with a passage adapted to confine the strap.



1,401,251. FASTENER-SETTING MACHINE. JOSEPH GOULDBOURN, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 5, 1918. Serial No. 248,344. 13 Claims. (Cl. 218—15.)

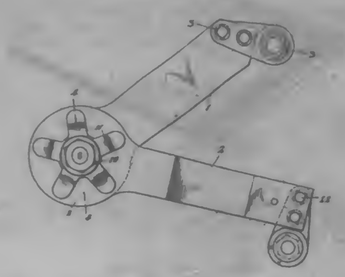


4. In a fastener setting machine, setting means comprising a frictionally positioned spindle adapted to be projected from and retracted within said setting means, means for controlling the projection of said spindle including a pivotally mounted member, means for locking said spindle controlling means in one position, work feeding means comprising a pair of pivotally connected links, means for controlling the path of movement of the point of connection of said links comprising a pivoted member, means for locking said pivoted member in a predetermined position, means for connecting said pivoted members, and manually operated means for moving said connecting means so as to move one or both of said controlling members according as one or both of them are free to move.

1,401,252. SPRING RETARDING DEVICE. EDWARD VASSALLO HARTFORD, Deal, N. J., assignor to Edward V. Hartford, Inc., New York, N. Y., a Corporation of New York. Continuation of application Serial No. 263,307, filed June 1, 1905. This application filed May 2, 1913, Serial No. 765,071. Renewed Sept. 22, 1919. Serial No. 325,529. 10 Claims. (Cl. 188—130.)

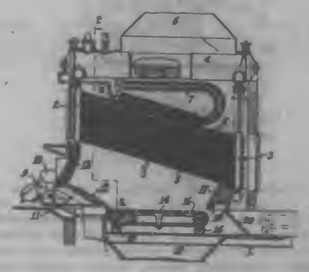
1. A shock absorber for vehicles having spring supporting means; the same comprising a device, the parts

of which move with a resistance or drag and means for attaching said device to relatively independently movable parts of a vehicle to modify the action of the spring supporting means, and means for adjusting or varying



the degree of reluctance or drag in the movement of the parts, said means comprising a spider-shaped spring associated with said parts to apply pressure at a plurality of equidistant points thereagainst.

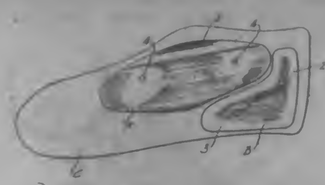
1,401,253. STEAM-BOILER FURNACE AND METHOD OF OPERATING THE SAME. HERMAN C. HEATON, Berwyn, Ill., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed May 24, 1917. Serial No. 170,611. 10 Claims. (Cl. 110—44.)



1. A fuel burning method comprising forcibly underfeeding fuel into the front portion of bed of burning fuel and therebeyond bodily carrying along the fuel bed rearward with substantially horizontal travel toward the discharge.

1,401,254. TWO-PIECE ARCH-SUPPORT FOR CORRECTING METATARSAL FOOT TROUBLES. EDMUND HEINTZE, St. Louis, Mo., assignor to Scholl Mfg. Co., Chicago, Ill., a Corporation of New York. Filed Nov. 4, 1920. Serial No. 421,679. 1 Claim. (Cl. 36—71.)

A device for the purpose described, consisting of a rigid longitudinal arch support, a separate and distinct rigid metatarsal arch support having a transversely-disposed portion arranged in advance of said longitudinal arch support, and a portion arranged at one side of said longitudinal arch support, and a piece of leather or other suitable material that carries said arch supports and



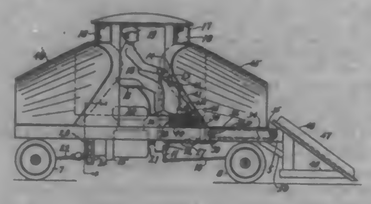
prevents them from coming in direct contact with the wearer's foot.

1,401,255. MOLD FOR MAKING FAN-BELTS. CASWELL D. HIMES, Fort Worth, Tex. Filed June 2, 1919. Serial No. 301,150. Renewed May 28, 1921. Serial No. 473,321. 1 Claim. (Cl. 18—42.)



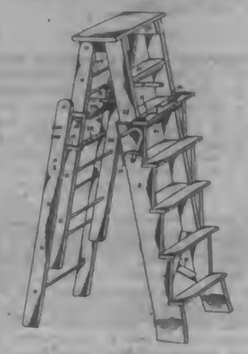
Molds for making belts comprising a ring body member having abutments in the sides of its periphery and separable coöperating members supported thereon having flanges engaging said abutments and spacing the separable members from the said body and forming a cavity for a belt and having cut-outs in the peripheries thereof in their meeting faces to form an annular recess for a separating instrument.

1,401,256. SNOWPLOW. NELS HILL, St. Paul, Minn. Filed Jan. 27, 1921. Serial No. 440,281. 7 Claims. (Cl. 37—57.)



1. A snow plow comprising a flat main frame with a flat snow scoop at its front end, a body mounted upon the main frame to rotate in a horizontal plane and having two reversely arranged, grooved snow deflecting boards one at each end of it, and means for turning and means for holding said body with either deflector in a forward direction so as to deflect laterally the snow taken up by the scoop, and means for supporting and for propelling forward the said main frame.

1,401,257. EXTENSION AND COMBINATION STEP-LADDER. WILLIAM HOCHSTALING, Chappaqua, N. Y. Filed Mar. 22, 1919. Serial No. 284,368. 2 Claims. (Cl. 228—21.)



1. A step-ladder comprising a step portion and a prop portion and means for securing the same together, consisting of hooks on one portion and eyes on the other and also a ladder stop on each portion, said stops being admitted to be locked together.

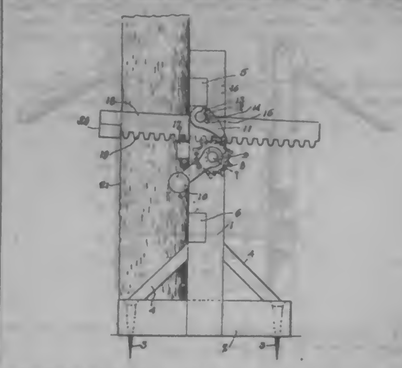
1,401,258. METHOD OF MAKING SHOES. WILLIAM HUBBARD, Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 28, 1920. Serial No. 354,716. 10 Claims. (Cl. 12—147.)



1. That improvement in methods of making shoes which consists in attaching an untrimmed heel having a toplift of approximately final shape, trimming the heel so as to make the first lift of the heel-body smaller than the toplift, detaching the toplift, applying a cover to the heel, and reattaching the original toplift in registration with its original position on the heel-body.

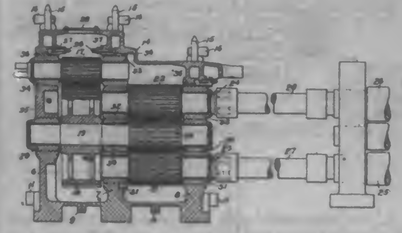
1,401,259. PORTABLE TREE-HOLDER. PETER J. IHRIG, Springfield, Ohio, assignor of one-half to Justus K. Ihrig, Springfield, Ohio. Filed May 16, 1921. Serial No. 470,151. 4 Claims. (Cl. 248—38.)

1. In a tree holder, the combination with a frame comprising a base, perpendicular uprights extending therefrom, a shaft longitudinally mounted in the uprights, and pinions near each end of the shaft, of a clamp having side bars mounted to slide in the uprights, racks on the side



bars adapted to engage the pinions on the shaft, and means to secure the clamp in adjusted positions to maintain its grip upon a tree.

1,401,260. GEAR-DRIVE FOR ROLLING-MILLS. LORENZ IVERSEN, Pittsburgh, Pa. Filed Aug. 15, 1917. Serial No. 186,272. 3 Claims. (Cl. 74—7.)



1. A gear train for a rolling mill comprising in combination vertically spaced roll driving gears, a shaft, a driving pinion mounted thereon and meshing with said gears, and alined therewith, a reduction gear mounted on said shaft, a driving pinion meshing with said reduction gear, bearings at each side of each of said gears and pinions, the bearings of vertically alined gears and pinions being superimposed, and a single retaining element for said superimposed bearings.

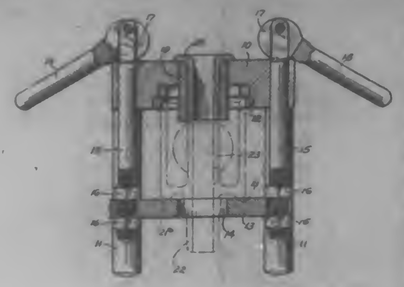
1,401,261. MOISTUREPROOF PAINT COMPOSITION. DON ANGELO JEROME, Florence, Italy. Filed June 4, 1920. Serial No. 386,531. 2 Claims. (Cl. 134—53.)

2. A moisture-proof paint composition, comprising a mixture of bees wax, turpentine, propolis, and a raw pigment.

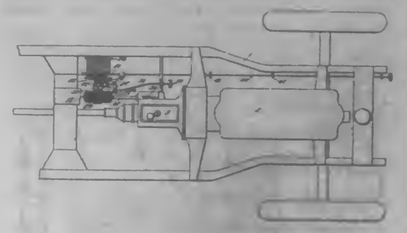
1,401,262. JIG FOR DRILLING VALVE-CAGES. MAX E. KRANZ, Bridgeport, Conn. Filed Jan. 14, 1920. Serial No. 351,507. 3 Claims. (Cl. 77—62.)

1. A jig for holding valve cages, comprising a top plate provided with a recess in its lower surface and an opening through its center concentrically arranged with respect to said recess, said recess being provided with means to adapt it to different sizes of valve cages and said opening being provided with a bushing, a yoke having a cut away

portions, and draw rods attached to said yoke and extending through said plate and provided with means for clamping a valve cage between the wall of said recess and the upper surface of said yoke.

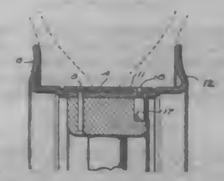


1,401,263. PULLING ATTACHMENT FOR MOTOR VEHICLES. EDWARD LUDESCHER, Cleveland, Ohio. Filed Mar. 1, 1920. Serial No. 362,289. 3 Claims. (Cl. 254—166.)



1. The combination with a motor vehicle transmission, of a winding drum and its shaft, a way shaft carried by the transmission case and have a gear meshing with one of the transmission gears, and another shaft geared to the drum shaft and provided with a shifting gear thereon engageable with the gear on the way shaft.

1,401,264. RIM. LAWRENCE LYNCH, Los Angeles, Calif. Filed Dec. 28, 1920. Serial No. 433,580. 1 Claim. (Cl. 152—21.)



A separable rim comprising a rim section secured to the felly of a wheel, said section being provided with bayonet slots on its inner edge, the portion of the rim between the slots and the inner edge being raised above the surface of the body portion, a removable section having a plurality of lugs arranged on its inner edge and adapted to enter said slots, said lugs being of greater thickness than the thickness of the rim and extending above the surface of the rim substantially flush with said raised portion, and means for locking said removable section to prevent relative movement with respect to the fixed section.

1,401,265. METHOD OR PROCESS FOR MAKING FERROZIRCONIUM. RALPH H. MCKEE, New York, N. Y. Filed Jan. 17, 1919. Serial No. 271,737. Renewed Mar. 28, 1921. Serial No. 456,691. 6 Claims. (Cl. 75—1.)

1. The novel process for producing ferro-zirconium, consisting in fusing a zirconium ore with iron and a flux without other reducing agent.

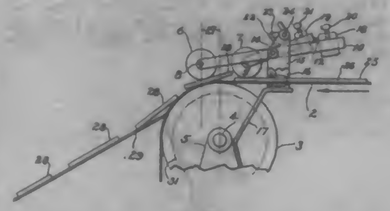
1,401,266. PROCESS FOR ALLOYING ZIRCONIUM AND IRON. RALPH H. MCKEE, New York, N. Y. Filed Feb. 28, 1919. Serial No. 279,051. Renewed Mar. 29, 1921. Serial No. 456,692. 4 Claims. (Cl. 75—1.)

The process of alloying zirconium with iron, which consists in mixing zirconium oxid, free from flux or other reagent, directly with the iron at a temperature above the melting point thereof and in the presence of a sufficient excess of iron to separate the oxygen from the zirconium oxid.

1,401,267. PROCESS OF ALLOYING ZIRCONIUM AND IRON. RALPH H. MCKEE, New York, N. Y. Filed Mar. 29, 1921. Serial No. 456,748. 1 Claim. (Cl. 75—1.)

The process of alloying zirconium with iron, which consists in mixing zirconium silicate, free from flux or other reagent, directly with the iron at a temperature above the melting point thereof and in the presence of a sufficient excess of iron to separate the silica and oxygen from the zirconium silicate.

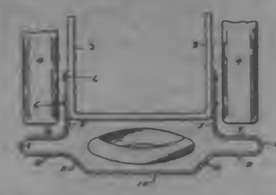
1,401,268. MATZO BREAKER. JACOB U. MANISCHEWITZ, Cincinnati, Ohio, assignor to The B. Manischewitz Company, a Corporation of Ohio. Filed Sept. 10, 1920. Serial No. 409,459. 6 Claims. (Cl. 146—12.)



6. A roller, a plurality of gravity operated breaker rollers over said roller and adjustable weights having connection with said breaker rollers, as and for the purpose set forth.

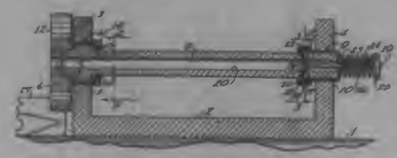
1,401,269. VEHICLE-BUFFER. WILLIAM H. MANNING, Sioux Valley township, Union county, Iowa. Filed Apr. 13, 1920. Serial No. 373,649. 1 Claim. (Cl. 293—55.)

A rear fender for a vehicle including its main frame and wheel-fenders at the sides thereof, consisting of a bar of spring material formed with its end portions extended forwardly and adapted to be secured to the sides of the frame, the portions of the bar adjacent the said end portions being formed with laterally-extending U-shaped loops having parallel arms, and extended in the rear of and to the line of the outer wheel fender edges, and the portions of the bar adjacent the said loops being bent rearwardly coincident with the plane of the forwardly-



extended end portions, to space the intermediate portion of the bar a distance in the rear of the plane of the rear arms of the loops.

1,401,270. SPINDLE-TIGHTENER. JULIUS MATTSON, Chicago, Ill. Filed Mar. 16, 1921. Serial No. 452,726. 3 Claims. (Cl. 64—55.)



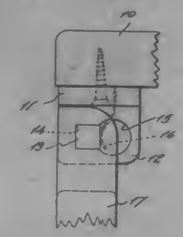
1. The combination with a hollow driven spindle supported for rotation in separated bearings of a collar rigidly mounted on the spindle adjacent to one of said bearings and having its peripheral wall threaded, a slidable collar disposed on the spindle adjacent to the other bearing of the spindle, diametrically opposed guide pins having their outer ends fast in the inner wall of the slidable collar and having their inner ends projecting through guide slots through the walls of the spindle adjacent to its second named bearing, a collar rigidly mounted on the spindle at a determined distance from the second named bearing to limit the movement of the slidable collar in the direction of the first named bearing, an adjusting collar screwing on the first named collar and operable to contact with the first named bearing to occasion a movement of the spindle in the direction of the second named bearing, whereby the slidable collar will be held against the second named bearing and said spindle will be held against longitudinal movement relative to its bearings, and means connecting with the guide pins and exerting a thrust against the end of the spindle adjacent to the second named bearing for preventing play between said adjusting collar and the first named bearing and between said slidable collar and the second named bearing on account of wear on the parts.

1,401,271. CABLEWAY. THOMAS SPENCER MILLER, South Orange, N. J. Filed Feb. 9, 1917. Serial No. 147,539. 38 Claims. (Cl. 37—19.)



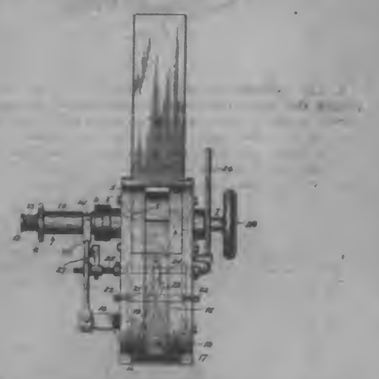
1. In a cable way, the combination of spaced elevated supports, a main trackway extending between and supported by said supports, a carriage on said trackway, a traversing line for the carriage, means for raising and lowering the trackway and carriage, and means between the supports and independent of the carriage and trackway for supporting the traversing line and permitting vertical movement of the carriage without varying the position of the larger portion of the traversing line.

1,401,272. COLLAPSIBLE CHAIR. ANDRZEJ MOCHA, East Douglas, Mass. Filed June 10, 1921. Serial No. 476,875. 1 Claim. (Cl. 155—148.)



Folding furniture comprising a body element, brackets secured to the lower surface of said body at the corners thereof, lugs depending from said brackets, said lugs having a square opening communicating with a circular opening, the center of the opening being arranged in a plane parallel to said body, legs forked at their upper ends to receive said lugs, square pins fixed to extend through the forks, said pins being normally received in the square openings of the lugs and suited to turn in the adjacent circular opening, and a bent flat spring fixed in said bracket adapted to urge said square pin into the mentioned square opening in said lug.

1,401,273. PACKAGING-MACHINE. WILLIAM A. MOONEY, Richmond, Va., assignor of one-third to William P. Mayo, Richmond, Va. Filed Oct. 20, 1920. Serial No. 418,262. 5 Claims. (Cl. 192—116.)

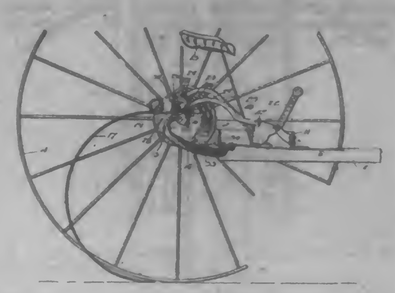


1. In a packaging machine, the combination with a feed belt and a chute, of a stop-device coöperable with the chute, clutch devices for the feed belt, and manually operable means coöperable with said stop device and said clutch devices for operating both simultaneously.

1,401,274. HAY-RAKE. WALTER F. MOTTIER, El Campo, Tex. Filed June 26, 1919. Serial No. 306,942. 28 Claims. (Cl. 56—392.)

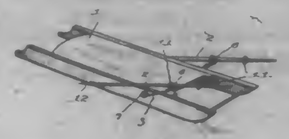
1. The combination with a self dump hay rake having a frame, ground wheels, a rake head, and a clutch between

the rake head and the wheels, of a clutch controlling means movably mounted upon the rake head, means for actuating the clutch controlling means to thereby clutch the rake head to the wheels, means carried by the frame acting positively upon the clutch controlling means to pre-



vent unclutching of the rake head from the wheels through a predetermined cycle of movement, and means for unclutching the rake head from the wheels at the completion of a predetermined cycle of movement, substantially as described.

1,401,275. SLED-PROPELLER. WILLIAM REDFORD MULOCK, Winnipeg, Manitoba, Canada. Filed Mar. 26, 1921. Serial No. 455,913. 5 Claims. (Cl. 208—157.)



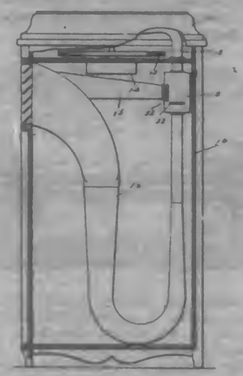
1. The combination with a vehicle, of poles for propelling the same, and linear connections of flexible non-elastic material, each secured at one end to the vehicle and at the other end to an intermediate point on one of the poles whereby said poles have free longitudinal and rotary movement with respect to the points of attachment of the linear connections to the vehicle.

1,401,276. FULL-SWITCH. ARVID H. NERO, New Britain, Conn., assignor to The Arrow Electric Company, Hartford, Conn., a Corporation of Connecticut. Filed Feb. 12, 1919. Serial No. 276,467. 8 Claims. (Cl. 173—354.)



1. An electric switch of the hill and valley type, comprising a rotary switch bar following the hill and valley course, a switch spindle on which said bar freely rotates, an actuating rotor on the spindle, said rotor having inclined arms spaced from the spindle and engaging said switch bar and up which the latter rides during the rise of said bar over the hills of its course, and spring means interposed between said rotor and switch bar to force the bar down said inclines with a positive forward throw in the direction of its rotation after passing the crest of a hill in its course.

1,401,277. TALKING-MACHINE. ROY T. NEWLAND and MELVEL MERRIAM, Butte, Mont., assignors of one-half to Adolph Pincus and William Meyer, Butte, Mont. Filed Aug. 3, 1920. Serial No. 401,072. 2 Claims. (Cl. 181—27.)

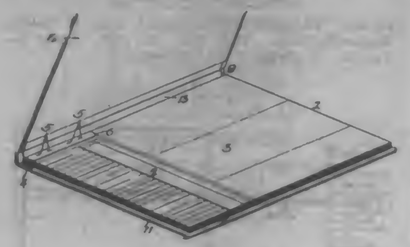


1. In a talking machine, the combination of a tone arm, a trap communicating with one end of the tone arm, a horn projecting from the front wall of said trap and communicating therewith, a second horn depending from the bottom of the trap and communicating therewith, said second horn being curved upwardly and connected with the first mentioned horn, whereby said horns have a single outlet, and means operating within the said trap for establishing communication between the latter, for either or both of said horns.

1,401,278. PROCESS FOR PRODUCING LACTIC FERMENT CULTURE FOR MILK. PETER PETERSEN, Indianapolis, Ind., assignor of one-half to Thomas J. Coster, Chicago, Ill. Filed Dec. 8, 1920. Serial No. 429,055. 1 Claim. (Cl. 99—11.)

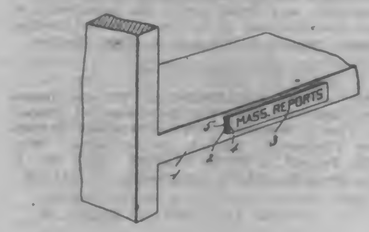
The method of producing milk ferment culture which consists in placing a suitable quantity of milk of selected quality in a closed container; submerging the container in a heated fluid to raise the temperature of the milk to 190 degrees Fahrenheit; maintaining this temperature for one hour to one hour and one-half; agitating the contents of the receptacles while being heated; quickly reducing the temperature to ordinary room temperature approximately 70 degrees Fahrenheit, agitating the contents of the receptacles while being cooled; maintaining said contents at the reduced temperature for ten to twelve hours, repeating the procedure as above outlined for three successive operations, then quickly reducing the temperature of the product to 68 to 70 degrees Fahrenheit, adding the ferment, maintaining this temperature for ten to twelve hours, and then preserving the product at a temperature of 40 to 50 degrees Fahrenheit as a culture for untreated milk.

1,401,279. CHECK-BOOK. HARRY A. PRIEBE, Philadelphia, Pa., assignor to William Mann Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 29, 1921. Serial No. 488,425. 5 Claims. (Cl. 281—31.)



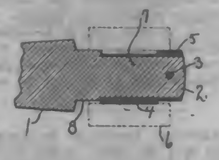
1. The combination of a pad of checks and stubs; a tongue secured at the back of the pad and to the stubs, said tongue having a supplemental tongue; and a binder having a pocket therein to receive the tongue, the supplemental tongue extending out of the pocket and forming a means for holding the pad firmly in the binder.

1,401,280. LABELING DEVICE. JAMES H. RAND, North Tonawanda, N. Y. Filed June 10, 1920. Serial No. 387,830. 4 Claims. (Cl. 40—10.)



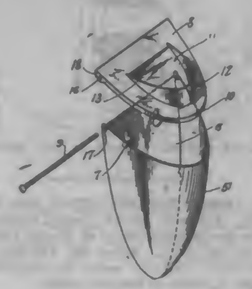
1. A labeling device comprising a cleat having a salient part in the region of the middle of its back and adapted to be secured to a base at said salient part with its opposite edges free and upstanding from the base, and a removable sheath having rearwardly and inwardly bent lips on its opposite edges engaging the free edges of the cleat.

1,401,281. ARBOR. EMIL L. ROHE, La Salle, Ill. Filed July 6, 1920. Serial No. 394,261. 4 Claims. (Cl. 82—44.)



1. In an automatic arbor, a holding part, a larger cylindrical part, integral with said holding part, a smaller auxiliary cylindrical part integral with and eccentric with said larger cylindrical part and an eccentric collar rotatably mounted on said smaller cylindrical part.

1,401,282. ASH-RECEIVER. EDMUND SCHROEDER, Brooklyn, N. Y., assignor to the O. Maurer Company, Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed June 29, 1920. Serial No. 392,628. 3 Claims. (Cl. 131—51.)



3. An ash receptacle having an ash passage and a downwardly inclined closure therefor pivotally supported at its upper end and lightly balanced to normally stand closed but sensitive to open upon contact of the ash end of a cigar or cigarette therewith.

1,401,283. OPHTHALMIC MOUNTING AND METHOD OF MAKING SAME. ELMER L. SCHUMACHER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Dec. 4, 1919. Serial No. 342,440. 8 Claims. (Cl. 18—59.)

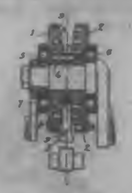


1. The process of making a composite rim for ophthalmic mountings comprising preparing a metal rim with cut prongs pressed up therefrom, preparing a composition non-metallic rim to fit around the metal one, heating the composition rim, pressing the heated composition rim on the metal rim around the prongs.

1,401,284. CONNECTING-ROD ARRANGEMENT FOR STAR-SHAPED MOTORS. LAURENT SEGUIN, Paris, France, assignor to Societe des Moteurs Gnome et Rhone, Paris, France. Filed Aug. 25, 1921. Serial No. 495,300. 5 Claims. (Cl. 74—17.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

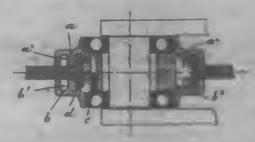
1. A connecting rod arrangement for star-shaped motor comprising in combination a main rod head, a crank pin, two separate flanges secured to said crank pin, a central bore provided in said main rod head for the passage of the crank pin, two cheeks surrounding the main rod head, means for securing said cheeks on the main rod

head, concentric grooves provided in the inner faces of said cheeks and secondary rods provided on their ends



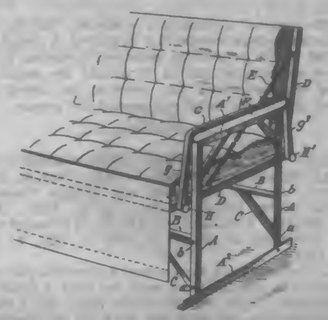
with arcuated portions slidable in two grooves facing each other.

1,401,285. CONNECTING-ROD HEAD FOR ROTATIVE MOTORS. LAURENT SEGUIN, Paris, France, assignor to Societe des Meteurs Gnome et Rhone, Paris, France. Filed Aug. 25, 1921. Serial No. 495,301. 1 Claim. (Cl. 74—17.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



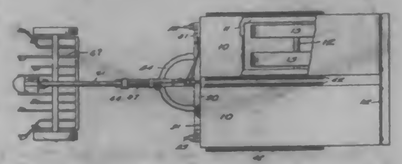
A connecting rod head for star shaped motor with rotary cylinders comprising in combination two half shells mounted loose on the crank pin, means for securing said shells to each other, grooves formed on the inner side of each shell, the grooves of one shell facing the grooves of the other shell, two groups of connecting rods, the inner end whereof is provided with arcuated portions sliding inside said grooves of the shells, the arcuated portions of one group sliding inside the inner grooves, and the arcuated portions of half the rods of the other group being provided with an enlarged portion sliding inside the outer grooves of one shell, the arcuated portions of the other half being provided with an enlarged portion sliding inside the outer grooves of the other shell.

1,401,286. COUCH-HAMMOCK. GEORGE F. SIBBOWER, Flushing, and LOUIS E. PITTONI, New York, N. Y., assignors to Manhattan-Rome Company, Branch of Rome Metallic Bedstead Co., Long Island City, N. Y., a Corporation of New York. Filed Mar. 11, 1921. Serial No. 451,511. 5 Claims. (Cl. 5—61.)



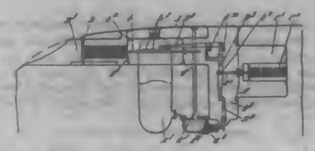
2. A couch-hammock comprising in combination a hammock-seat, an underlying support having a longitudinal member under the seat with uprights embracing the ends of the seat and links in the plane of said uprights depending from the front and back thereof to projections from the respective corners of the seat extending into said plane.

1,401,287. TRACTOR STRUCTURE. JOHN H. SIEBEL, Masonville, Iowa. Filed Nov. 26, 1920. Serial No. 426,530. 2 Claims. (Cl. 180—80.)



1. In a device of the class described a pair of tractors placed side by side, a steering attachment for steering said pair of tractors said steering attachment comprising a curved rack bar fixed to the rear end of the frames of the pair of tractors a gear in mesh with said rack bar, means for imparting rotation to said gear from the engine of one of said tractors, said means including a clutch device having a pair of co-acting clutch members, a lever for controlling said clutch device, the parts being so arranged that movement of the lever in either direction will impart rotation to said gear in either direction.

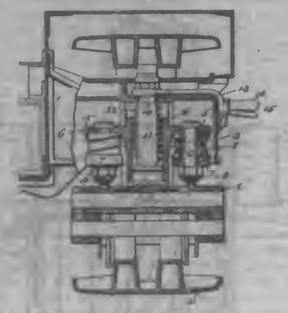
1,401,288. AUTOMOBILE TORPEDO. WILLIAM HORACE SODEAU and VICTORY PERDY FRANCOMBE, St. Tropez, Var, France, assignors to The Whitehead Torpedo Works (Weymouth) Limited, (In liquidation,) Weymouth, England, a British Company. Filed Oct. 5, 1921. Serial No. 505,671. 12 Claims. (Cl. 114—20.)



1. In an automobile torpedo, the combination with means for changing from normal negative buoyancy to positive buoyancy at the end of a practice run, of means whereby said change is permitted to occur only when two distinct conditions based upon the speed and depth of the torpedo exist at one and the same time.

1,401,289. TRACTOR. EDWARD K. STANDISH, Stoughton, Mass. Filed May 22, 1920. Serial No. 383,586. 3 Claims. (Cl. 280—80.) (Filed under the act of Mar. 3, 1883, 22 Stat L., 625.)

1. A land vehicle comprising a body, a truck, cushioning elements between said body and truck, and means for preventing relative movement of said body and truck on said cushioning elements, comprising telescoping members interposed between and carried, respectively, by said truck and body, one of said members being provided



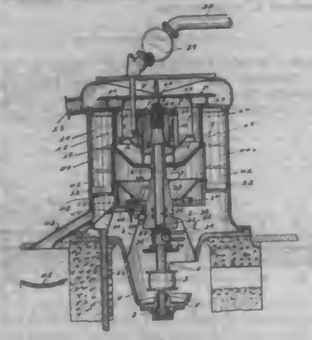
with grooves and the other with pins engageable with said grooves.

1,401,290. RUDDER-BRAKE. CHARLES WILLIAM ALEXANDER TAYLOR, Dunston-on-Tyne, England. Filed Feb. 18, 1920. Serial No. 359,632. 8 Claims. (Cl. 114—170.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



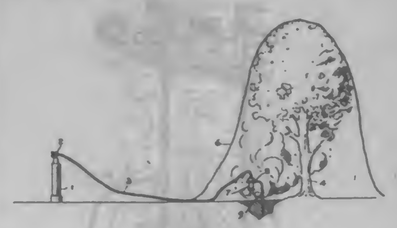
1. The combination with a rudder quadrant of a drum rotatably mounted thereon and bodily movable therewith, a thwartship rope-way wrapping, and adapted to be traversed by said drum, and braking means for resisting the rotary movements of said drum and thereby damping the movements of said rudder quadrant.

1,401,291. CENTRIFUGAL MACHINE. ENRIQUE A. TOUCEDA, Albany, N. Y. Filed Nov. 24, 1920. Serial No. 426,501. 7 Claims. (Cl. 233—27.)



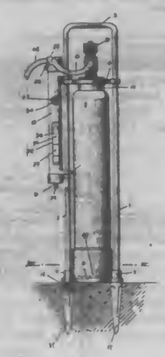
1. A centrifugal machine having a rotary container with two circumferential walls, one perforate and the other imperforate, and means for moving the imperforate wall out of the plane of rotation of the chamber of the container.

1,401,292. METHOD OF DIFFUSING AND DISSEMINATING POISONOUS GASES. JAMES W. VAN METER, San Francisco, Calif. Filed Apr. 11, 1921. Serial No. 460,521. 5 Claims. (Cl. 167—6.)



1. The method of disseminating poisonous gases which consists in generating said gases by the reaction of chlorin or metallic elements, in the presence of combustible material adapted to create an envelop of smoke.

1,401,293. PORTABLE CHLORIN-DISPENSER. JAMES VAN METER, San Francisco, Calif. Filed Apr. 11, 1921. Serial No. 460,523. 3 Claims. (Cl. 43—125.)

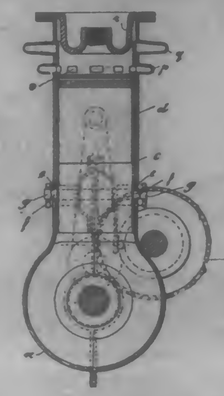


1. A portable chlorin dispensing apparatus comprising a U-shaped rod, yokes slidable on said rod and adapted to engage a chlorin cylinder at either end, ground engaging prongs secured to the ends of said rod, and a gage carried on said rod operatively connected with said cylinder whereby the discharge of chlorin from said cylinder is visible.

1,401,294. VALVE MECHANISM OF INTERNAL-COMBUSTION ENGINES. ARTHUR WILLIAM WALL, Sheldon, near Birmingham, England, assignor of three-fourths to John White, Jr., Boulton Road, Birmingham, England. Filed Aug. 8, 1919. Serial No. 316,195. 1 Claim. (Cl. 123—75.)

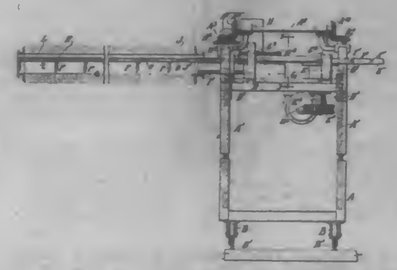
In an internal combustion engine, a casing comprising portions stamped from an integral piece for accurately locating the cylinder and the crank shaft at right angles to each other, a sleeve slidable in said cylinder-locating

portion and maintained in precise relation to the crank shaft, said sleeve being adapted to control ports appur-



taining to the explosion chamber, and means extraneous of said casing and actuated by the crank shaft for reciprocating said sleeve.

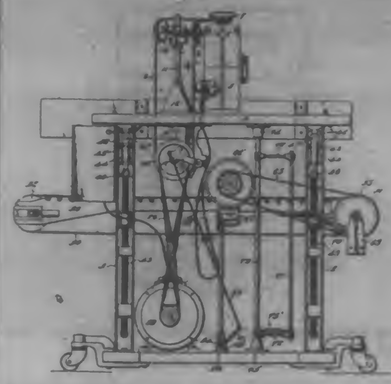
1,401,295. RETORT-STOKING APPARATUS. ARTHUR W. WARNER, Media, Pa., assignor to The American Gas Company of New Jersey, Camden, N. J., a Corporation of New Jersey. Filed Apr. 24, 1920. Serial No. 376,245. 6 Claims. (Cl. 214—34.)



1. In an apparatus of the class described a horizontal sprocket wheel in combination with a push bar made up of links connected by vertical pivots and adapted to wind on the sprocket wheel.

1,401,296. FILLED-SACK-SEWING MACHINE. IRVING F. WEAN, Elizabeth, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Jan. 24, 1918. Serial No. 213,509. 10 Claims. (Cl. 112—11.)

1. In a filled-sack sewing apparatus, the combination with a supporting frame-work, sewing mechanism supported by said frame-work, a motor carried by the latter and a treadle for controlling power transmission between said sewing mechanism and motor, of a sack conveyer frame, means permitting vertical adjustments of said sack conveying frame, sack-conveying



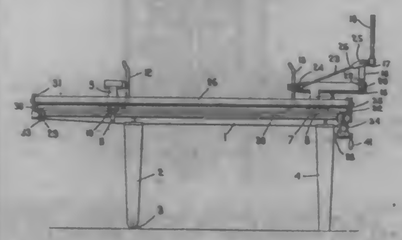
means supported by said frame, and means for actuating said sack-conveyer means including a motor and a power transmitting clutch carried by said frame.

1,401,297. CULTIVATOR. HENRY C. WILLIAMS, Ravine, Miss. Filed Feb. 26, 1918. Serial No. 219,240. 1 Claim. (Cl. 97—45.)



In a cultivator, a hoe having a rod, means to pivot the rod, means engageable with said rod to oscillate the hoe, a frame, a bearing in which said rod slides, means pivoting the bearing to the frame, and means operable to slide the frame to bring said means and the bearing into contact to raise the hoe.

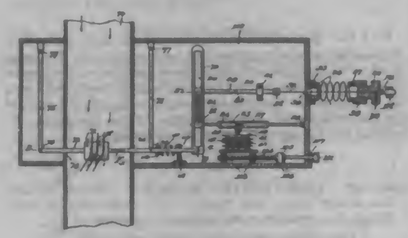
1,401,298. BUNDLING-MACHINE. BERT R. WILLIAMSON, Fairfield, Me., assignor to Keyes Fibre Company, Waterville, Me., a Corporation of Maine. Filed Oct. 9, 1919. Serial No. 329,572. 7 Claims. (Cl. 100—57.)



1. A bundling machine comprising a standard, a pair of oppositely disposed heads mounted thereon, means for supporting a stack of articles to be bundled between said heads, a head support on said standard, one of said heads mounted for longitudinal movement in the head support, a lever fulcrumed upon and transversely of the head support, a link pivoted to the longitudinally movable head and to the lever whereby the head will be projected longitudinally on the head support when the lever is swung about its fulcrum, and means for locking the head in its projected position.

2. A bundling machine comprising a standard, a pair of oppositely disposed heads mounted thereon, means for supporting a stack of articles to be bundled between said heads, a head support on said standard, one of said heads mounted for longitudinal movement in the head support, a lever fulcrumed upon and transversely of the head support, a link pivoted to the longitudinally movable head and to the lever whereby the head will be projected longitudinally on the head support when the lever is swung about its fulcrum, a portion of the lever and link engaging with a fixed portion of the machine when the lever is swung sufficiently to bring the pivot connecting the lever and link past the line running through the lever fulcrum and through the pivot connecting the link and head whereby the head is locked in projected position.

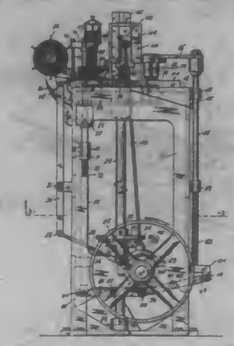
1,401,299. METER. WALTER JACOB WOHLENBERG, New Haven, Conn. Filed Nov. 10, 1917. Serial No. 201,412. Renewed Nov. 17, 1921. Serial No. 515,971. 15 Claims. (Cl. 73—167.)



1. In fluid flow meters, the combination, with an element responsive to the flow impulse of the fluid, of an element proportionally responsive to variations of the fluid's density and a lever composed of two members movable lengthwise relatively to each other, said lever being provided with a fulcrum, a resisting connection and a power connection, one of said members, called the link, being provided with the fulcrum and one of said connections, the other member, called the guide, being provided with the other of said connections, said link having its position relatively to said guide mechanically controlled by the element responsive to variations of the fluid's density, said lever having one end mechanically connected with the element responsive to the fluid flow impulse, as and for the purpose set forth.

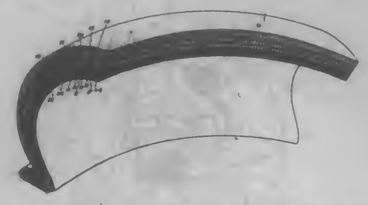
1,401,300. MACHINE FOR MANUFACTURING CLOSURES FOR BOTTLES AND OTHER RECEPTACLES. EMILIO ALBERTI and JOHN ALBERTI, New York, N. Y., assignors to International Cork Company, Brooklyn, N. Y., a Corporation of New York. Filed June 19, 1916. Serial No. 104,550. 14 Claims. (Cl. 113—80.)

1. In a machine for applying protecting disks to closures of the cap variety, the combination with means for applying a cementing material to the exposed face of the sealing disk of the complete closure, means for placing a protecting disk on top of and in contact with the cement-



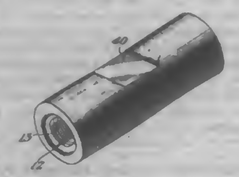
ing material, and means for applying pressure to the closure for maintaining sa... contact.

1,401,301. TIRE-ARMOR. W HERBERT ALDRIDGE, Portland, Oreg. Filed Oct. 25, 1920. Serial No. 419,212. 2 Claims. (Cl. 152—18.)



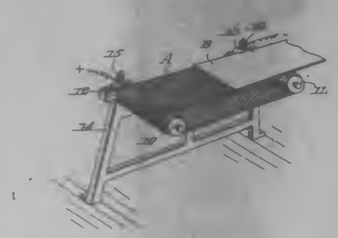
1. In a tire, superposed rubber layers having a canvas layer arranged therebetween, an armor embedded in one of the rubber layers, and staples engaged through the canvas layer from the inner side thereof and through the armor connecting the armor to the canvas layer, the free end portions of the staples being embedded in the first rubber layer and the backs of the staples being embedded in another rubber layer.

1,401,302. SUCKER-ROD COUPLING. JULE C. AXELSON, Alhambra, Calif., assignor to Axelson Machine Company, a Corporation of California. Filed Apr. 11, 1921. Serial No. 460,203. 5 Claims. (Cl. 287—117.)



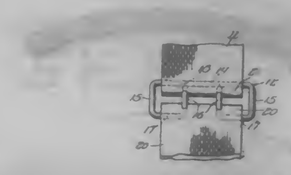
sucker rod coupling comprising: a hollow cylinder interiorly threaded at each end; and a flattened central portion, the central portion being substantially as thick as the ends.

1,401,303. ELECTRICAL DRIER FOR PAPER AND THE LIKE. WILLIAM CHARLES BALDWIN, Ottawa, Ontario, Canada. Filed Jan. 20, 1919. Serial No. 272,150. 1 Claim. (Cl. 34—12.)



In a drier, an endless belt formed of electric conductive material, means for passing an electric current through the belt to heat the same.

1,401,304. PACKAGING DEVICE. MATHIAS B. BECKER, Chicago, Ill. Filed Apr. 20, 1921. Serial No. 462,885. 1 Claim. (Cl. 24—186.)



A device of the class described comprising a belt, a single piece of wire pointed at both of its ends and bent to provide a cross bar (14), a pair of side bars (15—15) which are parallel to each other and disposed at right angles to the aforesaid cross bar (14), a pair of shorter cross bars (17—17) which are disposed in the same plane with said side bars (15—15) and said first mentioned cross bar (14) and in a straight line at right angles to said side bars (15—15), the extremities of said wire being turned away from said shorter cross bars (17—17) to provide straight pointed tangs (16—16) which are disposed in a plane oblique to the plane which includes the first mentioned cross bar (14), the side bars (15—15) and the shorter cross bar (17—17), the points of said tangs (16—16) lying to one side of, but closely adjacent to, said first mentioned cross bar (14), one end of said belt being impaled upon said tangs and lying against the aforesaid shorter cross bars (17—17), the other end of the belt extending under said first mentioned cross bar (14) from the side thereof opposite said tangs and being also impaled upon said tangs.

1,401,305. CRUTCH. EDGAR C. BRECROFT, Pelham Manor, N. Y. Filed Mar. 10, 1919. Serial No. 281,690. 4 Claims. (Cl. 135—52.)

4. The combination with a cushion having flaps adapted to engage opposite sides of the crutch, of means coacting with said flaps to fasten the cushion to the upper end of the crutch, said flaps carrying stiffening plates to prevent the cushion from longitudinal buckling and from being displaced on the crutch transversely to the length of the cushion.

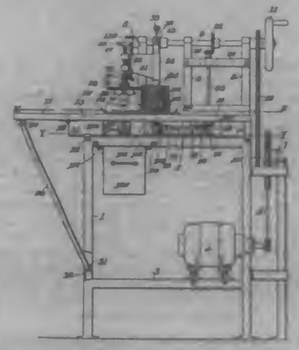


1,401,306. TIRE-FLAP. GEORGE R. BIRD, Rockford, Ill. Filed Mar. 14, 1921. Serial No. 452,193. 6 Claims. (Cl. 152—20.)



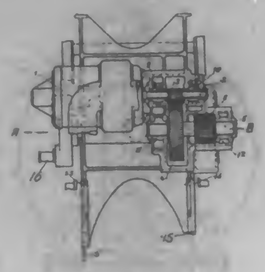
2. A tire flap comprising a rubber base strip and a fabric backing united and being of such width and thickness as to cover and conform to the inner wall of a tire casing at the rim opening, and a relatively narrow fabric rib along the center of the backing adapted to be positioned against the rim between the separated edges of the tire casing for holding the flap against lateral displacement.

1,401,307. DISK-CUTTING MACHINE. FRANK BLANDO and SANTE DUCA, New York, N. Y. Filed Aug. 6, 1921. Serial No. 490,288. 44 Claims. (Cl. 146—11.)



24. The combination with a cylindrical cutter, of means to reciprocate the same, means for rotating said cutter, a work-supporting table having an opening arranged below the cutter, a trap-door to fit said opening, means for supporting said trap-door in the opening during each cutting operation, and means for dropping the trap-door below the table after each cutting operation.

1,401,308. STEAM-TURBINE-DRIVEN LOCOMOTIVE. HEINRICH BOLTHAUSER, Zurich, Switzerland. Filed Nov. 6, 1920. Serial No. 422,247. 4 Claims. (Cl. 105—38.)



4. An exchangeable driving unit for turbine driven locomotives, comprising a frame, arranged to be secured in the locomotive frame, a turbine, reduction gearing and lay shaft and cranks pertaining thereto mounted in said frame and removable therewith.

1,401,309. [WITHDRAWN.]

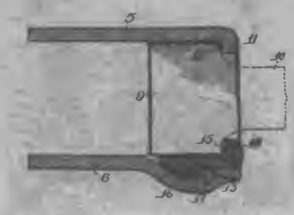
1,401,310. APPARATUS FOR REMOVING COKE FROM STILLS. CHARLES B. BURNETT, Philadelphia, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a Corporation of Pennsylvania. Original application filed Feb. 7, 1918, Serial No. 215,764. Divided and this application filed Mar. 11, 1919. Serial No. 281,914. 20 Claims. (Cl. 196—4.)

1. The combination with a horizontal cylindrical oil still having an opening in one end thereof, the lower boundary of said opening being arcuate and coinciding with the arcuate bottom of said still, of manhole structure having an arcuate portion surrounding the lower boundary of said opening, the inner arcuate wall of said manhole structure lying below the inner surface of the arcuate bottom of said still.

6. Apparatus for removing deposit from an oil still comprising a plurality of rectangular rigid frames, and flexible connections at corners of said frames connecting them in chain.

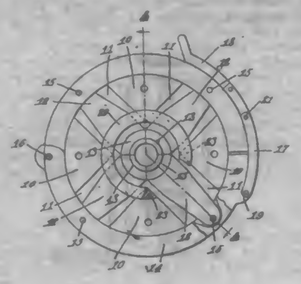
1,401,311. YOKE FOR DRAFT-GEARS. CHARLES A. CARSCADEN, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Sept. 13, 1917. Serial No. 191,271. 3 Claims. (Cl. 213—42.)

1. A yoke for draft gears having an integral hooded forward end, an integral lug on the upper member and an integral shoulder on the bottom member of the hood, and a one-piece locking member insertible bodily through the front of the yoke and having a lug on its under side



to engage the shoulder on the bottom member and a lug on its upper side to coöperate with the lug on the upper member, to retain a coupler butt in the yoke.

1,401,312. CHUCK. WILLIAM CASTANIE, Port Arthur, Tex. Filed Dec. 27, 1920. Serial No. 433,866. 3 Claims. (Cl. 279—33.)

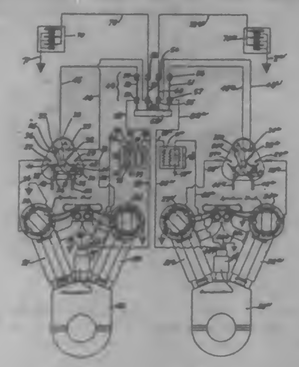


1. In a pipe clamping device, a head, said head being cut away to provide clearances, a clamp arm supporting ring secured to the head, clamp arms carried by the ring and having jaws formed at the free ends thereof, said ring being formed of opposed sections, means for connecting the sections to permit the sections to be moved with respect to each other, and said sections adapted to move the clamp arms and jaws toward and away from each other.

1,401,313. IGNITION SYSTEM. WILLIAM A. CHRYST, Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company, a Corporation of Ohio. Filed Oct. 23, 1918. Serial No. 259,379. 5 Claims. (Cl. 290—4.)

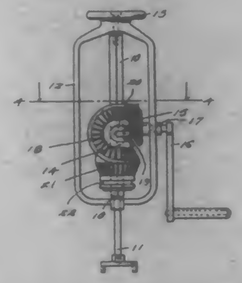
1. In an ignition system for self-propelled vehicles, the combination with a plurality of propulsion units, each of which includes an internal combustion engine; of a plurality of ignition units operably associated with each engine; sources of current for the ignition units of each engine including a storage battery and a generator either of which supply ignition, and said generator adapted to charge said battery; manual means for controlling the current supply to certain ignition units from the

battery or generator; and an emergency switch adapted to cut off the battery or generator sources of current



from the ignition units of all the engines and at the same time to cut off the batteries from the generators.

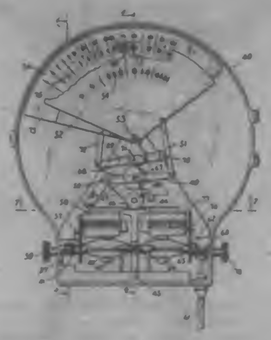
1,401,314. OPERATING DEVICE FOR VALVE-GRINDERS. ROY E. CLARK, Earlham, Iowa. Filed Nov. 26, 1920. Serial No. 426,442. 4 Claims. (Cl. 74—60.)



1 A valve grinding tool having a frame, a chuck spindle revolubly mounted in the frame, a head keyed to the spindle and provided with a plurality of gear members, a driving pinion mounted upon the frame for selective engagement with said gear members, and complemental interlocking guiding means carried by the drive pinion and the head respectively adjacent to the gear members of the latter.

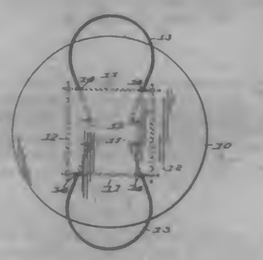
1,401,315. METER. WILLIAM T. CLARK, Philadelphia, Pa., assignor of one-half to E. W. Marshall, Yonkers, N. Y. Filed June 11, 1913. Serial No. 772,949. 25 Claims. (Cl. 235—1.)

19. A combustion engine fuel meter, an actuating mechanism therefor comprising an engine driven member, a meter driven member and a friction clutch forming a slip connection between said members; said clutch having a spring and an adjusting device therefor by which the amount of slip of said connection may be changed, a fuel pump connected with the meter driving member, and a valve in the fuel pipe arranged to automatically limit the rate of movement of the pump and the meter driving member, a centrifugal governor connected with the meter driving member, an indicating dial connected with said governor and a register connected with the meter driving member; combined with engine driven mechanism, a speed indicator for indicating the speed of said mech-



anism having a dial arranged with said indicating dial to jointly give an indication, and a register connected with the speed indicator adapted to register the indications of said dials.

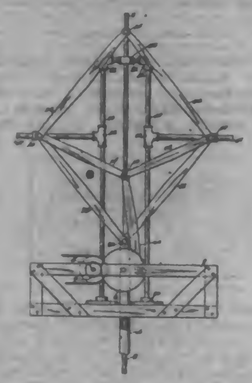
1,401,316. FLUE-STOP. JAMES E. CLOUD and HIRAM F. STALTER, Harpster, Ohio. Filed May 21, 1919. Serial No. 298,672. 3 Claims. (Cl. 126—319.)



2. A flue stop having a molded plastic body portion and an embedded reinforcement consisting of intersecting anchoring and connecting elements of which the former are provided with eyes extending substantially to the inner surface of the body portion, and looped clamping members having their side arms engaged respectively with said eyes and having their extremities embedded in the body portion and provided with terminal lateral studs.

1,401,317. PUMP-JACK. HARRY COMSTOCK, Sunland, Calif. Filed July 22, 1920. Serial No. 398,239. 2 Claims. (Cl. 103—82.)

1. A pump jack comprising a pair of telescopic suction rods, a guide frame extending laterally in opposite directions with relation to said rods, runners on said lateral extensions, toggle links connecting said runners, a crank arm for actuating said toggle links in opposite directions, and toggle links connecting the respective runners to the



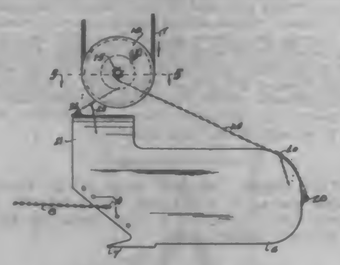
respective suction rods and extending laterally in opposite directions from said runners.

1,401,318. FILM-CEMENT HOLDER AND SPREADER. HENRI COUILLARD, Los Angeles, Calif. Filed Oct. 28, 1920. Serial No. 420,315. 7 Claims. (Cl. 91—67.4.)



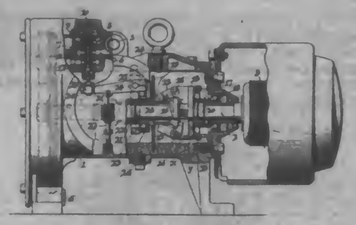
1. A dispensing can having a nozzle, a rod projecting beyond the same to form a spreader, and the inner end of said rod being reversely bent to form a counterbalancing weight and a stop to limit the lengthwise movement of the rod outwardly through the nozzle of the can.

1,401,319. BOOM-DRAG-LINE EXCAVATOR. WILLIAM H. CRAWFORD, Los Angeles, Calif., assignor to Charlotte E. Crawford, Los Angeles, Calif. Filed Mar. 22, 1920. Serial No. 367,818. 9 Claims. (Cl. 37—54.)



1. In a drag line excavator, an excavating bucket, and a supporting pulley for said bucket having a hoisting cable connected thereto, and arranged so that throughout the rotation of said pulley, as the bucket is raised, said pulley will continually shift relative to said bucket to one side of the center of gravity thereof to cause the bucket to tilt and dump when hoisted.

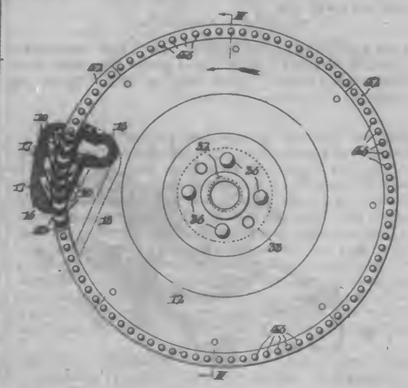
1,401,320. SPEED-GOVERNOR FOR ENGINES OR MOTOR DEVICES. LEWIS A. DARLING, Philadelphia, Pa., assignor to Electric Service Supplies Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 27, 1918. Serial No. 225,016. 13 Claims. (Cl. 264—3.)



1. A governor mechanism comprising, in combination, an automatic rotary speed-responsive device driven by the motor to be governed; means including a member actuated directly by said rotary speed-responsive device for normally controlling the supply of motive medium to said motor; and means actuated by said rotary speed-responsive device independently of the means afore-mentioned to apply a friction brake load to said motor under predetermined conditions.

13. A turbine governor mechanism comprising, in combination, a shaft; a governor device on said shaft including governor weights, a yoke pivotally connected to and supporting said weights and movable along said shaft by them, and a sleeve also movable along said shaft by said weights; a spring normally opposing movement of said sleeve as aforesaid by said weights; a valve-controlling arm operatively connected with said sleeve; a speed-regulating spring acting upon said arm and sleeve in opposition to the influence of said weights as aforesaid; means for adjusting the tension of said regulating spring; and a friction member in the path of movement of said yoke coöperating therewith to apply a friction brake load to the turbine in the absence of effective control by said valve.

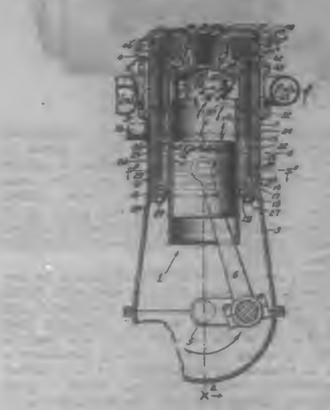
1,401,321. TURBINE AND TURBINE-WHEEL. LEWIS A. DARLING, Philadelphia, Pa., assignor to Electric Service Supplies Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 4, 1919. Serial No. 280,562. 10 Claims. (Cl. 253—93.)



1. In a turbine, the combination of a wheel with a plurality of peripheral rows of radial-flow buckets, means

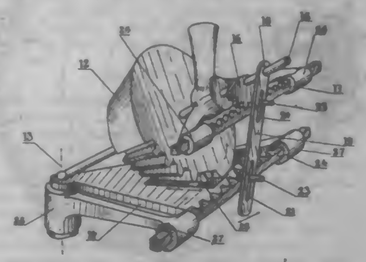
for directing motive fluid against the buckets of one of said rows from one side thereof, means for redirecting the fluid leaving from said buckets to strike the buckets of the other row, and means for again redirecting the fluid back through the buckets of the second row.

1,401,322. COMPOSITE-CYLINDER AND ROTARY-SLEEVE-VALVE MOTOR. IRA M. DAVIDSON, Santa Paula, Calif., assignor of one-third to Raymond I. Moses, Los Angeles, Calif. Filed Oct. 11, 1915, Serial No. 55,344. Renewed Apr. 8, 1919. Serial No. 288,599. 5 Claims. (Cl. 123—59.)



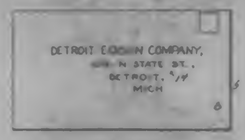
1. The combination with a motor crank-case of a plurality of individual cylinders each having an intake and an exhaust port, rotary valve sleeves surrounding the respective cylinders and adapted to appropriately open and close the respective intake and exhaust ports, said cylinders being provided with base flanges adapted to seat upon the crank case, an outer casing inclosing the cylinders and their sleeves and seating upon said flanges, studs depending from said outer casing and extending down through the flanges, said studs being secured to the crank-case to thereby mount the casing in place over the cylinders and maintain the same in true alinement over the crank case.

1,401,323. APPARATUS FOR CUTTING TOOTHED GEAR-WHEELS. RENÉ LOUIS JULES DELAMARE, Bois-Colombes, France. Filed July 8, 1920. Serial No. 394,811. 1 Claim. (Cl. 90—9.)



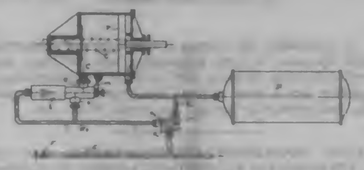
In a gear cutting machine in which the gear to be cut is attacked by a tool having a rolling movement with respect thereto, a control device for this rolling movement comprising a gear guide fixed to the wheel to be cut, a guide rack meshing with said gear guide, and a mechanical connection between said guide rack and the tool support.

1,401,324. COMBINED STATEMENT AND RETURN ENVELOP. RALPH DORITY, Washington, D. C., and HAROLD W. BERNSTEIN, Brooklyn, N. Y., assignors of one-third to George Edwin Ijams. Filed Mar. 1, 1921. Serial No. 448,025. 8 Claims. (Cl. 282—25.)



1. A mailable statement and return envelop comprising a body portion and a sealing flap and bearing duplicate statement forms, one of which is detachable and the other of which is upon an integral part of the envelop, the detachable statement form being so related to the body of the envelop as to leave the latter unimpaired for mailing after the detachable form has been detached.

1,401,325. ADJUSTABLE BRAKE ARRANGEMENT OPERATED BY COMPRESSED FLUID, ADAPTED TO BE USED IN RAILWAY-TRAINS OR THE LIKE. GUSTAV DROLSHAMMER, Hamar, Norway, assignor of one-half to Ivar Drolshammer, Drammen, Norway. Filed July 23, 1920. Serial No. 398,566. 10 Claims. (Cl. 303—32.)



1. In an air brake, the combination comprising a brake cylinder, a main air line, a pressure regulator casing having connections with said cylinder and air line, a piston valve slidable within said casing to control communication between the cylinder and air line acted upon by the pressure within the brake cylinder, a regulator piston in said casing acted upon by line pressure on one side, a spring arranged to act upon said piston in opposition to air line pressure, and a spring disposed between said valve and piston and adapted to close said valve after reduction of pressure in the brake cylinder.

1,401,326. SEAL. WILLIAM KERR EDGAR, Lawrence, Kans., assignor to Edgar Steel Seal & Mfg. Co., Lawrence, Kans. Filed Nov. 2, 1920. Serial No. 421,298. 4 Claims. (Cl. 292—307.)



1. A seal including a strip having a longitudinally slotted removable end portion, said slot being of a length greater than the width of the seal and of a width greater

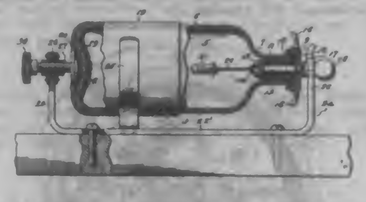
than twice the thickness of the seal, said seal, when separated from the end portion, being insertible at its ends through the slot, there being weakened portions in the seal, the end portions of the seal being bendable backwardly at the weakened portions to prevent displacement of the slotted portion from the seal.

1,401,327. EYEGLASSES OR SPECTACLES. ROBERT P. EARHART, Juniata, Pa. Filed Oct. 5, 1920. Serial No. 414,724. 2 Claims. (Cl. 88—41.)



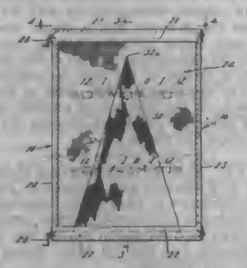
1. A pair of glasses, comprising a frame, and a multifocal lens mounted for rotation in said frame, a portion of the frame being set inwardly to define a pair of shoulders and to expose a portion of the periphery of the lens thereby to facilitate the rotation of the lens, said lens carrying a projection adapted to limit the rotation of the lens and cooperating with said shoulders to dispose certain parts of the lens to the field of vision.

1,401,328. FIRE-EXTINGUISHING DEVICE. ORLANDO B. EDWIN, New York, N. Y., and HAROLD V. GILOS, Chicago, Ill., assignors to Foamite Firefoam Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 10, 1920. Serial No. 429,639. 5 Claims. (Cl. 169—36.)



1. In a fire extinguishing device, a container having an opening at one end, said container holding a fire extinguishing charge, a closure for said opening, illuminating means mounted in said container and connected to said closure and a dispensing cup mounted on the other end of the container.

1,401,329. LIGHT-DISSOLVER. HOWARD M. EWING, Los Angeles, Calif., assignor to Famous Players-Lasky Corporation, a Corporation of New York. Filed June 17, 1918. Serial No. 240,386. 9 Claims. (Cl. 240—45.4.)



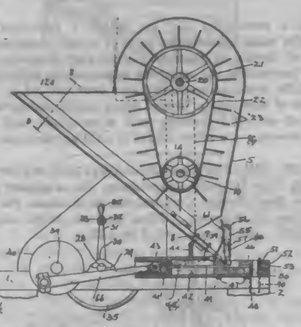
1. A light dissolve screen comprising a continuous curtain embodying a fabric one end part of which is transluscent and light dispersive and the other end part of which is relatively opaque, the two parts joining each other on a V-shaped line.

1,401,330. INTERLOCKING CHAIR-BASE. THOMAS WITHERBEE FOOTE, Cleveland, Ohio, assignor to The Marble & Shattuck Chair Company, Bratenahl, Ohio, a Corporation of Ohio. Filed June 20, 1918. Serial No. 240,918. 2 Claims. (Cl. 155—138.)



1. In a chair base the combination of legs having their inner ends abutting to form a central portion, having an aperture therethrough, said legs having grooves in their sides adjacent such central portion, locking blocks having complementary formed tongues adapted to fit in such grooves in said legs, a sleeve mounted in such aperture, a top plate fastened to such central portion and adapted to cover said blocks and being apertured to receive said sleeve, and being provided with an annular recess about such aperture, a bottom plate fastened to such central portion to cover said blocks and being apertured to receive said sleeve, said sleeve being peened over within such recess to present a flush upper surface with said top plate and over such lower plate to lock said legs and blocks in position.

1,401,331. MACHINE FOR SIZING DOWEL-PINS AND THE LIKE. THOMAS W. FOOTE, East Cleveland, Ohio. Filed May 2, 1919. Serial No. 294,219. 2 Claims. (Cl. 144—197.)

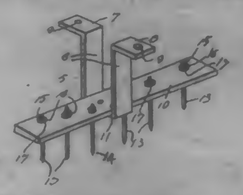


1. In mechanism of the character described, the combination of a base provided with alined slots and apertures, a plunger and push rod mounted in one of such slots, a die mounted in another of such slots, a recessed receiving block mounted between said plunger and die and adapted to receive single dowel pins in alinement with said plunger and die, means for feeding single dowel pins into such recess, said means comprising a hopper for the pins having a delivery spout adjacent such recess, a swinging arm mounted on said base over such recess and extending into the same and means for reciprocating said plunger to force a pin through said die and for swinging said arm to allow single pins to drop into such recess ahead of said push rod.

1,401,332. HARROW. PLEAS W. GREEN, Egypt, Miss. Filed Jan. 14, 1920. Serial No. 351,418. 2 Claims. (Cl. 55—19.)

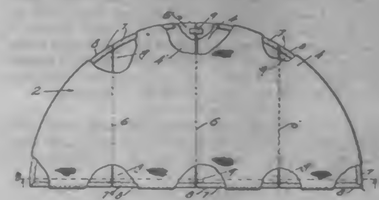
1. In a harrow structure, a substantially U-shaped attaching bar member having horizontal attaching flanges formed upon the upper ends of its legs, a horizontal bar at-

tached to the bight portion of said U-shaped attaching member, said bar provided with a plurality of openings, harrowing teeth extending through said openings, and



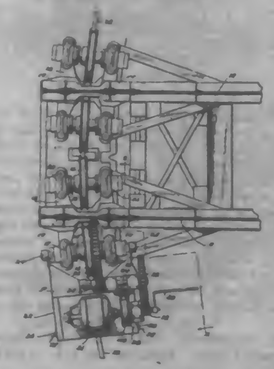
means for adjustably connecting said harrowing teeth to said bar to regulate the length of projection of the teeth beneath the bar.

1,401,333. ASBESTOS TABLE-MAT. GEORGE R. HEALEY, Los Angeles, Calif. Filed Feb. 25, 1920. Serial No. 361,345. 2 Claims. (Cl. 65—45.)



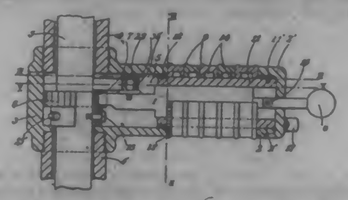
1. In a protecting mat for tables, a unit having substantially rigid subsections, each of which comprises a plurality of layers of relatively thin stiff material, elastic hinges connecting the adjacent edges of the subsections to permit the same to be folded, one over the other, the end portions of said elastic hinges being positioned between the sheets of material forming said subsections, and binding strips covering the outer edges of said subsections.

1,401,334. TRANSFER-TABLE-DRIVING MECHANISM. MEINE GEO. HILPERT, Harrisburg, Pa., assignor to Bethlehem Steel Bridge Corporation, Bethlehem, Pa., a Corporation of Delaware. Filed May 21, 1920. Serial No. 383,056. 18 Claims. (Cl. 104—43.)



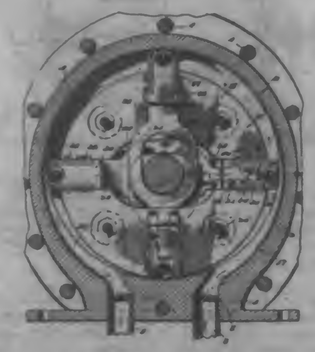
1. In a transfer table having girders and trucks supporting the same adapted for pivotal movement relative to the girders due to unevenness in the track, a frame, means supporting said frame on the table including a pivotal connection to an axle of one of said trucks, and a motor on the frame connected to drive said axle and thereby the table.

1,401,335. ANTITHEFT-LOCK FOR AUTOMOBILES. THOMAS WILLIAM IRVINE, Aspatria, England. Filed Mar. 30, 1920. Serial No. 369,935. 5 Claims. (Cl. 70—126.)



1. A locking device of the class described including in combination with the steering column casing having the steering rod and spark and gas rods therein, of means carried by the casing and including a main locking bolt shiftable radially with reference to the steering rod for engaging and disengaging the same to prevent relative rotation thereof, and separate locking elements carried by the locking bolt for engaging with the said spark and gas rods.

1,401,336. ROTARY ENGINE. LOUIS V. JOHNSON, Fort Worth, Tex. Filed July 6, 1920. Serial No. 394,216. 3 Claims. (Cl. 121—84.)

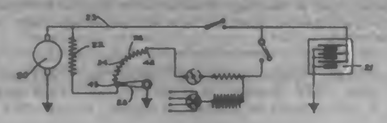


1. In a rotary, fluid pressure engine, a casing having an inlet and an exhaust communicating with its chamber, a rotor within the chamber, and a piston carried by the rotor, the said piston including a head having an end presented to the circumferential wall of the chamber, antifriction means carried by the head for coaction with the said wall, and means at opposite sides of the said antifriction means, in the direction of rotation of the rotor, establishing fluid-tight connection between the piston head and the walls of the casing.

1,401,337. ELECTRICAL SYSTEM FOR ENGINES. CHARLES F. KETTERING and WILLIAM A. CHRYST, Dayton, Ohio, assignors to The Dayton Engineering Laboratories Company, a Corporation of Ohio. Original application filed July 16, 1914. Serial No. 851,535. Divided and this application filed Feb. 17, 1916. Serial No. 78,894. 6 Claims. (Cl. 219—55.)

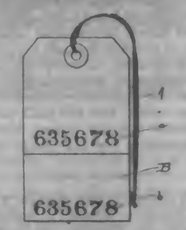
1. In a rheostat, the combination with a movable support carrying resistance material; of a movable contact

member; and means actuated by the movement of the contact member for moving the support whereby to present



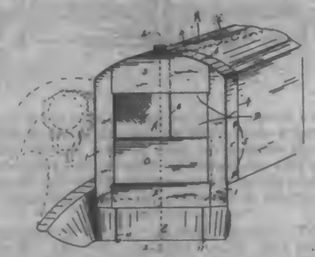
different portions of the resistance material to the action of the contact member.

1,401,338. BAGGAGE-CHECK. JOHN R. LARACY, Dorchester, Mass. Filed Dec. 16, 1918. Serial No. 267,083. 5 Claims. (Cl. 283—20.)



1. An identification check having two separable parts marked with identical check numbers; one of said parts being marked also with a test number; said test number being such that when added to the check number it makes a predetermined test total.

1,401,339. RADIATOR-COVER. OLE ALONZO LARSON and CHARLES J. LALLISS, Salt Lake City, Utah. Filed Dec. 15, 1920. Serial No. 430,954. 2 Claims. (Cl. 257—132.)



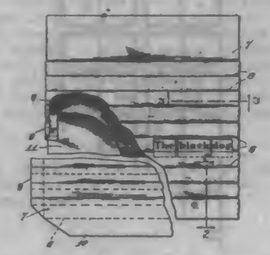
1. In an automobile radiator cover the combination of strips of flexible waterproof fabric sewed together to form a frame-like shield having a rectangular sight opening; a lining therefor having similar form; a base block fastened between the lower end portions of said shield fabric and lining fabric and having a recess cut out of its front edge; a spring roller mounted on said base block; a flexible shutter adapted to be wound on said roller and to be unwound from said roller and cover more or less of the sight opening in said fabrics; a tube of easily bent material fastened between said fabrics and adjacent the filler pipe of the radiator; a cord having one end fastened to said shutter and passed through said tube toward the rear and under the hood of the automobile; and means to fasten the fabric shield to the radiator and mud guard of the automobile.

1,401,340. BEDCLOTHES-HOLDER. ROBERT J. LINDSAY, Philadelphia, Pa. Filed Jan. 19, 1921. Serial No. 438,321. Renewed Oct. 18, 1921. Serial No. 508,610. 3 Claims. (Cl. 24—245.)



1. A bed clothes holder comprising a pinch clip, an attachment cord doubled to form a loop whereby it may be secured to the pinch clip at its looped portion with its free ends forming tie strings, another cord having one end secured in relation to the pinch clip and with a ball appended to its other end, which ball is capable of passing only through the larger part of the pinch clip.

1,401,341. CHART. JAMES E. MCDADE, Chicago, Ill. Filed Nov. 15, 1920. Serial No. 424,201. 4 Claims. (Cl. 35—9.)



2. A chart of the class described, for holding a plurality of display cards, comprising a foundation member, a sheet of material folded so as to provide a plurality of plaits extending across the same, said sheet being greater in length in the direction of the plaits than said member and placed on said member so that a portion at both ends thereof, with respect to that direction, projects beyond said member, the projecting portions of said sheet being folded around the corresponding edges of said member against the back thereof, and means to secure the main portion and the projecting folded portions of said sheet, respectively, to the front and back of said member, whereby the display cards when placed singly back of said respective plaits are firmly held upright against the chart and in alinement with each other.

1,401,342. BROOM-BRIDLE. GEORGE A. MCGARR, Philadelphia, Pa. Filed June 6, 1919. Serial No. 302,174. 1 Claim. (Cl. 15—23.)

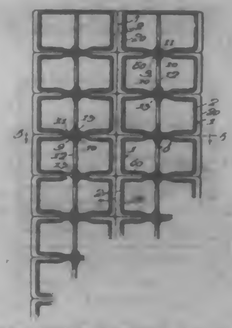
In a device of the character described, two attaching members each having a slot therein and carrying means for securement to a broom body, one of said members being located on each side of the broom body, two bridle sections spaced apart each consisting of a loop adapted to surround a portion of the broom body, and to straddle one edge thereof, two arms projecting from said loop and provided with offsets adjacent said loop, hooks formed from the ends of said arms for engagement with the slots in the attaching members whereby the bridle sections are pivoted to said attaching members, and springs attached

to the offset portion of the bridle sections and lying within the spaces between said bridle sections, one on each



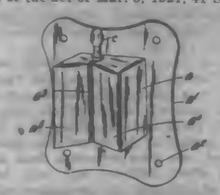
side of the broom body, for drawing the looped portions of said bridle sections toward each other.

1,401,343. RADIATOR. UMBERTO MAGNI, Los Angeles, Calif. Filed Nov. 2, 1920. Serial No. 421,302. 1 Claim. (Cl. 257—130.)



In a radiator having water-tube units provided with lateral projecting portions; a partition plate having transverse grooves to receive alternate ones of said projections of a unit on one side of the plate and having transverse grooves to receive other alternate ones of said projections of a unit on the other side of the plate, and means securing the plate to the respective units, said last named means comprising soldering grooves in the partition plate at and on the opposite side of the plate to the grooves which receive the lateral projections of the water-tube units, and solder in said soldering grooves.

1,401,344. PETROL OR SPIRIT LIGHTER FOR CIGARS AND OTHER OBJECTS. JAKOB MANZ, London, England, assignor of one-half to William Ernest Deveson, London, England. Filed Aug. 20, 1919. Serial No. 318,703. 1 Claim. (Cl. 67—4.1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



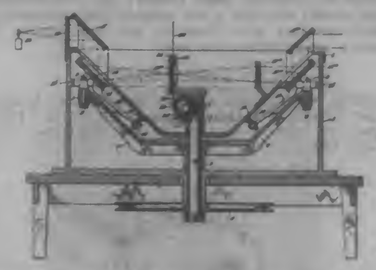
In an igniting instrument of the kind described, a fuel reservoir adapted to be mounted on a stationary base and having a face composed of a right and a left half converging symmetrically toward the center line and having in the apex of the angle thus formed a strip of frictional igniting material fixed in the said face, substantially as described.

1,401,345. MOTION-PICTURE-PROJECTION APPARATUS. EMIL MECHAU, Wetzlar, Germany. Filed Sept. 2, 1921. Serial No. 498,008. 3 Claims. (Cl. 88—16.8.)



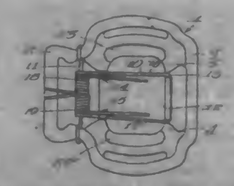
1. In a motion picture projection apparatus of the class wherein the picture film is continuously moved and a compensating optical device is employed whereby a picture is maintained on the screen, a single fixed condensing lens system which is adapted to produce a stationary real image of the picture to be projected upon the screen and is located both in the light path between the picture and the compensating device, and the light path between the compensating device and the screen means coöperating therewith for projecting the real image so formed upon the screen.

1,401,346. MOTION-PICTURE-PROJECTION APPARATUS. EMIL MECHAU, Wetzlar, Germany. Filed Sept. 2, 1921. Serial No. 498,009. 10 Claims. (Cl. 88—16.8.)



2. In a motion picture projection apparatus of the class employing a continuously moving film, catoptric elements, means for rotating the same to cause them to intersect the ray path alternately in front of and behind the film and means for simultaneously oscillating each element in two directions in addition to its rotary movement.

1,401,347. TRACE-CARRIER. ALBERT E. MENDENHALL, Garden City, Kans. Filed Feb. 26, 1921. Serial No. 448,220. 1 Claim. (Cl. 54—56.)

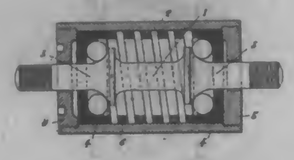


A trace carrier comprising a base, a bridge in said base having depending lugs, a bar on said base, a loop pivoted on said bar, a plate carried by said loop and resilient means for holding said plate in engagement with said depending lugs.

1,401,348. METHOD OF MODIFYING RESIN AND THE PRODUCT THEREOF. GEORGE W. MILNE, Sandwich, Mass. Original application filed Jan. 10, 1919, Serial No. 270,005. Divided and this application filed Jan. 7, 1920. Serial No. 349,997. 4 Claims. (Cl. 134—26.)

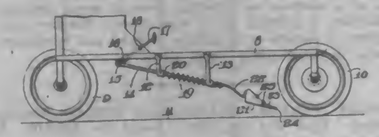
1. The method of modifying resin, which consists in distributing through it a substance provocative of oxidation, thereafter oxidizing the resin until capable of forming an ammoniate indefinitely extensible in water.

1,401,349. ADJUSTABLE BALL-BEARING. LOUIS MIQUET, Neuilly-sur-Seine, France. Filed Nov. 13, 1919. Serial No. 337,698. 3 Claims. (Cl. 64—36.)



1. In a ball bearing, the combination of a cone member and a cup member associated therewith to form an annular ball race, bearing balls between said member, a cylindrical bearing for one of said members allowing axial sliding movement of said member, an elastic member engaging said sliding member on one side to thrust it away from its associated member, and an adjustable abutment engaging the other side of said sliding member.

1,401,350. WHEEL-CHOCK DEVICE. JOHN C. MONAHAN, Philadelphia, Pa. Filed Oct. 18, 1919. Serial No. 331,536. 2 Claims. (Cl. 188—4.)

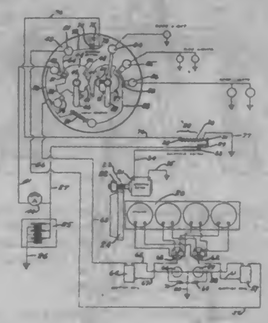


1. The combination with a vehicle of a rod slidably mounted thereon; a chock shoe; and a resilient flexible connection between said chock shoe and the slidable rod, said flexible connection being of sufficient rigidity to hold the chock shoe in a position so that when the rod is slid the chock shoe will initially engage between a wheel of the vehicle and the roadway after which said flexible connection will permit the shoe to be forced downwardly in engagement with the roadway and the wheel to ride upon, it; substantially as described.

1,401,351. PROCESS FOR THE MANUFACTURE OF GRAPE EXTRACT. EUDO MONTI, Turin, Italy. Filed Nov. 19, 1919. Serial No. 339,206. 5 Claims. (Cl. 99—5.)

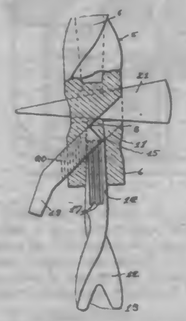
4. The process of preparing a beverage from grape pomace which consists in systematically exhausting the pomace with lake warm water at a temperature from 35 to 50° C. and containing about one part of free SO_2 in one thousand parts of water, clarifying the extract thus obtained and removing the free SO_2, concentrating the extract in vacuum and mixing a relatively small quantity of the extract with a larger quantity of concentrated grape juice.

1,401,352. CONTROLLING DEVICE FOR ELECTRICAL SYSTEMS. WILLIAM H. MOONEY, Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company, a Corporation of Ohio. Filed Feb. 21, 1919. Serial No. 278,391. 2 Claims. (Cl. 200—38.)



1. In a controlling device for electrical ignition and starting systems, the combination with a contact connected with a current source; of a second contact connected with an ignition system; a starting motor switch connected with said second contact; a third contact connected with another ignition system; and a movable switch member having spaced wide and narrow contact segments whereby in the off position of said movable member none of the contacts will be connected whereby in one on position of said member all three of said contacts will be connected, and whereby in another on position of said member only the first two contacts will be connected.

1,401,353. DRILL. JOSEPH F. MURRAY, Herrin, Ill. Filed Nov. 22, 1920. Serial No. 425,859. 5 Claims. (Cl. 255—61.)



1. A device of the character described comprising a body member having a bore in one end thereof, and slots extending laterally of the body member, said slots intersecting each other and the bore, a reaming bit disposed in one of said slots, and a pilot bit disposed in said bore and frictionally engaging the reaming bit.

1,401,354. LADDER. ELLSWORTH NICCUM, Kent, Wash. Filed Mar. 15, 1920. Serial No. 366,002. 3 Claims. (Cl. 228—21.)

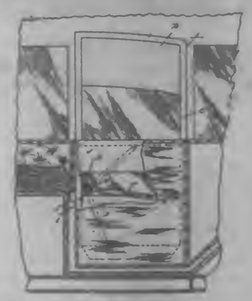
1. In an extension ladder, the combination of upper and lower ladder sections, props pivotally connected to

said sections respectively and having slidable connection with each other, and means for securing the prop of the



upper section against sliding movement downwardly with respect to the prop of the lower section.

1,401,355. COUNTERBALANCE-ARM AND SPRING. STANLEY W. NICHOLSON, Toledo, Ohio, assignor to Dura Mechanical Hardware Company, Toledo, Ohio, a Corporation of Delaware. Filed July 9, 1921. Serial No. 483,642. 6 Claims. (Cl. 16—200.)



2. In a device of the character described, the combination with a counterbalance arm, of a coiled spring, an anchorage member for the inner end of said spring floating centrally of the latter, and means rigidly securing said anchorage member to one end of said arm, the outer end of said spring forming a mounting for the same.

1,401,356. SHOE-RACK. FREDERICK L. PARCHERT, Brookline, Mass., assignor to Apsley Rubber Company, Hudson, Mass., a Corporation of Massachusetts. Filed Jan. 12, 1920. Serial No. 350,844. 1 Claim. (Cl. 211—14.)

An improved shoe rack comprising a skeleton frame having two vertical posts at each end of the rack, a plurality of horisontal stripe connecting the two front vertical posts, a plurality of horisontal stripe connecting the two rear vertical posts, the stripe which connect the front posts being arranged parallel with and in staggered relation to the stripe which connect the rear posts, a plurality of transverse end strips which connect each pair of vertical posts, each set of end strips being arranged in continuous zig-zag formation from the bottom to the top of the rack, the strips at one end being respectively parallel with those at the other end, and a plurality of rods par-



allel with each other connecting each pair of opposite end strips, thereby forming a plurality of shelves each inclined from front to rear, and directly above another, from the bottom to the top of the rack, the entrance to said shelves being alternately on the front and rear sides.

1,401,357. INVISIBLE WATERPROOF PRINTING FLUID. HERBERT P. PEARSON, New York, N. Y., assignor to Kendall Products Corporation, New York, N. Y., a Corporation of Delaware. Filed Sept. 12, 1921. Serial No. 500,154. 5 Claims. (Cl. 134—15.)

4. As a medium for printing invisible water-repellent characters, a mixture of a substantially five-per cent. solution of paraffin in a mixture of xylol and tetrachlorethane in substantially equal parts.

1,401,358. TAMPON. GUY SHERMAN PETTEKIN, Seattle, Wash. Filed Dec. 30, 1918. Serial No. 268,810. 2 Claims. (Cl. 128—270.)

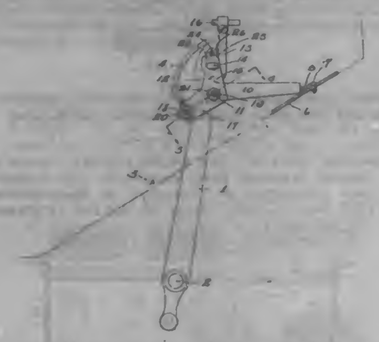


1. In a tampon, a body comprising a layer of non-absorbent material having its edges folded upon itself to provide a central recess, and a layer of absorbent material of approximately the diameter of said recess attached to the upper side of the first-named layer.

1,401,359. SAFETY NEUTRAL STOP FOR FORD CLUTCH-PEDALS. GEORGE G. PORTER, Syracuse, N. Y. Filed Oct. 7, 1919. Serial No. 328,984. 3 Claims. (Cl. 74—81.)

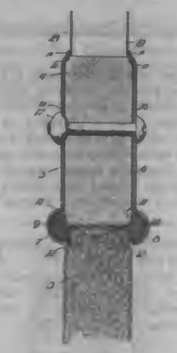
1. In a motor vehicle, the combination of a clutch and change speed pedal movable upwardly and rearwardly from neutral position into different operative positions, and means for normally locking the pedal from movement

forwardly from neutral position comprising a support carried by the pedal, a stop arm pivoted to the support, an upwardly extending lever pivoted to the support and arranged near the footpiece of the pedal and coacting



with said arm to trip the same, and a fixed stop normally in the path of the stop arm, the stop arm being movable by the movement of such lever out of the path of the stop, substantially as and for the purpose described.

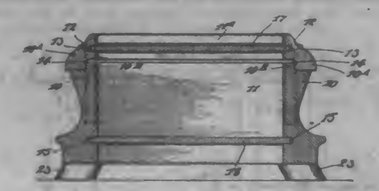
1,401,360. CURTAIN-WINDOW. CHARLES F. PRESTON, Chicago, Ill., assignor to Ernest J. Magerstadt, Chicago, Ill. Filed Dec. 11, 1917. Serial No. 206,628. 5 Claims. (Cl. 296—145.)



1. In a device of the class described, a glass, an intermediate frame surrounding the glass, a pair of clamping frames on opposite sides of said intermediate frame and overlapping the edge of the glass and the edge of the intermediate frame, annular recesses in the overlapping edges of said frames, and gaskets in said recesses.

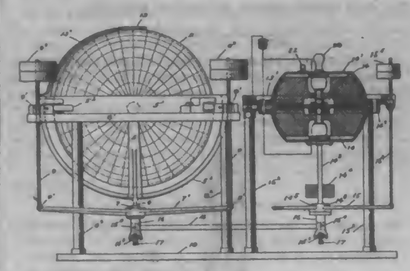
1,401,361. PROCESS FOR MAKING CONTAINERS. CHARLES F. PRESTON, Mamaroneck, N. Y., assignor to Jacques Bendien, New York, N. Y. Filed Apr. 5, 1921. Serial No. 458,761. 3 Claims. (144—309.)

1. A process for producing a container having a neck for retaining the cover from horizontal movement which comprises assembling three sides of the container, each side having two upper grooves and a lower groove within its inwardly exposed face and an upper groove within its outwardly exposed face below the lower upper inward groove, inserting a top member within the uppermost upper inward groove, inserting a bottom member within



the lower inward groove, fixedly attaching a fourth similarly formed side to produce a container and dividing the container into two parts between the lower upper inward groove and the upper outward groove.

1,401,362. NAVIGATIONAL INSTRUMENT. JOSEPH T. RENYNS, Brooklyn, N. Y., assignor of twenty-five one-hundredths to Robert M. Hayes, Brooklyn, N. Y. Filed Sept. 12, 1919. Serial No. 323,417. 10 Claims. (Cl. 33—204.)

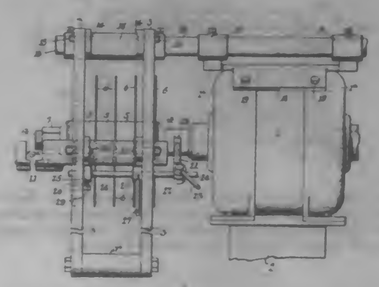


1. In an instrument designed for use in the art of navigation, a chart, the surface of which is that of a sphere and is inscribed with meridians and parallels; a spherical carrier for the chart; controllable means for rotating the chart about one of the axes of the carrier at a predetermined speed per revolution; means for supporting the carrier in stable equilibrium in a manner that will give it freedom for rotation about any of its axes; gyroscopic means for controlling that rotation; means for pivoting the support of the carrier in a manner that will render the combined weight of the support and supported mass non-pendulous and at the same time free to rotate on its vertical axis; means for preventing any lateral movement of the support and supported mass; means for stabilizing the vertical center line through the chart and spherical carrier; means for identifying on the chart the point where the vertical center line passes; and means for tracing on the chart a line that will correctly represent the successive changes of position of said point; substantially as described.

1,401,363. GANG-SAW MULTIPLE ROD-CUTTING MACHINE. STEPHEN RICHARD, Jr., Worcester, Mass. Filed Aug. 26, 1920. Serial No. 406,259. 2 Claims. (Cl. 143—46.)

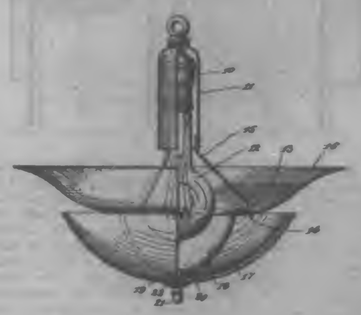
1. In a machine of the type described, including a work-holder having predetermined spaced apart slots, means for suspending said work-holder in operative position, rotary toothed cutting means adapted to be re-

ceived by said slots, a pair of substantially actuated swinging levers arranged with respect to said rotary cutting means, means effecting connection between said swinging levers and said work-holder, means for actuating said rotary cutting means, means for controlling said work-



holder from said levers, said swinging levers being provided with a gage cooperative with said work-holder, and means for controlling the positioning of said gage with respect to said work-holder and to form an abutment for the work therein during the sawing operation.

1,401,364. LIGHTING-FIXTURE. GROSVENOR P. ROBINSON, Summit, N. J. Filed Jan. 6, 1921. Serial No. 435,811. 3 Claims. (Cl. 240—92.)



1. In a lighting fixture, the combination of a lamp and socket therefor, a socket cover, a ring provided with an annular flange, a plurality of arms secured at their upper ends to the socket cover and at their lower ends to said ring whereby said ring is supported with the plane of its flange bisecting the axis of the lamp filament, an upwardly flaring reflector having an opening in its bottom surrounding said ring and seated upon its flange, a bowl, and means for detachably suspending the same from said ring.

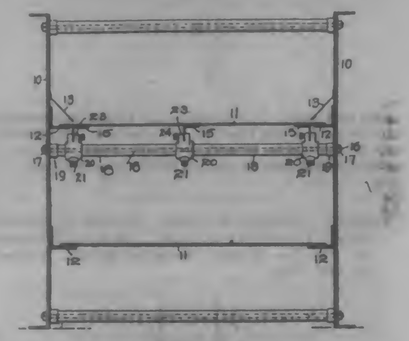
1,401,365. BOX-TOE FORM. ALBERT J. RYAN, Cincinnati, Ohio. Original application filed Mar. 24, 1919, Serial No. 284,701. Divided and this application filed Jan. 9, 1920. Serial No. 350,365. 5 Claims. (Cl. 12—64.)

1. A toe last for molding box toes, comprising a wooden form cut with a toe, whose surface corresponds to the toe of the shoe last in connection with which the molded box toe is to be employed, said toe of the toe last having



a body portion with a channel therein directly underlying the said corresponding surface for the purpose described.

1,401,366. SUPPORT FOR DRIER-APRONS. ALLAN C. SARGENT, Westford, Mass., assignor to C. G. Sargent's Sons Corporation, a Corporation of Massachusetts. Filed Dec. 13, 1920. Serial No. 430,116. 3 Claims. (Cl. 198—204.)



1. In a drier, the combination with a traveling apron, of a rod extending through the drier under the apron, a pipe on the rod extending across the drier from one side to the other in one piece, a plurality of supports each having a passage therethrough fitting and fixed to the pipe and provided with a projection slit transversely, and angle plates each having a flange clamped in one of said slits and a top flange located horizontally in position to receive the bottom of said conveyer thereon and support it.

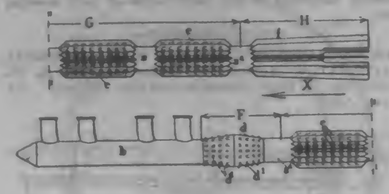
1,401,367. SHORT-CIRCUITING DEVICE FOR ELECTRICAL IGNITION APPARATUS. MAX SCHÄFER, Stuttgart, and ADOLF KRAUS, Cannstatt, Germany, assignors to Firm of Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Filed Aug. 26, 1919. Serial No. 320,060. 5 Claims. (Cl. 173—355.)



1. A short-circuiting device for electrical ignition apparatus comprising, a casing, a rotary interrupter disk

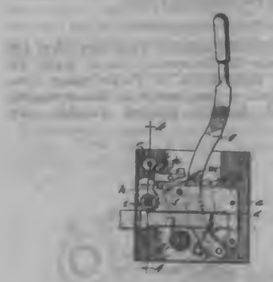
adapted to be screwed to the said casing, a fly-weight, a mechanical spring connection between the fly-weight and the casing, a contact carried by the said fly-weight, a second contact opposite to the said fly-weight contact, a support fixed to the casing and supporting the second contact, a thimble mounted on the interrupter disk, and a current-conducting pin attached to the said support and inserted in the said thimble.

1,401,368. EXHAUST-BOX. HUGO SCHNEEBELI, Courbevoie, France. Filed Nov. 29, 1919. Serial No. 341,514. 3 Claims. (Cl. 137—160.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



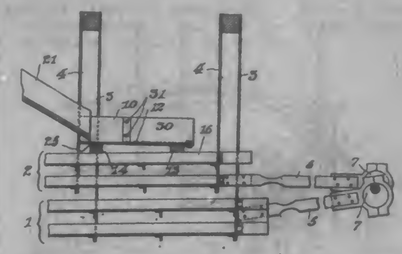
3. In an exhaust box for the engines of vehicles and the like, diffusion chambers comprising two truncated conical casings joined at their large bases and surrounding a central pipe of the exhaust box, said casings communicating directly with the central pipe, and having in their walls openings so arranged that the motion of the vehicle will cause the external air to advance the exhaust gases through the central pipe toward the discharge end thereof.

1,401,369. DOOR-LOCK. EMORY GLENN SIMPSON, Detroit, Mich., assignor to Fisher Body Corporation, Detroit, Mich., a Corporation of New York. Filed Jan. 22, 1920. Serial No. 353,218. 2 Claims. (Cl. 70—29.)



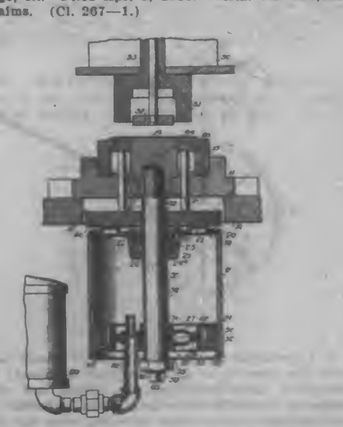
1. In a lock, the combination of a housing having parallel front and rear plates, a bolt slidable in said housing, an inside lever for independently retracting said bolt, an outside spindle provided with a retractor for retracting the bolt independently of the inside lever, a dog pivoted to the inside of one of the above mentioned housing plates, the said dog having a portion swinging in the same plane as the outside spindle retractor and having the swinging arcs of the dog and retractor intercepting, the dog capable of being set to prevent operation of the retractor, but permitting the retraction of the bolt by the inside lever and also by the shutting of the door, a disk pivoted to the plate carrying the dog, a cylinder lock for insertion in the outside of the door, a connecting spindle from the lock cylinder having a detachable but rotatable connection with the said disk, and a connection between the disk and dog involving lost motion to permit the extraction of the key from the lock but serving to actuate the dog to turn it from position of interference with the retractor to position of clearance or vice versa.

1,401,370. AUTOMATIC FEEDING MEANS FOR SHAKERS. PAUL STERLING, Wilkes-Barre, Pa. Filed July 5, 1919. Serial No. 308,792. 1 Claim. (Cl. 83—56.)



In an apparatus for separating or sizing coal and other like material, the combination of a reciprocating shaker structure, a trough-like feeding device secured thereto and reciprocating therewith, means for varying the position of said feeding device with respect to a horizontal plane, adjustable side plates at the delivery end of said device, means for adjusting said plates inwardly and outwardly, a chute for delivering material to said feeding device, the lower end of said chute extending between the sides of the said trough-like feeding device and terminating in proximity to the bottom thereof, substantially as described.

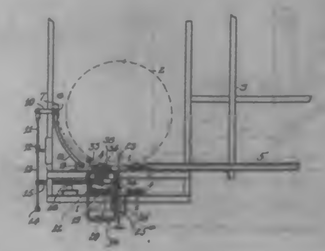
1,401,371. DIE-CUSHION. DAVID STRAND, Chicago, Ill., assignor, by mesne assignments, to Rudolph W. Glasner, Chicago, Ill. Filed Apr. 9, 1918. Serial No. 227,608. 13 Claims. (Cl. 267—1.)



2. A freely attachable and detachable fluid pressure die cushion embodying a cylinder and piston movable relatively one with relation to the other, and means for anchoring one of the parts against movement, the said means embodying a tubular element connected with one

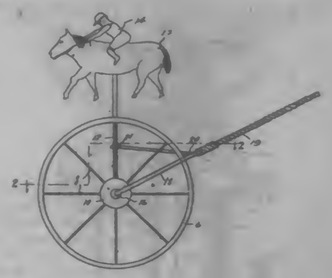
of the parts and a fastening bolt separate from the cushion and passing through the said element, and means on the bolt cooperating with one end of said element for supporting the cushion, the other end of the bolt detachably engaging a fixed support.

1,401,372. KICK-OFF MECHANISM FOR CONVEYERS. ROBERT F. SUTHERLAND, Rochester, N. Y., assignor to Vacuum Oil Company, New York, N. Y., a Corporation of New York. Filed Apr. 17, 1920. Serial No. 374,617. 11 Claims. (Cl. 198—20.)



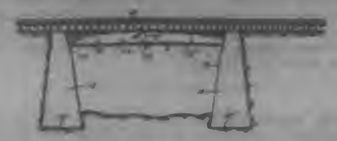
1. The combination with a movable conveyer, and a kick off device for moving articles from the conveyer, of a stop arranged in the path of articles on the conveyer, and mechanism controlled by the stop for connecting the conveyer with the kick off device to effect the movement of the latter through the movement of the conveyer when an article engages the stop.

1,401,373. WHEELED TOY. FERDINAND SVOBODA, Chicago, Ill. Filed May 6, 1920. Serial No. 379,341. 2 Claims. (Cl. 46—45.)



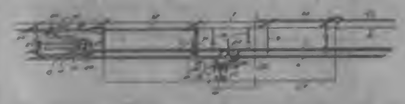
1. A trundling toy comprising spaced wheels having a wrist pin eccentric to and connecting the wheels, a yoke comprising arms embracing the wheels and pivotally connected therewith centrally of them, a handle extending from the yoke, a guide extending from the yoke between the wheels and a figure carrying rod pivotally connected with the wrist pin and slidably and rockably engaged with the guide, and having a figure mounted thereon at the opposite side of the guide from the wrist pin for corresponding movement with it.

1,401,374. BRIDGE. JAMES M. SHEPPARD, Mansfield, Ohio. Filed June 8, 1920. Serial No. 387,859. 2 Claims. (Cl. 14—17.)



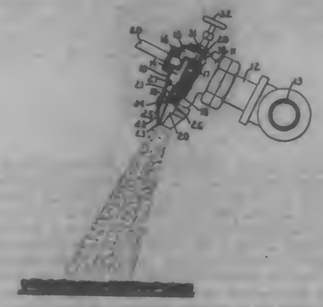
2. In a bridge, a pair of abutments and a beam engaged therebetween and comprising a plurality of sections hingedly connected at the lower edges of their meeting ends.

1,401,375. AUTOMATIC RAILWAY GATE AND SIGNAL APPARATUS. NICHOLAS P. THEOFILIS, Chicago, Ill. Filed Dec. 24, 1919. Serial No. 347,126. 1 Claim. (Cl. 246—125.)



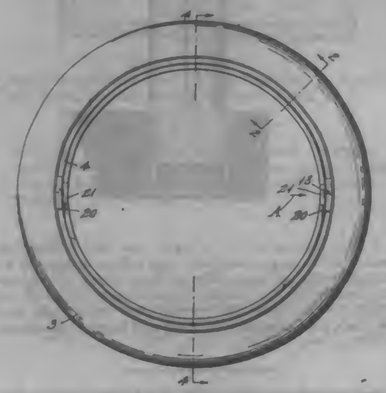
In an apparatus of the type described, the combination with an electric trolley system including a control circuit carried by the cars thereof, of motor operated gates arranged at highways crossing the tracks of said system, conductors arranged in sections parallel to the trolley wires of the system and extending for a distance on either side of the highway crossings, said conductors leading to and connecting the operating motor for said gates, an alarm circuit arranged adjacent to said gates and connecting said conductors for simultaneously operating with said gates, means carried by the cars of the system for closing the circuit between said conductors and the control circuit carried thereon, and manually actuated switch carried by each car of the system for operating the control circuits substantially and for the purpose set forth.

1,401,376. FIBER-CONDITIONING PROCESS AND APPARATUS. ALBERT W. THOMPSON, Lowell, Mass., assignor, by mesne assignments, to Parks-Cramer Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 14, 1917. Serial No. 202,090. 8 Claims. (Cl. 19—11.)



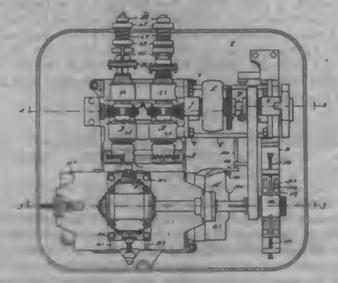
4. The process of moistening textile fibers which consists in forcibly projecting globules of a moistening liquid into a moving mass of textile fibers by means of a whirling jet of gaseous fluid, said jet being surrounded by an envelop of gaseous fluid also projected under pressure whereby the envelop of gaseous fluid will agitate said fibers and will concentrate the fluid carrying jet and cause the same to penetrate deeply into the mass, the quantity of fluid and the quality of globules being correlated to the character of the material treated.

1,401,377. RIM FOR VEHICLE-WHEELS. WEBSTER F. TRAVIS, Cleveland, Ohio. Filed Nov. 16, 1917. Serial No. 202,323. 17 Claims. (Cl. 301—32.)



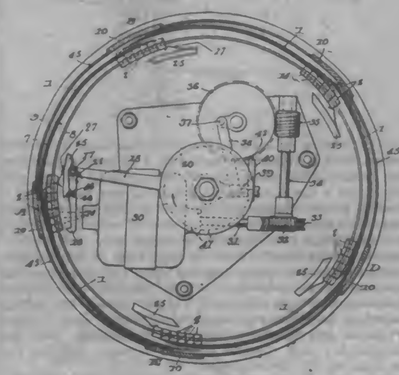
1. A rim for straight side or stiff bead tires, comprising cooperating members each having a tire seat and a tire retaining flange provided with a straight surface extending radially outwardly and engaging the side surface of the tire bead, and connecting means constructed and arranged to permit relative lateral movement between said members, said lateral movement reducing the effective girth of the tire seat and also causing movement of the tire bead relative to said flange surface to thereby loosen the tire from the rim.

1,401,378. MILLING-MACHINE. GEORGE T. TRUNDLE, Jr., Cleveland Heights, Ohio, assignor to The American Multigraph Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 2, 1919. Serial No. 321,076. 48 Claims. (Cl. 10—154.)



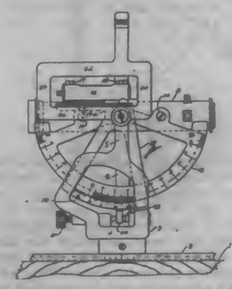
48. In a thread milling machine, the combination of a plurality of rotatable chucks having parallel axes, a slide transversely movable and a slide longitudinally movable relative to the axes of said chucks, a cutter housing carrying rotatable cutting means mounted on one of said slides, means for adjusting said housing along said slide, and means including cams for moving each of said slides to bring the stock in said chucks intermittently into operative relation with cutter means on said frame, to move said cutter means longitudinally of the chuck to provide a thread on the stock held therein, means for producing longitudinal movement of the slide, including a cam shaft having a cam removably mounted thereon outside of the frame of the machine.

1,401,379. DISPLAY MECHANISM. EDWIN F. VAN VECHTEN, Milwaukee, Wis. Filed Jan. 10, 1920. Serial No. 350,537. 16 Claims. (Cl. 40—78.)



1. Display mechanism including a drum provided with a plurality of display openings, a group of carriers associated with each opening, display cards having their forward ends secured to the carriers, means for guiding said carriers circuitously about the drum, and means moving from group to group for selectively actuating certain carriers, said cards being guided by overlapping carriers.

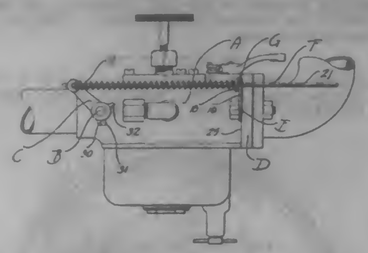
1,401,380. SURVEYING INSTRUMENT. FRANCIS E. VAUGHAN, Salt Lake City, Utah. Filed Jan. 11, 1921. Serial No. 436,563. 10 Claims. (Cl. 33—70.)



2. In an instrument for measuring vertical angles, the combination of a frame, a bubble tube adjustably supported relative to the frame, a sighting device provided with a pair of sights and pivotally mounted on the frame to swing in an upright plane independently of the bubble tube, a

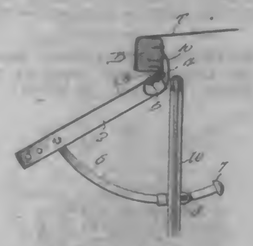
graduated arc and a subjecting index, the one being mounted to swing with the sighting device and the other being rigidly connected to and movable with the bubble tube.

1,401,381. CARBURETER ACCESSORY. CLYDE WEST, Fall River, Kans. Filed Jan. 4, 1921. Serial No. 434,944. 6 Claims. (Cl. 123—98.)



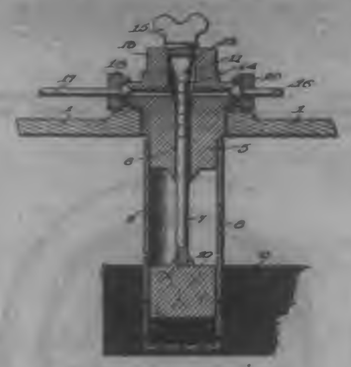
4. In a throttle attachment for carbureters, the combination with a carburetor including a lever for operating the choke throttle valve thereof, an operating rod for said lever, and a flange having an attaching bolt therein, of a bracket for detachably mounting upon said flange by said attaching bolt, said bracket having an aperture therein for operatively receiving said operating wire, and depending arms lying parallel with the main body of said bracket, and an expansion spring disposed about said operating rod and having a convolution thereof inserted intermediate said arms and main body portion of the bracket, said spring normally held under pressure intermediate said bracket structure and an end of said valve operating lever for maintaining said throttle lever in forward position for maintaining the throttle open.

1,401,382. STORM AND SUN GUARD FOR AUTOMOBILES. JOSEPH H. WHITISH, Fennimore, Wis. Filed Nov. 29, 1920. Serial No. 427,042. 4 Claims. (Cl. 296—97.)



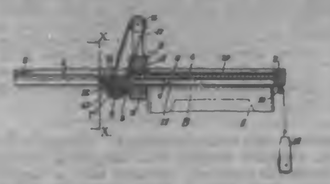
2. A vehicle windshield attachment comprising a guard adapted to be mounted in front of a windshield, hinges carried by the upper portion of the guard for connection to the front bow of a vehicle top above the windshield, and a trough of flexible material having one side portion connected with the upper portion of the guard, the free side portion of the flexible material being adapted to pass upwardly between the outer face of the windshield and front bow of a vehicle top and be connected with the front bow to provide a trough between the wind-shield and hinged end of the guard whereby water may be caught and prevented from entering the interior of an automobile between the space between the upper edge of the windshield and said bow.

1,401,383. FLOAT-CONTROLLED ENGINE SHUT-OFF. BENJAMIN S. WILLIAMS, Nashville, Tenn. Filed June 19, 1920. Serial No. 389,279. 18 Claims. (Cl. 123—198.)



1. The combination of a crank case and vacuum line leading to the intake manifold of an engine, and means associated with the crank case, through which the vacuum line has continuity, controlled by the level of oil in the crank case to close the vacuum line when said level reaches a predetermined low point and prevent destruction of the vacuum therein.

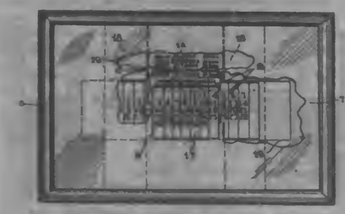
1,401,384. APPARATUS FOR USE IN MAKING FACED CONCRETE BUILDING-BLOCKS. WALTER WILSON, Dunfermline, Scotland. Filed July 17, 1920. Serial No. 397,086. 3 Claims. (Cl. 18—60.)



1. A machine for use in depositing stone chips or pebbles on to molded concrete blocks and the like, comprising a framework, a slide within the framework, a roller carried by the framework, flexible material secured at its one end and passed around the slide on to the roller, and means whereby as the flexible material is wound on and off the roller the slide is simultaneously traversed within the framework while acting to maintain the flexible material tightly stretched.

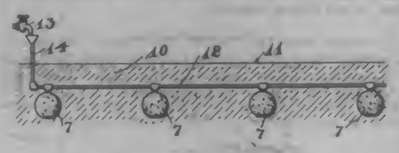
1,401,385. PERPETUAL CALENDAR. HAROLD O. WINDAHL, Chicago, Ill. Filed Nov. 24, 1920. Serial No. 426,288. 2 Claims. (Cl. 40—109.)

1. A calendar for disclosing any month comprising a holder provided with two rectangular openings in the face thereof, a strip on the face of said holder bearing the days of the week thereon, a sheet vertically slidable in said holder containing and disclosing a month with the respective number of days in said month and the number of said month in the year through the upper one of said openings, a sheet laterally slidable in the front of said vertically slidable sheet in said holder disclosing the days of the month through the lower one of said openings, and means extending from the backs of said



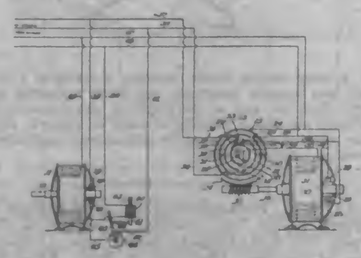
sheets through the back of said calendar for arranging said sheets to disclose any calendar month.

1,401,386. IRRIGATING SYSTEM AND METHOD OF APPLYING SAME. GEORGE B. WOODBERRY, Glendale, Calif. Filed Feb. 21, 1921. Serial No. 446,590. 4 Claims. (Cl. 61—18.)



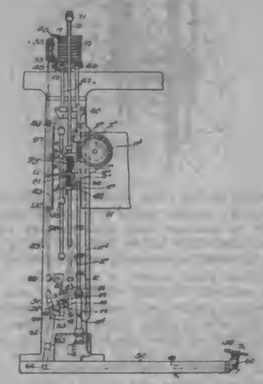
1. In an irrigating system, a hollow globular member made of porous concrete having an aperture in the top to allow an insertion and securing of a supply pipe so that water may be forced into the porous body to percolate into the surrounding soil so as not to be retained in the body after the supply pipe is shut off.

1,401,387. SYSTEM OF MOTOR CONTROL. CHARLES H. ALLEN, Chicago, Ill., assignor to Troy Laundry Machinery Company, Ltd., Chicago, Ill., a Corporation of New York. Filed Apr. 1, 1918. Serial No. 225,877. 4 Claims. (Cl. 172—239.)



1. In a system of motor control, a motor having an armature winding, a generator for supplying current to said motor, said generator having a field winding, and a controller for reversing the current supplied to the motor armature winding, the controller being further adapted to momentarily reduce the excitation of the generator, said reduction of excitation covering the period of the reversal of the motor armature current.

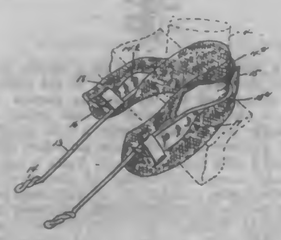
1,401,388. MULTIPLE-DRILL-PRESS-CONTROLLING MEANS. MARTIN BALCKER, Chicago, Ill., assignor to Marquette Tool & Mfg. Co., a Corporation of Illinois. Filed Dec. 18, 1919. Serial No. 345,823. 14 Claims. (Cl. 77—33.)



1. In combination with a drill press embodying a traveling drill head, mechanical means for operating the same and means for controlling the said operating means of fluid actuated means for shifting the said head independently of the first said means, means for controlling the operation of the fluid actuated means, and means operating automatically at two different predetermined points in the same direction of travel of the said head under the influence of the said fluid actuated means for controlling the latter.

8. Mechanism for controlling a drill press head embodying fluid actuated means for moving the head, means for rendering the fluid actuated means active to advance the head to the work, a controlling element separate from the fluid actuated means, means whereby the said fluid actuated means will operate independently of the said head to shift the said controlling element when the movement of the head under the influence of the fluid actuated means is arrested by the work to be operated upon by the drills, and means whereby the said mechanism will again be set in motion until the completion of the drilling operation.

1,401,389. ANCHORING DEVICE FOR WHEELED VEHICLES. WILLIAM W. BLAKELY, Detroit, Mich. Filed Jan. 25, 1919. Serial No. 273,157. 18 Claims. (Cl. 188—32.)



15. A wheel anchoring device comprising a wheel engaging member and a tie member loosely carrying the wheel engaging member at one end and provided with securing means at its other.

1,401,390. GEOGRAPHICAL CLOCK. AUGUST CARLIN, Seattle, Wash. Filed Dec. 16, 1920. Serial No. 431,007. 2 Claims. (Cl. 58—43.)



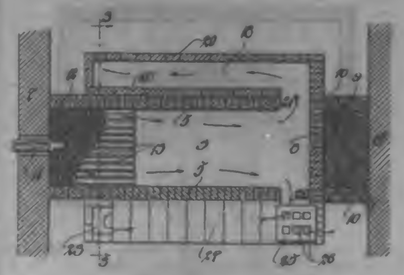
1. In a clock having clock hands and a non-rotary dial provided with an annular series of numbers ranging from "1" to "12" to indicate local time through the instrumentality of said clock hands, said dial being also provided with a circle surrounding said numbers and containing selected place names, a rotary dial formed of transparent material through which all of said numbers are coincidently visible, said rotary dial having at its periphery two sets of time indicating numbers ranging from "1" to "12," an arbor for rotating said rotary dial once each twenty-four hours for indicating by the numbers thereon concurrent time with respect to the places designated by said names and spring actuated means for yieldingly engaging said rotary dial to the arbor therefor.

1,401,391. VALVE-GRINDER. ANTON E. CARLSON, Merchantville, N. J. Filed Nov. 29, 1920. Serial No. 427,173. 2 Claims. (Cl. 51—29.)



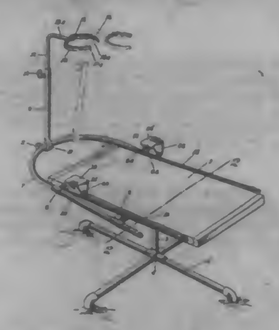
2. In a valve grinder, a casing, a spindle having its upper end provided with a bearing in the upper portion of said casing and its intermediate portion rotatably mounted in the lower portion of said casing, a pinion on the upper end of said spindle, a yoke pivotally supported at its lower end in the lower portion of said casing, and provided with internal parallel walls, a cam member within said casing and having its periphery engaging said parallel walls, a rotary pin on which said cam member is eccentrically mounted, said pin being journaled in said casing, a rack on the upper portion of said yoke engaging said pinion, a collar on said spindle adapted to engage the lower portion of said casing, and thereby to retain said pinion in mesh with said rack, and a handle connected to said pin for continuously rotating the latter and said cam member, thereby imparting oscillatory motion to said spindle.

1,401,392. BAKER'S OVEN. SAMUEL E. COOK, Spokane, Wash. Filed July 17, 1920. Serial No. 397,015. 3 Claims. (Cl. 107—55.)



1. The combination in a baker's oven, of a central combustion chamber, and a separate return flue structure at each side of the combustion chamber having front openings into the baking chamber above the combustion chamber, and a perforated cap block above a rear opening in the ceiling of each flue to provide for equal distribution of heat to the baking chamber.

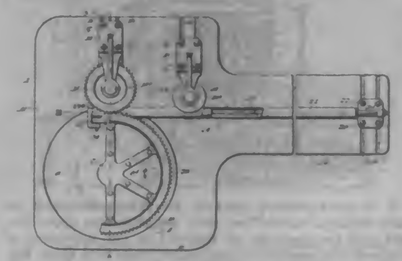
1,401,393. SHEEP-HOLDING DEVICE. SILAS H. CROSS, Sacramento, Calif. Filed Jan. 22, 1921. Serial No. 439,125. 4 Claims. (Cl. 119—103.)



1. A sheep holding device including a platform, a vertically and laterally adjustable neck clamp projecting upwardly from one end of the platform, and horizontally positioned leg clamps swivelly mounted on opposite sides of the platform and arranged for independent longitudinal movement relative thereto.

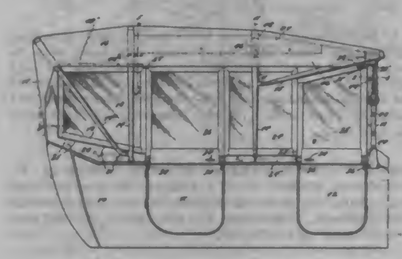
1,401,394. PIPE-BENDING MACHINE. HOMER P. CURTIS, Denver, Colo., assignor of one-half to The Plains Iron Works Company, Denver, Colo., a Corporation of Colorado. Filed Aug. 17, 1920. Serial No. 404,152. 6 Claims. (Cl. 153—40.)

1. The combination with a pipe bending machine, of the bed plate and its shaft bearings, the vertical shaft journaled therein and extending above said bed plate; with a circular table mounted on and secured to said vertical shaft, means including gearing and a multiple speed pulley for rotating said table, and with the pipe curving former removably secured to the top of said table, said former comprising a casting having a hub member removably mounted on and secured to the said vertical shaft, and a peripheral portion, the face of which contains a stepped shoulder at its bottom edge, a semi-circular groove in its central portion adapted to fit around a pipe, and a gear-toothed portion at its upper edge portion, and with the driven roller adjustably mounted in pipe engaging relation to the peripheral por-



tion of said former, and having gear teeth around its upper edge meshing with the gear teeth of said former, and provided with a semi-circular pipe fitting groove positioned opposite to the pipe receiving groove in said former, and having a stepped bottom edge portion fitting into the stepped portion in the bottom edge of said former.

1,401,395. AUTOMOBILE-TOP CLOSURE. JOHN A. DAAB, New York, N. Y. Filed Dec. 10, 1919. Serial No. 343,846. 7 Claims. (Cl. 296—45.)



1. The combination with a vehicle body having a top which is open at the sides, of a plurality of transparent panels between the top and body, a fixed strip secured to some of the transparent panels, and an extension member adapted to be set in different positions with respect to the strip to close the space between the top and fixed strip.

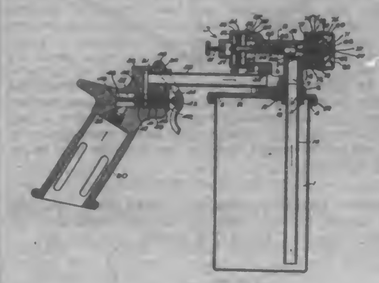
1,401,396. SPEEDOMETER. BETHUEL M. DAVIS, Chicago, Ill. Filed Dec. 1, 1919. Serial No. 341,716. 6 Claims. (Cl. 175—355.)

3. In a speedometer for use in connection with motor vehicles, means for indicating the speed of the vehicle, a normally open electric circuit, a locking device controlled by a pair of keys, either of said keys being adapted to operate said locking device to close said circuit, means for opening said circuit at a predetermined speed of said



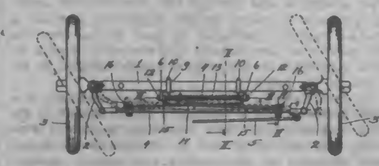
vehicle, and means controlled by but one of said keys for determining the speed at which said circuit will be opened.

1,401,397. TOOL FOR APPLYING COATING. HERBERT W. DAY, Wollaston, Mass., assignor to Spray Engineering Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 5, 1920. Serial No. 414,002. 17 Claims. (Cl. 91—45.)



1. Means for applying coating comprising in combination, a container for the coating material, a cover therefor, a coating gun or tool proper having passages for coating material, and a motive agent under pressure, a coating pipe secured to the coating gun or tool proper, said coating pipe extending through the cover and secured thereto, thereby securing the coating gun or tool proper to the cover, and means carried wholly by the cover for detachably connecting said cover to the container.

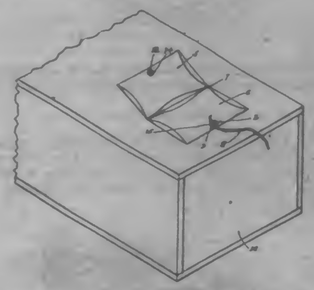
1,401,398. STEERING DEVICE FOR AUTOMOBILES. JOSEPH T. DUNCAN, Long Beach, Calif. Filed Aug. 16, 1920. Serial No. 403,764. 3 Claims. (Cl. 28—94.)



1. The combination with a front axle and knuckle-connecting rod of an automobile, of a pair of arms rigid

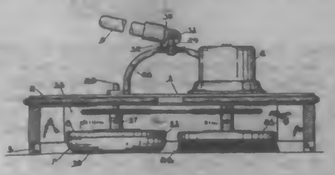
with and projecting from the axle toward said rod, a rod carried by said arms in parallel relation to the axle, a pair of clips clamped on the said knuckle-connecting rod, a pair of rods respectively slidingly engaged with said clips and slidingly connected to the rod carried by said arms and provided at their outer ends with hooks incapable of passing through the respective clips, and a tensioned coil spring mounted upon the rod and exerting pressure at its outer ends against said pair of rods and tending to clamp the same yieldingly against the adjacent arms projecting from the axle.

1,401,399. ENVELOP SHIPPING-LABEL. ARTHUR D. GASPAR, Waukesha, Wis. Filed Jan. 21, 1921. Serial No. 438,866. 2 Claims. (Cl. 229—74.)



1. An integral pair of envelops adapted to be folded together to close both, means for reinforcing one envelop at one point, said means being adapted to receive a nail to be driven into the shipment and means associated with said reinforcing means whereby the envelops may be secured together.

1,401,400. FLOOR-FINISHING APPARATUS. ANDREW W. GREEN, Toronto, Ontario, Canada. Filed Dec. 15, 1920. Serial No. 431,019. 6 Claims. (Cl. 91—37.)

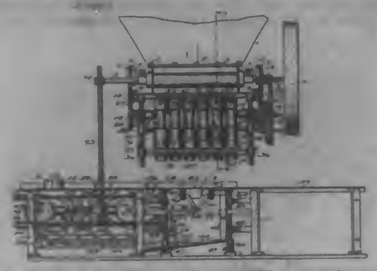


1. A rotatable floor finishing tool comprising a frame; a resilient cushion adjacent the lower side of said frame; a perforate wax carrying pad secured below the cushion; a porous member secured under the carrying pad and adapted to spread the wax.

3. In floor finishing apparatus, the combination of a carriage provided with floor finishing means; a supporting member secured to said carriage and provided with holes; a pin vertically journaled in said supporting member; a handle horizontally journaled on said pin so that the handle may swing horizontally and vertically; and a depending projection carried on the handle adapted to engage one of the holes.

5. In floor finishing apparatus, the combination of a carriage provided with a bearing; a motor secured to the carriage and provided with a depending spindle; a floor finishing tool carried directly on the spindle; a second spindle journaled in the bearing and axially movable therein and adapted to be rotated by the motor; and a frame secured to the last mentioned spindle and adapted to carry a floor finishing tool.

1,401,401. AUTOMATIC RECEPTACLE-FILLING MACHINE. LOUIS H. HARTMAN, Toledo, Ohio, assignor to The Valve Bag Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 16, 1919. Serial No. 331,070. 5 Claims. (Cl. 226—72.)



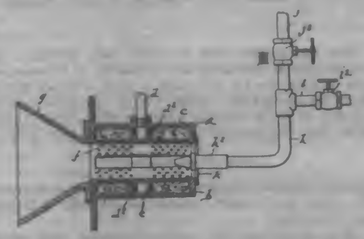
3. In an automatic machine for filling containers, a table having a movable top part, means located above the said part for directing the material to the containers, a reciprocatory member for moving the containers along the table, means for operating the reciprocatory member and raising the table top part to raise the containers to the said means for directing the material to the containers, a tapper for striking the under side of the said part for shaking the material down in the containers, means for operating the said tapper.

1,401,402. BRACKET. ELLSWORTH A. HAWTHORNE, Bridgeport, Conn. Filed Feb. 28, 1917. Serial No. 151,482. 2 Claims. (Cl. 240—7.)



1. In combination with a lamp body, a bolt extending through the lamp shell upon which the lamp may be turned, an internal clamping element adjustable on said bolt, and a member adjustable on the bolt externally of the lamp body and adapted to be clamped thereagainst and having a continuously recessed rim adapted to fit over the bolt head.

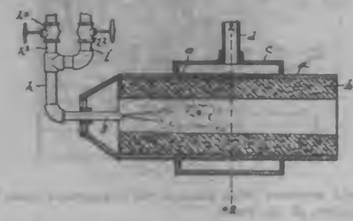
1,401,403. HYDROCARBON-BURNER. WILLIAM M. HOFFMAN, Buffalo, N. Y., assignor to General Fuel Apparatus Corporation, Buffalo, N. Y., a Corporation of Delaware. Filed June 7, 1920. Serial No. 387,002. 11 Claims. (Cl. 158—28.)



1. In a hydrocarbon burner, an upper and lower plate, such plates spaced from each other and so formed as to provide a combustion chamber therebetween of

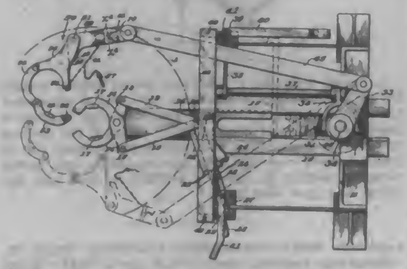
enlarged extent intermediate its ends, said burner plates formed of a refractory porous material through which fuel oil is adapted to percolate to the interior of the burner.

1,401,404. HYDROCARBON-BURNER. WILLIAM M. HOFFMAN, Buffalo, N. Y., assignor to General Fuel Apparatus Corporation, Buffalo, N. Y., a Corporation of Delaware. Filed June 7, 1920. Serial No. 387,003. 15 Claims. (Cl. 158—28.)



1. In a hydrocarbon burner, a combustion chamber in the form of a hollow refractory, porous core, a vapor jet producing means positioned at one end thereof adapted to project a jet of vapor therein, an encircling casing for such core provided with a jacketed portion, the inner wall of such jacket perforated to permit the passage of fuel therethrough to the core, means for supplying fuel to said jacketed casing.

1,401,405. PIPE-SCREWING MACHINE. MORRIS C. HOLM, Pasadena, Calif. Filed May 23, 1921. Serial No. 471,939. 12 Claims. (Cl. 255—35.)



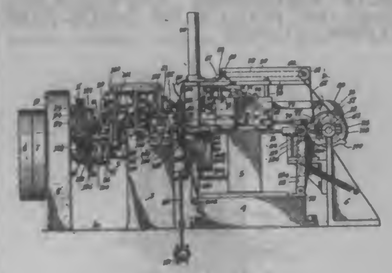
1. In a device of the nature disclosed the combination including a frame, a rotary drive element, means for holding a pipe section against rotation, an oscillatory pipe tong adapted to engage and operable to intermittently turn the adjacent pipe section, and motion transmitting mechanism intermediate the drive element and the tong.

1,401,406. CUSHION FOR HEADRESTS. REY HOLLIS, Santa Barbara, Calif. Filed Feb. 14, 1921. Serial No. 444,633. 5 Claims. (Cl. 155—173.)



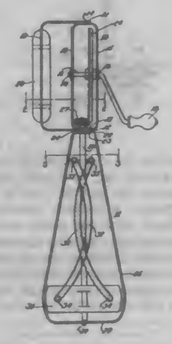
1. In a cushion for head rest, a pad, and attaching members fastened to the under surface of the pad and provided with means to contract them.

1,401,407. BOX-MAKING MACHINE. JAMES W. HUGHES, Haddon Heights, N. J., assignor to Samuel Nelson and Isaac Avart, Philadelphia, Pa. Filed Dec. 4, 1915. Serial No. 64,978. 17 Claims. (Cl. 93—55.)



1. In a machine of the character stated, the combination of a revolving turret carrying a plurality of chucks, feeding devices for supplying circular box bodies to the chucks in succession, means for operating the chucks to automatically grasp the box bodies when in position to receive said box bodies from the feeding devices, means for feeding box backs to the chucks of the turret in succession, clamping devices for clamping the box backs upon the box bodies, means for intermittently rotating the turret to successively bring the chucks into position to coöperate with the feeding devices for the box bodies and feeding devices for the backs in succession, means to rotate the chucks when brought into position to coöperate with the clamping devices, and a rotating wheel and intermittently acting means for imparting a partial rotation to the wheel to feed glued binding strips upon the respective box bodies and freely rotatable to apply the glued papers about the bodies and perimeters of the backs during the rotation of the chucks.

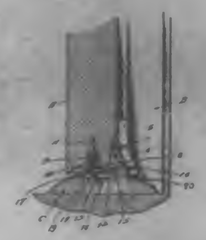
1,401,408. BEATER. HENRY M. HULL, Fairfield, Conn. Filed Feb. 18, 1921. Serial No. 446,065. 4 Claims. (Cl. 259—135.)



1. A device of the character described, comprising an upper and a lower frame, said upper frame consisting of a single strip of metal bent to provide three support members, a support handle upon one of said support members, a crank shaft with operating handle mounted in two of said support members, a gear fixed upon said crank shaft, a spindle mounted in said frames, a beater

element fixed upon said spindle, and a pinion upon said spindle and arranged to mesh with said gear, said support handle being parallel with said two support members.

1,401,409. WEATHER-STRIP. CLYDE M. JONES, Sacramento, Calif. Filed Jan. 23, 1918. Serial No. 213,846. 2 Claims. (Cl. 20—67.)



1. A weather strip comprising a hinged plate supported for swinging movement, means to hold said plate outwardly in an inclined position, a lever loosely connected to the plate and having a longitudinal slot therein, a pin movably supporting said lever and extending through said slot, a spring surrounding said pin normally holding said lever downwardly disposed, said lever having an engaging end designed to abut a shoulder whereby to cause said plate to be drawn to a vertical position upon the closing of a door to which said plate is connected, opposite movement of the door permitting the plate to return to an outward position.

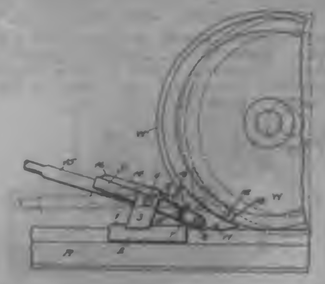
1,401,410. AUTO SAFETY-BUMPER. LOUIS O. KALMAN and ABRAHAM S. SHAPIRO, Montreal, Quebec, Canada. Filed Sept. 3, 1921. Serial No. 498,208. 3 Claims. (Cl. 293—41.)



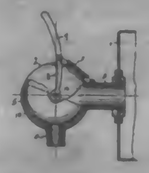
1. The combination in a machine of the character described, of a rotatable bar, a frame supported by said bar, springs engaging the bar for raising the frame upon release of the latter, a hollow tubular bar, a roller therein, a net wound upon the roller and secured to the frame, a latch member for engaging the frame and holding the same in lowermost position, an operative communication between the latch member and the bumper for releasing the same upon movement of the bumper, substantially as and for the purposes set forth.

1,401,411. CAR-MOVER. FRANK A. KELL, St. Louis, Mo., assignor of one-fourth to W. C. Davison, St. Louis, Mo. Filed Sept. 29, 1920. Serial No. 413,561. 12 Claims. (Cl. 254—88.)

1. A car-mover including, in combination, a base adapted to seat upon a rail, an operating lever mounted for swinging movement upon and relatively to the base, and a plurality of tumblers pivotally carried by the lever for engagement with the car-wheel and its flange, one of said members being adapted for engagement upon the tread-face of the wheel.

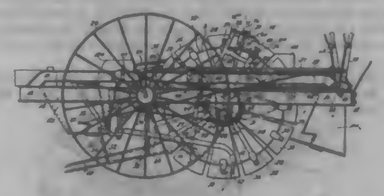


1,401,412. FAUCET. GEORGE C. KLEIN, Houston, Tex. Filed June 29, 1920. Serial No. 392,647. 1 Claim. (Cl. 221—98.)



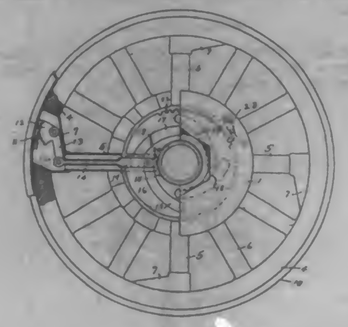
A faucet including a spherical shaped hollow casing, having an inlet and a discharge opening, a cup-shaped valve fitted within said casing and having an opening, a handle for manipulating the valve to carry the opening thereof into registration with said outlet opening and to simultaneously close the inlet opening, and a pull spring normally holding the valve in position to close said discharge and open said inlet.

1,401,413. BEET-HARVESTING MACHINE. FRANK W. KNOWLES, Portland, Oreg. Filed Apr. 3, 1917. Serial No. 159,464. 3 Claims. (Cl. 55—108.)



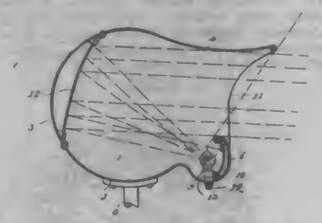
1. In a beet harvesting machine, a revolving gripping device for grasping the tops of beet plants and withdrawing said plants from the ground, cutting means for severing the beets from their tops and delivering the beets to a receptacle, and vibratory means for reciprocating said cutting means operated by the rotation of the gripping device.

1,401,414. VEHICLE-WHEEL. CHRISTIAN H. LARSON, Guffey, Tex. Filed May 7, 1921. Serial No. 467,645. 3 Claims. (Cl. 301—17.)



1. A wheel having a felly formed with seats, a rim mounted on the felly and formed with projections which normally rest in said seats, an actuating device formed in the wheel hub, and operative connections between said device and the rim, whereby rotation of the former is imparted to the latter.

1,401,415. LAMP. HOWARD W. LESTER, Hartford, Conn. Filed Jan. 20, 1920. Serial No. 352,647. 1 Claim. (Cl. 240—41.)

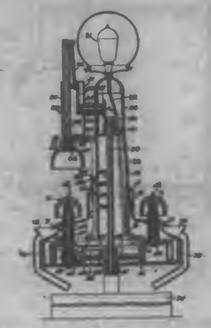


A lamp comprising a casing having a light opening, a reflector in the back of the casing, to project rays through said light opening, a reflector in the casing to receive rays from a lamp and which are projected thereby onto the other reflector, a hollow bar for conductors mounted below the casing, lamp sockets in the casing at the base of and back of the second reflector, the sockets being adapted to receive the said conductors for connection with the lamp, the forward lower side of the casing being curled upwardly and rearwardly to cover the lamp from the front of the casing, the latter being curled upwardly and forwardly beyond the lower portion thereof.

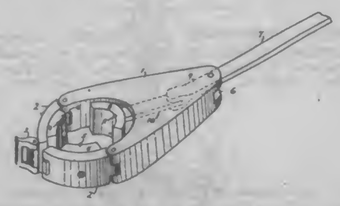
1,401,416. MACHINE FOR EXTRACTING JUICE FROM FRUIT. JOHN C. LIGGETT, Brookline, Mass., assignor to James L. Demoville, Boston, Mass. Filed May 8, 1916. Serial No. 96,041. 13 Claims. (Cl. 100—50.)

7. In a machine for extracting juices from citrus fruit and the like, the combination of a base, a turret rotatably mounted thereon, a hollow column extending from said base upward through said turret and provided with a guideway, a plurality of fruit carriers of generally hemispherical shape and having shafts whose axes are generally parallel with the axis of said turret, a cup-like member to coöperate with each of said carriers to squeeze the fruit thereon, a slide mounted for reciprocation in said guideway and serving as a support for said cup-like member, a shaft within said column, mechanism driven by said shaft for reciprocating said slide, mechanism operated by said slide for imparting to said turret a step-by-step rotation to bring said carriers one by one into position preparatory for coöperation with said cup-like member, mechanism connected with said shaft for rotating each carrier when so positioned, means for receiving the juices squeezed from said fruit, and means for discharging a stream of said juices onto said carriers between their periods of coöperation with said member.

9. In a machine of the class described, a traveling carrier, a plurality of convex members thereon, impaling points on said members, a corresponding concave member adjacent the path of the carrier and means to press the same against successive convex members as they are presented adjacent thereto.



1,401,417. PIPE-TONGS. GEORGE A. LOWERY, Goose Creek, Tex. Filed Feb. 7, 1921. Serial No. 443,034. 3 Claims. (Cl. 81—01.)

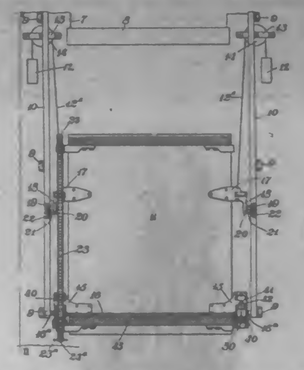


1. A tong, including a head, clamps carried thereby and adapted to be engaged around the object to be turned, a jaw, working independent of the clamps, a handle pivoted to the head and toggle levers connecting said handle with said jaw.

1,401,418. ELEVATOR-DOOR. EDWARD H. MCCLOUD, Columbus, Ohio, assignor to The Kinnear Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Oct. 21, 1919. Serial No. 332,262. 5 Claims. (Cl. 187—60.)

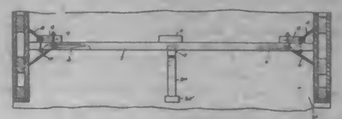
1. The combination with a building having an elevator shaft, a doorway leading from a floor of the building to said shaft, a car to move in said shaft, an upwardly

sliding door for said doorway, an inclined guide for the door secured to the wall of the shaft and means in con-



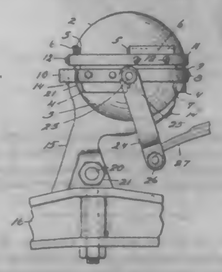
nection with the door and guide to move the door facewise relatively to the guide toward the doorway.

1,401,419. REMOVABLE BULKHEAD. JAMES T. MCNALLY, Chicago, Ill. Filed Mar. 28, 1921. Serial No. 456,118. 7 Claims. (Cl. 105—369.)



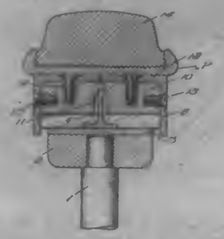
1. A bulkhead comprising wooden members rigidly fixed together; a spring actuated member swingingly mounted on said bulkhead adapted to engage the side wall of a freight car retaining said bulkhead in operative position, substantially as described.

1,401,420. SUSPENSION AIR-CUSHION. GEORGE S. MATTHEWS, Kansas City, Mo., assignor of one-half to Augustine Doehler, Kansas City, Mo. Filed Sept. 20, 1920. Serial No. 411,570. 2 Claims. (Cl. 267—32.)



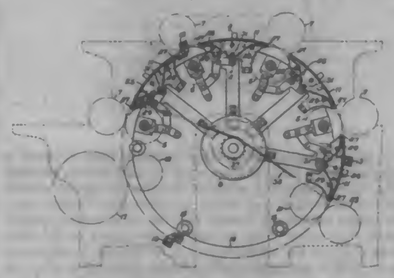
1. A shock absorbing suspension device, comprising a resilient sphere, hemi-spherical housing members inclosing the upper and lower parts of the sphere, and provided with marginal tongues and recesses, the tongues of one member extending into the recesses of the other member, external stops secured to the margins of the upper member, external stops secured to the margins of the lower member in a plane slightly above the stops of the upper member, and relatively movable supports for said members.

1,401,421. INNER-CUSHIONED WHEEL. FRANCIS MEAD, Chicago, Ill. Filed Oct. 10, 1918. Serial No. 257,672. 8 Claims. (Cl. 152—36.)



8. In an inner cushioned wheel of the class described, an inner rim member, a T-band disposed thereon, and driving dogs secured to the inner rim member and overhanging base portions of the T-band to clamp the latter to the said rim member.

1,401,422. PRINTING-PRESS. CHARLES A. MEISEL, Dorchester, Mass., assignor to Meisel Press Manufacturing Company, Dorchester, Mass., a Corporation of Massachusetts. Filed Mar. 29, 1920. Serial No. 369,597. 10 Claims. (Cl. 101—184.)

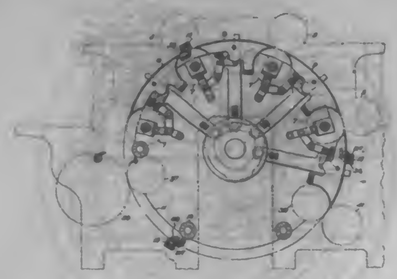


1. A press comprising a plurality of printing couples the contact lines of which correspond to elements of a cylinder, means to carry a sheet around the cylinder, means for supporting the sheet as it passes to the couples comprising belts having runs lying in the cylindrical surface and means for moving said runs in the opposite direction to the travel of the sheet.

1,401,423. PRINTING-PRESS. CHARLES A. MEISEL, Dorchester, Mass., assignor to Meisel Press Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 29, 1920. Serial No. 369,599. 4 Claims. (Cl. 101—184.)

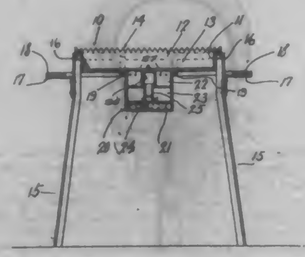
1. A printing press comprising in combination one or more printing couples, a sheet supporting surface over

which the sheet is advanced in the printing operation, a carrier for the sheet comprising a bar overlying said



surface and having a portion substantially contacting therewith and means for holding the end of a sheet bent over said contacting portion of the bar.

1,401,424. POULTRY-WATERER. EDWIN C. MELLICK, Formoso, Kans. Filed June 22, 1920. Serial No. 390,894. 2 Claims. (Cl. 126—358.)



1. A device of the class described comprising a trough, a pair of metallic strips secured upon opposite sides of said trough and extending beneath the same, a metallic casing carried by said strips and having a plurality of openings therein adjacent the upper edges thereof, a fuel chamber disposed in said casing, a lamp extending from said fuel chamber, a heat chamber disposed in said casing above said fuel chamber, a chimney surrounding the upper end of said lamp and extending into said heat chamber, and a cylinder surrounding the upper end of said chimney and terminating short of the bottom of said trough.

1,401,425. HOSE-NOZZLE. HARRY E. MENO, Oak Park, Ill., assignor to W. D. Allen Manufacturing Company, Chicago, Ill., a Corporation. Filed Apr. 5, 1920. Serial No. 371,204. 7 Claims. (Cl. 299—117.)

1. A hose nozzle comprising a hollow body provided with a discharge orifice at one end and having its interior so channeled as to cause the water directed therethrough to pass from said orifice either as a straight stream or as a spray and having a valve seat, and a chambered inner member or spindle provided with a valve and arranged revolubly and axially movable within said body and adapt-



ed to direct the water to different parts of said channeled body and to shut off the flow of water through said body.

1,401,426. HANDBAG. GEORGE H. METTERNICH, Chicago, Ill. Filed Aug. 30, 1920. Serial No. 406,971. 5 Claims. (Cl. 150—46.)

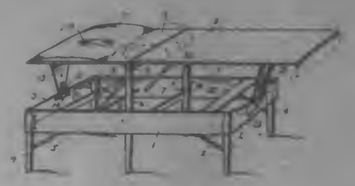


2. An article of the class described, comprising a hand bag having an opening on one side adjacent the top; a closure member hingedly mounted to the top side of said opening; a purse hingedly mounted on the exterior side adjacent the lower edge of said closure member; and means for locking said hand bag and said purse, substantially as described.

1,401,427. ADJUSTING-TABLE. JESSE G. MILLER, Superior, Wis. Filed Oct. 29, 1920. Serial No. 420,429. 2 Claims. (Cl. 128—74.)

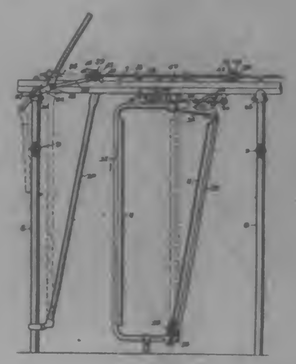
1. A table of the character described comprising a rectangularly shaped main body supporting portion of fabricated structure, supporting legs hingedly attached within the corners thereof, a foldable patient-supporting section pivotally mounted within the body portion and adjustable to a position above same, a portion of said

foldable section forming a cooperative part of the easy portion when the former is in its folded position and a



single removable section forming a similarly cooperative portion with the body when assembled.

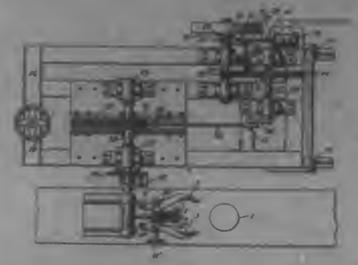
1,401,428. STANCHION-CONTROL MECHANISM. WILLIAM MITCHELL, Milwaukee, Wis. Filed June 18, 1919. Serial No. 304,060. 3 Claims. (Cl. 119—148.)



1. The combination with a stall provided with a longitudinally channeled top frame member, of a stanchion mounted in said stall and provided with a movable slide bar, a side block mounted within the top frame member, a link operatively connecting said slide block to said side bar, means producing lateral movement of said slide block to open or close the stanchion, and a latch concealed in the channel of the top frame for engaging said block to keep the stanchion closed when desired.

1,401,429. APPARATUS FOR HANDLING ROLLS OF ROOFING, BARRELS, BOXES, AND SIMILAR ARTICLES. ALBERT E. F. MOORE, Cincinnati, Ohio, assignor to The Philip Carey Manufacturing Company, a Corporation of Ohio. Filed May 24, 1919. Serial No. 299,497. 35 Claims. (Cl. 214—1.)

1. In an apparatus for moving rolls, boxes, barrels, and packages, means adapted to carry the article to be moved, comprising a pair of gripping arms pivotally mounted on a supporting frame, a magnet for operating said arms, means connecting the movable member of said magnet with the arms whereby the free end of said arms may be moved toward and away from each other depending upon the direction of the movement of the movable



member of said magnet, and a switch adapted to be operated by the article to be handled so as to make circuit through the magnet to operate the gripping arms.

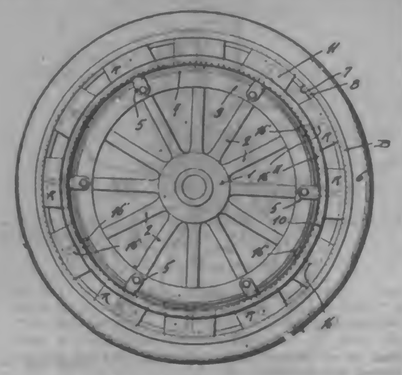
1,401,480. DEMOUNTABLE RIM. FREDERICK H. MEYER, Johnstown, Pa. Filed Jan. 10, 1918. Serial No. 71,160. Renewed Apr. 29, 1921. Serial No. 465,801. 6 Claims. (Cl. 152—21.)



1. A device of the character described, comprising, an integral rim or tire base, split transversely at a single point and at an angle to the radius of the wheel, a tongue projecting circumferentially from one extremity, the opposed extremity provided with a corresponding recess, and a separate locking device inserted in the circumferential edges of said tongue and recess, and means in said device preventing radial separation of the said rim extremities.

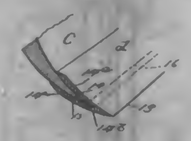
1,401,481. RESILIENT WHEEL. CHARLES NEIMEYER, Little Rock, Ark., assignor to Demountable Spring Tire Company, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 16, 1920. Serial No. 404,002. 4 Claims. (Cl. 152—26.)

1. A wheel having an inner rim, an outer rim surrounding said inner rim, one of said rims being provided with an annular track facing the other rim, and an annular row of resilient expanding rubber members arranged circumferentially of said annular track and interposed between said rims to form a yielding frictional connection between said rims, each of said resilient rubber members comprising relatively hard rubber ribs separated from each other and frictionally engaging said annular track and a yielding rubber element yieldingly connecting



said separated hard rubber ribs and cooperating therewith to force the ribs onto said annular track.

1,401,432. DETACHABLE PLOWSHARE EDGE. PETER A. NORDQUIST, Ogden, Utah, assignor to Detachable Plow Share Edge Manufacturing Company, Ogden, Utah. Filed Apr. 29, 1920. Serial No. 377,556. 1 Claim. (Cl. 97—18.)



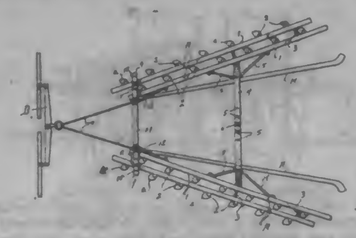
The combination with a plow share edge having a substantially straight portion and an outwardly and forwardly curved portion at its forward end, of a detachable plow edge therefor, said detachable edge comprising a substantially V-shaped bar having a longitudinally disposed V-shaped channel extending throughout the entire length of the detachable edge, the flanges of said detachable edge being so spaced that when the plow edge is forced into the V-shaped channel, said flanges will frictionally engage the upper and lower faces of the plow share so as to hold the detachable edge thereon, the forward end of the detachable edge conforming to the outwardly and forwardly curved portions of the share edge.

1,401,433. PROCESS FOR RECOVERING MATERIALS FROM MOLASSES. HOLGER DE FINE OLIVARIUS, San Francisco, Calif. Filed Jan. 14, 1919. Serial No. 271,104. 1 Claim. (Cl. 127—15.)

The process of recovering sucrose from molasses which includes mixing the molasses with alcohol, adding an amount of lime to the solution to precipitate organic and coloring matter without precipitating the sucrose, separating the precipitate from the solution and agitating the alcoholic solution in the presence of a further amount of lime whereby substantially all of the sucrose is precipitated as calcium saccharate.

1,401,434. FARM IMPLEMENT. PHINIAS A. ORMAN, Vincennes, Ind. Filed Mar. 22, 1920. Serial No. 367,805. 1 Claim. (Cl. 55—125.)

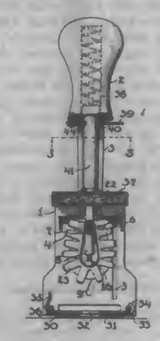
An agricultural implement comprising two sections, each of said sections including an inner and outer elongated member connected to each other in spaced parallel relation, a rigid connecting member pivoted at its ends to one of the corresponding ends of said outer elongated members, and an adjustable connecting member permanently secured at its outer ends to the inner elongated members of said sections remote from the rigid connecting member, whereby said sections may be moved in convergent and divergent relation.



1,401,435. FLOTATION SEPARATION OF MINERAL SUBSTANCES. THOMAS HENRY PALMER, Melbourne, Victoria, and HARRY VERNON SEALE and RALPH DOWLING NEWETT, Broken Hill, New South Wales, Australia. Filed Sept. 2, 1919. Serial No. 321,139. 7 Claims. (Cl. 83—85.)

1. A process for the differential or preferential separation of mixed sulfids, in which the ores containing the same are subjected to a flotation treatment in an aqueous medium containing elemental sulfur dissolved in a solvent and added thereto in a proportion not in excess of one half of 1% of sulfur to ore, thereby to procure separation of one of such sulfids; and in which the ore remainder is subsequently resubmitted to flotation for the separation of another sulfid therefrom after adding a frothing agent to said medium.

1,401,436. COMBINED HAND AND SELF-INKING STAMP. ARTHUR ALBERT PANNIER, Salt Lake City, Utah. Filed July 12, 1921. Serial No. 484,023. 19 Claims. (Cl. 101—334.)



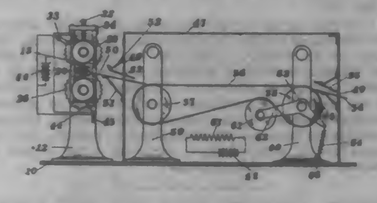
1. In a hand stamp, the combination of a main frame, a plunger slidably mounted relative thereto, a reversible die rotatably mounted on the plunger, and means for supporting a die in advance of the reversible die, said means providing for a substantially simultaneous impression of both dies with one impression surrounding the other.

1,401,437. DIPPING APPARATUS. John W. Palmer, San Francisco, Calif. Filed Dec. 9, 1919. Serial No. 343,480. 21 Claims. (Cl. 146—14.)



2. A continuously operating, automatic fruit dipping apparatus comprising a tank, a tray platform operatively mounted and arranged above said tank, means for moving the tray onto the platform and means for releasing said platform for downward movement.

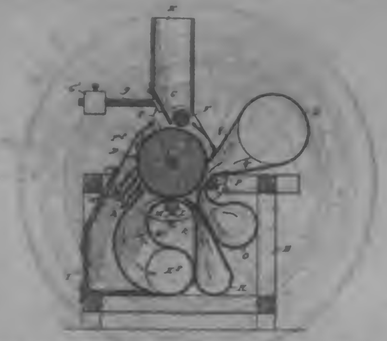
1,401,438. TOBACCO-LEAF CRUSHER. Samuel Pells, Omaha, Nebr., assignor of one-half to J. L. Galbreath, Superior, Nebr. Filed Aug. 2, 1920. Serial No. 400,654. 2 Claims. (Cl. 131—58.)



2. A device of the character described comprising leaf crushing means, a housing mounted adjacent said leaf crushing means, beating means in the housing, a conveyer also entirely within the housing, said housing having openings in its front and rear walls, the opening in the front wall being at a higher elevation and being disposed above the receiving end of the conveyer, the other opening being disposed below the delivery end of said conveyer, an inclined apron extending through the front opening in the housing having its higher end disposed to receive leaves from said crushing means and with its lower inner end arranged near the receiving end of the conveyer, an inclined lip above said apron having a greater inclination than the apron and extending through the front opening in the housing, a rear apron extending on an inclination through the lower portion of the rear opening in the housing and having its higher inner end disposed close to the delivery end of the conveyer, and a second lip supported within the housing and at a greater inclination than said last mentioned apron and having its higher inner end disposed above the inner end of said apron.

1,401,439. LINT-COTTON-TREATING MACHINE. Hugh Pettit, Memphis, Tenn. Filed Sept. 8, 1920. Serial No. 408,834. 5 Claims. (Cl. 13—9.)

1. In a cotton treating machine, the combination of a saw cylinder having the spaces filled to substantially the base of the teeth, means for feeding cotton to said cylinder, an air blast nozzle directed against said cylinder in a direction opposite the direction of rotation of the teeth for holding the cotton on the teeth and freeing it from dirt, etc., a second air blast nozzle directed against said cylinder in the direction of rotation of the teeth and at a higher velocity than that of the teeth for disengaging the cotton therefrom, and means for creating a



blast of air through said nozzles and for regulating its volume and intensity.

1,401,440. PUMPING MECHANISM FOR OIL-WELLS. Oscar M. Protosse and Russell C. Sutherland, Wynona, Okla. Filed May 7, 1921. Serial No. 467,750. 5 Claims. (Cl. 103—80.)



1. In an oil well, a working barrel having a standing valve in its length and perforated above the standing valve, a barrel exterior to the working barrel and spaced therefrom, the space between the working barrel and the exterior barrel being closed at its lower end, a head closing this space at the upper end and having ducts opening into the upper end of the working barrel, a sucker rod, a traveling valve mounted on the lower end of the sucker rod, and a blind valve mounted upon the sucker rod above the standing valve, the blind valve and traveling valve being located normally below and above the perforations respectively.

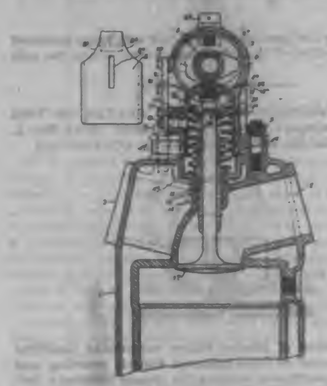
1,401,441. SASH WEIGHT. George H. Quaid, Los Angeles, Calif. Filed Feb. 4, 1920. Serial No. 356,284. 1 Claim. (Cl. 16—219.)

A sash weight comprising a body of concretitious material, a rod extending vertically through said body having a threaded lower end, attaching means secured to the upper end of said rod, said body having grooves in its lower face, a block on said rod below the body having ribs thereon corresponding to the grooves in said body, a nut on



said rod below said block, and a bolt receiving member on one side of said body.

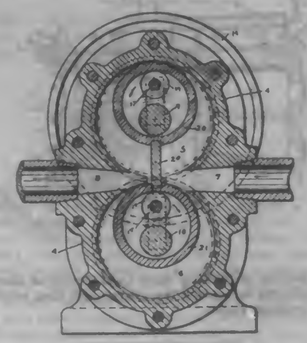
1,401,442. INTERNAL-COMBUSTION ENGINE. Lawrence E. Rausenberger, Springfield, Ohio, assignor to The Steel Products Engineering Company, Springfield, Ohio, a Corporation of Ohio. Filed Dec. 12, 1919. Serial No. 344,430. 2 Claims. (Cl. 123—90.)



1. In a valve mechanism the combination with a housing comprising a cylinder, an inverted U-shaped plunger operable therein, a hollow cam shaft mounted in said housing having a cam in direct operative relation with said plunger and an oil aperture in said shaft whereby oil delivered therethrough will be discharged upon the plunger, of means within the plunger comprising an adjusting screw and a plurality of shims coöperating therewith whereby the space between the plunger and the cam may be adjusted to a predetermined position.

1,401,443. PUMP. Joseph R. Richer and John O. Hesselden, Chicago, Ill., assignors to Star Tool and Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 5, 1920. Serial No. 349,370. 5 Claims. (Cl. 103—44.)

1. A pump comprising a casing provided with two adjoining chambers communicating with each other at their adjoining sides; crank shafts operating in said chambers, said crank shafts provided with loosely engageable radially yieldable cranks; tubular contact members having bores large enough to loosely embrace said cranks and shafts and being independently maintained in continuous contact with the peripheries of said chambers by said cranks; a movable blade connecting said contact members and passing through the communication between said chambers; and inlet and outlet means communicating with said chambers



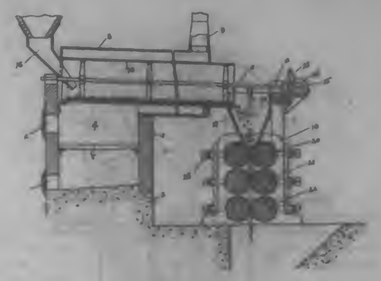
on opposite sides of their communication with each other, substantially as described.

1,401,444. EXTENSION-BOLT. Charles C. Roberts, Springdale, Conn. Filed Nov. 5, 1920. Serial No. 421,074. 3 Claims. (Cl. 90—59.)



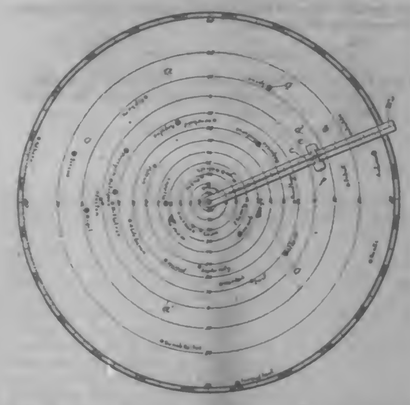
1. A bolt comprising a pair of sections, one of the sections including a shank and a head, the other section including a hollow cylindrical body, and a shank provided with standard threads of substantially the same diameter as the shank of the first section, the shank of the first section and the hollow body being provided respectively, with double male and female threads, and a nut carried by the threaded shank of the second mentioned section.

1,401,445. METHOD OF FORMING SAND FROM GRAVEL. JOSEPH H. ROBERTS, Pittsburgh, Pa. Filed July 21, 1921. Serial No. 486,477. 3 Claims. (Cl. 83—12.)



1. A method of forming sand from gravel as above defined consisting in heating the gravel, and then subjecting it to a crushing action.

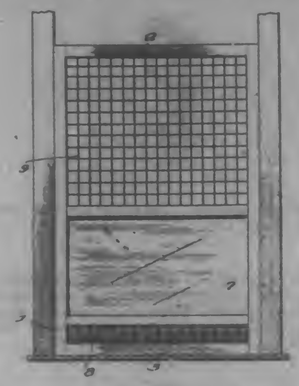
1,401,446. STAR FINDER AND IDENTIFIER. GILBERT T. RUDE, Washington, D. C. Filed Dec. 30, 1920. Serial No. 434,140. 3 Claims. (Cl. 35—3.)



2. A star finder and identifier comprising a diagram having located thereon the celestial navigation bodies in their true correlative positions and a coöperative templet plotted in conformity with a definite degree of latitude and having dimensions to include the navigation celestial bodies visible at any one moment at that latitude, the templet being scaled to graphically show the altitudes and azimuths of the celestial bodies encompassed by it when correlated to the diagram.

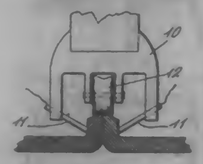
1,401,447. ELECTRIC SIDE-WALL HEATER. OLIVER P. SCOTT, Tacoma, Wash. Filed May 5, 1921. Serial No. 467,052. 4 Claims. (Cl. 219—34.)

1. A side wall heater of the class described including a frame comprising sides and connecting top and bottom portions, a lower solid panel connecting the lower portions of the sides and spaced from the bottom portion to provide an inlet and terminating short of the top of the frame to leave an outlet for the discharge of heated air, a heating element supported between the sides of the frame in rear of the solid panel in position to permit the air to contact



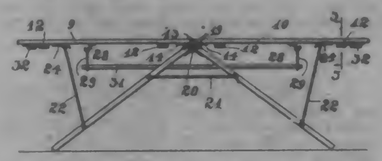
directly with the heating element, and a deflector mounted between the sides of the frame and located above the said panel.

1,401,448. METHOD OF JOINING PLATES OR THE LIKE. THOMAS J. SIERA, Portland, Oreg. Filed Feb. 5, 1921. Serial No. 442,751. 7 Claims. (Cl. 219—10.)



1. The method of joining plates, comprising upsetting the edges thereof to form marginal flanges, abutting said flanges, and electrically welding the flanges between a pair of electrodes, both of which are applied to the flanges on the same side of the plates.

1,401,449. OUTING-TABLE. WILLIAM A. SNYDER, Los Angeles, Calif. Filed May 3, 1921. Serial No. 466,508. 1 Claim. (Cl. 45—116.)



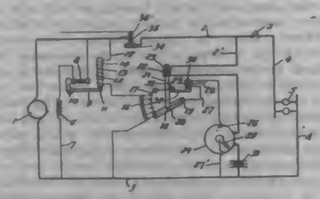
In a table of the class described, a top consisting of halves to abut endwise and each half having means to fold lengthwise, a trestle consisting of two main members having hinge connections near the upper ends to come under the joined middle of the top so that the lower ends of the members spread out downwardly toward the ends of the table, a rod on each of the upper hingedly connected ends of the two members of the trestle, hooks on the underside of the top near the abutting ends of the halves for removably engaging each top-half to a trestle-member, braces of different length on each end of the table pivotally connected to the lower ends of the trestle and projecting upwardly toward the top, for adjustably supporting the top ends, clamping members on the underside of the top to engage with upper ends of the braces, and connecting means between the oppositely spreading trestle-members for holding the trestle engaged in a firm form to support the top.

1,401,450. VEHICLE WHEEL AND TIRE. DAVID B. SPENCER and COBBY W. SPENCER, Danville, Ill. Filed Apr. 10, 1920. Serial No. 372,887. 3 Claims. (Cl. 152—9.)



2. In a wheel the combination with an annular rim body having a plurality of outwardly extending lugs formed thereon, rings secured to the opposite faces of the body and extending beyond the periphery thereof defining a channel therebetween, the lugs being arranged in the channel, of a tire including independent sections each having an arcuate cushion member and an arcuate retaining flange, the retaining flange being adapted to fit in said channel between a pair of said lugs, retaining elements extending through said rings and retaining flanges, and clamping rings carried by the first mentioned rings and arranged to engage the cushion members of the tire.

1,401,451. CAR-LIGHTING SYSTEM. LEONARD A. WATSON, Sound Beach, Conn., assignor to The Safety Car Heating and Lighting Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 27, 1920. Serial No. 426,693. 11 Claims. (Cl. 171—313.)



1. In a car lighting system, in combination, an axle driven generator, a storage battery adapted to be charged thereby, regulating means for the generator including a voltage coil, and means operated only when and while the battery is fully charged to set said voltage coil to maintain a succeeding lower level of impressed voltage dependent on the battery condition under the preceding impressed voltage.

1,401,452. CHEWING-GUM AND PROCESS OF MAKING SAME. HARRY M. WEBER, Bloomfield, N. J., assignor to Ellis-Foster Company, a Corporation of New Jersey. Filed June 4, 1919. Serial No. 301,788. 7 Claims. (Cl. 99—11.)

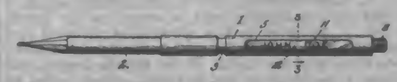
1. A chewing gum composition containing a rosin ester.

1,401,453. SKIRT-CLASP. ARTHUR WILKE, Brooklyn, N. Y. Filed June 30, 1921. Serial No. 481,453. 1 Claim. (Cl. 24—206.)



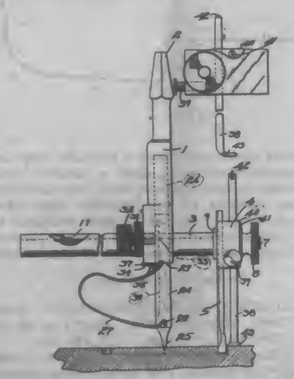
A device of the class described comprising a pair of members adapted to be locked together, one of said members consisting of a back portion having a tongue extending from the upper end thereof and lying substantially parallel to said back portion, a relatively oblong-shaped boss on the inner side of said tongue, the other of said members consisting of a plate having a series of inclined, mutually parallel, substantially oblong-shaped bosses thereon, said first-named boss being adapted to engage said plate between a pair of said second-named bosses.

1,401,454. PENCIL OR PEN ATTACHMENT. ALEXANDER E. ANDERSEN, Bristol, Va. Filed Apr. 19, 1921. Serial No. 462,501. 10 Claims. (Cl. 120—84.)



2. The herein-described device comprising a tubular casing having a sight opening, an inner sleeve arranged within the casing, a name card or slip secured to the outside of the sleeve and having the name thereon exposed at said opening, and transparent means for covering the name card or slip to protect the same where exposed at said opening.

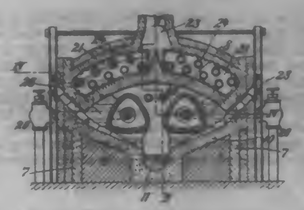
1,401,455. EXTENSION-BIT. PIERRE BARMAISON, San Francisco, Calif. Filed Nov. 9, 1920. Serial No. 422,852. 3 Claims. (Cl. 145—178.)



3. An extension bit, comprising a rotatable post, an adjustable transverse rod in said post, a tool holder on

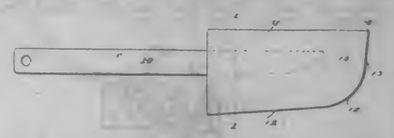
said rod, an extension to said post, an auxiliary shank, a connecting link, one end of which is pivoted on said shank and the other end pivoted on said extension, a side bar pivoted on said link, one end of said bar being slotted and connected to said shank by means of a screw through said slot, the other end being slotted and connected to said extension by means of a screw through said slot, the said screws being adapted to clamp said side bar firmly to said shank and said extension and thereby holding said link at any adjusted angle.

1,401,456. MELTING-FURNACE. GEORGE HILLARD BENJAMIN, New York, N. Y. Filed Apr. 9, 1920. Serial No. 372,633. 12 Claims. (Cl. 266—33.)



1. In a metallurgical furnace, the combination of a melting portion provided with a trough in the hearth thereof, a gathering portion situated in front of the melting portion and provided with a trough thereof, communicating with the trough of the melting portion, the bottom of the trough of the gathering portion located in the same horizontal plane occupied by the forward end of the trough of the melting portion.

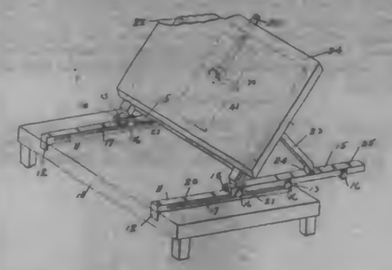
1,401,457. DISH-SCRAPER. FRANK BRUCKMANN, East St. Louis, Ill. Filed Jan. 22, 1921. Serial No. 439,162. 2 Claims. (Cl. 65—12.)



2. A cleaning device comprising a yieldable body having oppositely arranged scraping edges, a handle having a shank embedded in said yieldable body and having openings receiving portions of said yieldable body whereby the handle is firmly connected to said yieldable body, said handle being provided with a pair of oppositely arranged shoulders engaging the rear end of said body.

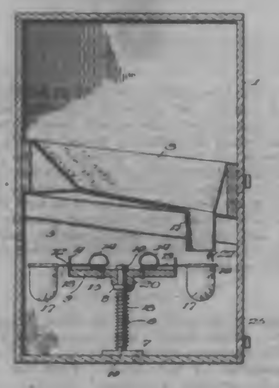
1,401,458. ADJUSTABLE DRAWING-BOARD. WILFRED L. BOON, North Attleboro, Mass. Filed July 26, 1920. Serial No. 398,919. 10 Claims. (Cl. 45—1d1.)

1. In an adjustable drawing board, a frame including a board supporting member, said member being adjustable to an inclined position on the frame, a board pivotally supported on said member to be rotated in the plane of its working surface in all positions of said member and also being shiftable on said frame, a means rendered



effective and ineffective for locking the board in any position to said member when said board is shifted.

1,401,459. HEN'S NEST. ENOCH S. BROWN, Warba, Minn., assignor of one-half to Paul Scharlau, Warba, Minn. Filed May 27, 1921. Serial No. 472,955. 3 Claims. (Cl. 119—48.)



1. A hen's nest comprising a housing divided into upper and lower compartments, a nest proper in said upper compartment having an egg discharge chute communicating with its bottom, a horizontal rotatable frame mounted in the lowest compartment, a plurality of spring arms secured in radial fashion to said frame and having portions thereof extended beyond the same, egg receiving and retaining pockets carried on said free end of the spring arms adapted to be successively alined with the discharge chute, and latch means engageable with said egg retaining pockets as the same are brought into successive alinement with the discharge chute for retaining the former in alinement with the latter, but automatically disengaging said pocket upon the deposit of an egg therein.

1,401,460. ELECTRIC FIXTURE. FRANK LOWELL BUTLER, Chicago, Ill. Filed Oct. 2, 1920. Serial No. 414,211. 5 Claims. (Cl. 240—85.)

1. In an electric fixture, an insulated stem consisting of a tubular insulating member threaded exteriorly at

each end and formed with an obliquely directed lateral opening through its wall at a predetermined distance from the upper end thereof, a coupling screwing on the upper end of said insulating member and adapted for connection with a fixed support, a casing arranged to cover the lower portion of said insulating member to a point adjacent the lateral opening, a nut screwing on the lower end of said tubular insulating member and formed to provide a seat for said casing, said nut being formed with a depending extension having a central bore,



said depending extension having a portion formed into a link adapted to support a lighting fixture element, electrical conducting wires arranged to enter the bore of the tubular insulating member through the central bore in the depending extension to said nut and to pass therefrom through the obliquely directed lateral opening, and means disposed in the bore of the insulating member above the obliquely directed opening for diverting the electrical conducting wires through said opening.

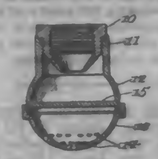
1,401,461. WEIGHT-CONTROLLED AIRSHIP. GEORGE ALBERT CHADDOCK, Liverpool, England. Filed July 21, 1920. Serial No. 397,912. 8 Claims. (Cl. 244—7.)



1. A weight controlled air ship comprising a main hull fitted with exterior protected air wells on each side open to the air above and below between end planes and outrigger plane spaces in which propellers operate, said wells being formed by projecting planes fitted at the bow and stern on each side and extending outward from the hull far enough to shield the propellers from passing air, outrigger planes being interposed between the propellers on each side, side screens attached to outer ends of bow and stern planes, a series of propellers operated one behind the other in the shielded controlled air spaces provided to improve the lift drive thrust of propellers when in horizontal flight.

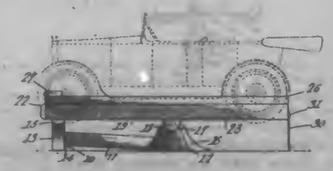
1,401,462. SHOWER-BATH NOZZLE. EVERETT CIRCLE, Coalton, Okla. Filed Feb. 25, 1921. Serial No. 447,768. 2 Claims. (Cl. 299—141.)

1. A spray device including a nozzle, a casing detachable connected with and inclosing the nozzle, said casing having spray perforations in line with the discharge end of the nozzle, and a transverse bar of a width equal to the width of the discharge end of the nozzle disposed in the casing intermediate the nozzle and the spray per-



forations to prevent discharge of the water directly from the nozzle to the perforations.

1,401,463. AUTO-LIFT. TOBIAS J. CORDES, San Francisco, Calif. Filed Apr. 7, 1920. Serial No. 372,017. 1 Claim. (Cl. 254—88.)



In an automobile jack, a base section, a longitudinal central section extending from the base section, a forward cross member having connection with the longitudinal member, a pivoted frame carrying a pivot member mounted in the base, said pivoted frame having track sections, an upper slidable section carrying rollers movable in the track sections, the upper movable section being of a length equal to the length of the pivoted frame, one end of the upper movable section adapted to normally engage the ground surface on which the device is supported to restrict movement of the frame, and rollers carried by the pivoted frame and adapted to contact with the upper movable section.

1,401,464. WELL-WASHING DEVICE. FRANK E. CAOTTO, Dallas, Tex., assignor to Reclamation Oil Producing Association. Filed Jan. 31, 1921. Serial No. 441,257. 6 Claims. (Cl. 166—20.)



1. In a well cleaning device, a housing having an opening, a nozzle within the housing arranged to swing

outwardly through the opening thereof, tubular connections for supplying fluid to the nozzle, a valve in one of the connections controlling the supply of fluid, and means actuated by the pressure of the fluid for causing the nozzle to be swung outward prior to the operation of the valve to supply fluid to the said nozzle.

1,401,465. THREAD-SEVERING MECHANISM FOR SEWING-MACHINES. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Nov. 27, 1917. Serial No. 204,143. 28 Claims. (Cl. 112—252.)



1. In a sewing-machine, in combination, a reciprocating needle, a looper, means for imparting advancing and retracting loop-seizing and shedding movements to said looper in the formation of enchained thread loops, a normally ineffective thread-severing implement mounted to partake of the advancing and retracting movements of the looper, and means for rendering said implement effective to sever the needle-thread.

1,401,466. NEEDLE-CLAMP. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed May 11, 1918. Serial No. 234,007. 7 Claims. (Cl. 112—226.)



1. A needle-clamp comprising a block provided with an open ended channel adapted to receive the shank of a needle, removable wall-members at the opposite ends of the channel, a thrust-member for clamping the needle-shank therein and coacting means on the block and wall-members for holding them against displacement relative to the block by the action of the thrust-member.

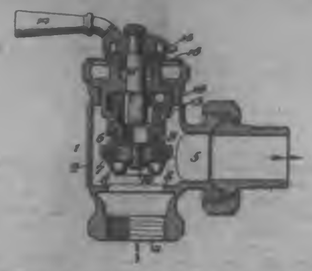
1,401,467. JAR-CLOSURE. WILLIAM W. DODGE, Washington, D. C. Filed Feb. 17, 1919. Serial No. 277,465. 4 Claims. (Cl. 215—51.)

1. A stopper or closure for bottles and like containers, comprising a disk compressed to form a seat or depression in its face and a lifter sealed to said depression wholly within the thickness of the material of the disk,



and made fast to the disk at a point between the extremities of the lifter.

1,401,468. VOLUME-REGULATING VALVE. JAMES LOGAN FITTS, Merchantville, N. J., assignor to Warren Webster & Company, Camden, N. J., a Corporation of New Jersey. Filed Sept. 10, 1917. Serial No. 100,425. 9 Claims. (Cl. 251—34.)



1. The herein described method of controlling the flow of a fluid, which comprises the proportioning of a valve plug with respect to the port area of the seat controlled thereby as herein described so as to obtain a minimum initial flow with maximum valve movement in the early stages of movement and a greater proportionate increase of volume of flow as the maximum opening of the valve is approached.

1,401,469. MORTISING-TOOL. ADOLPH H. HAWKINSON, Rockford, Ill., assignor to Greenlee Bros. & Co., Rockford, Ill., a Corporation of Illinois. Filed Sept. 10, 1921. Serial No. 499,629. 9 Claims. (Cl. 145—122.)



6. In a mortising tool, a double-spur bit the spiral body of which terminates in cutting edges reaching from an inner point substantially to the outer side and having a spur at the outer end of each cutting edge, each spur having a cutting face coincident with the adjoining cutting edges and defined at its inner and outer sides by cutting edges.

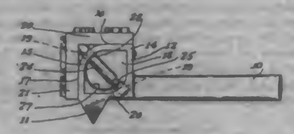
7. A mortising tool comprising in combination a hollow square cutting chisel and a boring bit, the blade of the chisel having cutting bevels at one end and having an elongated opening intersecting one of its side walls and bore adjacent to said cutting bevels, a second elongated opening through the diametrically opposite wall and located between the first mentioned opening and the shank end of the chisel, and the bit having opposite spurs, each shaped to provide a face defined by cutting edges for cutting out an annular body, the outer diameter of which is substantially coincident with the width of the blade.

1,401,470. STEPLADDER. HENRY J. HEIDER, Carroll, Iowa. Filed June 30, 1921. Serial No. 481,714. 1 Claim. (Cl. 228—58.)



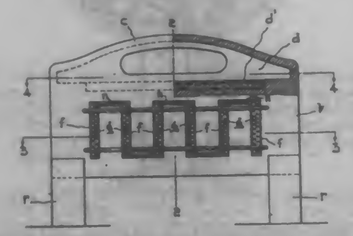
A bracket for supporting the step of a step ladder comprising an elongated base plate having upper and lower, inwardly directed horizontal flanges arranged along the upper and lower edges thereof and adapted to receive the adjacent end of the step, the lower flange comprising two spaced sections, said base having a lower opening located between the said sections and a pair of spaced openings located between the upper and lower flanges, and outwardly directed inclined flanges located at the front and rear edges of the base plate and adapted to receive the inner face of the inclined leg of the ladder between the same and to bear against the inclined front and rear edges thereof, nails traversing the leg of the ladder and the spaced openings intermediate the inner flanges and entering the end of the step, and a truss rod reaching from end to end of the step below said step and traversing the lower opening in the base plate between the spaced sections of the lower flange and the leg of the ladder, and means for tightening the truss rod.

1,401,471. REVERSIBLE TYPEWRITER-TYPE. ALFONSO HERING, Brooklyn, N. Y. Filed Mar. 3, 1921. Serial No. 449,318. 5 Claims. (Cl. 197—37.)



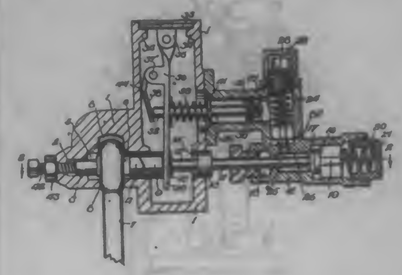
5. A type block formed of two sections disposed at right angles, each section carrying one or more type characters, a stem extending from the junction of said sections, a type-bar head on which said sections are revolubly mounted, and means in said head for resiliently retaining said stem therewithin.

1,401,472. ELECTRIC HEATER. JOHN EYRE C. HOLMES, Ottawa, Ontario, Canada. Filed Sept. 22, 1920. Serial No. 411,892. 11 Claims. (Cl. 219—10.)



1. An electric heater consisting of a heat radiating clay body having electric heating coils.

1,401,473. PNEUMATIC CONTROL FOR LUBRICATORS. CHARLES F. HOOPER, Chicago, Ill. Filed Jan. 2, 1920. Serial No. 348,848. 11 Claims. (Cl. 184—3.)



11. In a pneumatic control for lubricators, a valve casing having an inlet and an outlet, a valve disposed between said inlet and said outlet, a lever having a cam member fixed thereto, said cam member being mounted for rotation, a second cam member in engagement with said first named cam member and being provided with a non-circular shoulder integral therewith, said second named cam member being slidable and rotatable with respect to said first named cam member, means connecting said second named cam member with said valve for opening the latter when said lever is moved, a second lever having a non-circular opening adapted to normally receive the non-circular portion of said second named cam member, and pneumatic means for automatically moving said second named lever away from the non-circular portion of said second named cam member, whereby the latter is free to rotate, said means comprising a cylinder, a spring pressed valve for admitting air from said valve casing into said cylinder, a piston within said auxiliary cylinder, and means engaged by the piston for moving said second named lever.

1,401,474. HOLDER. INGWALD J. JACKSON, Duluth, Minn. Filed Apr. 16, 1921. Serial No. 461,858. 1 Claim. (Cl. 242—141.)

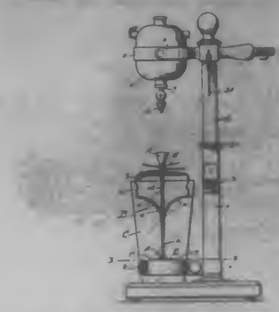


A holder of the class described comprising a base having an elevated central portion, an axial hole within said base, a spool or ball engaging member comprising two opposed resilient inwardly arched upwardly projecting members having a common integral horizontally disposed base portion and a spindle rigidly fixed centrally to said last mentioned base portions, said spindle being rotatably mounted within the first mentioned base portion.

1,401,475. MIXING DEVICE. WALTER E. JENSEN, San Diego, Calif., assignor to Jensen Manufacturing Co., Los Angeles, Calif., a Corporation of California. Filed Mar. 30, 1921. Serial No. 457,001. 7 Claims. (Cl. 259—134.)

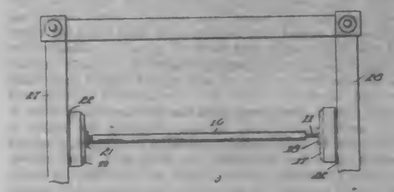
1. A mixing device adapted to be arranged in a container and comprising a series of radially disposed baffles

in relatively fixed rotation, said baffles being disposed in different inclined planes to divide the material being



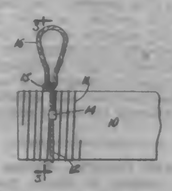
mixed into separated spiral currents, said device including the baffles being removable as a unit from the container.

1,401,476. GYMNASTIC APPARATUS. VIRGIL JORDAN and JOHN TODD HOLMES, Louisville, Ky. Filed Mar. 2, 1921. Serial No. 449,046. 3 Claims. (Cl. 46—69.)



1. In a gymnastic apparatus, a horizontal bar, one end of which terminates in a screw thread and the other in a substantially spherical head, an element readily removable from one end of the bar and having a threaded perforation for the reception of said screw thread, and another element readily removable from the other end of the bar and having a substantially spherical socket for the reception of said head, the assemblage of said bar and said elements being adapted to be frictionally and detachably secured between the walls of a substantially permanent structure.

1,401,477. RESISTANCE UNIT. LEONARD KEBLER, Bronxville, N. Y., assignor to Ward Leonard Electric Company, a Corporation of New York. Filed Feb. 15, 1919. Serial No. 277,123. 11 Claims. (Cl. 219—64.)



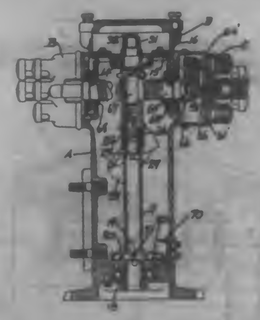
1. In combination, a cylindrical base of insulating material, a resistance conductor wrapped thereon, a stranded tap conductor around the said base connected with said resistance conductor and having a branch loop extended therefrom, means to fasten the parts of said tap conductor securely together at the point from which they extend each way around the base at the root of said branch, an eyelet fastened in the extremity of said loop, and a coat of enamel on the base covering said conductors but leaving said branch part extending therethrough.

1,401,478. ROTARY INTERNAL-COMBUSTION ENGINE. FRED KELLER, Jr., Pittsburgh, Pa. Filed Sept. 8, 1920. Serial No. 409,030. 6 Claims. (Cl. 123—11.)



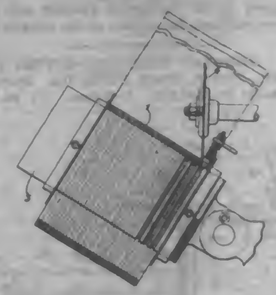
1. In a rotary explosive engine the combination of a shaft, a cylindrical body axially borne upon and integral with said shaft and having formed within itself a cylinder whose axis extends in a curve centering in the axis of shaft rotation, the weight of said cylindrical body being symmetrically disposed relatively to that shaft axis, a piston reciprocable in said cylinder, means interposed between piston and shaft whereby as the shaft turns the piston reciprocates and whereby driving stress upon the piston within the cylinder exerts a rotary strain upon the shaft, means for periodically and successively in the course of rotation introducing into said cylinder an explosive substance and for igniting such explosive substance when so introduced, substantially as described.

1,401,479. IGNITION SYSTEM. CHARLES F. KETTERING, Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company, A Corporation of Ohio. Filed Dec. 15, 1917. Serial No. 207,220. 17 Claims. (Cl. 123—117.)



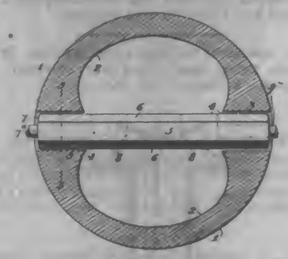
1. In an ignition system for internal-combustion engines, the combination with a timing device and an engine driven member for operating the same; of a distributing device including a movable element; a shaft carrying the movable element; gearing between the engine driven member and the shaft; and manually operable means and automatic means each for simultaneously adjusting the operation of the timing and distributing devices with respect to the engine, and each of the said means being capable of making adjustments independently of the other, but effecting a joint control of the timing and distributing devices.

1,401,480. METHOD OF MANUFACTURING ENDLESS V-SHAPED OR ANGULAR BELTS. CHARLES E. KING, St. Louis, Mo., assignor to Capen Belting and Rubber Company, St. Louis, Mo., a Corporation of Missouri. Filed Mar. 10, 1920. Serial No. 364,767. 5 Claims. (Cl. 154—17.)



4. The method of manufacturing endless belts which consists in forming a cylindrical blank of sufficient dimensions to provide a plurality of belts, forming grooves along each line of severance, and cutting the blank along said grooves from the inner and outer surfaces of the blank.

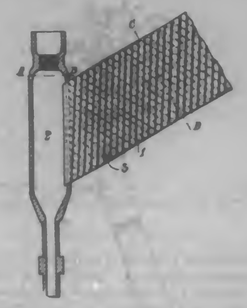
1,401,481. KILN. JAMES HARRY LEMMON, Milltown, Ind., assignor to Louisville Cement Company, Louisville, Ky., a Corporation of Kentucky. Filed Mar. 13, 1919. Serial No. 282,503. 7 Claims. (Cl. 222—3.)



5. In a kiln, the combination of an outer wall, a suitably supported interior bridge wall, said bridge wall extending substantially from side to side of the outer wall, but spaced therefrom to allow for expansion and gas supply flues communicating with the kiln chambers through said bridge wall.

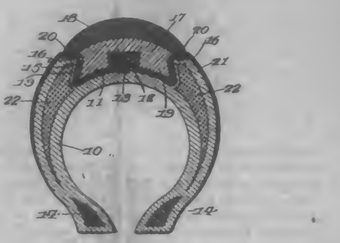
1,401,482. COOLING ELEMENT. FREDRIK LJUNGSTRÖM, Brevik, Lidingön, Sweden, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden, a Corporation. Filed Jan. 28, 1920. Serial No. 354,759. 2 Claims. (Cl. 257—262.)

1. A plurality of cooling elements arranged side by side and each consisting of a flattened pipe, and flat laterally projecting solid ribs provided on the outside of the pipe, extending obliquely from one edge to the



other edge of the pipe and the ribs of the opposite walls of two adjacent cooling elements being arranged so that they cross each other.

1,401,483. PNEUMATIC TIRE. GEORGE MICHAELSEN and JULIUS J. ROTH, Sr., New York, N. Y. Filed May 17, 1921. Serial No. 470,296. 1 Claim. (Cl. 156—16.)



A pneumatic tire comprising a shoe having a circumferentially extending central channel in the periphery thereof with the side walls undercut to form inwardly directed oblique marginal ribs, the end faces of the ribs being longitudinally grooved, a central circumferentially extending dove-tail rib formed on the center of the bottom wall of the said channel and having a reinforcing ring embedded therein, the side portions of the shoe having reinforcing rings which extend into the first-named ribs, and a removable tread member having a portion thereof fitting into the said channel with circumferential side ribs seating within the undercut sides of the channel and in the grooves of the first ribs, respectively, said tread member having a central longitudinal dove-tail groove receiving the central rib of the channel, and friction coverings on the contacting parts of the shoe and tread member.

1,401,484. WRENCH. JOHN R. MITCHELL, Hilltop, W. Va., assignor of one-half to Wiley B. Johnson, Clsmont, Va. Filed Feb. 2, 1921. Serial No. 441,889. 2 Claims. (Cl. 81—98.)

1. A wrench comprising a shank having arms provided with seats; a fixed jaw located between the arms; means for holding the fixed jaw releasably between the arms;

a movable jaw located between the arms and cooperating with the fixed jaw, the movable jaw having a plurality



of openings; and a pivot element shiftable from opening to opening and from seat to seat.

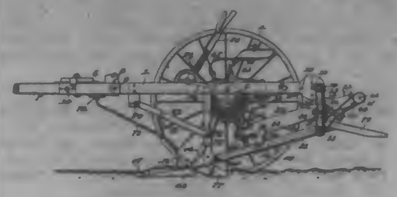
1,401,485. SPINDLE. JOHN B. NAINTRAU, North Smithfield, R. I. Filed Jan. 17, 1920. Serial No. 352,134. 3 Claims. (Cl. 118—66.)



1. The combination with a spindle blade, of a bolster receiving the spindle blade and in which the spindle blade is longitudinally and rotatably movable, a sleeve receiving the bolster and a cap for the lower end of the sleeve adjustably connected therewith and having a bearing for the lower end of the spindle blade, the cap being adjustable with respect to the sleeve longitudinally of it and the spindle blade being adjustable with the cap.

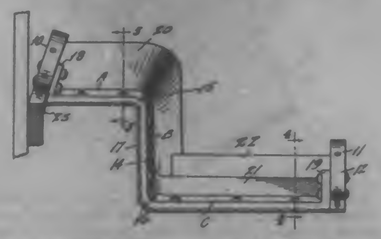
1,401,486. MACHINE FOR DIGGING PEANUTS OUT OF THE GROUND. MORDECAI M. NIXON, Edenton, N. C. Filed June 24, 1920. Serial No. 391,325. 5 Claims. (Cl. 130—32.)

1. In a machine of the character described, a conveyer having an endless belt carrying projections, a series of bars forming a riddle, the riddle being secured to the conveyer and so spaced therefrom that the projections pass close to the adjacent surfaces of the series of bars, means for vibrating the combined conveyer and riddle, and means for operating the conveyer, whereby the ma-



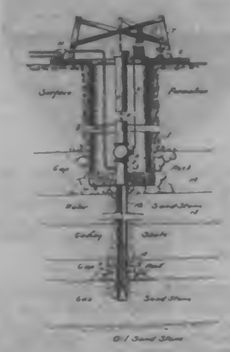
terial supplied to the machine is vibrated and simultaneously conveyed along the surface of the vibrating riddle.

1,401,487. COMBINED CURB AND GUTTER FINISHING TOOL. GUY E. NOBLE, Dallas, Tex. Filed July 1, 1920. Serial No. 393,300. 3 Claims. (Cl. 94—44.)



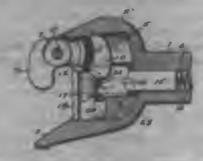
1. In a combined curb and gutter finishing tool, an inner member inclined outwardly from the curb and having a hand hole near its top, said inclination providing a suitable space for the hand in said hand-hole, said member extending longitudinally of the direction of movement of said tool, an outer member having a hand hole near its top, said outer member extending longitudinally of the direction of travel of said tool, and a transverse sheet connecting the inner and outer members and embodying curb and gutter forming portions.

1,401,488. METHOD OF DRILLING WELLS. WILLIAM E. NOLAN, Tulsa, Okla. Filed Mar. 31, 1920. Serial No. 370,226. 4 Claims. (Cl. 255—1.)



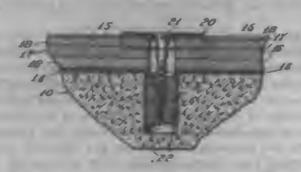
1. The method of drilling deep oil wells, which consists in producing with a drilling tool, a bore in most part of substantially constant diameter down to the formation in which oil is sought, and at the same time producing air pressure in the bore as the sole means for holding back the collapsible walls of the bore where such occur until the drilling of the collapsible portions is completed, and then lining the bore with pressure-resistant material.

1,401,489. AUTOMATIC COUPLING. WILLIAM W. PHILLIPS, Richmond, Va. Filed Mar. 8, 1921. Serial No. 449,408. 2 Claims. (Cl. 213—65.)



1. A coupling member comprising a draw bar having a head formed thereon, said draw bar and said head being provided with a longitudinal bore, said head being provided with recesses arranged on each side of said bore, a knuckle pivotally mounted in one of said recesses, an actuating member comprising a body portion arranged in said bore, a plate formed on the forward end of said body portion, said knuckle being connected to said plate, a locking member mounted in said head and adapted to engage the side of said knuckle when in closed position, said locking member being normally actuated by gravity, an offset portion formed on one side of said locking member, and a gravity operated latch to maintain said locking member in raised position, said offset portion serving as a guide for said latch to maintain it in position to engage said locking member when the locking member is raised.

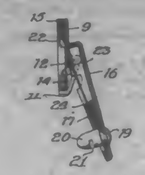
1,401,490. CARPET-FASTENING DEVICE. GEORGE W. RATHJENS, Norfolk, Nebr. Filed Feb. 11, 1921. Serial No. 444,218. 9 Claims. (Cl. 16—70.)



6. A device of the class described comprising a metallic channel member, a nailing strip secured in said channel member, a flanged cap fitted on the outer faces of the sides of said channel member, and means for securing said cap to a floor for holding the channel member in position.

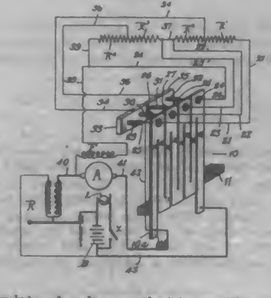
1,401,491. HASP. CHARLES D. RENYE, Grand Rapids, Mich., assignor to Wilcox Pressed Steel Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 20, 1920. Serial No. 431,976. 8 Claims. (Cl. 70—115.)

3. A hasp formed of a plate portion and a tongue portion, said plate portion being formed of a single piece of metal containing a recess in an edge thereof, with the side walls of the recess deflected forwardly, with a lug extending outwardly into said recess, said plate having a slotted portion beyond said lug, said tongue having a lug-equipped portion at which it extends through said slotted portion, the portions of the walls of said slotted portion which extend crosswise of the length of the tongue opposing opposite surfaces of said lug-equipped portion and forming an interlock between said tongue and plate adapting said tongue to be swung on said plate, said tongue having laterally-extending projections which extend into overlapping relation with said plate at the rear side thereof, and a



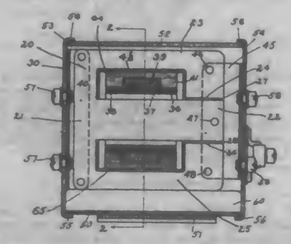
spring operatively engaging at one end with said tongue and at its opposite end engaging said lug for the purpose set forth.

1,401,492. REGULATING DEVICE FOR DYNAMO-ELECTRIC MACHINES. JAMES B. REPLOGLE, Detroit, Mich., assignor to Remy Electric Company, Anderson, Ind., a Corporation of Indiana. Filed Aug. 18, 1917. Serial No. 186,858. 8 Claims. (Cl. 171—229.)



1. A regulator for dynamo-electric machines including a plurality of regulating circuits adapted to be placed in regulating relation to the machine, a plurality of independently operable switches for rendering said circuits respectively operative and thermostatic means responsive to the output of the machine and including a series of integrally connected U-shaped thermostat blades for independently actuating said devices.

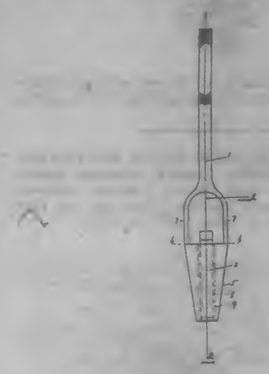
1,401,493. INDUCTION-COIL. JAMES B. REPLOGLE, Detroit, Mich., assignor to The Remy Electric Company, a Corporation of Indiana. Filed June 13, 1919. Serial No. 303,829. 6 Claims. (Cl. 175—360.)



1. In an induction coil, the combination with primary and secondary windings; of a core including a base por-

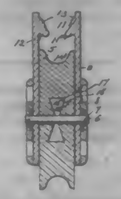
tion and integral branch portions providing two magnetic circuits threading said windings and each magnetic circuit being provided with an air gap having a substantially greater area than the sectional area of the base portion.

1,401,494. CABLE-SHACKLE. HOMER M. RHOADS and JOHN T. DAVIS, Tulsa, Okla. Filed Sept. 3, 1920. Serial No. 408,060. 1 Claim. (Cl. 24—136.)



The combination of a socket member formed with a stem and a hole having tapered opposite sides, and a split wedge comprising two members having parallel opposite cable-gripping faces and outside tapered sides and fitting in said hole, the tapered sides of the wedge engaging the tapered sides, respectively of said hole; and the intermediate opposite sides of said hole between said tapered sides being recessed longitudinally of said cable-gripping faces.

1,401,495. TROLLEY-WHEEL. SAMUEL S. RIGBY, New Castle, Pa. Filed Oct. 24, 1921. Serial No. 509,960. 4 Claims. (Cl. 191—74.)



1. A device of the character described comprising a trolley wheel and harp, the sides of the harp being extended above the trolley wheel and being provided upon their inner faces with integral downwardly and inwardly directed hook-like portions having undercut concave lower sides which lie wholly above the trolley wheel.

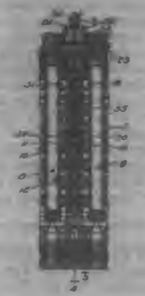
1,401,496. GANG-PLOW. EDWARD J. RIMPLE and JOHN W. MORGAN, San Jose, Calif. Filed July 28, 1920. Serial No. 399,530. 16 Claims. (Cl. 97—40.)

1. An agricultural implement comprising a frame, wheels supporting the frame, a plurality of ground working implement members mounted for longitudinal adjustment forwardly and rearwardly upon said frame, stems on said implements, means for rotatably securing said stems



to said members and means for inclining said members relative to the frame whereby inclination of the implements may be varied.

1,401,497. ART OF HEATING WALLS. ARTHUR ROBERTS, Evanston, Ill., assignor to American Coke & Chemical Company, Chicago, Ill., a Corporation of Maine. Filed Nov. 9, 1917, Serial No. 201,112. Renewed July 28, 1920. Serial No. 400,626. 12 Claims. (Cl. 158—1.)



1. A heating wall having on its interior a meshwork of interconnected passages extending in zigzag fashion from its upper to its lower portion, whereby gases traveling downwardly therethrough may freely equalize within the wall, a series of burners for directing fuel gas into the upper portions of said passages, a series of air connections for delivering a full quantity of air into said passages adjacent to the burners, there being gas passages extending downwardly and communicating with orifices for the delivery of additional quantities of gas to the interior of the wall during the travel of the heating mixture therethrough to thereby reinforce the combustion by the consumption of the additional fuel gas in the presence of the excess of air traveling through the wall, the heating mixture being free to equalize position on the interior of the wall and thereby insure intimate mixture of gas so introduced with such excess of air, substantially as described.

1,401,498. FOOD COMPOUND AND PROCESS OF MAKING THE SAME. JOHN H. SASSEEN, Houston, Tex., assignor to United Food Products Company, Houston, Tex., an Association. Filed Sept. 28, 1920. Serial No. 413,358. Renewed Nov. 18, 1921. Serial No. 516,247. 6 Claims. (Cl. 99—11.)

5. A food ingredient consisting of an emulsion of cooked rice, water, skimmed milk and fat in which rice is present in approximately the proportion of 12%.

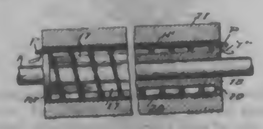
6. The process of making a food compound, consisting of thoroughly cooking a quantity of rice in water, then adding milk and a small quantity of fat and beating and emulsifying the resulting mixture.

1,401,499. CARBON-REMOVING DEVICE. PETER H. RATHEN, Tacoma, Wash. Filed Nov. 29, 1920. Serial No. 426,896. 4 Claims. (Cl. 83—64.)



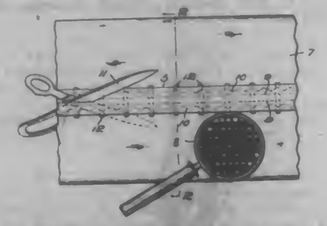
1. A device of the character described comprising a body block having means thereon for connection with an actuating tool, a plurality of blades slidably mounted in the block and having scraping surfaces at their outside and lower edges which are adapted, when the device is in use, to respectively scrape the inside wall and base of a cylinder, said blades being mounted within the block in such manner that pressure against the block which would tend to force it toward the base of the cylinder, will effect radially expanding pressure against the blades.

1,401,500. ELECTRIC HEATER. OLIVER PERRY SCOTT, Tacoma, Wash. Filed Oct. 17, 1919, Serial No. 331,336. Renewed Aug. 4, 1921. Serial No. 489,901. 1 Claim. (Cl. 219—63.)



An electric heater comprising a tube formed of insulating material, longitudinally extending ribs formed exteriorly of said tube, circular heads formed on the opposite ends of said tube and having perforations formed therein, a heating unit arranged about said tube and engaging said ribs, a metallic casing surrounding said tube and supported upon said heads in a manner to dispose a major portion of the casing in spaced relation to the tube, and heat insulating material surrounding said casing.

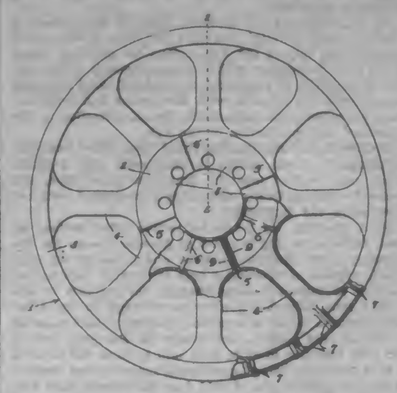
1,401,501. PREPARATION OF KNITTED FABRICS FOR USE. CHARLES E. SHAW, East Weymouth, Mass. Filed May 3, 1919. Serial No. 294,471. 9 Claims. (Cl. 2—187.)



4. A method of preparing tubular knitted fabrics for handling comprising reinforcing a longitudinal zone thereof by means positioning the threads in the zone against relative movement and longitudinally slitting the fabric along said zone.

1,401,502. ONE-PIECE CAST-METAL WHEEL AND METHOD OF MAKING THE SAME. BURNS LYMAN SMITH, Syracuse, N. Y. Filed June 8, 1917. Serial No. 173,538. 9 Claims. (Cl. 301—65.)

1. A wheel having spokes and rim and hub portions rigid with the spokes, one of said portions being cast in one piece and the other divided at intervals along lines extending toward its center, the lines of division extending entirely through said portion whereby said portion is divided into sections separated at all points from each other, substantially as and for the purpose specified.

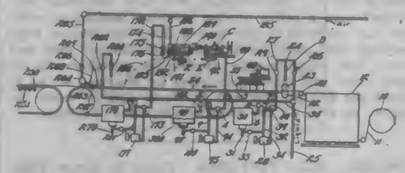


1,401,503. UNIT NON-SKID DEVICE. WILLIAM B. SMITH, Niagara Falls, Ontario, Canada, assignor to American Chain Company, Inc., Bridgeport, Conn., a Corporation of New York. Filed July 22, 1918. Serial No. 246,200. 2 Claims. (Cl. 24—116.)



1. A fastening device for anti-skid devices comprising a bar adapted to be pivotally connected at a point intermediate the ends thereof to a chain and the ends of said bar being recurved and the side faces thereof being grooved to receive the side strands of a connected link.

1,401,504. COLORING-MACHINE. RUDOLF SYKORA, Boston, Mass. Filed Feb. 11, 1920. Serial No. 357,778. 44 Claims. (Cl. 91—9.)



1. An apparatus for applying liquid coloring matter to a web of sheet material, having means for applying liquid to the surface of the web, and having a series of brushes which move in sequence transversely over the surface of the web from one side of the web to the other and back,

and means for moving each brush in such manner that it moves entirely off the web at each side before it begins its return movement.

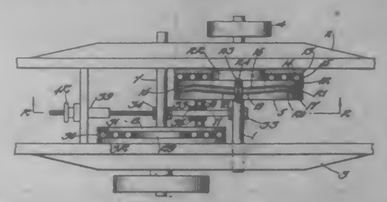
14. An apparatus for applying liquid to the surface of a web of sheet material, having a traveling carrier which supports and carries the web, means for applying liquid to the web, mechanism which clamps the web to the carrier on which it is supported and carried, said clamping mechanism being movable with the carrier and being laterally extensible, the extensibility being controlled by the expansion and contraction of the web.

25. Means for distributing liquid upon sheet material comprising a drum having a diaphragm top, a liquid supply pipe leading into the drum, an outlet pipe, and means for automatically delivering a continued series of blows upon the diaphragm.

34. A machine for producing water color surface on sheet material having a series of funnels, means for discharging liquid into the funnels, and a mount for each of said funnels comprising a pair of parallel rods having a series of curved recesses therein, the recesses in one of said rods coöperating with the recesses in the other rod to form a series of spherical pockets, a ball mounted in each of said pockets, and means for clamping each of said rods together so as to hold said balls in the pockets, each of said balls being formed with a perforation through which the stem of one of said funnels extends, said funnels being adjustable to varying angles by loosening the bolts, turning the balls and again setting up the bolts.

44. A machine for producing water color surface on sheet material, having means for depositing liquid upon the surface of the sheet, an air blast, and a deflector by which the air blast is deflected to spread the depositing liquid on the sheet.

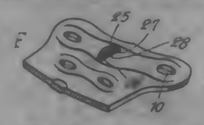
1,401,505. FRICTION DRIVE MECHANISM. RUDOLF SYKORA, Boston, Mass. Filed Aug. 12, 1920. Serial No. 403,045. 20 Claims. (Cl. 74—26.)



1. A variable driving mechanism consisting of a driving shaft having a friction disk mounted thereon, a driven member having a friction disk adjacent said first friction disk, a friction pulley which is adapted to engage with both of said friction disks, a disk loose on said driving shaft on the opposite side of said driving disk from said driven disk, said driving disk being formed with a series of cam surfaces, said loose disk being also formed with a series of cam surfaces coöperating with the cam surfaces on the driving disk, anti-friction balls between said cam faced disks, said driving disk and loose disk being capable of rotation independently of each other and means controlled by the load so as to cause the driving disk and the loose disk to rotate together as soon as the pressure surpasses the load.

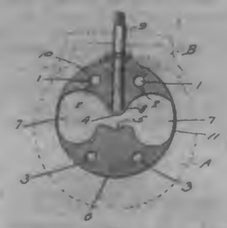
1,401,506. BELT-FASTENER. CLARA S. EATON VOSS, New York, N. Y., assignor to Crescent Belt Fastener Company, New York, N. Y., a Corporation of New Jersey. Filed July 2, 1919. Serial No. 308,097. 5 Claims. (Cl. 24—31.)

1. As an article of manufacture, a metallic belt fastener, a guide ing integral therewith extending along a medial line thereof between points within the contour of said fastener, said lug having its ends formed integral



with said fastener, and its intermediate portion separate therefrom.

1,401,507. NON-PUNCTURABLE AND NON-COLLAPSIBLE PNEUMATIC INSIDE TIRE. ODAVILLE YATES, Portland, Oreg. Filed Mar. 11, 1921. Serial No. 451,522. 3 Claims. (Cl. 152—5.)



2. In a tire of the class described, the combination of an inside tire having oppositely positioned heavy reinforcements, one of said reinforcements being disposed adjacent the tread portion of the inside tire, the tire having a substantially S-shaped air space intervening between said reinforcements, the median longitudinal portions of said reinfrocements being normally spaced only a short distance apart and shaped to seat one on the other, the reinforcement on the inner side of the tire having annular passages encircling the reinfrocement, said passages being in communication at spaced intervals with the central main air spaces, whereby said inner air passages are inflated with the inflation of the main air space.

1,401,508. POWDER-DISTRIBUTING BRUSH. PIETRO D'ALESSANDRO, Syracuse, N. Y., assignor, by direct and mesne assignments, to Pietro D'Alessandro, trustee. Filed July 23, 1920. Serial No. 398,509. 5 Claims. (Cl. 15—138.)



1. A powder brush comprising a hollow body, and a brush proper having a head at one end of the hollow body, the head and body having relative turning movement, a delivery device arranged in the hollow body above the

head and including a partition having perforations and cut off members movable on the upper and lower surfaces of the partition and arranged at an angle to each other whereby the lower cut-off member covers the lower end of one perforation when the upper member is out of alinement with said perforation, and covers the upper end of another perforation, means connecting the cut-off members whereby the motion of one is transmitted to the other, and connections between the head and the lower member whereby the cut-off members are operated during relative turning movement of the head and the body, substantially as and for the purpose described.

1,401,509. FENCEPOST ATTACHMENT. PERCY TRIPP BAILEY, Middletown, R. I. Filed Oct. 8, 1919. Serial No. 329,316. 4 Claims. (Cl. 256—11.)

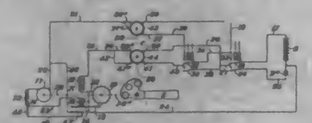


1. A fence post attachment comprising a pair of arms, one arm being longer than the other, said arms having interlocking portions and curved sections, said curved sections being adapted to fit against a fence post, a bolt adapted to extend through said curved section and said fence post for clamping said arms to said post, said arms having bent portions for clamping a bar horizontally positioned on said post and holding the same in position and means arranged on the longer of said arms for receiving fencing material.

1,401,510. ELECTRIC GLOW-LAMP. HEINRICH BAUMBACH, Charlottenburg, near Berlin, Germany, assignor, by mesne assignments, to Patent-Treuhand-Gesellschaft fuer Electrische Gluhlampen, M. B. H., Berlin, Germany, a Corporation of Germany. Filed Nov. 13, 1917. Serial No. 201,880. 4 Claims. (Cl. 176—16.)

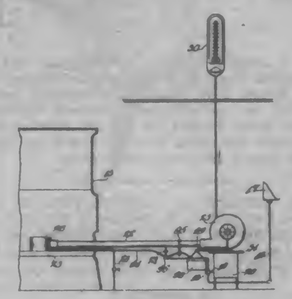
1. An electric carbon filament glow lamp having its filament surrounded by a rare gas substantially free of nitrogen.

1,401,511. RAILWAY SIGNALING MECHANISM. CHARLES R. BEALL, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Sept. 2, 1921. Serial No. 497,827. 7 Claims. (Cl. 246—223.)



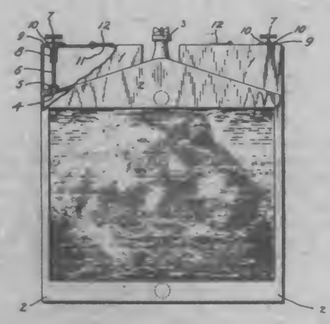
1. Railway signaling mechanism comprising a semaphore, a motor for operating said semaphore, a holding magnet having a motor coil and a main coil, two sources of current of different voltages, and means including circuit controllers operated in accordance with the movements of said semaphore for simultaneously establishing a circuit including the high-voltage source and said motor and said motor coil, and a circuit including the low-voltage source and said main holding coil, and for subsequently interrupting the first of said circuits.

1,401,512. HEATING SYSTEM. HARRY H. HERRYMANN, Cicero, Ill. Filed Jan. 14, 1921. Serial No. 437,284. 4 Claims. (Cl. 158—36.)



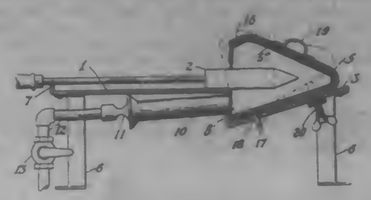
1. The combination with a liquid-fuel burner and a fuel-control valve; of a thermostat, motive means for the valve actuated by the contact action in the thermostat, a fuel drain for the burner for discharge of fuel upon failure of ignition, a receptacle into which the drain discharges, and means actuated by the weighting of the receptacle to put said motive means into operation independently of contact action of the theromstat.

1,401,513. WATER-RESERVOIR FOR AUTOMOBILE-RADIATORS. FRANK BILLINGTON, Portland, Oreg. Filed Jan. 5, 1920. Serial No. 349,663. 3 Claims. (Cl. 257—125.)



1. In a water reservoir for automobile radiators, the combination of a receptacle attached to the top of a radiator and having an opening leading from the receptacle to the radiator with a valve for closing said opening, said valve being accessible from the outside of the receptacle, substantially as described.

1,401,514. SOLDERING-FURNACE. JAMES BLACK, Buffalo, N. Y. Filed Mar. 12, 1919. Serial No. 282,244. 5 Claims. (Cl. 126—247.)



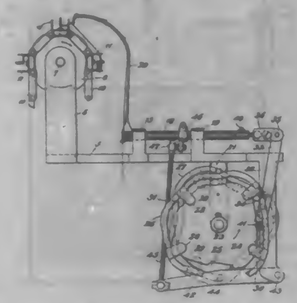
1. In a soldering furnace, a flame-hood open at its front end and closed at its rear end and having inclined top and bottom walls converging rearwardly, and front portion of its top wall being inclined forwardly to deflect the flame downwardly and the front portions of its side walls converging toward its open end to direct the flame toward the center of the hood.

1,401,515. METHOD OF WINDING SKEINS. MAX O. CLAUSS, New York, N. Y., assignor to The Clark Thread Company, Newark, N. J., a Corporation of New Jersey. Filed Aug. 1, 1919. Serial No. 314,647. 11 Claims. (Cl. 242—53.)



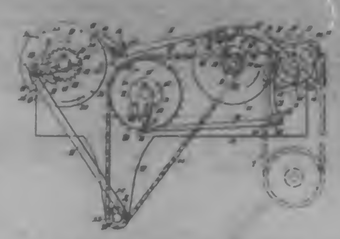
1. A method of winding skeins which consists in winding a thread about a plurality of supports to form a main or primary loop about all the supports and a plurality of intermediate or subsidiary loops about some of the supports.

1,401,516. SKEIN-WINDING MECHANISM. MAX OTTO CLAUSS, New York, N. Y., assignor to The Clark Thread Company, Newark, N. J., a Corporation of New Jersey. Filed Sept. 18, 1919. Serial No. 324,530. 13 Claims. (Cl. 242—53.)



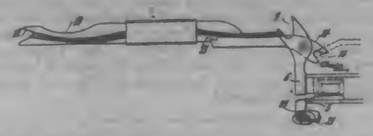
3. In a skein winding mechanism, a thread holder having a plurality of thread supports, a thread carrier, means for supporting the thread carrier, means for imparting movement to the carrier to cause it to wind a series of primary loops about all the thread supports and a plurality of series of subsidiary loops about some of the thread supports.

1,401,517. SKEINING-MACHINE. MAX OTTO CLAUSS, New York, N. Y., assignor to The Clark Thread Company, Newark, N. J., a Corporation of New Jersey. Filed Dec. 23, 1919. Serial No. 346,836. 20 Claims. (Cl. 198—123.)



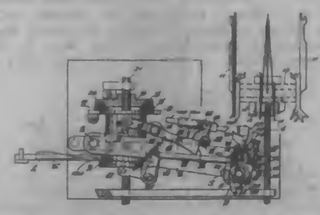
1. In a skeining machine, in combination with the operating shaft for the skein winding mechanism, an endless carrier, a plurality of spaced skein holders mounted on said carrier, a shaft for the carrier, a gear element fixed on said carrier shaft, a revoluble actuating member for said gear element normally disposed out of engagement with said gear element, means for driving said actuating member from the operating shaft, and means for automatically moving said member in each revolution thereof to cause the same to coact with the gear element and thereby impart a step by step movement to the carrier to successively position the holders to receive the thread winding.

1,401,518. SKEIN-HOLDER. MAX OTTO CLAUSS, New York, N. Y., assignor to The Clark Thread Company, Newark, N. J., a Corporation of New Jersey. Original application filed Aug. 1, 1919, Serial No. 314,647. Divided and this application filed Dec. 23, 1919. Serial No. 346,837. 14 Claims. (Cl. 242—127.)



1. A thread skein holder comprising a plurality of spaced thread engaging parts and a loop supporting part pivotally connected with the thread engaging parts.

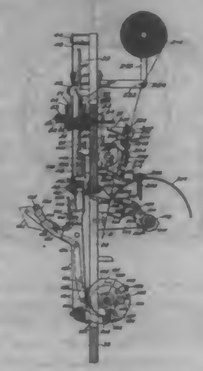
1,401,519. SKEIN-BINDING MECHANISM. MAX OTTO CLAUSS, New York, N. Y., assignor to The Clark Thread Company, Newark, N. J., a Corporation of New Jersey. Filed May 14, 1920. Serial No. 381,283. 23 Claims. (Cl. 28—9.)



1. In combination with means for successively forming a series of skeins from a continuous thread, mechanism

for applying a binder to the skein, means for effecting a relative bodily movement between the skein and binding mechanism, means for actuating the binding mechanism at the end of such relative movement in one direction to secure the binder to the skein, and means automatically operable upon such relative movement in the opposite direction to sever the thread strand extending between the adjacent skeins.

1,401,520. ARTICLE COLLECTING AND BUNDLING MECHANISM. MAX OTTO CLAUSS, New York, N. Y., assignor to The Clark Thread Company, Newark, N. J., a Corporation of New Jersey. Filed June 10, 1920. Serial No. 387,068. 35 Claims. (Cl. 28—9.)



1. A skein bundling mechanism having in combination, means for feeding the skeins one at a time to the bundling mechanism, a pair of gripping jaws adapted to grip one end of a skein, means for actuating the jaws to place the skeins in position to be arranged in a bundle, means for holding the skeins, means for superposing the skeins one upon the other in a bundle, and means for applying a binder to the bundle of skeins.

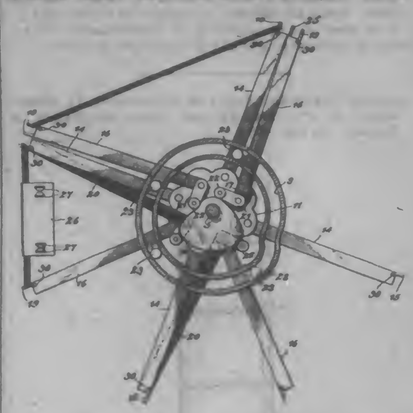
1,401,521. SKEIN. MAX OTTO CLAUSS, New York, N. Y., assignor to The Clark Thread Company, Newark, N. J., a Corporation of New Jersey. Filed July 10, 1920. Serial No. 395,309. 6 Claims. (Cl. 28—9.)



1. A skein composed of a continuous length of thread formed into a series of main or primary loops and a plurality of series of intermediate or subsidiary loops of substantially the same length as the main or primary loops formed within the circuit of the main or primary loops.

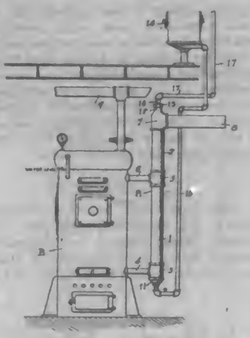
1,401,522. SKEIN SUPPORTING AND FOLDING MEANS. MAX OTTO CLAUSS, New York, N. Y., assignor to The Clark Thread Company, Newark, N. J., a Corporation of New Jersey. Filed July 29, 1920. Serial No. 399,853. 12 Claims. (Cl. 28—9.)

1. Skein supporting and folding means comprising a frame to receive the skein windings consisting of relatively movable elements, means for moving one element toward the other element and means actuated as the first element is moved toward the second element to engage the end



of the skein supported upon the first element and carry it toward the second element to thereby form a plurality of convolutions in the skein.

1,401,523. HEAT-EXCHANGE SYSTEM. WILLIAM COATES, Newark, N. J. Filed Apr. 29, 1921. Serial No. 465,388. 4 Claims. (Cl. 237—19.)



1. The combination with a water tank and a steam heating system including a boiler and a stem pipe, of a stand-pipe arranged exteriorly of said boiler and connected to the water chamber of said boiler at points adjacent the bottom thereof and immediately below the water level therein, said stand-pipe being also connected to said steam pipe above the said water level, and a conduit connected to said water tank and having a portion thereof passing through said stand-pipe.

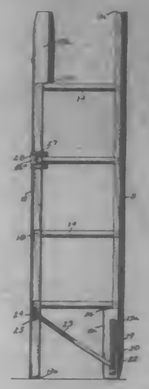
1,401,524. COMPOSITION OF MATTER FOR IMPREGNATING ARTICLES MADE OF PAPER, PASTEBOARD, PULP, AND SIMILAR MATERIAL. JOAQUIN CRESPO, Mexico, Mexico. Filed June 29, 1921. Serial No. 481,370. 1 Claim. (Cl. 134—15.)

An impregnating composition for paper and the like, consisting of rosin 15000 parts, stearin 1500 parts, paraffin 1500 parts, and sulfur 100 parts, substantially as specified.

1,401,525. ENGINE-SIZING FOR PAPER. JOSEPH A. DE CEW, Mount Vernon, N. Y., assignor to Process Engineers Incorporated, New York, N. Y. Filed Aug. 14, 1921. Serial No. 495,097. 6 Claims. (Cl. 134—21.)

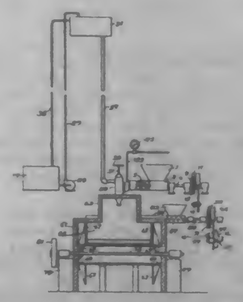
2. A paper size consisting of an approximately 1% solution of rosin soap, glue and formaldehyde in water.

1,401,526. LADDER. FRANK M. DE SAPERSTEIN, JR., Greenville, S. C. Filed Mar. 21, 1919. Serial No. 284,049. 4 Claims. (Cl. 228—36.)



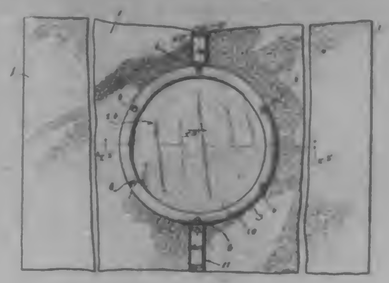
1. In a folding ladder in combination, side rails having channeled inner opposing faces, rungs pivotally mounted at their ends in said channels, and locking means attached to the side rails for holding the ladder rigid in open, closed or every intermediate position, said means comprising a slideway mounted on one side rail, an obliquely disposed bar pivotally connected at one end to the opposite side rail, a clamp member carried at the opposite end of said bar, whereby it may be rigidly clamped to the slideway at its extreme limits or every intermediate point.

1,401,527. PROCESS FOR MANUFACTURING ACID PHOSPHATE OR SUPERPHOSPHATE. WILLIAM T. DOYLE, Boston, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 29, 1921. Serial No. 456,713. 9 Claims. (Cl. 71—7.)



1. A process for manufacturing acid phosphate, characterized by continuously mixing ground phosphate rock and acid, allowing a chemical reaction to take place to convert the insoluble phosphoric acid while conveying the mixture away from the mixer into soluble phosphoric acid, and disintegrating the mixture to liberate vapor therefrom.

1,401,528. WINDOW FOR FABRIC WALLS. JOSEPH H. FLETCHER, Los Angeles, Calif., assignor to Perfection Auto Window Company, Los Angeles, Calif., a Corporation of Arizona. Filed Jan. 4, 1919. Serial No. 270,272. 6 Claims. (Cl. 296—14.)



4. In a vehicle top, the combination with flexible cover means therefor having an opening therein, of a glass in said opening, and means to support the glass independently of the flexible cover means.

1,401,529. SAW. GUSTAV FOOHS, Hoquiam, Wash. Filed Jan. 2, 1920. Serial No. 348,084. 1 Claim. (Cl. 143—68.)



A sawing tool comprising a cylindrical casing having a central partition therein to provide chambers at each side thereof, a rotor in one of said chambers, a disk in the other of said chambers and carried by said rotor, a saw guide on said casing, a saw slidable in said guide, crank and pitman connection between said jaw and disk, an air inlet stem on said casing, an exhaust port in said casing, said stem and port communicating with the rotor chamber, a valve in said inlet stem, a handle on said stem, and valve operating means carried by said handle.

1,401,530. WHEEL OF MOTOR-TRACTORS. HENRY GARNER and JAMES PARKES GARNER, Birmingham, England. Filed Aug. 13, 1919. Serial No. 317,267. 6 Claims. (Cl. 301—40.)



1. In a wheel, the combination of a main rim, a supplementary rim in sectional lengths adapted to fit around said main rim, hook shaped clamps on one edge of one of said rims and adapted to embrace the edge of the other rim, brackets on one of said rims and having abutments, screws on said brackets, and clamps carried by said screws, having inclined parts and coacting with said bracket abutments in such manner as to wedge between the edge of one of said rims and said bracket abutments, for the purpose specified.

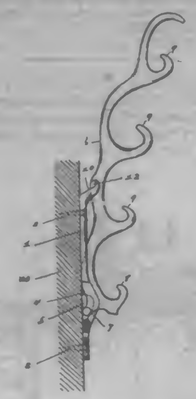
1,401,531. CABLE AND TELEPHONE-WIRE CONTAINING RAIL. FRANK GASPAR, Cupar, Saskatchewan, Canada. Filed Sept. 1, 1921. Serial No. 497,547. 4 Claims. (Cl. 191—29.)



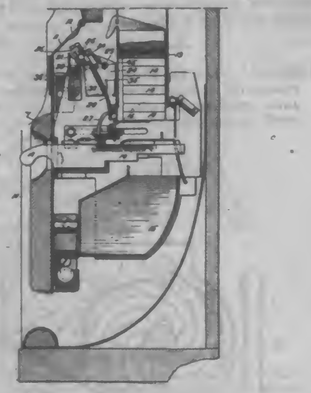
4. A track rail having a thickened web formed with a longitudinal recess, a supplementary web element covering said recess, a sectional contact rail supported adjacent to and insulated from the track rail, wires in said recess, blocks to which said wires are connected at one end, studs adapted to bear upwardly against said blocks and rail sections, cupped enlargements on the lower ends of said studs, springs bearing upwardly in said cupped enlargements, and electrical connection devices between the respective cupped enlargements, said devices comprising bars having semicircular ends fitting against the said cupped enlargements.

1,401,532. FOLDING CLOTHES-RACK. HARRIS S. GEER, Troy, N. Y., assignor of one-half to Frederick M. Geer, Troy, N. Y. Filed Apr. 26, 1921. Serial No. 464,619. 4 Claims. (Cl. 45—13.)

1. In a device of the class described and in combination, a bracket having an upwardly open seat and means of attachment to a wall; and a hook-bar having a vertically movable horizontal pivotal connection with said bracket, a stop engageable with the bracket to support the bar in horizontal position, and a bar-supporting member insertible in said seat when the bar is swung upward to approximately vertical position and its pivotal connection is raised.



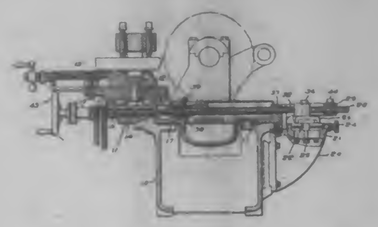
1,401,533. COIN-CONTROLLED VENDING-MACHINE. HARVEY GILES, Brooklyn, N. Y., assignor to Artemas Ward, New York, N. Y. Filed Sept. 18, 1920. Serial No. 411,234. 8 Claims. (Cl. 194—97.)



1. In a coin-controlled vending-machine having an entrance slot for coins, mechanism operable in connection with an introduced coin for discharging a piece of merchandise, an operating handle, a hinged inclined coin-plate for directing a coin entered through said slot to operative position in said mechanism, means for normally holding said plate in operative position and permitting said plate to swing into substantially vertical position on the operation of the machine, said plate having near its upper edge magnets and weight testers at the path of the introduced coins, said weight testers each comprising a pivoted plate

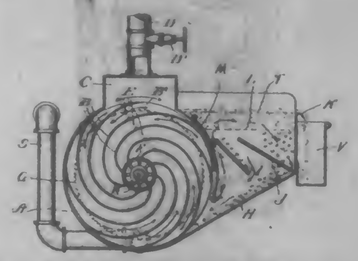
weighted at one end and having an arm extending into the path of the coins and toward a magnet and adapted to co-operation with the magnet to arrest a light weight coin, said tester being yieldable under the weight of a proper coin to permit the same to descend into the operative mechanism of the machine.

1,401,534. TAPER ATTACHMENT FOR LATHES. WILLIAM F. GROENE, Cincinnati, Ohio, assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 6, 1920. Serial No. 394,089. 8 Claims. (Cl. 82—17.)



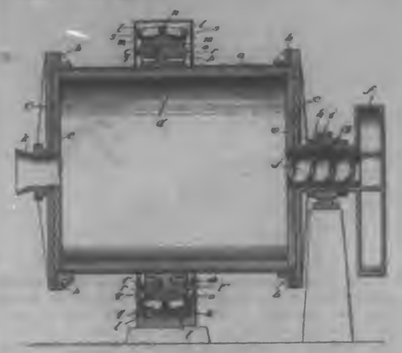
1. In a taper attachment for lathes, the combination of a lathe carriage having a cross slide mounted thereupon, a feed screw operatively secured to the cross slide, a draw bar mounted adjacent the feed screw and slidably supported by the carriage, a bearing block carried by and rigidly secured to the draw bar, said block having the feed screw rotatably mounted therein, the feed screw being held against movement bodily relative to the block, a taper guide bar provided with a sliding shoe, and means for securing said block to said shoe.

1,401,535. FLOTATION APPARATUS AND PROCESS. FREDERICK DANIEL GROSS, RANDALL PORTER AKINS, and JOHN WILLIAM BUCHER, Denver, Colo. Filed Nov. 5, 1919. Serial No. 335,951. 7 Claims. (Cl. 83—85.)



1. The herein described method of separating minerals by the flotation process which consists in successively isolating and commingling definite quantities of a froth producing mineral containing liquid and air to thoroughly commingle and aerate the same, and thereafter directly releasing said definite quantities of aerating liquid below the surface of a body of similar liquid to effect frothing thereof.

1,401,536. ROLLER-BEARING FOR TIRE AND TRUNNION TYPE MILLS. FREDERICK DANIEL GROSS, RANDALL PORTER AKINS, and JOHN WILLIAM BUCHER, Denver, Colo. Filed Nov. 5, 1919. Serial No. 335,952. 5 Claims. (Cl. 83—9.)



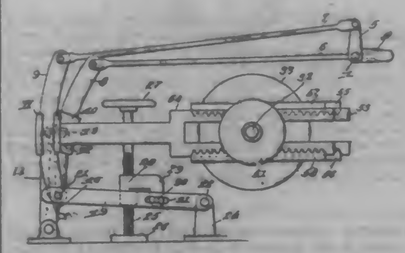
1. In a cylindrical mill, a cylindrical mill shell having an annular tire, an annular series of traveling rollers encircling said tire with means for holding them in spaced relation, and an arc-shaped support beneath said tire upon which the lowermost rollers of the series travel.

1,401,537. AIRCRAFT-PROPELLER. JAMES DE WITT HILL, Scottdale, Pa. Filed May 27, 1919. Serial No. 300,094. 12 Claims. (Cl. 170—162.)



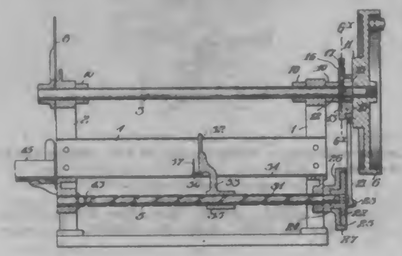
1. A propeller blade having a reverse camber and a negative angle of incidence at its inner end.

1,401,538. CHANGE-SPEED MECHANISM. WILLIAM KESSLER, Sprague, Wash. Filed Nov. 8, 1919. Serial No. 336,738. 5 Claims. (Cl. 74—54.)



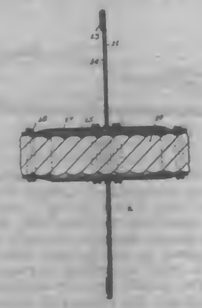
1. In a change speed transmission mechanism, a main constant speed driving shaft, a second or driven shaft, ratchet mechanism for said second shaft, a reciprocating rack bar for operating said mechanism to rotate said second shaft and being partly supported by said mechanism, a pivoted upright, a rack bar pivot connecting said bar with said upright, an arcuate link guide loosely mounted on said rack bar pivot, an arcuate link longitudinally slidable in said guide and having one end in driven connection with said driving shaft, and adjustable means pivoted to the other end of said link for adjusting the latter in said guide to vary the reciprocating stroke of said rack bar.

1,401,539. SLICING-MACHINE. WALTER CHANDLER KNAPP and HERBERT T. LOCKMAN, Rochester, N. Y., assignors to Liberty Bread Slicer, Inc., Brighton Sta., Rochester, N. Y., a Corporation of New York. Filed May 20, 1918. Serial No. 235,534. 2 Claims. (Cl. 17—24.)



1. A slicing machine comprising a frame provided with a chute for the material to be sliced having a longitudinally extending slot in its bottom, standards on the frame extending above the chute at opposite ends thereof, a main shaft rotatably carried at its opposite ends by said standards above said chute, driving means on one end of said shaft, a rotary slicing blade on the other end of said shaft coöperating with the end of said chute to slice the material, a worm shaft rotatably carried by said frame underneath said chute, a nut on said worm shaft, a pusher for the material slidable longitudinally in said chute and connected with said nut through said chute slot, and a driving connection between said main and worm shafts at the end of the machine opposite said slicing blade for imparting step by step rotation to said worm shaft intermediate slicing operations of theb lade.

1,401,540. RAT-GUARD. WILLIAM F. KONIG, San Francisco, Calif., assignor of one-half to John C. McCann, San Francisco, Calif. Filed Dec. 15, 1920. Serial No. 430,847. 3 Claims. (Cl. 114—221.)



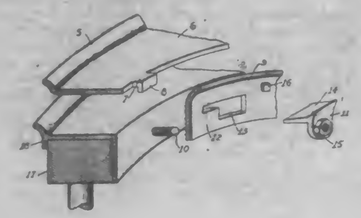
1. A rat guard, including a pair of units, one of said units presenting grooves adapted to receive certain parts of the side edges of the second of the same, each of said units being formed with a recessed portion, these recessed portions being adapted to aline with each other to provide a common opening through both of the units, and clamping strips secured to one of the faces of each of said units, and strips of material, having one of their ends interposed between said clamping strips and face of said units.

1,401,541. DUST-CAP FOR TIRE-VALVES AND THE LIKE. HENRY PHILLIP KRAFT, Ridgewood, N. J. Filed Dec. 17, 1914. Serial No. 877,789. 21 Claims. (Cl. 152—12.)



1. The combination of a valve casing having a nipple and a dust cap adapted to pass freely over said nipple, said dust cap and valve casing having an engaging means for holding the cap in place on the valve casing, said dust cap and valve casing having abutting means at the inlet end of the casing for preventing the onward movement of the cap beyond a fixed point prior to the cap reaching the limit of movement otherwise permitted by the engaging means, the engaging means on the casing otherwise permitting further movement of the cap.

1,401,542. SECTIONAL DEMOUNTABLE RIM. JOSEPH G. KUENZINGER, Chicago, Ill. Filed Dec. 26, 1919. Serial No. 347,333. 3 Claims. (Cl. 301—11.)

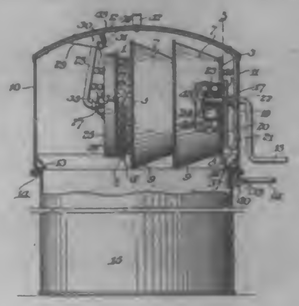


2. In combination a wheel, a demountable rim thereon, the said rim formed of two circumferentially extending parts provided with lug and slot connections that are engaged by relative circumferential movement of the rim members, and means entering thes lots whereby the rim members are locked against reverse circumferential movement and the rim is secured to the wheel.

1,401,543. ASH-SIFTING DEVICE. FRANK H. LEHMAN, Lebanon, Pa. Filed Apr. 6, 1920. Serial No. 371,696. 19 Claims. (Cl. 83—60.)

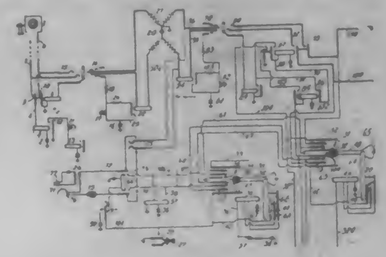
1. An ash sieving device including a portable ash container in the form of a bucket having foraminous side

walls, and outwardly and upwardly diverging protective means outwardly surrounding the side walls to prevent ashes which sift through the side walls from dropping from the container when the latter is in substantially ver-



tical upright position, but adapted to permit such siftings to drop freely from the container arranged to eject the same therefrom when the container is disposed and rotated on a substantially horizontal axis.

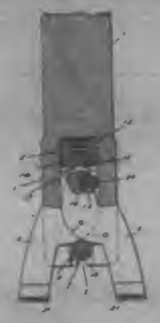
1,401,544. TELEPHONE-EXCHANGE SYSTEM. GEORGE ALBEN E. LUNDELL, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 1, 1919. Serial No. 335,131. 11 Claims. (Cl. 179—50.)



3. In a telephone exchange system an answering operator's board, a trunk operator's board, trunk lines extending from one board to the other, automatic selecting means for seizing an idle trunk, a telephone set for each group of trunks, means individual to each trunk for operatively connecting a trunk to a telephone set, and means responsive to the initiation of a call on one trunk for rendering inoperative the conecting means of the group.

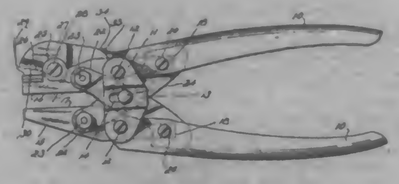
1,401,545. OIL-WELL UNDERREAMER. THOMAS J. MCCORMICK, Elko, Nev. Filed July 9, 1920. Serial No. 395,046. 11 Claims. (Cl. 255—78.)

1. An underreamer comprising a body, jaws carried thereby and yielding means to cushion and expand the jaws whereby an elastic quality is imparted to the under reamer, in combination with yielding means arranged to act against the jaws counter to the first-named yielding



means whereby the elastic quality of the underreamer is increased.

1,401,546. PLIERS. ANTON MAR, New Haven, Conn. Filed May 20, 1920. Serial No. 382,857. 6 Claims. (Cl. 7—3.)



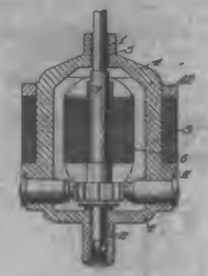
3. In pliers, the combination with a pair of handles, of fulcrum plates connected therewith, jaws, means for operating said jaws from said handles, a supplemental jaw connected with one of said jaws and operated in one direction by the other of said jaws, and means independent of said jaws for actuating said supplemental jaw in one direction.

1,401,547. BEDPAN. BESSIE MOSELEY, Sumter, S. C. Filed Nov. 7, 1919. Serial No. 336,297. 1 Claim. (Cl. 4—19.)



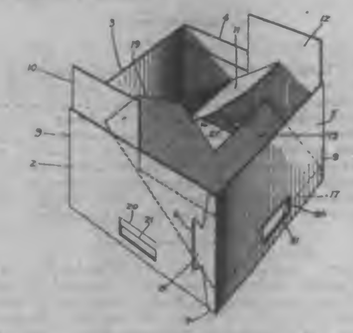
In combination with a bed pan, a cushion for the thin end thereof and consisting of a pocket flaring and opening rearwardly, said pocket having a single lower wall and a double upper and front end wall, the double walls defining a continuous inflatable chamber, and means for holding said pocket on the bed pan, said holding means consisting of a strap secured at one end to the lower wall pocket at its median line and carrying a flexible cap at its other end, said cap adapted to fit the nipple at the rear of the bed pan and an annular clasp carried by said strap adjacent the aforesaid cap and adapted to embrace the nipple and hold the strap thereto.

1,401,548. ELECTRIC MOTOR. THOMAS J. MURPHY, Rochester, N. Y., assignor of one-half to James P. B. Duffy, Rochester, N. Y. Filed Sept. 17, 1917. Serial No. 191,736. 6 Claims. (Cl. 172—36.)



4. In an alternating current motor the combination with a rotor, of a stator comprising oppositely disposed bearings therein for the rotor, longitudinal portions integral with and connecting said bearings, laminations supported by said longitudinal portions and surrounding the same, windings on said laminations arranged to have said longitudinal portions in inductive relation to the stator field.

1,401,549. BERRY-BOX. EDWARD O. NORDSTROM, Minneapolis, Minn. Filed Dec. 23, 1920. Serial No. 432,773. 7 Claims. (Cl. 229—16.)



1. A folding box comprising a blank of flexible material having parallel transverse score lines thereon at intervals to form a series of panels constituting the side walls of the box, each panel having a corner cut away to form lateral extensions on one side and scored transversely with respect to the score lines of the panels and arranged to fold in pairs, one pair upon the other, and each flap of a pair interlocking and lapping over the other flap of the same pair.

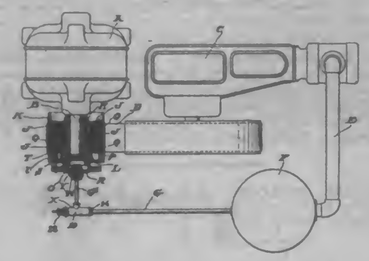
1,401,550. METHOD OF FORMING GEAR-TEETH. CHARLES ALGERNON PARSONS, Newcastle-upon-Tyne, and STANLEY SMITH COOK, Wallsend, England; said Cook assignor to said Parsons. Original application filed May 15, 1918, Serial No. 234,857. Divided and this application filed Mar. 30, 1920. Serial No. 369,967. 3 Claims. (Cl. 90—1.)

1. The method of forming gear teeth which consists in machining the teeth to a form which gives more uniform distribution of force across the face of the gear for given power conditions, by causing the generating hob



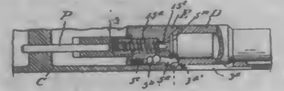
uniformly to approach or recede from the axis of the work as it is fed across the work, as set forth.

1,401,551. FLUID-ACTUATED CLUTCH-PULLEY. FREDERICK W. PARSONS, Elmira, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Nov. 9, 1920. Serial No. 422,976. 3 Claims. (Cl. 192—01.)



1. A fluid actuated clutch pulley, comprising an inner disk driver adapted to be connected to a shaft, a series of inner disks slidable upon but rotatable with the said driver, a pulley casing having an end plate, clutch tie rods connecting said casing and end plate, a series of outer disks loosely carried by said tie rods and arranged alternately with the inner disks, a piston rotatable with the casing, the said piston and end plate having relative longitudinal movement, springs inside the casing for normally pressing the disks together, and means for relieving the spring pressure on the disks when fluid pressure is supplied to the piston.

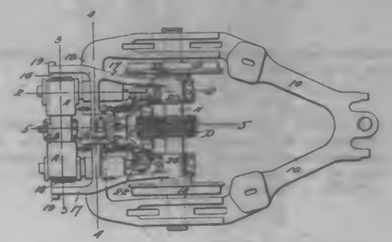
1,401,552. FIREARM. JOHN D. PEDERSEN, Jackson, Wyo. Filed Apr. 7, 1920. Serial No. 371,861. 32 Claims. (Cl. 42—3.)



1. In an auto-loading firearm, the combination of a frame, a barrel, a breech-block reciprocatably-supported on the frame and having a block-face for supporting a cartridge in firing position in the barrel, a block-operating member reciprocatable longitudinally of the frame, and having a guide-way within which the breech-block is arranged for longitudinal reciprocative movements, a firing-pin carried by the block-operating member, a lockable extractor carried by the breech-block, and two faces in positions and arranged on the block-operating member, one

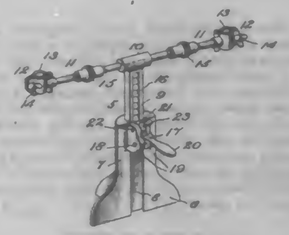
for changing the firing-pin position relatively to the block-face, and the other being an extractor-locking face in position for coacting with the lockable extractor, each during a reciprocative movement of the breech-block within said guide-way.

1,401,553. BOOSTER-MOTOR SUPPORT. HARRY M. PFLAGER, St. Louis, Mo. Filed Sept. 10, 1919. Serial No. 322,862. 8 Claims. (Cl. 105—115.)



1. The combination with a radially movable trailer truck frame and its axle, of a booster motor bed plate formed in a single piece and provided adjacent to its forward ends with bearings adapted to receive the trailer truck axle and the rear portion of said bed plate having bearing on said trailer truck frame.

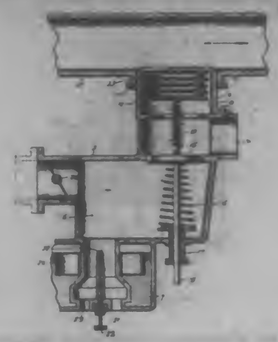
1,401,554. BED-JACK. JOSEPHINE M. PHILLIPS, Elizabeth, N. J. Filed Jan. 7, 1921. Serial No. 435,586. 1 Claim. (Cl. 5—41.)



A bed jack comprising a supporting base, an extension leg slidably mounted in said base, adjustable arms mounted on the upper ends of said leg, means mounted on the base and engaging said extension leg and adapted to be manually actuated for extending the legs, means coacting with said extension leg and base for holding the leg in lifted position, and clamps rotatably mounted on the outer ends of said arms and arranged for engaging the legs of the bed at one end thereof, for the purpose specified.

1,401,555. CARBURETER. CHARLES L. RAYFIELD, Chicago, Ill. Filed June 21, 1917. Serial No. 176,187. 1 Claim. (Cl. 123—124.)

A carbureter having an air admitting valve, in combination with a heat-responsive device, normally resisting the opening of said valve, subject to be heated by the hot exhaust gases of an engine to reduce said resistance; a casing, exteriorly threaded and surrounding said responsive device for insertion, to a greater or less extent, within a threaded aperture in a conduit carrying the hot



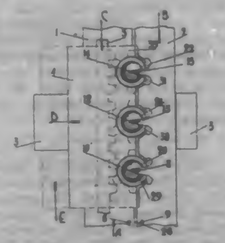
gases exhaust from said engine, and a nut surrounding said casing for securing it in adjusted position.

1,401,556. CLASPING DEVICE FOR ARTICLES OF APPAREL. GUSTAVE ANTOINE RENAULT, Paris, France. Filed May 27, 1919. Serial No. 300,203. 1 Claim. (Cl. 24—221.)



In a fastening for the general purposes described, a female member having a non-circular opening, and a male member comprising a guard-plate, a button adapted to pass through said opening in one angular position but not in another, said button being revolubly mounted on said guard-plate, and means tending to prevent the accidental turning of said button on said guard-plate, the button on the male member having a pivot pin furnished with a ratchet pinion, and resilient pawls carried by the guard-plate and bearing against said pinion.

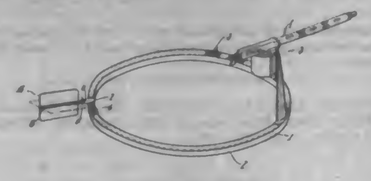
1,401,557. APPARATUS FOR THE MANUFACTURE OF WIRE NETTING. FRANCISCO RIVIERE and FERNANDO RIVIERE, Barcelona, Spain. Filed July 17, 1918. Serial No. 245,337. 4 Claims. (Cl. 140—6.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a wire net machine two parallel wire guides, each arranged to guide a row of spaced apart mesh forming

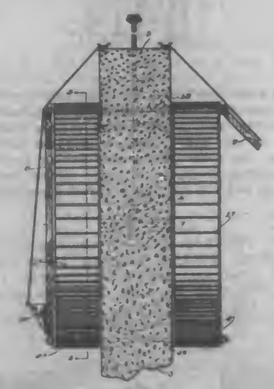
wires, means for guiding through the machine a series of reinforcing wires parallel with the mesh forming wires prior to the formation of the mesh, a plurality of twisting wheels having axial bores and slots giving lateral access to said bores, for engaging the wires, a carrier for said wheels, reciprocable into and from coöperative position with said mesh forming wires and said reinforcing wires, and also reciprocable laterally of said rows of wires, and means for rotating said wheels in both the positions to which they are movable by the lateral reciprocation of said carrier.

1,401,558. EQUALIZER. HUGH M. ROCKWELL, New Haven, Conn., assignor, by mesne assignments, to The Marlin Firearms Corporation, New Haven, Conn., a Corporation of Delaware. Filed Dec. 16, 1918. Serial No. 266,896. 5 Claims. (Cl. 89—40.)



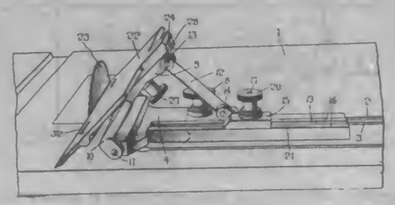
1. A gun mount for airplanes comprising a rotatable member, a gun support on said member, and a vane carried by said member, said vane having a surface area sufficient to equalize the effect of the wind pressure against the gun support and gun carried thereby when the airplane is in flight.

1,401,559. TIDE-POWER MOTOR. PATRICK J. ROONEY, New Rochelle, N. Y. Filed Nov. 1, 1919. Serial No. 334,917. 3 Claims. (Cl. 61—20.)



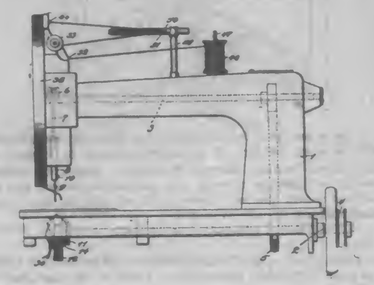
3. In a tide water motor system the combination of two horizontal-opposed-inward-flow-radial turbines arranged in water tight connection over the ends of a conduit through a dam separating two bodies of tide water, outwardly opening valves supported over passageways for discharge water in each turbine case, a dam separating two bodies of tide water, a conduit through the said dam below low water level and power transmitting means for the said turbines, substantially as described.

1,401,560. SAW-GAGE. VERNON ROYLE, Paterson, N. J. Filed Jan. 4, 1917. Serial No. 140,590. 1 Claim. (Cl. 143—168.)



A saw gage comprising, a support pivoted to swing into different angular positions with respect to the work table and a guide plate fitted to slide toward and away from the table on said support and having a dovetailed tongue and groove engagement with the support, and means for clamping the tongue frictionally in the groove, said means operating to draw the plate toward the support and temporarily lock it in various adjustments.

1,401,561. SEWING-MACHINE. MORRIS SCHILLER, St. Louis, Mo. Filed June 9, 1919. Serial No. 302,899. 9 Claims. (Cl. 112—248.)

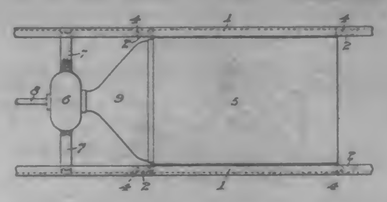


1. A sewing machine of the type described comprising, in combination, a needle, means for pulling-off and taking-up the needle-thread, said means including a rotary member, a member carried by the rotary member for pulling the thread to the needle, and a second member also carried by the rotary member and spaced circumferentially on the rotary member from the first member adapted to grasp and take up the thread from the needle and then release the thread, mechanism for reciprocating the needle and actuating the rotary member, and yielding means for taking up slack in the thread on its release by said second member.

1,401,562. COOLING RADIATORS. HERBERT N. SEARLES, Oyster Bay, N. Y. Filed May 12, 1920. Serial No. 380,781. 3 Claims. (Cl. 257—126.)

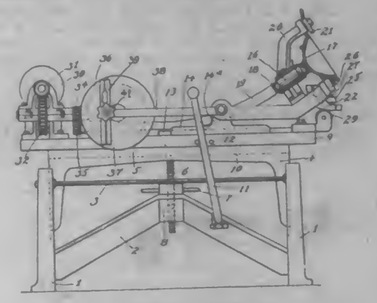
1. In a cooling apparatus of the class stated the combination of a tubular radiator entirely open at both top and bottom, a chamber having air-tight top, sides and ends, but an entirely open bottom superposed upon one of the open sides of the radiator, a blower outside

of the radiator constructed and arranged to discharge into an air trunk connecting the blower with an air-



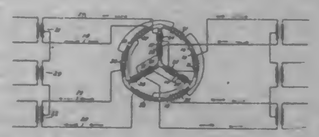
chamber, said air trunk itself, and means to operate the blower.

1,401,563. METAL-BURNISHING MACHINE. WILLIAM B. SMITH, Norwood, Ohio. Filed June 19, 1919. Serial No. 305,271. 12 Claims. (Cl. 51—230.)



1. In a machine for buffing or the like, the combination with a work holder, of automatic means to impart reciprocatory motion thereto, automatic means to enforce curvilinear motion thereto and automatic means for imparting rotary motion thereto, all of said motions being simultaneous.

1,401,564. TETRAHEDRONAL MAGNETIC UNIT. JAMES BUCKNER SPEED, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 3, 1918. Serial No. 252,381. 16 Claims. (Cl. 178—46.)



1. A magnet core comprising six limbs outlining a tetrahedron.

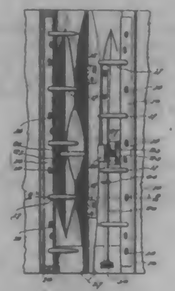
1,401,565. AUTOMOBILE-RADIATOR. CHARLES F. SPERY, Chicago, Ill. Filed June 25, 1920. Serial No. 391,587. 3 Claims. (Cl. 257—130.)

1. In a radiator, the combination with the upper and lower radiator tanks, of a plurality of flattened tubes interconnecting the said tanks, a pair of corrugated fins attached to each tube, said fins having flat bases encompassing the tube, shaped with horizontally disposed V's extending from the said bases and having a plurality



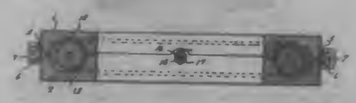
of indentations in the apex of each V for the purpose of directing the air passing through the said fins toward the tubes.

1,401,566. LOOSE-LEAF BINDER. LEON B. STODDARD, Baker, Oreg. Filed Aug. 12, 1919. Serial No. 317,086. 8 Claims. (Cl. 129—17.)



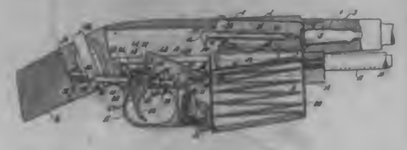
1. In a loose leaf binder, the combination of a pair of hingedly connected sections, an arcuate segment carried by one section and provided with ratchet teeth on its concaved surface, and a pivotably mounted locking block carried by the other section and having ratchet teeth thereon adapted to engage with the ratchet teeth of the segments to lock the sections in adjusted positions.

1,401,567. PROCESS AND APPARATUS FOR MANUFACTURING HOLLOW RUBBER ARTICLES. HEZEKIAH R. STRATFORD and ELMER SCHEUER, Cleveland, Ohio. Filed Sept. 10, 1919. Serial No. 324,796. 17 Claims. (Cl. 18—45.)



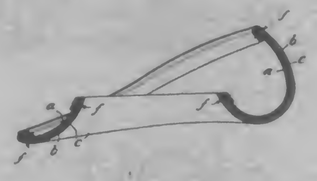
1. A core for use in the manufacture of hollow rubber articles consisting of metal cast to a form to fit the interior of the article and arranged in sections separated by sheets of fabric, the core being adapted to melt when vulcanizing temperature is applied to the article.

1,401,568. REPEATING FIREARM. CARL GUSTAF SWEBILIUS, New Haven, Conn., assignor, by mesne assignments, to The Marlin Firearms Corporation, New Haven, Conn., a Corporation of Delaware. Filed Feb. 19, 1919. Serial No. 277,974. 27 Claims. (Cl. 42—22.)



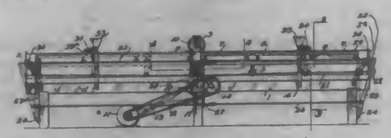
1. In a repeating firearm, a receiver, a breech mechanism operatively mounted therein, means to operate said breech mechanism, a hammer, a trigger, means to retain said operating means in one position until after the hammer has reached the forward limit of its travel, and means to lock said hammer in cocked position, said hammer-locking means being independent of but releasable by said retaining means.

1,401,569. METHOD OF REPRODUCING HATS. TOSKA SEMMIG, nee TEICH, Dresden, Germany. Filed Jan. 2, 1914, Serial No. 810,080. Renewed Jan. 6, 1917. Serial No. 140,920½. 1 Claim. (Cl. 2—108.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



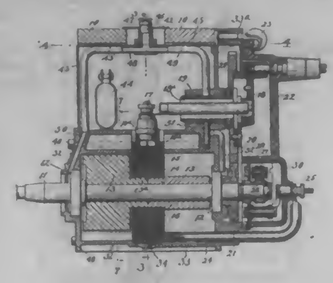
A method of reproducting hat shapes, consisting in applying to the hat to be reproduced a loose layer of waterproof material such as guttapercha paper, applying to this layer another, plastic layer of moist material such as stiff muslin, and drying the latter layer rapidly over a flame while applied to the hat, substantially as set forth.

1,401,570. TWO-WAY SIGN-PRINTING PRESS. CHARLES W. TURNER, Massillon, Ohio, assignor to Massillon-Cleveland-Akron Sign Company, Massillon, Ohio, a Corporation. Filed Apr. 26, 1921. Serial No. 464,576. 11 Claims. (Cl. 101—212.)



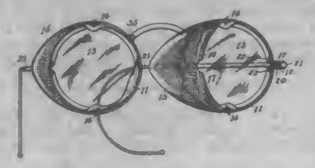
1. A printing machine of the character described, including a printing cylinder, a reciprocating impression table movable back and forth under the printing cylinder, and means connected to and movable with the table for inking the cylinder after the impression table has passed under the same in either direction, whereby a complete printing impression may be made upon the movement of the table in either direction.

1,401,571. MAGNETO. JOSEPH A. WILLIAMS, Cleveland, Ohio. Filed Feb. 2, 1920. Serial No. 355,588. 10 Claims. (Cl. 123—149.)



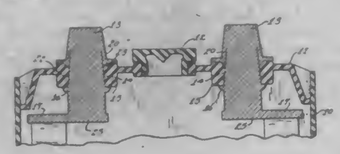
1. In a magneto, a housing adapted to support a rotor shaft composed of two members adapted to be fitted end to end with their meeting faces arranged transversely of the rotor axis, a pair of pole pieces carried by each housing member, and magnets engaging said pole pieces.

1,401,572. GOGGLES. FREDERICK WILLSON and HARRY F. SHINDEL, Reading, Pa., assignors to T. A. Willson & Co., Inc., Reading, Pa., a Corporation of Pennsylvania. Filed Aug. 23, 1919. Serial No. 319,307. 7 Claims. (Cl. 2—149.)



1. In an eye protector, a lens-clamping framing having opposed end-piece members and an eye-cup extension, a detachably engaged spring-clip band for the abutted members, and a pivoted eye shield adapted to hold said members together without interfering with the operation of said band.

1,401,573. BATTERY-POST AND METHOD OF MAKING A SEAL. HARRY L. WOOD, Lakewood, Ohio. Filed Mar. 21, 1921. Serial No. 453,027. 7 Claims. (Cl. 204—52.)



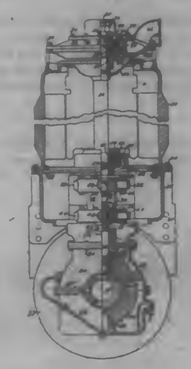
1. The process of sealing a battery post consisting of taking a cell cover, extending a partially formed post through the cover and from the bottom thereof, placing a ring over the post and on top of the plate, fusing the post with the ring and then adding material to build up the post.

1,401,374. GAGE-TUBE PROTECTOR AND ILLUMINATOR. ASHLEY L. WRIGHT, Newton, Mass. Filed Oct. 28, 1920. Serial No. 420,253. 2 Claims. (Cl. 73—64.)



1. A gage tube protector and illuminator comprising a cage formed to surround the indicating portion of a vertical gage tube, and provided at one side with a light-conducting opening having vertical guides at its opposite edges, and with a stop at the lower end of said opening; and a lamp casing having a hollow light-conducting neck provided with a light-transmitting protective filler, which includes a glass prism, and angular flanges at opposite sides of said neck, embracing edge portions of the prism, said filler being engaged with said guides, and adapted to abut against said stop to support the lamp casing in its operative position, the filler constituting also a slidable runner which permits the application and removal of the lamp casing, other sides of the cage being provided with sight openings and with protective prisms therefor.

1,401,575. ELECTRIC LOCOMOTIVE. THORSTEN ZWEIGBERGK, London, England. Filed Mar. 16, 1920. Serial No. 366,388. 10 Claims. (Cl. 105—49.)



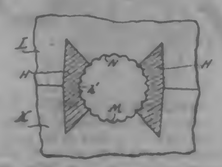
3. In an electric locomotive, a driving axle, a motor casing, a vertical rotor, bearings for said rotor supported by said casing, gearing between said rotor and said axle, and a dish-shaped member surrounding said rotor below the bearings at one end thereof, whereby oil or grease from said bearings is prevented from entering the motor.

1,401,576. COMBINATION COMB AND BRUSH. NORA CAGE BERMAN, Chatham, Va., assignor of one-fifth to Beatrice Rice, Cobleskill, Pa. Filed Dec. 10, 1920. Serial No. 429,849. 2 Claims. (Cl. 132—86.)



1. A device of the class described comprising a laterally slotted frame, a slotted handle integral therewith, a comb pivotally mounted in the slot of said handle, resilient means for retaining said comb within the slot, a pair of combs having longitudinal slots disposed in the slots of said frame, pins fixed in said frame passing through the slots of said combs permitting said combs to be retracted and reversed, and resilient means fixed in said frame engaging recesses in the last named combs.

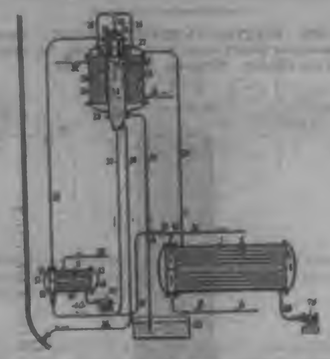
1,401,577. ART OF MOLDING. SYLVESTER BECKER, Rutherford, N. J., assignor to Sterling Bronze Company, New York, N. Y., a Corporation of New York. Filed July 29, 1921. Serial No. 488,284. 7 Claims. (Cl. 22—193.)



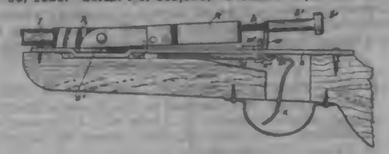
6. In the art of molding, the process which consists in obtaining a cast in plastic material from a definite selected area of a pattern, producing a core box with a matrix conforming to the contour of the selected area of the pattern, making a core print from said core box, molding in sand from the pattern a matrix, and assembling the core print into register with said matrix.

1,401,578. APPARATUS FOR PRODUCING DISTILLED WATER. BRUNO H. BERGIUS, Gross-Borstel, near Hamburg, Germany. Filed Mar. 5, 1914. Serial No. 822,665. 3 Claims. (Cl. 203—5.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. In an apparatus for distilling sea-water of the character described, the combination of a main condenser and a preheater with an evaporator operating under a partial vacuum, a valve controlled pipe connecting said main condenser and said preheater, a pipe connecting said preheater with the upper part of said evaporator, a steam chamber in said evaporator, a pipe connecting said chamber with the pipe connection between main condenser and preheater for recommingling the excess of water from said evaporator with the water supply from said main condenser, a tank, and a pipe connecting the evaporator with said tank for conducting the distilled water into said tank, and a pipe connection between said evaporator and said main condenser, substantially as described and for the purpose set forth.

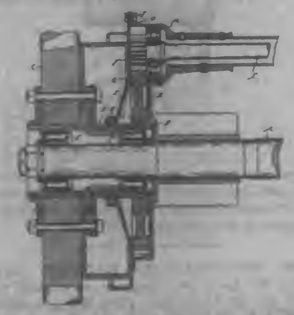


1,401,579. FIREARM. WILHELM BRÄUNING, Berlin, Germany, assignor to Deutsche Werke Aktiengesellschaft, Berlin, Germany, a Corporation of Germany. Filed Apr. 30, 1921. Serial No. 465,020. 3 Claims. (Cl. 42—36.)



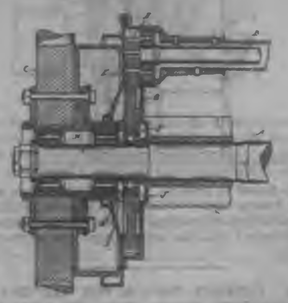
1. Breech-mechanism for fire-arms which consists in a barrel with a connected square-shaped breech-piece, an upwardly swinging breech-locking device, a striker mounted endwise in said device and projecting rearwardly therefrom, a breech supporting bar, an offset in said bar, an angle-piece fast on same and extending to the rear of said locking device, said angle-piece having an aperture for guiding said striker.

1,401,580. VEHICLE DRIVE-AXLE. ALANSON P. BRUSH, Detroit, Mich. Filed Mar. 8, 1917. Serial No. 153,519. 4 Claims. (Cl. 74—7.)



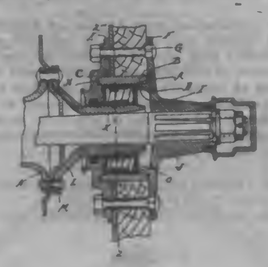
1. The combination with an axle, of a jack-shaft arranged parallel thereto, a vehicle wheel mounted on said axle, a pinion on said jack-shaft, a spur-gear in mesh with said pinion and arranged concentric to said axle, having a driving engagement with said vehicle wheel, a housing on said axle inclosing said gear-wheel, and a housing for said pinion forming a mounting for said jack-shaft, detachably secured to said housing for the gear-wheel.

1,401,581. VEHICLE DRIVE-AXLE. ALANSON P. BRUSH, Detroit, Mich. Filed Mar. 8, 1917. Serial No. 153,520. 1 Claim. (Cl. 74—7.)



The combination with an axle, of a jack-shaft arranged parallel thereto, a pinion on said jack-shaft, a spur gear wheel in mesh with said pinion and arranged concentric to said axle, a journal bearing for said spur-gear wheel upon said axle, a vehicle wheel detachably mounted upon said axle and having a detachable driving engagement with said spur-gear wheel, and anti-friction means upon said axle for supporting said vehicle wheel independently of said journal bearing.

1,401,582. VEHICLE-WHEEL. ALANSON P. BRUSH and OWEN M. NACKER, Detroit, Mich. Filed Mar. 8, 1919. Serial No. 281,516. 4 Claims. (Cl. 301—64.)



1. In a vehicle wheel, the combination with the spoked section, of a hub formed of outer and inner members on opposite sides of said spoked section, an annular member constituting the outer race member for a roller bearing fitting the bore of said spoked section and engaging annular bearings in said outer and inner hub sections, said annular member constituting a pilot and spacer between said hub sections, and bolts for clamping said hub sections to the spoked sections.

1,401,583. EXHAUSTER. GEORGE W. CHRISTOPH, Warehousepoint, Conn. Filed July 9, 1918. Serial No. 244,021. 10 Claims. (Cl. 302—37.)

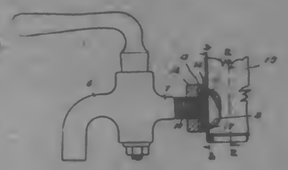
1. An exhauster, comprising, a casing provided with a rotor compartment, a rotor so located therein as to leave an arcuate passage between the rotor and the peripheral wall of said compartment, an outlet provided in the casing for said passage, said casing being provided with

an inlet duct partially encircling the axis of the rotor in concentrical relation therewith and communicating at one end with the roller compartment at points both into and out of the path of the rotor, the other end of said duct adapted to receive grain laden with middle air of



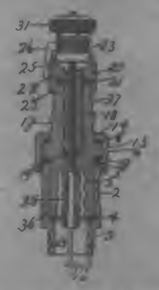
which are forced in transverse a curved path before entering the rotor compartment, whereby the heavier particles may be separated from the lighter by centrifugal force and the former delivered into the compartment out of the path of the rotor.

1,401,584. CONDUIT DEVICE FOR TAPPING CANS. ALBERT F. CIBEK, Seattle, Wash. Filed May 4, 1920. Serial No. 378,885. 2 Claims. (Cl. 221—23.)



1. The combination with a plate of flexible material having a circular hole therein and provided with a slot that intersects said hole, of a cylindrical shank adapted to be inserted in said hole, and a head on said shank, said head being of larger diameter than said hole and having a groove extending optically from the outer to the inner surface thereof and arranged to permit the passage of the material around the circumference of said hole whereby said head may be passed through said hole.

1,401,585. SPARK-PLUG. ARCHIE FREDERICK COLLINS and VIRGIL DEWEY COLLINS, Congers, N. Y. Filed June 17, 1919. Serial No. 304,340. 19 Claims. (Cl. 123—169.)



1. A spark plug having a pair of electrodes, one adjustable relatively to the other thereby to vary the spark gap,

and ring assembying means for adjusting said electrode, means for accurately measuring the spark gap, and means for preventing the setting of such measuring means.

1,401,586. ELECTRICAL SEARCHING-COIL. ARCHIE S. CHADWICK, Mount Kisco, N. Y. Filed Jan. 24, 1920. Serial No. 353,872. 8 Claims. (Cl. 175—294.)



1. An electrical searching coil comprising a core of electrically conductive material, a primary winding electrically connected thereto and wound thereon, a secondary winding electrically connected to said core and wound thereon in an angular relation to said primary winding.

1,401,587. ELECTRIC SWITCH. FREDERICK R. CORNWALL, St. Louis, Mo., assignor to The Emerson Electric Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed July 17, 1918. Serial No. 245,279. 10 Claims. (Cl. 200—80.)

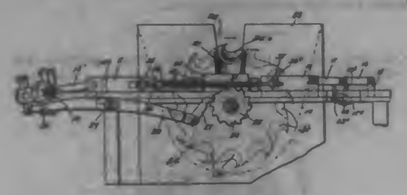


1. The combination of an electric switch having offset tappets, and centrifugally operated devices moving in different transverse planes for alternately cooperating with said tappets to open and close said switch.

1,401,588. NUT-CRACKING MACHINE. RICHARD S. CROWE, St. Louis, Mo., assignor of one-half to George Tower, Jr., St. Louis, Mo. Filed Mar. 21, 1921. Serial No. 453,979. 12 Claims. (Cl. 141—3.)

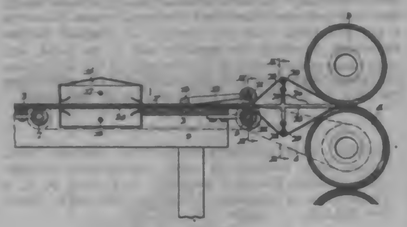
1. In a nut cracking machine, a yielding reciprocating jaw, a releasable jaw adapted to cooperate with said recip-

rocating jaw, said reciprocating jaw having a yielding longitudinal movement independently of said releasable jaw,



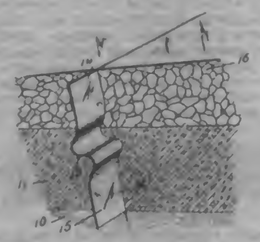
and means for releasing said releasable jaw, said means being adapted to become operative by the yielding movement of said reciprocating jaw.

1,401,589. METHOD AND APPARATUS FOR STRETCHING AND PRESSING KNIT TUBULAR FABRICS. THOMAS CUNNINGHAM, Philadelphia, Pa. Filed Mar. 2, 1920. Serial No. 362,842. 9 Claims. (Cl. 26—16.)



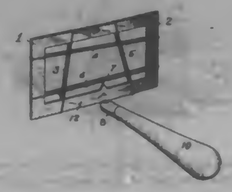
8. An apparatus of the character described, comprising means for progressively expanding a tubular fabric flat; means for spreading apart and stretching the sides of the tube; and means for pressing the sides of the tube flat together.

1,401,590. DIVIDER FOR CEMENTITIOUS FLOORS. LOUIS DEL TURCO, Newark, N. J. Filed May 17, 1921. Serial No. 470,235. 4 Claims. (Cl. 94—3.)



1. A divider for use in terrazzo and similar flooring consisting of a strip of metal having a straight portion at its top edge and being corrugated intermediate of its top and bottom edges.

1,401,591. DRAWING INSTRUMENT. ALLEN B. DOGGETT, Brooklyn, N. Y. Filed Dec. 8, 1919. Serial No. 343,167. 3 Claims. (Cl. 33—64.)



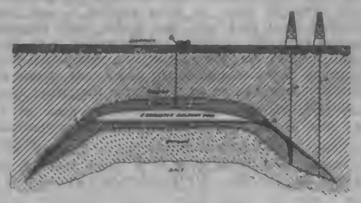
1. As an article of manufacture, a drawing device comprising a rectangular frame of sheet material, having adjacent the center of the bottom thereof a clasp adapted to receive a pencil and a sighting apex immediately above said clasp.

1,401,592. DEVICE FOR ELECTRICALLY HEATING HAND-IRONS. DAVID DONALDSON, Leith, Scotland. Filed Sept. 16, 1920. Serial No. 410,758. 2 Claims. (Cl. 219—23.)



1. A device for heating electric irons, comprising a switchboard, an inclined stand to support the iron, and contacts on said board and on the iron.

1,401,593. PROCESS OF MINING SULFUR. AUGUST TOBY DRACHENBERG, Gulf, Tex. Filed May 25, 1921. Serial No. 472,413. 8 Claims. (Cl. 262—3.)



1. The improvement in the method of mining sulfur by underground fusion, which comprises conducting an appropriate fusing medium into the formation containing the sulfur deposit and thereby melting the sulfur, and appropriately regulating the flow of said fusing medium upwardly through the formation by compressed gas forced into the formation above the discharge into the formation of said fusing medium.

1,401,594. REVERSIBLE TAP AND DIE HOLDER. EDMOND E. DROWNS, Cleveland, Ohio, assignor to The National Acme Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 25, 1920. Serial No. 384,075. 18 Claims. (Cl. 10—136.)

1. A holder for a threading tool comprising a pair of body members having coöperating driving pins, said body

members having one a shank and the other a bore fitting thereon, and having between the same roller grip pins, the driving pins being effective to rotate the members together in one direction and the grip pins being effective to lock the members on the reversal of one member relatively to the other.

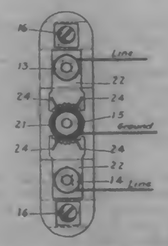


1,401,595. CHILD'S SWING. JOHN A. EMMER, St. Louis, Mo. Filed Sept. 27, 1920. Serial No. 413,978. 7 Claims. (Cl. 155—67.)



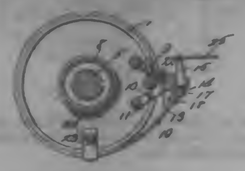
1. A child's swing comprising a rigid seat frame provided with side members each having a rear portion inclined upwardly from its front portion, a seat pocket suspended from said rigid seat frame, rigid suspension members extending upwardly and forwardly from the upwardly inclined rear portions of said side members, and suspension means secured to the upper ends of said rigid suspension members, so as to balance the swing seat in an upright position.

1,401,596. LIGHTNING-ARRESTER. EDWARD ALLEN EVERETT, Long Island City, N. Y. Filed Sept. 15, 1920. Serial No. 410,523. 4 Claims. (Cl. 175—30.)



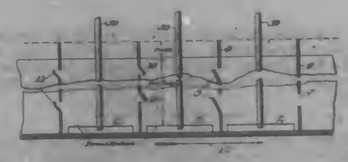
1. In a device of the class described, in combination, an incoming line terminal strip with saw teeth, an outgoing line terminal strip with saw teeth, a plurality of cutter-members with a ground connection between the saw teeth of said strips, a mica spacer supported by said strips, said spacer regulating the air gap between said strips and said cutter-members above.

1,401,597. AUXILIARY BRAKE FOR MOTOR-VEHICLES. HARVEY S. FRY, Reading, Pa. Filed Jan. 20, 1920. Serial No. 352,601. 1 Claim. (Cl. 188—77.)



In combination with the brake drum of a vehicle, a substantially Y shaped bracket secured to the brake drum housing, the stem of said bracket extending radially therefrom and projecting beyond the peripheral edge thereof, levers of different lengths journaled in the outermost end of said stem, said levers being movable in unison, a brake band encircling the outer circumference of said drum, with one end bent upon itself forming a sleeve to receive a pin projecting from the bracket, an angular bracket adjustably joined to the opposite end of the band, said plate being associated with the shortest of the said levers, and means connected with the other lever for contracting the band to bring it into engagement with the drums.

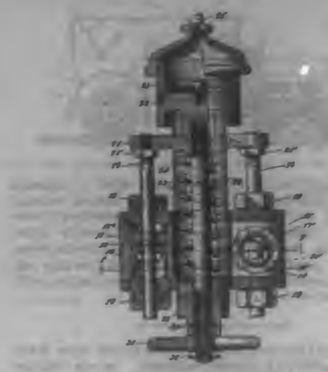
1,401,598. FLOTATION APPARATUS. RUDOLF GAHL, Miami, Ariz., assignor, by mesne assignments, to Pneumatic Process Flotation Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 29, 1918. Serial No. 214,318. 3 Claims. (Cl. 83—85.)



1. An apparatus for ore pulp concentration comprising a tank having a porous bottom impermeable to the downward passage therethrough of ore pulp, means for forcing gas therethrough, partitions subdividing the tank into compartments, said partitions extending to and being imperforate in immediate proximity to the bottom of the tank and provided with openings above said bottom, said openings being in such number and arrangement as to cause the pulp to flow in an even stream.

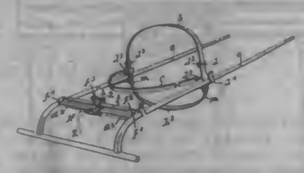
1,401,599. AUTOMATIC REGULATOR FOR FUEL-OIL BURNERS. ERNEST GROSSENBACHER, Fajardo, Porto Rico. Filed June 21, 1921. Serial No. 479,458. 4 Claims. (Cl. 236—8.)

3. An automatic regulator for fuel oil burners comprising a body having a plurality of valve chambers therein and provided with a plurality of passages communicating with said chambers through openings of rectangular form, valves slidable in said chambers and movable transversely across said openings, said valves being independently adjustable about their axes, shields carried by said valves and adjustable therewith across said openings to selectively cut off portions thereof whereby the effective areas



of said openings are varied and means for coincidentally actuating said valves without disturbing the adjustment of said shields.

1,401,600. HARNESS. JOHN C. HANKINS, Detroit, Mich. Filed Jan. 17, 1919. Serial No. 271,566. 5 Claims. (Cl. 278—26.)



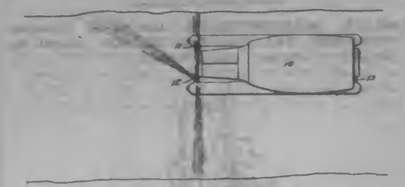
1. In an apparatus of the kind described, a whiffletree consisting of a flat bar lying horizontal and adapted to turn about a pivot parallel to the length thereof, said bar being twisted to form vertical edges at its ends and being extended in a neck and an enlargement extending vertically in the normal position of the whiffletree.

1,401,601. MOLDING APPARATUS. HARRY B. HARLOW, Alton, Ill., assignor to Commonwealth Steel Company, St. Louis, Mo., a Corporation of New Jersey. Filed June 14, 1920. Serial No. 388,967. 7 Claims. (Cl. 22—125.)



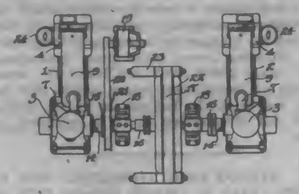
1. In a mold, the combination with a molding form and a plurality of cover cores, of individual means each adapted to independently secure a cover core to the form and to adjust itself to the plane of the top surface of its individual cover core.

1,401,602. LIGHTING ARRANGEMENT FOR AUTOMOBILES. FRANK W. HINES, Washington, D. C. Filed Oct. 27, 1921. Serial No. 510,756. 4 Claims. (Cl. 240—7.)



4. The combination with an automobile and auxiliary lights associated therewith the latter being disposed at such angles as to direct light rays toward the right hand edge of the roadway at a point in advance of the vehicle to which they are applied, and to direct light rays substantially transversely across the roadway to the left of the vehicle and lighting means carried by the said vehicle for illuminating the front of said vehicle to thereby disclose its proportions to the driver of an approaching vehicle.

1,401,603. COMPRESSOR. FRED D. HOLDSWORTH, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed May 29, 1916. Serial No. 100,638. Renewed Oct. 5, 1921. Serial No. 505,611. 34 Claims. (Cl. 230—32.)



1. In combination, a pair of compound compressors each comprising angularly disposed high and low pressure cylinders, double acting pistons in said cylinders, and actuating means for said pistons including a single crank operatively connected to both of said pistons, and means for driving said compressors including means for connecting the cranks in angular relation to each other.

4. In combination, a plurality of double acting angle compressors, and means for driving them in split phase relation.

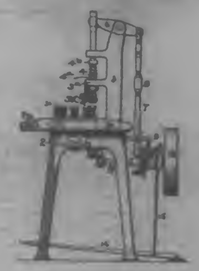
1,401,604. AUTOMOBILE-RADIATOR. JULIUS A. HUSAR, Cleveland, Ohio. Filed Mar. 15, 1920. Serial No. 365,752. 16 Claims. (Cl. 257—130.)



1. In a radiator, a set of cellular units each comprising a strip of sheet metal, with alternate transverse projections and depressions extending longitudinally forming

corrugations, the faces of which are of unequal length, whereby said units may be united to form the connected water passageways and means for securing adjacent units together at the face of the radiator.

1,401,605. STAMPING-PRESS. GEORGE H. JAQUISH, Philadelphia, Pa. Filed Sept. 19, 1919. Serial No. 324,797. 5 Claims. (Cl. 113—115.)



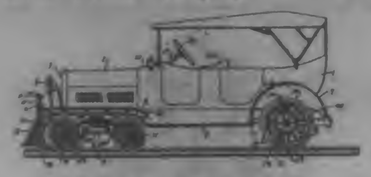
1. In a stamping press, the combination of a reciprocating die plunger, a turret journaled upon an axis parallel to the direction of reciprocation of the plunger but out of line therewith, dies carried by the turret arranged in position about its axis and adapted to be successively brought into line with the reciprocating die plunger, a rotary horizontal power shaft arranged below the turret and having a cam for reciprocating the die plunger, upwardly extending connecting means between the cam and die plunger for operating it from the cam, upwardly extending power transmitting connections between the rotary power shaft and turret for imparting to the latter an intermittent rotary motion, and locking means for automatically locking the turret during its periods of rest intermediate of its intermittent rotary movements.

1,401,606. WINDOW-SASH TIGHTENER FOR VEHICLE-TOPS. DAVID R. JENKINS, Oakland, Calif. Filed Aug. 4, 1920. Serial No. 401,091. 2 Claims. (Cl. 296—47.)



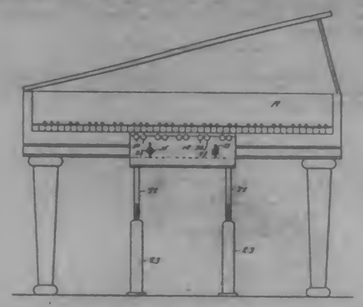
1. A window-sash tightener comprising a fixed guide; means for slidably connecting the window-sash with and spacing it from said guide; a pair of independent clamping members associated with the sash, one near each end thereof and lying in the space between the sash and guide; means pivotally connecting said clamping members with the sash adapting them to swing in relatively opposite directions to and from contact with said guide; a pair of fixed stops one near each end of the guide, with which the clamping members are respectively adapted to contact near the limits of travel of the sash, whereby said members are elevated into clamping engagement with the guide, a pair of fixed releasing lugs on the guide, one near each stop and with which the clamping members are respectively adapted to contact on the return movement of the sash from its limits, whereby said members are positively thrown down again and the sash freed, and a block carried by the sash and yieldingly pressed into frictional contact with the guide, said block being adapted to prevent the clamping members from swinging over center.

1,401,607. RAILWAY MOTOR-CAR. JAMES F. KREIMER, Ponca Town, Mo. Filed May 10, 1919. Serial No. 296,156. 6 Claims. (Cl. 105—62.)



1. A railway motor-car constructed with a separate non-driving swiveling front-truck having flanged wheels; rear flanged driving-wheels; and a power-plant composed of a combustion motor mounted directly above said truck on the car-frame, and the positively-driven toothed-gear power transmitting and speed-changing devices of a conventional automobile; in combination with the usual control-devices of the latter.

1,401,608. ILLUMINATING ATTACHMENT FOR KEYBOARD MUSICAL INSTRUMENTS. BRUCE GORDON KINSLEY, Los Angeles, Calif. Filed Sept. 29, 1919. Serial No. 327,092. 21 Claims. (Cl. 84—464.)



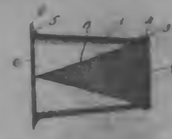
2. The combination with a musical instrument having a keyboard, of a means for producing illumination of various colors adapted to interpret the emotions produced by the music and a set of controlling devices operable independently of the notes produced corresponding to the respective colors and located in a position to be engaged by the player while his hands are on the keys.

13. The combination with a musical instrument having a keyboard, of a frame, a pair of extension legs engaging the floor and clamping said frame against the under side of the keyboard frame, said clamping frame having an adjustable front plate, and a manually operable switch carried by said front plate.

21. The combination with a musical instrument having a keyboard, of a standard having arms, groups of electric lamps on the arms, the lamps being grouped in sets of different wattage, each set having lamps of various colors, a set of switches located adjacent to the keyboard of the musical instrument, each switch corresponding to one of the colors and each switch having various positions, and circuits for connecting switches with the various lamps.

1,401,609. MIXER. DEO KLEIN, Gillespie, Ill. Filed Oct. 13, 1920. Serial No. 416,675. 2 Claims. (Cl. 48—180.

2. A mixer of the character described comprising an elongated tapered sleeve having both ends open, a screen panel mounted in the small end of the sleeve, a second screen panel mounted in the large end of the sleeve, a conical screen member of a length equal to the length of the said sleeve, and having its pointed end in contact



with the center of the screen panel at the large end of the said sleeve, its large open end being secured to the opposite end of the sleeve at the marginal edge of the screen panel in the small end of the sleeve.

1,401,610. AUTOMOBILE-TIRE. ARTHUR G. KUHN, Covington, Ky. Filed Aug. 1, 1919. Serial No. 314,691. 8 Claims. (Cl. 152—10.)



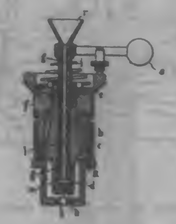
1. An automobile tire comprising an outer casing and an inner casing integral therewith, the inner casing having on its outer surface a series of rows of diamond shaped projections, the projections in adjacent rows being staggered, and the rows being a distance apart less than the length of the projections.

1,401,611. TOOL FOR APPLYING STAYBOLT-SLEEVES TO BOILERS. FREDERICK K. LANDGRAF, Pittsburgh, Pa., assignor to Flannery Bolt Company, Pittsburgh, Pa. Filed May 3, 1920. Serial No. 378,531. 14 Claims. (Cl. 113—99.)



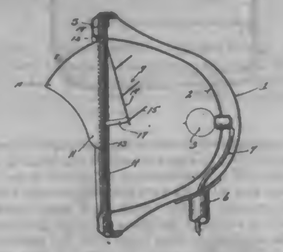
1. In a tool for applying stay bolt sleeves to boiler sheets and holding the sleeves while they are welded or otherwise secured to the outer sheet, the combination of a bar adapted to pass through two sheets of a boiler, a centraliser mounted to slide on said bar and adapted to engage the stay bolt sleeve, and means within the centraliser for locking the latter at any point on the bar.

1,401,612. SPARK-PLUG SERVING ALSO AS COMPRESSION AND INJECTION VALVE FOR INTERNAL-COMBUSTION ENGINES. CARL OTTO LANDGREBE, Dresden-A., Germany. Filed May 28, 1917. Serial No. 171,552. 1 Claim. (Cl. 123—169.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



A spark plug including an outer casing provided with an internally threaded opening forming a valve seat at its lower end, and a central hollow electrode provided with a valve at its lower end adapted to be positioned within said opening, the valve being adapted to seat upon the rotation of the electrode within the opening by reason of the latter's engagement with the screw threads.

1,401,613. AUTOMOBILE-HEADLIGHT. HART F. LANDON, Milwaukee, Wis. Filed Aug. 9, 1920. Serial No. 402,157. 3 Claims. (Cl. 240—48.4.)

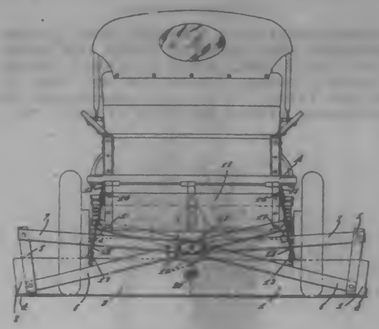


1. The combination of a headlight attachment comprising a one-piece hood, and light retarder bent to be disposed on opposite sides of a headlight lens, the light retarder including a frame and a plurality of light reflecting plates extending transversely across the frame in forwardly and downwardly disposed planes.

1,401,614. ROAD-DRAG. HARRY A. LARSON, Milford, Utah. Filed Aug. 25, 1920. Serial No. 405,870. 4 Claims. (Cl. 37—7.)

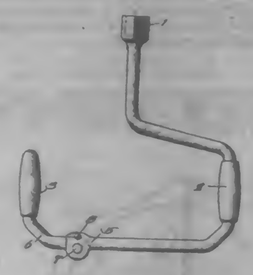
1. A drag attachment for trucks including connected forwardly converging scrapers, crossed means extending upwardly and inwardly from the rear ends of the scrapers for attachment to the tail board of a truck, braces connected to the rear portions of the scrapers and extending toward

each other, means for connecting said means and the braces together, draw chains extending from the scrapers



and pull back chains attached to the front end portions of the scrapers.

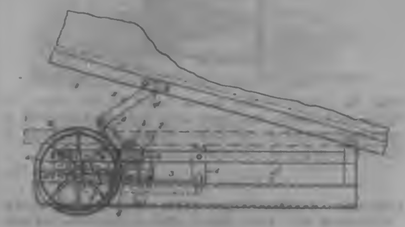
1,401,615. WRENCH. FREDERICK K. LAWRENCE, Chicago, Ill. Filed May 1, 1920. Serial No. 378,070. 8 Claims. (Cl. 81—73.)



1. A wrenching tool having a head adapted to engage the object to be turned, a shank by which the head is carried, a handle mounted on the shank at a distance from the axis of the shank and with its axis parallel thereto, and a second handle secured to the shank by a fixed pivot which constrains it to rotate in the plane in which the axis of the tool and the axis of the first handle lie, the second handle being adapted to rotate about its pivot to two positions, one coincident with the produced axis of the tool, and the other opposite to the first handle and at an equal distance from the axis of the tool.

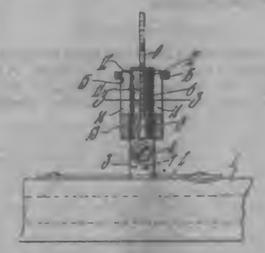
1,401,616. TILTING BODY FOR TRUCKS AND THE LIKE. DARRELL E. LE FORCE, Cleveland, Ohio, assignor to The Truck Engineering Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 17, 1919. Serial No. 277,297. 1 Claim. (Cl. 298—19.)

In a truck, the combination of the main frame of the vehicle comprising side and end frame members, a tilting body pivotally mounted on the end member at the rear of said main frame, a drop-frame support having cross-bars resting on the upper sides of the side frame members, shafts carrying bevel gears journaled in said drop frame bed, operating means and a worm on the other ends of the respective shafts, a worm gear meshing with said worm, a spindle for said worm gear, outwardly inclined crank arms fixed to the ends of said spindle, a vertical housing for said worm gear mounted centrally above said drop frame



and carrying journals for said spindle, said drop frame being of narrow width centrally to permit of the free rotation of said spindle and crank arms, and links connecting the outer ends of the crank arms with the vehicle body at an intermediate point thereof.

1,401,617. ADJUSTABLE REAR SIGHT FOR RIFLES. GEORGE S. LEWIS, Chicopee Falls, Mass., assignor to Page-Lewis Arms Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed May 28, 1921. Serial No. 473,293. 4 Claims. (Cl. 33—57.)



1. A rear sight for rifles comprising a base mounted on the rifle, a sight post secured to said base, a compressible sleeve rotatably mounted on said post, a sight member having a shank vertically movable in said post and arranged to be actuated by said sleeve to different adjusted positions, and means to compress said sleeve to lock the parts in adjusted position.

1,401,618. DOUBLING-MACHINE. EMORY J. LIPPS, Fountain Hill Borough, Pa. Filed Jan. 7, 1921. Serial No. 435,628. 6 Claims. (Cl. 19—25.)

1. In combination, with a pair of supply yarn-packages and the rotated receiving yarn-package of a doubling machine, one supply package being arranged with its axis of winding extending substantially in the direction of draft of the receiving package and so that its yarn will travel around the yarn from the other supply package when said yarns are subjected to said draft, means, controlled by



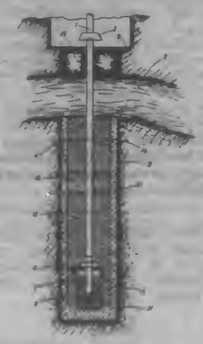
one yarn, to at times check the advance of the other yarn under said draft.

1,401,619. VALVE. ZENO LITTMAN, New York, N. Y., assignor to Littman Loxair Valve Corporation, a Corporation of Delaware. Filed May 24, 1919. Serial No. 299,626. 3 Claims. (Cl. 152—12.)



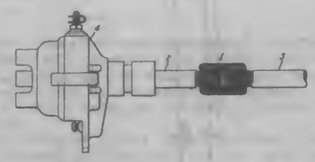
1. A device of the kind described comprising a tubular shell provided internally with a shoulder defining an enlargement of the bore of the shell, a sealing washer seated in the shell against the shoulder and having a central opening therethrough, a valve stem passing through the washer aperture and non-rotative with respect thereto, the stem being out of contact with the edges of the aperture, at certain points, a valve member carried by the stem at one side of the washer and adapted upon movement of the stem to make sealing contact with the washer and to extend beyond the edges of the washer aperture, means for holding the washer in fixed position against the shoulder within the shell, and means engaging the valve stem to move the same and draw the valve member into sealing engagement with the washer.

1,401,620. APPARATUS FOR UNDERGROUND PUMPING. PIERRE LOUBET, Paris, France, assignor to Société: Hue Frères et Loubet, Paris, France, a French Corporation. Filed July 20, 1920. Serial No. 397,744. 3 Claims. (Cl. 166—5.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a sunken well shaft or bore, the combination with a pump, of a filtering means comprising an outside shell of charcoal, a portion of sand filling substantially the lower part of said shell, an intermediate layer of charcoal, and a top filling of sand, a strainer embedded in said lower portion of sand comprising inner and outer perforated shells, an outlet or suction pipe extending downwardly through said shaft or bore and into said strainer and perforations in the lower end of said pipe.

1,401,621. MICROMETER MECHANISM. WARREN P. LOUDON, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 20, 1920. Serial No. 360,080. 9 Claims. (Cl. 64—90.)



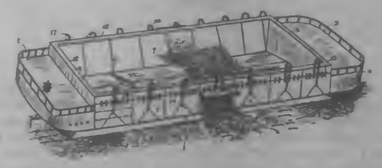
7. In a micrometer mechanism for an ignition device, the combination with a timing shaft having screw threads on an end portion thereof, and a driving shaft alined with said timing shaft and having screw threads on an end portion in the same direction as the threads on the timing shaft, the threads on the timing shaft having a higher pitch than the threads on the driving shaft, of a sleeve member fitted to said threaded end portions and serving to rotatively adjust the position of the timing shaft relative to the driving shaft.

1,401,622. GEAR. JESSE E. MCCLAIN, Edgewood, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed July 10, 1918. Serial No. 244,147. 2 Claims. (Cl. 74—41.)



1. A self-sustaining gear comprising superimposed layers of duck impregnated with a hardened phenolic condensation product having a mixture of graphite and wax uniformly distributed therein.

1,401,623. CARGO VESSEL. HAROLD ROBINSON MCCLELLAND and JOHN MCLEAN, Montreal, Quebec, Canada, assignors to N. E. McClelland & Company, Limited, Montreal, Canada. Filed July 21, 1920. Serial No. 397,985. 4 Claims. (Cl. 114—35.)



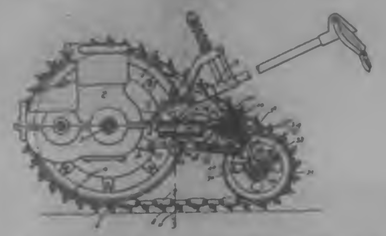
1. A cargo vessel comprising a hull containing a hold and having liftable doors forming the side walls of said hold and supported by intervening buttresses inclosing the lifting tackle and serving as jambs for the doors.

1,401,624. CONCRETE BUILDING-BLOCK. JAMES R. MCEWEN, Goose Creek, Tex. Filed Mar. 30, 1920. Serial No. 369,924. 7 Claims. (Cl. 72—39.)



1. A concrete building block comprising a longitudinal member having a thick central core on the inner side, a flat outer face, inwardly extending flanges at the sides thereof, said flanges having marginal recesses on the outer edges thereof, and marginal grooves along the said edges, said block having a transverse channel at one end and means at both ends to secure said block to an adjacent block above and below the same.

1,401,625. TRACTION-MACHINE. JOSEPH MADER, Minneapolis, Minn., assignor to Bowman Tractor Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Jan. 5, 1920. Serial No. 349,378. 12 Claims. (Cl. 180—9.1.)



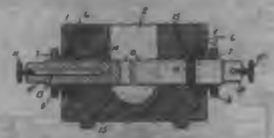
1. A machine of the class described comprising an internal combustion engine, wheels mounted thereon, traction belts for said wheels, a pair of smaller wheels in the rear of said first named wheels and having peripheries to receive said traction belts, means interposed between the frame of the engine and said rear wheels for exerting the desired degree of tension on said belts, means for holding said rear wheels toward the ground and a guiding means for said machine.

1,401,626. FLAG AND FLAG-SUPPORT. JOSEPH MADER, Albany, N. Y. Filed Aug. 13, 1921. Serial No. 492,200. 3 Claims. (Cl. 116—173.)



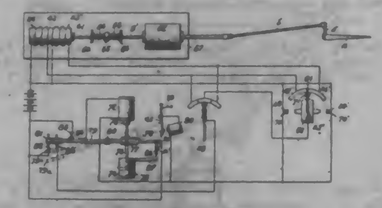
3. The combination with a flag pole having a sheave at its upper end, of a lever, a halyard passing through said sheave and having one end operatively connected to one end of the lever, a stem carried at one end of the lever, a flag attached to said stem, and a halyard connected to the opposite end of the lever from said flag whereby when said lever has been hoisted to the upper end of the flag pole the second named halyard may be retracted to draw the lever into a position parallel to the flag pole with the stem extending upward above the flag pole.

1,401,627. TESTING DEVICE. JESSE E. MATHER and CHESTER T. ALLCUTT, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 1, 1917. Serial No. 189,849. 6 Claims. (Cl. 175—183.)



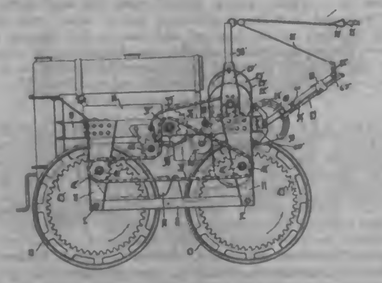
4. A fluid-testing device comprising electrodes and a single means cooperating with one of the electrodes to constitute a terminal therefor and having a gap-adjusting portion for insertion between the electrodes.

1,401,628. HUNTING AUTOMOBILE TORPEDO. ELMER MEITNER, Brooklyn, and ADELBERT C. MARY, Richmond Hill, N. Y., assignors to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation. Filed Feb. 18, 1918. Serial No. 217,795. 16 Claims. (Cl. 114—23.)



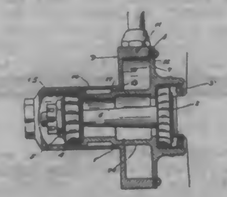
1. In combination, a torpedo, means for steering said torpedo in a substantially straight course, means brought into action after said torpedo has traveled a predetermined distance for changing the course thereof, and means for causing said torpedo to periodically describe a circle along its new course.

1,401,629. FARM-TRACTOR. JOHN M. MEYERS, Janesville, Wis. Filed Nov. 14, 1919. Serial No. 337,947. 16 Claims. (Cl. 74—21.)



1. In a tractor of the class described, a suitable frame; an engine supported by said frame; a shaft driven by said engine; two driving pulleys secured to said shaft and driven thereby; two driven pulleys; a driving shaft upon which one of said driven pulleys is fixedly secured; means whereby and through which said driven pulleys are operated one from and by the other and in opposite directions; a pair of normally loose belts extending about said pairs of driving and driven pulleys; two belt tightening devices one associated with each of said belts and whereby either belt may be tightened independently of the other; two operating members one operatively associated with each of said belt tightening devices; a single pivotally supported manually operable lever adapted to swing in one direction to operate one of said operating members, and to swing in the other direction to operate the other of said operating members; means whereby said lever may be operatively connected with either one of said operating members to thereby operate each independently of the other; a driving wheel; and means whereby said driving wheel is driven from said driving shaft.

1,401,630. WHEEL. FREDERICK L. MINNICK, Spokane, Wash., assignor to Tubular Steel Automobile Wheel Mfg. Co., Spokane, Wash., a Corporation of Washington. Filed Dec. 2, 1920. Serial No. 427,785. 2 Claims. (Cl. 301—9.)



2. In a wheel, the combination of a main hub, an annular face plate rigid with the inner end portion of the main hub and having spaced openings therethrough adjacent its edge, a secondary hub comprising a web fitting closely upon the main hub and a peripheral member extending laterally from said web and abutting the outer side of the face plate, spaced transverse reinforcing ribs on the inner surface of the peripheral member of the secondary hub, lugs projecting from the peripheral member in alinement with said ribs and extending through the openings in the face plate, and a cap nut fitted on the outer end of the main hub and extending inwardly thereover to abut the web of the secondary hub.

1,401,631. PROCESS OF PREPARING DINITRODIPHENYLAMIN. ROBERT CECIL MORAN, Ridley Park, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 5, 1918. Serial No. 265,389. 2 Claims. (Cl. 23—24.)

2. The process of forming dinitrodiphenylamin consisting in combining dinitrohalogenbenzol with anilin and an alkali metal salt of carbonic acid at about 90 to 100° C. in the absence of solvents and added water.

1,401,632. DISPLAY DEVICE. ROBERT M. MOUAT, Leonia, N. J., assignor to Mouat-Swan Corporation. Filed Apr. 27, 1920. Serial No. 376,991. 5 Claims. (Cl. 211—13.)

1. A display device comprising a single flat sheet having its edges cut to form a toe portion and oppositely disposed heel portions and having an intermediate instep portion decorated to simulate the corresponding portion of a stocking, the said sheet being sufficiently stiff to

form the semblance of a stockinged instep when the toe and heel portions of the shoe are brought within the



corresponding portions of a shoe but without being stiff enough to scratch said shoe.

1,401,633. PRINTING-PLATE AND MATRIX. EMIL E. NOVOTNY, Philadelphia, Pa., assignor to John Stogdell Stokes, Philadelphia, Pa. Filed Mar. 15, 1920. Serial No. 366,098. 10 Claims. (Cl. 101—395.)



1. As a new article of manufacture, a printing plate having a printing face of a hard acetic aldehyde condensation product.

1,401,634. MOUTHPIECE FOR MUSICAL INSTRUMENTS. HARRY E. O'BRIEN, Indianapolis, Ind., assignor of one-half to H. Benne Henton, Philadelphia, Pa. Filed Nov. 29, 1920. Serial No. 427,070. 5 Claims. (Cl. 84—383.)



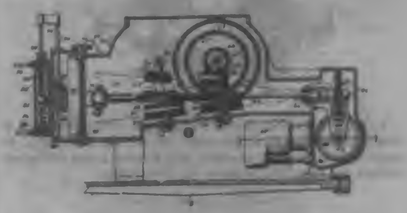
1. A mouthpiece for musical instruments comprising a vulcanized rubber body, a metallic facing plate formed with projections on its edges, said body being molded about said plate, the body overlying said projections for securing the plate thereon.

1,401,635. CORN-CREAMER. WALTER OLCOTT, South Manchester, Conn. Filed Sept. 14, 1921. Serial No. 500,614. 2 Claims. (Cl. 146—7.)



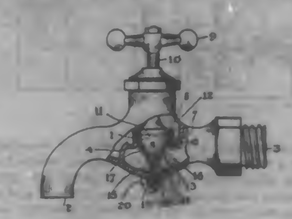
1. An implement of the class described comprising a handle, and a blade member connected with the handle, having transverse slits and a longitudinal slit connecting the transverse slits, the stock formed by the slitting of the blade member being bent therefrom to present a cutting blade, the blade member back of the cutting blade having a scraping portion.

1,401,636. CHANGE-SPEED AND REVERSING GEARING. WILLIAM BYRON ORIN, Grand Rapids, Mich. Filed June 25, 1920. Serial No. 391,736. 13 Claims. (Cl. 74—59.)



1. In an organization of the character described; rotatable driven elements arranged side by side on axes laterally offset intermediately; a single laterally-movably-mounted rotatable driving element arranged at the same side of the axes of all said driven elements and adapted to be moved laterally into and out of driving engagement with said driven elements severally.

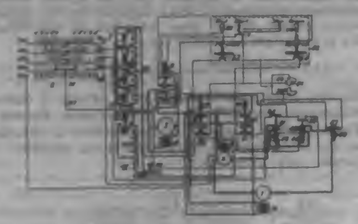
1,401,637. VALVE. GEORGE PARKINSON and JOHN DAVIDSON, Calgary, Alberta, Canada. Filed Aug. 28, 1920. Serial No. 406,656. 1 Claim. (Cl. 251—167.)



A faucet comprising a valve casing having a partition therewithin between inlet and outlet and an orifice in said partition surrounded by a flange having a bottom seat, a double faced removable intermediate seat in the form of a washer and a double faced top seat having a V-shaped bar lower extension and a screw hole at the juncture of the legs of said bar, a bolt having a cross slotted and under beveled head fitting to the slope of said legs and a washer and closed nut secured on the end of said bolt projecting below the valve casing.

1,401,638. MOTOR-CONTROL SYSTEM. FRED M. PARKS, Murrysville, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 13, 1920. Serial No. 358,357. 8 Claims. (Cl. 172—179.)

1. A control system comprising a dynamo-electric machine adapted to operate as a generator; a field-magnet winding for said dynamo-electric machine, a resistor connected in circuit with said winding, a second dynamo-electric machine connected in circuit with said first machine and normally adapted to operate as a motor, a relay responsive to a predetermined value of current traversing the circuit for said second dynamo-electric machine for reducing the field excitation of said first dynamo-electric machine, and a second relay adapted to increase the field excitation of said first dynamo-electric



machine when said second dynamo-electric machine operates as a generator.

1,401,639. INVALID-TABLE. JOHN PERLON, Salem, Mass. Filed Jan. 31, 1921. Serial No. 441,376. 9 Claims. (Cl. 45—11.)



1. In a table structure, a body, and foldable legs, said legs being adapted to fold into engagement with each other to form complementary handle members whereby to provide handle means for carrying said table.

4. A table comprising a body, legs at opposite ends of the body, a leaf at one side thereof, and an adjustable leaf support carried by one leg and in engagement with another of said legs for maintaining the suport in adjusted position.

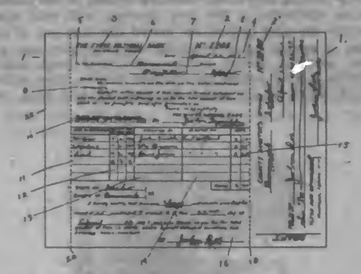
1,401,640. COASTER WAGON AND SLED. WILLIAM K. PORTER, Pittsburgh, Pa. Filed June 30, 1920. Serial No. 392,984. 4 Claims. (Cl. 280—87.5.)



1. In a vehicle, the combination with a lower frame, of a superposed body member, springs between the frame and body member, and arched brace members connected to one of the members and having a sliding connection with the other member to hold the body member against lateral displacement.

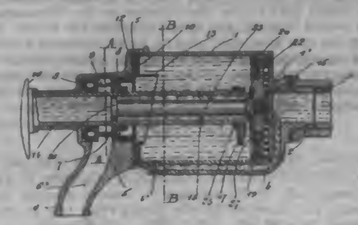
1,401,641. COMMERCIAL FORM. JOSEPH PRIMBS, Pocatello, Idaho, assignor to Geo. Primbs & Sons, Inc., Pocatello, Idaho. Filed June 7, 1921. Serial No. 475,644. 5 Claims. (Cl. 283—1.)

1. A blank form to be used in transmitting instruments to be recorded, comprising a letter of transmission, with blank spaces to be filled in with the date and location of the official to whom sent, delineated and appropriately designated spaces for entering the kind of instruments transmitted, their date, by whom executed, in favor of



whom executed and fees charged, a certificate to be filled in with data certifying as to the number of instruments filed, the time when filed for record and the date of filing and a draft to be filled out by the receiving official upon the sender.

1,401,642. SUPPLY-COCK FOR THE DELIVERY OF MEASURED QUANTITIES OF LIQUID. ETIENNE RAVAZ and AIME PILLON, Oullins, France. Filed June 7, 1918. Serial No. 238,715. 2 Claims. (Cl. 137—93.)

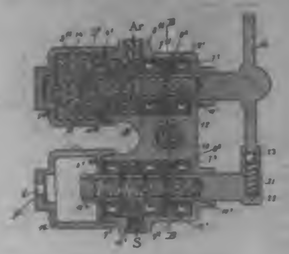


1. A device for delivering measured quantities of liquid comprising a body, a heading fixed at one end of said body, a stopper comprising a chamber at the other end of said body, an extension on said stopper in communication with said chamber, and forming an outlet for the liquid, a tubular extension from said chamber coaxial with said body and forming a guide, a slidable and rotatable hollow rod extending through said guide into said body, said rod having a series of circumferentially arranged orifices adapted to communicate with said chamber when the rod is in a certain position, a piston provided with a transverse channel within said body, a piston rod extending from said piston into said hollow rod, means for guiding said piston rod in said hollow rod, a valve seat on said piston coacting with the inner end of said hollow rod, a spiral spring between the rear face of said piston and said heading, a conduit for supplying liquid to said body in front of said piston, a cylindrical member having an inclined surface on said stopper and projecting into said body, and a laterally projecting member at one extremity of said hollow rod adapted to slide over said inclined surface when said rod is pulled out and rotated.

1,401,643. VALVE. ETIENNE RAVAZ and AIME PILLON, Oullins, France. Filed Aug. 27, 1919. Serial No. 320,157.) 2 Claims. (Cl. 277—12.)

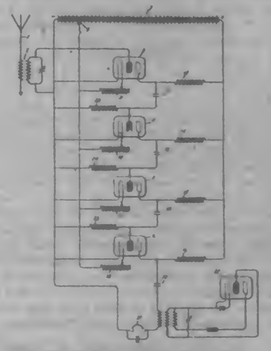
1. In a valve the combination of a housing having an inlet port and an outlet port, a hollow cylindrical plug slidable and rotatable in said housing and having orifices spaced apart in the axial direction of the plug, two per-

forated rings surrounding said plug, each having two flanges seated against the plug and the housing and each ring straddling one of said ports with its flanges, washers surrounding said plug adjacent said rings, means for axially moving said plug, including a ramp in the housing and an abutment on the plug reacting with said ramp, whereby the plug orifices are moved into and out of said rings, a second housing having an inlet port and two other ports, a second hollow cylindrical plug, axially movable in said second housing and having three orifices spaced apart in the axial direction of said plug, two



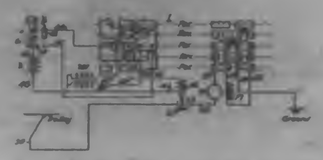
perforated rings surrounding said second plug each having a pair of flanges seated against the plug and the housing, said pairs of flanges straddling the inlet port and one of said other ports respectively, washers surrounding the second plug adjacent said rings, a chamber connecting the outlet port of the first housing to the inlet port of the second housing, and means coupling the second plug with the first-mentioned plug for axial movement whereby said second plug alternatively opens communication between the inlet port of the second housing and one of the other ports of said housing, or between the last-mentioned port and the third port of said housing.

1,401,644. METHOD OF AND APPARATUS FOR AMPLIFICATION OF SMALL CURRENTS. CHESTER W. RICE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 31, 1917. Serial No. 183,785. 12 Claims. (Cl. 250—20.)



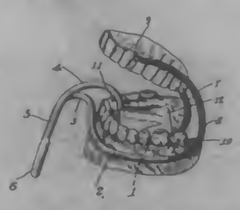
5. The method of eliminating the effect of strays upon a radio receiving system which consists in applying the received impulses to the grid circuit of an electron discharge amplifier having its operating characteristic so adjusted that the current changes therethrough produced by stray impulses in one direction cannot exceed those produced by the signals which it is desired to receive, and applying the amplified impulses to the grid circuit of a second electron discharge amplifier having its operating characteristic so adjusted that the current changes therethrough produced by stray impulses in the opposite direction cannot exceed those produced by the signals which it is desired to receive.

1,401,645. CONTROL APPARATUS. LYNN G. RILEY, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 19, 1917. Serial No. 174,916. 11 Claims. (Cl. 172—179.)



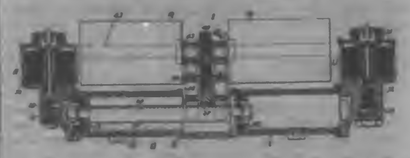
1. The combination with a rotatable motor-reversing drum, of a fluid-pressure-operated device for actuating said drum in a step-by-step manner in the same direction to reverse the motor connections with each step, controlling means for said device, and means dependent upon the position of said drum for governing said controlling means.

1,401,646. SALIVA-EJECTOR FOR USE IN DENTAL TREATMENT AND THE LIKE. JENS AARBEG RONN, Kolding, Jutland, Denmark, assignor, by direct and mesne assignments, to Enita R. Pinches, London, England. Filed Apr. 24, 1920. Serial No. 376,426. 3 Claims. (Cl. 32—33.)



1. A saliva ejector comprising a perforated lingual tube, a perforated combined malar and labial tube, siphons connecting said tubes to a common discharge tube, and resilient means for retaining the rear portions of said tubes in position in the mouth.

1,401,647. CONTROL APPARATUS. EDWARD E. ROSE, Swissvale, and CHARLES A. SMITH, Edgewood Park, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 6, 1919. Serial No. 328,823. 16 Claims. (Cl. 200—18.)



1. In a controller, the combination with a movable control member, of a power-operated actuating apparatus

therefor having a direction of movement transverse to the plane of rotation of said member, and power-transmitting means interposed between said apparatus and said member and comprising a plurality of elements arranged in side-by-side relation.

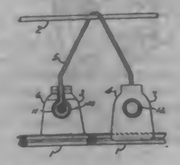
1,401,648. PROCESS OF PRODUCING POTASH CONTAINING FERTILIZERS. CARLO ROSSI, Legnano, Italy. Filed Apr. 24, 1919. Serial No. 292,486. 5 Claims. (Cl. 71—9.)

5. The process of preparing valuable products from potassiferous minerals which comprises subjecting a mixture of such a mineral and an alkaline earth carbid, in the presence of nitrogen, to a temperature sufficiently high to effect fixation of nitrogen and production of compounds containing potash values in form available as plant food.

1,401,649. PROCESS OF PRODUCTION OF POTASH-CONTAINING FERTILIZERS. CARLO ROSSI, Legnano, Italy. Original application filed Apr. 24, 1919, Serial No. 292,486. Divided and this application filed July 15, 1921. Serial No. 485,034. 1 Claim. (Cl. 71—9.)

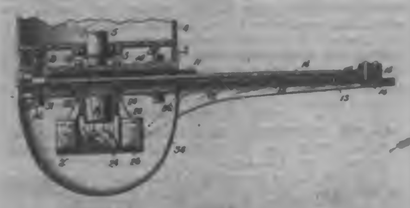
The process of preparing valuable products from potassiferous minerals (leucite, volcanic ash, feldspar, orthoclase, granite, etc.) which comprises subjecting a mixture of such a mineral with calcium carbid to a reacting temperature in the presence of nitrogen, said temperature being below the volatilizing temperature of the potash values, and thereby obtaining a complex fertilizer which is both potassiferous and nitrogenous.

1,401,650. TROLLEY-HANGER. WILLIAM SCHAAKE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 7, 1917. Serial No. 167,099. 9 Claims. (Cl. 191—40.)



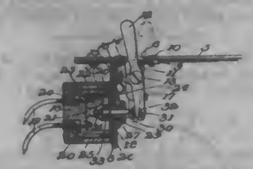
1. The combination with a plurality of parallel conductors, of a single hanger structure therefor comprising means coöperating with the conductors at positions offset along the conductors.

1,401,651. FLUID-CURRENT MOTOR. HERMAN J. SCHARNAGEL, Tompkinsville, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed June 26, 1918. Serial No. 242,087. 21 Claims. (Cl. 170—68.)



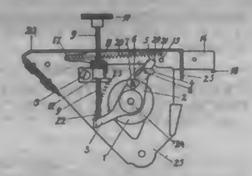
21. A fluid current motor comprising a hub member, a pair of blades rotatably secured to said hub, a centrifugally operated arm secured to each blade for turning the same oppositely, gearing connecting said blades for equal and opposite turning, and a combined torsion and tension wire secured near one end to a point on the blade and near its other end to said hub member.

1,401,652. ELECTRIC SWITCH FOR PHONOGRAPHS. JOHN J. SCULLY, Bridgeport, Conn., assignor, by mesne assignments, to Columbia Graphophone Manufacturing Company, Bridgeport, Conn., a Corporation of Delaware. Filed Nov. 27, 1917. Serial No. 204,238. 12 Claims. (Cl. 200—163.)



1. In an electric switch, electric terminals, a reciprocating member for opening and closing the circuit through said terminals, a pivoted member connected to said reciprocating member for moving said last-named member to open and close said circuit, a projection on said pivoted member and a curved spring coöperating with said projection to retain said switch members in open and closed positions.

1,401,653. DEVICE TO GRADUATE THE DISTANCE OF THE LINES OF TYPEWRITING-MACHINES, SPECIALLY FOR WRITING ON RULED PAPER. BARNETT SHATZ, Buenos Aires, Argentina. Filed Apr. 10, 1920. Serial No. 372,940. 4 Claims. (Cl. 97—114.)

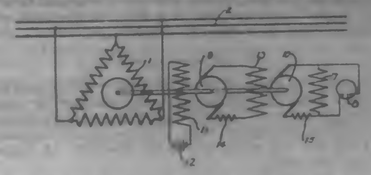


1. In a type-writer, the combination with a platen roller and its spindle, of a toothed wheel fixed to said spindle, a bell-crank lever loosely mounted on said spindle and provided with a pawl designed to engage the teeth of said wheel, means for normally maintaining said pawl out of engagement with the teeth of said wheel, a push-rod having a pin engageable with said pawl to cause the pawl to grip the teeth of the wheel and to turn the wheel and platen roller when the push-rod is operated, and an adjustable screw engageable with the bell-crank lever for limiting the oscillating movement of said bell-crank lever in one direction.

1,401,654. MEASURING SYSTEM. FRANCIS H. SHEPARD, New Rochelle, N. Y., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 10, 1918. Serial No. 244,208. 11 Claims. (Cl. 175—368.)

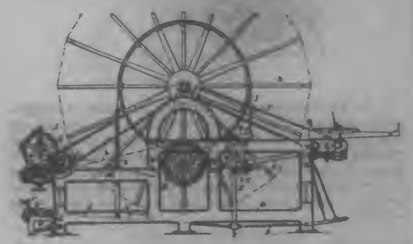
1. In an alternating-current electric circuit, the combination with a motor operatively connected to the circuit, of a plurality of direct-current generators mechanically connected to the motor and having the field winding of

each generator connected across the armature of the preceding generator, means for energizing the said winding



of the first generator and means for indicating the variation in current generated by the last generator.

1,401,655. WARPING AND BEAMING MACHINE. GRANT SIPP, Paterson, N. J. Filed Apr. 9, 1917. Serial No. 160,627. 5 Claims. (Cl. 139—83.)



1. In a machine of the class described having a rotary member whose rotation is to be resisted, the combination of a supporting structure and mechanism therein to resist rotation of said member including a brake device to frictionally contact with said member and means to resist movement of said device with said member due to friction between them including a flexible elastic lever structure; said supporting structure having means to support said member with its axis parallel with the fulcrum of said lever structure.

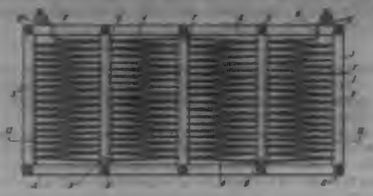
1,401,656. RAIL-SUPPORT. LEWIS STUNKEL, Peck, Kans. Filed Mar. 31, 1921. Serial No. 457,225. 2 Claims. (Cl. 238—169.)



1. A device of the class described comprising spaced truss bars each comprising a base and an upstanding wing, and a rail saddle extending between the said bars and secured to the bases of the same at opposite sides of the said wings, the said saddle being provided upon its upper side with upstanding ribs abutting the relatively adjacent edges of the bases of the truss bars which are secured thereto.

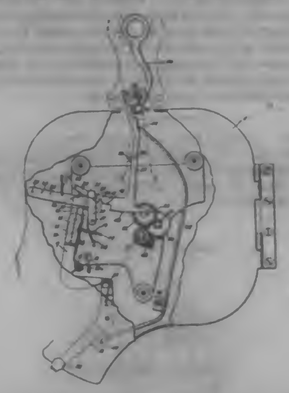
1,401,657. ELECTRIC HEATING UNIT. FRANK THORNTON, Jr., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 2, 1918. Serial No. 264,936. 4 Claims. (Cl. 219—70.)

1. An electric heating unit comprising a helically wound coil having flat substantially parallel sides and rounded edge portions and a relatively narrow insulating support therefor engaging said rounded portions externally, the



coils being otherwise open to permit of a free circulation of air.

1,401,658. AUTOMATIC STOP FOR PHONOGRAPHS. JOHN Z. TOW, Springfield, Tenn., assignor of one-third to Mordaunt Patterson and one-third to Samuel R. Murphey, Springfield, Tenn. Filed Oct. 21, 1920. Serial No. 418,345. 9 Claims. (Cl. 192—116.)



1. In automatic stop mechanism for sound reproduction apparatus, in combination with a tone arm and an element for rotating a record turn table, a trip member, means actuated through swinging movement of the tone arm for urging the said trip member in one direction, means actuated through the rotation of the turn table element for moving the trip member in another direction, a brake member, means urging the same to active position, a restraining member for coaction with the brake member to hold the said brake member in inactive position, means tending to render the restraining member inactive, means operable to move the brake member to inactive position, means associated with the trip member for moving the restraining member to active position when the trip member is moved in the first mentioned direction, a detent for holding the restraining member in active position, and means actuated through movement of the trip member in the other direction for rendering the detent inactive.

1,401,659. GEARING. JESSE LORNE WARD, Hutchinson, Kans. Filed Apr. 23, 1920. Serial No. 376,049. 17 Claims. (Cl. 74—34.)

1. In a device of the character described, a driven shaft having an axial bore in one end, said driven shaft having its extreme end portion surrounding said axial bore formed to constitute a clutch member, a drive shaft having one end slidably and rotatably mounted in the axial bore of said driven shaft, a clutch member carried by said drive

shaft and engageable with the clutch member of the driven shaft to directly connect the drive shaft and the driven shaft and communicate the motion of the drive shaft unchanged to the driven shaft, a carrier loosely mounted upon said drive shaft, a plurality of sets of gears arranged upon said carrier and driven from said drive



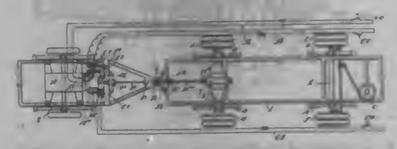
shaft, a stationary internal gear with which the sets of gears are adapted to be selectively engaged to constrain the carrier to rotation, a key carried by the driven shaft and a sleeve secured to the carrier and having a keyway slidably receiving said key to communicate the motion of the carrier to the driven shaft, all as and for the purposes set forth.

1,401,660. POCKET ATTACHMENT FOR VEHICLES. JAMES M. WHITE, Danville, Va. Filed Apr. 12, 1921. Serial No. 460,785. 7 Claims. (Cl. 224—20.)



1. A pocket attachment for vehicles of the type described, comprising a wire frame structure composed of a relatively stationary frame and a relatively movable frame connected thereto, the sides of the latter frame being bent intermediate their lengths in such manner as to position the movable frame in offstanding relation to the stationary frame, and covering material inclosing said frames.

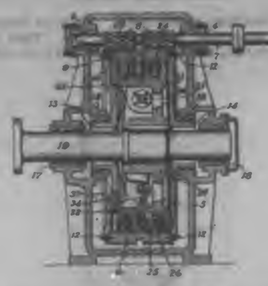
1,401,661. MOTOR-VEHICLE, TRAILED POWER. HOWARD WILCOX, Woodstock, N. Y. Filed Jan. 28, 1920. Serial No. 354,684. 5 Claims. (Cl. 180—11.)



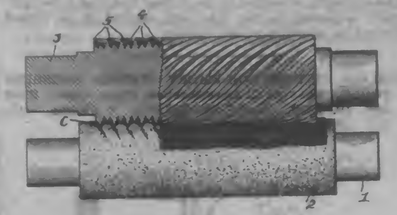
1. A motor driven vehicle comprising a main load carrying vehicle and a trailed vehicle, a unit power plant carried on the trailed vehicle and means whereby the entire power from said unit power plant on the trailing vehicle may be utilized for driving the wheels of the main vehicle through shafting connected to the differential of the main vehicle.

1,401,662. GEARING. JAMES WILKINSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 9, 1919. Serial No. 329,493. 5 Claims. (Cl. 74—7.)

1. In combination, a casing, a gear wheel located in the casing, said gear wheel comprising a rim and side plates, hollow shaft means for supporting said gear wheel carried by said side plates, separate bearings in the casing for said shaft means, a shaft which extends through said hollow shaft means, bearings in the casing for said shaft, and yieldable coupling means located between said side plates and connecting said shaft to said gear wheel.

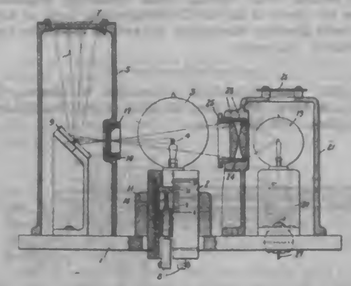


1,401,663. CLOTH-FINISHING. GUSTAV WOLF, East Providence, R. I. Filed Aug. 2, 1921. Serial No. 489,229. 6 Claims. (Cl. 26—2.)



1. In a cloth finishing device, a lower roll having a felt covering, and an upper roll having metallic teeth of spiral form and arranged to be of alternating depths, whereby to provide a three point contact with the cloth.

1,401,664. OPTICAL CHECKING APPARATUS. RALPH BEMAN, Cleveland, Ohio, assignor to General Electric Company, a Corporation of New York. Filed Jan. 23, 1917. Serial No. 144,042. 4 Claims. (Cl. 88—24.)



2. An apparatus comprising a receptacle for a lamp, a lens system, an auxiliary source of light in alinement with the filament of the lamp and in the optical axis of the

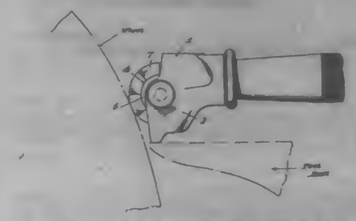
system and a screen in a position to receive an image of the filament of the lamp, said receptacle being provided with an adjustable socket for receiving said lamp.

1,401,665. SHOEMAKER'S TOOL. WILLIAM REEDER and CHARLES BLASCHKE, Schoolcraft, Tex. Filed July 9, 1921. Serial No. 483,344. 2 Claims. (Cl. 12—42.)



2. In a shoemakers' tool, the combination of a base, a heel-retaining member formed integral therewith, a lever fulcrumed to the member and having one forked end, a yoke pivotally connected to the forked end, and a tool pivotally connected to the yoke and adapted to be guided through an aperture in the member.

1,401,666. CUTTER FOR EMERY WHEEL-DRESSING TOOLS. FRANCIS C. BRAUNEWELL, Piqua, Ohio. Filed Apr. 10, 1919. Serial No. 288,885. 5 Claims. (Cl. 125—37.)



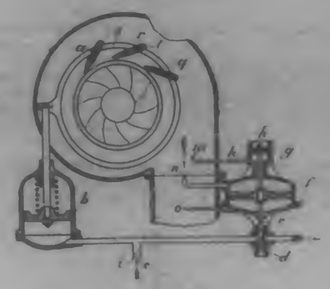
1. A cutter for a dressing tool comprising an assemblage of cutter units, each having a peripheral series of teeth having their cutting edges extending diagonally across the plane of the unit, corresponding teeth of adjacent units abutting throughout the area of their side faces throughout the series.

1,401,667. MACHINE-GUN. CHARLES W. BROWN, Indianola, Iowa. Filed Aug. 22, 1918. Serial No. 251,000. 7 Claims. (Cl. 89—2.)



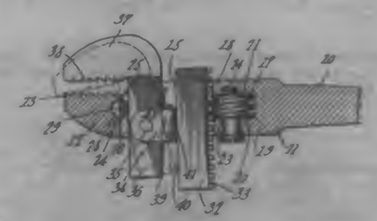
1. In a device of the class described, a gun embodying a movable breech block; a remote source of ammunition supply including a rotary feeding means; a conduit leading from said source to the gun; a shaft journaled in the conduit; means for operatively connecting the shaft with the feeding means; and mechanism for operatively connecting the shaft with the block.

1,401,668. METHOD AND APPARATUS FOR REGULATING CENTRIFUGAL COMPRESSORS. ERIC BROWN, Baden, and ALFRED CASSANI, Ennetbaden, Switzerland, assignors to Aktiengesellschaft Brown, Boveri and Cie., Baden, Switzerland. Filed Jan. 20, 1920. Serial No. 354,256. 2 Claims. (Cl. 230—11.)



1. A regulator for a centrifugal compressor of the type regulated by adjustable guide blades, including a cylinder and piston mechanism for adjusting said guide blades, and automatic means for operating said piston in said cylinder, said means being energized simultaneously by both the pressure and the volume of the fluid delivered by said compressor.

1,401,669. COMBINATION PIPE-WRENCH. FREDRICK F. CALHOUN, Tumwater, Wash. Filed Apr. 8, 1920. Serial No. 372,209. 4 Claims. (Cl. 81—165.)



1. A wrench of the class described comprising a handle having a shank portion and a jaw in alinement with the handle, said shank having a slot therethrough at right angles to the face of said jaw, a movable jaw having a shank at right angles with respect thereto and extending through said slot, a block pivotally supporting said shank of the movable jaw whereby the latter may move in angular relation to the first-mentioned jaw, said block being engaged in the slot, spring means carried by said block and urging the movable jaw in angular relation to the stationary jaw, means carried by the stationary jaw for holding the movable jaw in spaced parallel relation to the stationary jaw, and rotatable means carried by the shank of the stationary jaw and operatively engaged with said block at one side of the latter for adjusting the latter in the slot.

1,401,670. SPARK-PLUG. PUEVA V. CARPENTER, Worth, N. C. Continuation in part of application Serial No. 254,410, filed Sept. 17, 1918. This application filed June 17, 1919. Serial No. 304,769. 2 Claims. (Cl. 123—169.)



1. A plug of the character described comprising a casing body having a terminal end threaded for engagement in a cylinder head or the like, a diagonal valved passage and a concentric passage therein, a porcelain slidably engageable in and secured in the last named passage, electrodes at the inner part of the plug, one being mounted in the porcelain on the axis of the plug, and located with their opposed surfaces equally spaced from and closely adjacent the medial line of said passage, said porcelain stopping short of the end of the diagonal passage, one of said electrodes being resilient and laterally movable, whereby a file device inserted through said passage may be reciprocated between the points to clean them as described.

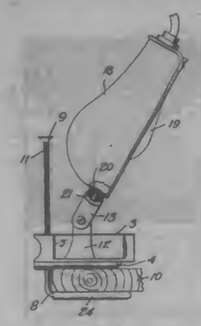
1,401,671. EMERGENCY SOURCE OF VOLTAGE. LEWIS WARRINGTON CHUBB, Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 14, 1918. Serial No. 266,745. 15 Claims. (Cl. 204—29.)



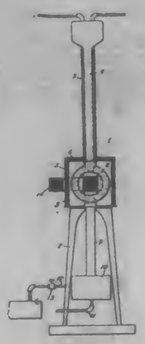
1. A voltage-generating means, containing deliquescent material, that is active only upon exposure to a moisture-containing fluid.

1,401,672. PORTABLE ELECTRIC-LAMP BRACKET. MARTIN CLAUSSEN, San Francisco, and GUSTAVE H. BRADT, Oakland, Calif., assignors, by mesne assignments, to Wizard Electric Lamp Company, a Corporation of Massachusetts. Filed Dec. 9, 1919. Serial No. 343,686. 4 Claims. (Cl. 240—52.)

1. A portable bracket for an electric lamp, comprising a base having resilient means whereby it may be clamped to a support, a reflector connected to the base so as to tilt on a horizontal axis and to rotate on an axis perpendicular thereto, and means on the reflector for detachably clamping an applied light bulb.



1,401,673. INDUCTION-HEATER. ORA A. COLBY, Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 25, 1919. Serial No. 279,157. 3 Claims. (Cl. 219—47.)



1. In an induction liquid heater, the combination with a metallic container for storing the liquid, of a laminated core, a primary coil on said core, a metallic tube wound around said core and forming a passage for the liquid to be heated and means for electrically connecting said tube to said container.

1,401,674. ELECTRIC GLASS-ANNEALING FURNACE. ORA A. COLBY, Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 7, 1920. Serial No. 372,019. 4 Claims. (Cl. 204—64.)

1. In an electric furnace, the combination with a chamber, of a pair of resistor blocks of solid refractory electrical-conducting material constituting the top and bottom walls of said chamber, the adjacent faces of said blocks being slightly divergent outwardly, means for

holding said blocks in their operative positions, means for conducting current to and from said resistor blocks, and a cover member for said chamber having a central opening for the insertion of material to be heated.



1,401,675. DOUCHE. DANIEL RICHARD COOPER, Gore, New Zealand, assignor of one-half to Charles William Anderson and Florence Louisa Howorth, Wellington, New Zealand. Filed May 4, 1920. Serial No. 379,926. 4 Claims. (Cl. 128—240.)



1. In apparatus of the kind and for the purpose described, a head or nozzle, downward sloping ridges arranged in parallel planes upon the upper part of the said head or nozzle, upward sloping ridges arranged in parallel planes upon the lower part of said nozzle and liquid emission holes leading preferably to the sloping sides of said ridges, substantially as described.

1,401,676. STORAGE BATTERY. HENRY CRAWFORD, New York, N. Y. Filed May 12, 1919. Serial No. 296,576. 6 Claims. (Cl. 204—29.)

1. In a battery, an electrode comprising a core-like member and an inclosure surrounding and attached to said electrode, the ends of the electrode extending beyond said inclosure; the electrode and the inclosure defining therebetween an annular space in which is contained a depolarizing medium.



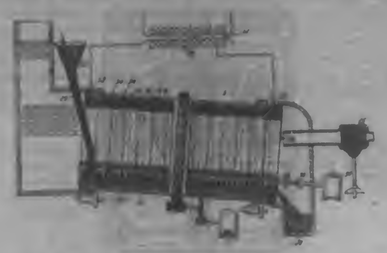
1,401,677. PROTECTIVE SUIT. JESSE E. DADE, Littlefork, Minn., assignor to Universal Safety Suit Co., Inc., Minneapolis, Minn., a Corporation of Minnesota. Filed Dec. 10, 1917. Serial No. 206,481. Renewed May 17, 1921. Serial No. 470,325. 15 Claims. (Cl. 9—20.)



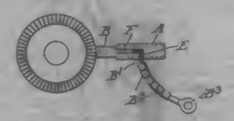
1. In a life saving suit of the character described, having an opening adapted to be closed above the head of a wearer, a draw-string near the edge of said opening and operable to close the same, and stiffening means for the suit fabric adjacent said draw string.

1,401,678. APPARATUS FOR NITROGEN FIXATION. FRANKLIN DARLINGTON, New York, N. Y., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 22, 1917. Serial No. 203,339. 18 Claims. (Cl. 204—31.)

1. In a furnace for the carrying out of a chemical reaction involving the action of a catalytic agent upon a mass of material, a mixing device for said material formed in part at least, from said catalytic agent, whereby substantially all portions of said mass are periodically subjected to the action of said catalytic agent.

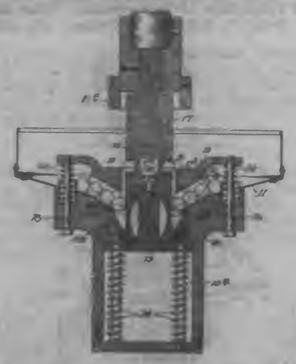


1,401,679. BRUSH-HOLDER. DUDLEY F. DILLIN, North Canton, Ohio, assignor to The Hoover Suction Sweeper Company, New Berlin, Ohio, a Corporation of Ohio. Filed Feb. 11, 1920. Serial No. 357,845. 12 Claims. (Cl. 171—324.)



3. A brush holder comprising a hollow shell two slots through the wall of said shell spaced apart from each other and extending, one toward one end of said shell and the other toward the other and a third slot connecting them in combination with a brush adapted to enter the open end and a pigtail attached to said brush and adapted to project through any of said slots.

1,401,680. MACHINE FOR FILLING BALL-RETAINERS. JOHN DEREK, Berwyn, Ill., assignor to U. S. Ball Bearing Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed May 10, 1920. Serial No. 380,296. 9 Claims. (Cl. 29—84.)



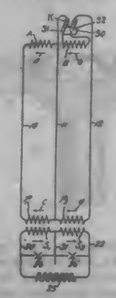
9. In a machine for filling ball retainers, means for holding a ball retainer having radial openings for the balls, means for feeding balls to said openings and means operable by movement of said retainer for forcing a ball into each of said openings simultaneously.

1,401,681. DEEP-WELL PUMP. ROBERT M. DOWNIE, Beaver Falls, Pa., assignor to Keystone Driller Company, Beaver Falls, Pa., a Corporation of Pennsylvania. Filed Nov. 22, 1919. Serial No. 339,864. 10 Claims. (Cl. 103—54.)



1. A deep well piston lift pump having a pump barrel, an air cushion chamber, and an air inlet pipe entering the pump below the pump barrel, whereby to furnish the pump with air in order to cushion hammering and to maintain a continuous air supply in the air chamber.

1,401,682. ELECTRICAL DISTRIBUTING SYSTEM. GIUSEPPE FACCIOLI, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Nov. 26, 1920. Serial No. 426,360. 6 Claims. (Cl. 171—97.)

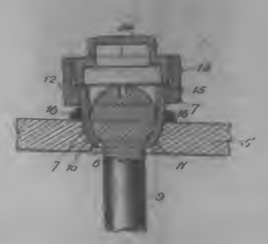


3. In an electrical distributing system, the combination with two main transformers, of two supply transformers fed therefrom and having one feeder in common, loads connected across the supply transformers individually, another load having a characteristic different from the first, said load connected across said supply transformers in series, and a switching device for reversing the polarity of a main transformer with respect to its feeders whereby the E. M. F.'s of the supply transformers across the second named load may be in series or bucking relation.

4. In an electrical distributing system, the combination with two main transformers, of two supply transformers fed therefrom and having one feeder in common,

loads connected across the supply transformers individually, another load having a characteristic different from the first said load connected across said supply transformers in series, and a double throw switch for reversing the polarity of a main transformer with respect to its feeders.

1,401,683. STAYBOLT STRUCTURE. JOHN ROGERS FLANNERY, Pittsburgh, Pa., and ETHAN I. DODDS, Central Valley, N. Y., assignors to Flannery Bolt Company, Pittsburgh, Pa. Filed Jan. 27, 1921. Serial No. 440,422. 6 Claims. (Cl. 85—1.5.)



1. In a stay bolt structure, the combination of a bearing member for the head of a stay bolt, the said member having an internal seat for the head of a bolt and outwardly tapering at its upper end, a ring having an internally tapered lower end to conform to the taper on the bearing member, the said ring being threaded at its upper end, and a cap secured to the ring and forming a cover for the bearing member.

1,401,684. STAYBOLT STRUCTURE. JOHN ROGERS FLANNERY, Pittsburgh, Pa., and ETHAN I. DODDS, Central Valley, N. Y., assignors to Flannery Bolt Company, Pittsburgh, Pa. Filed Feb. 10, 1921. Serial No. 445,454. 4 Claims. (Cl. 85—1.5.)



4. In stay bolt construction, the combination of an outer sheet having a stay bolt opening widest at its outer side, a bolt bearing member seated in said opening, a built up welded wall over the outer end of said bearing member the said built up wall and outer end of the bearing member being threaded and a screw cap engaging the threads in said parts and having a flange overlapping the built up wall to form a steam tight joint.

1,401,685. PROTECTIVE DEVICE. PAUL R. FORTEN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 21, 1919. Serial No. 332,167. 13 Claims. (Cl. 175—294.)

1. In a relay, the combination with a movable circuit controlling member of means normally exerting balanced restraining forces on the ends of said member to hold the same against movement, and means cooperating with said member intermediate the ends thereof operative in response to a predetermined unbalancing of the forces ex-



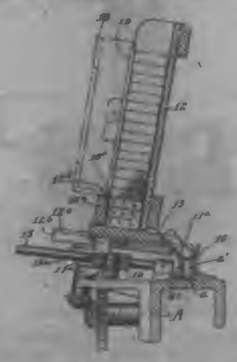
erted on the ends of said member to move the same into circuit controlling position.

1,401,686. ELECTRIC HEATING DEVICE FOR PLUNGING. FRITZ FIRT, Berne, Switzerland. Filed Oct. 16, 1920. Serial No. 417,484. 7 Claims. (Cl. 219—41.)



1. In an electric heating device, a double walled body member, and an electrical resistance element coiled between the walls of the body member and having the convolutions thereof arranged substantially concentric with the axis of the body member.

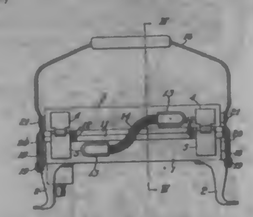
1,401,687. CHARGE FORMING AND POSITIONING APPARATUS. MATHIAS FOGOS and LAWRENCE P. SOUTHWICK, Richmond, Va., assignors, by mesne assignments, to Stokes & Smith Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 23, 1919. Serial No. 299,298. 16 Claims. (Cl. 198—24.)



1. As a means for forming and positioning a charge consisting of a plurality of similar units relative to a

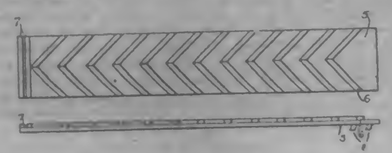
charge presenting mechanism, a reservoir for the charge units and having a bottom on which the face of the charge is seated, a trough for receiving the charge, said trough having an element of the presenting mechanism as its bottom, and means for delivering the charge from the reservoir to a position within the trough, and with a charge face seated on the presenting element, said means being operative to temporarily render the charge subject to gravitation to place a different face of the charge as the seated face.

1,401,688. ELECTRIC WAFFLE-IRON. FRANK F. FORSYTHE, Flint, Mich., assignor to Westinghouse Electric Products Company, a Corporation of Michigan. Filed Jan. 30, 1920. Serial No. 355,073. 21 Claims. (Cl. 219—19.)



1. In an electrically heated apparatus, the combination with a lower casing and an upper casing pivotally mounted on the lower casing, of a handle member directly mounted on the lower casing for carrying both casings, and means responsive to movements of the handle member for moving the upper casing relatively to the lower casing.

1,401,689. TRACTION-SUPPORT. BURNEY C. GENTRY, Freeport, Tex. Filed July 25, 1921. Serial No. 487,438. 3 Claims. (Cl. 238—14.)



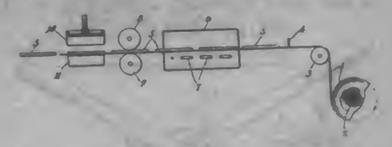
1. In a device of the character described, a board having inclined cleats on its upper surface, all of said inclined cleats being arranged in V-shape with the apices rearward, and rearwardly inclined cleats on the under side of said board adjacent the forward end thereof.

1,401,690. AUXILIARY AUTOCAR-DRIVE. EDWIN J. GOULD and WALTER PRESCHER, Fruitvale, Calif., assignors to Modern Mechanical Engineering Company, Alameda, Calif., a Corporation of California. Filed May 22, 1919. Serial No. 299,928. 4 Claims. (Cl. 180—44.)



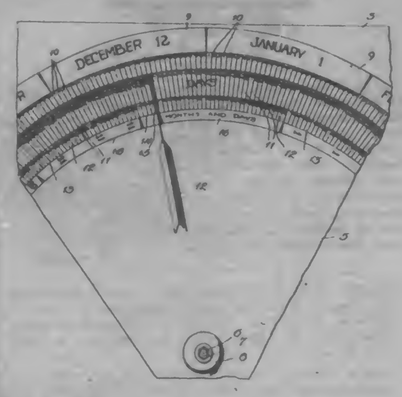
2. An auxiliary automobile drive, comprising a belt running around two concave pulleys on vehicle wheels, an arm attached to the steering knuckle carrying two guides for said belt, a fixed pulley attached to said arm, and a spring controlled pulley opposite the fixed pulley, the belt passing over both last named pulleys to receive tension.

1,401,691. PROCESS OF MAKING AUTOMOBILE-DOOR PANELS. HARRY J. HAGN, Newburgh, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed May 1, 1919. Serial No. 294,024. 10 Claims. (Cl. 154—2.)



1. The process of making laminated products suitable for use as blanks for door panels which comprises applying a succession of separate plates of stiff light material to an advancing, coated web of flexible material, applying heat to partially dry, and thereafter cutting out the web between the plates.

1,401,692. CALCULATING DEVICE. WARREN E. HARRIS, Emmett, Idaho. Filed Aug. 4, 1919. Serial No. 315,197. 1 Claim. (Cl. 235—84.)

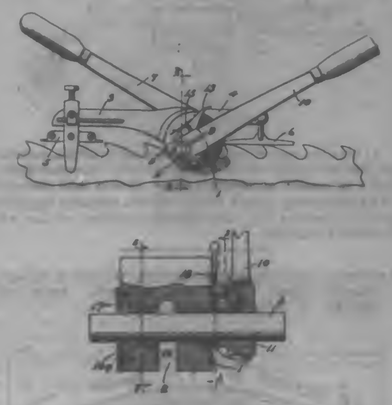


In a calculating device, a stationary member, a revoluble member, graduations on the stationary member bearing indicia of the calendar months and the days thereof chronologically and successively, graduations on the revoluble member one of which is blank and the remaining graduations bearing indicia of the days of a calendar year from one to three hundred and sixty four, of days of a month arranged in groups of thirty and corresponding in multiples of thirty to the days of the calendar year to the extent of twelve groups and these groups numbered from one to eleven, and an indicator occupying the blank graduation following that bearing the indicia three hundred and sixty four, whereby when the indicator is placed in register with a predetermined date on said stationary member the time elapse between that date and any other date following in chronological succession may be ascertained in terms of days or of periods of thirty days and fractions thereof.

1,401,693. PREPARATION OF DIMETHYL SULFATE. WALTER NORMAN HASWORTH and JAMES COLEBROOK LAYCOCK, St. Andrews, Scotland. Filed Nov. 19, 1918. Serial No. 263,250. 7 Claims. (Cl. 23—84.)

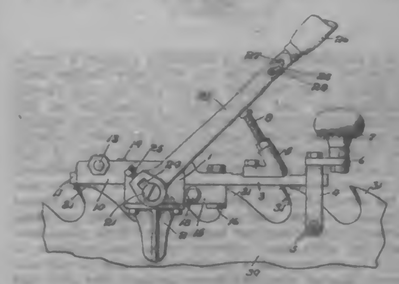
1. A process of preparing dimethyl sulfate which consists in directly combining dimethyl ether and sulfur trioxid in the presence of a solvent initially comprising dimethyl sulfate.

1,401,694. SAW-SWAGE. JOHN P. HENDERSON, Big Rapids, Mich., assignor to Machinery Company of America, Big Rapids, Mich., a Corporation of Michigan. Filed June 28, 1920. Serial No. 392,309. 4 Claims. (Cl. 76—54.)



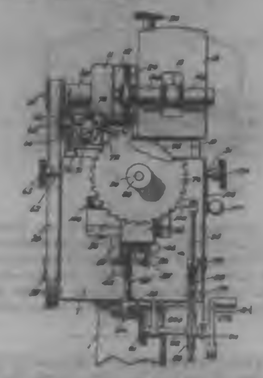
1. In a saw swage, the combination of a swage block an elongated swaging die passing through the block, a bushing mounted on the die and adapted to rest in a recess in the block in which it has bearing, said bushing being provided with an annular groove around the same, an operating handle operatively connected to the die, and a lever pivotally mounted on the block and normally entering the groove in the bushing to hold the bushing against detachment from the block, said lever being movable to free the bushing and associated die for removal from the block, substantially as described.

1,401,695. SAW-TOOTH SHAPER. JOHN P. HENDERSON, Big Rapids, Mich., assignor to Machinery Company of America, Big Rapids, Mich., a Corporation of Michigan. Filed June 28, 1920. Serial No. 392,310. 1 Claim. (Cl. 76—49.)



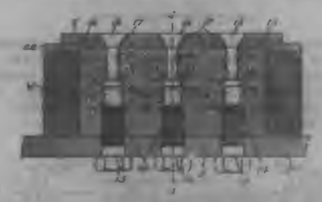
A saw tooth shaper comprising a support having an opening downwardly therethrough, two dies movably mounted on the support and positioned below said opening, screws threaded through opposite sides of the support to engage against the dies, said screws being oppositely threaded, a handle member attached to the screw end of each screw, said handle members being brought together at a distance from the screws and one of said members being provided with a slot, one-quarter inch, a lug on the other member entering said slot, a washer over the end of the lug and adjacent portions of the first handle member, and a screw threaded into the lug to hold the washer substantially as described.

1,401,696. SAW-GRINDING MACHINE. JOHN P. HENDERSON, Big Rapids, Mich., assignor to Machinery Company of America, Big Rapids, Mich., a Corporation of Michigan. Filed June 28, 1920. Serial No. 392,311. 20 Claims. (Cl. 76—41.)



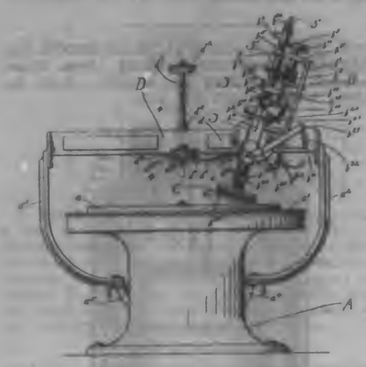
1. In a saw grinding and sharpening machine, means for rotatably supporting a saw, means for periodically turning the saw on its support by step by step movement to bring a succeeding saw tooth into the position occupied by the next preceding saw tooth, a rotatably mounted grinding wheel, means for driving the same, means for periodically moving the grinding wheel toward and away from the saw, and means for automatically elevating the saw after all of the teeth thereon have been acted upon by the grinding wheel, substantially as described.

1,401,697. COMMUTATING-POLE CONSTRUCTION. PHILIP E. HENNINGER, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 25, 1918. Serial No. 246,781. 4 Claims. (Cl. 171—252.)



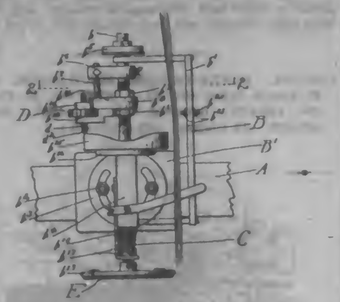
1. A field-magnet pole piece comprising a body provided with an opening extending therethrough, a tip portion having an opening therethrough that registers with the opening in said body, and a rivet one end of which is disposed flush with the surface of said pole tip and the remainder of which is totally inclosed within said openings.

1,401,698. MACHINE FOR GRINDING GLASS PLATES. WALTER J. HESCHEDE and WALTER EBERHARDT, Cincinnati, Ohio. Filed May 14, 1920. Serial No. 382,282. 11 Claims. (Cl. 51—132.)



1. In a machine for grinding bevels upon glass plates the combination of a grindstone, a sleeve, means for mounting the sleeve adjacent to the grindstone, a shaft mounted reciprocally and rotatably in the sleeve, a pattern mounted upon the sleeve and a contact device secured upon the shaft and adapted to contact with the pattern device.

1,401,699. FEED MECHANISM FOR GRINDING MACHINES. WALTER J. HESCHEDE and WALTER EBERHARDT, Cincinnati, Ohio. Filed July 26, 1920. Serial No. 398,094. 4 Claims. (Cl. 51—216.)

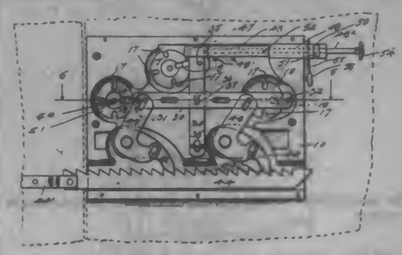


1. In a feed mechanism for grinding machines the combination of a reciprocable work-carrying shaft, a stop mechanism for limiting the feed of the shaft and automatic means for varying the positions of the stop mechanism.

1,401,700. ART OF PREPARING LOW-ALCOHOLIC AND NON-ALCOHOLIC BEVERAGES. HERMAN HILDEBRAND, Evanston, Ill. Filed Jan. 12, 1920. Serial No. 350,945. 7 Claims. (Cl. 99—11.)

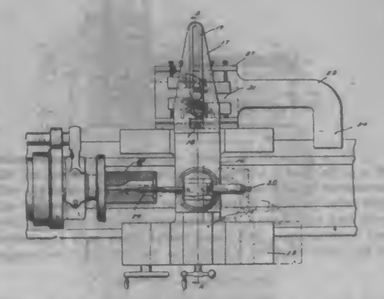
1. The process of improving the taste, flavor and bouquet of a dealcoholized fermented beverage which consists in adding thereto a small proportion of volatile saturated aliphatic acid.

1,401,701. COMBINATION-LOCK FOR CAR-DOORS. WILLIAM J. HULCOMB, Bellefontaine, Ohio. Filed Nov. 2, 1920. Serial No. 421,377. 8 Claims. (Cl. 70—53.)



1. In a device of the class described, a casing, a plurality of tumblers mounted therein in different planes, an element adapted to be locked in a predetermined position within said casing, locking members for engagement with said element, locking members for operating said members, bars adapted to control said pivoted operating members, said tumblers being adapted at times to prevent operation of said bars, and operating means for said bars.

1,401,702. LATHE ATTACHMENT. MONROE G. HUSTED, Bridgeton, N. J. Filed Sept. 24, 1920. Serial No. 412,562. 6 Claims. (Cl. 82—36.)



1. A device of the class described comprising a tool holder formed in two sections, one of said sections being relatively rotatable about a central axis, a cutting tool mounted on said rotatable section, said rotatable section being adapted to be rotated to cause said tool to engage the work piece and means in said tool holder and acting upon said rotatable section tending to rotate it in a direction to cause the cutting face of said tool to constantly engage the work piece.

1,401,703. EAVES-TROUGH AND SUPPORT. JACOB E. HYRE, Urbana, Ill. Filed June 22, 1920. Serial No. 390,714. 4 Claims. (Cl. 108—28.)

1. A non-metallic eaves trough comprising a blank bent along its length to form a channel, certain portions of the blank being shaped to constitute housings extending longitudinally of the channel, a lip portion on each housing extending to a point approximately midway of the trough and secured to a portion of the blank, a longi-

radial strengthening member fastened in each housing, and means for cross-bracing the structure and maintaining



the longitudinal strengthening members in predetermined relation.

1,401,704. SCALE. LEONARD T. JOHNSON, Boston, Mass. Filed Oct. 18, 1916. Serial No. 125,410. 5 Claims. (Cl. 265—69.)



1. In a scale of the kind described, the combination of a price chart, a weighing lever, means to control the movement of said lever with an evening bar movable with said lever parallel therewith and interposed between said lever and said means, a thermostat parallel with said lever and evening bar, and connections from said thermostat to the price chart to compensate for temperature changes.

1,401,705. CAP-SPINNING FRAME. JOSEPH H. JOSLIN, Winthrop, Mass., assignor of one-half to Robert Burgess, Newton Center, Mass. Filed Dec. 27, 1920. Serial No. 433,154. 19 Claims. (Cl. 118—62.)



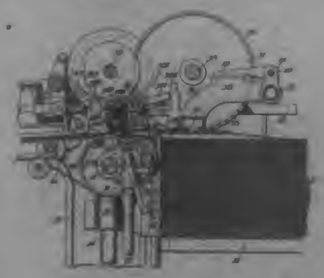
1. The combination with a rotating spinning element, a cap surrounding said element and rotating in unison therewith, a rail having an opening through which the said element extends, a whirl-support having a base adjacent to rest upon said rail and a boss encircling the said element and occupying the opening in the rail, such whirl-support also having a chamber containing a bearing, and a supporting waist for the said cap, having a passage opening to the said bearing.

1,401,706. IGNITION AND SCAVENGING MEANS FOR INTERNAL-COMBUSTION ENGINES. FRED KARR, Toupeka, Kans. Filed Apr. 4, 1921. Serial No. 459,441. 3 Claims. (Cl. 123—145.)



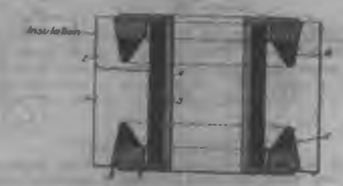
1. In an internal combustion engine, a cylinder having an auxiliary compression chamber, a spark plug having a casing forming a ground electrode and provided with a fuel inlet and a fuel outlet, said fuel inlet communicating with said compression chamber, and the second electrode entering said fuel outlet, and means upon the cylinder piston to enter said compression chamber and force fluid from said chamber into and through said spark plug.

1,401,707. PAPER-FEEDING MECHANISM. WILLIAM M. KELLY, Jersey City, N. J. Filed Oct. 13, 1916. Serial No. 125,429. Renewed Oct. 11, 1921. Serial No. 507,157. 43 Claims. (Cl. 271—28.)



4. In sheet feeding mechanism the combination of a table, a shaft arranged above said table, a pair of wheels on said shaft having opposed peripheral flanges with radial perforations, a suction pipe arranged above said table, a nozzle on said pipe projecting between said wheels and connecting with said flanges, a rock shaft, and a valve carried by said rock shaft and co-operating with said nozzle to control the suction through

1,401,708. COMMUTATOR-CYLINDER. WILLARD H. KEMPTON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 28, 1919. Serial No. 300,431. 2 Claims. (Cl. 171—321.)

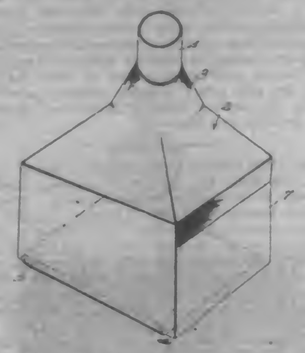


1. A commutator cylinder comprising a metallic sleeve, a tube of insulating material surrounding the sleeve, alternate conducting and insulating segments provided with notches arranged in annular relation about the tube, windings of cord impregnated with a hardened binder disposed in the notches and means detachably securing the segments with relation to the sleeve while maintaining the conducting segments insulated therefrom.

1,401,709. PURIFICATION OF CRUDE SYNTHETIC CAMPHOR. JOHANNES M. KESSLER, West Orange, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Feb. 25, 1920. Serial No. 361,353. 19 Claims. (Cl. 23—24.)

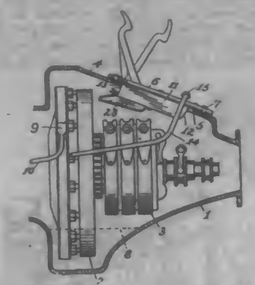
1. The process of purifying camphor containing an organic halid which comprises heating such camphor in the presence of a high boiling point organic acid salt soluble in molten camphor and at a temperature sufficient to bring about decomposition of the organic halid but below that at which camphor itself begins to decompose.

1,401,710. DUST-CONVEYING ATTACHMENT FOR THRESHING-MACHINES. JOHN KOTRBEK, Selden, Kans. Filed Mar. 1, 1917. Serial No. 151,750. Renewed May 14, 1921. Serial No. 469,404. 2 Claims. (Cl. 130—29.)



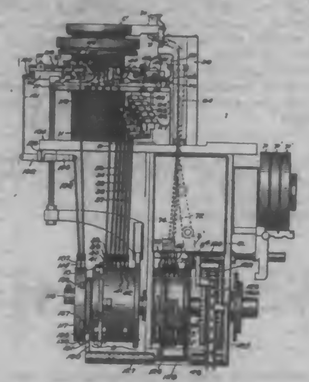
1. A dust conveying attachment for the feeding mechanism of a threshing machine including a frame structure having a tapered upper portion, a hood arranged upon the frame constructed of flexible material and having receiving and discharge openings in the opposite ends thereof and an outlet port in the upper portion thereof, and a flexible closure for the receiving opening of the hood adapted to be swung outwardly to permit insertion of bundles of grain in the hood.

1,401,711. OILING DEVICE. CHARLES KRALICEK, Cleveland, Ohio, assignor, by mesne assignments, to Safety Oiling System, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 10, 1919. Serial No. 275,971. 6 Claims. (Cl. 184—11.)



2. An oiling device comprising a plate, a pocket carried by the plate, the plate and pocket being arranged on an inclination, the pocket having an open end for receiving oil, and the pocket being provided with an open side for permitting oil to flow therefrom, substantially as described.

1,401,712. CIRCULAR GLOVE-KNITTING MACHINE. JOHN LAWSON, Central Falls, R. I., assignor to Hemphill Company, Central Falls, R. I., a Corporation of Massachusetts. Filed Dec. 12, 1918. Serial No. 266,481. 28 Claims. (Cl. 66—24.)

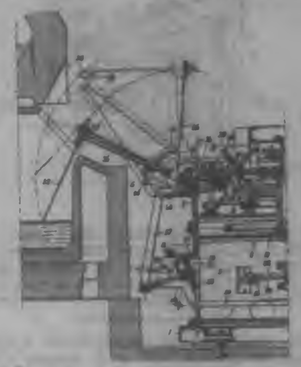


1. Knitting mechanism comprising in combination, a needle carrier and a cam carrier to knit the hand and fingers of a glove, and picker means to fashion the tips of the fingers during and by the knitting operation.

1,401,713. AUTOMATIC MACHINE FOR BLOWING GLASS. ERNEST LECOULTRE, Paris, France, assignor to Compagnie Generale d'Electricite, Paris, France, a French Corporation. Filed Dec. 27, 1919. Serial No. 347,836. 9 Claims. (Cl. 45—20.)

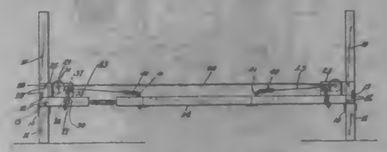
9. In an automatic machine for the manufacture of articles of blown glass, the combination with a main support, of a series of radial arms, means for mounting said radial arms for a bodily revolving movement around a common axis independently of each other, a forearm pivotally carried by each of said arms for vertical movement, a blow tube secured to each of said forearms

adapted to be dipped into a glass pot, a truck for supporting and guiding said furnaces, said truck being constructed with means for raising and lowering the furnaces to permit the blow tube to be lowered into the glass pot and raised therefrom, means for regulating the depth of the successive blow tubes in the pot, the extent of said dipping being progressively increased in proportion to the fall of level of the glass in said pot, means for rolling the glass around the blow tubes, means for individually rotating said blow tubes, means for distributing



air under pressure to the blow tubes, said distribution being effected at different pressures or the air being derived from several sources corresponding to the various positions of the radial arms carrying said blow tubes, a continuously operated member and an intermittently operated member for controlling the movements of said radial arms, automatic means for alternately connecting the individual arms to said continuously and intermittently operated members, and a motor and associated gearing connected with said operated members for driving said members.

1,401,714. FOLDING BED. HARRY LITVAK, Hudson, N. Y. Filed Mar. 10, 1921. Serial No. 451,086. 5 Claims. (Cl. 5—68.)



1. In combination with a bed having end posts and side rails, means for tensioning a bed spring in place on said bed, said means comprising a housing attached to said end-posts, a shaft journaled transversely of said side rails within said housing, means for operating said shaft, and a tension device in connection with said shaft adapted to be energized by the operation of said shaft as and for the purpose herein specified.

1,401,715. HAY-PRESS. WILMER ELMER MCCARDWORTH, Orange, Tex. Filed Oct. 11, 1920. Serial No. 416,151. 7 Claims. (Cl. 100—7.)

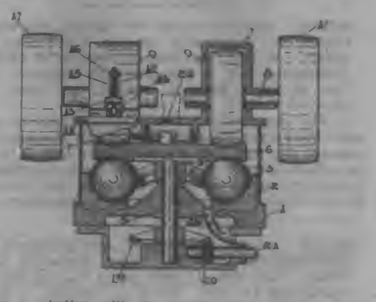
1. In a hay press, the combination with a plunger and a crank shaft connected to said plunger, of a spur gear to operate said crank shaft, said spur gear having a lug to intermittently contact with said crank shaft, said lug being formed with a recess, and a spring seated in said recess.

To a hay press, the combination with a plunger mechanism, of a crimping device comprising a pulley roller adapted to engage the charge being compressed, a pin supporting said roller, pivotally mounted links sup-



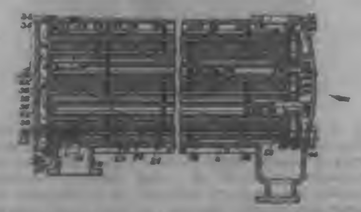
porting said pin at its ends, a yoke extending lengthwise over said roller and having laterally extending curved arms fitting over and bearing upon the roller, and also having downward projecting slotted ends receiving said pin, and springs tending to draw said ends downward.

1,401,716. PULVERIZER OR GRINDING-MACHINE. GEORGE MCCREA, Brantford, Ontario, Canada. Filed Feb. 12, 1921. Serial No. 444,462. 8 Claims. (Cl. 83—45.)



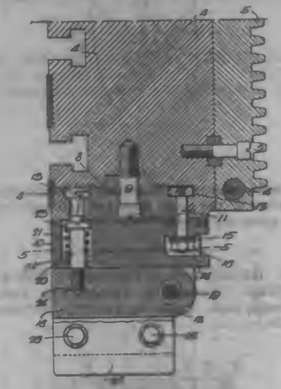
1. In a grinding mill, the combination of a casing; a non-rotatable grinding plate at the lower part of the casing; a floating grinding plate supported above the non-rotatable plate; freely rolling grinding members holding said plates in spaced relationship; rotary grinding members adapted to cooperate with the upper surface of the floating grinding plate and to drive the same; bearings for said rotary grinding members movable to and from the floating grinding plate; and means for directly rotating said members.

1,401,717. HEAT-EXCHANGE DEVICE. FRANK A. HALLECK, Oak Park, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Nov. 28, 1917. Serial No. 204,459. 12 Claims. (Cl. 257—289.)



7. An intercooler comprising a casing of substantially rectangular cross section and having a plurality of parallel communicating compartments formed therein, and a plurality of cooling units disposed in said compartments, each comprising a series of spaced cooling tubes cooperating to form a unit of substantially rectangular cross section substantially filling its compartment and each removable without removal of any other.

1,401,718. TOOL-HEAD FOR SLOTTING-MACHINES. GEORGE F. MUTH, Philadelphia, Pa., assignor to Newton Machine Tool Works, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 1, 1920. Serial No. 362,592. 3 Claims. (Cl. 90—54.)



1. The combination in a slotting machine, of a ram having an annular undercut slot in its under side; a head resting against the lower end of the ram; bolts having heads adapted to the annular slot and carried by the head so that the head can be clamped to the ram in any position desired; a tool holder pivoted to the head; and yielding means for holding the tool holder to the head.

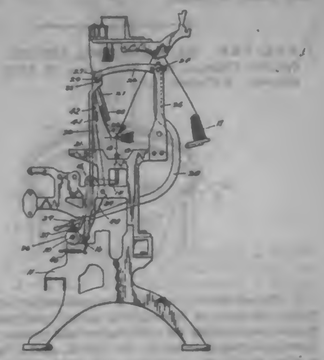
1,401,719. SHINE OR GLOSS REMOVER AND NAP-PRODUCER. LAURA M. MYERS, Chicago, Ill. Filed Dec. 16, 1918. Serial No. 267,011. 3 Claims. (Cl. 26—4.)



2. In a device of the character set forth comprising a new article of manufacture for removing shine from clothing, the combination of a body having flat sides and a rounded lower surface, a fabric provided with sharp crystalline grains applied to said body, and a handle secured to the body and holding the fabric in position, the arrangement being such that the device will have two flat sides and a rounded bottom for engagement with the goods to be acted upon.

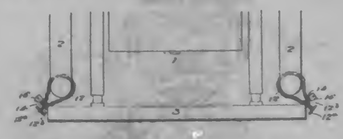
1,401,720. EMBROIDERING ATTACHMENT FOR FLAT-KNITTING MACHINES. KARL FRIEDRICH NEBEL, Philadelphia, Pa., assignor to The Nolde & Horst Company, Reading, Pa., a Corporation of Pennsylvania. Filed Nov. 23, 1920. Serial No. 425,969. 9 Claims. (Cl. 66—28.)

9. In a machine of the character stated, mechanism including knitting needles for forming fabric of body yarn, means including guides for feeding other yarn to the knitting needles to form contrasting effects upon the ground fabric made from the body yarn, means for raising vertically and substantially in unison the needles and guides,



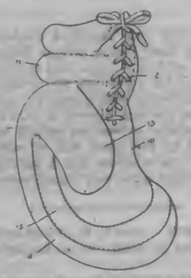
and means for moving the guides transversely of the machine in register with needle spaces while the lower parts of the guides are in substantially the same horizontal plane as the upper parts of the needles.

1,401,721. WHEEL-LOCKING DEVICE. HARRY NICODEMUS, Baltimore, Md. Filed Mar. 16, 1920. Serial No. 366,310. 8 Claims. (Cl. 188—31.)



2. In a locking device for vehicles, a bumper provided with a spring, a slidable plate, a chain connected to said slidable plate and its outer end adapted to be looped around a wheel and means for locking said chain.

1,401,722. BOXING-GLOVE COVER. ZACK GILL OLDHAM, Urbana, Ill. Filed Nov. 20, 1920. Serial No. 425,428. 1 Claim. (Cl. 2—196.)



A boxing glove having a palm portion and a padded back and thumb portion, said back portion being stretched and formed to extend over and around the edge of the glove so as to join the palm portion within the palm thereof,

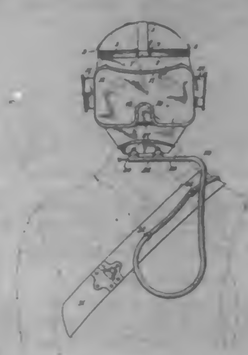
wherein wrinkles will be eliminated from the back portion and the edge of the glove, and a protecting strip positioned within the palm of the glove and secured to said padded back portion and said palm portion for covering their point of joinder.

1,401,723. SACK-HOLDING DEVICE. Martin B. Palich, Chicago, Ill. Filed Aug. 29, 1921. Serial No. 494,084. 8 Claims. (Cl. 23—5.)



1. The combination with a container having supporting means therein, of interfitting annuli resiliently held together and resting on said supporting means, a sack frictionally engaged between the annuli, and a ball normally resting inside the container and connected to the annuli for removing the sack and the annuli from the container.

1,401,724. MASK. Michal Palij, Chicago, Ill. Filed Feb. 24, 1921. Serial No. 447,525. 4 Claims. (Cl. 128—141.)



1. A mask of the type described comprising a rigidly positioned frame, head straps carried thereby, a forward frame hinged to said rigid frame and carrying a transparent shield, means for admitting air to said shield, coöperating means carried by said frames for holding the same in closed position, ear caps carried by said shield, said ear caps including tubular extensions carried by the shield, a reticulated plate at the laner end of each extension, a hinged cover for the extension and a packing material between the reticulated plate and hinged cover.

1,401,725. SHIRT. Julius B. Pearlstein, Brooklyn, N. Y. Filed Aug. 14, 1920. Serial No. 403,493. 1 Claim. (Cl. 2—41.)

As an improved article of manufacture, a shirt formed with a bifurcated tail the two ends thereof being convergently curvilinear and terminating in apices, the curvature of the inner edge being relatively slight as compared with that of the outer edge, groin flaps of convergent curvilinear shape, the apices thereof and of said tail ends being provided with detachable fastening means, permitting the



tail flaps being used either in crossed or uncrossed relation, the curvatures of the groin flaps and tail ends coinciding when the parts are in use.

1,401,726. HEMSTITCH ATTACHMENT FOR SEWING-MACHINES. William L. Pierce, New York, N. Y. Filed Jan. 9, 1919. Serial No. 270,277. 10 Claims. (Cl. 112—139.)



1. In a cord border hemstitching attachment for sewing machines, the combination with a cutting plunger and stitching needles for stitching a cord border on opposite sides of the hole cut by said cutting plunger, of a cord guide positioned between said cutting plunger and said stitching needles.

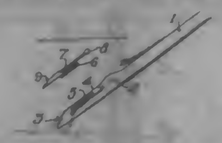
1,401,727. CURTAIN-POLE. Peter Pimlott, Brooklyn, N. Y. Filed Jan. 8, 1921. Serial No. 435,890. 8 Claims. (Cl. 156—19.)



6. In a fixture of the class described in combination with supporting brackets, a sectional rod, and means for turning one of said sections at an angle with respect to the other, said means comprising a rotatable element supported in the inner end of one of said sections.

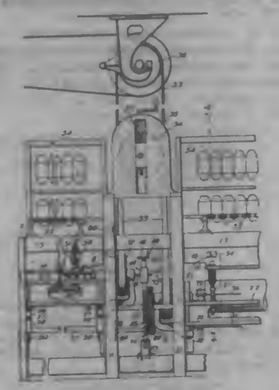
1,401,728. DARNING HOOK. Edward J. Post, Philadelphia, Pa. Filed Apr. 3, 1920. Serial No. 371,127. 1 Claim. (Cl. 66—3.)

A crocheting needle having a body portion and a hook member, said body portion being provided with a longitudinal dovetail slot which extends to and terminates in the said hook portion and with a depression, a keeper slidably fitted within the dovetail slot and having integral therewith a rearwardly extending resilient member adapted to engage the depression in the body portion for retaining the



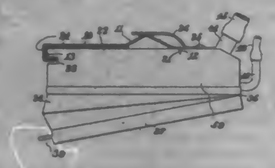
keeper in its normal position, and a forwardly extending pointed member adapted to open and close the hook member.

1,401,729. RING SPINNING OR TWISTING MACHINE. James C. Potter, Pawtucket, R. I. Filed Sept. 1, 1921. Serial No. 497,616. 18 Claims. (Cl. 118—41.)



2. In a ring-spinning or twisting machine, the combination of rings and travelers supported thereon, a stationary support for such rings, thread-feeding means situated a fixed distance from the rings, a carriage that supports spindles and spindle rotating means, and a builder motion for traversing said carriage and causing the movement of spindles and bobbins supported thereby to and fro through the rings, the travelers deriving their motion only from the pull of the threads as the latter are wound upon the bobbins.

1,401,730. UNIT SYSTEM FOR PLAYER-PIANOS. Louis H. Pray, Medford, Mass. Filed Aug. 10, 1920. Serial No. 402,648. 7 Claims. (Cl. 84—53.)



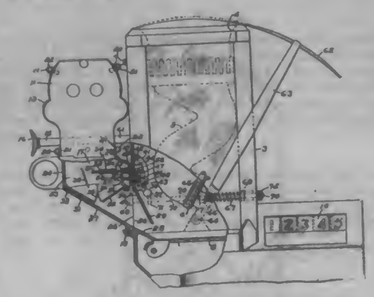
1. A supporting bar having a stiffening rib extending lengthwise of the top face thereof; and detachably secured thereto a plurality of hammer-actuating units adjustable endwise of said bar and each having a spring member extending over and coacting with said stiffening rib.

1,401,731. TAG HOLDER AND ILLUMINATOR. Fred W. Reimann, Manistique, Mich. Filed Aug. 25, 1919. Serial No. 319,613. 3 Claims. (Cl. 40—132.)



1. A tag holder and illuminator comprising a hollow body provided with an open top, a removable cover for the open top of the body, means for supporting a license tag within the body and rearwardly of the line of the open top, illuminating means at the top of the body above the opening therein, and a transparent reflecting means positioned in front of the casing to reflect the light rays from the illuminating means toward the rear and against said tag, the latter being visible through the transparent reflecting means.

1,401,732. FARE RECEIVING AND REGISTERING APPARATUS. Henry E. Reynolds, Braintree, Mass.; Carrie B. Reynolds executrix of said Henry E. Reynolds, deceased. Filed Dec. 5, 1916. Serial No. 135,258. 10 Claims. (Cl. 235—32.)



1. In a fare-collecting and registering apparatus, the combination of a main fare-receiving and registering machine and a portable primary fare-receiver each having an opening leading into the other for the discharge of previously collected fares from the primary fare-receiver to the main fare-receiving and registering machine, closures for said openings, locking means for said closures, means on said main fare-receiving and registering machine to operate the locking means of the closure of said primary fare-receiver, and means on said supplemental fare-receiver to operate the locking means of the closure of said fare-receiving and registering machine.

1,401,733. DESULFURIZATION OF ZINC SULFID ORES. Gilbert Rigg, Melbourne, Victoria, Australia, assignor to Mining and Metallurgical Processes Proprietary Limited, Melbourne, Victoria, Australia. Filed May 21, 1918. Serial No. 235,784. 10 Claims. (Cl. 75—60.)

1. In the art of roasting zinc sulfid ores the process which consists in subjecting the ore to a preliminary roast

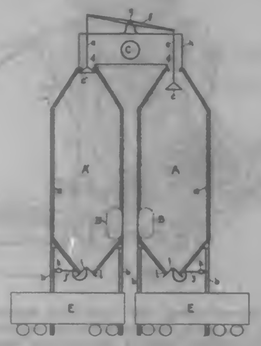
and their assignment to a fixed point, the preliminary travel eliminating slack to such a degree that the first point produces a proper stroke.

1,401,734. HINGE. CHARLES B. ROBERTS, Berkeley, Calif. Filed Oct. 30, 1920. Serial No. 420,634. 2 Claims. (Cl. 16—181.)



1. An adjustable hinge comprising hinge leaves, spaced knuckles having alining holes formed on one of said leaves, an enlarged knuckle on the other leaf adapted to fit between said spaced knuckles, a bushing adjustably held in said enlarged knuckle said bushing having a longitudinally extending eccentrically disposed hole, a shoulder on the lower end of said enlarged knuckle and a pivot pin extending through the holes in said knuckles and the hole in said bushing.

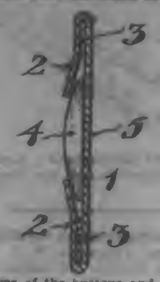
1,401,735. METHOD FOR REMOVING SOLIDS SUSPENDED IN OR CARRIED BY GASES. FRANK C. ROBERTS, Wynnewood, Pa. Filed Jan. 22, 1921. Serial No. 439,167. 1 Claim. (Cl. 183—114.)



The method of purifying gases by removing solids suspended in or carried by gases, which consists in directing the current of gases into one or more receptacles for an interval of time, thereafter directing the current of gases into other purifying means for a period of time sufficient to permit the desired portion of the solids to be removed from the gases in said one or more receptacles, and thereafter re-directing the current of gases into said one or more receptacles to displace the purified gases.

1,401,736. CARD FOR HOLDING BUTTONS. WALTER L. ROTHSCHILD, New Rochelle, N. Y. Filed Mar. 31, 1920. Serial No. 370,297. 2 Claims. (Cl. 211—84.)

1. An article of the class described comprising a button-holding card having a base having its edges infolded to form a pair of spaced-apart button-retaining flaps, said flaps being normal to the base for a portion of their width, with their outermost portions overlying the edges of the buttons and pressing the same against the back.

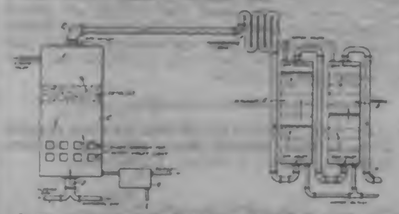


1,401,737. METHOD OF PRODUCING CARBON-BLACK. BRADLEY W. RUMBARGER, Fairbanks, La., assignor to Southern Carbon Company, Fairbanks, La., a Corporation of Delaware. Filed Oct. 5, 1920. Serial No. 414,891. 5 Claims. (Cl. 134—60.)



2. The herein described improvement in producing carbon black from a flame of hydrocarbon consisting in burning hydrocarbon behind a supplemental flame forming a protective gaseous screen adapted to exclude oxygen from the black producing flame.

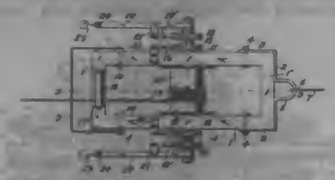
1,401,738. METHOD OF PRODUCING CARBON-BLACK. BRADLEY W. RUMBARGER, Fairbanks, La., assignor to Southern Carbon Company, Fairbanks, La., a Corporation of Delaware. Filed Mar. 9, 1921. Serial No. 451,014. 8 Claims. (Cl. 134—60.)



2. The process of treating a natural hydrocarbon gas to increase the carbon content and to diminish the hydrogen content thereof and at the same time produce hydrochloric acid gas, consisting in bringing said natural gas, chlorin and a liquid hydrocarbon together in a chlorinating chamber, washing out the hydrochloric acid gas and passing the remaining gas on for use as hydrocarbon gas having an increased carbon content.

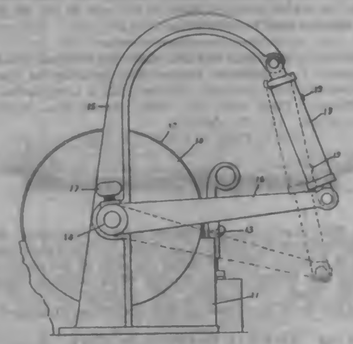
1,401,739. WIRE-STRETCHER. JESSE GYRAM EYALS, Inverness, Fla., assignor of one-half to George W. Scofield, Inverness, Fla. Filed June 5, 1920. Serial No. 386,709. 1 Claim. (Cl. 254—134.)

A stretcher comprising a substantially rectangular frame, a shaft journaled transversely of and having its ends extending laterally beyond the lines of the frame, a winding drum rigid upon the shaft and substantially spanning the space between the side bars of the frame, a pair of ratchets mounted upon the shaft upon the exterior of



the frame at each end, pawls carried by the frame engaging with the proximate ratchets, levers pivoted upon the shaft at its remote ends, and pawls carried by the levers engaging the remote ratchets.

1,401,740. TEST-STAND FOR TESTING STARTING-MOTORS. JOSEPH C. SCHAF, Jr., and WILLIAM J. HOLLIDAY, Indianapolis, Ind. Filed Nov. 20, 1920. Serial No. 425,531. 2 Claims. (Cl. 265—1.)



1. A device for indicating the torque of a motor, including means for securing the motor in fixed position, a crane-like standard having a bearing therein through which said motor shaft is adapted to extend, an arm attached to said shaft, an indicating scale connecting the end of said crane-like standard and the other end of said arm, whereby the operation of said motor will tend to cause said arm to actuate said scale for indicating the foot pounds of torque thereof.

1,401,741. PROCESS OF TREATING ALUNITE. MARK SHOELD, Chicago, Ill., assignor to Armour Fertilizer Works, Chicago, Ill., a Corporation of New Jersey. Filed Feb. 26, 1920. Serial No. 361,466. 4 Claims. (Cl. 23—13.)

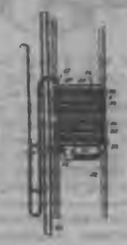
1. The process of treating alunite consisting in heating a mixture of alunite and carbonaceous material in a reducing atmosphere at a temperature and for a period of time sufficient to decompose its aluminum sulfate in part only but without decomposing or volatilizing its potassium sulfate, substantially as described.

1,401,742. CANCELING DEVICE. JOHN W. SLACK, Silver Creek, N. Y., assignor to Columbia Postal Supply Company, Silver Creek, N. Y., a Corporation of New York. Filed May 15, 1920. Serial No. 381,673. 2 Claims. (Cl. 101—329.)

1. A canceling device comprising a body provided at its rear end with a longitudinal socket, a printing roller mounted on said body, a handle journaled at its front end in said socket and provided in its periphery with a segmental peripheral groove, and a screw secured to said socket and having a reduced inner end engaging with said groove.

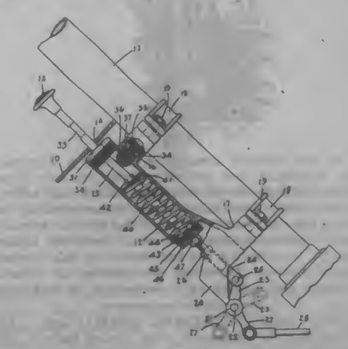


1,401,743. METHOD AND APPARATUS FOR SEPARATING FOREIGN SUBSTANCES FROM LEAD MATTES. ELMER A. SPERRY, Brooklyn, N. Y. Filed Feb. 7, 1919. Serial No. 275,634. 21 Claims. (Cl. 204—57.)



1. The method of separating lead from a matte containing lead in excess and other metals which comprises dissolving lead from said matte by passing an electric current from the matte through an electrolyte in an electrolytic cell, preventing the dissolved lead from reaching the cathode and removing the separated lead and other metals from the cell.

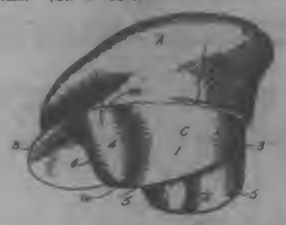
1,401,744. CONTROL MECHANISM. HARVEY LEE WATSON, Indianapolis, Ind., assignor, by mesne assignments, to C. M. Hall Lamp Company, a Corporation of Michigan. Filed Dec. 6, 1920. Serial No. 428,748. 5 Claims. (Cl. 74—39.)



1. A control mechanism including an actuating rod, a housing surrounding said rod and having an opening

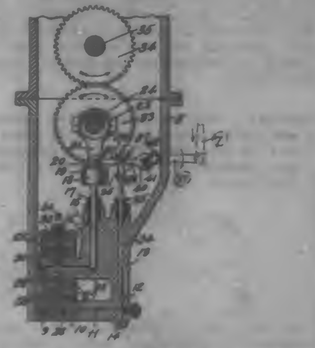
through which the rod extends, and a chamber surrounding transversely of the housing and communicating therewith, a latching plunger yieldingly supported in said transverse chamber, said rod having a portion thereof cooperating with the plunger in the housing to lock the rod in one position, and spring means within the housing exerting longitudinal force on said rod to move the same when released.

1,401,745. HEADWEAR. SAMUEL WEISSER, Rutherford, N. J. Filed Dec. 21, 1920. Serial No. 432,226. 2 Claims. (Cl. 2—107.)



1. The combination with a head covering, of a dependent ear and neck protector having ear pockets in the opposite sides of the same bulged outwardly to loosely receive and fit over the ears of the wearer and having its forward edges sloping downwardly and rearwardly and its lower rearward edge permanently shortened so as to fit closely against the back of the neck and to draw the forward edges of the ear pockets closely against the sides of the head in advance of the ears.

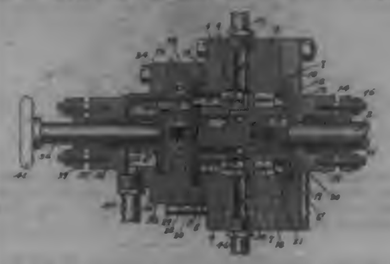
1,401,746. INTERNAL-COMBUSTION MOTOR AND FUEL-FEED THEREFOR. ALEXANDER WINTON, Lakewood, Ohio. Filed Oct. 16, 1916. Serial No. 125,978. 10 Claims. (Cl. 123—140.)



1. In an internal combustion motor, a cylinder, a piston therein, a fuel injecting device for said cylinder having a capacity for a maximum charge and having a constant stroke, means in open communication with said fuel injecting device for supplying fuel in unmeasured quantity thereto, means actuated by said fuel injecting device for interrupting the fuel supply to said device on the suction stroke thereof for determining the volume of the charge, and a check valve mechanism in said supply.

1,401,747. MOTOR-STARTING MECHANISM. ALEXANDER WINTON, Lakewood, Ohio. Filed Dec. 23, 1916. Serial No. 138,653. 2 Claims. (Cl. 60—16.)

1. Starting apparatus for internal combustion motors, comprising a casing having a series of circumferentially spaced cavities each open at both ends and communicating with a motor cylinder, a check valve in each cavity seating toward either end thereof, two valves rotating together in timed relation with the motor and each provided with a port passing in turn the open ends of said cavities, said casing having two chambers containing said rotating



valves and a pressure chamber communicating by ports within the casing with said two chambers, and a single valve in said pressure chamber having two positions in either of which pressure flows to one and is cut off from the other of said two chambers.

1,401,748. MANUFACTURE OF DRAWBAR-YOKES. HARRY T. ANDERSON, Butler, Pa., assignor to Harry Vissering and Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 25, 1920. Serial No. 361,078. 8 Claims. (Cl. 29—187.)



1. That improvement in making railway draft-gear yokes which consists in cutting a plurality of draft-gear openings in a bar of metal, forming the ends of the blank for keying to a coupler shank, forging offset marginal flanges on the blank, and bending and doubling the blank to bring the draft gear openings into transverse alinement.

1,401,749. RAILWAY DRAFT-GEAR YOKE. HARRY T. ANDERSON, Butler, Pa., assignor to Harry Vissering and Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 25, 1920. Serial No. 361,079. 7 Claims. (Cl. 213—42.)



1. A one-piece forged draft-gear yoke comprising in combination a front portion having sides spaced apart to receive and formed for keying to a coupler shank, a back, and longitudinal connecting members in abutting relation between the back and front portion, the yoke having openings adapted for the lateral insertion of the draft-gear.

1,401,750. ORNAMENT-SUPPORT. LOUIS V. ARONSON, Newark, N. J. Filed Aug. 24, 1921. Serial No. 496,884. 3 Claims. (Cl. 248—30.)

1. Means for supporting an ornament upon a disk-shaped instrument, comprising a ring adapted to contact

with the edge of said instrument, a clamp cooperating with said ring and adapted to be secured to the support-



ing means of said instrument, and a base for an ornament carried by the upper portion of the ring.

1,401,751. TRAVELING GRIZZLY. COLBY M. AVERY, Aurora, Ill., assignor to Stephens-Adamson Mfg. Co., a Corporation of Illinois. Filed Dec. 11, 1920. Serial No. 429,886. 4 Claims. (Cl. 83—56.)



1. In a traveling grizzly, in combination, two pairs of sprocket wheels, sprocket chains running upon the wheels, screening bars carried by the chains, and undulating tracks supporting the chains intermediate of the wheels, the pitch of the undulations of the track and of the sprocket chains being different and being so differentiated that neither is a multiple of the other.

1,401,752. REAMER. JOHN ANDREW BERTRAND, Los Angeles, Calif., assignor to Asbury Reed, Los Angeles, Calif., and Wehner A. Koch, San Francisco, Calif. Filed Nov. 19, 1919, Serial No. 339,077. Renewed Oct. 24, 1921. Serial No. 510,008. 12 Claims. (Cl. 77—76.)



1. A reamer having a tapered body and cylindrical ends and having longitudinally extending guides for cutters,

the bottoms of the grooves being inclined outwardly toward one end, bits movable in the grooves and having reduced threaded ends, a nut journaled on one of the cylindrical portions and engaging the threaded ends of the bits, a sleeve encircling the bits and split longitudinally to provide resiliency, and means for moving the sleeve longitudinally of the mandrel.

1,401,753. TELEPHONE-RECEIVER. GASTON BOISSONNAULT, Hewlett, N. Y. Filed Jan. 29, 1921. Serial No. 440,829. 7 Claims. (Cl. 179—182.)



1. The combination in a receiver of the class described provided with a supporting neck, of an ear piece and a sound amplifier both detachably and interchangeably engageable with said supporting neck.

1,401,754. TELEPHONE-TRANSMITTER. GASTON BOISSONNAULT, Hewlett, N. Y., assignor to G. Boissonnault Company, New York, N. Y., a Corporation of Delaware. Filed July 22, 1921. Serial No. 486,738. 4 Claims. (Cl. 179—188.)

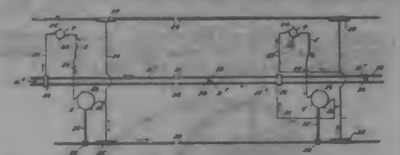


1. The combination with a telephone transmitter provided with a projecting neck, of a perforated plate having screw threaded connection with said neck and an overlying perforated cap pivotally connected with said plate.

1,401,755. AUTOMATIC TRAIN-STOPPING APPARATUS. OSARIO BONACCORSO, Philadelphia, Pa., assignor of one-half to George Lo Bue, Philadelphia, Pa. Filed June 30, 1919. Serial No. 307,500. 2 Claims. (Cl. 246—66.)

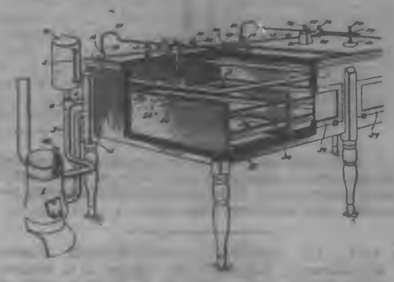
1. In train stopping apparatus, the combination with a track-way divided into blocks, of car carried stopping

mechanism controlling an electric motor, means operable from said motor for cutting off the propelling power of the car, a connection between said motor and the engineer's brake valve, means for operating the motors so even within the same block whereby the propelling power will be cut off and the brakes applied, and means oper-



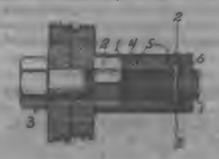
able to break the circuit of each motor simultaneously with the cutting off of the propelling power of the car, said means last named including a switch opened simultaneously with the closing of a controlling lever of the vehicle and operated by said lever.

1,401,756. INCUBATOR. JAMES S. BROWNE, St. Louis, Mo. Filed Nov. 13, 1920. Serial No. 423,779. 8 Claims. (Cl. 236—4.)



1. In an incubator having an incubating chamber, the combination with a hot water heating system including a ball valve for controlling said system, of a ventilator for the incubating chamber, a ventilator closure member, a lever adjustably connected at one end to said ball valve and at its other end to said closure member, a housing supported on said incubator, a pivotal plate fixed to said rod and journaled on said housing, a tubular member extending downwardly from said housing into the incubating chamber, a thermostat positioned in the incubating chamber and having its operating rod extending upwardly through said tubular member into said housing, and means carried by said plate and operatively engaging said thermostat rod, said means being adjustable relative to said thermostat whereby the operation of said lever by the thermostat can be advanced by the adjustment of said means.

1,401,757. NUT-LOCK. WILLIAM FORREST BROWN, Kansas City, Mo. Filed Feb. 28, 1921. Serial No. 448,379. 9 Claims. (Cl. 151—1.)



1. In a nut lock, a polygonal shell adapted to be fitted on a nut mounted on a bolt, the shell having one or more

towardly extending projections and being adapted on reverse end bolt greater universal in which a threaded portion of the bolt is embedded, substantially as set forth.

1,401,758. EYE-SHADE. WILLIAM ARTHUR CARLETON, Governors Island, N. Y. Filed Dec. 20, 1920. Serial No. 452,008. 1 Claim. (Cl. 2—149.)



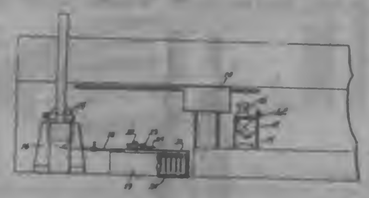
An eye shade, including a body portion, and tabs swingingly connected to and forming a continuation of the side edges of said body portion, said body being formed with a cutout portion in one of its longitudinal edges, said cutout portion terminating short of the points of swinging connection of said tabs with said body portion.

1,401,759. MINING-MACHINE TRUCK. FRANK CANTLIFFE, Clarksmet, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Oct. 10, 1917. Serial No. 195,734. 10 Claims. (Cl. 105—161.)



1. In a mining machine truck, a truck frame, and a machine guiding extension pivotally connected thereto and forming a collapsible joint therewith.

1,401,760. MANUFACTURE OF SCREW-CUTTING OIL. HARRY C. CLAFLIN, Cleveland, Ohio. Filed Mar. 22, 1920, Serial No. 367,606. Renewed Nov. 5, 1921. Serial No. 513,213. 17 Claims. (Cl. 87—9.)



7. A heat absorbing lubricant comprising a colloidal solution of sulfur in oil.

1,401,761. LIFTING-JACK. ELMER A. CLARK, Joliet, Ill., assignor to W. E. Pratt, Chicago, Ill. Filed Mar. 21, 1921. Serial No. 454,732. 8 Claims. (Cl. 254—110.)

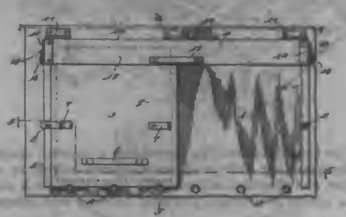
1. In a lifting jack, a standard, a lifting bar vertically guided in the standard and having a rack, a lever pivoted to the standard for movement in a vertical plane, a pair of pawls engaging the rack, one at least of which is pivoted

on the lever, a link connecting the pawls, a spring secured at one end to the standard and engaging the link at the other and normally exerting a pressure on the link to



withdraw the pawls from the rack and means mounted on the lever for engaging the spring to reverse its action on the pawls.

1,401,762. CAR-DOOR. FRANCESCO COPPOLA, Elmira, N. Y. Filed Mar. 21, 1921. Serial No. 453,875. 3 Claims. (Cl. 20—22.)

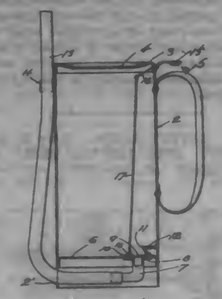


1. In combination, a car body provided in one side with a door-opening, a door for closing said opening, means coöperative with the bottom of the door for slidably supporting it, the upper end of the door being detached and freely movable away from the body, and a movably mounted combined weather-guard, guide and retainer coöperable with the upper edge of the door for normally retaining the latter in operative position and movable to a position to permit removal of the door from the car body and the door-supporting means.

1,401,763. DISPENSING VESSEL. WILLIAM H. DAMON, Los Angeles, Calif. Filed Dec. 11, 1919. Serial No. 344,180. 1 Claim. (Cl. 221—14.)

In a measuring and dispensing vessel, a container having a bottom that is elevated with respect to the lower edge of its wall, said elevated bottom being provided with a discharge opening, an L-shaped tubular connection secured to the underside of the bottom and communicating with the opening therein, a flexible tube having one end secured to said L-shaped connection, a substantially L-shaped valve hinged to the top of the bottom, the horizontal member of which L-shaped valve is adapted to normally close the discharge opening in the bottom, a compression spring interposed between the wall of the container and the upright member of the L-shaped valve,

which spring normally exerts pressure to maintain the valve in closed position, a thumb lever fulcrumed on the



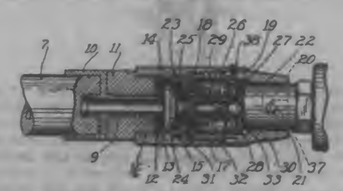
upper portion of the container, and a connection from the inner end of said thumb lever to the horizontally disposed portion of said L-shaped valve.

1,401,764. HITCH. ARVID A. DANIELSON, Manning, Iowa, assignor to Duitmeier Manufacturing Company, Manning, Iowa. Filed Aug. 23, 1920. Serial No. 405,432. 2 Claims. (Cl. 278—40.)



1. In a device of the class described a fixed tongue member having a pair of arms fixed to its sides near its forward end, a pair of plates fixed above and below said arms near their rear ends, the lower of said plates being slightly inclined, a second pair of plates fixed above and below said arms near their forward ends, one of said last plates being bent U shaped so as to have its center spaced from the upper plate a greater distance than the thickness of said arms, the parts being so arranged that said arms and said pairs of plates form a socket for receiving the rear end of a tongue having its under surface tapered as and for the purposes stated.

1,401,765. LUBRICATING SYSTEM. ERNEST W. DAVIS, Oak Park, Ill., assignor to The Bassick Manufacturing Co., a Corporation of Delaware. Filed June 3, 1920. Serial No. 386,153. 25 Claims. (Cl. 284—18.)



1. The combination with a lubricant receiving nipple, having a pin projecting from one side thereof, of means for supplying lubricant thereto, comprising a compressor having a coupling member for making a detachable connection with said nipple comprising a sleeve having a swivel connection with said compressor, and provided intermediate its ends with an annular flange forming a valve seat and the second sleeve having its inner end screw threaded into said first-mentioned sleeve, and its outer end provided with a bayonet slot for co-acting with

said gun, a valve seating endwardly upon said valve seat, and having a valve stem projecting loosely through the opening of said valve seat, the said valve stem being hollow and having an opening through the wall thereof, a gasket secured to the outer end of said valve stem for seating against the end of said nipple, a second gasket seating against said flange and sealing the joint between said sleeves, and a compression spring for holding said gaskets in spaced relation.

1,401,766. SAFETY RAZOR. JOHN H. D. EVERHART, Waukegan, Ill. Filed July 25, 1920. Serial No. 398,331. 4 Claims. (Cl. 30—72.)



1. A safety razor comprising a holder made from a single strip of metal, the central portion of said strip being serrated to form a guard, the ends of said strip being bent to form a blade holding frame and then brought together to form a handle, the arms of said frame being slotted to receive the edges of a razor blade; and means for forcing the arms of said frame together to clamp the blade in said slots, substantially as described.

1,401,767. MACHINE FOR FEEDING AND DRIVING NAILS. MAURICE S. FINCH, St. Joseph, Mo., assignor to Specialty Shoe Machinery Company, St. Joseph, Mo., a Corporation of Missouri. Filed July 11, 1919. Serial No. 310,270. 18 Claims. (Cl. 1—6.)



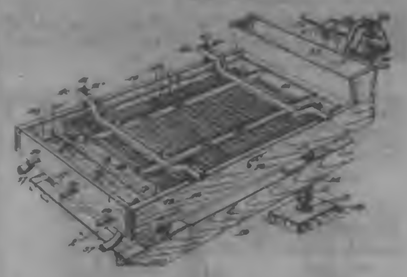
4. A nailing machine comprising, in combination, a nail driving mechanism, a nail hopper, and a nail raceway connecting said hopper and driving mechanism and including a movable raceway section maintained normally in position for receiving nails from the hopper and out of communicating relation with the remainder of the raceway, said movable raceway section being constructed and arranged to assemble a plurality of nails from the hopper and be moved by the weight of such plurality of nails into communicating relation to the remainder of the raceway for discharging said assembled nails therefrom.

1,401,768. MACHINE-GUN. ALBERT R. FISCHER, New York, N. Y. Filed June 25, 1921. Serial No. 479,486. 3 Claims. (Cl. 89—34.)



1. A machine gun comprising a body frame, a plurality of gun barrels extending from one side thereof, a casing removably enclosing said frame, cartridge carrying cylinders rotatable in said casing, spring impelled hammers pivoted to said frame, means for cocking said hammers and means cooperative therewith for rotating said cylinders.

1,401,769. APPARATUS FOR EXTRACTING METAL FROM ORE AND THE LIKE. HAROLD H. GODFREY, Los Angeles, Calif. Filed Nov. 17, 1920. Serial No. 424,451. 22 Claims. (Cl. 204—15.)



1. In a metal extracting apparatus, a member mounted for reciprocatory movement, metal plates carried by said member and disposed substantially parallel to each other, and a porous diaphragm arranged between said plates.

1,401,770. CLASP FOR DOCUMENTS, &c. ROBERT GOLDEN, Brooklyn, N. Y. Filed Nov. 4, 1921. Serial No. 512,755. 4 Claims. (Cl. 24—81.)



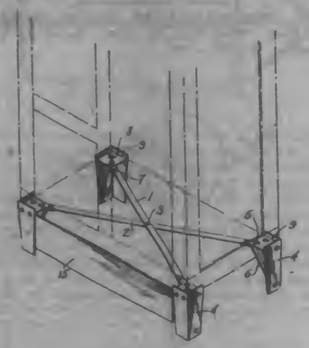
1. In a clasp for record containers, the combination comprising a base member having oppositely disposed arms rigidly connected thereto and projecting therefrom, an elastic strap member adapted to elastically connect the free ends of said arms and securely hold said clasp in any adjusted position on the outer surface of a container and a movable clip member, for retaining documents, movably secured to said base member intermediate said arms.

1,401,771. METHOD AND MACHINE FOR DRYING, CLEANING, AND POLISHING MOVING-PICTURE FILMS. JAMES W. GURNEY, Ridgefield Park, N. J. Filed June 12, 1920. Serial No. 388,673. 3 Claims. (Cl. 15—8.)



1. The method of drying, cleaning and polishing moving picture films consisting of winding said films upon a drum having an absorbent covering and then revolving said drum in such manner as to cause the absorbent covering to rub the surface of the film lying thereagainst.

1,401,772. LEG CONSTRUCTION. HERBERT J. GWYNN, Yonkers, N. Y. Filed July 26, 1920. Serial No. 398,976. 4 Claims. (Cl. 248—41.)



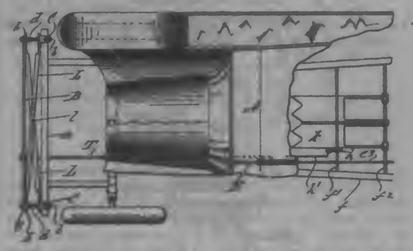
2. In a construction of the character described, a pair of bars pivoted to each other, a supporting leg mounted upon each end of each bar, each of said bars having a hinge joint therein whereby the bars may be folded together and the legs folded upon the bars.

1,401,773. STRIPPER FOR ROLLING-MILLS. PAUL C. HALDEMAN, Coatesville, Pa., assignor to Lukens Steel Company, Coatesville, Pa., a Corporation of Pennsylvania. Filed Sept. 4, 1919. Serial No. 321,514. 8 Claims. (Cl. 80—1.)



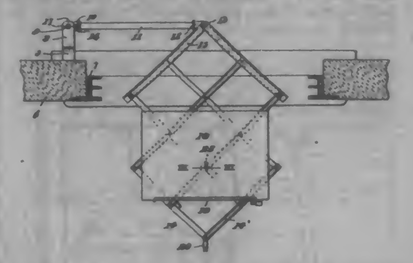
8. The combination, with a roll of a rolling mill, of a rest bar mounted adjacent the roll, and having a beveled upper surface with notched projections extending above the same, a stripper having a plurality of sections mounted upon said rest bar and engaging said projections and having an edge adapted to engage the roll; said stripper sections having their upper surfaces recessed, with ribs between the recesses for engagement with the plate passing over the roll; said recessed portions having inclined surfaces, and means for holding said stripper plates to the rest bar with their thin edges in engagement with the roll.

1,401,774. SAFETY APPLIANCE FOR VEHICLES. CARL HALPERN, Newark, N. J. Filed Oct. 20, 1920. Serial No. 418,322. 10 Claims. (Cl. 180—83.)



1. A safety appliance for vehicles of the character designated comprising in operative combination, an emergency brake lever normally manipulatable, a yieldably mounted frontal concussion bar, pivotally connected twin cross levers controlling said concussion bar, and an actuating thrust rod interposed between said concussion bar and said emergency brake lever, for the purpose described.

1,401,775. PROVISION-SAFE SUPPORT. ANDREW HALUSKA, Whiting, Ind. Filed Sept. 29, 1921. Serial No. 504,070. 3 Claims. (Cl. 40—104.)



3. In a device of the class described, an extensible lazy tong platform having a provision safe secured thereon near one end of the same, a handle for the platform at said end, and means connected to the other end of said platform and adapted to be secured to the outer face of the wall of a dwelling for permitting movement of the platform into and out of a window opening.

1,401,776. STOPPER FOR WASHBOWLS AND THE LIKE. MANSON C. HATTON, Ontario, Calif. Filed July 17, 1919. Serial No. 311,641. 3 Claims. (Cl. 4—35.)

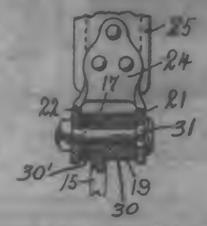
1. A stopper for the outlet of wash bowls and the like having a conical outlet seat, comprising a conical rubber plug adapted to fit said seat, said plug having a cup-shaped chamber for the insertion of the finger, whereby the plug may be inserted in the seat or removed there-

Crain, and having a thin external flange at the top thereof, said external flange being adapted to fit the surface of



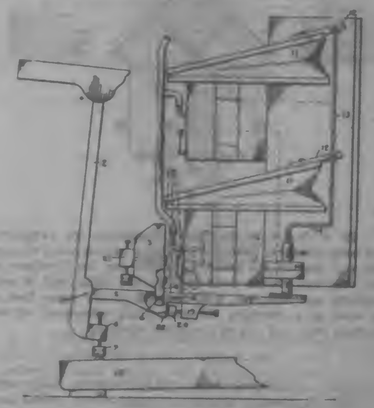
the bowl around the outlet, the top of the stopper when seated being substantially flush with the bottom of the bowl.

1,401,777. ICE-TONGS. JACOB G. HEIDT, Evansville, Ind. Filed Oct. 28, 1920. Serial No. 420,213. 2 Claims. (Cl. 287—109.)



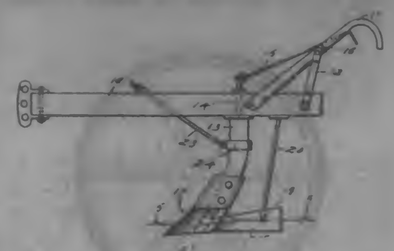
In a device of the class described, a tilt device including spaced perforated ears, a bolt extending through the perforations of said ears and built from turning therein, a sleeve rotative on said bolt between said ears with a reduced and externally threaded portion, a member mounted on said reduced sleeve portion, and a clamping washer engaging said reduced sleeve portion between one of said tilt ears and the rotative member.

1,401,778. PLAYER-PIANO ACTION. HENRY R. HELLER, New York, N. Y., assignor to Winter & Co., a Corporation of New York. Filed Dec. 10, 1919. Serial No. 343,737. 4 Claims. (Cl. 84—63.)



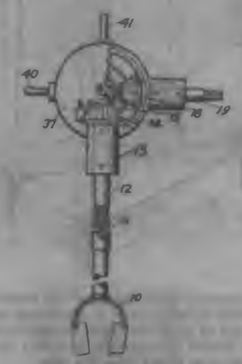
1. In combination with the piano action of a player piano, a link connecting the stickers to a fixed rail thereof, a lever pivotally connected to said link, a pneumatic and a pinpuncher operated by the said pneumatic adapted to operate said lever.

1,401,779. TURNING SHOVEL-PLOW. JACOB HAMMA, High Ridge, Mo. Filed June 19, 1920. Serial No. 389,510. 2 Claims. (Cl. 97—47.)



2. A plow having a beam, a plow member having a standard extending rearwardly therefrom, a bearing below the beam in which the standard is journaled, a diagonal rod extending from the beam connecting the bearing, a spindle on the standard journaled in the beam, handle bars in spaced relation rising from the beam, a toothed bar spanning said handle bars, an actuating member for the spindle to cooperate with the toothed bar, a hanger depending from the beam, a rod supported transversely of the hanger, wings for coöperation with the plow member having openings through which the rod extends, said rod having screw threads, and nuts on the rods cooperating with the interior walls of the wings to vary the position of the wings relatively to the mold board of the plow member.

1,401,780. POST-HOLE AUGER. OTTO W. HENSEL, Lakefield, Minn. Filed Sept. 30, 1920. Serial No. 413,747. 3 Claims. (Cl. 255—10.)

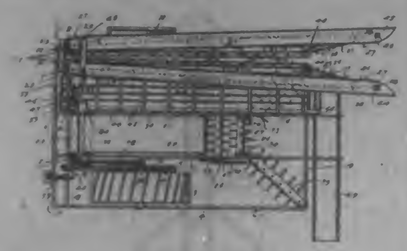


1. A device of the class described comprising a shaft for directly mounting an auger, a gear wheel keyed on said shaft, a double gear wheel having one series of teeth meshing with the gear wheel first named, a third gear wheel meshing with the other series of teeth on the second named gear wheel, a shaft carrier driven by the third gear wheel, a bearing inclosing said gear wheel, a driving shaft mounted on a stationary element and flexible device for imparting movement from the shaft last named to the shaft carrying the third gear wheel.

1,401,781. CORN-HARVESTER. HOWARD B. HOLMES, Montrose, Iowa. Filed Mar. 21, 1917. Serial No. 156,223. 8 Claims. (Cl. 56—106.)

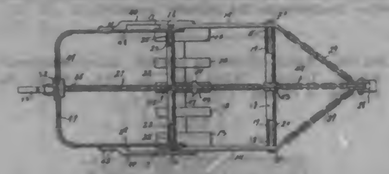
1. In a corn harvester, means for gathering prostrate stalks comprising raking elements disposed transversely

of the line of movement of the harvester, other raking elements located in advance of the first mentioned elements and disposed at angles thereto and lying at acute



angles of the line of draft of the harvester, means for operating said raking elements, a conveyer adapted to receive the stalks from the raking elements and snapping rolls located adjacent the delivery end of the conveyer.

1,401,782. EXCAVATING-BUCKET. VILAS H. JACKSON, Cleveland, Ohio. Filed June 28, 1920. Serial No. 392,236. 7 Claims. (Cl. 37—19.)



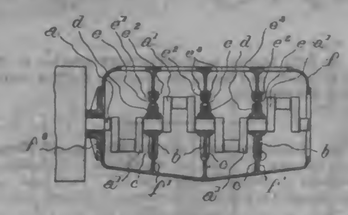
1. In an excavating bucket, a shell, a ball embodying side arms pivotally connected with said shell at its forward end adjacent the bottom thereof, said ball being adapted to be adjustably positioned about the pivots thereof, a chain guide secured to the rear end of said shell approximately centrally thereof, a chain secured at one end to the exterior of the rear end of said shell, a cross arm connecting the side arms of said ball, said chain extending through said guide and being secured to said cross arm, and a tooth carried by each of said side arms, said teeth being out of engagement with the ground when the side arms are horizontally disposed and engaging the ground as the arms are shifted to the vertical position.

1,401,783. GRATE-BAR. AUGUST JOHNSON, Portland, Oreg. Filed Oct. 17, 1919. Serial No. 331,357. 1 Claim. (Cl. 126—107.)



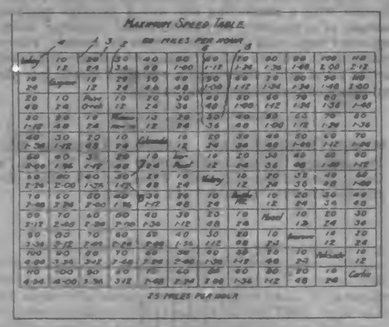
A grate structure having bars spaced apart at adjacent ends and with said ends chamfered for the purpose specified, supporting means for said bars adjacent said ends having a passageway therethrough in communication with the space intermediate the ends and with the ashpit, said bars each having a recess with a substantially straight side wall and the opposite side wall deflected relatively thereto so that the recesses will be widest at the entrance, said support having a projection on each side of the passageway to enter the recesses and conforming substantially to the shape of the recesses, and said bars having lateral ribs terminating relatively close to said projections whereby ashes will not accumulate on the supporting member but will be directed through the passageway.

1,401,784. ENGINE OR MOTOR. HENRI VICTOR JULES JOUFFRET, Neuilly-sur-Seine, France, assignor to The Society "Anciens Etablissements Caffort Freres," Paris, France. Filed Dec. 15, 1919. Serial No. 345,086. 9 Claims. (Cl. 64—10.)



1. In combination a crank case, a web in said crank case having an aperture therethrough, a crank shaft, a bearing surrounding said crank shaft provided with extensions, said bearing and extensions being freely insertible within the aperture in said web, adjusting means coöperable directly with one of said extensions for forcing said extensions into clamping engagement with the periphery of the aperture in said web.

1,401,785. SPEED-TABLE. LEON L. KAISER, Lodi, Calif. Filed Feb. 15, 1921. Serial No. 445,171. 3 Claims. (Cl. 283—32.)



1. A speed table characterized by a diagonal line of spaced station names, side by side upright columns, in each of which is arranged one station name, horizontal columns intersecting the upright columns and in each of which is arranged one station name, and the indicating figures representing miles and time, respectively, arranged in the divisions accorded by the upright and horizontal columns, above and below all of the intermediate station names, and below the station name at one end of the table and above the station name at the opposite end of the table.

1,401,786. TRAILER. HENRY KAFFMANN, Boulogne-sur-Seine, France. Filed Jan. 2, 1920. Serial No. 348,099. 8 Claims. (Cl. 280—33.4.)

2. In a trailer, a frame, a shaft, means for holding the shaft approximately vertically in operative relation to the

frame to permit rotary motion of the shaft and movement axially, a traction wheel having a bearing connected to the



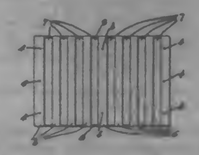
shaft, the said bearing being offset with relation to the axis of the shaft, and means for retarding the free rotary motion of the shaft.

1,401,787. JOINING-EQUALIZER FOR WOODWORKING. WILLIAM J. KARMEN, Shelbyville, Ind., assignor to Edward A. Swain, Shelbyville, Ind. Filed Apr. 16, 1920. Serial No. 374,287. 2 Claims. (Cl. 144—134.)



1. In a machine for working wood and the like, the combination with a supporting bed, and a carriage mounted thereon, of a plurality of parallelogram centering means supported upon said bed and movable in parallel planes transverse to said bed and carriage, and a single means for moving all of said parallelogram centering means into the centering position adjacent said carriage.

1,401,788. RUBBER MAT. JEREMIAH KELLEHER, Erie, Pa., assignor to Continental Rubber Works, Erie, Pa., a Corporation of Pennsylvania. Filed Jan. 29, 1921. Serial No. 439,984. 1 Claim. (Cl. 15—215.)



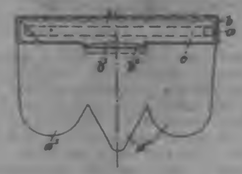
A rubber mat having ribs on its upper and lower surfaces, the ribs on the lower surface being arranged transversely to the ribs on the upper surface.

1,401,789. DUST-CLEANING SUCTION-PUMP. OTIS M. KENNEDY, Philadelphia, Pa. Filed Mar. 28, 1919. Serial No. 285,790. 5 Claims. (Cl. 230—27.)

1. A dust-cleaning suction pump of the class described, comprising in construction, a cylinder, piston and piston rod, a suction nozzle, including means to secure it to the cylinder head, said nozzle having a yieldable contact face and an axially-disposed passage leading therefrom directly to the interior of the cylinder; valvular means operable to keep said passage normally closed and to open it by the suction stroke of the piston, and dust-discharging valvular means mounted on the periphery of the cylinder, normally out of communication with the atmosphere and operable to be opened by the return stroke of the piston to discharge the cylinder contents.



1,401,790. HEEL-GRIP FOR SHOES. DAVID KENNEDY, Belfast, Ireland. Filed Apr. 6, 1921. Serial No. 459,968. 4 Claims. (Cl. 90—24.1.)



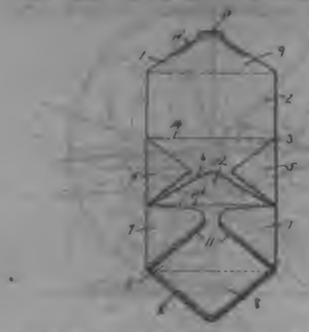
1. A heel grip for use in shoes, comprising a backing of pliable material formed with a slit therein, a cover portion having a tongue secured in engagement with the slit and forming a casing at the top of the backing, and tensioning means in said casing.

1,401,791. WATERPROOF COMPOSITION. LESTER KIRSCHBRAUN, Evanston, Ill. Filed May 9, 1921. Serial No. 468,034. 7 Claims. (Cl. 134—13.)

2. A stock capable of being felted on a paper-forming machine and consisting of a normally adhesive pitchy binder dispersed in an aqueous vehicle with an emulsifying agent and forming a non-adhesive emulsion, and fibrous pulp, mixed with the emulsion.

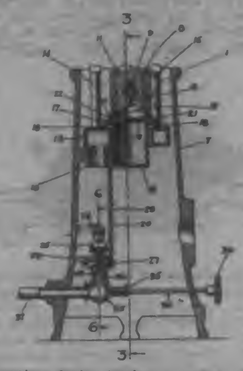
1,401,792. ENVELOP. OTTO G. KLEIS, Ste. Genevieve, Mo. Filed June 1, 1920. Serial No. 385,695. 4 Claims. (Cl. 229—73.)

3. A duplex envelop including a blank consisting of upper, intermediate and lower wall sections, said lower section being provided with flaps to constitute an inner envelop, the intermediate section being provided with side flaps foldable upon the inner envelop and inside of the outer envelop, said intermediate and lower wall sections being foldable upon the upper wall section, and a



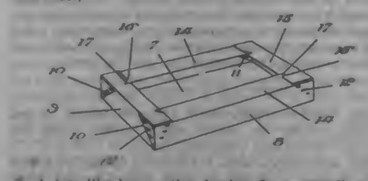
sealing flap carried by the upper wall section for sealing the outer envelop.

1,401,793. HEATING DEVICE. KARL W. KNAPP, Des Moines, Iowa, and WALTER G. HOLMES, Minneapolis, Minn., assignors to M. F. Patterson Dental Supply Company, St. Paul, Minn., a Corporation of Illinois. Filed Mar. 23, 1921. Serial No. 454,819. 11 Claims. (Cl. 263—9.)



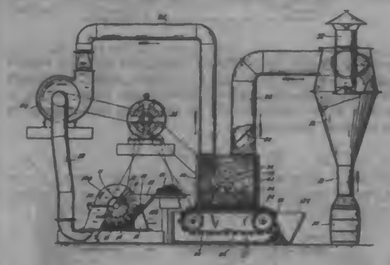
1. A heating device having a casing, means in said casing to support an object to be heated, hollow means in said casing disposed about said object and adapted to discharge gas tangentially to said object, and means to supply a combustible gas to said hollow means.

1,401,794. BOX. SAMUEL KOFF, New York, N. Y. Filed Dec. 31, 1920. Serial No. 434,341. 3 Claims. (Cl. 229—16.)



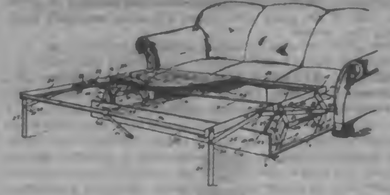
3. A tray-like box section having flaps extending from its walls to overlap one another and overlie the contents, some of said flaps having slits extending from the edges thereof opposite to the corresponding walls and forming tabs to be snapped over the edges of the other flaps for holding the flaps in overlapping relation.

1,401,795. METHOD AND APPARATUS FOR SEPARATING RUBBER AND FIBER. CHARLES W. KOHLER and HARRY A. HOFFMAN, Akron, and WALTER B. FREEMAN, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed June 23, 1920. Serial No. 391,178. 11 Claims. (Cl. 18—2.)



1. The method of separately recovering fiber and rubber from a disintegrated mixture of the two which comprises propelling the mixture on an air current, selectively separating the rubber from the mixture and then separating the fiber from the air current.

1,401,796. FOLDABLE BED. OTTO KONRAD, Oshkosh, Wis. Filed Apr. 3, 1920. Serial No. 370,954. 5 Claims. (Cl. 5—51.)



1. A device of the class described, comprising a supporting member, a sectional connected together bed frame, means connecting each end of one frame section with said supporting member and including pairs of pivotally connected together link members having their outer ends pivotally connected with the adjacent sides of said frame section and said supporting member, an operating rod mounted at each side of the frame and having one end connected with the connecting pivot of one pair of link members and its other end slidably connected with the adjacent side of the other frame section, a supporting leg for each side of said other section and having its upper end pivotally secured to the adjacent side thereof, and means connecting each supporting leg and with the adjacent operating rod, said means being connected with each rod at its slidably mounted end and with each supporting leg at a point spaced from its pivotal connection with the other frame section.

1,401,797. MOTOR-CAR. ACHILLE LANDINI, Cameri, Italy. Filed May 29, 1919. Serial No. 300,566. 5 Claims. (Cl. 180—1.)

5. In a motor car a frame consisting of two longitudinal beams underhung in respect of the axles and supported

assembly at substantially right angles to each other and of which one is pivoted to the upward free extremity of the former and the other to an upright erected on said former, of cross bars interconnecting said longitudinal bars and projecting laterally therefrom to support the side steps, and



the motor on the former and a chain, and sprocket wheels to drive the rear axle and of a sheet metal mudguard surrounding all the sprockets between the inner edges of the side steps, substantially as described and shown, in the annexed drawings.

1,401,799. RAILWAY-SWITCH HEATER. WILLIAM T. LAWLOR, Jersey City, N. J. Filed Mar. 31, 1921. Serial No. 457,231. 5 Claims. (Cl. 246—428.)



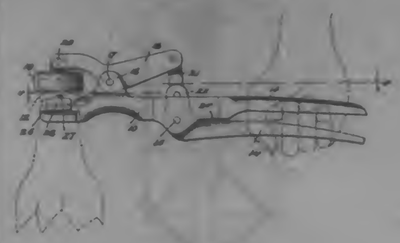
1. In a heating device for railway switches, the combination with a system of pipes, a reservoir from which said pipes are adapted to convey fluid fuel, and a plurality of open topped pans located beneath the rails and communicating with the pipes, of covers adapted to cover the tops of the pans, and means for simultaneously operating the covers.

1,401,799. SPARK-PLUG. JAMES JOHN LESTER, Jr., Green Bay, Wis. Filed Aug. 20, 1920. Serial No. 404,876. 2 Claims. (Cl. 123—169.)



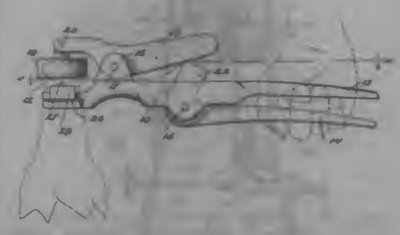
1. In a spark plug including a conductor rod having an electrode formed with a segmental face curved longitudinally of the axis of the rod, and a curved electrode spaced uniformly from the segmental electrode with its inner face curved reversely to the curvature of the longitudinally curved face of the segmental electrode, whereby the arc is diffused downwardly in the direction of the fuel charge.

1,401,800. BOTTLE-CAPPING DEVICE. ELLSWORTH M. LETTS, Waverly, N. Y., assignor of forty-nine one-hundredths to Charles C. Annabel, Waverly, N. Y. Filed Aug. 7, 1920. Serial No. 402,009. 18 Claims. (Cl. 226—84.)



1. A bottle capping device including in combination, a member adapted to straddle the neck of the bottle below the shoulder thereon, a lever pivoted intermediate its ends on one side of said member and having a cap applying cup at one end thereof, actuating means hinged to said member on the side opposite to the cup carrying lever.

1,401,801. BOTTLE-CAPPING DEVICE. ELLSWORTH M. LETTS, Waverly, N. Y., assignor of forty-nine one-hundredths to Charles C. Annabel, Waverly, N. Y. Filed Aug. 18, 1920. Serial No. 404,335. 5 Claims. (Cl. 226—84.)



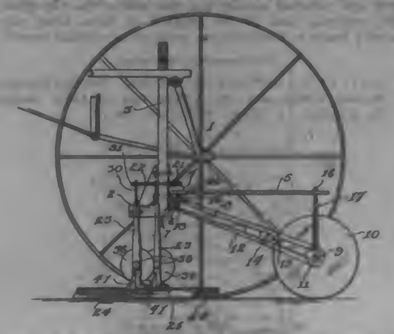
1. A bottle cap applying tool including in combination, a member adapted to receive a bottle and hold it against movement when the cap is applied, said member having a hand grip portion, a lever pivoted intermediate its ends on the upper side of said member and having a cap applying cup hinged at one end, a second lever pivoted to said member in a transverse plane through but near the end of said first mentioned lever with a part projecting from the pivot to and making sliding contact with said first mentioned lever to swing the same and a handle part extending from the pivot along and in the longitudinal plane of said hand grip whereby said hand grip and handle part may be grasped in the hand to operate the tool

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1,401,802. ATTACHMENT FOR CULTIVATORS. ELMER E. LILES, Ulen, Minn. Filed Aug. 3, 1920. Serial No. 402,111. 3 Claims. (Cl. 55—64.)

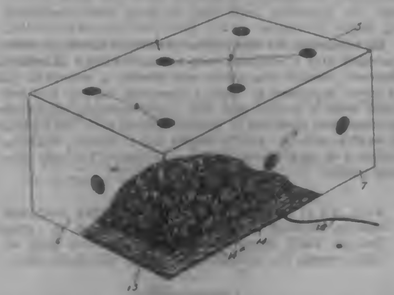
1. The combination with a cultivator frame, of a post secured thereon, a cultivator blade carried by the lower end of said post, a rotary cutter mounted on said post

adjacent and above the blade, deflecting plates secured to the post to divert vines from the blade to the cutter,



and means supported on the cultivator frame for positively actuating said cutter.

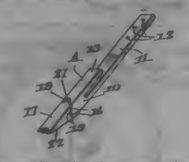
1,401,803. FIRE-KINDLING DEVICE. FRED LYNDS, Johnstown, N. Y. Filed Aug. 6, 1920. Serial No. 401,668. 1 Claim. (Cl. 44—40.)



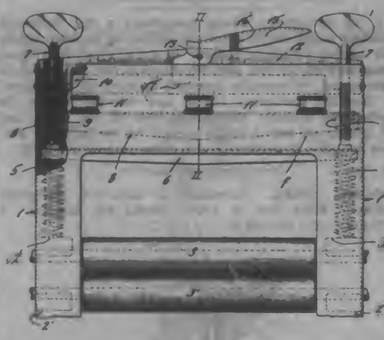
A fire kindler comprising a receptacle formed of inflammable material, a packing for said receptacle, said packing consisting of materials of different character, one of which is of highly inflammable nature, a wrapper for inclosing said highly inflammable material, the other material comprising charcoal loosely packed within the first-mentioned receptacle, and a fuse for igniting the highly inflammable material, said highly inflammable material serving to subsequently light the charcoal, substantially as described.

1,401,804. DIPPER TOOTH DESIGNED FOR USE ON SHOVELS. SHOW FREEMAN MACDOUGALD AND EDWARD ERNEST BOHAN, Cap Tourmente, Quebec, Canada. Filed June 1, 1920. Serial No. 385,718. 1 Claim. (Cl. 37—56.)

A dipper tooth comprising a body portion formed with upper and lower walls tapering to a point and having a central recess therein, U-shaped dovetail recesses on the upper and lower faces of said body portion, a shank for the body portion having orifices therein, an arm partially extending, parallel with and spaced from said body portion to receive the edge of the dipper between said arm and said shank, a tooth having a removable point and provided with a pair of dovetailed lugs adapted to fit the dovetail recess in the faces of the body portion, V-shaped recesses in the side walls of the tooth-point to engage with the tapered edges of the upper and lower walls of the body portion, a center web intermediate of the said V-shaped recesses in the tooth point adapted to engage the central recesses in the body portion, securing means passing through the tooth point lugs and through the body portion.

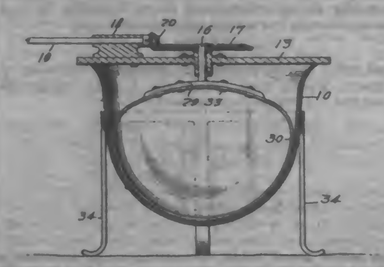


1,401,805. CLOTHES-WRINGER. WILLIAM H. MEYER, St. Louis, Mo., assignor, by mesne assignments, to The Davis Sewing Machine Company, a Corporation of Delaware. Filed Feb. 7, 1920. Serial No. 357,052. 6 Claims. (Cl. 68—32.)



1. In a wringer, a frame, a pair of wringer rolls, yielding means for forcing one of said rolls toward the other, a movable thrust-receiving member mounted in said frame and subjected to the pressure of said yielding means, and a breakable bridge extending across said frame and cooperating with said movable thrust-receiving member to retain said yielding means under pressure, said breakable bridge including a pair of wings, a pressure releasing device spanning the inner margins of said wings and pivots connecting the outer margins of said wings to said frame, the axes of said pivots being approximately parallel with the axes of said wringer rolls.

1,401,806. STIRRING DEVICE FOR CALDRONS. FREDERICK MILHAMN, Dwight, Ill. Filed May 12, 1921. Serial No. 469,026. 2 Claims. (Cl. 259—107.)



1. A hoop-shaped scraper composed of yielding material adapted to conform and hold itself in direct contact with

a container having a curvilinear bottom, and means to vary the circumferential extent of the scraper to adapt it to bottoms of different radii.

1,401,807. ADVERTISING-SIGN FIGURE. William B. Mitchell, Montgomery, Ala. Filed Sept. 28, 1921. Serial No. 503,857. 4 Claims. (Cl. 40—126.)



2. An advertising device comprising a flat vertically arranged sheet cut to form the outline of desired figures and having openings therein to form eyes, said sheet being painted on one side to simulate the figures to be represented, of movable members secured to said sheet, an inverted stationary bottle, and common means for moving the movable elements carried by the sheet, and for forcing air into a liquid carried by the bottle to produce bubbling therein, as and for the purpose set forth.

1,401,808. HEEL. Napoleon A. Mushels, Haverhill, Mass. Filed Nov. 8, 1920. Serial No. 422,606. 1 Claim. (Cl. 36—34.)



As an article of manufacture, a heel provided with a centrally disposed vertical bore extending therethrough, being uniform in diameter and provided at its opposite ends with counterbores, the bottoms of which are formed with beads, and a tubular reinforcing pin fitting snugly in said bore and having rolled anchoring and retaining flanges formed at its opposite ends and coöperative with the beads in said counterbores, said flanges having the additional function of compressing the fibers of the heel between them to decidedly reinforce the heel, said pin being provided with a longitudinal exteriorly disposed anchoring rib of considerable length embedded in said heel and serving the several functions described.

1,401,809. POCKET PENCIL-HOLDER. Edward J. Morin, Wynot, Nebr. Filed Mar. 1, 1921. Serial No. 448,804. 1 Claim. (Cl. 24—11.)



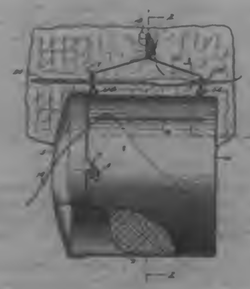
A pocket pencil holder comprising a clip including a plate having slits adjacent its opposite edge portions and having spring retainers forming a part thereof, and a resilient member comprising a flexed or crimped plate and having terminal extensions to pass through the said slits and clinched against the rear side of the clip plate, the resulting ends of the crimped or flexed being outwardly flared to facilitate the entrance of articles therein.

1,401,810. AUTOMATIC FILTER. George Ernest Morris, Hackensack, N. J. Filed July 14, 1919. Serial No. 310,544. 1 Claim. (Cl. 210—158.)



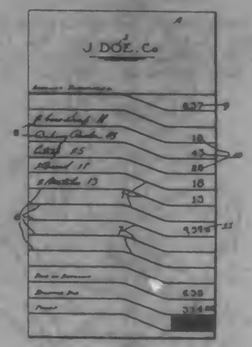
An apparatus for the purpose described having a retort provided with a regulable drip nozzle, a filtrate receptacle disposed beneath the retort and having a removable lid or cover depressed to form a concaved surface and provided with a central seat and communicating extensions forming inlet openings in communication with the interior of said receptacle, and a funnel for a filtering material mounted in said seat in position to receive the drip from said nozzle.

1,401,811. THREAD AND IMPLEMENT HOLDER. George Michael Myers, Jr. Charleston, S. C. Filed Dec. 16, 1919, Serial No. 345,591. Renewed July 15, 1921. Serial No. 485,807. 9 Claims. (Cl. 223—56.)



1. An appliance of the character specified, comprising a thread container provided in a side with a thread opening, a cover removably fitted to one end of the container, and a suspending fastener attached to the container and provided with a centrally disposed suspending clasp and terminal eyes and clamps, the eyes serving as the connecting means between the ball and container and the clamps as holding means for a crochet needle.

1,401,812. SALES-SLIP. Raymond P. Packard, Tacoma, Wash. Filed Mar. 3, 1921. Serial No. 449,283. 3 Claims. (Cl. 283—60.)



1. A sales slip ruled to provide a plurality of parallel staggered lines, each of said lines including an offset portion whereon the price of an article is listed and another portion whereon the price of said article is copied by a machine.

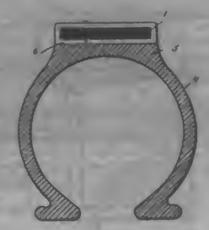
1,401,813. TOY SPINNING-TOP. Joseph Popper, Brooklyn, N. Y., assignor, by direct and mesne assignments, of one-half to Baird-Daniels Co., Inc., New York, N. Y., a Corporation of New York, and one-half to Ruby H. Popper, Brooklyn, N. Y. Filed Oct. 19, 1920. Serial No. 417,955. 5 Claims. (Cl. 46—52.)



1. A toy spinning top comprising a body, a hollow support connected with said body provided with a supporting point, a handle provided with an extension engaging said support, said handle having an aperture adjacent the top and adjacent the bottom, a shaft loosely positioned in said apertures and a plate rigidly secured to said shaft applied with a configuration thereon whereby when the top is spinning the plate and shaft will be rotated through the action of friction and the various parts of said plate will be spun around at a speed slower than the handle.

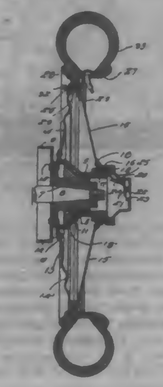
1,401,814. PNEUMATIC TIRE. Leonard R. Poschadel, Milwaukee, Wis. Filed Feb. 23, 1916. Serial No. 80,054. 5 Claims. (Cl. 152—16.)

1. A tread member for pneumatic tires comprising a core consisting of a plurality of flexible metal strands arranged in parallel abutting relation, and a casing for the core consisting of a wire having a high degree of



elasticity and coiled transversely about the core with its convolutions in contact with each other and with the core.

1,401,815. DEMOUNTABLE AUTOMOBILE-WHEEL. George E. Powell, Chicago, Ill. Filed Dec. 17, 1919. Serial No. 345,473. 6 Claims. (Cl. 301—63.)

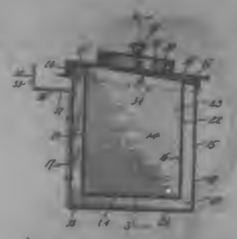


1. A device of the class described having a hub section provided with a bearing portion, a second bearing portion, a conical portion connecting said portions, a wheel, a hub for the wheel having a conical portion and bearing portions, interengaging means on the conical portions, one of the bearing portions having external screw threads, a collar associated with the wheel engaging said screw threads, one of the bearing portions of the hub section projecting beyond the hub and having screw threads thereat, and a nut to abut the collar having a flange provided with screw threads to engage the latter screw threads.

1,401,816. WINDOW PROVISION-BOX. Max Rachlin, New York, N. Y., assignor of one-half to Samuel M. Gold. Filed Apr. 26, 1920. Serial No. 376,814. 1 Claim. (Cl. 45—104.)

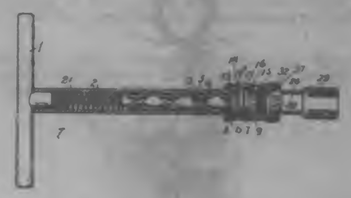
A window provision-safe, comprising an outer receptacle, an inner receptacle spaced therefrom, a frame connecting the upper edges of said receptacles so as to provide a single closed space therebetween, said frame serving also to space said receptacles, a lid hinged to one of the upper edges of said outer receptacle, and downwardly projecting flanges on the free edges of said lid overhanging the walls

of said outer receptacle, the upward edge of said lid projecting beyond said receptacle and being adapted to abut



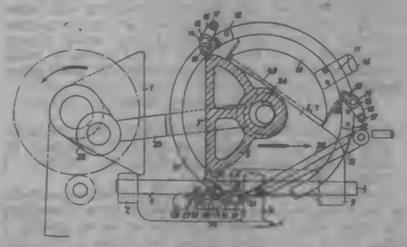
against the respective wall of said outer receptacle when said lid is in open position, the baffles and certain walls of said outer receptacle being provided with apertures.

1,401,817. WRENCH. OREN F. ROBERTS, Kansas City, Mo., assignor to Frederick B. Cassaire, Chanute, Kans. Filed May 26, 1920. Serial No. 384,283. 2 Claims. (Cl. 81—60.)



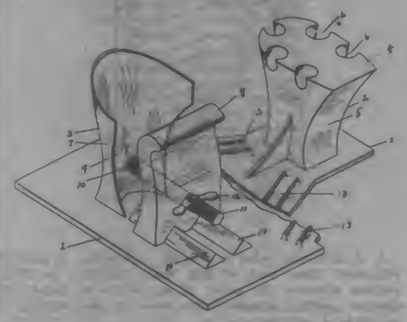
2. In a wrench, a shank handle, a screw reciprocative therein having two reversely disposed threads, two ratchet members respectively fitted to said threads and rotatable on said screw, the shank handle having a longitudinal slot, and a pawl slidably fitted in said slot to two positions in which it will alternately lockingly engage said ratchet members, and in an intermediate position simultaneously lockingly engage both of said ratchet members, substantially as set forth.

1,401,818. PLATEN-PRESS. MAX ROCKSTROH, Klein-Sedlitz, near Pirna, Germany. Filed Oct. 12, 1920. Serial No. 416,584. 8 Claims. (Cl. 101—287.)



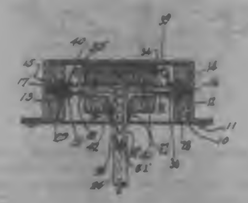
2. In a platen press, the combination with a platen, means for rectilinearly actuating said platen, a drum rotatable about said platen comprising spaced rings connected by transverse rods, grippers mounted upon said drum and cooperating means on said platen and drum for rotating said drum through the motion of said platen.

1,401,819. DEVICE FOR USE IN ATTACHING HEELS TO SHOES. SAMUEL G. SHARMAN, New York, N. Y. Filed Dec. 22, 1919, Serial No. 346,641. Renewed May 14, 1921. Serial No. 469,481. 2 Claims. (Cl. 12—125.)



1. In a device of the character described in combination, a supporting base, an upstanding metal block thereon having an end to fit in an inverted shoe and having upward recesses around its upper edge to receive nails penetrating said shoe, and an upstanding adjustable clamp on said base to receive a shoe heel.

1,401,820. PORTABLE ELECTRIC LAMP. LAURA E. SILLS, St. Paul, Minn. Filed Nov 16, 1920. Serial No. 424,415. 3 Claims. (Cl. 240—70.)



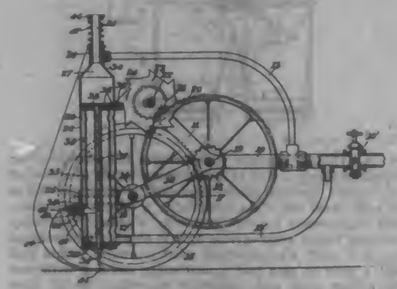
1. A portable electric element, comprising in combination, a receptacle containing a pair of electrical conductors insulated therefrom and in substantially parallel arrangement therein, said receptacle having an upwardly extending slot in its side and having a doorway at one end connecting with said slot and a movable electrical device having a pair of brush contacts, said device being adapted to pass through said doorway into said slot and being slidably supported in said receptable through said slot, said brush contacts being adapted to slidably and separably connect with said conductors.

1,401,821. PERFORATING DEVICE. HARRY A. SILVERMAN, New York, N. Y. Filed May 21, 1920. Serial No. 383,108. 8 Claims. (Cl. 164—125.)



1. A perforating apparatus comprising a revoluble member having a serrated edge, and a frame including a yoke and bearings on which the revoluble member is journaled and through which yoke and the said bearings gas is supplied to heat the revoluble member.

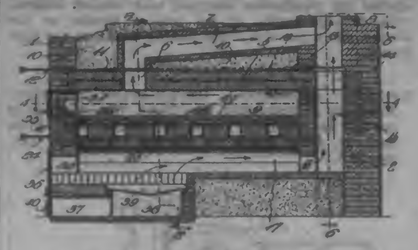
1,401,822. PERFORATING APPARATUS. HARRY A. SILVERMAN, New York, N. Y. Filed July 10, 1920. Serial 395,321. 5 Claims. (Cl. 164—89.5.)



1. A perforating apparatus comprising a frame, a traction wheel mounted therein, a heater element movably mounted in the frame, a perforating iron in the heater element, and means actuated from the traction wheel for moving the said heater element and perforating iron in said frame.

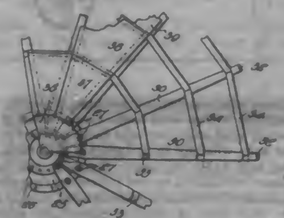
1,401,823. BAKER'S OVEN. GEORGE F. SMITH, Baltimore, Md. Filed Apr. 11, 1921. Serial No. 460,196. 3 Claims. (Cl. 107—55.)

1. A bake oven having a combustion chamber and a baking chamber above the same, the rear wall of the oven being provided with a smoke flue leading from the combustion chamber and communicating with a chimney and upon opposite sides of the smoke flue provided with flues leading from the combustion chamber and communicating with the baking chamber, the portions of the rear wall between the second mentioned flues and baking chamber being provided with air pockets forming spaced apart wall sections, a conduit leading from an opening adjacent



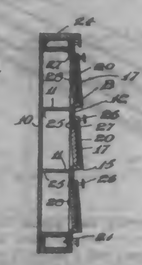
the forward end of the roof of the baking chamber and communicating with the chimney, and separate damper elements for the flues and conduit.

1,401,824. ROTARY OVEN. GEORGE F. SMITH, Baltimore, Md. Filed Apr. 11, 1921. Serial No. 460,197. 3 Claims. (Cl. 107—60.)



1. A turn-table for a baker's oven, said table comprising a rotatable shaft, a hub element carried thereby, radiating arms carried by the hub, said arms being provided in their upper faces with transversely extending V-shaped grooves forming countersunk seats, cross bars extending between the arms and having their ends fitting into the seats and meeting in end to end contact, and a top resting upon the arms and cross bars.

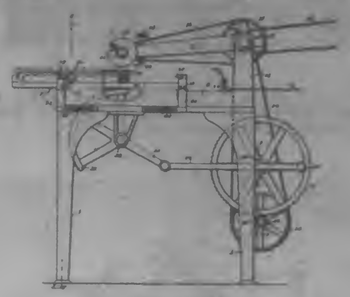
1,401,825. TOBACCO-DISPLAY CASE. FREDERICK JAMES SQUIRE, Havelock, Ontario, Canada. Filed Feb. 12, 1921. Serial No. 444,398. 1 Claim. (Cl. 211—7.)



A plug tobacco display device, comprising a casing having a plurality of shelves, the front wall on the casing being formed with longitudinal openings, frame doors hinged to the front wall adjacent the openings and designed to close the same, intermediate members in the doors, transparent members engaging the rear face of the

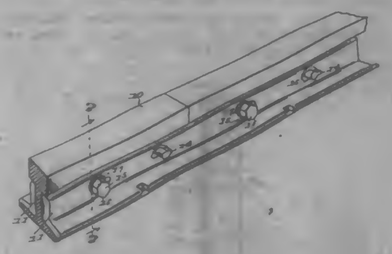
door frames and the intermediate members, a board removably disposed in the frame and designed to retain against the transparent members, cuts, colored illustrations or photographs of the tobacco located on the shelves, and a pin and socket locking means on the door frames.

1,401,826. AUTOMATIC DUPLICATING MACHINE. THOMAS A. STOCKWELL, Eau Claire, Wis., assignor of one-half to Arthur L. Ferst, Eau Claire, Wis. Filed Sept. 11, 1920. Serial No. 409,784. 7 Claims. (Cl. 90—13.5.)



1. An automatic duplicating machine, including a base, a table slidable within said base, a rack secured to said table, a sector gear engaging said rack, means for rocking said sector gear whereby to reciprocate said table, a deck secured to said table, a screw threaded rod rotatably mounted upon said table, means providing engagement between the deck of said table and said rod, a pair of stops secured to said base, a ratchet carried by said rod, a pawl carried by each of said stops and adapted to engage said ratchet when said table is reciprocated, whereby said rod will be rotated to move the deck of the table, and a cutter and tracing member adapted to overlie said deck.

1,401,827. RAIL-JOINT. SAMUEL F. STILLWELL, Grafton, W. Va. Filed Oct. 3, 1921. Serial No. 505,099. 2 Claims. (Cl. 238—251.)



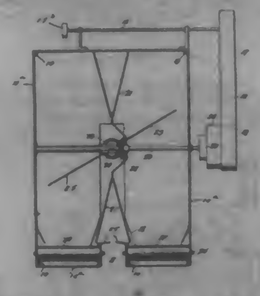
2. A rail joint having fish plates connected through the rail by a transverse bolt provided at its extremities respectively with a head and a laterally projecting web or wing, a spring washer interposed between the head of the bolt and the outer surface of the adjacent fish plate, the other fish plate being provided with a progressively deflected face for engagement by the inner edge of the web or wing, the said deflected face terminating in a seat of V-form and the engaging edge of the web being of corresponding form.

1,401,828. WRENCH FOR BATTERY TERMINALS. WALTER E. SWEARINGEN, Montgomery City, Mo. Filed Apr. 26, 1921. Serial No. 464,851. 4 Claims. (Cl. 81—61.)



1. A tool for the purpose described having a holding ring provided with a perpendicularly disposed anchoring arm for engagement with a battery terminal block, a socket jaw and an operating ring revolubly mounted upon the holding ring and respectively carrying a ratchet and a dog for engagement therewith, an operating handle being connected with said operating ring.

1,401,829. BEAN-HARVESTER. HERMAN H. SWINDELL, Raleigh, N. C. Filed July 8, 1919. Serial No. 308,230. 2 Claims. (Cl. 56—10.)

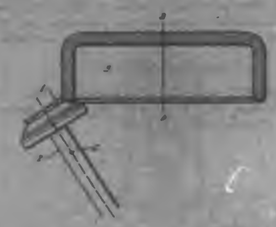


1. In a bean harvester comprising a body adapted for propulsion along a field in straddling relation to a row of bean plants, beating mechanism for knocking the beans and pods from the vines comprising a driven shaft journaled transversely through said body, a pair of oppositely extending beater arms carried by said shaft, a gear secured upon said shaft, a longitudinal shaft journaled within said body, a gear on said last named shaft meshing with said first named gear, and oppositely extending beater arms carried by said second named shaft, said first named beater arms rotating in a vertical plane longitudinally of the bean rows and said second named beater arms rotating in a vertical plane transversely of the bean rows, and said pairs of beater arms being timed for non-interference.

1,401,830. METHOD OF GRINDING GLASS. WILLIAM TAYLOR, Leicester, England. Original application filed Oct. 28, 1916, Serial No. 128,235. Divided and this application filed Oct. 28, 1920. Serial No. 426,078. 2 Claims. (Cl. 51—278.)

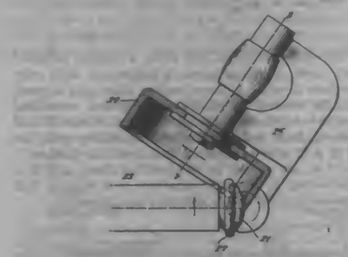
1. The method of grinding a convex spherically curved surface upon a flat disk of glass, which comprises rotating the disk upon an axis passing through the surface to be ground, forming in the surface to be ground a circular step having its center on the axis of rotation of the disk, grinding back said step to said axis by bringing successive portions of the side of the step into contact with a grinding

surface moving along the portion of the side of the step with which it is in contact, and decreasing the depth of the step as it is ground inwardly while varying the angle of the



side of said step to the original surface of the disk so that it is acute at the beginning of the operation and substantially a right angle at the end of the operation.

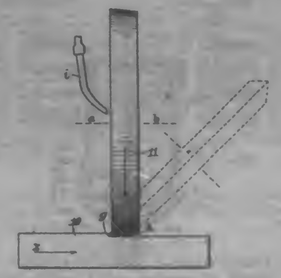
1,401,831. METHOD OF AND APPARATUS FOR GRINDING GLASS. WILLIAM TAYLOR, Leicester, England. Original application filed Oct. 28, 1916, Serial No. 128,235. Divided and this application filed Oct. 28, 1920. Serial No. 426,077. 4 Claims. (Cl. 51—278.)



1. The method of grinding curved surfaces of glass and the like hard non-plastic materials, which comprises rotating the glass to be ground upon an axis passing through the surface to be ground, applying the annular edge of a rapidly rotating grinding wheel to the surface to be ground, the grinding wheel being set with its axis of rotation to one side of a plane parallel thereto and containing the axis of rotation of the glass, the axis of rotation of the grinding wheel being at an acute angle with the axis of rotation of the glass, and the grinding edge of the wheel passing approximately through the axis of rotation of the glass as it sweeps over the surface thereof, the annular edge of the grinding wheel being shaped to form an abrupt step between the ground surface and the original surface of the glass on one side of the axis of rotation of the latter and to contact with the ground surface adjacent the step only at the base of the step, the rate of rotation of the glass being such that a substantial portion of the material removed is removed by splintering the side of the step.

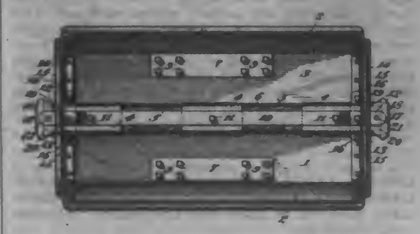
1,401,832. METHOD OF GRINDING GLASS. WILLIAM TAYLOR, Leicester, England. Filed Oct. 28, 1916, Serial No. 128,235. Renewed June 13, 1921. Serial No. 477,848. 4 Claims. (Cl. 51—278.)

1. The method of grinding glass and like hard, nonplastic materials, which comprises applying to the material the edge of a rapidly rotating abrasive wheel, and so setting and so traversing said wheel relative to the original surface of the material that a step in said surface with its side at an angle not exceeding 110° to such surface is formed and ground continuously backward, the depth of



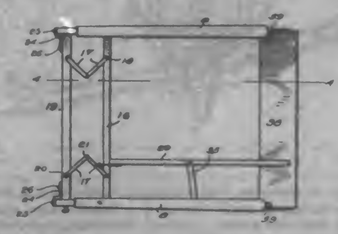
the step and the rate of traversing being such that a substantial proportion of the glass removed is removed by splintering the side of the step.

1,401,833. CAR. GEORGE E. THACKRAY, Westmont borough, Pa. Filed Aug. 15, 1921. Serial No. 492,337. 7 Claims. (Cl. 105—364.)



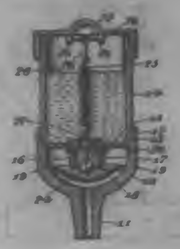
1. A metal car body, portions of the bottom of which are pressed downwardly and others upwardly to form shallow troughs and a wooden center sill inserted therebetween and secured thereto.

1,401,834. HIGH CHAIR. ANTHONY M. TRETTER, Covington, Ky. Filed July 26, 1921. Serial No. 487,696. 3 Claims. (Cl. 155—115.)



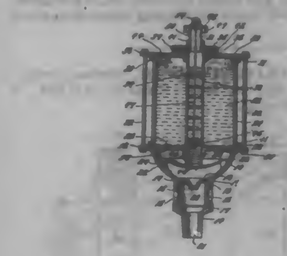
1. A highchair comprising rear legs, a crossbar connected to said rear legs, a back, pairs of links pivoted to said crossbar and said back, the links of each pair being pivotally connected, whereby the back may move with relation to said crossbar, and a side member having means engaging said back whereby to hold the back and the side member in position.

1,401,820. LUBRICATOR. ALLEN A. VAN OSDALE, Philadelphia, Pa., assignor to Celestin Sauer, Philadelphia, Pa. Filed Oct. 22, 1919. Serial No. 331,513. 8 Claims. (Cl. 184—103.)



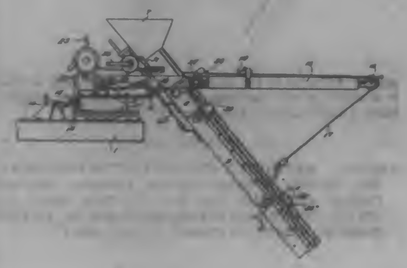
4. A vibratory-feed lubricator comprising a reservoir having a threaded outlet therefrom, a supplemental chamber frictionally fitted on the lower end of the lubricant reservoir and having a dished basal portion, a dished diaphragm seated in said basal portion by diametrically opposed tongues forming peripheral apertures for the passage of the lubricant, an adjustable extension threaded into the reservoir outlet and having a conical valve seat in its upper end, a cover for threaded engagement on the lubricant reservoir and having spaced legs depending therefrom, a cross bar supported by said legs, and a contractile spring depending from said cross bar and having an adjustable ball valve at the free end thereof, said contractile spring being adapted to hold the ball valve firmly closed on its seat when the threaded cover is removed.

1,401,836. LUBRICATOR. ALLEN A. VAN OSDALE, Philadelphia, Pa., assignor to Celestin Sauer, Philadelphia, Pa. Filed Dec. 13, 1920. Serial No. 431,631. 8 Claims. (Cl. 184—103.)



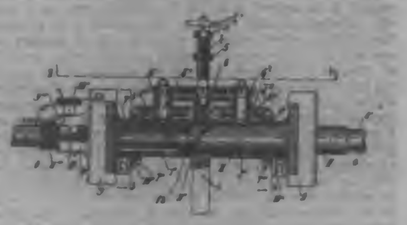
7. In a vibratory feed lubricator comprising a basal portion having an outlet therefrom, a funnel shaped nipple seated over said outlet, a dished diaphragm mounted in spaced relation within said basal portion, a lubricant reservoir mounted on and adapted for clamping engagement thereto, a perforate tube axially longitudinal of the reservoir and having threaded connection in its lower end and means for manipulating said perforate tube whereby its lower end may be moved toward or away from the dished diaphragm, the combination of a cap for seating on the reservoir said cap having an inner concentric apertured tubular part for telescopic engagement on the upper end of the aforesaid perforate tube, and a valve stem axially depending from said cap, provided with an upwardly seating valve at its free end, said valve and apertured tubular part being adapted when extended relative to the perforate tube to close communication between the reservoir and dished diaphragm and open said reservoir for filling purposes.

1,401,837. HOPPER AND DISCHARGE CHUTE. FRANK P. VOOT, Chicago, Ill. Filed Feb. 28, 1921. Serial No. 448,301. 8 Claims. (Cl. 198—40.)



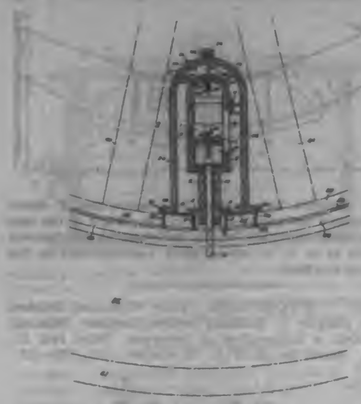
1. In a conveying device, a sole plate, a hopper mounted on said sole plate to swing about a horizontal axis, telescoping sections forming a chute leading from said hopper, an arm rigidly secured to said sole plate and extending outwardly above said chute, a cable secured to one of said sections spaced from said hopper and extending over the outer end of said arm to a point adjacent said hopper, a cable secured to one of said sections spaced from said hopper and extending to a point adjacent said hopper, and winding drums for said cables adjacent said hopper.

1,401,838. DYNAMIC BALANCING-MACHINE. RENÉ ALFRED LAURENT VERET, Paris, France. Filed Oct. 18, 1919. Serial No. 330,518. 7 Claims. (Cl. 73—61.)



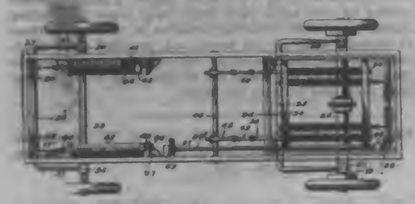
1. An adjustable balancing means comprising in combination, a frame, a shaft rotatably mounted in said frame, a body adapted to rotate with said shaft, a mass movable radially on said body, means for actuating said mass including gearing rotatable as a unit with said body, and a pair of brake elements each movable into engagement with some of said gears whereby the actuation of one of said brake elements causes said mass to move radially in one direction and the actuation of the other brake element causes the reverse movements thereof.

1,401,839. AUTOMOBILE-THEFT-PROTECTION DEVICE. JOHN A. WANN, Wilkes-Barre, Pa. Filed July 1, 1919. Serial No. 307,909. 9 Claims. (Cl. 116—33.)



1. The combination with a pneumatic tired wheel, of a theft protection device comprising a support structure attached to said wheel, and a member adapted to reciprocate in said support as the wheel revolves and to deliver a blow to the inner tube of said tire at each reciprocation.

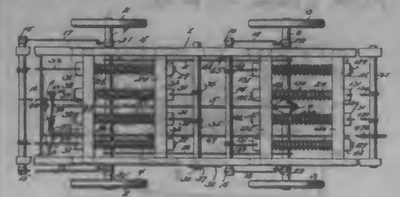
1,401,840. SPRING-SUSPENSION MECHANISM FOR VEHICLES. ELMUS E. WEAVER, Boise, Idaho, assignor to Weaver Spring Company, Boise, Idaho, a Corporation of Idaho. Filed Apr. 6, 1920. Serial No. 371,646. 17 Claims. (Cl. 267—12.)



4. A spring suspension for vehicles comprising rods adapted to be connected to one of the axles of a vehicle near the opposite ends thereof and mounted to swing in an arc in consequence of relative vertical movements between the vehicle body and the axle, a sleeve embracing portions of said rods, separate connections between said rods and sleeve, spring means, and means interposed between said spring means and sleeve including levers rigidly connected in spaced relation in such manner that the swinging movements induced by one of said rods are uniformly resisted by said spring means.

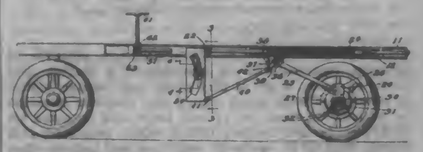
1,401,841. SPRING SUSPENSION FOR VEHICLES. ELMUS E. WEAVER, Boise, Idaho, assignor to Weaver Spring Company, Boise, Idaho, a Corporation of Idaho. Filed July 18, 1919, Serial No. 311,750. Renewed Sept. 13, 1921. Serial No. 500,437. 16 Claims. (Cl. 267—12.)

2. A vehicle spring suspension comprising a rotatable shaft adapted to be mounted in a vehicle frame, a pair of bars connected to said shaft to swing about the same in arcs, the free ends of said bars adapted to be connected to an axle, a pair of relatively movable draw bars, one of



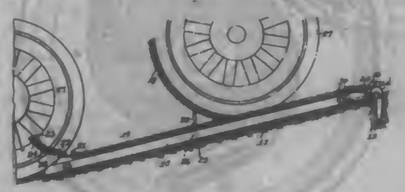
which is connected to said shaft, means for exerting a pull upon the other draw bar, and springs interposed between the draw bars.

1,401,842. SPRING-TENSIONING MECHANISM. ELMUS E. WEAVER, Boise, Idaho, assignor to Weaver Spring Company, Boise, Idaho, a Corporation of Idaho. Filed Apr. 6, 1920, Serial No. 371,647. Renewed Sept. 13, 1921. Serial No. 500,438. 10 Claims. (Cl. 267—12.)



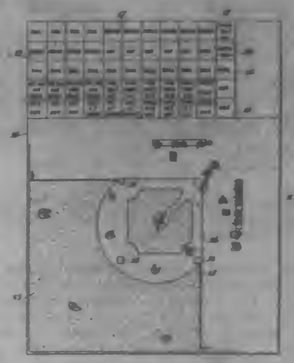
3. A tensioning device for the spring supporting means of a vehicle, comprising the combination with the spring means, of a plate having an arcuate slot, gear teeth on one face of said slot, a gear meshing with said gear teeth, a rod connected with the spring means and plate, an oscillatory arm, means tending to rotate said oscillatory arm in one direction in opposition to the spring means, a link pivotally secured to said plate and said arm, and mechanism for rotating said gear whereby said plate pivots about said gear for adjusting the tension of the spring means and changing the angular relation of said plate relative to said rod and link.

1,401,843. ACCESSORY FOR MOTOR-TRUCKS. CONRAD S. WEIMAR, Elizabeth, N. J. Filed Feb. 21, 1921. Serial No. 446,078. 3 Claims. (Cl. 180—7.)



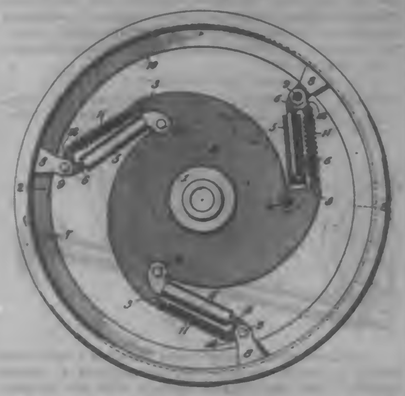
1. An accessory for motor trucks including a skid board having a central aperture therethrough and a pivoted member at one end adapted to coact with the tail-gate for associating said end therewith when used as a loading or unloading means, said member being shiftable to operate as an anchor for anchoring the skid board to the ground to constitute a ramp when employed as an extricating means and a chain having means at its opposite extremities adapted to couple the drive wheel of the truck with the anchored end of the board for pulling the wheel over the board when power is applied to the drive wheel, and a pin carried centrally thereof for engagement within the aperture to retain the chain against lateral displacement.

1,401,844. GAME DEVICE. FREDERICK C. WESTPHAL, New Brunswick, N. J. Filed Sept. 28, 1920. Serial No. 412,424. 2 Claims. (Cl. 46—63.)



1. In a game device as characterized, a plurality of elements representative of base-runners, a playing field including bases, a set of fifty cards each bearing indicia in accordance with which one of said elements is placed on or removed from one of said bases, and an extra set of five cards each bearing indicia which construed with certain indicia of cards of said first set indicate that one of said elements should be placed on or should be removed from one of said bases.

1,401,845. VEHICLE-WHEEL. RALPH S. WILCOX, Youngstown, Ohio. Filed Oct. 21, 1920. Serial No. 418,488. 3 Claims. (Cl. 152—28.)



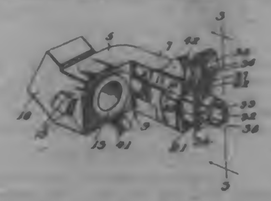
1. A vehicle wheel, comprising a floating or detached hub having a central radial flange member provided with a plurality of circumferentially disposed shoulders in substantially radial alinement to the hub, a tubular guide-bar swingingly mounted adjacent each of said shoulders, an outer rim having a plurality of stems swingingly secured to the inner surface thereof and telescopically engaging said tubular guide-bars, and a contracting coil spring disposed substantially parallel with said guide-bar, one end of said spring being attached to the head of said stem and the other end to the shoulder of said flange.

1,401,846. CAMPER'S BED. RUSSELL WILES, Riverside, Ill. Filed May 7, 1918. Serial No. 233,447. 5 Claims. (Cl. 5—19.)



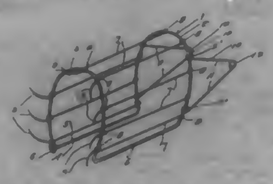
3. A camper's bed having, in combination, a fabric web arranged and adapted to carry the weight of the user and an insulating body loosely held against and beneath said web so as to be substantially uncompressed by the weight of the user.

1,401,847. PIPE-COUPLING. JOHN WILLIAMS, Clinton, Iowa, assignor to Williams Devices Company, Wilmington, Del., a Corporation of Delaware. Filed Jan. 21, 1920. Serial No. 352,977. 18 Claims. (Cl. 285—57.)



1. In a coupling of the class specified, the combination of a pair of tubular heads having coupling units in reverse positions on the outer sides thereof, a pair of gaskets carried by said heads with their outer edges in alcutting relation, and rigid coupling members in reverse positions at opposite sides of the heads and provided with longitudinally movable positively controlled coupling devices therein clear of the heads and having means to engage the head units and turn on the latter.

1,401,848. COLT'S MUZZLE. LEWIS W. WILLIAMS, Chandler, Okla. Filed Dec. 3, 1919. Serial No. 342,066. 2 Claims. (Cl. 119—130.)

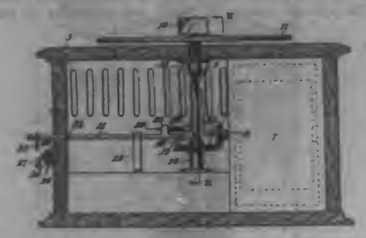


1. A wearer having a frame provided with spaced arch members and connecting portions joining the same, and a rod extending from one of said members to the other to brace the same, said rod being coiled around one of the arches and a portion integral with the rod extending beyond the coil as a prong.

1,401,849. PHONOGRAPH. KASIMIERZ WOJTASIEWICZ, Cleveland, Ohio. Filed Feb. 10, 1921. Serial No. 443,909. 19 Claims. (Cl. 196—56.)

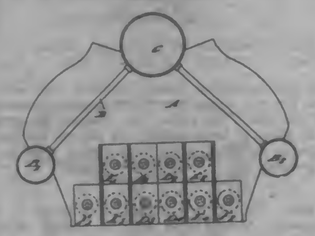
1. In a phonograph wherein records are played upon a turn table mounted upon a vertical driven shaft, means

for arresting the rotation of such vertical shaft and for positively holding it against rotation including the combination with cylindrical and angular portions of said shaft of coöperatively related friction and positive shaft



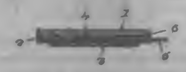
engaging members adapted to respectively engage the cylindrical and angular shaft portions whereby the shaft is brought to a stop first by the friction member and then held against rotation by the positive means.

1,401,850. OIL-FIRED BOILER. HAROLD E. YARROW, Glasgow, Scotland. Filed July 8, 1919. Serial No. 309,507. 2 Claims. (Cl. 126—4.)



1. A boiler comprising a fire box and a plurality of oil burners located at one end of said fire box, said burners being arranged symmetrically on each side of the central longitudinal plane of the boiler in sets at different distances from the said end in order to obtain an equal distribution of heat throughout the furnace.

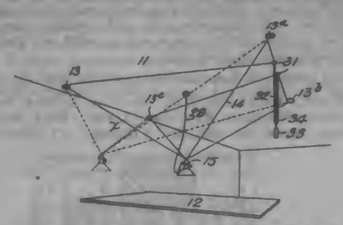
1,401,851. HEATER UNIT. HARVEY R. ZIEBELL, Ripon, Wis. Filed May 10, 1921. Serial No. 468,872. 5 Claims. (Cl. 18—18.)



1. In a heater unit for vulcanizing tire patches, the combination of a fuel element in a receptacle by which the patch is carried, ignition means carried by the fuel element, and igniting means complementary to said ignition means.

1,401,852. LIGHT. JAMES A. AIRD, Montreal, Quebec, Canada. Filed Dec. 6, 1919. Serial No. 342,934. 10 Claims. (Cl. 240—69.)

1. A lamp support comprising a plurality of ceiling fixtures having cord channels therein, a lamp holder having cord channels therein, and a single continuous cord passing through the channels of the fixtures and holder in sliding frictional contact therewith and suspending the holder in such manner that the lamp may be moved

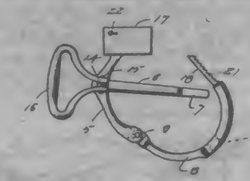


in any desired direction in a horizontal plane without appreciable elevation.

1,401,853. PROCESS OF SEPARATING BUTTER-OIL FROM MILK, SKIM-MILK, CREAM, BUTTERMILK, BUTTER, &c. WALLACE ALEXANDER, Jersey City, N. J., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 15, 1919. Serial No. 345,128. 1 Claim. (Cl. 99—13.)

The process of recovering butter fat from butter fat-containing materials which comprises heating such material under pressure to a temperature corresponding to low steam pressure and sufficient to dissolve the casein contained in the material and afterward separating the butter fat from the water.

1,401,854. BAG-FASTENER. JOSE M. ALMEDIA, Shoshone, Idaho. Filed June 7, 1918. Serial No. 238,684. 1 Claim. (Cl. 150—23.)



A bag fastener comprising two frame sections pivotally connected together, a handle on and extending above one of the frame sections, a tongue extending from one of the frame sections intermediate the ends thereof and across and into the other frame section, and a lock for the frame sections at the end of one of the sections adapted to bear against a wall.

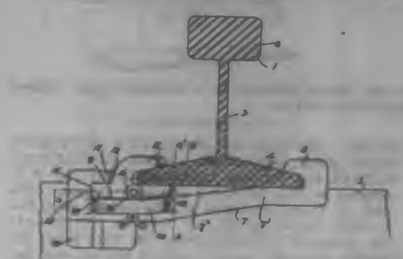
1,401,855. COMBINATION-PADLOCK. FRANK ANDERSON, Oakland, Calif. Filed Apr. 19, 1920. Serial No. 374,789. 2 Claims. (Cl. 70—113.)



1. A combination padlock comprising a barrel formed with a flange at one end and a stud at the other, a cap plate threaded on said stud to form a second flange on said barrel, tumbler rings on said barrel between said flanges and formed with recesses in the surfaces of the

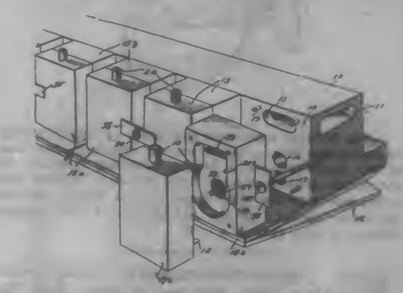
ring apertures, spring-pressed pins entering apertures in the barrel to yieldingly engage in the recesses of said tumbler rings, a staple piercing said cap to lock it against movement and engageable with said tumbler rings, and indicia on said tumbler rings and on said cap plate for positioning said tumbler rings.

1,401,856. RAIL ANCHOR. William Andrew Robert Angus, Winnipeg, Manitoba, Canada. Filed Mar. 14, 1921. Serial No. 452,182. 9 Claims. (Cl. 238—317.)



6. A rail anchor comprising an abutment arranged to engage one side of a rail base, a fulcrumed rail gripping member at the opposite side of the rail base provided with upper and lower gripping jaws engaging corresponding surfaces of the said base, said jaws defining between them a wedge-shaped gripping space receiving the rail base therein and being normally inclined with respect to said base.

1,401,857. PNEUMATIC-ACTION UNIT. Stephen Battner, Brooklyn, N. Y. Filed Jan. 9, 1920. Serial No. 350,431. 5 Claims. (Cl. 84—58.)



1. In pneumatic actions, the combination of a tension chest having a smooth front face, a series of pneumatics supported by the chest and a series of valve units for the respective pneumatics, said valve units being secured independent of one another to said smooth face, each valve unit comprising two separable parts, a valve mechanism within each unit, and means serving to hold the different parts of each unit together and the unit as a whole against the tension chest.

1,401,858. PNEUMATIC COLUMN. Lewis C. Baylis, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed June 22, 1921. Serial No. 479,667. 6 Claims. (Cl. 285—63.)

1. A column adapted to support a fluid actuated percussive tool in operative position, comprising a rock gripping member at one end adapted to engage at a plurality of points a cylinder resting non-rotatively thereon, the said rock engaging member, a sleeve adjustable longitudinally in the cylinder casing and extending beyond the end of the said casing, a fluid actuated piston in the cylinder casing, a piston rod connected to said



piston and extending loosely through the said sleeve beyond the end of the sleeve, and a rock engaging member at the end of the piston rod, whereby the said sleeve may be adjusted longitudinally to prevent the return of the piston rod into the cylinder casing upon failure of fluid pressure.

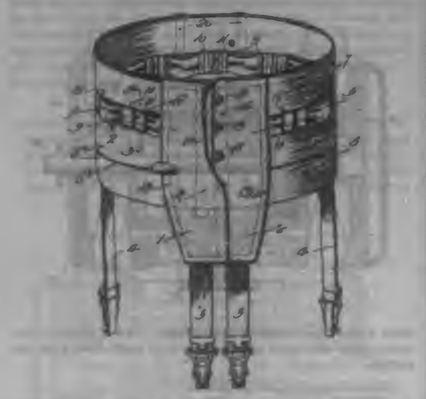
1,401,859. VIBRATING SHELL. Charles A. Bailey, Cromwell, Conn. Filed Sept. 4, 1920. Serial No. 408,240. 9 Claims. (Cl. 46—46.)



1. A sound producing device comprising a shell formed from a single piece of sheet metal of substantially U-shape in cross section, with upturned sides, inturned ends, and a flanged front edge forming an angularly shaped structure in all directions, and a striker loosely inclosed within the shell.

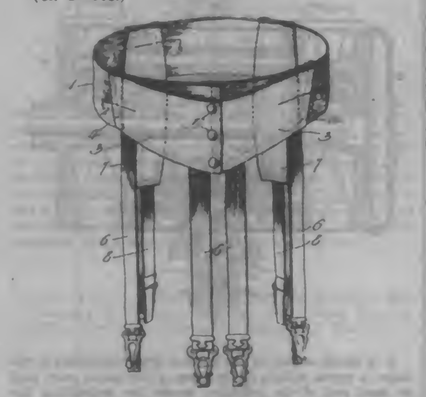
1,401,860. GIRDLE. August B. Beck, Jersey City, N. J. Filed Mar. 7, 1921. Serial No. 450,410. 4 Claims. (Cl. 2—188.)

1. A girdle comprising a relatively wide elastic belt having connecting means at its ends, and a relatively narrow inelastic strap connected with said belt intermediate the edges of the latter and extending from end to end thereof, said strap being adapted to have its ends



connected to each other to restrict the waistline independently of the elasticity of the belt.

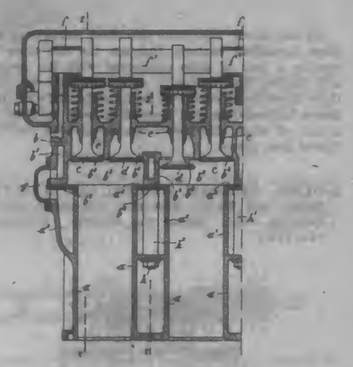
1,401,861. GIRDLE. August B. Beck, Jersey City, N. J. Filed Mar. 7, 1921. Serial No. 450,411. 2 Claims. (Cl. 2—188.)



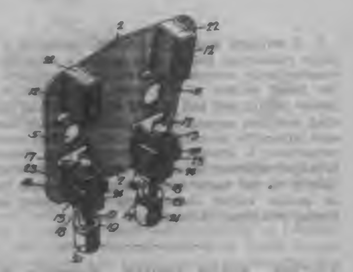
1. A girdle comprising an elastic belt whose ends meet at its front, a pair of opposed inelastic flaps at the front side of the belt carrying hose supporters, means securing the outer ends only of said flaps to said belt, means for detachably connecting the inner ends of said flaps with each other, and means for detachably connecting the ends of said elastic belt to each other behind and free of said flaps, whereby to effectively support the abdomen independently of said flaps.

1,401,862. EXPLOSION-ENGINE. Marc Birkigt, Bois-Colombes, France. Filed Jan. 6, 1916. Serial No. 71,695. 2 Claims. (Cl. 123—178.)

1. An explosion cylinder casting comprising an integral block having a plurality of inner cylindrical walls forming explosion cylinders and an outer spaced wall connected at its top and bottom to said cylindrical walls forming a water jacket about said cylinders, said cylinder casting having a flat upper surface, a head casting having an upper wall provided with valve apertures arranged longitudinally thereof, inner side walls coöperating with said upper wall to form combustion chambers each surrounding a pair of valve apertures and being elongated longitudinally of the head casting, each inner side wall being symmetrically arranged in overlapping relation to said cylinders, a lower wall having a flat under surface coöperating with the flat upper surface of said cylinder casting, said inner side walls being joined to said lower wall and an outer side wall joined to said lower wall and surrounding said inner side walls the distance between the elongated ends of adjacent combustion chambers being less than the distance between the unelongated sides of said combustion chambers and said outer wall.



1,401,863. GARNETT MACHINE. William F. Bokum and Herbert V. Coulston, Philadelphia, Pa., assignors to Smith and Furbush Machine Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 12, 1919. Serial No. 337,383. 2 Claims. (Cl. 19—3.)



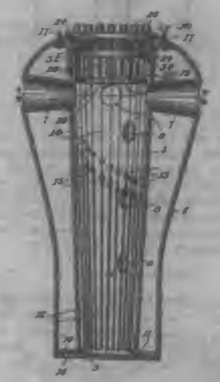
2. The combination in a Garnett machine, of an arch; a series of plates secured to the arch, each plate having two sets of projections; a hole between each set of projections; a fixed nut held by each of the lower projections; adjusting screws passing through the nuts; puppets having projections engaging the adjusting screws and having set screws bearing against the upper projections, the set screws adjusting the puppets laterally, the other screws adjusting the puppets longitudinally.

1,401,864. OAR. WALTER G. BOLTON, Springfield, Mass. Filed Nov. 16, 1920. Serial No. 424,446. 1 Claim. (Cl. 9—24.)



An oar of the character described comprising a central piece extending entirely through the oar from blade to handle, a pair of sides connected with the central piece and having longitudinally extending grooves formed on their inner faces each side being solid midway its ends, a sleeve surrounding and secured to said solid portion and a pair of blade side pieces connected with the first mentioned side pieces.

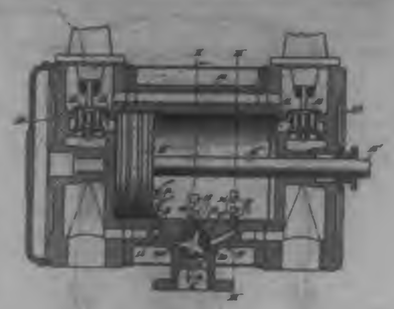
1,401,865. STRINGED MUSICAL INSTRUMENT. JOHN BOOSH and WENZL KOWALEK, Cleveland, Ohio. Filed July 28, 1921. Serial No. 488,099. 6 Claims. (Cl. 84—173.)



5. A stringed musical instrument including a substantially cylindrical hollow case having a circular series of longitudinally extending strings mounted therein adjacent the inner surface of the same and manually operable means within one end of said case including finger operated members arranged in a circular series inwardly of said strings for sounding the latter, said last named means comprising a plurality of revolvable pick elements each arranged adjacent one of said strings and operatively connected to the finger actuated members, said case being of double walled construction with sound conducting means extending through said walls.

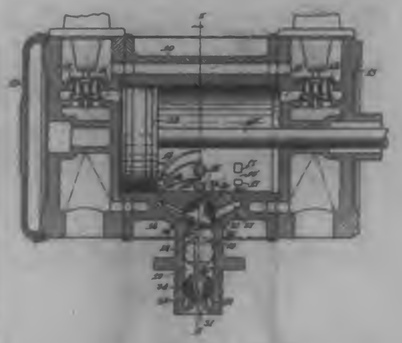
1,401,866. STEAM-ENGINE. FREDERICK W. BÖSCH, Camden, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Apr. 22, 1916, Serial No. 92,891. Renewed May 23, 1919. Serial No. 300,478. 15 Claims. (Cl. 121—125.)

1. A steam engine of the uniflow type comprising a cylinder, a piston within the cylinder, a live steam inlet port at each end of the cylinder, means for controlling the admission of live steam through said live steam ports and to the opposite sides of the piston, one intermediate and two distinct and independent combined main and auxiliary exhaust ports at different and separated sec-



tions along the length of the cylinder, and a single valve controlling the three exhaust ports at each stroke of the piston.

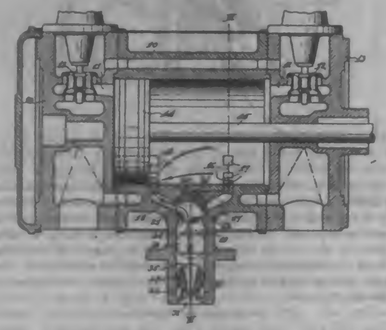
1,401,867. STEAM-ENGINE. FREDERICK W. BÖSCH, Camden, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Aug. 23, 1916, Serial No. 116,440. Renewed Apr. 29, 1919. Serial No. 293,578. 18 Claims. (Cl. 121—125.)



1. A steam engine of the uniflow type comprising a cylinder, a piston within the cylinder, a live steam inlet port at each end of the cylinder, means for controlling the admission of live steam through said live steam ports and to the opposite sides of the piston, the combination of two distinct and independent combined main and final exhaust ports at different and separated sections along the length of the cylinder, an intermediate exhaust port located between the two combined main and final exhaust ports and substantially at the center of the cylinder, a single valve controlling said three exhaust ports, three distinct and independent cylinder-exhaust-diverting ports and a single-slot ported exhaust diverting-valve coöperating with the single valve controlling the three separated and independent cylinder exhaust ports and controlling the diversion of the exhaust steam of a uniflow cylinder into said three distinct and independent cylinder-exhaust-diverting ports at different pressures, whereby the main exhaust charge expelled from the cylinder at the end of the power stroke through the distinct and independent combined main and final exhaust port when acting as

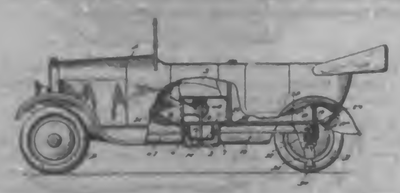
main exhaust port is diverted into one of said independent cylinder-exhaust-diverting-ports and the remaining exhaust steam expelled from the cylinder at a lower pressure on the return or exhaust stroke successively through the intermediate exhaust port and through the independent main and final exhaust port when acting as final exhaust port into another of said independent cylinder-exhaust-diverting-ports.

1,401,868. STEAM-ENGINE. FREDERICK W. BÖSCH, Camden, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Oct. 31, 1916, Serial No. 128,753. Renewed Nov. 22, 1921. Serial No. 517,153. 26 Claims. (Cl. 121—125.)



1. A steam engine of the uniflow type comprising a cylinder, a piston within the cylinder, a live steam inlet port at each end of the cylinder, means for controlling the admission of live steam through said live steam ports and to the opposite sides of the piston, two distinct and independent main or auxiliary exhaust ports at different and separated sections along the length of the cylinder, and a single valve controlling the two exhaust ports and first opening the exhaust port adjacent the piston to the expanded steam and later the other exhaust port.

1,401,869. AUTOMOBILE LIFTING MECHANISM. CLARENCE W. BOWERS, Heppner, Oreg. Filed Mar. 15, 1921. Serial No. 452,604. 7 Claims. (Cl. 254—86.)



1. In a device of the class described comprising lifting elements independently connected to the axles of a vehicle, means for lowering and raising either pair of said elements to their operative and inoperative positions with respect to the vehicle and means for simultaneously actuating either of said pairs of lifting elements from the seat of the vehicle.

1,401,870. REFLECTOR. MAURICE P. BROGAN, Omaha, Nebr. Filed Jan. 24, 1920. Serial No. 353,842. 6 Claims. (Cl. 240—41.)



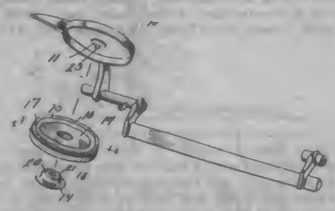
1. A reflector for projecting light rays whose curvature in one plane is defined by a curve which is generated by a curved directrix, every point in the curve being equidistant from the focus and the directrix.

1,401,871. SOLDERING-IRON. CHESTER A. BROWN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 25, 1919. Serial No. 279,070. 5 Claims. (Cl. 219—26.)



1. An electric soldering iron comprising a supporting handle, a heating member tapered to a relatively thin edge at one end and connected to the supporting handle at the other, a carbon member adapted to engage the heating member and mounted thereon and means for reflecting light caused by contact engagement of the two members when they are connected to a source of electric current.

1,401,872. KEY-PAD FOR WIND MUSICAL INSTRUMENTS. FERDINAND A. BUESCHER, Elkhart, Ind. Filed Feb. 28, 1921. Serial No. 448,534. 9 Claims. (Cl. 84—385.)



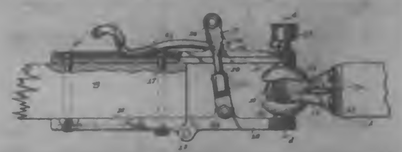
2. In a wind musical instrument, the combination of a key, a pad therefor and a snap fastener for detachably securing the pad to the key.

8. A pad for the keys of a wind musical instrument comprising a body of compressible material, a yieldable cover for said body, said body and cover being formed with alining apertures to receive means for securing said pad to a key, and means for holding said pad and cover in assembled relation.

1,401,873. TRUCK AND TRAILER COUPLING. JACOB W. BULLER, Hillsboro, Kans., assignor to Buller Coupler Co., Hillsboro, Kans., a Corporation of Wisconsin. Filed Sept. 17, 1920. Serial No. 410,924. 5 Claims. (Cl. 213—67.)

1. A coupling of the class described, including a head constituting one coupling element, a bracket adapted at an

end thereof to be secured to a vehicle, said fulcrum having integral members extending laterally outward therefrom in connection with said head at both sides of the latter, and a mating socket for said head composed of members one



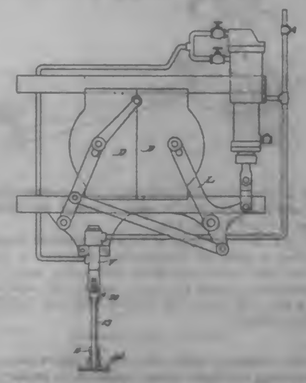
of which is mounted for movement toward or from the plane of the other for coupling or uncoupling, the latter bracket members at the sides of the head being accommodated between said socket members.

1,401,874. SAFETY DEVICE. WILLIAM JOHN BUSER, Youngstown, Ohio. Filed Dec. 14, 1920. Serial No. 430,710. 1 Claim. (Cl. 246—358.)



In a safety device for railway switches, the combination of switch points, foot pieces secured to the switch points, operating members lying adjacent to the rail and actuated by the rolling stock, a compression element carried on one end of each of the operating members, a slide bar connecting with said foot pieces and actuated by said compression member whereby the switch points are tightly forced home, and means interposed between said footpieces to adjust the same in proper spacial relation and to permit of the wear being compensated for.

1,401,875. FOOT-PEDAL FOR PNEUMATIC DOOR-OPERATING MECHANISM. HARRY HUGH CLARK and LOUIS SCHAUMBURGER, Terre Haute, Ind. Filed Nov. 9, 1920. Serial No. 422,854. 6 Claims. (Cl. 74—81.)



1. In a foot pedal for pneumatically operated door mechanism, a support, an arm carried by said support, a cam adjustably pivoted to said arm and a pedal for operating said arm and cam to actuate the control valve for said mechanism.

1,401,876. SMOKING PIPE. WILLIAM CRAIG, Newark, N. J. Filed Oct. 7, 1919. Serial No. 328,041. 3 Claims. (Cl. 131—12.)



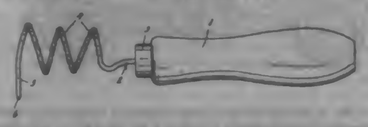
1. A stem for smoking pipes including a shell, a tube ranging longitudinally in said shell and spaced therefrom to form a chamber, a separate mouthpiece, means detachably connecting said mouthpiece with said shell, a valve slidably sleeved on the said tube at the rear end, and stop means to limit the rearward movement of said valve, said stop means including stop members on the front end of the mouthpiece.

1,401,877. PLOW ATTACHMENT. LEWIS CLEATON, Prairieville, Tex. Filed Jan. 29, 1919. Serial No. 273,770. 1 Claim. (Cl. 97—17.)



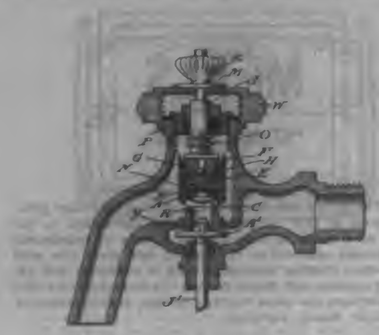
An attachment for a landside of a plow share to compensate for uneven wearing away comprising a plate disposed against one side face of the landside, a laterally extending flange on the lower edge of the plate to provide a broad ground-engaging surface and having its forward end in contact with the lower edge of the landside to support the same, the flange and plate being reduced toward the point of contact of the landside and flange, and fastening means passing through the plate and landside to adjustably secure the plate to the latter.

1,401,878. DISH-WASHING TOOL. CHRISTIAN M. COLBY, Minneapolis, Minn. Filed Oct. 18, 1920. Serial No. 417,582. 2 Claims. (Cl. 15—54.)



1. A dish washing tool having in combination, a handle, a wire or rod member projecting axially therefrom and formed at some distance from the handle into a plurality of helical coils, said member having a free end projecting in a straight line normal to the axis of the helix.

1,401,879. VALVE, FAUCET, AND THE LIKE. WILLIAM ROBERTS CORNISH, Barry, England. Filed Mar. 6, 1920. Serial No. 363,740. 6 Claims. (Cl. 251—36.)



3. A valve or faucet, comprising a valve stem, a resurfacing tool detachably fixed to the lower end of said stem, a magazine member detachably attached to said tool and adapted to contain both a washer for coöperating with the valve seat and spare washers, and a spring split ring engaging grooves in said magazine member and resurfacing tool and forming the detachable connection between the two.

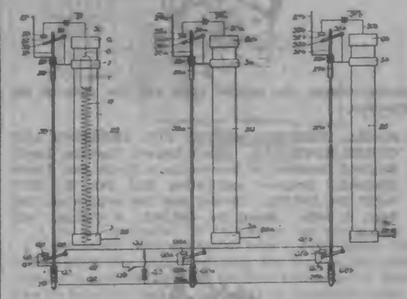
6. A valve or faucet, comprising a valve seat, a valve stem movable toward and from said seat, a spring for normally pressing said stem toward said seat, a rotatable handle in screw-threaded engagement with the valve casing, coacting pin and slot connections between said stem and handle held in engagement by said spring while said stem is out of contact with said seat whereby the longitudinal and rotary movements of said handle will be imparted to said stem, the contact of said stem and seat automatically disengaging said pin and slot engagement and means for rotating said stem independently against said seat.

1,401,880. NOZZLE. DOUGLAS L. CONNELLY, Leonia, N. J., assignor to W. L. Fleisher & Co. Inc., New York, N. Y., a Corporation of New York. Filed Sept. 4, 1920, Serial No. 408,161. Renewed Nov. 16, 1921. Serial No. 515,729. 2 Claims. (Cl. 299—115.)



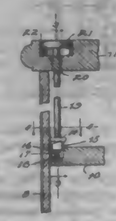
1. A nozzle comprising a shell, a core fitting snugly in the shell, a cap secured to the shell and having means for locking the core in the shell, said core having a bore therethrough, and means associated with the cap for supplying material to be atomized to the bore of the core, said core having grooves in the periphery thereof leading to the end of the core remote from the cap, a plate associated with the core and closing the ends of the grooves, said plate presenting spiral passage forming outlets for said groove, a nozzle secured to the core, and having means for locking the plate to the core, said nozzle having a passage registering with the bore of the core, and a cap secured to the shell and inclosing said plate and nozzle, said cap having an aperture aiming with the passage of the nozzle, said shell having means whereby compressible fluid may be supplied to the grooves of the core.

1,401,881. PROTECTING DEVICE FOR ELECTRIC CIRCUITS. NICHOLAS J. CONRAD, Chicago, Ill., assignor to Schweitzer & Conrad, Chicago, Ill., a Corporation of Illinois. Filed Mar. 31, 1917. Serial No. 158,815. 27 Claims. (Cl. 175—294.)



20. In combination a high tension current conductor, a high tension circuit breaker in said conductor, a fuse of small capacity controlling said circuit breaker, and an independent source of current for blowing said fuse.

1,401,882. DOOR-OPENER. LORENZO COZZO, Chicago, Ill. Filed June 16, 1919. Serial No. 304,457. 1 Claim. (Cl. 292—174.)



The combination with a cabinet having doors and springs tending to open the doors, of a cross piece in the cabinet having a recess adjacent the free edges of the doors, an inside hook on each door above the cross piece, a beveled latch bar adapted to be seated in the recess in the cross piece, springs tending to raise the bar to engage the hooks, a rod secured to the bar extending through a hole in the cabinet where a recess is also provided, and a button secured to the rod and adapted to be seated in the recess at the top of the cabinet where it is ordinarily invisible but operable to depress the bar for releasing the bar and hooks, and allowing the doors to open.

1,401,883. DYNAMO-ELECTRIC GENERATOR. VICTOR CRABB, London, England. Filed Dec. 10, 1919. Serial No. 343,964. 4 Claims. (Cl. 171—209.)

1. A dynamo-electric generator comprising a pair of stationary field magnets arranged side by side with the pole pieces of one magnet adjacent, respectively, the pole pieces of opposite polarity of the other magnet, a stationary armature core extending centrally between the

pole pieces of said magnets, and a pair of disks carrying segments of magnetic material extended to occupy the



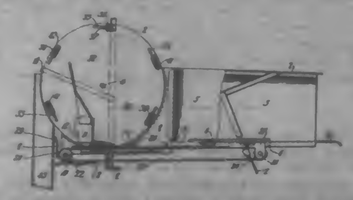
spaces between the magnet poles and the ends of the armature.

1,401,584. FEEDING MOTION FOR PRESSING AND OTHER MACHINES. HARRY BENSON CRANSHAW, Leeds, England, assignor of four-tenths to Louis Fox, Leeds, England. Original application filed Jan. 5, 1917, Serial No. 140,691. Divided and this application filed Sept. 8, 1920. Serial No. 408,901. 6 Claims. (Cl. 68—9.)



1. In a machine for the purpose described, the combination with a work support, a pressing member adapted to coöperate therewith, and means for positively moving the pressing member relative to the support, of a feed plate carried by the support, connections between the means for actuating the pressing member and said plate for reciprocating the latter, and means for automatically moving the feed plate relative to the work support and toward and from the pressing member as it reciprocates.

1,401,885. APPARATUS FOR PLANTING SEED-POTATOES. JOHN B. CAUMP, Ballarat, Victoria, Australia. Filed Sept. 2, 1919. Serial No. 321,223. 8 Claims. (Cl. 221—127.)



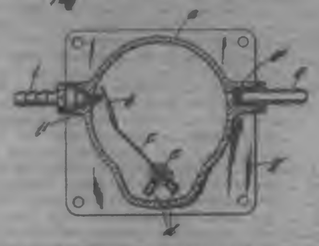
1. In apparatus for planting seed potatoes, a revolving element having a series of fixed needles or spikes angularly inclined to the side face of said element substantially as and for the purpose set forth.

1,401,895. ELECTRIC SIGN. EDWARD W. DARNSTADT, Austin, Tex. Filed Feb. 11, 1919. Serial No. 276,982. 5 Claims. (Cl. 40—132.)



2. The herein described method of forming a sign plate consisting in first outlining the sign characters on the plate by a series of holes passing a strip of translucent and flexible material on the rear of said plate over said holes after treating said strip with a softening and adhesive solution and finally forcing the material while still wet through the holes to form hollow protuberances on the front face of the plate.

1,401,897. FLOW-METER FOR GASES. ROBERT H. DAVIS, London, England. Filed Aug. 11, 1920. Serial No. 402,894. 3 Claims. (Cl. 73—197.)



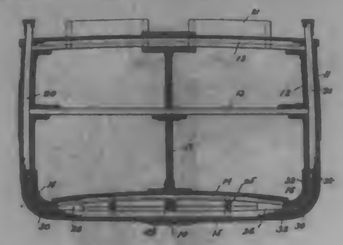
3. In an instrument for measuring the rate of flow of gases, an inlet pipe, an inlet nozzle arranged therein having an orifice therethrough with diameter small relatively to the diameter of the pipe, a plate against which impinges the jet of gas passing through the nozzle, an arm attached to said plate, a pivoted spindle attached to said spindle, balance weights attached to said spindle, resilient means attached to said spindle for resisting angular movement thereof, an outlet pipe and a member placed in the pipe provided with an orifice small relatively to the bore of the pipe.

1,401,898. UNDERFEED FURNACE. WILLIAM E. DU VOE, Detroit, Mich., assignor to The Underfeed Stoker Company of America, Detroit, Mich., a Corporation of New Jersey. Filed Nov. 5, 1920. Serial No. 422,044. 5 Claims. (Cl. 110—47.)



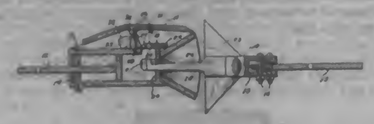
2. In a device of the character described, a retort, two tiltable floor-elements arranged laterally beyond the retort, each pivoted along one edge, a rocking lever, two fulcra therefor, means for rocking said lever on its fulcra alternately and links, connected with the free edges of the floor-elements and with points on said rocking lever adjacent said fulcra.

1,401,889. WOODEN SHIP. WILLIAM T. DONERLAY, Brooklyn, N. Y. Filed Dec. 6, 1917. Serial No. 205,709. 21 Claims. (Cl. 114—82.)



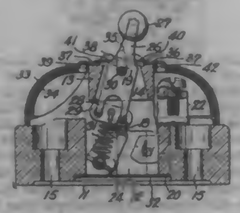
1. In a ship, a wooden hull, comprising: transverse frame members, and means to retain same under an initial stress; a stem and a stern post; and a vertical, longitudinal bulkhead extending the entire length of the hull and forming an integral part of said stem and stern posts, said bulkhead being continuous and insuring a rigid structure wherein lateral stresses, developed by a tendency of the ship to "hog," are resisted by the transverse frames acting in conjunction with the said longitudinal bulkhead.

1,401,890. COUPLING FOR MINE-CARS. JOSEPH E. DEKE, Birmingham, Ala. Filed Mar. 29, 1921. Serial No. 456,580. 3 Claims. (Cl. 213—37.)



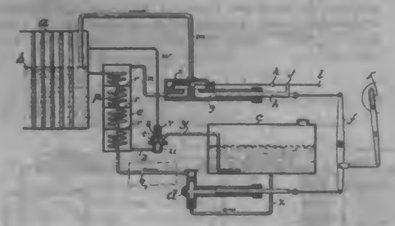
1. A car coupling having complemental coupling members, one of said members having a knuckle, the other of said members having a tongue engageable with said knuckle, means pivotally mounting the knuckle to yield relatively to the tongue to lock the latter, means operable to shift the knuckle to release the tongue, a latch normally in engagement with said knuckle, and trip means to release the latch as said last mentioned means is operated.

1,401,891. ELECTRIC SWITCH CONSTRUCTION. CHARLES DUNCAN, Montreal, Quebec, Canada. Filed Oct. 18, 1919. Serial No. 331,711. 17 Claims. (Cl. 200—67.)



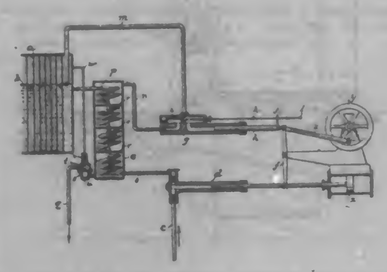
1. In a switch, a base having a recess opening from its lower surface, terminals projecting into said recess, a circuit maker oscillatably mounted in the recess and circuit maker operating means projecting into the recess.

1,401,892. WATER-LEVEL REGULATOR FOR STEAM-BOILERS. FRANCIS I. DU PONT, Wilmington, Del., assignor to Delaware Chemical Engineering Company, Wilmington, Del., a Corporation of Delaware. Filed Mar. 29, 1918. Serial No. 225,464. 23 Claims. (Cl. 122—415.)



1. In an apparatus for regulating the water level in a steam boiler, the combination with a water supply tank, of a water line extending from the tank to the boiler, means in said line between the tank and boiler to deliver water from the tank to the boiler at a rate in excess of the rate at which the water is converted into steam in the boiler, a second line from the boiler to the tank to which passes the water from the boiler which rises above a predetermined level, means in the second line between the tank and boiler for withdrawing a predetermined volume of fluid from the boiler in a given time and transferring it to the tank, and a heat interchanger in said lines to transfer heat from the outgoing fluid from the boiler to the ingoing water without intermingling in the interchanger.

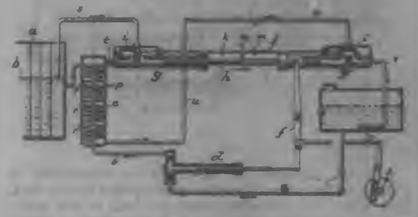
1,401,893. MEANS FOR PREVENTING THE FORMATION OF SCALE IN STEAM-BOILERS. FRANCIS I. DU PONT, Wilmington, Del., assignor to Delaware Chemical Engineering Company, Wilmington, Del., a Corporation of Delaware. Filed May 31, 1918. Serial No. 237,450. 3 Claims. (Cl. 122—415.)



1. In a feed water supply system for steam generators, a water feed line including a pump for continuously supplying a predetermined amount of fresh water to the generator, an overflow line including a measuring engine for continuously removing the excess water supplied to the generator, a double surface heat interchanger connected to said line, the ingoing water passing over one

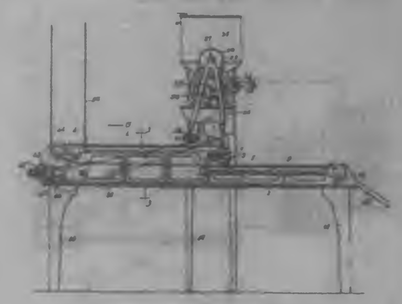
surface while the outgoing water passes over the water surface, to transfer the heat from the outgoing water to the ingoing water, and means for controlling the discharge of water from the heat interchanger.

1,401,894. WATER-LEVEL REGULATOR FOR STEAM-BOILERS. FRANCIS I. DU PONT, Wilmington, Del., assignor to Delaware Chemical Engineering Company, Wilmington, Del., a Corporation of Delaware. Filed May 17, 1919. Serial No. 297,912. 10 Claims. (Cl. 122—451.)



1. In an apparatus for regulating the water level in a steam boiler, means to deliver an excess supply of water to the boiler, a discharge from the boiler at the desired water level, a heat interchanger interposed in the delivery and discharge connections, and means for removing the discharged water from the interchanger at the rate delivered thereto.

1,401,895. COLOR-SORTING MACHINE. PAUL F. DUSHA, New York, N. Y., and ANTON FETK, Bohemia, N. Y., assignors to Fetzer-Dusha Co., New York, N. Y., a Corporation of New York. Filed Oct. 1, 1920. Serial No. 414,145. 2 Claims. (Cl. 198—33.)



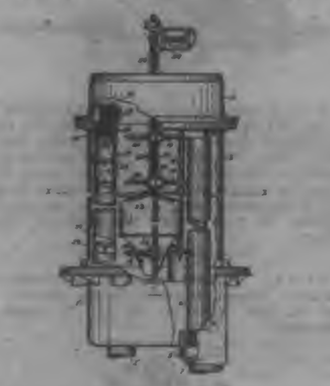
1. A machine for sorting buttons, comprising a pair of conveyer belts and means for feeding buttons to one of said belts, said belt moving in one direction, the other belt disposed in contact with the first-mentioned belt along that portion of its length which moves in the reverse direction, whereby buttons may be gripped therebetween, said second belt, toward the end of its travel, separating from said first-mentioned belt to expose the buttons reversed to view.

1,401,896. HAYDEN. GEORGE L. GERHART, Downingtown, Pa. Filed July 13, 1921. Serial No. 484,191. 2 Claims. (Cl. 145—61.)



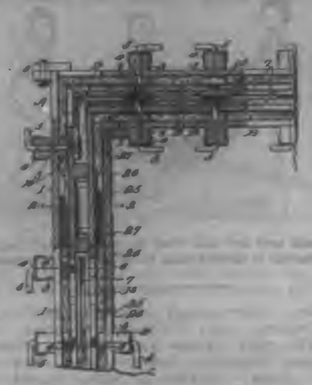
1. A wooden handle having a portion of its length reduced to make it pliable and a closely wound spiral spring reinforcing such reduced portion and increasing its elasticity.

1,401,897. MEASURE FOR DISPENSING LIQUIDS. FRANK B. ELLIS, Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company, a Corporation of Indiana. Filed Feb. 4, 1920. Serial No. 356,811. 8 Claims. (Cl. 73—166.)



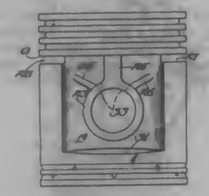
1. In a measure for dispensing liquids, a container having transparent walls adapted to receive and display a quantity of liquid to be dispensed and having a valve controlled discharge port in its lower portion and an overflow pipe therein, the receiving end of which is located in its upper portion, said overflow pipe being adapted to be adjustably positioned; gage members adjustably positioned within the container, each having a series of plates spaced apart and having indicating marks thereon respectively, and a pile of displacement members including means for their support in respective positions corresponding with the spaces between the indicating marks of the gage members, said displacement members being so proportioned respectively that the quantities of liquid held in the container in the several spaces between the indicating marks of the gage members are of definite predetermined quantities.

1,401,898. FORM FOR HOLLOW CONCRETE WALLS. BENJAMIN FARMER, La Forest, Wis. Filed Dec. 14, 1920. Serial No. 430,696. 5 Claims. (Cl. 25—131.)



1. In the construction of hollow concrete walls, a form including inner and outer spaced sets of spaced apart members, means for maintaining the outer members of each set in side to side alinement, spacing blocks between the outer and inner members of each set, and a locking element within the space which will form the hollow of the wall adapted to coöperate with the means for maintaining the outer members in alinement, complementary locking elements of the inner and outer sets being arranged face to face to form spacing means between the inner and outer sets.

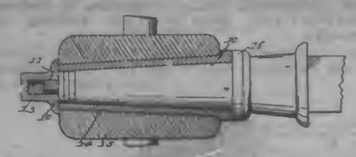
1,401,899. PISTON FOR INTERNAL-COMBUSTION ENGINES. STEPHEN I. FERKETH, Detroit, Mich., assignor to Essex Motors, Detroit, Mich., a Corporation of Michigan. Filed May 20, 1921. Serial No. 471,101. 1 Claim. (Cl. 74—108.)



A piston for an internal combustion engine having near the top thereof an oil scraping edge and on two opposite sides, recesses, the walls of which support wrist pin bearings, there being oil holes through the walls of said recesses, and inclined web members which guide the oil removed by said scraping edge into said oil holes.

1,401,900. VEHICLE-WHEEL SPINDLE. MOSE FISHER, Plain, N. Mex. Filed Aug. 2, 1921. Serial No. 489,252. 2 Claims. (Cl. 301—131.)

1. A vehicle spindle having a bearing or body portion consisting at its outer end of a plurality of successively removable annular spacers or rings fitted upon the threaded nut receiving extension of the spindle and interiorly threaded for engagement therewith.



1,401,901. BLEACHING COMPOSITION. EDWARD FORBES, Webster, Mass. Filed Mar. 19, 1920. Serial No. 367,095. 3 Claims. (Cl. 8—2.)

1. The process of bleaching fabrics consisting in subjecting the fabrics to the action of a solution of chlorid of lime, soda ash, solution of sodium silicate, and water at a temperature approximately 50 degrees F.

1,401,902. PROCESS OR COPYING CAMERA. ARTHUR FRUWIRTH, Brooklyn, N. Y. Filed Sept. 20, 1920. Serial No. 411,417. 17 Claims. (Cl. 88—24.)



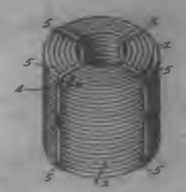
1. A process camera comprising a plurality of tracks, a camera body provided with a front frame and a rear frame, supporting wheels mounted on said camera body engaging said tracks, means controllable at the will of the operator for independently moving the front and rear frames of said camera body, means for locking said frames together so that they will move in unison, and a copy holder connected with said tracks and provided with means for holding a copy always in the same position relative to the track regardless of the thickness of the copy.

1,401,903. WATER OR MUCK BAILER. PEARLE ROSCOE GAWTHROP, Sr., Adrian, W. Va. Filed Jan. 26, 1920. Serial No. 353,975. 1 Claim. (Cl. 294—55.)



A bailer of the class described having an open front end and imperforate top, side bottom and rear end walls, said rear end wall being disposed at an obtuse angle to the bottom wall and merging therewith by a curved surface forming a rocking fulcrum for the bowl, said top wall being inclined at an acute angle to the rear end wall and joined thereto by the curved wall portion, said top and side walls terminating forwardly in a plane perpendicular to the forward edge of the bottom wall, said top and side walls being joined by curved wall portions whereby the interior of said scoop is free from angles.

1,401,904. COIL OF RUBBER HOSE AND THE PRODUCT OF COILING. Alvan M. Griffin, Wilmington, Del., assignor to The Electric Hose and Rubber Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 1, 1920. Serial No. 421,204. 4 Claims. (Cl. 206—59.)



1. As a new article of manufacture, a coil of rubber hose consisting of a series of convolutions, the outer end of the hose being held to the body of the coil and the hose having a torsional stress, which tends to force the inner convolutions outward so as to cause them to retain their position in the coil.

1,401,905. RADIATOR-SHUTTER. Louis Samuel Hanson, Lewistown, Mont. Filed Dec. 24, 1919. Serial No. 347,052. 1 Claim. (Cl. 257—132.)



A radiator shutter including a series of vanes, means for hingedly supporting each of said vanes, said points of support being alined with respect to each other, brackets rigidly attached to each of said vanes, equal-length arms forming continuations of said brackets, a lever formed with a series of equally spaced openings the ends of said arms being adapted to extend through said openings, a rockingly supported bellcrank, means for rocking said bellcrank, said bell-crank having its point of rocking support in line with the points of hinge suspension of said vanes, one of the arms of said bell-crank being in line with the series of openings formed in said lever and extending through one of the same.

1,401,906. SEESAW AND THE LIKE. James G. Hagen, Bascom, Ohio. Filed Feb. 19, 1921. Serial No. 446,212. 8 Claims. (Cl. 46—22.)

1. A device of the kind described comprising a main support that has a rocker base and a seat above such base, oppositely extending arms slidably supported beneath said seat, and a handle on each arm situated to be reached

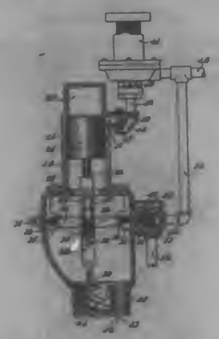


from said seat and also from the main support seat when the arm seat is shifted close to the main support seat.

1,401,907. COMPOSITION OF MATTER FOR FILLING, POLISHING, AND FINISHING FLOORS, WOODWORK, AND OTHER UNPOLISHED SURFACES. Freeman Herrington, Lawrence, Kans. Filed Jan. 28, 1921. Serial No. 440,753. 2 Claims. (Cl. 134—36.)

1. A composition of matter designed as an original finish for wooden surfaces, comprising a mixture of commercial shellac solution and linseed oil, with the quantity of shellac largely in excess of the oil, with the addition of turpentine and alcohol to insure the mechanical mixing of the oil and shellac.

1,401,908. COMPRESSOR-CONTROLLING MECHANISM. Fred D. Hollingworth, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Apr. 17, 1919. Serial No. 290,645. 24 Claims. (Cl. 230—24.)

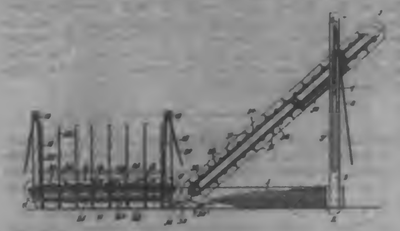


1. In combination, a compressor, a plurality of controlling means for said compressor having actuating elements movable in paths disposed at an angle to each other, and a single means for actuating both of said actuating elements.

1,401,909. GRAIN-ELEVATOR. James W. Hurt, York, Nebr. Filed June 21, 1919. Serial No. 305,727. 2 Claims. (Cl. 214—91.)

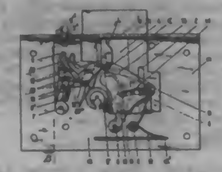
1. In means for the purpose set forth, the combination of a frame, an endless conveyer mounted at one end of the frame, upstanding posts secured on the frame adjacent the ends of the conveyer, grain rakes hinged to the frame alongside the conveyer, and means connected to

the rakes and posts for swinging the rakes, an endless elevator mounted on the frame at one end of the conveyer, said elevator being pivoted to swing in both vertical and horizontal planes, posts secured to the end of the frame



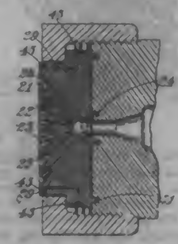
away from the conveyer, and a cross arm in slidable engagement with the posts upon which the free end of the elevator bears; means for raising and lowering the cross arm.

1,401,910. LOCK. Gerhardt Sigvert Rehling Kampmann, Taulov-Station, Denmark, assignor to Naamloose Vennootschap Handel-Maatschappij "Planeet," The Hague, Netherlands, a Corporation of The Netherlands. Filed Feb. 25, 1921. Serial No. 447,749. 3 Claims. (Cl. 70—70.)



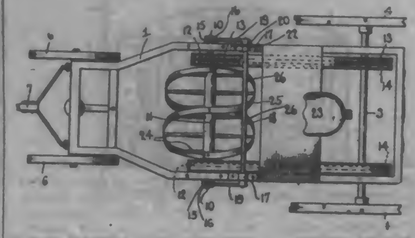
1. A lock including a bolt, a key operated control therefor, means set by the movement of the key following actuation of the bolt whereby to prevent use of any other key, and means adapted to firmly hold the first said means against moving out of set position.

1,401,911. FUEL-SPRAYING NOZZLE FOR INTERNAL-COMBUSTION ENGINES. Karl Otto Keller, Sunderland, Durham, England, assignor of one-half to Robert Pile Doxford, Sunderland, England. Filed July 8, 1920. Serial No. 394,682. 2 Claims. (Cl. 299—141.)



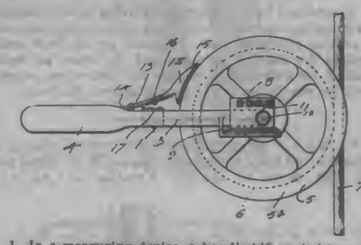
1. A fuel-spraying nozzle for internal-combustion engines comprising a plate-like member formed with a projection thereon and having a plurality of passages extending through said projection, fuel-spraying plugs, respectively mounted in the discharge ends of said passages and a guard-plate attached to the circumference of said member and to said projection and disposed with its outer face meeting smoothly the said end face of said projection and its inner face spaced away from the face of the said member to provide a circulation space for cooling water.

1,401,912. CROWNING-MACHINE. Thomas J. Kula, Merino, Colo. Filed Mar. 2, 1920. Serial No. 362,835. 1 Claim. (Cl. 97—65.)



In a crowning machine for cutting alfalfa and like growth of vegetation for arranging the same on the ground prior to the plowing which turns the growth under the soil for manuring purposes, a frame having drive wheels journaled at one end thereof and guide wheels journaled at the opposite end thereof, oppositely arranged depending slotted brackets on the frame between the wheels thereof, a shaft having its ends received through the slots of the brackets, journals on the outer ends of the shaft, means connected to said journals, means on the frame connected with said first mentioned means for adjusting the shaft vertically with respect to the frame, spokes radiating from the frame, spiral cutters secured on the outer ends of the spokes, and means actuated by the drive wheels of the machine for revolving the shaft.

1,401,913. MEASURING DEVICE. David G. Lorraine, Taft, Calif. Filed Oct. 23, 1918. Serial No. 259,376. 2 Claims. (Cl. 33—134.)

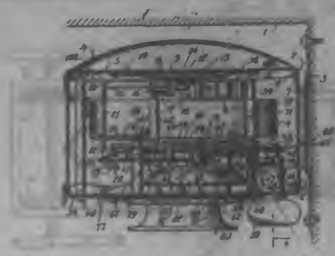


1. In a measuring device, a handle bifurcated to provide arms, a wheel rotatably supported between the arms having its peripheral edge grooved to receive a cable, a brake pivoted on the handle for depression by the hand grasping the handle, said brake extending into the groove to prevent undue lateral strain on the pivot, a spring to normally urge the brake away from the wheel, said brake resting on and being movable away from the spring to permit adjustment of its tension and a register adapted to be operated by the wheel.

1,401,914. AUTOMATIC FIRE-ALARM DEVICE. Ernest A. Lowe, North Plainfield, N. J., assignor to Automatic Sprinkler Company of America, New York, N. Y., a Corporation of New York. Filed Dec. 27, 1918. Serial No. 268,443. 17 Claims. (Cl. 116—145.)

8. In automatic fire alarm devices, a thermostat, an audible alarm signal, a motor to operate said alarm, detent

mechanism by normally restrain said motor and comprising detent members adapted to be actuated by said thermostat, a spring pressed resetting arm cooperating with said detent members to reset the same in interlocked restraining position and winding devices for said motor comprising a winding sleeve having a resetter lug to actuate said resetter arm as said winding sleeve is operated during the



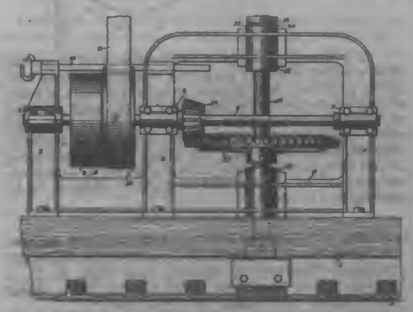
winding movement, a resetter dog loosely pivoted on said resetter arm and adapted to be engaged by said resetter lug and a spring normally holding said resetter dog in position with respect to said arm, a winding member cooperating with said winding sleeve and a lost motion connection between said winding member and sleeve.

1,401,915. SAFETY-RAZOR AND HAIR-CUTTING APPLIANCE. ALEXANDER JOHN MAINWARING, St. James, London, England. Filed Nov. 29, 1919. Serial No. 341,406. 8 Claims. (Cl. 30—12.)



1. A combined hair cutting and shaving device comprising a comb having two different sets of teeth in alinement, and cutting means on said comb, one set of teeth being organised for shaving purposes and the other set being organised for hair cutting so that the device can be used at will for shaving or for hair cutting from the head.

1,401,916. GEARING DRIVING UNIT. FRANK J. MUENCH and JOHN L. MUENCH, Newark, N. J. Filed Dec. 30, 1920. Serial No. 434,039. 3 Claims. (Cl. 74—7.)



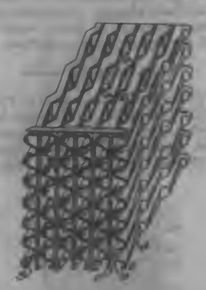
1. A power transmission unit comprising an integral metallic frame, a driving shaft supported on said frame, bearing portions provided on said frame at the opposite ends of said driving shaft, a driven shaft disposed at an angle to said driving shaft and lateral with respect to the axis thereof, and bearing portions on the frame at each end of the driven shaft, each of said above-mentioned bearing portions comprising a removable plate, each removable plate being disposed on the frame with relation to its shaft on the side of the frame opposite the other shaft, whereby one shaft may be removed from the frame without disturbing the other.

1,401,917. TAPE-TRANSMITTER. DONALD MURRAY, London, England, assignor to The Western Union Telegraph Company, a Corporation of New York. Filed Aug. 14, 1914. Serial No. 856,865. 20 Claims. (Cl. 178—17.)



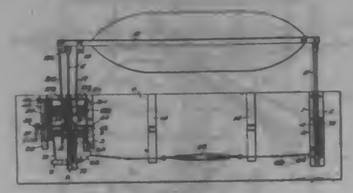
1. In an automatic tape transmitter of the step by step type, means operated by the tape for stopping the transmitter automatically, means for sending combinations of differential impulses such as positive and negative or make and break impulses together with means for sending a predetermined combination of impulses continuously to line when the transmitter is stopped automatically by the tape, substantially as described.

1,401,918. RADIATOR. FRANK A. NEVEU, Los Angeles, Calif. Filed Nov. 7, 1919. Serial No. 336,401. 6 Claims. (Cl. 257—130.)



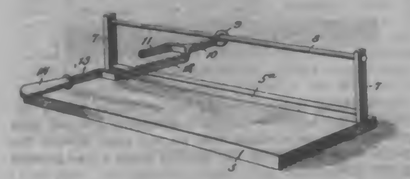
1. A water cooler or radiator for internal combustion engines, comprising corrugated, upright panels or sheets set face to face in pairs that are spaced vertically from each other, the corrugations extending vertically and forming, between the panels of each pair, continuous tubes for the flow of water; and flow forming spacers for supporting the adjacent panels of adjacent pairs, the spacers each being of a width substantially equal to the width of the panels and transversely corrugated, the ridges of the corrugations conforming to, and contacting with, the transverse sectional contour of an adjacent panel; the panels comprising each pair having their corrugations centrally offset as to the opposite panel.

1,401,919. SHIP'S DAVIT. CHARLES B. ORDON, Somerville, Mass. Filed May 26, 1920. Serial No. 384,409. 11 Claims. (Cl. 9—22.)



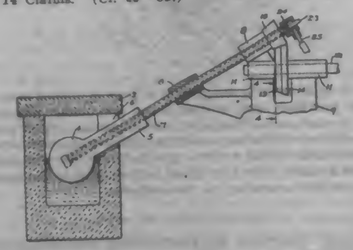
1. Boat launching apparatus comprising a base, a davit movable thereon, davit controlling means including a boom and a winch therefor, locking means on the base for locking the boom against backward travel, a movable stop on the base for determining the extent of outward travel of the boom, boat lowering means including a winch, and common operating means for the winches.

1,401,920. VALVE-SPRING-COMPRESSING TOOL. HENRY W. PAINE, Eagle Grove, Iowa. Filed Jan. 3, 1921. Serial No. 434,470. 6 Claims. (Cl. 29—86.3.)



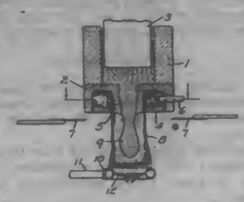
1. The combination with a base and a rod mounted rigidly in parallelism with the base, of a lever slidable and swingable on said rod, said lever being forked whereby it may be used to compress valve springs and at the same time allow withdrawal or replacement of the valve keys.

1,401,921. GLASS-FEEDING APPARATUS. KARL E. PEILER, Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y., a Corporation of New York. Filed Dec. 30, 1916. Serial No. 139,767. 14 Claims. (Cl. 49—55.)



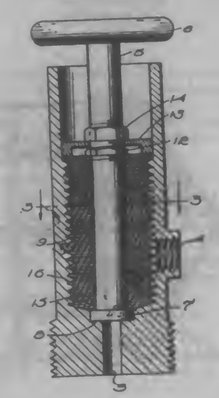
13. The combination with a container for molten glass having a discharge outlet, of a propeller within the container, means for intermittently actuating the propeller to cause a movement of glass toward the outlet, and means to permit adjustment of the duration of the active periods of the propeller.

1,401,922. GLASS-WORKING. KARL E. PEILER, West Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y., a Corporation of New York. Filed Oct. 22, 1917. Serial No. 197,751. 21 Claims. (Cl. 49—55.)



1. The method of conserving the heat of molten glass flowing from a container and successively severed into charges, which consists in inclosing the vertical sides of the flowing glass below the plane of severance of the charges with an unconfined flame curtain substantially out of contact with the glass.

1,401,923. VALVE. FLOYD TROUTMAN ROMBERGER, West Lafayette, Ind. Filed July 8, 1920. Serial No. 394,663. 4 Claims. (Cl. 251—35.)



1. A valve comprising a valve casing, a valve stem arranged therein, a plurality of sheets of laminated material arranged on said valve stem and forming the valve body, the interior of the valve casing being provided with screw threads, and the valve body being provided with screw threads engaging the screw threads of the valve casing, and means for adjusting the pressure on said sheets of laminated material.

1,401,924. PROCESS OF RECOVERING MOLYBDENUM FROM MOLYBDENITE. GEORGE W. SARGENT, Pittsburgh, and JOSEPH W. WHITTENBURN, Washington, Pa. Filed June 14, 1920. Serial No. 388,785. 5 Claims. (Cl. 75—17.)

1. A step in the process of recovering molybdenum from molybdenite, which consists in causing an oxid of manganese to react with molybdenite.

1,401,925. ALLOY STEEL. GEORGE W. SAGAMY, Pittsburgh, and JOSEPH W. WERTENBAKER, Washington, Pa. Filed June 14, 1920. Serial No. 388,787. 2 Claims. (Cl. 75—1.)

1. An alloy steel consisting of from about .40% to .55% carbon, .50% to 80% manganese, 1.80% to 2.10% silicon, a fraction of 1% to not more than about 1.25% molybdenum, and remainder iron except for impurities.

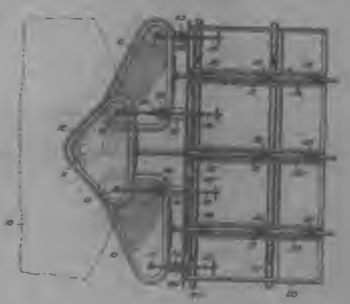
1,401,926. ALLOY STEEL. GEORGE W. SAGAMY, Pittsburgh, and JOSEPH W. WERTENBAKER, Washington, Pa. Filed June 14, 1920. Serial No. 388,788. 3 Claims. (Cl. 75—1.)

1. An alloy steel consisting of not more than .80% carbon, from about 1.15% to 3.00% manganese, from a fraction of 1% to about 1.25% molybdenum, and the remainder iron.

1,401,927. PROCESS OF RECOVERING MOLYBDENUM FROM MOLYBDENITE. GEORGE W. SAGAMY, Pittsburgh, and JOSEPH W. WERTENBAKER, Washington, Pa. Filed July 9, 1920. Serial No. 394,858. 5 Claims. (Cl. 75—17.)

1. A step in the process of recovering molybdenum from molybdenite, which consists in causing iron oxid to react with molybdenite.

1,401,928. INGOT-POURING MECHANISM. SAMUEL B. SHELDON, Duluth, Minn. Filed Feb. 11, 1920. Serial No. 357,877. 7 Claims. (Cl. 22—79.)



1. Ingot pouring mechanism comprising a trough adapted to receive molten metal from a casting ladle or the like and having a plurality of discharge nozzles, means independent of the tilting of said trough, for controlling the discharge of metal through the nozzles thereof, and additional troughs located beneath each discharge nozzle of the first trough.

1,401,929. PHONOGRAPH-NEEDLE SHARPENER. AXEL W. WAHLIN, Chicago, Ill., assignor to Gustave Lideen, Chicago, Ill. Filed July 26, 1919. Serial No. 313,466. 8 Claims. (Cl. 144—148.)

1. The combination with a phonograph and the reproducer mechanism thereof, of a needle sharpener slidably mounted on the phonograph and adapted to be moved into position to sharpen a needle while it is held in position in the needle holder of the phonograph reproducer mechanism when said reproducer mechanism is moved into a predetermined position to dispose the needle in the path of said needle sharpener.



1,401,930. PISTON-RING. HENRY ARCHIBALD WAINWRIGHT, Connersville, Ind., assignor to Wainwright Engineering Corporation, Connersville, Ind., a Corporation of Indiana. Filed Aug. 18, 1919. Serial No. 317,216. 7 Claims. (Cl. 74—109.)



1. A piston ring having on its peripheral face a circumferential series of oblique overlapping grooves, said grooves being so arranged that an any point around the piston there are always two grooves along a line parallel to the axis.

1,401,931. ADJUSTABLE PIPE-WRENCH. WILLIAM WHELAN, Plymouth, England. Filed Aug. 5, 1918. Serial No. 248,931. 2 Claims. (Cl. 81—91.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

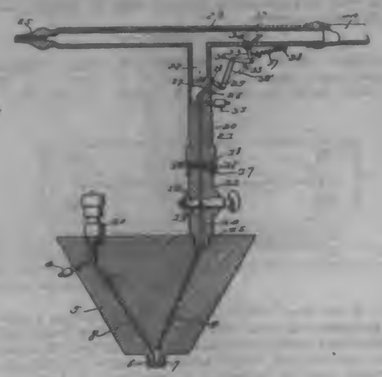


1. A pipe wrench comprising a pair of levers respectively provided with curved inner and outer gripping jaws, a pivot connecting said levers together, a third gripping element extending across the inner end portions of the jaws and having a curved slot in which the said pivot operates, and a pivot connecting said element to the outer jaw and also operating in the said slot.

1,401,932. PROCESS OF PRODUCING MOLYBDENUM TRIOXID. JOSEPH W. WEITENKORN, Washington, Pa. Filed June 14, 1920. Serial No. 388,789. 5 Claims. (Cl. 23—13.)

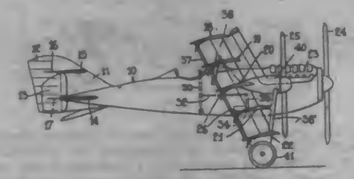
1. The process of producing molybdenum trioxid, which consists in causing an oxid of manganese to react with molybdenite at an elevated temperature, and in supplying oxygen to the resulting heated mass.

1,401,933. DENTAL VULCANIZER. HENRY LOUIS WYSSET, Albany, N. Y. Filed June 14, 1921. Serial No. 477,464. 3 Claims. (Cl. 18—7.)



1. In a safety device for vulcanizers, a valve coupling connected to a discharge opening of the vulcanizer, a safety disk beyond the valve of the coupling, means for holding the disk in place, a pipe in communication beyond the disk, said pipe having a valve seat therein, the said valve being operated by pressure of steam escaping through the coupling, a fuel supply pipe, a valve therein, and means for communicating motion of the valve in the first mentioned pipe to the valve in the fuel pipe for closing the last mentioned valve, and means for holding the valve closed.

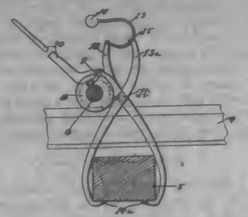
1,401,934. HOVERING AIRPLANE. ALBERT F. ZAHM, Washington, D. C. Filed Jan. 22, 1919. Serial No. 272,558. 6 Claims. (Cl. 244—14.)



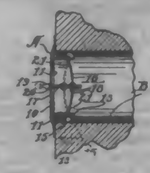
1. In an airplane, the combination, of a plural number of propellers, the axes of the propellers being horizontal, curved supporting surfaces including adjustable and fixed wing panels, the adjustable wing panels being movable into positions whereby the propeller air-blast is deflected downwardly with the result that sufficient vertical lift is obtained to bodily lift the machine into the air without altering its flying attitude and without altering the angular relation of the propeller axis to the horizontal, together with a control surface for maintaining the machine in longitudinal trim, the location of the control surface relatively to the fixed wing panel being such that the propeller air-blast successively impinges the fixed wing panel and the control surface under all flight conditions.

1,401,935. TIE AND RAIL HOLDER. JOHN AHLBY, Bergland, Mich. Filed Apr. 23, 1921. Serial No. 463,854. 2 Claims. (Cl. 254—121.)

1. A device of the class described consisting of a hand lever adapted to fulcrum on a rail, a pair of tongs pivotally mounted on the end of the lever and adapted to grip under a tie placed under the rail, and a curved bar pivotally connected to the upper end of the tongs, said bar being slidable in the upper end of the other tong.



1,401,936. FLUE-STOPPER. LAFAYETTE J. ALLIE, St. Paul, Minn. Filed Feb. 24, 1920. Serial No. 360,807. 8 Claims. (Cl. 126—319.)

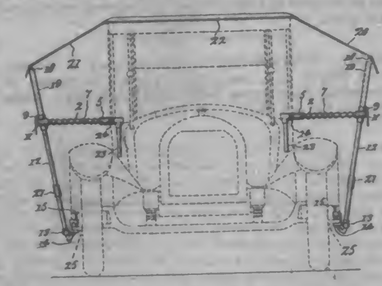


1. A flue stopper comprising a closure member, a pair of outwardly extending brackets adapted to be folded back into the plane of said closure member, and a normally planiform spring member adapted to coöperate with said brackets for securing the stopper within a flue opening.

1,401,937. PURIFICATION OF MALEIC ACID BY REDUCING AGENTS. GEORGE C. BAILEY, Woodcliff-on-Hudson, N. J., assignor to The Barrett Company, a Corporation of New Jersey. Filed Nov. 9, 1920. Serial No. 422,794. 9 Claims. (Cl. 23—24.)

1. The process of purifying maleic acid, which comprises treating a mixture of maleic acid and benzoquinone with a reducing agent.

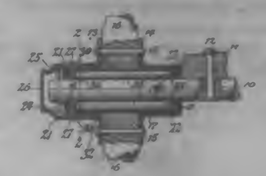
1,401,938. PORTABLE COT FOR USE WITH AUTOMOBILES. CLARENCE F. BALL, Rutland, Vt. Filed May 4, 1921. Serial No. 466,804. 2 Claims. (Cl. 5—72.)



1. A cot for use in connection with vehicles comprising pairs of telescoping side rails adjustably fitted together,

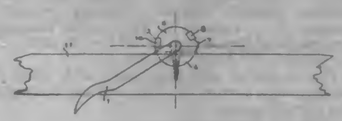
end bars connecting the ends a fabric stretched across said telescoping rails and end bars, four-way coupling pieces incorporated in the outer telescoping rails, legs extending downwardly from the lower branches of the four-way coupling pieces, means uniting said legs at their lower portions, a clamp associated with said means and adapted to engage the running board of the vehicle, standards rising from the upper branches of the four-way coupling pieces, a fabric secured to said standards to form a parallel side for the cot, and angled pieces attached to the inner telescoping rails and adapted to fit down within the sides of the vehicle, substantially as described.

1,401,939. WHEEL-MOUNTING. CHARLES A. BAUMLER, Buffalo, N. Y., assignor to The Buffalo Sled Company, Buffalo, N. Y., a Corporation of New York. Filed Mar. 17, 1920. Serial No. 366,661. 2 Claims. (Cl. 301—3.)



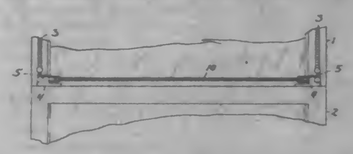
1. A wheel mounting comprising a plurality of rollers arranged parallel and adapted to surround an axle, a cylindrical casing engaging its inner side with the outer side of said rollers and provided at one end with an integral inwardly projecting head having the form of an annular flange, and a removable head detachably connected with the other end of said casing and having the form of a ring.

1,401,940. SKEE-STOPPER. ALBERT HENNING EFRAIM BECKMAN, Stockholm, Sweden. Filed July 1, 1921. Serial No. 481,998. 4 Claims. (Cl. 88—67.)



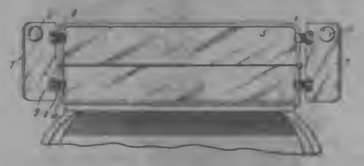
1. A stopper for skees consisting of a rearwardly directed up and down swingable arm with an integral pivot passed through a lug on the skee, said lug and said pivot having coöperating means for limiting the swinging movement of the arm and for preventing undesired withdrawal of the pivot.

1,401,941. WINDOW-FASTENER. EDWARD M. BROOKS, Fort Wayne, Ind., assignor of one-half to Samuel H Bradshaw, Fort Wayne, Ind. Filed Feb. 4, 1921. Serial No. 442,346. 1 Claim. (Cl. 292—54.)



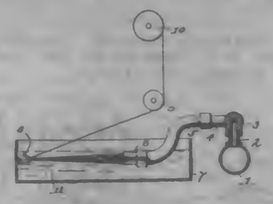
In a securing device for a pair of window sashes, a pair of ratchet members secured to one sash, one at each side thereof; a rod connecting the ratchet members; means in connection with the other sash adapted to be engaged by the ratchets and prevent opening movement of one sash relative to the other; and means in connection with each ratchet to hold the same in engaging and disengaging positions.

1,401,942. SIDE WIND-DEFLECTOR. HENRY BENERS and LOUIS BERGER, Brooklyn, N. Y. Filed July 29, 1920. Serial No. 399,779. 3 Claims. (Cl. 46—67.)



1. A side wind deflector for vehicles comprising a plate of non-reflecting transparent material, mirror means carried by said plate at a determined distance from the outer edge thereof, said mirror means having a relatively restricted area as compared to the area of said non-reflecting transparent plate, and means for securing said plate to the vehicle, said securing means being attached to said plate at a distance from the said outer edge greater than said determined distance.

1,401,943. PROCESS FOR THE PRODUCTION OF THREADS. BENNO BOEZINOWSKI, Cleveland, Ohio. Filed Aug. 31, 1917. Serial No. 189,079. 2 Claims. (Cl. 18—54.)



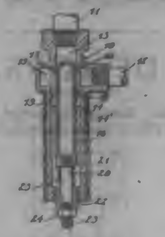
1. The process of producing fine and uniform artificial threads, which consists in discharging the material of which the thread is formed from a plurality of fine openings, thereby producing capillary threads; coagulating such capillary threads and bringing them into a bundle, drawing the bundled threads by a positively driven drawing device; and thereafter, and as a continuing operation, winding the thread thus produced under tension in excess of that exerted by the drawing device.

1,401,944. COMPRESSOR-UNLOADING MECHANISM. HALBERT B. HALVORSEN, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Apr. 22, 1919. Serial No. 291,819. 17 Claims. (Cl. 230—24.)

1. In a compressor, in combination, a thermally operated unloading means comprising a casing, a valve therein, operating means for said valve in said casing and comprising a plurality of members having different coefficients of heat expansion, and means for discharging pressure fluid from said casing controlled by said valve.

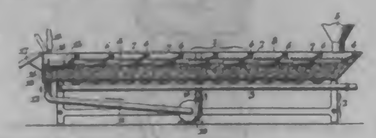
14. In a compressor, in combination, an unloading means including a member having one coefficient of heat expansion, a second member having a different coefficient

of heat expansion, a valve seat connected to said first named member, and a second valve element connected to said second named member by a lost motion connection



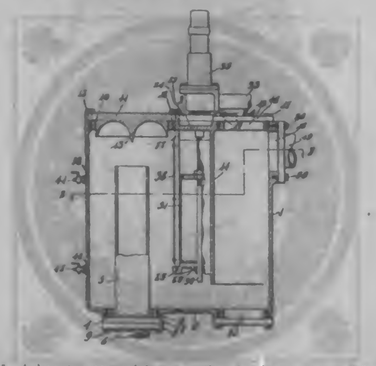
and adapted to coöperate with said seat, one of said valve elements being movable relative to the other element upon a change in temperature.

1,401,945. COOKING APPARATUS. FRANK ELLIS MORRIS, Philadelphia, Pa. Filed Jan. 19, 1921. Serial No. 438,322. 3 Claims. (Cl. 53—7.)



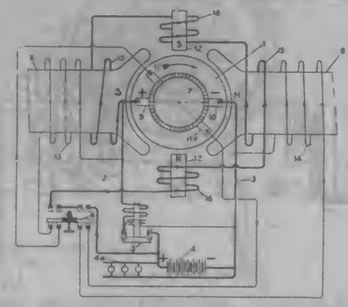
1. An apparatus of the character described comprising a trough or receptacle containing hot liquor into which the articles to be cooked are introduced; in combination with a spray system by which cooking liquor is directed in the form of jets to impinge at an inclination upon the articles for the purpose of progressing them while afloat in the receptacle.

1,401,946. BOOSTER. JOHN OLIPHANT, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Aug. 11, 1919. Serial No. 316,667. 15 Claims. (Cl. 103—84.)



1. A booster comprising a casing having a top and bottom and a discharge opening, and a web coöperating with the side wall thereof to form a discharge passage communicating with said opening and extending from the top of said casing to a point above the bottom thereof.

1,401,947. DYNAMO-ELECTRIC MACHINE. WILLIAM A. TURBAYNE, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Mar. 9, 1916, Serial No. 83,190. Renewed May 9, 1921. Serial No. 468,160. 18 Claims. (Cl. 290—31.)



2. In a starting and lighting system, a dynamo-electric machine adapted to operate either as a generator or as a motor, said machine including field poles and an armature, and means for permitting the distortion of the field flux by the armature reaction for regulating purposes while the machine is operating as a generator and preventing said distortion while the machine is operating as a motor.

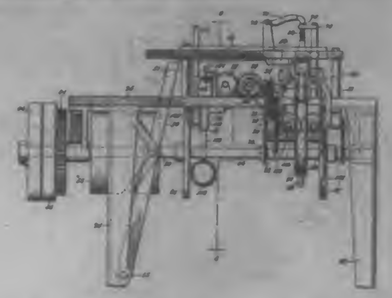
REISSUES.

15,253. MATTRESS-TUFTING MACHINE. GUY DILLON, Indianapolis, Ind., assignor, by mesne assignments, to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Oct. 10, 1921. Serial No. 506,901. Original No. 1,211,924, dated Jan. 9, 1917, Serial No. 90,223, filed May 8, 1916. 4 Claims. (Cl. 112—3.)



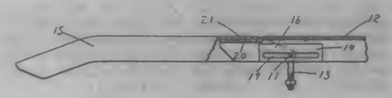
4. In a mattress tufting machine, the combination, with a reciprocating needle for carrying the twine through the mattress, and forming a U-shaped loop in said twine, means for temporarily holding the end of the twine in restraint, hitch-turning means adapted to catch and turn a hitch in the twine, a cross-hook adapted to catch the end of the twine when freed by the twine holding means and for pulling said twine end through the U-shaped loop for completing the knot, shifting means for moving said hook to free the twine when the knot is drawn tight and before the needle reaches the upper end of its stroke, and a cam for actuating said shifting means.

15,254. STAMPING-MACHINE. MATHIAS FORNO and LAWRENCE P. SOUTHWICK, Richmond, Va., assignors, by mesne assignments, to Bickes & Smith Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 23, 1919. Serial No. 299,336. Original No. 1,244,428, dated Oct. 23, 1917, Serial No. 62,323, filed Nov. 19, 1915. 48 Claims. (Cl. 216—55.)



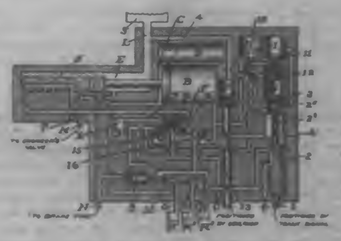
17. In a stamp affixing machine, means for holding an unconnected strip of stamps, means for simultaneously severing the strip between each pair of adjacent stamps to form a plurality of unconnected stamps, and means for affixing said stamps.

15,255. BUMPER FOR AUTOMOBILES. WALTER P. LIMACHER, Pasadena, Calif. Filed Oct. 1, 1921. Serial No. 504,789. Original No. 1,341,917, dated June 1, 1920, Serial No. 367,807, filed Mar. 22, 1920. 6 Claims. (Cl. 293—55.)



5. A bumper comprising a main body and end horns of channel bar overlapping the ends of said main body, and pivoting members extending through the upper and lower walls of said overlapping end horns and securing the same to said main body.

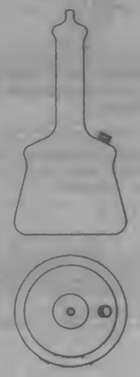
15,256. AIR-BRAKE-CONTROLLING APPARATUS. ANCEL ST. JOHN, Cleveland, Ohio, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Feb. 2, 1920. Serial No. 355,786. Original No. 1,256,607, dated Feb. 19, 1918, Serial No. 809,449, filed Dec. 30, 1913. 17 Claims. (Cl. 246—182.)



15. In a train speed control apparatus, the combination with fluid pressure operated mechanism capable of assuming a plurality of different positions for determining corresponding speed limits of the train, of a valve device having corresponding successive positions and operated from the trackway for controlling the fluid pressure on said mechanism.

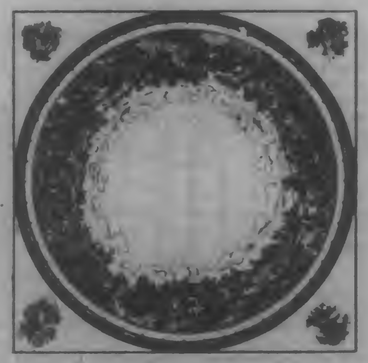
DESIGNS.

60,081. BOTTLE. EDWARD E. BAKER, Pittsfield, Mass. Filed Apr. 13, 1921. Serial No. 461,106. Term of patent 14 years.



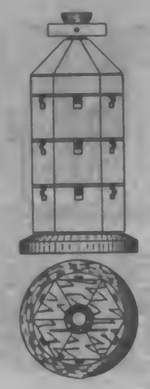
The ornamental design for a bottle substantially as shown.

60,082. OILCLOTH TABLE-COVER. CARROOUS BASTOW, Allwood, N. J., assignor to American Wholesale Corporation, Baltimore, Md., a Corporation. Filed Aug. 25, 1921. Serial No. 495,410. Term of patent 7 years.



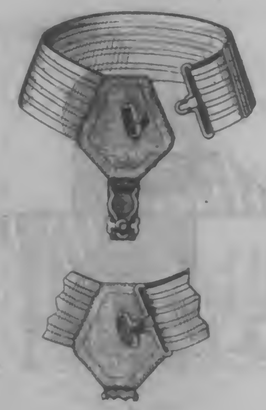
The ornamental design for an oilcloth table-cover, as shown.

60,083. COMBINED ADVERTISING DEVICE AND REVOLVING STAND. BENJAMIN F. BURNS, Omaha, Nebr. Filed Apr. 11, 1921. Serial No. 460,489. Term of patent 3½ years.



The ornamental design for a combined advertising device and revolving stand, as shown.

60,084. GARTER. TILLMAN CAHN, Elkins Park, Pa., assignor to Pioneer Suspender Company, a Corporation of Pennsylvania. Filed July 14, 1920. Serial No. 396,321. Term of patent 14 years.



The ornamental design for a garter, as shown.

60,085. INDICATOR. ARTHUR B. CHRISTOPHER, St. Louis, Mo. Filed July 2, 1921. Serial No. 482,222. Term of patent 14 years.



The ornamental design for an indicator, as shown.

60,086. [WITHDRAWN.]

60,087. INDIVIDUAL HOG-HOUSE. LUVERNE K. ELLIS, Des Moines, Iowa. Filed July 6, 1920. Serial No. 394,867. Term of patent 3½ years.



The ornamental design for an individual hog house, as shown.

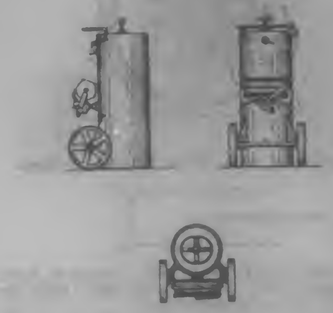
60,088. [WITHDRAWN.]

60,089. COMBINATION CIGAR-CUTTER AND BOX-OPENER. WILLIAM FECHTELER, Kansas City, Mo. Filed Dec. 18, 1920. Serial No. 431,776. Term of patent 14 years.



The ornamental design for a combination cigar cutter and box opener, as shown.

60,090. PORTABLE LIQUID-DISPENSING APPARATUS. TRUMAN H. PERKINS, Seattle, Wash. Filed July 27, 1921. Serial No. 488,019. Term of patent 14 years.



The ornamental design for a portable liquid dispensing apparatus, as shown.

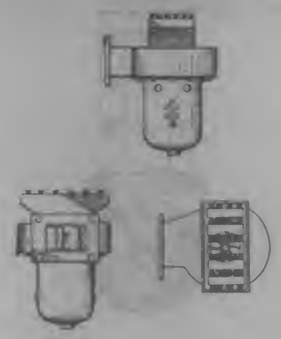
60,091. [WITHDRAWN.]

60,092. COFFIN. ALBERT HALADEY and JAN WROBEL, Minneapolis, Minn. Filed Jan. 4, 1921. Serial No. 435,033. Term of patent 7 years.



The ornamental design for a coffin as shown.

60,093. VACUUM-CLEANER FOR ERASERS. WILLIAM J. HAYNES, Jr., Kansas City, Mo., assignor to National Wood Renovating Company, Kansas City, Mo., a Corporation of Missouri. Filed July 30, 1920. Serial No. 400,245. Term of patent 14 years.



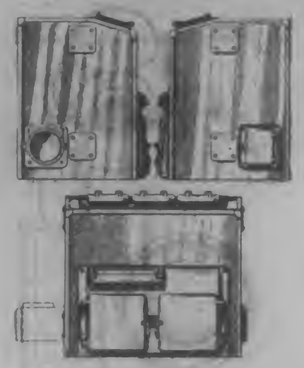
The ornamental design for a vacuum cleaner for erasers, as shown.

60,094. PINWHEEL. WILLIAM C. HEINDL, Rochester, N. Y. Filed Dec. 8, 1919. Serial No. 343,432. Term of patent 3½ years.



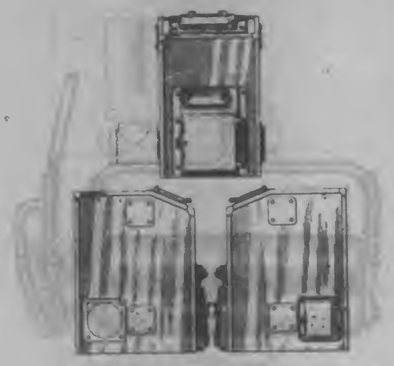
The ornamental design for a pinwheel as shown.

60,095. HEATING APPARATUS. FRANK B. HOWELL, Buffalo, N. Y. Filed Dec. 28, 1920. Serial No. 432,865. Term of patent 14 years.



The ornamental design for a heating apparatus, as shown.

60,096. HEATING APPARATUS. FRANK B. HOWELL, Buffalo, N. Y. Filed Dec. 28, 1920. Serial No. 432,866. Term of patent 14 years.



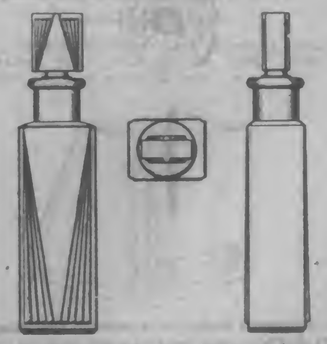
The ornamental design for a heating apparatus, as shown.

60,097. RAG DOLL. MARGUERITE KABERLAU, Provincetown, Mass. Filed May 12, 1921. Serial No. 469,050. Term of patent 3½ years.



The ornamental design for a rag doll as shown.

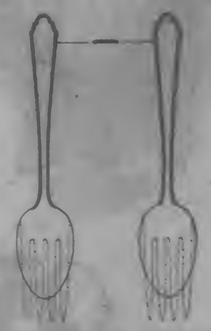
60,098. BOTTLE. AUGUST F. KAMMER, South Orange, N. J. Filed Apr. 15, 1921. Serial No. 461,692. Term of patent 14 years.



The ornamental design for a bottle, as shown.

60,099. [WITHDRAWN.]

60,100. HANDLE FOR A SPOON, FORK, OR SIMILAR ARTICLE. FREDERICK W. KOONS, Greenfield, Mass., assignor to Rogers, Lunt & Bowlen Company, Greenfield, Mass., a Corporation of Massachusetts. Filed Apr. 14, 1921. Serial No. 461,417. Term of patent 14 years.



The ornamental design for a handle for a spoon, fork, or similar articles as shown.

60,101. WEATHER-FORECASTING DEVICE. RICHARD LANCASTER, Gilford, N. H. Filed Aug. 4, 1921. Serial No. 489,881. Term of patent 7 years.



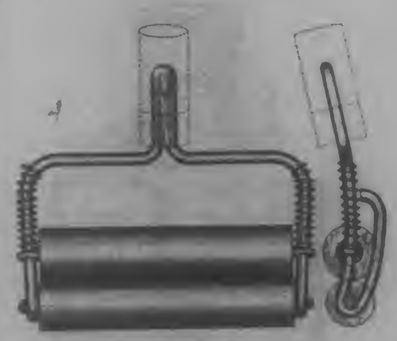
The ornamental design for a weather forecasting device, as shown.

60,102. OIL-BURNER. EDWARD W. MEHAN, Kansas City, Mo. Filed May 20, 1921. Serial No. 472,918. Term of patent 14 years.



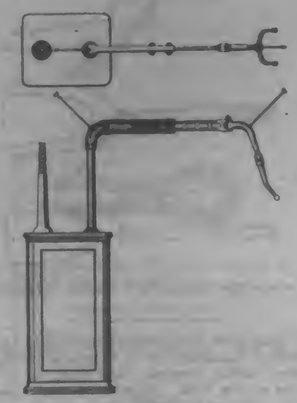
The ornamental design for an oil burner as shown.

60,103. MOP-HEAD. MABEL P. MCNAUGHTON and JOHN MCNAUGHTON, New York, N. Y. Filed July 15, 1921. Serial No. 485,107. Term of patent 7 years.



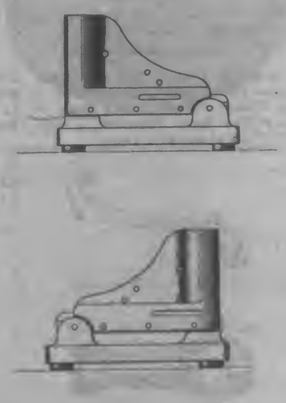
The ornamental design for a mop head, as shown.

60,104. COMBINED CABINET AND STANDARD FOR X-RAY APPARATUS. OSCAR H. PIEPER and ALPHONSE F. PIEPER, Rochester, N. Y. Filed Nov. 18, 1920. Serial No. 425,005. Term of patent 14 years.



The ornamental design for a combined cabinet and standard for X-ray apparatus, as shown.

60,105. STAPLING-MACHINE FRAME. FRIDOLIN POLZER, New York, N. Y. Filed Sept. 11, 1920. Serial No. 409,714. Term of patent 14 years.



The ornamental design for a stapling machine frame as shown.

60,106. LENS OR SIMILAR ARTICLE. VITO A. QUAGLIANO, East Boston, Mass. Filed Apr. 13, 1921. Serial No. 461,107. Term of patent 14 years.



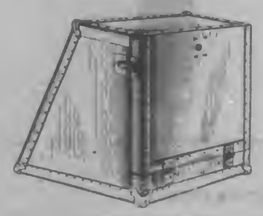
The ornamental design for a lens or similar article, substantially as shown.

60,107. BRUSH. JAMES F. QUIMBY and MARION O. QUIMBY, Pawtucket, R. I. Filed Sept. 27, 1920. Serial No. 413,176. Term of patent 14 years.



The ornamental design for a brush, as shown.

60,108. MOTORCYCLE-TRUNK. FRANCIS J. ROMADKA, Milwaukee, Wis. Filed Apr. 30, 1918. Serial No. 231,761. Term of patent 3½ years.



The ornamental design for a motorcycle trunk, as shown.

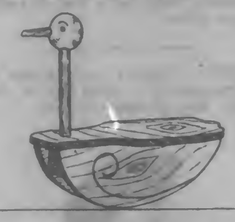
60,109. COMBINATION LADLE AND STRAINER. SAMUEL ROSEN, Utica, N. Y. Filed July 17, 1921. Serial No. 484,496. Term of patent 14 years.



The ornamental design for a combination ladle and strainer, as shown.

60,110. [WITHDRAWN.]

60,111. ROCKING-DUCK NURSERY TOY. HAROLD P. SIGWALT, Milwaukee, Wis. Filed June 22, 1921. Serial No. 479,662. Term of patent 3½ years.



The ornamental design for a rocking duck nursery toy as shown.

60,112. OIL-GUN RESERVOIR. BERNARD H. SKELLY, Bridgeport, Conn. Filed Dec. 22, 1920. Serial No. 432,620. Term of patent 14 years.

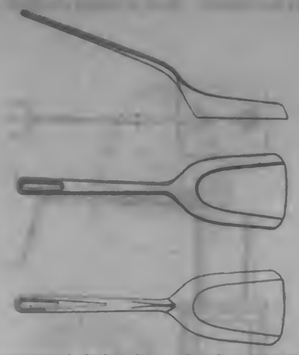


The ornamental design for an oil gun reservoir, as shown.

60,113. [WITHDRAWN.]

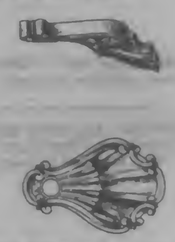
60,114. [WITHDRAWN.]

60,115. SHOVEL. FRANK A. FRENTZEL, Millburn, N. J. Filed Mar. 2, 1921. Serial No. 450,491. Term of patent 14 years.



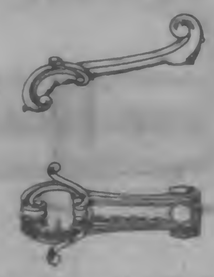
The ornamental design for a shovel, substantially as shown.

60,116. ARM FOR A LIGHTING-FIXTURE. GOTTFRIED WESTPHAL, Lakewood, N. J., assignor to McPhilben Lighting Fixture Company, New York, N. Y., a Corporation of New York. Filed Jan. 5, 1921. Serial No. 435,273. Term of patent 7 years.



The ornamental design for an arm for a lighting fixture, substantially as shown.

60,117. ARM FOR A LIGHTING-FIXTURE. GOTTFRIED WESTPHAL, Lakewood, N. J., assignor to McPhilben Lighting Fixture Company, New York, N. Y., a Corporation of New York. Filed Jan. 5, 1921. Serial No. 435,274. Term of patent 7 years.



The ornamental design for an arm for a lighting fixture, substantially as shown.

60,118. ARM FOR A LIGHTING-FIXTURE. GOTTFRIED WESTPHAL, Lakewood, N. J., assignor to McPhilben Lighting Fixture Company, New York, N. Y., a Corporation of New York. Filed Jan. 5, 1921. Serial No. 435,275. Term of patent 7 years.



The ornamental design for an arm for a lighting fixture, substantially as shown.

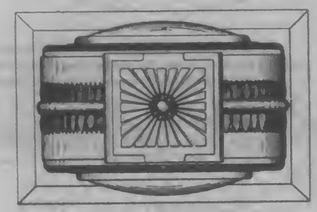
60,119. BASKET. LEW YEN, San Francisco, Calif. Filed Oct. 16, 1920. Serial No. 417,495. Term of patent 7 years.



The ornamental design for a basket, as shown.

60,120. VENDING-MACHINE CASING. FELIX Q. RAST, New York, N. Y. Filed Aug. 4, 1919. Serial No. 315,328. Term of patent 3½ years.





The ornamental design for a vending machine casing, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, DECEMBER 27, 1921.

[PUBLISHED DECEMBER 30, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 112,810. (CLASS 37. PAPER AND STATIONERY.) BOSTON LAST CO., Boston, Mass. Filed Aug. 21, 1918.

FLEXOR

Particular description of goods.—Embossing-Leaf—Namely, a Coated Paper Used in Printing and Embossing.
Claims use since December, 1917.

Ser. No. 114,983. (CLASS 37. PAPER AND STATIONERY.) WHITING PAPER COMPANY, Holyoke, Mass. Filed Jan. 3, 1919.

OVERLAND

Consists of the word "Overland."
Particular description of goods.—Writing-Paper and Mailing-Envelops.
Claims use since Jan. 1, 1896.

Ser. No. 126,630. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) LEECH TIRE PATCH COMPANY, Cincinnati, Ohio. Filed Dec. 30, 1919.

Sticks Like Leech



The picture of the young woman being fanciful.
Particular description of goods.—Automobile-Tire Patches.
Claims use since July 1, 1919.

Ser. No. 127,871. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) LORENA W. ROBINSON, Dallas, Tex. Filed Feb. 2, 1920.

MONARCH

Drawing is lined to indicate red.
Particular description of goods.—Truck-Bodies.
Claims use since about December, 1918.

Ser. No. 128,720. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) YARD-O-METER CORPORATION, St. Louis, Mo. Filed Feb. 20, 1920.

Yard-O-Meter

Particular description of goods.—Devices for Computing and Measuring Fabrics.
Claims use since Feb. 2, 1920.

Ser. No. 131,517. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BOSTON FOOD PRODUCTS CO., East Boston, Mass. Filed Apr. 23, 1920.

PRUDENCE

Particular description of goods.—Canned or Packaged Foods or Food Products—Namely, Corned Beef, Corned-Beef Hash, Soup and Bouilli, Brown Bread, Canned Beans, Codfish Balls, Sausage, Peas, Beef and Pork, Mutton in Cabbage, Roast Beef, Sliced Dried Beef, and Chicken.
Claims use since Apr. 9, 1920.

Ser. No. 133,610. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CHEMICAL LABORATORIES, INC., New York, N. Y. Filed June 12, 1920.

NUGLO

Particular description of goods.—Metal-Polishing Material in Paste, Powder, or Cake Form.
Claims use since about June 5, 1920.

Ser. No. 134,198. (CLASS 32. FURNITURE AND UPHOLSTERY.) INTERNATIONAL BEDDING CO. INC., Baltimore, Md. Filed June 25, 1920.

GEM

Particular description of goods.—Felt Mattresses.
Claims use since Jan. 1, 1918.

Ser. No. 134,199. (CLASS 32. FURNITURE AND UPHOLSTERY.) INTERNATIONAL BEDDING CO. INC., Baltimore, Md. Filed June 25, 1920.

ELITE

Particular description of goods.—Felt Mattresses.
Claims use since Jan. 1, 1918.

Ser. No. 134,525. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE ROBINSON-ROGERS CO., INC., Newark, N. J. Filed July 2, 1920.

"RESTWEL"

FOR THE "REST" OF YOUR LIFE

No claim being made to the expression "For the Rest of Your Life" apart from the mark shown in the drawing.
Particular description of goods.—Bedding—Namely, Mattresses, Pillows, Bolsters, and Cushions—and Bedsteads, Upholstery, Springs, and Bed-Springs.
Claims use since June 1, 1904.

Ser. No. 135,164. (CLASS 12. CONSTRUCTION MATERIALS.) THE ASHLEY RAILWAY SAFETY TIE AND CONSTRUCTION CORPORATION, New York, N. Y. Filed July 19, 1920.



Particular description of goods.—Reinforced Concrete Ties for Railways.
Claims use since Oct. 1, 1916.

Ser. No. 135,562. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) HADFIELDS LIMITED, Sheffield, England. Filed Aug. 19, 1920.

GALAHAD

Particular description of goods.—Fire-Fenders, Furnace-Bars.
Claims use since Feb. 22, 1918.

Ser. No. 136,481. (CLASS 17. TOBACCO PRODUCTS.) PAN-AMERICAN CIGAR MANUFACTURING CO., Dover, Del., and Washington, D. C. Filed Aug. 25, 1920.



No claim being made to the words "The" and "Cigar" and to the pictorial representation of a cigar apart from the mark shown in the drawing.
Particular description of goods.—Cigars.
Claims use since Aug. 10, 1920.

Ser. No. 138,079½. (CLASS 7. CORDAGE.) HENRY C. KELLEY COMPANY, New York, N. Y. Filed Oct. 7, 1920.

VIKING

Particular description of goods.—Cords, Twine, Ropes, and Lines of Fiber Materials Made from Cotton, Hemp, Manila, Sisal, or Jute, Said Lines Being of the Nature of Clothes-lines.
Claims use since 1919.

Ser. No. 138,098. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE FRASER TABLET COMPANY, Brooklyn, N. Y. Filed Oct. 8, 1920.



The label being white and the trade-mark outlined by a blue background. Exclusive right to the use of the word "Nurser" apart from the mark shown is hereby disclaimed.
Particular description of goods.—Nursers—Being a Combined Receptacle and Nipple Attached Thereto.
Claims use since Jan. 2, 1920.

Ser. No. 138,738. (CLASS 27. HOROLOGICAL INSTRUMENTS.) JOHN B. WOOD, Irvington, N. J., assignor to New Process Multi-castings Company, Newark, N. J., a Corporation of New Jersey. Filed Oct. 23, 1920.

COSMO

Particular description of goods.—Refrigerators.
Claims use since Mar. 15, 1920.

Ser. No. 138,898. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) CURTISS AEROPLANE AND MOTOR CORPORATION, Buffalo and Garden City, N. Y. Filed Oct. 28, 1920.

SEA GULL

Particular description of goods.—Airplanes.
Claims use since January, 1919.

Ser. No. 139,570. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) KATHERINE FISHER, Chicago, Ill. Filed Nov. 12, 1920.

PLEASE AND THANK-YOU

Particular description of goods.—Dolls.
Claims use since Oct. 27, 1920.

Ser. No. 139,882. (CLASS 25. LOCKS AND SAFES.) EAGLE LOCK CO., Terryville, Conn. Filed Nov. 20, 1920.

EAGLE

Particular description of goods.—Padlocks.
Claims use since July 22, 1916.

Ser. No. 139,883. (CLASS 25. LOCKS AND SAFES.) EAGLE LOCK CO., Terryville, Conn. Filed Nov. 20, 1920.

EAGLE

Particular description of goods.—Padlocks.
Claims use since Apr. 29, 1912.

Ser. No. 139,900. (CLASS 15. OILS AND GREASES.) NOCO PETROLEUM COMPANY, New York, N. Y. Filed Nov. 20, 1920.



Particular description of goods.—Crude Oil or Petroleum.
Claims use since November, 1919.

Ser. No. 139,901. (CLASS 15. OILS AND GREASES.) NOCO PETROLEUM COMPANY, New York, N. Y. Filed Nov. 20, 1920.



Particular description of goods.—Kerosene, Gasolene, Naphthalene, and Benzin.
Claims use since November, 1919.

Ser. No. 140,630. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) Dr. Tachnische Bedarfsartikel, G. m. b. H., Querfurt, Prussia, Germany. Filed Nov. 30, 1920.



No claim is made to the word "Querfurt" apart from the other features of the mark.

Particular description of goods.—Sweet Turnip and Beet Seed.

Claims use since Aug. 25, 1896.

Ser. No. 140,652. (CLASS 27. HOROLOGICAL INSTRUMENTS.) ILLINOIS WATCH CASE COMPANY, Elgin, Ill. Filed Dec. 6, 1920.

Trans Pacific

Particular description of goods.—Watch-Movements.

Claims use since March, 1915.

Ser. No. 140,875. (CLASS 24. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) JOHN DUNN, SON & CO., New York, N. Y. Filed Dec. 10, 1920.

GUANACO

Consists of the word "Guanaco."

Particular description of goods.—Gas and Oil Water-Heaters, Gas and Oil Lanterns, Coal and Wood Stoves, and Gas and Oil Radiators.

Claims use since January, 1879.

Ser. No. 141,139. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) TRAYLOR ENGINEERING & MANUFACTURING COMPANY, Allentown, Pa. Filed Dec. 15, 1920.

TRAYLOR

The lining of the drawing is for shading only. It is not intended to indicate a particular color.

Particular description of goods.—Motor-Trucks and Trailers.

Claims use since Oct. 22, 1920.

Ser. No. 141,193. (CLASS 35. BELTING, HOSE, MECHANICAL PACKING, AND NONMETALLIC TIRES.) UNITED STATES RUBBER CORPORATION, N. Y. Filed Dec. 16, 1920.

HONKONK PRODUCTS

No exclusive claim being made to the word "Products" apart from the mark shown.

Particular description of goods.—Sheet-Rubber Patches.

Claims use since Nov. 1, 1920.

Ser. No. 141,493. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) HINCHER MANUFACTURING COMPANY OF INDIANA, Washington, Ind. Filed Dec. 24, 1920.

Goodform

Particular description of goods.—Trousers, Skirt, Coat, Gown, and Suit Hangers, Singly and in Combination.

Claims use since Aug. 15, 1914.

Ser. No. 141,795. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) THE NOVELTY PRODUCTS COMPANY, Berkeley, Calif. Filed Jan. 3, 1921.

DOUBLENDER

Particular description of goods.—Wooden Clothespins.

Claims use since Dec. 1, 1920.

Ser. No. 142,207. (CLASS 15. OILS AND GREASES.) THE EMERY CANDLE COMPANY, Cincinnati, Ohio. Filed Jan. 13, 1921. Under ten-year proviso.

EMERY'S EXTRA
ELAINE
THE EMERY CANDLE CO.
CINCINNATI O.

Claim being made only to the word "Elaine" apart from the mark as shown.

Particular description of goods.—Lubricating Oils Made from Animal Fats.

Claims use since about Dec. 10, 1868.

Ser. No. 142,748. (CLASS 24. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) CHASTERN, INC., New York, N. Y. Filed Jan. 25, 1921.

CHASTERN

Particular description of goods.—Pyrophoric Igniters.

Claims use since Dec. 1, 1919.

Ser. No. 143,089. (CLASS 31. FILTERS AND REFRIGERATORS.) BUFFALO FORGE COMPANY, Buffalo, N. Y. Filed Feb. 2, 1921. Under ten-year proviso.

BUFFALO

Particular description of goods.—Air and Gas Filters, Liquid-Filters, and Filter-Presses.

Claims use since 1888.

Ser. No. 143,128. (CLASS 38. PRINTS AND PUBLICATIONS.) HALLIWELL & PATTON PUBLISHING CO., INC., Chicago, Ill. Filed Feb. 3, 1921.

AGRIMOTOR

THE NATIONAL TRADE AUTHORITY ON FARM TRACTORS

The words "The National Trade Authority on Farm Tractors" are disclaimed apart from the mark shown.

Particular description of goods.—A Periodic Publication.

Claims use since March, 1917.

Ser. No. 143,225. (CLASS 17. TOBACCO PRODUCTS.) SAN TELMO CIGAR MANUFACTURING COMPANY, Detroit, Mich. Filed Feb. 5, 1921.

JOAN OF ARC

Particular description of goods.—Cigars.

Claims use since 1894.

Ser. No. 143,412. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE SANITARY PRODUCTS CORPORATION OF AMERICA, Philadelphia, Pa. Filed Feb. 10, 1921.

Sanico

Particular description of goods.—Paper Luncheon Sets.

Claims use since Dec. 22, 1920.

Ser. No. 143,906. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ATLANTA BARBERS' SUPPLY CO., Atlanta, Ga. Filed Feb. 23, 1921.

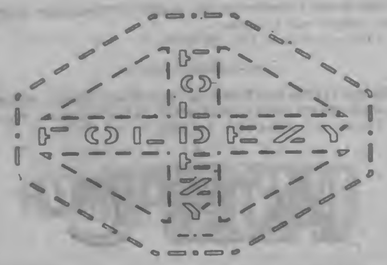
ABESCO
EAUDE QUININE HAIR TONIC
Atlantic Barbers Supply Co
Atlanta U S A

All wording appearing on the drawing with the exception of the words "Abesco" and "Atlantic Barbers Supply Co." is disclaimed apart from the mark as shown on the drawing.

Particular description of goods.—Hair-Tonic.

Claims use since July 1, 1911.

Ser. No. 144,133. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) THE DEARBORN COMPANY, Chicago, Ill. Filed Feb. 28, 1921.



Particular description of goods.—Ironing-Boards.

Claims use since on or about Dec. 20, 1920.

Ser. No. 144,042. (CLASS 17. TOBACCO PRODUCTS.) FLORA W. PINKUS, New York, N. Y. Filed Mar. 9, 1921.



Being lined for colors representing the fundamental colors of the rainbow.

Particular description of goods.—Cigarettes.

Claims use since May, 1919.

Ser. No. 144,621. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE INTERLOCK HARDWARE COMPANY, INC., New Haven, Conn. Filed Mar. 11, 1921.



Particular description of goods.—Automobile Luggage Carriers and Automobile Tire-Carriers.

Claims use since about December, 1919.

Ser. No. 144,641. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Rimo & Chessmore, Jersey City, N. J. Filed Mar. 11, 1921. Under ten-year proviso.

LACTO-PREPARATA.

Particular description of goods.—A Prepared Food for Infants and Invalids.

Claims use since Feb. 12, 1889.

Ser. No. 144,659. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) ALTORFER BROS. COMPANY, East Peoria, Ill. Filed Mar. 12, 1921.

ABC

Particular description of goods.—Ironing-Machines.

Claims use since on or about Nov. 1, 1920.

Ser. No. 144,847. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CAMPBELL BAKING COMPANY, Kansas City, Mo. Filed Mar. 17, 1921.



No exclusive right to the use of the word "Cake" apart from the other features of the mark is claimed.

Particular description of goods.—Cake.

Claims use since spring of 1915.

Ser. No. 144,858. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE GENERAL TIRE AND RUBBER COMPANY, Akron, Ohio. Filed Mar. 17, 1921.

ALL-in-ONE

Particular description of goods.—Tire-Retreads of Rubber and Fabric in the Piece.

Claims use since February, 1921.

Ser. No. 144,947. (CLASS 7. CORDAGE.) THE UPSON-WALTON COMPANY OF NEW YORK, New York, N. Y. Filed Mar. 18, 1921.



The words "Patent Drillers" are disclaimed apart from the mark shown on the drawing.

Particular description of goods.—Wire-Rope Cables Used in Well-Drilling.

Claims use since Jan. 15, 1921.

Ser. No. 145,062. (CLASS 17. TOBACCO PRODUCTS.) MAURICE ROSENTHAL, San Francisco, Calif. Filed Mar. 22, 1921.

Don Maurice

Particular description of goods.—Cigars.

Claims use since Nov. 15, 1920.

Ser. No. 145,130. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio. Filed Mar. 23, 1921.



Is colored blue, gray, and red, as indicated by the lining on the drawing.

Particular description of goods.—Paints in Liquid, Semi-paste, and Paste Forms.

Claims use since July, 1920.

Ser. No. 145,265. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) HAYNES-LANGENBERG MANUFACTURING CO., St. Louis, Mo. Filed Mar. 26, 1921.

RAINBOW

The word "Rainbow."

Particular description of goods.—Coal and Wood Heating and Cooking Stoves, Coal and Wood Ranges, and Heating-Furnaces.

Claims use since Jan. 1, 1921.

Ser. No. 145,279. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MORRIS MASHKES, Baltimore, Md. Filed Mar. 26, 1921.

McASKIN

Particular description of goods.—Cough-Balsam, Hair-Stain for Restoring Color to Gray and Faded Hair, and Blood Remedy.

Claims use since Jan. 1, 1921.

Ser. No. 145,409. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) DIEBOLD B. NIMO, St. Louis, Mo. Filed Mar. 29, 1921.



Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverage Sold as a Soft Drink.

Claims use since Dec. 21, 1920.

Ser. No. 145,458. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE INTERCHANGEABLE WALL CASE CO., Detroit, Mich. Filed Mar. 28, 1921.

INTERCHANGEABLE
STORE-UNITS

No claim being made to the words "Interchangeable Store Units" apart from the other features of the mark.

Particular description of goods.—Store Wall-Cases, Showcases, and Interchangeable Shelving.

Claims use since Feb. 20, 1920.

Ser. No. 145,500. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) THE DOVER MANUFACTURING COMPANY, Dover, Ohio. Filed Mar. 31, 1921. Under ten-year proviso.

ASBESTOS

Particular description of goods.—Stove-Heated Sad-irons.

Claims use since Oct. 1, 1894.

Ser. No. 145,784. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) HOE CORPORATION, Poughkeepsie, N. Y. Filed Apr. 6, 1921.

ALMOARES BOARD

Particular description of goods.—Folding Pressing-Boards.

Claims use since on or about July 24, 1919.

Ser. No. 146,224. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE MARATHON TIRE & RUBBER COMPANY, Cuyahoga Falls, Ohio. Filed Apr. 16, 1921.

MARATHON

Particular description of goods.—Belt Buckles Not of Precious Metals.
Claims use since July 1, 1917.

Ser. No. 146,553. (CLASS 17. TOBACCO PRODUCTS.) LEO A. HELBACK, Portland, Oreg. Filed Apr. 22, 1921.



The picture of a woman being fanciful and not the portrait of a living person.
Particular description of goods.—Cigars.
Claims use since on or about Apr. 1, 1920.

Ser. No. 146,729. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NALGEN CHEMICAL COMPANY, Seattle, Wash. Filed Apr. 25, 1921.

NALGEN

Particular description of goods.—A Medicinal Preparation for the Treatment of Rheumatism, Sciatica, Neuritis, Lumbago, Gout, and Kindred Diseases.
Claims use since Mar. 1, 1921.

Ser. No. 146,756. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CLAYTON-WRIGHT, LTD., Birmingham, England. Filed Apr. 26, 1921.

CLAYRITE

Particular description of goods.—Electric Horns, Electrically-Operated Warning-Bells for Vehicles, and an Electric-Lighting System for Motor-Vehicles.
Claims use since June 7, 1919.

Ser. No. 146,828. (CLASS 23. LOCKS AND SAFES.) C. M. GRAY MFG. CO., East Orange, N. J. Filed Apr. 27, 1921.

REMOH

Particular description of goods.—Automobile Locks.
Claims use since Feb. 1, 1921.

Ser. No. 146,871. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CROWN SUPPLY COMPANY, INC., New York, N. Y. Filed Apr. 28, 1921.

VITAL ROOT

Particular description of goods.—Hair-Tonic and Dandruff Remedies, Both in Liquid and Salve Form.
Claims use since September, 1915.

Ser. No. 146,940. (CLASS 31. FILTERS AND REFRIGERATORS.) HENRY VOGT MACHINE CO., INCORPORATED, Louisville, Ky. Filed Apr. 28, 1921. Under ten-year proviso.

Vogt

Particular description of goods.—Ice-Making and Refrigerating Machines.
Claims use since Jan. 7, 1905.

Ser. No. 146,941. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VELROSE MANUFACTURING COMPANY, Andover, N. Y. Filed Apr. 28, 1921.

VELROSE

Particular description of goods.—Toilet Preparations, and More Particularly a Face-Lotion.
Claims use since Mar. 6, 1921.

Ser. No. 146,943. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) WINCROFT STOVE WORKS, Middletown, Pa. Filed Apr. 28, 1921.



Particular description of goods.—Gas and Coal Stoves.
Claims use since Jan. 2, 1921.

Ser. No. 147,841. (CLASS 37. PAPER AND STATIONERY.) THE DIAMOND PRESS, New York, N. Y. Filed May 7, 1921.

THE DIAMOND PRESS

Particular description of goods.—Exclusively for Printed Paper Stationery—Namely, Letter and Bill Heads and Writing Paper.
Claims use since 1914.

Ser. No. 147,537. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) NOBLE C. TOOPS, Chicago, Ill. Filed May 10, 1921.

"BULL GRIP"

No claim is made to the illustration of a shaving brush apart from the mark shown in the drawing.
Particular description of goods.—Shaving-Brushes.
Claims use since Apr. 15, 1921.

Ser. No. 147,606. (CLASS 37. PAPER AND STATIONERY.) DUNN PEN COMPANY, INC., New York, N. Y. Filed May 12, 1921.

Baby Camel

Particular description of goods.—Fountain-Pens.
Claims use since Mar. 21, 1921.

Ser. No. 147,667. (CLASS 17. TOBACCO PRODUCTS.) BERNARD SCHWARTZ & SONS, Detroit, Mich. Filed May 13, 1921.



Referring to the drawing, the signature of R. G. Dun is a facsimile of the handwriting of R. G. Dun, and the picture is a portrait of R. G. Dun, who is deceased. The drawing is lined for color, in that the vertical lines of the lettering "R. G. Dun" represent red and the horizontal lines of the background represent blue, the remaining lines being for shading purposes only.
Particular description of goods.—Cigars.
Claims use since Mar. 7, 1911.

Ser. No. 147,741. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) J. M. SHERWOOD MANUFACTURING CORPORATION, New York, N. Y. Filed May 14, 1921.

"FRICTION-TANGLE"

Particular description of goods.—Mops Designed to be Used for Culinary and other Household Purposes.
Claims use since Feb. 15, 1916.

Ser. No. 148,193. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN EXTRACT & COMMERCE COMPANY, San Francisco, Calif. Filed May 24, 1921.

EL CISNE DE ORO



Particular description of goods.—Wheat Flour.
Claims use since June 29, 1912.

Ser. No. 148,218. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) DETROIT WHITE LEAD WORKS, Detroit, Mich. Filed May 25, 1921.

ROGERS
THE MARK OF QUALITY

No claim being made to the exclusive use of the words "The Mark of Quality" apart from the mark as shown.
Particular description of goods.—Soaps, (Including Soft Soap, Grit Soap, Auto-Soap, Liquid Soap, Linseed-Oil Soap;) Metal-Polish, Leather-Dressing, Auto-Top Dressing, Harness-Dressing, and Shoe-Polish.
Claims use since Mar. 1, 1920.

Ser. No. 148,221. (CLASS 31. FILTERS AND REFRIGERATORS.) MCKEE REFRIGERATOR COMPANY, Brooklyn, N. Y. Filed May 25, 1921.

Magicold

Particular description of goods.—Refrigerators.
Claims use since the middle of July, 1920.

Ser. No. 148,226. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ANTHONY DISSMAN, Chicago, Ill. Filed May 26, 1921.

UNIVERSAL

Particular description of goods.—A Semisolid Dressing for Leather.
Claims use since October, 1918.

Ser. No. 148,294. (CLASS 34. FURNITURE AND UPHOLSTERY.) CHAS. L. NORDSTROM, Jamestown, N. Y. Filed May 28, 1921.

VALETNIER

Particular description of goods.—Furniture—Namely, Combination Desks and Dressing-Cases.
Claims use since Nov. 15, 1920.

Ser. No. 148,315. (CLASS 39. CLOTHING.) SCHUMAN-HOLLIS CO., Auburn, Me. Filed May 27, 1921.

CUSHCO

Particular description of goods.—Rubber Soles Attached to Boots and Shoes with Canvas Uppers and to Boots and Shoes Having a Combination of Canvas Uppers with Leather Trimmings.
Claims use since 1916.

Ser. No. 148,230. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WALTER C. GRIFFIN, Salt Lake City, Utah. Filed May 27, 1921.

GRIFFIN'S
BOTH WAY

Particular description of goods.—Cleaning Compound in Powdered Form for Cleaning Varnished, Painted, and Unpainted Metal, Wood, and Papered Surfaces.
Claims use since Apr. 5, 1915.

Ser. No. 148,327. (CLASS 17. TOBACCO PRODUCTS.) GENERAL CIGAR CO., Inc., New York, N. Y. Filed May 27, 1921.

DYCKETTS

Particular description of goods.—Cigars.
Claims use since Mar. 15, 1921.

Ser. No. 148,441. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) HARRY JAFFE, Fitchburg, Mass. Filed May 31, 1921.

Tonicola
THE HEALTH DRINK

The expression "The Health Drink" is disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverage Sold as a Soft Drink and Syrup for Making the Same.
Claims use since May, 1915.

Ser. No. 148,461. (CLASS 31. FILTERS AND REFRIGERATORS.) THEO. C. SCHMIDT COMPANY, Cincinnati, Ohio. Filed May 31, 1921.

THE HOME OF
THESCO
PRODUCTS

Particular description of goods.—Filters and Refrigerators.
Claims use since July 16, 1920.

Ser. No. 148,566. (CLASS 37. PAPER AND STATIONERY.) TRINITY BAG & PAPER CO. INC., New York, N. Y. Filed June 2, 1921.

TWILIGHT
Parchment

The right to the use of the word "Parchment" is disclaimed apart from the mark as shown in the drawing.
Particular description of goods.—Paper for Wrapping Purposes.
Claims use since June, 1918.

Ser. No. 148,602. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) JOHN OLIVER JOHNSON, Chicago, Ill. Filed June 3, 1921.

RAINBOW

Consisting of the word "Rainbow."
Particular description of goods.—Bird-Gravel.
Claims use since about Jan. 4, 1920.

Ser. No. 148,947. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) NORTHWAY MOTORS CORPORATION, Natick, Mass. Filed June 10, 1921.

Northway

Particular description of goods.—Automobiles and Motor-Trucks.
Claims use since on or about February, 1918.

Ser. No. 149,085. (CLASS 31. FILTERS AND REFRIGERATORS.) STRUTHERS BROS., New York, N. Y. Filed June 11, 1921.

Homaid

Particular description of goods.—Ice-Cream Freezers.
Claims use since about Jan. 1, 1921.

Ser. No. 149,054. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) G. W. DEWY COMPANY, Milton, Mass. Filed June 13, 1921.

THE BLUE HILL

The words "The Blue Hill."
Particular description of goods.—Cookies, Crackers, Cakes, and Biscuit.
Claims use since Apr. 21, 1921.

Ser. No. 149,134. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE R. M. HOLLINGSHEAD CO., Camden, N. J. Filed June 14, 1921.

Whiz

Particular description of goods.—Metal Polish, Nickel-Polish, Reflector-Polish, Silver-Polish, Stove-Polish, Oil Soap, Roadside Hand-Cleaner, Neat's-Foot Oil, Valve-Grinding Compound, Auto-Cushion Dressing, Auto-Top Dressing, Mohair-Top Dressing, and Glass-Cleaning Paste.
Claims use since about Apr. 1, 1920.

Ser. No. 149,219. (CLASS 17. TOBACCO PRODUCTS.) THE FAIR, Chicago, Ill. Filed June 16, 1921.

PIERCE ARROW

The parallel lines extending across the body of the drawing being intended only to represent shading.
Particular description of goods.—Cigars.
Claims use since on or about June 1, 1917.

Ser. No. 149,429. (CLASS 39. CLOTHING.) BARCLAY SOMERS COMPANY, Lynn, Mass. Filed June 21, 1921.

Mac Gibbon

Particular description of goods.—Ladies' Leather Boots, Shoes, and Slippers.
Claims use since June 1, 1921.

Ser. No. 149,544. (CLASS 39. CLOTHING.) GOTHAM SHOE MFG. CO., Inc., Binghamton, N. Y. Filed June 23, 1921.

LITTLE PIRATE

SHOE

No specific claim being made to the word "Shoe."
Particular description of goods.—Leather Shoes.
Claims use since May, 1921.

Ser. No. 149,545. (CLASS 39. CLOTHING.) C. S. GIBSON CO., Philadelphia, Pa. Filed June 23, 1921.

PHILADELPHIA MAID SHOES

The figure is purely fanciful. No claim is made for the words "Philadelphia" and "Shoes" apart from the rest of the mark shown.
Particular description of goods.—Women's Leather and Combination Shoes.
Claims use since about 1907.

Ser. No. 149,626. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE BALYEAT MFG. CO., Mansfield, Ohio. Filed June 25, 1921.

DR. WETTMORE'S FELT MATTRESS
1/3 of your life is spent in Bed
Built Layer upon Layer

No claim is made to the words appearing on the drawing or the picture of the mattress apart from the mark shown.
Particular description of goods.—Mattresses.
Claims use since the 1st day of February, 1921.

Ser. No. 149,813. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OKLAHOMA CITY MILL AND ELEV. CO., Oklahoma, Okla. Filed June 29, 1921.

REY DE OROS

ALTA PATENTE
EXTRA

No claim being made to the words "Alta Patente, Extra" apart from the mark shown by the drawing.
Particular description of goods.—Wheat-Flour.
Claims use since June 17, 1921.

Ser. No. 149,925. (CLASS 39. CLOTHING.) NOVELTY SHOE COMPANY, Chicago, Ill. Filed July 1, 1921.

NOVELTY SHOE CO.

Particular description of goods.—Shoes Made of Leather, Rubber Fabric, and a Combination of the Same.
Claims use since 1916.

Ser. No. 149,936. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed July 1, 1921.

Biotose

Particular description of goods.—Malt Extract in Dry and Liquid Form.
Claims use since Jan. 27, 1900.

Ser. No. 150,071. (CLASS 17. TOBACCO PRODUCTS.) KRAUS & CO., INC., Baltimore, Md. Filed July 6, 1921.

FLOR DE MOSS

Particular description of goods.—Cigars.
Claims use since Mar. 6, 1907.

Ser. No. 150,126. (CLASS 31. FILTERS AND REFRIGERATORS.) AMERICAN TRIPOLI COMPANY, Seneca, Mo. Filed July 8, 1921.

Particular description of goods.—Filters and Filter-Stone Made of Tripoli.
Claims use since Jan. 1, 1921.

Ser. No. 150,214. (CLASS 20. MUSICAL INSTRUMENTS AND SUPPLIES.) SAPPHIRONOID STEEL NEEDLE CO. OF AMERICA, INC., New York, N. Y. Filed July 11, 1921.



Particular description of goods.—Talking Machine Needles.
Claims use since about Dec. 1, 1920.

Ser. No. 150,372. (CLASS 31. FILTERS AND REFRIGERATORS.) RESOLUTE MANUFACTURING COMPANY, Chicago, Ill. Filed July 14, 1921.

REMCO

Particular description of goods.—Refrigerating Systems.
Claims use since on or about Nov. 1, 1920.

Ser. No. 150,705. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B. A. RAILTON COMPANY, Chicago, Ill. Filed July 20, 1921.

SUNNY

BAR

Particular description of goods.—Canned Vegetables—Namely, Asparagus, Tomatoes, Sweet Potatoes, Pork and Beans, Baked Beans, Red Kidney-Beans, Lima Beans, String-Beans, Refined Peas, Early June Peas, Sweet Corn, Small Beets, Succotash, Spinach, Pumpkin, Tomato Purée, Mushrooms, Wax-Beans, Succotash, Apple Sauce, Cepes, Pimentos; Preserved Vegetables; Canned Fruits—Namely, Sliced Peaches, Yellow Cling-Peaches, Hawaiian Pineapple, Grated Hawaiian Pineapple, Egg-Plums, Green-Gage Plums, Bartlett Pears, Royal Anne Cherries, Red Pitted Cherries, Apricots, Blueberries, Loganberries, Gooseberries, Red Raspberries, Black Raspberries, Strawberries, Apples, and Olives; Preserved Fruits—Namely, Apple, Peach, Strawberry, Quince, Blackberry, Pineapple, Raspberry, Damson Plum, Blueberry, Apricots, and Cherry; Bottled Fruit, Fruit Butters, Dried Fruits, Crushed Fruits; Fruit Jellies—Namely, Apple, Currant, and Grape; Fruit Marmalades; Molasses—Namely, Grocers, Barbadoes, and New Orleans; Mustard, Tomato Catsup, Chili Sauce, Vinegar, Cottonseed Salad-Oil, Salad-Dressing, Cooking-Oils, Sauce, Syrups for Food Purposes, Gelatin, Jelly-Powder, Relishes, Chow-Chow, Powdered Sugar, Cereals—Namely, Farinose, Bran, Oatmeal, Rolled Oats, Rice, Graham Flour, Entire-Wheat Flour, Rye-Flour, Buckwheat-Flour, Waffle-Flour, Pancake-Flour, Prepared, Cake-Flour, Macaroni, Spaghetti, Vermicelli, Noodles, Corn-Starch, Food-Flavoring Extracts, Essences, Spices, Allspice, Coffee, Tea, Chocolate, Cocoa, Chicory, Soups, Horse-Radish, Roasted Cocoa Oyster-Cocktail Sauce, Olive-Oil, Sweet and Mixed Pickles, Worcestershire Sauce, Mayonnaise Dressing, Peanut-Butter, Honey, Jelly-Powders, Ice-Cream Powders, Clam-Chowder, Cheese, Lard, Lard Compound, Oleomargarin, Cooking-Oil, Crackers, Biscuits, Cookies, Canned Meats, Canned Fish, Salt Fish.
Claims use since 1906.

Ser. No. 150,717. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) S. P. WRIGHT, Washington, D. C. Filed July 20, 1921.

Q~Q

Particular description of goods.—Ginger-Ale.
Claims use since Apr. 1, 1921.

Ser. No. 150,730. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) RALPH M. EISENBERG, New York, N. Y. Filed July 21, 1921.

AD' AID

Particular description of goods.—Electrotypes.
Claims use since Oct. 1, 1920.

Ser. No. 150,862. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IMPERIAL CHEMICAL MFG. CO., New York, N. Y. Filed July 23, 1921.



Particular description of goods.—Powdered Depilatories, Shampoos, Face-Creams, Liquid Coloring for Hair, and Lotions for Skin.
Claims use since Jan. 1, 1891.

Ser. No. 150,996. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MORRIS CRAPSEY, New York, N. Y. Filed July 27, 1921.



Lines on the drawing are for shading only. The representation of a powder puff is disclaimed.
Particular description of goods.—Powder-Puffs.
Claims use since March, 1921.

Ser. No. 151,094. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) PETER HENDERSON & CO., New York, N. Y. Filed July 27, 1921.



Comprising the picture of a fanciful person with a wheelbarrow full of vegetables.
Particular description of goods.—Agricultural and Horticultural Seeds.
Claims use since June 25, 1921.

Ser. No. 151,028. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WILLIAM H. WHITMORE, Cleveland, Ohio. Filed July 27, 1921.

POLISHEM



Particular description of goods.—A Liquid Preparation for Cleaning, Preserving, and Restoring the Luster to Varnished Surfaces, Such as Pianos, Furniture, Auto-Bodies, Floors, Bowling-Alleys, Oil Paintings, Leather, Linoleum, and Glass.
Claims use since about June 1, 1921.

Ser. No. 151,103. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) THE SCHOELLKOPF CO., Dallas, Tex. Filed July 29, 1921.



No claim is made to the use of the words "Trade Mark," "Brand," "Famous the World Over," "Manufactured by" and "Dallas, Texas, U. S. A.," apart from the mark shown by the drawing.
Particular description of goods.—Harness, Saddles, Bridles, Reins, or Lines, Horse-Collars, Hame-Tugs, Back-Bands, Traces, Halters, Horse-Blankets, Collar-Pads, and Saddlers' Hardware.
Claims use since about July 1, 1920.

Ser. No. 151,116. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, Cincinnati, Ohio. Filed July 29, 1921.



Particular description of goods.—Playing-Cards.
Claims use since about 1888.

Ser. No. 151,117. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, Cincinnati, Ohio. Filed July 29, 1921.



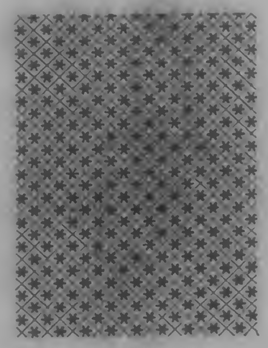
Particular description of goods.—Playing-Cards.
Claims use since about 1890.

Ser. No. 151,118. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, Cincinnati, Ohio. Filed July 29, 1921.



Particular description of goods.—Playing-Cards.
Claims use since about 1890.

Ser. No. 151,120. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, Cincinnati, Ohio. Filed July 29, 1921.



Particular description of goods.—Playing-Cards.
Claims use since about 1888.

Ser. No. 151,121. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, Cincinnati, Ohio. Filed July 29, 1921.



Particular description of goods.—Playing-Cards.
Claims use since about 1890.

Ser. No. 151,123. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, Cincinnati, Ohio. Filed July 29, 1921.



Particular description of goods.—Playing-Cards.
Claims use since about 1890.

Ser. No. 151,503. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) APEX ELECTRIC MFG. COMPANY, Chicago, Ill. Filed Aug. 6, 1921.



Particular description of goods.—Windshield-Cleaners.
Claims use since May 31, 1921.

Ser. No. 151,520. (CLASS 10. FERTILIZERS.) PATUXENT GUANO COMPANY, Baltimore, Md. Filed Aug. 6, 1921.

PATUXENT

Particular description of goods.—Fertilizers.
Claims use since June 20, 1921.

Ser. No. 151,530. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Filed Aug. 8, 1921.



The word "Brand" is disclaimed as a part of the trade-mark. The oval band appears in red.
Particular description of goods.—Dentifrice.
Claims use since June 3, 1921.

Ser. No. 151,531. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Filed Aug. 8, 1921.



Including the oval band in red.

Particular description of goods.—Cocoa, Sugar, Cereal Breakfast Food, Wheat-Flour, and Condensed Milk.

Claims use since Jan. 6, 1921.

Ser. No. 151,553. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MARSHALL OIL COMPANY OF IOWA, Marshalltown, Iowa. Filed Aug. 8, 1921.

MOCO

Particular description of goods.—Belt-Dressing.

Claims use since January, 1918.

Ser. No. 151,566. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) BEN A. TETZLAFF, Chicago, Ill. Filed Aug. 8, 1921.

NOC-OUT

Particular description of goods.—Line-Clamps.

Claims use since Feb. 8, 1921.

Ser. No. 151,656. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARTHUR W. COOK, Ocean Grove, N. J. Filed Aug. 11, 1921.

KUHLO

Particular description of goods.—A Preparation for the Relief of Sunburn.

Claims use since June 1, 1921.

Ser. No. 151,664. (CLASS 23. LOCKS AND SAFES.) DIAMOND SOFTENING HARDWARE COMPANY, Lancaster, Pa. Filed Aug. 11, 1921.



Particular description of goods.—Padlocks, Night-Locks, Cabinet-Locks, Bank-Locks, Door-Locks, Railroad-Car Locks, Keys and Parts Thereof, Strike-Plates, and Escutcheons.

Claims use since Feb. 7, 1911.

Ser. No. 151,680. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHAS. E. LIEBMAN CO. INC., New York, N. Y. Filed Aug. 11, 1921.



Particular description of goods.—External Body-Tonic for Use After Bathing and Shaving, for Massage and Rubbing, and for Various External Antiseptic, Tonic, and Preventive Uses.

Claims use since July 27, 1921.

Ser. No. 151,730. (CLASS 31. FILTERS AND REFRIGERATORS.) GEBRÜDER BÜHLER, Uzwil, Switzerland. Filed Aug. 16, 1921.



Particular description of goods.—Pressure and Suction Tube Filters.

Claims use since Oct. 21, 1919.

Ser. No. 151,923. (CLASS 5. ADHESIVES.) ADAM ORRS, Mechanicsburg, Pa. Filed Aug. 18, 1921.

Adam Orrs

Is the facsimile signature of the applicant.

Particular description of goods.—A Rubber Compound in the Nature of a Renewable Coating for Tires.

Claims use since Aug. 1, 1921.

Ser. No. 151,990. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CHARLES FRANKLIN JAMESON, Boston, Mass. Filed Aug. 20, 1921.



Particular description of goods.—A Chemically-Treated Cloth for Polishing Metals, Hard Rubber, and Glass.

Claims use since Apr. 21, 1920.

Ser. No. 152,200. (CLASS 17. TOBACCO PRODUCTS.) BAYUK BROS. INCORPORATED, Baltimore, Md., and Philadelphia, Pa. Filed Aug. 26, 1921.

CHARLES THOMSON

Comprising the name and a facsimile of the autograph signature of the secretary of the First Continental Congress.

Particular description of goods.—Cigars, Cigarettes, Chewing-Tobacco, and Smoking-Tobacco.

Claims use since Sept. 14, 1901.

Ser. No. 152,335. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALFRED LUCATI, New York, N. Y. Filed Aug. 29, 1921.



It is hereby disclaimed that the descriptive words "Peerless Disinfectant" and "Reg. U. S. Pat. Off." are a part of the mark shown in the drawing.

Particular description of goods.—Disinfectant.

Claims use since Aug. 1, 1920.

Ser. No. 152,360. (CLASS 38. PRINTS AND PUBLICATIONS.) AMERICAN AUTOMOBILE ASSOCIATION, Washington, D. C., and New York, N. Y. Filed Aug. 30, 1921.



Particular description of goods.—Printed Maps, Pamphlets Published from Time to Time and Printed Books Published Annually and Also from Time to Time.

Claims use since Jan. 11, 1910.

Ser. No. 152,361. (CLASS 38. PRINTS AND PUBLICATIONS.) AMERICAN AUTOMOBILE ASSOCIATION, Washington, D. C., and New York, N. Y. Filed Aug. 30, 1921.



The words "Washington, D. C." and "New York City" are disclaimed.

Particular description of goods.—Printed Maps, Pamphlets Published from Time to Time, and Printed Books Published Annually and Also from Time to Time.

Claims use since May, 1918.

Ser. No. 152,421. (CLASS 18. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) EAGLE LOCK CO., Terryville, Conn. Filed Aug. 31, 1921.



Particular description of goods.—Wood-Screws.

Claims use since Jan. 1, 1910.

Ser. No. 152,464. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) REGINALD M. CLEVELAND, New York, N. Y. Filed Sept. 1, 1921.

REXDEN-BELCARZA

Particular description of goods.—Thoroughbred Dogs.

Claims use since Feb. 10, 1920.

Ser. No. 152,491. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) WESTFIELD MANUFACTURING COMPANY, Westfield, Mass. Filed Sept. 1, 1921. Under ten-year proviso.

Columbia

Particular description of goods.—Bicycles and Parts Thereof.
Claims use since 1876.

Ser. No. 152,519. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE STANLEY WORKS, New Britain, Conn. Filed Sept. 2, 1921.

Z

Particular description of goods.—Butts.
Claims use since Mar. 19, 1915.

Ser. No. 152,539. (CLASS 2. RECEPTACLES.) JOHN CURRY, Fall River, Mass. Filed Sept. 3, 1921.

ace.

Particular description of goods.—Chocolate-Humidors.
Claims use since Aug. 9, 1921.

Ser. No. 152,622. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE HILL AND LACROSS COMPANY, Cranston, R. I. Filed Sept. 6, 1921.

THE HILAC BRAND

The word "Brand" is disclaimed except as used in connection with the other features of the mark shown in the drawing.
Particular description of goods.—Narrow Braids, Elastic Braids, and Shoe-Laces.
Claims use since Jan. 1, 1915.

Ser. No. 152,631. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) NATIONAL WASHBOARD COMPANY, Chicago, Ill., and Saginaw, Mich. Filed Sept. 6, 1921.

864

Particular description of goods.—Washboards.
Claims use since Jan. 1, 1914.

Ser. No. 152,632. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) NATIONAL WASHBOARD COMPANY, Chicago, Ill.; Saginaw, Mich., and Memphis, Tenn. Filed Sept. 6, 1921.

824

Particular description of goods.—Washboards.
Claims use since Jan. 1, 1916.

Ser. No. 152,633. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) NATIONAL WASHBOARD COMPANY, Chicago, Ill.; Saginaw, Mich., and Memphis, Tenn. Filed Sept. 6, 1921.

180

Particular description of goods.—Washboards.
Claims use since Apr. 1, 1921.

Ser. No. 152,635. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) NATIONAL WASHBOARD COMPANY, Chicago, Ill.; Saginaw, Mich., and Memphis, Tenn. Filed Sept. 6, 1921.

183

Particular description of goods.—Washboards.
Claims use since Mar. 1, 1921.

Ser. No. 152,636. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) NATIONAL WASHBOARD COMPANY, Chicago, Ill.; Saginaw, Mich., and Memphis, Tenn. Filed Sept. 6, 1921.

VIM

Particular description of goods.—Washboards.
Claims use since Mar. 1, 1921.

Ser. No. 152,637. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) NATIONAL WASHBOARD COMPANY, Chicago, Ill.; Saginaw, Mich., and Memphis, Tenn. Filed Sept. 6, 1921.

184

Particular description of goods.—Washboards.
Claims use since May 1, 1921.

Ser. No. 152,638. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) NATIONAL WASHBOARD COMPANY, Chicago, Ill.; Saginaw, Mich., and Memphis, Tenn. Filed Sept. 6, 1921.

818

Particular description of goods.—Washboards.
Claims use since Jan. 1, 1916.

Ser. No. 152,639. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) NATIONAL WASHBOARD COMPANY, Chicago, Ill.; Saginaw, Mich., and Memphis, Tenn. Filed Sept. 6, 1921.

182

Particular description of goods.—Washboards.
Claims use since Mar. 1, 1921.

Ser. No. 152,643. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) NATIONAL WASHBOARD COMPANY, Chicago, Ill.; Saginaw, Mich., and Memphis, Tenn. Filed Sept. 6, 1921.

185

Particular description of goods.—Washboards.
Claims use since Apr. 1, 1921.

Ser. No. 152,644. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) NATIONAL WASHBOARD COMPANY, Chicago, Ill.; Saginaw, Mich., and Memphis, Tenn. Filed Sept. 6, 1921.

181

Particular description of goods.—Washboards.
Claims use since Mar. 1, 1921.

Ser. No. 152,645. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) NATIONAL WASHBOARD COMPANY, Chicago, Ill.; Saginaw, Mich., and Memphis, Tenn. Filed Sept. 6, 1921.

LITTLE DARLING

Particular description of goods.—Washboards.
Claims use since Jan. 1, 1916.

Ser. No. 152,646. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) NATIONAL WASHBOARD COMPANY, Chicago, Ill.; Saginaw, Mich., and Memphis, Tenn. Filed Sept. 6, 1921.

822

Particular description of goods.—Washboards.
Claims use since Jan. 1, 1916.

Ser. No. 152,847. (CLASS 31. LAUNDRY APPLIANCES AND MACHINES.) National Washboard Company, Chicago, Ill.; Saginaw, Mich., and Memphis, Tenn. Filed Sept. 6, 1921.

167

Particular description of goods.—Washboards.
Claims use since Jan. 1, 1916.

Ser. No. 152,850. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) United Chemical Companies, Kansas City, Mo. Filed Sept. 6, 1921.

Clean-O-Flush

Particular description of goods.—Powdered Preparation for Use in Cleaning Toilet Bowls.
Claims use since Jan. 1, 1921.

Ser. No. 152,713. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) William H. Marzahl, Jersey City, N. J. Filed Sept. 8, 1921.

JAV

CONCENTRATED

TRADE MARK

Applicant disclaims the words "Trade-Mark" and "Concentrated" apart from the mark shown in the drawing.
Particular description of goods.—Laundry Bleaching and Disinfecting Fluid.
Claims use since Aug. 15, 1921.

Ser. No. 152,770. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) George C. Spencer, South Bend, Ind. Filed Sept. 9, 1921.

'SMELL THE STOPPER'

Particular description of goods.—Perfumes.
Claims use since Aug. 9, 1921.

Ser. No. 152,845. (CLASS 35. BELTING, HOSE, PACKING, AND NONMETALLIC TIRES.) Globe Leather Corporation, Kingsport, Tenn. Filed Sept. 12, 1921.

TRADE MARK
FULL-PULL
REGISTERED MADE IN U.S.A.

No claim being made to the exclusive use of the words "Trade Mark, Registered" and "Made in U. S. A." apart from the mark shown in the drawing.
Particular description of goods.—Leather Belting.
Claims use since June 20, 1921.

Ser. No. 152,846. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. W. Howard & Son, Louisville, Miss. Filed Sept. 12, 1921.

JOJOS

Particular description of goods.—Hair Dressing.
Claims use since Aug. 1, 1918.

Ser. No. 152,911. (CLASS 15. OILS AND GREASES.) The Continental Supply Company, St. Louis, Mo. Filed Sept. 14, 1921.

Y

Particular description of goods.—Engine Oil for Lubricating Purposes.
Claims use since July, 1921.

Ser. No. 152,942. (CLASS 39. CLOTHING.) Brooks & Co., Inc., Boston, Mass. Filed Sept. 15, 1921.

B & Co.
INC.

Particular description of goods.—Shoe Parts—Namely, Rubber Heels.
Claims use since Apr. 18, 1921.

Ser. No. 152,917. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) Ashen Manufacturing Company, Irvington, N. J. Filed Sept. 16, 1921.

M
CO

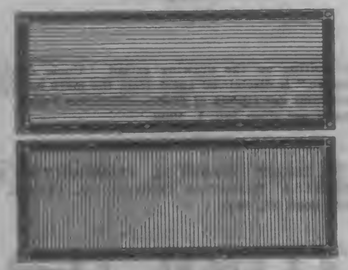
Particular description of goods.—Laundry Machinery, Including Flat-Work and Body-Clothes Ironers, Extractors, Washing-Machines, and Body-Presses.
Claims use since Aug. 22, 1921.

Ser. No. 152,989. (CLASS 39. CLOTHING.) The Duttenhofer-Stevens Co., Cincinnati, Ohio. Filed Sept. 16, 1921.

MASTER
"FUTKORSET"

Particular description of goods—Women's Low and High Shoes of Leather and Cloth.
Claims use since July 15, 1921.

Ser. No. 153,080. (CLASS 17. TOBACCO PRODUCTS.) Alfred Dunhill, London, England. Filed Sept. 19, 1921.



Consisting of the series of two labels, one having a maroon center with a border of blue diamonds on a yellow ground, and the other having a blue center with a border of maroon diamonds on a yellow ground.
Particular description of goods.—Tobacco, Manufactured or Unmanufactured; Cigars, and Cigarettes.
Claims use since September, 1920.

Ser. No. 153,160. (CLASS 39. CLOTHING.) United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Filed Sept 20, 1921.

ARAB

Particular description of goods.—Boots and Shoes Composed of Rubber and Fabric.
Claims use since Aug. 25, 1921.

Ser. No. 153,161. (CLASS 33. GLASSWARE.) Walter L. Johnson, Endicott, N. Y. Filed Sept. 21, 1921.

H

Particular description of goods.—Glass Milk-Bottles.
Claims use since Jan. 1, 1921.

Ser. No. 153,214. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) The Haffner Brothers Company, Cincinnati, Ohio. Filed Sept. 22, 1921.

PIONEER

Particular description of goods.—Harness-Leather and Sole-Leather.
Claims use since July, 1889.

Ser. No. 153,217. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) The Hagen-Becker Co., Minneapolis, Minn. Filed Sept. 22, 1921.

HOMA
WITH THE AROMA

No claim is made to the exclusive use of the words "With the Aroma" apart from the mark shown on the drawing.
Particular description of goods.—Malt Extract.
Claims use since Apr. 1, 1921.

Ser. No. 153,297. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) H. A. CASSEBEER, INC., New York, N. Y. Filed Sept. 26, 1921.

ERASOL

Particular description of goods.—A Cleansing Fluid for Silk, Wool, Cotton, and other Textile Fabrics.
Claims use since 1906.

Ser. No. 153,344. (CLASS 15. OILS AND GREASES.) ECONOMY OIL COMPANY, Chicago, Ill. Filed Sept. 26, 1921.

BANDCYL

The lining being for shading only.
Particular description of goods.—Lubricating Oils.
Claims use since January, 1921.

Ser. No. 153,353. (CLASS 23. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SAMUEL KERSTEN, Chicago, Ill. Filed Sept. 26, 1921.



Particular description of goods.—Faucets.
Claims use since Apr. 11, 1921.

Ser. No. 153,406. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) LEWIS G. PILGRIM, Detroit, Mich. Filed Sept. 27, 1921.

KEN-NITE

Particular description of goods.—Automobile and Furniture Polish.
Claims use since Aug. 10, 1921.

Ser. No. 153,423. (CLASS 19. GLASSWARE.) ROSSMAN T. WING, St. Cloud, Minn. Filed Sept. 27, 1921.



Particular description of goods.—Headlight-Lenses.
Claims use since Dec. 1, 1920.

Ser. No. 153,447. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CHARLES S. CASSILL, Gary, Ind. Filed Sept. 28, 1921.



All writing on the drawing except "Uncle Charlie's Glossmere" is disclaimed apart from the mark as shown.
Particular description of goods.—Furniture Polish.
Claims use since Jan. 1, 1908.

Ser. No. 153,462. (CLASS 12. CONSTRUCTION MATERIALS.) KLINE-TITE PRODUCTS CO., Chicago, Ill. Filed Sept. 28, 1921.

BLACK JACK

Particular description of goods.—Roof-Cement.
Claims use since June, 1920.

Ser. No. 153,518. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PAINE & NIXON CO., Duluth, Minn. Filed Sept. 29, 1921.



Applicant disclaims the words "Quality" and "Service" apart from the mark shown on the drawing.
Particular description of goods.—Dry, Ready-Mixed, and Paste Paints, Paint-Oils, Varnishes, Paint-Reducers, Stains, Fillers, and Putty.
Claims use since 1915.

Ser. No. 153,558. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) MARCUS, FORSCHER & Co., New York, N. Y. Filed Sept. 30, 1921.



Particular description of goods.—Sole-Leather, Upper-Leather, Hides, and Skins.
Claims use since July 1, 1921.

Ser. No. 153,572 (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SILUMITE PRODUCTS CORPORATION, Baltimore, Md., and Morton, Pa. Filed Sept. 30, 1921.

SILUMITE

Particular description of goods.—Paints in Ready-Mixed, Dry, or Paste Form.
Claims use since on or about Apr. 25, 1921.

Ser. No. 153,575. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) GEORGE D. WANNER, Dayton, Ohio. Filed Sept. 30, 1921.



No claim is made to the exclusive use of the illustration of a kite apart from the mark shown in the drawing.
Particular description of goods.—Kites.
Claims use since Nov. 1, 1919.

Ser. No. 153,655. (CLASS 12. CONSTRUCTION MATERIALS.) FEDERAL BRIDGE AND STRUCTURAL CO., Waukesha, Wis. Filed Oct. 3, 1921.

FEBRISCO

Particular description of goods.—Metal Window-Sashes.
Claims use since Aug. 24, 1921.

Ser. No. 153,709. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE CHARLES WILLIAM STORES INC., Brooklyn, N. Y. Filed Oct. 3, 1921.

All-in-One

Particular description of goods.—Kitchen-Cabinets.
Claims use since July 5, 1921.

Ser. No. 153,865. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) AUSTIN, NICHOLS & CO. INC., Richmond, Va. Filed Oct. 8, 1921.



Particular description of goods.—Automobile Tires and Tubes of Rubber and a Combination of Fabric and Rubber.
Claims use since Aug. 24, 1921.

Ser. No. 153,895. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) DIXIE DOLL MILLS CORPORATION, Chattanooga, Tenn. Filed Oct. 8, 1921.



The word "Doll" and the illustration of the dolls do not form a part of registration sought apart from the mark shown in the drawing.

Particular description of goods.—Stocking Dolls.
Claims use since Sept. 21, 1921.

Ser. No. 153,905. (CLASS 12. CONSTRUCTION MATERIALS.) WESTERN LUMBER & POLE COMPANY, Spokane, Wash. Filed Oct. 8, 1921.

PENTREX

Particular description of goods.—Cedar Telephone, Telegraph, and Transmission-Line Poles.
Claims use since Feb. 14, 1921.

Ser. No. 154,024. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) OSCAR ED. HABICHT, Baltimore, Md. Filed Oct. 12, 1921.

P. O. G.
POLISHEN O'GLOSS

Particular description of goods.—A Polish for Automobiles, Pianos, Furniture, Graphophones, and Hardwood Floors.
Claims use since Aug. 24, 1921.

Ser. No. 154,240. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CHARLES C. SPELLMAN, Atchison, Kans. Filed Oct. 17, 1921.

SHOE MOLDO

Particular description of goods.—Toy Molding Sets.
Claims use since Sept. 15, 1920.

Ser. No. 154,241. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) SPRINGFIELD ARMS CO., Springfield, Mo. Filed Oct. 17, 1921.

EX
WE DIVIDE THE PROFITS WITH YOU
EXCHANGE BRAND SEEDS FOR QUALITY

No claim being made to the exclusive use of the words "We Divide the Profits with You, Brand Seeds for Quality" apart from the mark shown.

Particular description of goods.—Farm-Seed—Namely, Clover, Timothy, Red Top, Alfalfa, Cane, Millet.
Claims use since about June 15, 1921.

Ser. No. 154,274. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) INNIS, SPEIDEN & CO., INC., New York, N. Y. Filed Oct. 18, 1921.

CHEMICALS

No claim is made to the use of the word "Chemicals" except in combination with the other elements of the trademark. The lines shown in the drawing indicate shading.

Particular description of goods.—Soap and Benzene Soap.
Claims use since Oct. 19, 1921.

Ser. No. 154,282. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) ORENSTEIN TRUNK COMPANY, Newark, N. J. Filed Oct. 18, 1921.



No claim is made to the reading matter on the drawing apart from the mark as shown.

Particular description of goods.—Trunks.
Claims use since about May 15, 1920.

Ser. No. 154,285. (CLASS 43. THREAD AND YARN.) A. H. RICE COMPANY, Pittsfield, Mass. Filed Oct. 18, 1921.

ARTEX

Particular description of goods.—Threads and Yarns of Silk and Artificial Silk.
Claims use since Oct. 3, 1921.

Ser. No. 154,296. (CLASS 15. OILS AND GREASES.) BARNSDALL REFINING COMPANY, Tulsa, Okla. Filed Oct. 19, 1921.

BARECO

Particular description of goods.—Lubricating-Oil.
Claims use since Mar. 1, 1921.

Ser. No. 154,438. (CLASS 15. OILS AND GREASES.) EASTERN OIL REFINING COMPANY, Buffalo, N. Y. Filed Oct. 22, 1921.

Speedway

Particular description of goods.—Gasolene and Fuel-Oils.
Claims use since about May 1, 1921.

Ser. No. 154,465. (CLASS 15. OILS AND GREASES.) THE TEXAS COMPANY, Houston, Tex., and New York, N. Y. Filed Oct. 22, 1921.

NADIR

Particular description of goods.—Cylinder-Oils.
Claims use since July 6, 1921, or thereabout.

Ser. No. 154,509. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JACK W. HESS, Clinton, Wis. Filed Oct. 24, 1921.



The drawing is lined to illustrate a red background. No claim is made to the word "Car" as is shown thereon.

Particular description of goods.—Toy Car.
Claims use since Sept. 1, 1921.

Ser. No. 154,602. (CLASS 2. RECEPTACLES.) ALEXANDER HESZ, New York, N. Y. Filed Oct. 26, 1921.



No claim being made to the words "Trade Mark," "Glassine," "Envelopes," and "New York" apart from the mark as shown.

Particular description of goods.—Merchandise-Envelops.
Claims use since Sept. 8, 1921.

Ser. No. 154,660. (CLASS 12. CONSTRUCTION MATERIALS.) Midwest Steel & Supply Company, Inc., New York, N. Y. Filed Oct. 20, 1921.

MIDWEST

Particular description of goods.—Stringers, Anchor-Rails, Metal Sections for Connecting Metal Stringers, Metal Sections for Connecting Metal Anchor-Rails, Beams, Laths of Wood, Metal, and Cementitious Materials, and Metal Timber-Joint Plates.
Claims use since Feb. 11, 1921

Ser. No. 154,611. (CLASS 31. FILTERS AND REFRIGERATORS.) Midwest Steel & Supply Company, Inc., New York, N. Y. Filed Oct. 26, 1921.

MIDWEST

Particular description of goods.—Filters and Parts Thereof.
Claims use since Feb. 11, 1921.

Ser. No. 154,795. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) The Foster Screen Co. Inc., Newark, N. J. Filed Oct. 31, 1921.

BUY US

Particular description of goods.—Window-Screens.
Claims use since Oct. 1, 1921.

Ser. No. 154,834. (CLASS 15. OILS AND GREASES.) The Ohio Grease Co., Loudonville, Ohio. Filed Nov. 1, 1921.

HI LO

Particular description of goods.—Lubricating Oils and Greases.
Claims use since July, 1918.

Ser. No. 154,886. (CLASS 15. OILS AND GREASES.) The Ohio Grease Co., Loudonville, Ohio. Filed Nov. 1, 1921.

CREAMOIL

Particular description of goods.—Lubricating Oils.
Claims use since September, 1919.

Ser. No. 154,900. (CLASS 15. OILS AND GREASES.) Nott Atwater Ltd., Spokane, Wash. Filed Nov. 2, 1921.

NACO

Particular description of goods.—Lubricating-Oils.
Claims use since May 1, 1919.

Ser. No. 155,033. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) Sail-Me Co., Evanston, Ill. Filed Nov. 4, 1921.

ZIP-HI

Particular description of goods.—Toy Airplanes.
Claims use since Apr. 1, 1921.

Ser. No. 155,055. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) Atlantic Stamping Company, Rochester, N. Y. Filed Nov. 5, 1921.

ATLANTIC

Particular description of goods.—Washtubs and Washboilers.
Claims use since about Mar. 1, 1904.

Ser. No. 155,085. (CLASS 5. ADHESIVES.) Bauer & Black, Chicago, Ill. Filed Nov. 7, 1921.

Tirro

Particular description of goods.—Adhesive Tape.
Claims use since on or about Jan. 31, 1921.

Ser. No. 155,262. (CLASS 15. OILS AND GREASES.) Joseph Hallian, Arlington, Mass. Filed Nov. 10, 1921.

BLACK DIAMOND

Particular description of goods.—Lubricating-Greases.
Claims use since Oct. 14, 1921.

Ser. No. 155,428. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) W. B. Bertels & Son Co., Wilkes-Barre, Pa. Filed Nov. 16, 1921.

BLACK DIAMOND

Particular description of goods.—Washboilers.
Claims use since 1895.

Ser. No. 155,527. (CLASS 2. RECEPTACLES.) Victor Manufacturing and Gasket Company, Chicago, Ill. Filed Nov. 17, 1921.

Gasketeer

Particular description of goods.—Receptacles for Gaskets.
Claims use since Sept. 28, 1921.



TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

DECEMBER 27, 1921.

149,810. NON-ALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND STRUPS FOR MAKING THE SAME. ACME BEVERAGE-EXTRACT Co., Chicago, Ill.
Filed April 29, 1921. Serial No. 146,945. PUBLISHED AUGUST 16, 1921.

149,811. BRICKS AND DRAINAGE TILES. ACME BRICK COMPANY, Fort Worth, Tex.
Filed May 9, 1921. Serial No. 147,392. PUBLISHED AUGUST 16, 1921.

149,812. MALT EXTRACT. ADAM SCHMIDT BREWING Co., Norristown, Pa.
Filed February 18, 1921. Serial No. 143,787. PUBLISHED SEPTEMBER 6, 1921.

149,813. FUR-SKINS. THE ALEXANDER WORKS, INC., Garden City, N. Y.
Filed April 23, 1921. Serial No. 146,617. PUBLISHED AUGUST 16, 1921.

149,814. INTERIOR-WALL GLAZING AND COLORING. ALINALL MFG. CO., Worcester, Mass.
Filed January 18, 1921. Serial No. 142,380. PUBLISHED AUGUST 16, 1921.

149,815. INTERIOR WARM-WATER OR OIL WALL-FINISH. ALINALL MFG. CO., Worcester, Mass.
Filed January 18, 1921. Serial No. 142,381. PUBLISHED SEPTEMBER 6, 1921.

149,816. FERTILIZERS. THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, New York, N. Y.
Filed January 20, 1921. Serial No. 142,481. PUBLISHED AUGUST 23, 1921.

149,817. CERTAIN NAMED CLOTHS AND FABRICS IN THE PIECE. THE AMERICAN CELLULOSE & CHEMICAL MANUFACTURING COMPANY, LIMITED, New York, N. Y., and Cumberland, Md.
Filed June 10, 1921. Serial No. 148,011. PUBLISHED AUGUST 30, 1921.

149,818. CHEWING-GUM. AMERICAN CHICLE COMPANY, New York, N. Y.
Filed May 7, 1921. Serial No. 147,330. PUBLISHED AUGUST 30, 1921.

149,819. LUBRICATING OILS AND GREASES. AMERICAN OIL CORPORATION, Jackson, Mich.
Filed July 19, 1921. Serial No. 150,585. PUBLISHED SEPTEMBER 20, 1921.

149,820. ROUND AND FLAT PAPER DRINKING-CUPS. THE AMERICAN PAPER GOODS Co., Kensington, Conn.
Filed February 21, 1921. Serial No. 143,848. PUBLISHED SEPTEMBER 20, 1921.

149,821. SPOOL-COTTON, SEWING-COTTON, THREAD, AND COTTON YARN. THE AMERICAN THREAD COMPANY, Jersey City, N. J.
Filed July 15, 1921. Serial No. 150,386. PUBLISHED AUGUST 30, 1921.

149,822. SPOOL-COTTON, SEWING-COTTON, THREAD, AND COTTON YARN. THE AMERICAN THREAD COMPANY, Jersey City, N. J.
Filed July 15, 1921. Serial No. 150,394. PUBLISHED AUGUST 30, 1921.

149,823. COFFEE. J. ARON & COMPANY, INC., New York, N. Y.
Filed June 7, 1921. Serial No. 148,786. PUBLISHED AUGUST 30, 1921.

149,824. PROPRIETARY MEDICINES FOR THE RELIEF OF SUCH AILMENTS AS HEADACHES, COLDS, LA GRIPPE, AND INDIGESTION. ARROW CHEMICAL COMPANY, St. Louis, Mo.
Filed April 10, 1921. Serial No. 130,940. PUBLISHED JULY 12, 1921.

149,825. MACARONI. THE ATLANTIC MACARONI Co., INC., Long Island City, N. Y.
Filed March 22, 1921. Serial No. 145,053. PUBLISHED SEPTEMBER 6, 1921.

149,826. PHARMACEUTICAL PREPARATIONS, PARTICULARLY INSECTICIDES, GERMICIDES, AND RELATED PRODUCTS. CHARLES H. AUERBACH and ROY P. AUERBACH, Chicago, Ill.
Filed May 24, 1921. Serial No. 148,112. PUBLISHED SEPTEMBER 6, 1921.

149,827. NAME-PLATES AND LICENSE-PLATES FOR MOTOR-VEHICLES. AUTOHOME PLATE COMPANY, Ellensburk, Wash.
Filed April 14, 1921. Serial No. 146,160. PUBLISHED SEPTEMBER 6, 1921.

149,828. CERTAIN NAMED RIFLES, PISTOLS, GUNS, MAGAZINES FOR SAME, AND BAYONETS. AUTO-ORDNANCE CORPORATION, New York, N. Y.
Filed July 26, 1921. Serial No. 150,051. PUBLISHED SEPTEMBER 20, 1921.

149,829. VANISHING CREAM. HARRIET HUBBARD AYER, New York, N. Y.
Filed April 19, 1921. Serial No. 146,352. PUBLISHED AUGUST 23, 1921.

149,830. A PREPARATION FOR INCREASING THE BRILLIANCY AND REMOVING THE YELLOWNESS FROM WHITE OR GRAY HAIR. HARRIET HUBBARD AYER, New York, N. Y.
Filed April 19, 1921. Serial No. 146,353. PUBLISHED AUGUST 9, 1921.

149,831. POWDER AND ROUGE COMPACTS. HARRIET HUBBARD AYER, New York, N. Y.
Filed April 19, 1921. Serial No. 146,354. PUBLISHED AUGUST 2, 1921.

149,832. POWDER AND ROUGE COMPACTS. HARRIET HUBBARD AYER, New York, N. Y.
Filed April 19, 1921. Serial No. 146,356. PUBLISHED AUGUST 2, 1921.

149,833. POWDER AND ROUGE COMPACTS. HARRIET HUBBARD AYER, New York, N. Y.
Filed April 19, 1921. Serial No. 146,358. PUBLISHED AUGUST 2, 1921.

149,834. A PREPARATION FOR TREATMENT OF HEAVES. CURTIS A. BAKER, Prescott, Wis.
Filed May 28, 1921. Serial No. 148,367. PUBLISHED AUGUST 30, 1921.

149,835. MALTLESS, ARTIFICIAL GRAPE BEVERAGES SOLD AS SOFT DRINK, AND SYRUP FOR MAKING THE SAME. PETER E. BARNETT, Chicago, Ill.
Filed February 12, 1921. Serial No. 143,482. PUBLISHED AUGUST 16, 1921.

149,836. PASTE AND READY-MIXED PAINTS, VARNISHES, AND STAINS. BASS-HUETER PAINT Co., San Francisco, Calif.
Filed March 24, 1921. Serial No. 145,149. PUBLISHED AUGUST 16, 1921.

149,837. COMBINATION LIFTER AND STAND FOR VEHICLE-WHEELS. LYNN C. BAKER, Detroit, Mich., assignor to American Accessories Company, Detroit, Mich., a Corporation of Michigan.
Filed May 11, 1921. Serial No. 147,348. PUBLISHED AUGUST 30, 1921.

149,838. A PREPARATION IN THE FORM OF A SALVE FOR THE TREATMENT OF CANCERS AND CANCEROUS SORES. ANNIE L. BEALL, Birmingham, Ala.
Filed May 10, 1920. Serial No. 152,228. PUBLISHED AUGUST 9, 1921.

149,839. CAMBRICS IN THE PIECE. BERKSHIRE COMPANY, Providence, R. I.
Filed July 9, 1921. Serial No. 150,176. PUBLISHED AUGUST 30, 1921.

149,840. A MEDICINAL PREPARATION FOR THE TREATMENT OF DYSPEPSIA AND INDIGESTION. JULIUS BERLIN, New York, N. Y.
Filed April 5, 1921. Serial No. 145,757. PUBLISHED AUGUST 16, 1921.

149,841. COTTON VOILE IN THE PIECE. JACOB S. BERNHEIMER & BRO., New York, N. Y.
Filed May 24, 1921. Serial No. 148,113. PUBLISHED SEPTEMBER 6, 1921.

149,842. SERIAL AND SINGLE CARTOONS. RICHARD JAMES BIRGER, St. Louis, Mo.
Filed June 10, 1921. Serial No. 148,915. PUBLISHED SEPTEMBER 20, 1921.

149,843. FRESH TOMATOES. FRANK BIOGIO & SONS, Chicago, Ill.
Filed May 9, 1921. Serial No. 147,404. PUBLISHED AUGUST 16, 1921.

149,844. DROP-PRESSES AND AUTOMATIC DROP-LIFTERS FOR LIFTING AND OPERATING THE HAMMERS OF DROP-PRESSES. BIRMINGHAM IRON FOUNDRY, Derby, Conn.
Filed March 7, 1921. Serial No. 144,376. PUBLISHED AUGUST 30, 1921.

149,845. CHOCOLATE IN CAKE FORM FOR EATING PURPOSES. BISHOP & COMPANY, Los Angeles, Calif.
Filed May 9, 1921. Serial No. 147,401. PUBLISHED AUGUST 16, 1921.

149,846. HAIR-NETS. S. BLECHMAN & SONS INC., New York, N. Y.
Filed April 27, 1921. Serial No. 146,789. PUBLISHED AUGUST 16, 1921.

149,847. CERTAIN METAL-WORKING MACHINERY AND TOOLS. E. W. BLISS COMPANY, Brooklyn, N. Y.
Filed April 1, 1921. Serial No. 145,547. PUBLISHED AUGUST 30, 1921.

149,848. A FERTILIZER-DISTRIBUTER. JOHN BLUE, Laurinburg, N. C.
Filed May 6, 1921. Serial No. 147,276. PUBLISHED AUGUST 16, 1921.

149,849. BISQUE-HEADED DOLLS. GEORGE BORGFELDT & CO., New York, N. Y.
Filed February 23, 1921. Serial No. 143,909. PUBLISHED SEPTEMBER 6, 1921.

149,850. DRY, READY-MIXED, AND PASTE PAINTS; SHINGLE-STAIN, BRONZING LIQUID, WOOD-FILLER, AND STOVE-ENAMEL. FRANK BOWNES COMPANY INC., Lynn, Mass.
Filed January 18, 1921. Serial No. 142,382. PUBLISHED AUGUST 16, 1921.

149,851. GARMENT-HANGERS. BRAGER BROS., New York, N. Y.
Filed March 16, 1921. Serial No. 144,799. PUBLISHED SEPTEMBER 13, 1921.

149,852. A NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGE SOLD AS A SOFT DRINK. MARTIN BROCK & AUGUST B. PRAETSCH, Jamaica Plain, Mass.
Filed April 4, 1921. Serial No. 145,667. PUBLISHED AUGUST 16, 1921.

149,853. A SALVE FOR THE TREATMENT OF BOILS AND CARBUNCLES. JAMES H. BRUNHEAD, Akron, Ohio.
Filed May 6, 1920. Serial No. 152,078. PUBLISHED AUGUST 2, 1921.

149,854. BRAIDED ASBESTOS LUBRICATED YARN PACKING. STEWART R. BROWNE MFG. CO., INC., New York, N. Y.
Filed July 16, 1921. Serial No. 150,434. PUBLISHED AUGUST 30, 1921.

149,855. GAME-BOARD, GAME-INDICATOR, GAME-COUNTER, GAME-PIECE, AND GAMES PLAYED THEREWITH. EDMUND BRUNS, Chicago, Ill.
Filed May 7, 1921. Serial No. 147,332. PUBLISHED SEPTEMBER 6, 1921.

149,856. GAME-BOARD, GAME-INDICATOR, GAME-COUNTER, GAME-PIECE, AND GAMES PLAYED THEREWITH. EDMUND BRUNS, Chicago, Ill.
Filed May 14, 1921. Serial No. 147,703. PUBLISHED SEPTEMBER 6, 1921.

149,857. ELECTRIC-LAMP SOCKETS AND RECEPTACLES. THE BRYANT ELECTRIC COMPANY, Bridgeport, Conn.
Filed April 16, 1921. Serial No. 146,247. PUBLISHED AUGUST 16, 1921.

149,858. A MONTHLY MAGAZINE PUBLICATION. BUFFALO SOCIETY OF NATURAL SCIENCES, Buffalo, N. Y.
Filed February 4, 1921. Serial No. 143,151. PUBLISHED AUGUST 23, 1921.

149,859. WATER-BAG JOURNAL-COOLERS. IRA L. BURLINGAME, St. Louis, Mo.
Filed December 10, 1920. Serial No. 140,897. PUBLISHED SEPTEMBER 13, 1921.

149,860. COTTON PIECE GOODS. THE CALICO PRINTERS' ASSOCIATION LIMITED, Manchester, England.
Filed January 31, 1921. Serial No. 142,958. PUBLISHED JUNE 14, 1921.

149,861. VEGETABLE FIBER TO BE USED IN THE MANUFACTURE OF CERTAIN NAMED GOODS. CALIFORNIA FIBRE COMPANY, San Francisco, Calif.
Filed May 3, 1921. Serial No. 147,153. PUBLISHED AUGUST 16, 1921.

149,862. MIXED AND DRY PAINT, STAINS, VARNISHES, PAINT ENAMELS, COLORS IN OIL, COLORS IN JAPAN, COLORS IN DISTEMPER, BRONZING LIQUIDS. CALIFORNIA PAINT COMPANY, Oakland, Calif.
Filed April 13, 1921. Serial No. 146,110. PUBLISHED AUGUST 16, 1921.

149,863. MIXED AND DRY PAINT, STAINS, VARNISHES, PAINT ENAMELS, COLORS IN OIL, COLORS IN JAPAN, COLORS IN DISTEMPER, BRONZING LIQUIDS. CALIFORNIA PAINT COMPANY, Oakland, Calif.
Filed April 13, 1921. Serial No. 146,111. PUBLISHED AUGUST 16, 1921.

149,864. DUST-SPRAYERS FOR SPRAYING INSECTICIDE AND FUNGICIDE ON ALL KINDS OF VEGETATION. THE CALIFORNIA SPRAYER COMPANY, Los Angeles, Calif.
Filed May 12, 1921. Serial No. 147,598. PUBLISHED AUGUST 16, 1921.

149,865. CANNED PEARS, CANNED TOMATOES, CERTAIN NAMED FRESH VEGETABLES AND FRESH FRUITS, AND ORANGES. CALIFORNIA VEGETABLE UNION, Los Angeles, Calif.
Filed March 15, 1920. Serial No. 129,696. PUBLISHED AUGUST 30, 1921.

149,866. CANDY. CANDY PRODUCTS CORPORATION, Chicago, Ill.
Filed August 24, 1920. Serial No. 136,402. PUBLISHED JULY 12, 1921.

149,867. MATTRESSES. CAPITOL BEDDING COMPANY, Washington, D. C.
Filed March 21, 1921. Serial No. 145,007. PUBLISHED SEPTEMBER 20, 1921.

149,868. CRUSHED OYSTER-SHELL USED AS POULTRY FEED. CAROLINA CRUSHED SHELL CO., Charleston, S. C.
Filed July 18, 1921. Serial No. 150,514. PUBLISHED SEPTEMBER 6, 1921.

149,869. PERCALE DRESS GOODS IN THE PIECE. CARSON, PIRIE, SCOTT & CO., Chicago, Ill., assignor to Carson Pirie Scott & Company, Chicago, Ill., a Corporation of Illinois.
Filed March 20, 1919. Serial No. 116,789. PUBLISHED AUGUST 23, 1921.

149,870. PURSES AND POCKETBOOKS. CARTIER, INC., New York, N. Y.
Filed March 19, 1921. Serial No. 144,963. PUBLISHED SEPTEMBER 13, 1921.

149,871. A VEGETABLE GLUE AND PASTE FOR PAPER-BOX MANUFACTURING, BOOKBINDING, &c. CENTRAL ADHESIVE COMPANY, Chicago, Ill.
Filed June 15, 1921. Serial No. 149,170. PUBLISHED SEPTEMBER 13, 1921.

149,872. CRATES, WOOD BOXES, AND CARTONS. THE CENTRAL FURNITURE PACKING COMPANY, Chicago, Ill.
Filed February 23, 1921. Serial No. 143,911. PUBLISHED SEPTEMBER 20, 1921.

149,873. HOUSEHOLD FURNITURE—NAMELY, TABLES, CHAIRS, BEDS, BUREAUS, STANDS, SHADES, WARDROBES, CABINETS, CREDENCES, AND SETTEES. CHAMBERLAYNE, INC., New York, N. Y.
Filed November 6, 1920. Serial No. 139,253. PUBLISHED SEPTEMBER 20, 1921.

149,874. A POLISH FOR CLEANING AND POLISHING FURNITURE, FLOORS, LINOLEUM, PIANOS, AUTOS, &c. CHANNELL CHEMICAL COMPANY, Chicago, Ill.; Toronto, Canada; London, England, and Paris, France.
Filed March 8, 1921. Serial No. 144,453. PUBLISHED AUGUST 16, 1921.

149,875. A POLISH FOR CLEANING AND POLISHING FURNITURE, FLOORS, LINOLEUM, PIANOS, AUTOS, &c. CHANNELL CHEMICAL COMPANY, Chicago, Ill.; Toronto, Canada; London, England, and Paris, France.
Filed March 8, 1921. Serial No. 144,454. PUBLISHED AUGUST 16, 1921.

149,876. TEA AND COFFEE. CHASE & SANBORN, Boston, Mass.
Filed May 28, 1921. Serial No. 148,378. PUBLISHED AUGUST 30, 1921.

149,877. A CERTAIN NAMED MEDICINAL PREPARATION. CHEMISCHE FABRIK VORMALS SANDOZ, Basel, Switzerland.
Filed February 23, 1921. Serial No. 143,916. PUBLISHED AUGUST 30, 1921.

149,878. PNEUMATIC TOOLS—NAMELY, RIVETING-HAMMERS. CHICAGO PNEUMATIC TOOL COMPANY, New York, N. Y.
Filed April 18, 1921. Serial No. 146,295. PUBLISHED AUGUST 30, 1921.

149,879. PNEUMATIC TOOLS—NAMELY, RIVETING-HAMMERS. CHICAGO PNEUMATIC TOOL COMPANY, New York, N. Y.
Filed April 18, 1921. Serial No. 146,296. PUBLISHED SEPTEMBER 6, 1921.

149,880. METAL HEELS AND TREAD-LIFTS THEREFOR. CINDERELLA HEEL CORPORATION, St. Louis, Mo.
Filed March 17, 1921. Serial No. 144,848. PUBLISHED AUGUST 23, 1921.

149,881. FERTILIZERS. THE COE-MORTIMER COMPANY, New York, N. Y.
Filed March 14, 1921. Serial No. 144,707. PUBLISHED AUGUST 23, 1921.

149,882. VENDING-MACHINES. COINOUM MANUFACTURING COMPANY, Philadelphia, Pa.
Filed April 28, 1921. Serial No. 146,875. PUBLISHED AUGUST 23, 1921.

149,883. MARSHMALLOW CRÈME. THE COLBY CONFECTIONERY COMPANY, INC., Los Angeles, Calif.
Filed May 9, 1921. Serial No. 147,410. PUBLISHED AUGUST 16, 1921.

149,884. LIQUID AND POWDERED PERFUMES. COLGATE & COMPANY, Jersey City, N. J.
Filed June 13, 1921. Serial No. 149,062. PUBLISHED SEPTEMBER 20, 1921.

149,885. LIQUID AND POWDERED PERFUMES. COLGATE & COMPANY, Jersey City, N. J.
Filed June 13, 1921. Serial No. 149,064. PUBLISHED SEPTEMBER 20, 1921.

149,886. LIQUID AND POWDERED PERFUMES. COLGATE & COMPANY, Jersey City, N. J.
Filed June 13, 1921. Serial No. 149,067. PUBLISHED SEPTEMBER 20, 1921.

149,887. LIQUID AND POWDERED PERFUMES. COLGATE & COMPANY, Jersey City, N. J.
Filed June 13, 1921. Serial No. 149,068. PUBLISHED SEPTEMBER 20, 1921.

149,888. SOAPS. COLGATE & COMPANY, Jersey City, N. J.
Filed June 21, 1921. Serial No. 149,444. PUBLISHED SEPTEMBER 6, 1921.

149,889. CONDENSED BUTTERMILK. COMMERCIAL CREAMERY COMPANY, Spokane, Wash.
Filed April 1, 1921. Serial No. 145,548. PUBLISHED AUGUST 16, 1921.

149,890. CANDY. CONTINENTAL CANDY CORPORATION, Chicago, Ill.
Filed December 14, 1920. Serial No. 141,064. PUBLISHED AUGUST 16, 1921.

149,891. PAPER BAGS, EGG-CARTONS, AND MERCHANDISE-ENVELOPS. CONTINENTAL PAPER & BAG MILLS, New York, N. Y.
Filed June 1, 1921. Serial No. 148,480. PUBLISHED SEPTEMBER 20, 1921.

149,892. ADHESIVE CEMENT. HARRY A. COOK, Yakima, Wash.
Filed January 26, 1921. Serial No. 142,782. PUBLISHED AUGUST 23, 1921.

149,893. CERTAIN NAMED CHEMICAL, MEDICINAL AND PHARMACEUTICAL PREPARATIONS. COOPER & COOPER, INC., New York, N. Y.
Filed March 12, 1920. Serial No. 129,586. PUBLISHED AUGUST 23, 1921.

149,894. MERCERIZED, COTTON, SILK, AND UNFILLED SILK SOUTACHE; SILK, MERCERIZED, COTTON AND SILK SHELL-BRAIDS. CORONA BRAID WORKS, Corona, N. Y.
Filed March 12, 1921. Serial No. 144,666. PUBLISHED SEPTEMBER 6, 1921.

149,895. PEANUT-BRITTLE. JAMES R. COUNCIL, Norfolk, Va.
Filed April 22, 1921. Serial No. 146,520. PUBLISHED AUGUST 16, 1921.

149,896. TRAFFIC-SIGNALS FOR MOTOR-VEHICLES. JOHN D. COWARD, Boston, Mass.
Filed May 3, 1921. Serial No. 147,155. PUBLISHED AUGUST 30, 1921.

149,897. A GENERAL MEDICINAL TONIC. D. & D. REMEDY COMPANY, Chattanooga, Tenn.
Filed June 14, 1921. Serial No. 149,128. PUBLISHED SEPTEMBER 20, 1921.

149,898. ROCK-DRILLS, DRILL-SHARPENERS, DRILL-BITS, AND PARTS THEREOF. THE DENVER ROCK DRILL MANUFACTURING COMPANY, Denver, Colo.
Filed April 14, 1921. Serial No. 146,167. PUBLISHED AUGUST 23, 1921.

149,899. WHIPS. DIAMOND WHIP COMPANY, Chicago, Ill.
Filed November 19, 1920. Serial No. 139,863. PUBLISHED SEPTEMBER 13, 1921.

149,900. SINK-FLUSHERS. WILLIAM GUSTAV DONALD, Berkeley, Calif.
Filed May 2, 1921. Serial No. 147,096. PUBLISHED AUGUST 30, 1921.

149,901. LUBRICATING-OILS. DOUBLENE OIL CO., Chicago, Ill.
Filed February 16, 1921. Serial No. 143,636. PUBLISHED SEPTEMBER 6, 1921.

149,902. WOOLEN GOODS IN THE PIECE. JAMES A. DOYLE, New York, N. Y.
Filed July 6, 1921. Serial No. 150,063. PUBLISHED AUGUST 30, 1921.

149,903. URINALYSIS-CABINETS. DU BOIS LABORATORIES, New York, N. Y.
Filed March 7, 1921. Serial No. 144,387. PUBLISHED AUGUST 23, 1921.

149,904. RUBBER TIRES AND TUBES. DU BOIS RUBBER & TUBE COMPANY, Chattanooga, Tenn.
Filed June 11, 1921. Serial No. 148,979. PUBLISHED AUGUST 30, 1921.

149,905. RUBBER TIRES AND TUBES. DU BOIS RUBBER & TUBE CO., Chattanooga, Tenn.
Filed June 11, 1921. Serial No. 148,980. PUBLISHED AUGUST 30, 1921.

149,906. LUBRICATING OILS AND GREASES. JOHN DUNN, SON & CO., New York, N. Y.
Filed January 8, 1921. Serial No. 141,785. PUBLISHED AUGUST 23, 1921.

149,907. WINDOW-REGULATORS. DURA MECHANICAL HARDWARE CO., INC., Toledo, Ohio.
Filed April 4, 1921. Serial No. 145,675. PUBLISHED SEPTEMBER 6, 1921.

149,908. CERTAIN NAMED CONSTRUCTION MATERIALS. ALBERT ERNEST HORATIO DUNSEK, London, England.
Filed January 26, 1921. Serial No. 142,877. PUBLISHED AUGUST 16, 1921.

149,909. COMBINATION-GAS-INTAKE DEFLECTORS AND GASKETS FOR USE ON INTERNAL-COMBUSTION ENGINES. MARSHALL B. EATON, Canandaigua, N. Y.
Filed February 17, 1921. Serial No. 143,688. PUBLISHED AUGUST 23, 1921.

149,910. TOILET POWDER. THE ELI LILLY & COMPANY, Indianapolis, Ind.
Filed July 7, 1919. Serial No. 120,811. PUBLISHED AUGUST 16, 1921.

149,911. SOLDER, COPPER AND TIN, AND CERTAIN PRODUCTS OF IRON, COPPER, AND TIN. ELLENWOOD & DOYLE, INC., New York, N. Y.
Filed March 19, 1921. Serial No. 144,069. PUBLISHED JUNE 28, 1921.

149,912. HAIR-NETS. EMPIRE NOTION CO., New York, N. Y.
Filed July 2, 1921. Serial No. 149,955. PUBLISHED AUGUST 30, 1921.

149,913. ATTRITION-MILLS AND COFFEE-SHELLERS. THE ENGELBERG HULLER COMPANY, Syracuse, N. Y.
Filed April 29, 1921. Serial No. 146,960. PUBLISHED AUGUST 30, 1921.

149,914. RAZORS. JOHN ENGSTROM JR. CO., Little Valley, N. Y.
Filed April 18, 1921. Serial No. 146,288. PUBLISHED AUGUST 23, 1921.

149,915. METAL MOLDS. EISENBERGER & CO., New York, N. Y.
Filed April 23, 1921. Serial No. 146,530. PUBLISHED AUGUST 30, 1921.

149,916. NON-ALCOHOLIC, NON-CEREAL MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. EVERS-REHM CO., New York, N. Y.
Filed March 16, 1921. Serial No. 144,806. PUBLISHED AUGUST 30, 1921.

149,917. VEHICLE-TIRES MADE WHOLLY OR PARTLY OF RUBBER. THE FEDERAL RUBBER COMPANY, Cudahy, Wis.
Filed April 28, 1921. Serial No 146,905. PUBLISHED AUGUST 16, 1921.

149,918. VEHICLE-TIRES MADE WHOLLY OR PARTLY OF RUBBER. THE FEDERAL RUBBER COMPANY, Cudahy, Wis.
Filed April 28, 1921. Serial No. 146,904. PUBLISHED AUGUST 16, 1921.

149,919. HAND-MIRRORS. THE FISSELOID CORPORATION, Indian Orchard, Mass.
Filed January 8, 1921. Serial No. 141,971. PUBLISHED AUGUST 16, 1921.

149,920. TIRE-FILLERS. NELSON W. FINCH, Chicago, Ill.
Filed April 6, 1921. Serial No. 145,889. PUBLISHED AUGUST 23, 1921.

149,921. FERTILIZERS. THE FISHERIES PRODUCTS CO., INC., New York, N. Y.
Filed January 22, 1921. Serial No. 142,615. PUBLISHED AUGUST 23, 1921.

149,922. A MEDICINE FOR TREATMENT OF CHOLERA AND ROUP. HENRY C. FORD, Lima, Ohio.
Filed June 14, 1920. Serial No. 133,658. PUBLISHED AUGUST 30, 1921.

149,923. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed July 19, 1921. Serial No. 150,602. PUBLISHED SEPTEMBER 13, 1921.

149,924. CONCRETE-MIXERS, OR CONCRETE-MIXING MACHINES, OR CONCRETE-MIXING APPARATUS. ABRAHAM LINCOLN FRAME, Reading, Pa.
Filed March 22, 1921. Serial No. 145,060. PUBLISHED AUGUST 30, 1921.

149,925. DRY-CELL BATTERIES. FRENCH BATTERY & CARBON CO., Madison, Wis.
Filed April 25, 1921. Serial No. 146,704. PUBLISHED AUGUST 16, 1921.

149,926. POTATO-CHIPS. FLORENCE P. GANSER, Reading, Pa., Charles B. Ganser and Frank Anthony, administrators of said Florence P. Ganser, deceased, assignors to Frank M. Anthony and Arthur A. Anthony, Reading, Pa., copartners trading as Jersey Potato Chip Co.
Filed June 15, 1921. Serial No. 149,184. PUBLISHED SEPTEMBER 6, 1921.

149,927. CANDY. THE GERBER COMPANY, Baltimore, Md.
Filed April 18, 1921. Serial No. 146,310. PUBLISHED AUGUST 16, 1921.

149,928. CANNED FISH. J. V. GIACONI & CO., Long Beach, Calif.
Filed March 22, 1921. Serial No 145,061. PUBLISHED AUGUST 16, 1921.

149,929. SHOE-POLISH. WILLIAM M. GIBBS, Duluth, Minn.
Filed June 13, 1921. Serial No. 149,079. PUBLISHED AUGUST 23, 1921.

149,930. POULTRY FOOD. G. F. GIVAN, Constantine, Ky.
Filed February 15, 1921. Serial No. 143,505. PUBLISHED AUGUST 23, 1921.

149,931. ADHESIVE CEMENT. JOHN GOLDSTEIN, New York, N. Y.
Filed January 19, 1921. Serial No. 142,497. PUBLISHED AUGUST 23, 1921.

149,932. A LOCAL ANESTHETIC FOR USE IN PAINLESS EXTRACTION OF TEETH AND IN GENERAL SURGERY. DR. O. W. GREEN & DR. L. O. GREEN, Chicago, Ill.
Filed November 1, 1920. Serial No. 139,631. PUBLISHED AUGUST 23, 1921.

149,933. CERTAIN TOOLS AND PARTS OF MACHINERY. GREENFIELD TAP AND DIE CORPORATION, Greenfield, Mass.
Filed January 8, 1921. Serial No. 141,975. PUBLISHED JUNE 14, 1921.

149,934. HEADACHE AND NEURALGIA REMEDY. HARRY M. GRIFFIN, Peekskill, N. Y.
Filed December 1, 1920. Serial No. 140,494. PUBLISHED AUGUST 30, 1921.

149,935. LOAF-CAKE. GROCERS BAKING COMPANY, INCORPORATED, Louisville, Ky.
Filed April 4, 1921. Serial No. 145,663. PUBLISHED AUGUST 16, 1921.

149,936. DESKS. THE GUNN FURNITURE COMPANY, Grand Rapids, Mich.
Filed February 28, 1921. Serial No. 144,137. PUBLISHED AUGUST 16, 1921.

149,937. SOAP. JOSEPH GUTHADT COMPANY, San Francisco, Calif.
Filed May 4, 1921. Serial No. 147,190. PUBLISHED AUGUST 23, 1921.

149,938. A MEDICINAL PREPARATION TO BE TAKEN INTERNALLY FOR THE TREATMENT OF GONORRHEA. VICTOR HAIPER, New York, N. Y.
Filed April 28, 1921. Serial No. 146,911. PUBLISHED AUGUST 16, 1921.

149,939. A SPECIFIC FOR BLOOD DISEASES. HEALTH LABORATORIES, Scranton, Pa., assignor to The Lloyd Health Co., Scranton, Pa., a Firm.
Filed February 19, 1921. Serial No. 143,818. PUBLISHED JUNE 28, 1921.

149,940. A SPECIFIC FOR RHEUMATISM. HEALTH LABORATORIES, Scranton, Pa., assignor to The Lloyd Health Co., Scranton, Pa., a Firm.
Filed February 19, 1921. Serial No. 143,819. PUBLISHED JULY 12, 1921.

149,941. MENDING-CEMENT. L. HEMMENDINGER & CO., New York, N. Y.
Filed December 11, 1920. Serial No. 140,943. PUBLISHED AUGUST 23, 1921.

149,942. A TITLE FOR A MONTHLY PUBLICATION. THE HERDLER CREAMERY COMPANY, Baltimore, Md.
Filed November 6, 1920. Serial No. 139,275. PUBLISHED SEPTEMBER 13, 1921.

149,943. CERTAIN MACHINES AND TOOLS. HIBBARD, SPENCER, BARTLETT & CO., Chicago, Ill.
Filed April 4, 1921. Serial No. 145,686. PUBLISHED AUGUST 23, 1921.

149,944. BASEBALL-BATS. HILTON COLLINS CO. INCORPORATED, Louisville, Ky.
Filed March 15, 1921. Serial No. 144,772. PUBLISHED AUGUST 30, 1921.

149,945. COTTON PIECE GOODS. HINCK & MULLER, New York, N. Y.
Filed July 13, 1921. Serial No. 150,315. PUBLISHED AUGUST 30, 1921.

149,946. A MEDICINAL PREPARATION FOR TONSILLITIS, SORE THROAT, AND ALL BRONCHIAL TROUBLES. LEONARD L. HOBACK, Athens, Tenn.
Filed September 21, 1920. Serial No. 137,411. PUBLISHED AUGUST 9, 1921.

149,947. FLAKE GRAPHITE, MICA, AND SOAPSTONE. THE R. M. HOLLINGSHEAD CO., Camden, N. J.
Filed June 14, 1921. Serial No. 149,183. PUBLISHED SEPTEMBER 13, 1921.

149,948. CERTAIN NAMED ADHESIVES. THE R. M. HOLLINGSHEAD CO., Camden, N. J.
Filed June 14, 1921. Serial No. 149,185. PUBLISHED SEPTEMBER 20, 1921.

149,949. A PREPARATION FOR THE TREATMENT OF WARTS. HOMEAID PRODUCTS CO., Jersey City, N. J.
Filed May 23, 1921. Serial No. 148,072. PUBLISHED SEPTEMBER 6, 1921.

149,950. ELASTIC WEBBING. HOPE WEBBING COMPANY, INC., Pawtucket, R. I.
Filed July 20, 1921. Serial No. 150,681. PUBLISHED SEPTEMBER 13, 1921.

149,951. COTTON FABRICS IN THE PIECE. HOWLETT & HOCKMEYER CO., INC., New York, N. Y.
Filed June 23, 1921. Serial No. 149,549. PUBLISHED SEPTEMBER 6, 1921.

149,952. METAL TOILET PARTITIONS. THE HUGHES-KEENAN COMPANY, Mansfield, Ohio.
Filed April 12, 1921. Serial No. 146,077. PUBLISHED SEPTEMBER 6, 1921.

149,953. CARD GAME. PERCY EARNEST HURST, South Croydon, England.
Filed April 4, 1921. Serial No. 145,687. PUBLISHED AUGUST 30, 1921.

149,954. WOOLEN PIECE GOODS, SUITINGS, AND OVERCOATING, OF TEXTILE FABRIC. F. C. HUYCK & SONS, Albany, N. Y.
Filed February 21, 1921. Serial No. 143,863. PUBLISHED AUGUST 16, 1921.

149,955. HAND FIRE-EXTINGUISHERS. IDEAL FIRE EXTINGUISHER CO., Providence, R. I.
Filed April 16, 1921. Serial No. 146,256. PUBLISHED AUGUST 30, 1921.

149,956. ROOT-BEER. THE INDEPENDENT BREWERIES COMPANY, St. Louis, Mo.
Filed August 2, 1921. Serial No. 151,274. PUBLISHED SEPTEMBER 13, 1921.

149,957. READY-MIXED PAINT. THE INDUSTRIAL PAINT COMPANY, Milwaukee, Wis.
Filed April 16, 1921. Serial No. 146,259. PUBLISHED AUGUST 16, 1921.

149,958. PNEUMATIC MOTOR-HOISTS. INGERSOLL-RAND COMPANY, Jersey City, N. J., and New York, N. Y.
Filed April 26, 1921. Serial No. 146,760. PUBLISHED AUGUST 23, 1921.

149,959. TOILET SOAP. INTERNATIONAL DRUG COMPANY, Wilmington, Del.
Filed June 15, 1921. Serial No. 149,185. PUBLISHED SEPTEMBER 6, 1921.

149,960. SHADE-CLOTH. INTERSTATE SHADE CLOTH CO., Hoboken, N. J.
Filed May 2, 1921. Serial No. 147,103. PUBLISHED AUGUST 16, 1921.

149,961. MIXED WHEAT AND CORN FLOUR. THE ISMERT-HINCKE MILLING COMPANY, Kansas City, Kans., and Kansas City, Mo.
Filed February 21, 1921. Serial No. 143,866. PUBLISHED SEPTEMBER 6, 1921.

149,962. SALVE FOR CERTAIN NAMED AILMENTS. JOSEPH JANKOWSKI, Chicago, Ill.
Filed April 2, 1921. Serial No. 145,629. PUBLISHED AUGUST 2, 1921.

149,963. A MEDICINAL PREPARATION FOR TREATMENT OF CHILLS. CECIL JOHNSTON, Royse City, Tex.
Filed November 16, 1920. Serial No. 139,713. PUBLISHED AUGUST 23, 1921.

149,964. A CERTAIN NAMED MEDICINAL AND SCALP PREPARATION. PATTIE R. JONES, Birmingham, Ala.
Filed February 19, 1920. Serial No. 123,604. PUBLISHED AUGUST 30, 1921.

149,965. REMEDY FOR PILES. ROBERT N. JONES, Crystal Springs, Miss.
Filed September 16, 1920. Serial No. 137,261. PUBLISHED AUGUST 30, 1921.

149,966. MISSES' AND JUNIORS' SUITS AND COATS. KANNER, MARKS & TRACHTE, New York, N. Y.
Filed November 27, 1920. Serial No. 140,257. PUBLISHED AUGUST 23, 1921.

149,967. UPHOLSTERED DAVENPORTS, SOFAS, SETTEES, ARM-CHAIRS, ROCKERS, AND SIDE CHAIRS. S. KARPEN & BROS., Chicago, Ill.
Filed February 23, 1921. Serial No. 143,929. PUBLISHED SEPTEMBER 6, 1921.

149,968. PREPARED MEDICINE FOR CERTAIN NAMED PURPOSES. JINSEIICHI KATO, Kyoto, Japan.
Filed October 15, 1920. Serial No. 138,220. PUBLISHED AUGUST 2, 1921.

149,969. EGG PRESERVATIVES. K. & G. LABORATORIES CO., Chicago, Ill.
Filed June 13, 1921. Serial No. 149,086. PUBLISHED SEPTEMBER 20, 1921.

149,970. PIPE THREAD AND GASKET COMPOUND. THE KIMBALL COMPANY, Philadelphia, Pa.
Filed February 25, 1921. Serial No. 144,035. PUBLISHED AUGUST 16, 1921.

149,971. A PREPARATION FOR THE TREATMENT OF CERTAIN AILMENTS. BARNET KITS, Chicago, Ill.
Filed October 18, 1920. Serial No. 138,445. PUBLISHED AUGUST 23, 1921.

149,972. NON-ALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. A. F. KLOSS CO., Scranton, Pa.
Filed March 16, 1921. Serial No. 144,815. PUBLISHED SEPTEMBER 13, 1921.

149,973. TOILET PREPARATION USED AS A FACE PACK. ANNETTE KNAPP, Los Angeles, Calif.
Filed March 30, 1920. Serial No. 130,369. PUBLISHED AUGUST 23, 1921.

149,974. SOAP. THE KOLYNOS COMPANY, New Haven, Conn.
Filed June 20, 1921. Serial No. 149,406. PUBLISHED SEPTEMBER 6, 1921.

149,975. COUGH-DROPS. IDA M. KRESS, San Francisco, Calif.
Filed April 30, 1921. Serial No. 147,028. PUBLISHED AUGUST 16, 1921.

149,976. A PREPARATION FOR THE REMOVAL OF CORNS. ALFRED M. KRONBERGER, Boston, Mass.
Filed October 6, 1920. Serial No. 138,011. PUBLISHED JULY 26, 1921.

149,977. PASTE AND LIQUID PAINTS AND PAINTERS' ENAMELS, STAINS, AND FILLERS, AND PUTTY. HARRY J. KUHN, Houston, Tex.
Filed January 19, 1921. Serial No. 142,442. PUBLISHED AUGUST 23, 1921.

149,978. VARNISHES, STAINS, LACQUERS, JAPAN DRIERS, AND ASPHALT VARNISH AND PAINT. HARRY J. KUHN, Houston, Tex.
Filed January 19, 1921. Serial No. 142,443. PUBLISHED AUGUST 23, 1921.

149,979. SKYLIGHTS. AUGUST KUHNLA, INC., Brooklyn, N. Y.
Filed June 1, 1921. Serial No. 148,495. PUBLISHED AUGUST 30, 1921.

149,980. MOLDS FOR CASTING BATTERY PARTS. EDWARD J. KUKAC, Chicago, Ill.
Filed March 3, 1921. Serial No. 144,288. PUBLISHED AUGUST 23, 1921.

149,981. CERTAIN NAMED PRESERVED FRUITS, JAMS, JELLIES, PICKLES, &c. ERICH KUHRMANN, New York, N. Y.
Filed November 5, 1920. Serial No. 139,211. PUBLISHED APRIL 5, 1921.

149,982. FIRE-BRICK AND FIRE-TILE. LACLEDE-CHRISTY CLAY PRODUCTS COMPANY, St. Louis, Mo.
Filed July 25, 1921. Serial No. 150,904. PUBLISHED SEPTEMBER 6, 1921.

149,983. FERTILIZERS, SOFT PHOSPHATES, AND OTHER FERTILIZER PRODUCTS. LAKELAND PHOSPHATE & FERTILIZER COMPANY, Wilmington, Del., and Lakeland, Fla.
Filed February 23, 1921. Serial No. 143,931. PUBLISHED SEPTEMBER 6, 1921.

149,984. DESKS. HARRY R. LABERLOW, Rochester, N. Y.
Filed January 8, 1921. Serial No. 141,982. PUBLISHED AUGUST 16, 1921.

149,985. ROASTED COFFEE. LEVIN BROS. CO., Lindsborg, Kans.
Filed March 21, 1921. Serial No. 145,027. PUBLISHED SEPTEMBER 6, 1921.

149,986. AN EXTRACT OF HOPS AND MALT FOR PREPARING SOFT DRINKS. ROBERT E. LEYENDECKER, New York, N. Y., assignor to The Arabo Co. Inc., New York, N. Y., a Corporation of New York.
Filed January 23, 1921. Serial No. 142,626. PUBLISHED AUGUST 16, 1921.

149,987. AUTO-VARNISH; AUTO DRI MIST, (A POLISH;) CEDAR FLOOR POLISH; DUCK BACK WAX, (A POLISH;) PAINT, READY MIXED. EDWARD K. LINCOLN, New York, N. Y.
Filed March 16, 1921. Serial No. 144,819. PUBLISHED AUGUST 16, 1921.

149,988. NON-ALCOHOLIC BEVERAGE SOLD AS SOFT DRINKS. GEORGE U. LIPPINCOTT, Chicago, Ill.
Filed April 25, 1921. Serial No. 146,718. PUBLISHED AUGUST 30, 1921.

149,989. CANDIES. LOFT INCORPORATED, New York, N. Y.
Filed May 23, 1921. Serial No. 148,081. PUBLISHED SEPTEMBER 6, 1921.

149,990. CHEMICAL COMPOUNDS FOR CERTAIN NAMED USES. JAS. H. LONGSHORE, Watseka, Ill., assignor to Continental Chemical Corporation, Watseka, Ill.
Filed November 3, 1919. Serial No. 124,485. PUBLISHED AUGUST 16, 1921.

149,991. MACARONI. LOPEZ & CO., Philadelphia, Pa.
Filed March 18, 1921. Serial No. 144,923. PUBLISHED SEPTEMBER 13, 1921.

149,992. MALTLESS, NON-CEREAL BEVERAGES SOLD AS SOFT DRINKS. LOS ANGELES ICE & COLD STORAGE COMPANY, Los Angeles, Calif.
Filed July 18, 1921. Serial No. 150,545. PUBLISHED SEPTEMBER 13, 1921.

149,993. A PRESERVATIVE CLEANER-POLISH AND RESTORATIVE FOR VARNISHED AND ENAMELED SURFACES. R. V. LULL, Ithaca, N. Y.
Filed May 9, 1921. Serial No. 147,433. PUBLISHED SEPTEMBER 6, 1921.

149,994. ASTHMATIC PAPERS AND CIGARETTES NOT CONTAINING TOBACCO AND BEING MEDICATED PREPARATIONS FOR HUMAN USE. LUNDY, WILSON & COMPANY LIMITED, London, England.
Filed January 8, 1920. Serial No. 126,989. PUBLISHED AUGUST 2, 1921.

149,995. HAND-DRAWN EXPRESS-WAGONS, NOT INCLUDING TOYS. MARY E. LYNN, Washington, D. C.
Filed January 15, 1921. Serial No. 142,292. PUBLISHED AUGUST 16, 1921.

149,996. COAL. D. E. MCMILLAN & BRO., Chicago, Ill.
Filed April 4, 1921. Serial No. 145,700. PUBLISHED AUGUST 16, 1921.

149,997. SEASONINGS FOR IMPROVING SOUPS, SAUCES, AND GRAVIES; SOUPS, CONSOMMÉ, BOUILLON, SAUCES, AND GRAVIES. THE MAGGI CO., Kemptthal, Switzerland.
Filed April 29, 1921. Serial No. 146,974. PUBLISHED AUGUST 16, 1921.

149,998. SEASONINGS FOR IMPROVING SOUPS, SAUCES, AND GRAVIES; SOUPS, CONSOMMÉ, BOUILLON, SAUCES, AND GRAVIES. THE MAGGI CO., Kemptthal, Switzerland.
Filed April 29, 1921. Serial No. 146,975. PUBLISHED AUGUST 16, 1921.

149,999. CERTAIN CUTLERY AND TABLE FLATWARE AND NUTCRACKERS. MAPPIN & WEBB LIMITED, London and Sheffield, England.
Filed February 19, 1921. Serial No. 143,825. PUBLISHED AUGUST 30, 1921.

150,000. HANDLES FOR KNIVES AND FORKS FOR TABLE USE. MAPPIN & WEBB LIMITED, London and Sheffield, England.
Filed May 11, 1921. Serial No. 147,569. PUBLISHED AUGUST 16, 1921.

150,001. AN ANTISEPTIC, GERMICIDE, AND MEDICINAL TREATMENT FOR PYORRHEA. JOHN D. MASON, Chicago, Ill.
Filed March 10, 1921. Serial No. 144,585. PUBLISHED SEPTEMBER 20, 1921.

150,002. LIVER-TONIC. OTTO MAUSERT, San Francisco, Calif.
Filed November 29, 1920. Serial No. 140,395. PUBLISHED JULY 26, 1921.

150,003. FOOT-PROPELLED TOY VEHICLES FOR CHILDREN. A. MECKY COMPANY, Philadelphia, Pa.
Filed March 11, 1921. Serial No. 144,630. PUBLISHED AUGUST 30, 1921.

150,004. MECHANICAL DOLLS. FLORENCE B. MERRIAM, Chicago, Ill.
Filed December 31, 1920. Serial No. 141,730. PUBLISHED AUGUST 30, 1921.

150,005. INFANTS' SLEEPING-GARMENTS. MERIT BABY WEAR COMPANY, New York, N. Y.
Filed March 14, 1921. Serial No. 144,732. PUBLISHED AUGUST 23, 1921.

150,006. FERTILIZERS. THE MICHIGAN HUMUS & CHEMICAL COMPANY, Chassell and Klingville, Mich.
Filed May 4, 1921. Serial No. 147,498. PUBLISHED AUGUST 23, 1921.

150,007. GOLF-BALLS. THE MIDLAND RUBBER CO. LTD., Birmingham, England.
Filed February 25, 1921. Serial No. 144,032. PUBLISHED AUGUST 30, 1921.

150,008. COTTON, SILK, LINEN GOODS, AND MIXTURES OF SAME IN THE PIECE. JACOB MILLER SONS & CO., Philadelphia, Pa.
Filed June 18, 1921. Serial No. 149,340. PUBLISHED SEPTEMBER 6, 1921.

150,009. COTTON SHEETING, SHEETS, AND PILLOW-CASES. THE MILLER & HADLEY COMPANY, Toledo, Ohio.
Filed March 21, 1921. Serial No. 145,080. PUBLISHED SEPTEMBER 6, 1921.

150,010. A LINIMENT FOR THE RELIEF OF PAIN. JOHN WINGFIELD MITCHELL, Paso Robles, Calif., assignor to U. F. Kester, Paso Robles, Calif.
Filed November 13, 1920. Serial No. 139,628. PUBLISHED AUGUST 9, 1921.

150,011. COFFEE. MOHLER BROS. COFFEE COMPANY, Hattiesburg, Miss.
Filed June 1, 1921. Serial No. 148,501. PUBLISHED SEPTEMBER 6, 1921.

150,012. WHIST SCORE-CARD. MARIAN MOIR, Burlington, Iowa.
Filed April 20, 1921. Serial No. 146,449. PUBLISHED AUGUST 30, 1921.

150,013. POTATOES, (BAGGED IN THEIR NATURAL STATE.) MONMOUTH COUNTY FARMERS' EXCHANGE, Freehold, N. J.
Filed May 6, 1921. Serial No. 147,801. PUBLISHED AUGUST 16, 1921.

150,014. WOVEN ROMPER-CLOTHS, PIECE GOODS. WALTON N. MOORE DRY GOODS CO., San Francisco, Calif.
Filed February 21, 1921. Serial No. 143,873. PUBLISHED SEPTEMBER 6, 1921.

150,015. WARMING-CLOSETS, STEAM-TABLES, COFFEE-URNS, VEGETABLE-STEAMERS; AND CERTAIN KETTLES AND BROILERS. MORANDI-PROCTOR COMPANY, Boston, Mass.
Filed March 14, 1921. Serial No. 144,783. PUBLISHED AUGUST 30, 1921.

150,016. BACON. JOHN MORRELL & COMPANY, Ottumwa, Iowa.
Filed May 7, 1921. Serial No. 147,868. PUBLISHED AUGUST 16, 1921.

150,017. CERTAIN NAMED TABLE-LINENS, HANDKERCHIEFS, TOWELS, BEDSPREADS, &c. MORTON SUNDOUR FABRICS LD., Dentonhill, Carlisle, England.
Filed May 4, 1921. Serial No. 147,204. PUBLISHED AUGUST 16, 1921.

150,018. LINEN, HEMP, SILK, WOOL, AND WORSTED PIECE GOODS, CARPETS, RUGS, MATS, AND MATTING. MORTON SUNDOUR FABRICS LD., Dentonhill Carlisle, England.
Filed May 4, 1921. Serial No. 147,206. PUBLISHED AUGUST 16, 1921.

150,019. READY-MIXED PAINTS, VARNISHES, AND PAINT ENAMELS. MUTUAL PAINT COMPANY, St. Paul, Minn.
Filed November 28, 1920. Serial No. 140,047. PUBLISHED SEPTEMBER 13, 1921.

150,020. ELASTIC BRAIDS. THE NARROW FABRIC CO., West Reading borough, near Reading, Pa.
Filed June 14, 1921. Serial No. 149,144. PUBLISHED SEPTEMBER 13, 1921.

150,021. TOILET SOAP AND SHAVING-SOAP. NATHAN & CIE. LABORATORIES CADUM, Courbevoie, France.
Filed June 16, 1921. Serial No. 149,237. PUBLISHED SEPTEMBER 6, 1921.

150,022. BREAD. NATIONAL BAKING COMPANY, Seattle, Wash.
Filed February 24, 1921. Serial No. 143,904. PUBLISHED SEPTEMBER 13, 1921.

150,023. CORRESPONDENCE-ENVELOPS. NATIONAL CHECKING COMPANY, St. Paul, Minn.
Filed April 20, 1921. Serial No. 146,457. PUBLISHED AUGUST 16, 1921.

150,024. HAIR-NETS. NATIONAL TRADING COMPANY, Chicago, Ill.
Filed November 12, 1920. Serial No. 139,588. PUBLISHED SEPTEMBER 6, 1921.

150,025. AN AUTOMOBILE-POLISH. NAVAJO LABORATORIES, Inc., Casper, Wyo.
Filed April 20, 1921. Serial No. 146,459. PUBLISHED AUGUST 16, 1921.

150,026. NON-ALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. HARRY H. NELSON, Elmira, N. Y.
Filed March 16, 1921. Serial No. 144,832. PUBLISHED AUGUST 16, 1921.

150,027. DYES. NEWPORT CHEMICAL WORKS, INCORPORATED, Passaic, N. J.
Filed December 7, 1920. Serial No. 140,739. PUBLISHED AUGUST 23, 1921.

150,028. DOLLS. NOTASEMB HOSIERY COMPANY, Philadelphia, Pa.
Filed April 15, 1921. Serial No. 146,226. PUBLISHED AUGUST 30, 1921.

150,029. DOLLS. NOTASEMB HOSIERY COMPANY, Philadelphia, Pa.
Filed March 28, 1921. Serial No. 145,355. PUBLISHED AUGUST 30, 1921.

150,030. TWO, THREE, OR FOUR WHEELED TOY COASTER. THE NOVELTY PRODUCTS COMPANY, Berkeley, Calif.
Filed March 1, 1921. Serial No. 144,198. PUBLISHED SEPTEMBER 6, 1921.

150,031. A CLEANSING PREPARATION FOR GLASS, METAL, CHINA, AND JEWELRY. NORTH SILVER CO., Burkeville, Va.
Filed June 2, 1921. Serial No. 143,504. PUBLISHED SEPTEMBER 13, 1921.

150,032. READY-MIXED PAINT AND LIQUID WATERPROOF COATINGS OF A PAINTLIKE NATURE. EUGENE R. ODEN, San Francisco, Calif.
Filed January 31, 1921. Serial No. 143,009. PUBLISHED AUGUST 16, 1921.

150,033. READY-MIXED PAINT AND WATERPROOF COATINGS OF A PAINTLIKE NATURE. EUGENE R. ODEN, San Francisco, Calif.
Filed April 4, 1921. Serial No. 142,702. PUBLISHED SEPTEMBER 6, 1921.

150,034. METAL CASTINGS. THE OHIO STEEL FOUNDRY COMPANY, Lima, Ohio.
Filed April 23, 1921. Serial No. 146,731. PUBLISHED SEPTEMBER 6, 1921.

150,035. MECHANICALLY-OPERATED TRAFFIC-SIGNALS FOR VEHICLES. V. OLIVER, INC., Philadelphia, Pa.
Filed March 17, 1921. Serial No. 144,871. PUBLISHED AUGUST 30, 1921.

150,036. AUTOMOBILE AND FURNITURE POLISH. JAMES W. OLTS, Oakland, Calif.
Filed June 10, 1920. Serial No. 138,656. PUBLISHED AUGUST 16, 1921.

150,037. NON-ALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. ORANGE SURPRISE SYRUP & BOTTLING CO., Morristown, N. J.
Filed March 18, 1921. Serial No. 144,834. PUBLISHED AUGUST 16, 1921.

150,038. CERTAIN NAMED MALTLESS, NON-ALCOHOLIC, NON-CEREAL BEVERAGES SOLD AS SOFT DRINKS. OREGON GROWERS COOPERATIVE ASSN., Salem, Oreg.
Filed April 22, 1921. Serial No. 146,545. PUBLISHED AUGUST 16, 1921.

150,039. CERTAIN NAMED MALTLESS, NON-ALCOHOLIC, NON-CEREAL BEVERAGES SOLD AS SOFT DRINKS. OREGON GROWERS COOPERATIVE ASSN., Salem, Oreg.
Filed April 22, 1921. Serial No. 146,588. PUBLISHED AUGUST 16, 1921.

150,040. A MEDICAL COMPOUND, SPECIFICALLY PEPSIN TABLETS, FOR RELIEF OF INDIGESTION, CONSTIPATION, GENERAL DEBILITY, FLATULENCE, AND SIMILAR DISORDERS. THE ORIUM COMPANY, St. Louis, Mo.
Filed April 19, 1920. Serial No. 131,348. PUBLISHED AUGUST 30, 1921.

150,041. A CERTAIN NAMED MEDICINAL PREPARATION. THE ORIUM COMPANY, St. Louis, Mo.
Filed April 25, 1921. Serial No. 146,730. PUBLISHED AUGUST 16, 1921.

150,042. A CERTAIN NAMED MEDICINAL PREPARATION. B. L. PALLEYNEOH, Brooklyn, N. Y.
Filed March 1, 1921. Serial No. 144,201. PUBLISHED JULY 26, 1921.

150,043. OINTMENT FOR ERUPTION OF SKIN, SUCH AS SCALD-HEAD, SALT-RHEUM, AND ECZEMA. OSCAR B. PALMER, Cleveland, Ohio.
Filed April 4, 1921. Serial No. 145,704. PUBLISHED AUGUST 23, 1921.

150,044. PAINT ENAMELS. PATEK BROTHERS, Milwaukee, Wis.
Filed March 14, 1921. Serial No. 144,741. PUBLISHED AUGUST 16, 1921.

150,045. A LIQUID COMPOUND FOR TOILET USE. JOHN PATERSON & CO., LTD., Glasgow, Scotland.
Filed December 23, 1919. Serial No. 130,332. PUBLISHED AUGUST 23, 1921.

150,046. LIQUID INSECTICIDES. JOHN PATERSON & CO., LTD., Glasgow, Scotland.
Filed December 23, 1919. Serial No. 128,333. PUBLISHED AUGUST 23, 1921.

150,047. HAMS, BACON, AND LARD. PATRICK-YOUNG CO., Richmond, Va.
Filed September 8, 1920. Serial No. 136,382. PUBLISHED AUGUST 9, 1921.

150,048. A NON-INTOXICATING, MALTLESS, NON-CEREAL BEVERAGE SOLD AS A SOFT DRINK. PEARL CITY FRUIT COMPANY, LIMITED, Honolulu, Hawaii.
Filed January 10, 1921. Serial No. 142,450. PUBLISHED AUGUST 16, 1921.

150,049. SNAP FASTENERS. PENN RIVET CORPORATION, Philadelphia, Pa.
Filed August 2, 1921. Serial No. 151,295. PUBLISHED SEPTEMBER 13, 1921.

150,050. SAFETY-PINS. PENN RIVET CORPORATION, Philadelphia, Pa.
Filed August 2, 1921. Serial No. 151,296. PUBLISHED SEPTEMBER 13, 1921.

150,051. SNAP-FASTENERS. PENN RIVET CORPORATION, Philadelphia, Pa.
Filed August 4, 1921. Serial No. 151,375. PUBLISHED SEPTEMBER 13, 1921.

150,052. SAFETY-PINS. PENN RIVET CORPORATION, Philadelphia, Pa.
Filed August 4, 1921. Serial No. 151,376. PUBLISHED SEPTEMBER 13, 1921.

150,053. A CERTAIN NAMED TOILET PREPARATION. EVELYN I. PETERSEN, Oakland, Calif.
Filed March 19, 1921. Serial No. 144,922. PUBLISHED SEPTEMBER 20, 1921.

150,054. CIGARETTE PAPERS AND TUBES FOR CIGARETTES. CHARLES E. PFEIFFER, Paris, France.
Filed February 26, 1920. Serial No. 128,806. PUBLISHED JUNE 21, 1921.

150,055. MEN'S, WOMEN'S, AND CHILDREN'S BOOTS, SHOES AND SLIPPERS. THOMAS G. PLANT COMPANY, Boston, Mass.
Filed February 23, 1921. Serial No. 143,049. PUBLISHED JULY 5, 1921.

150,056. ELECTRIC-LIGHTING FIXTURES. RAY C. PLATT, Minneapolis, Minn.
Filed April 8, 1921. Serial No. 145,913. PUBLISHED AUGUST 16, 1921.

150,057. PATCHING-CEMENT. PURE C PLASTERS, Hamilton, Ohio, assignor to Darn E. Z. Laboratories.
Filed January 26, 1921. Serial No. 143,909. PUBLISHED AUGUST 23, 1921.

150,058. STEEL BILLETS, BARS, FORGINGS AND DISKS. POLDI STEEL CORPORATION OF AMERICA, New York, N. Y.
Filed April 19, 1921. Serial No. 146,392. PUBLISHED SEPTEMBER 6, 1921.

150,059. STONE-CUTTING MACHINES. PULLARD MACHINERY COMPANY, INCORPORATED, Niagara Falls, N. Y.
Filed May 5, 1921. Serial No. 147,[illegible]. PUBLISHED AUGUST 16, 1921.

150,060. COASTER-SLEDS. GRANT E. [illegible], Clinton, Ill.
Filed January 26, 1921. Serial No. 142,783. PUBLISHED AUGUST 30, 1921.

150,061. A HAIR-PRODUCER. MAE CAESAR PORTER, Dallas, Tex.
Filed June 7, 1920. Serial No. 133,426. PUBLISHED MAY 24, 1921.

150,062. CERTAIN MACHINES FOR TREATING FRUIT AND VEGETABLES, AND OTHER MACHINERY. FRENIER MACHINERY COMPANY, San Francisco, Calif.
Filed May 11, 1921. Serial No. 147,571. PUBLISHED AUGUST 16, 1921.

150,063. LAUNDRY BLUE. J. L. PRESCOTT COMPANY, New York, N. Y.
Filed April 8, 1921. Serial No. 145,917. PUBLISHED AUGUST 2, 1921.

150,064. LEATHER PACKINGS. HORACE G. PRESTON COMPANY, Detroit, Mich.
Filed April 11, 1921. Serial No. 146,012. PUBLISHED JULY 19, 1921.

150,065. WATER-DEFLECTING DRESSING FOR WINDSHIELDS. GEORGE H. PRIDDY, Huntington, W. Va.
Filed January 22, 1921, Serial No. 142,669. PUBLISHED AUGUST 23, 1921.

150,066. A NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGE SOLD AS A SOFT DRINK. GEORGE N. PROCTOR, Washington, D. C.
Filed April 30, 1921. Serial No. 147,044. PUBLISHED AUGUST 16, 1921.

150,067. OLEOMARGARIN. THE PURE FOOD SPECIALTIES COMPANY, Toledo, Ohio.
Filed December 13, 1920. Serial No. 141,020. PUBLISHED AUGUST 16, 1921.

150,068. A WOOD POLISH FOR FURNITURE, FLOORS, OR PAINTED SURFACES GENERALLY. THE PURITAN DRUG MFG. CO., Columbus, Ohio.
Filed April 23, 1921. Serial No. 146,653. PUBLISHED AUGUST 30, 1921.

150,069. A MALTLESS, NON-ALCOHOLIC BEVERAGE SOLD AS A SOFT DRINK. THE QUEEN CITY BOTTLING COMPANY, Cincinnati, Ohio.
Filed March 30, 1921. Serial No. 145,475. PUBLISHED AUGUST 30, 1921.

150,070. CERTAIN BAKERS' MACHINERY AND SPEED-CHANGING MIXING-MACHINES FOR HOTEL AND KITCHEN USE. READ MACHINERY CO., York, Pa.
Filed March 10, 1921. Serial No. 144,588. PUBLISHED AUGUST 23, 1921.

150,071. A MEDICINE FOR USE IN THE TREATMENT OF INDIGESTION AND DYSPEPSIA. REDHILL MFG. CO., Pittsburgh, Pa.
Filed November 13, 1920. Serial No. 139,680. PUBLISHED JULY 26, 1921.

150,072. INSECT-POWDER. REGAL MANUFACTURING CO., Kansas City, Mo.
Filed April 27, 1921. Serial No. 146,846. PUBLISHED AUGUST 16, 1921.

150,073. KNIT AND WOVEN UNDERWEAR, HOSIERY, BATHING-SUITS, AND SWEATERS. ROBERT REIS & CO., New York, N. Y.
Filed June 8, 1920. Serial No. 133,423. PUBLISHED AUGUST 17, 1920.

150,074. MINNOW-NETS. THE W. H. REISNER MANUFACTURING COMPANY, Hagerstown, Md.
Filed April 9, 1921. Serial No. 145,970. PUBLISHED AUGUST 30, 1921.

150,075. ENAMEL PAINTS. REMIEN & KUHNERT CO., Chicago, Ill.
Filed March 11, 1921. Serial No. 144,639. PUBLISHED AUGUST 30, 1921.

150,076. COFFEE. ISAAC D. RICHHEIMER, New York, N. Y.
Filed June 2, 1921. Serial No. 146,552. PUBLISHED AUGUST 30, 1921.

150,077. BROOMS. RICHMOND BROOM COMPANY, INC., Richmond, Va.
Filed February 18, 1921. Serial No. 143,786. PUBLISHED AUGUST 16, 1921.

150,078. A GAME-BALL SIMILAR TO AN INDOOR-BASEBALL OR PLAYGROUND BALL. LEWIS J. ROSER, Minneapolis, Minn.
Filed March 5, 1921. Serial No. 144,852. PUBLISHED SEPTEMBER 6, 1921.

150,079. A GAME-BALL SIMILAR TO AN INDOOR BASEBALL OR PLAYGROUND BALL. LEWIS J. ROSER, Minneapolis, Minn.
Filed March 5, 1921. Serial No. 144,353. PUBLISHED SEPTEMBER 6, 1921.

150,080. NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. V. OTIS ROBERTSON, Boston, Mass.
Filed January 20, 1921. Serial No. 142,807. PUBLISHED AUGUST 16, 1921.

150,081. SPANISH PAPRIKA. VALENTIN RODRIGUEZ, New York, N. Y.
Filed March 25, 1921. Serial No. 145,231. PUBLISHED AUGUST 30, 1921.

150,082. SPANISH PAPRIKA. VALENTIN RODRIGUEZ, New York, N. Y.
Filed March 25, 1921. Serial No. 145,232. PUBLISHED AUGUST 30, 1921.

150,083. BED-SPRINGS, MATTRESSES, AND PILLOWS. CHARLES P. ROGERS & CO., INC., New York, N. Y.
Filed April 18, 1921. Serial No. 146,335. PUBLISHED AUGUST 23, 1921.

150,084. PUMPS, COMPRISING FARM, ROTARY, WELL, LUBRICATING, PUMPS IN GENERAL, AND PARTS THEREOF. GEO. D. ROPER CORPORATION, Rockford, Ill.
Filed April 21, 1921. Serial No. 146,496. PUBLISHED AUGUST 30, 1921.

150,085. GRAPE-JUICE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. ALCOHOL BY VOLUME, SOLD AS A SOFT DRINK. RUBYHILL VINEYARD CO., Pleasanton, Calif.
Filed February 15, 1921. Serial No. 143,618. PUBLISHED AUGUST 16, 1921.

150,086. A COMPOUND FOR PROMOTING THE GROWTH OF THE HAIR. JOSEPHINE C. RUDD, Richmond, Va.
Filed March 2, 1920. Serial No. 129,123. PUBLISHED AUGUST 9, 1921.

150,087. MOTOR-LUBRICATING OIL. RUSK OIL CO. OF PHILADELPHIA, PA., Philadelphia, Pa.
Filed December 2, 1920. Serial No. 140,544. PUBLISHED SEPTEMBER 27, 1921.

150,088. LUBRICATING-GREASES. RUSK OIL CO. OF OF PHILADELPHIA, PA., Philadelphia, Pa.
Filed December 2, 1920. Serial No. 140,545. PUBLISHED OCTOBER 4, 1921.

150,089. MOTOR-OIL. RUSK OIL CO. OF PHILADELPHIA, PA., Philadelphia, Pa.
Filed December 2, 1920. Serial No. 140,546. PUBLISHED SEPTEMBER 13, 1921.

150,090. DRESS-BELTING. THE RUSSELL MANUFACTURING CO., Middletown, Conn.
Filed August 2, 1921. Serial No. 151,291. PUBLISHED SEPTEMBER 13, 1921.

150,091. NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. BENJAMIN FRANKLIN RUTH, Reading, Pa.
Filed April 21, 1921. Serial No. 146,500. PUBLISHED AUGUST 30, 1921.

150,092. MEDICINAL PREPARATIONS FOR THE TREATMENT OF AFFECTIONS OF THE EYE. WILLIAM H. RUTLAND, Altus, Okla.
Filed April 23, 1919. Serial No. 117,783. PUBLISHED AUGUST 23, 1921.

150,093. SILKS IN THE PIECE. I. SACKS & SONS, New York, N. Y.
Filed June 11, 1921. Serial No. 149,930. PUBLISHED SEPTEMBER 6, 1921.

150,094. PREPARED PAINTS, VARNISHES, AND PAINT ENAMELS. THE SAILORS AND LAMB COMPANY, Cleveland, Ohio.
Filed February 17, 1921. Serial No. 143,713. PUBLISHED AUGUST 16, 1921.

150,095. PAINTERS' SUPPLIES, PREPARED PAINTS, VARNISHES, AND PAINT ENAMELS. THE SAILORS AND LAMB COMPANY, Cleveland, Ohio.
Filed February 17, 1921. Serial No. 143,717. PUBLISHED AUGUST 16, 1921.

150,096. HAIR-NETS. SAMETAG & HILDEN BROS., Inc., New York, N. Y.
Filed June 4, 1921. Serial No. 149,676. PUBLISHED AUGUST 30, 1921.

150,097. BASEBALLS. SAN ANTONIO DRUG CO., San Antonio, Tex.
Filed January 18, 1921. Serial No. 143,422. PUBLISHED SEPTEMBER 6, 1921.

150,098. BEARINGS. WILLIAM L. SANDAGE, Indianapolis, Ind.
Filed May 12, 1921. Serial No. 147,643. PUBLISHED AUGUST 16, 1921.

150,099. MATTRESSES. SANITARY MATTRESS COMPANY, Minneapolis, Minn.
Filed October 21, 1920. Serial No. 138,641. PUBLISHED AUGUST 23, 1921.

150,100. DISINFECTANTS, INSECTICIDES, AND DEODORANTS. THE SANITAS COMPANY, INC., Jersey City, N. J., and Brooklyn, N. Y.
Filed April 25, 1921. Serial No. 146,743. PUBLISHED AUGUST 16, 1921.

150,101. DISINFECTANTS, INSECTICIDES, AND DEODORANTS. THE SANITAS COMPANY, INC., Jersey City, N. J., and Brooklyn, N. Y.
Filed April 25, 1921. Serial No. 146,744. PUBLISHED AUGUST 16, 1921.

150,102. BED-SPRINGS. HENRY SCHOMER COMPANY, Chicago, Ill.
Filed April 9, 1921. Serial No. 145,965. PUBLISHED AUGUST 23, 1921.

150,103. CANNED FRUITS AND CANNED VEGETABLES. MAX SCHUCKL, San Francisco, Calif.
Filed May 9, 1921. Serial No. 147,468. PUBLISHED AUGUST 16, 1921.

150,104. NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. SERVICE CORP., Bakersfield, Calif.
Filed April 5, 1921. Serial No. 145,756. PUBLISHED AUGUST 16, 1921.

150,105. NON-ALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. SERVICE CORP., Bakersfield, Calif.
Filed April 5, 1921. Serial No. 145,757. PUBLISHED AUGUST 16, 1921.

150,106. THEATRICAL SCENERY AND WINDOW BACKGROUNDS. SERVICE STUDIOS, Chicago, Ill.
Filed June 11, 1921. Serial No. 149,085. PUBLISHED SEPTEMBER 13, 1921.

150,107. PAINTS, (READY-MIXED AND PASTE,) FINISHES, ENAMELS, JAPANS, VARNISHES, STAINS, AND FILLERS. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio.
Filed May 2, 1921. Serial No. 147,136. PUBLISHED AUGUST 30, 1921.

150,108. COLD-WATER PAINTS. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio.
Filed May 9, 1921. Serial No. 147,460. PUBLISHED AUGUST 30, 1921.

150,109. PETROLATUMS, MINERAL JELLIES AND MINERAL OILS FOR MEDICINAL AND PHARMACEUTICAL USES. SHERWOOD PETROLEUM CO., INC., Brooklyn, N. Y.
Filed April 2, 1921. Serial No. 145,657. PUBLISHED AUGUST 30, 1921.

150,110. SHOE-POLISHES. RED-MILL PRODUCTS CORPORATION, Hallsville, N. J.
Filed June 16, 1921. Serial No. 149,247. PUBLISHED SEPTEMBER 6, 1921.

150,111. RUFFLINGS AND PLAITINGS FOR NECKWEAR AND TRIMMINGS. G. SILBERMAN & CO., New York, N. Y.
Filed June 20, 1921. Serial No. 149,505. PUBLISHED SEPTEMBER 13, 1921.

150,112. CERTAIN NAMED CHEMICAL, MEDICINAL, AND TOILET PREPARATIONS. C. D. SMITH DRUG CO., St. Joseph, Mo.
Filed December 7, 1920. Serial No. 140,758. PUBLISHED JULY 12, 1921.

150,113. A FURFURAMID CHEMICAL PRODUCT AS WELL AS ALL ITS COMPOUNDS. SOCIÉTÉ RICARD ALLENET & CIE., Melle, France.
Filed June 21, 1920. Serial No. 133,982. PUBLISHED AUGUST 16, 1921.

150,114. VITAMIN PREPARATIONS, NERVE-TONICS, MALT EXTRACTS, AND DIETETIC PATENT FOODS FOR MEDICINAL USES. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland.
Filed November 8, 1920. Serial No. 139,377. PUBLISHED AUGUST 9, 1921.

150,115. VITAMIN PREPARATIONS, NERVE-TONICS, MALT EXTRACTS, AND DIETETIC PATENT FOODS FOR MEDICINAL USES. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland.
Filed November 8, 1920. Serial No. 139,378. PUBLISHED AUGUST 9, 1921.

150,116. COAL-TAR COLORS. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland.
Filed August 6, 1920. Serial No. 135,870. PUBLISHED AUGUST 23, 1921.

150,117. MATTRESSES, IRON AND BRASS BEDS, AND BED-SPRINGS. SOUTHERN SPRING BED CO., Atlanta, Ga.
Filed November 5, 1920. Serial No. 139,233. PUBLISHED SEPTEMBER 6, 1921.

150,118. PISTON-RINGS. SEYBOGEAL MANUFACTURING COMPANY, St. Louis, Mo.
Filed June 17, 1921. Serial No. 149,297. PUBLISHED SEPTEMBER 13, 1921.

150,119. BOOTS AND SHOES OF ALL KINDS OF LEATHER AND CANVAS. STACY-ADAMS COMPANY, Brockton, Mass.
Filed March 19, 1921. Serial No. 144,990. PUBLISHED JULY 19, 1921.

150,120. BREAD, BISCUITS, AND CAKES. HARRY STAHL, Seattle, Wash.
Filed April 4, 1921. Serial No. 145,721. PUBLISHED AUGUST 16, 1921.

150,121. FLUSHING-OIL. STANDARD OIL COMPANY, San Francisco, Calif.
Filed April 9, 1921. Serial No. 145,977. PUBLISHED SEPTEMBER 6, 1921.

150,122. A MINERAL OIL PRIMARILY USED IN THE PREPARATION OF COLD-CREAMS. STANDARD OIL COMPANY, Bayonne, N. J.
Filed June 2, 1921. Serial No. 148,563. PUBLISHED SEPTEMBER 20, 1921.

150,123. PETROLEUM PRODUCTS FOR LUBRICATING, ILLUMINATING, HEATING, AND POWER PURPOSES. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y.
Filed July 21, 1921. Serial No. 150,776. PUBLISHED SEPTEMBER 20, 1921.

150,124. NATURAL MINERAL WATER. STATE OF NEW YORK, Saratoga Springs, N. Y.
Filed July 28, 1921. Serial No. 151,066. PUBLISHED SEPTEMBER 13, 1921.

150,125. WATERPROOF LIQUID FOR CERTAIN NAMED FABRICS. STATITE WATERPROOFING PRODUCTS CO. INC., Wilmington, Del., and New York, N. Y.
Filed June 18, 1921. Serial No. 149,359. PUBLISHED SEPTEMBER 20, 1921.

150,126. COTTON-BATTING. THE STEARNS & FOSTER COMPANY, Lockland, Ohio.
Filed August 4, 1921. Serial No 151,384. PUBLISHED SEPTEMBER 13, 1921.

150,127. COTTON-BATTING. THE STEARNS & FOSTER COMPANY, Lockland, Ohio.
Filed August 4, 1921. Serial No. 151,385. PUBLISHED SEPTEMBER 13, 1921.

150,128. COTTON-BATTING. THE STEARNS & FOSTER COMPANY, Lockland, Ohio.
Filed August 4, 1921. Serial No. 151,386. PUBLISHED SEPTEMBER 13, 1921.

150,129. COTTON-BATTING. THE STEARNS & FOSTER COMPANY, Lockland, Ohio.
Filed August 4, 1921. Serial No. 151,389. PUBLISHED SEPTEMBER 13, 1921.

150,130. COTTON-BATTING. THE STEARNS & FOSTER COMPANY, Lockland, Ohio.
Filed August 4, 1921. Serial No. 151,390. PUBLISHED SEPTEMBER 13, 1921.

150,131. COTTON-BATTING. THE STEARNS & FOSTER COMPANY, Lockland, Ohio.
Filed August 4, 1921. Serial No. 151,391. PUBLISHED SEPTEMBER 13, 1921.

150,132. COTTON-BATTING. THE STEARNS & FOSTER COMPANY, Lockland, Ohio.
Filed August 4, 1921. Serial No. 151,392. PUBLISHED SEPTEMBER 13, 1921.

150,133. TRACKLESS TROLLEY AMUSEMENT-VEHICLE. JNO. J. STOCK, Erdenheim, Pa.
Filed March 3, 1921. Serial No. 144,301. PUBLISHED SEPTEMBER 6, 1921.

150,134. LYE. THE STONEWARE CORPORATION, New York, N. Y.
Filed May 21, 1920. Serial No. 132,760. PUBLISHED AUGUST 30, 1921.

150,135. BLOUSE-SUITS AND LADIES' AND CHILDREN'S BLOUSES. STRAUS, ROTHE & STRASS, INC., Baltimore, Md.
Filed February 12, 1920. Serial No. 128,329. PUBLISHED JUNE 14, 1921.

150,136. ROOT-BEER. DR. SWETT ROOT BEER INC., Boston, Mass.
Filed June 1, 1921. Serial No. 148,514. PUBLISHED SEPTEMBER 13, 1921.

150,137. A LINIMENT. ALEX SZABO, New York, N. Y.
Filed April 2, 1921. Serial No. 145,656. PUBLISHED AUGUST 30, 1921.

150,138. TURPENTINE SUBSTITUTE. THE TEXAS COMPANY, Houston, Tex., and New York, N. Y.
Filed March 25, 1921. Serial No. 145,241. PUBLISHED AUGUST 16, 1921.

150,139. BOTTLED GINGER-ALE. CHARLES H. THOM, Los Angeles, Calif.
Filed March 1, 1921. Serial No. 144,207. PUBLISHED SEPTEMBER 6, 1921.

150,140. HACKSAW-BLADES. THE HENRY G. THOMPSON & SON COMPANY, New Haven, Conn.
Filed April 6, 1921. Serial No. 145,804. PUBLISHED AUGUST 16, 1921.

150,141. BLUING AND AMMONIA. THE THORO PRODUCTS MFG. CO., Denver, Colo.
Filed October 12, 1920. Serial No. 138,243. PUBLISHED AUGUST 30, 1921.

150,142. PIANO-BENCHES. TONK MANUFACTURING CO., Chicago, Ill.
Filed January 3, 1921. Serial No. 141,813. PUBLISHED AUGUST 23, 1921.

150,143. GOLF-CLUBS. SINCLAIR TOURNEY, New York, N. Y.
Filed May 25, 1921. Serial No. 148,249. PUBLISHED AUGUST 30, 1921.

150,144. EVAPORATED MILK. TRI-STATE MILK PRODUCTS CO., Galena, Ill.
Filed June 3, 1921. Serial No. 148,629. PUBLISHED AUGUST 30, 1921.

150,145. MALT SYRUP USED AS A BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. ALCOHOL. JOSEPH B. TUOR, St. Paul, Minn.
Filed March 24, 1921. Serial No. 145,176. PUBLISHED AUGUST 30, 1921.

150,146. COLLETS AND CERTAIN THREAD-CUTTING TOOLS. UNION TWIST DRILL COMPANY, Athol and Mansfield, Mass.
Filed December 15, 1920. Serial No. 141,146. PUBLISHED AUGUST 23, 1921.

150,147. EVAPORATED MILK, ICE-CREAM, AND POWDERED MILK. UNITED DAIRY ASSOCIATION OF WASHINGTON, Seattle, Wash.
Filed May 9, 1921. Serial No. 147,482. PUBLISHED AUGUST 16, 1921.

150,148. ETHYL ALCOHOL. U. S. INDUSTRIAL ALCOHOL CO., New York, N. Y.
Filed January 19, 1921. Serial No. 142,488. PUBLISHED AUGUST 23, 1921.

150,149. A PINE-OIL PREPARED AND COLORED FOR USE AS A WOOD STAIN AND PRESERVATIVE. VALDOSTA RETORT CO., Valdosta, Ga.
Filed February 23, 1921. Serial No. 143,970. PUBLISHED AUGUST 16, 1921.

150,150. SPANISH PAPRIKA. VALENTIN RODRIGUEZ, New York, N. Y.
Filed March 25, 1921. Serial No. 145,233. PUBLISHED AUGUST 30, 1921.

150,151. FRESH DATES PACKED IN CARTONS. VAN DYK AND REEVES, Brooklyn, N. Y.
Filed February 1, 1921. Serial No. 143,071. PUBLISHED SEPTEMBER 13, 1921.

150,152. SKIN-OINTMENT. VANTEX CHEMICAL COMPANY, Memphis, Tenn., and New York, N. Y.
Filed May 27, 1920. Serial No. 133,032. PUBLISHED AUGUST 23, 1921.

150,153. TONIC FOR DIABETICS. VINO MEDICAL CO. INC., New York, N. Y.
Filed June 11, 1921. Serial No. 149,045. PUBLISHED SEPTEMBER 13, 1921.

150,154. COFFEE. VINSON COFFEE COMPANY, Jackson, Tenn.
Filed May 17, 1921. Serial No. 147,854. PUBLISHED AUGUST 16, 1921.

150,155. AXLES FOR PLEASURE-AUTOMOBILES AND AUTOMOBILE-TRUCKS. VULCAN MOTOR AXLE CORPORATION, Detroit, Mich.
Filed December 4, 1920. Serial No. 140,622. PUBLISHED SEPTEMBER 6, 1921.

150,156. PERFUMES, TOILET WATERS, FACE-LOTION, FACE-POWDER, AND BRILLIANTINE. MARIE MARTHE RICHARD VVE. GRENOVILLE, Asnières, France.
Filed March 24, 1921. Serial No. 145,189. PUBLISHED AUGUST 9, 1921.

150,157. VARIOUS KINDS OF BASKETS. WABASH BASKET COMPANY, Marion, Swayzee, Converse, Bunker Hill, and Somerset, Ind.
Filed March 14, 1921. Serial No. 144,758. PUBLISHED SEPTEMBER 13, 1921.

150,158. POLISH FOR USE ON AUTOMOBILES, FURNITURE, PIANOS, WOODWORK, HARDWOOD FLOORS. L. B. WADE CO., Boston and Lynn, Mass.
Filed December 8, 1920. Serial No. 140,821. PUBLISHED SEPTEMBER 13, 1921.

150,159. NON-ALCOHOLIC, MALTLESS, MINTED LIME BEVERAGE SOLD AS A SOFT DRINK. THE W. T. WAGNER'S SONS CO., Cincinnati, Ohio.
Filed June 14, 1921. Serial No. 149,161. PUBLISHED SEPTEMBER 13, 1921.

150,160. CERTAIN NAMED MEDICINAL PREPARATIONS. THE CHARLES ALFRED WALDOCK COMPANY, INC., Baltimore, Md.
Filed October 9, 1920. Serial No. 138,152. PUBLISHED AUGUST 23, 1921.

150,161. CERTAIN NAMED GERMAN-SILVER FLAT WARE. THE H. WALLACH & SONS MFG. CO., Wallingford, Conn.
Filed March 22, 1921. Serial No. 145,003. PUBLISHED AUGUST 16, 1921.

150,162. CANDY. WANDELL CHOCOLATE COMPANY, INC., Baltimore, Md.
Filed February 2, 1921. Serial No. 143,112. PUBLISHED AUGUST 16, 1921.

150,163. BREAD. WARD BAKING COMPANY, New York, N. Y.
Filed December 1, 1920. Serial No. 140,511. PUBLISHED SEPTEMBER 6, 1921.

150,164. CAKE. WARD BAKING COMPANY, New York, N. Y.
Filed April 2, 1921. Serial No. 145,664. PUBLISHED AUGUST 16, 1921.

150,165. WAXED PAPER. WAXED PRODUCTS COMPANY INC., Brooklyn, N. Y.
Filed April 20, 1921. Serial No. 146,475. PUBLISHED AUGUST 16, 1921.

150,166. WHEAT-FLOUR. WELLS FLOUR MILLING COMPANY, Wells, Minn.
Filed March 26, 1921. Serial No. 145,296. PUBLISHED SEPTEMBER 6, 1921.

150,167. LAUNDRY SOAP. WESTERN SOAP COMPANY, Spokane, Wash.
Filed June 18, 1921. Serial No. 149,367. PUBLISHED SEPTEMBER 6, 1921.

150,168. CERTAIN ENGINES AND MACHINERY. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa.
Filed March 25, 1921. Serial No. 145,240. PUBLISHED AUGUST 23, 1921.

150,169. COTTON PIECE GOODS. JAMES F. WHITE & CO. INC., New York, N. Y.
Filed July 12, 1921. Serial No. 150,297. PUBLISHED AUGUST 30, 1921.

150,170. COTTON PIECE GOODS. JAMES F. WHITE & CO. INC., New York, N. Y.
Filed July 12, 1921. Serial No. 150,298. PUBLISHED AUGUST 30, 1921.

150,171. COTTON PIECE GOODS. JAMES F. WHITE & CO. INC., New York, N. Y.
Filed July 12, 1921. Serial No. 150,299. PUBLISHED AUGUST 30, 1921.

150,172. NATURAL GAS. JOSEPH C. WHITFIELD, Palisades Park, N. J.
Filed April 5, 1921. Serial No. 145,760. PUBLISHED AUGUST 23, 1921.

150,173. INDEX AND BRISTOL BOARDS. WHITING PAPER COMPANY, Holyoke, Mass.
Filed April 1, 1921. Serial No. 145,600. PUBLISHED AUGUST 16, 1921.

150,174. WHEAT-FLOUR. THE WICHITA FLOUR MILLS CO., Wichita, Kans.
Filed April 11, 1921. Serial No. 146,053. PUBLISHED AUGUST 16, 1921.

150,175. CERTAIN HOUSEHOLD TOOLS. WIREWIRE SPRINGS STEEL CORPORATION, Worcester, Mass.
Filed May 2, 1921. Serial No. 147,147. PUBLISHED AUGUST 16, 1921.

150,176. NON-BEVERAGE GRAIN ALCOHOL. THE GEO. WIEDEMANN COMPANY, Newport, Ky.
Filed March 12, 1921. Serial No. 144,868. PUBLISHED AUGUST 23, 1921.

150,177. MALT EXTRACTS. ALBERT WIELICH, New York, N. Y.
Filed December 11, 1920. Serial No. 140,674. PUBLISHED AUGUST 23, 1921.

150,178. A SHAMPOO. WILDROOT CO. INC., Buffalo, N. Y.
Filed April 22, 1920. Serial No. 131,314. PUBLISHED JULY 26, 1921.

150,179. ELASTIC WEBBING. JULIUS WILE SONS & CO., New York, N. Y.
Filed June 16, 1921. Serial No. 149,237. PUBLISHED SEPTEMBER 13, 1921.

150,180. A LIQUID PREPARATION FOR THE REPRODUCTION AND PRESERVATION OF TYPEWRITER-PLATENS. FEDERICK & WILSON, Chicago, Ill.
Filed June 2, 1921. Serial No. 148,626. PUBLISHED SEPTEMBER 13, 1921.

150,181. SOFT-SOAP CLEANSER. JOHN WILSON, Sacramento, Calif.
Filed June 1, 1921. Serial No. 149,521. PUBLISHED SEPTEMBER 13, 1921.

150,182. PREPARATIONS FOR CERTAIN NAMED DISEASES. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y.
Filed July 5, 1919. Serial No. 120,294. PUBLISHED AUGUST 30, 1921.

150,183. DRY AND READY-MIXED PAINTS. WARREN F. WITMAN, Philadelphia, Pa.
Filed February 17, 1921. Serial No. 143,725. PUBLISHED SEPTEMBER 6, 1921.

150,184. SPIRITS OF CAMPHOR. WOLFE-FARRER CO., Omaha, Nebr.
Filed November 8, 1919. Serial No. 124,702. PUBLISHED AUGUST 30, 1921.

150,185. COFFEE. FRED WOLFERMAN GOOD THINGS TO EAT CO., Kansas City, Mo.
Filed April 22, 1921. Serial No. 146,806. PUBLISHED AUGUST 16, 1921.

150,186. NERVE-TONIC. ALVIN C. WOODLEY, Binghamton, N. Y.
Filed April 4, 1921. Serial No. 145,729. PUBLISHED JULY 26, 1921.

150,187. WIRE ROPE FOR GENERAL PURPOSES, HAULING, HOISTING, LOGGING, &c. W. H. WORDEN CO., San Francisco, Calif.
Filed January 12, 1921. Serial No. 142,188. PUBLISHED AUGUST 23, 1921.

150,188. A CERTAIN NAMED MEDICINAL PREPARATION. YORK DRUG STORE, York, S. C.
Filed May 24, 1921. Serial No. 148,188. PUBLISHED AUGUST 23, 1921.

150,189. A NON-INTOXICATING CEREAL MALT BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. (.005) OF ALCOHOL, BY VOLUME. D. G. YUENGLING & SON, INC., Pottsville, Pa.
Filed May 28, 1920. Serial No. 133,075. PUBLISHED AUGUST 30, 1921.

150,190. CHEESE. CHAS. ZUERCHER, Brodhead, Wis.
Filed March 30, 1921. Serial No. 145,486. PUBLISHED AUGUST 16, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (c)].

DECEMBER 27, 1921.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

150,191. (CLASS 37. PAPER AND STATIONERY.) THE CENTRAL OHIO PAPER COMPANY, Columbus, Ohio.
Filed June 28, 1921. Serial No. 149,737.

Security Seal

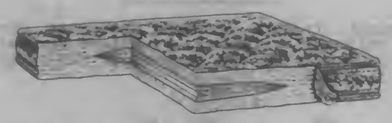
Particular description of goods.—Correspondence-Envelops.
Claims use since October, 1920.

150,192. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) COLGATE & COMPANY, Jersey City, N. J. Filed Oct. 5, 1921. Serial No. 153,756.

BIG BATH

Particular description of goods.—Soaps.
Claims use since December, 1911.

150,193. (CLASS 32. FURNITURE AND UPHOLSTERY.) EMPIRE MATTRESS COMPANY, Chicago, Ill.
Filed Mar. 21, 1921. Serial No. 145,012.



Particular description of goods.—Mattresses.
Claims use since Mar. 31, 1915.

150,194. ((CLASS 32. FURNITURE AND UPHOLSTERY.) EMPIRE MATTRESS COMPANY, Chicago, Ill.
Filed Mar. 21, 1921. Serial No. 145,014.

Centerfilled

Particular description of goods.—Mattresses.
Claims use since Feb. 17, 1914.

150,195. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FITZPATRICK BROS., Chicago, Ill. Filed Oct. 6, 1921. Serial No. 153,799.

PALM SOAP CHIPS

Particular description of goods.—Soap.
Claims use since early part of 1912.

150,196. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FITZPATRICK BROS., Chicago, Ill. Filed Oct. 6, 1921. Serial No. 153,800.

BORAX FLAKE SOAP CHIPS

Particular description of goods.—Soap.
Claims use since early part of 1907.

150,197. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FITZPATRICK BROS., Chicago, Ill. Filed Oct. 6, 1921. Serial No. 153,802.

AMERICAN SOAP FLOUR

Particular description of goods.—Soap.
Claims use since early part of 1907.

150,198. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FITZPATRICK BROS., Chicago, Ill. Filed Oct. 6, 1921. Serial No. 153,804.

NEW YORK SOAP CHIPS

Particular description of goods.—Soap.
Claims use since early part of 1909.

150,199. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FITZPATRICK BROS., Chicago, Ill. Filed Oct. 6, 1921. Serial No. 153,805.

KWALITY SOAP CHIPS

Particular description of goods.—Soap.
Claims use since early part of 1919.

150,200. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. F. GLADDING & CO. INC., South Otselic, N. Y. Filed Oct. 22, 1921. Serial No. 154,442.

GENUINE IRISH LINEN KERRY No 2 BRAND 50 FT. REEL LINE MADE FROM SELECTED IRISH FLAX

Particular description of goods.—Irish Reel Fishing-Lines.
Claims use since Aug. 22, 1912.

150,201. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. F. GLADDING & CO. INC., South Otselic, N. Y. Filed Oct. 22, 1921. Serial No. 154,443.

GENUINE IRISH LINEN GALWAY No 4 BRAND 50 FT. REEL LINE MADE FROM SELECTED IRISH FLAX

Particular description of goods.—Irish-Linen Reel Fishing-Lines.
Claims use since Aug. 22, 1912.

150,202. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FRANK JACKSON CO., Chicago, Ill. Filed Sept. 30, 1921. Serial No. 153,552.

Brazilian

Particular description of goods.—Polish for Leather Shoes.
Claims use since Jan. 1, 1920.

150,203. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KOEHRING MACHINE COMPANY, Milwaukee, Wis., assignors to Koehring Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed June 15, 1921. Serial No. 149,183.

KOEHRING

Particular description of goods.—Concrete Mixers, Concrete Distributing Machines, Loading Skips, Loaders, &c.
Claims use since March, 1907.

150,204. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE LOWE BROTHERS COMPANY, Dayton, Ohio. Filed Oct. 17, 1921. Serial No. 154,[illegible].

MOHAIR TOP FINISH

Particular description of goods.—Auto Top Dressing.
Claims use since Dec. 31, 1915.

150,205. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PRINT-AID COMPANY, Dayton, Ohio. Filed Sept. 16, 1919. Serial No. 122,785.

Noe-Equl

Particular description of goods.—A Cleaner for Removing Dry and Wet Ink from Printing Equipment.
Claims use since Dec. 22, 1916.

150,206. (CLASS 17. TOBACCO PRODUCTS.) EUGENE J. SCHAEFER, Dayton, Ohio, executor of the estate of Joseph J. Schaefer, deceased, doing business as Joseph J. Schaefer. Filed Apr. 29, 1921. Serial No. 146,993.

JANE CABLE

Particular description of goods.—Cigars.
Claims use since Sept. 24, 1906.

150,207. (CLASS 17. TOBACCO PRODUCTS.) R. G. SULLIVAN ESTATE, Manchester, N. H. Filed Oct. 6, 1920. Serial No. 153,025.

DEXTER R. G. SULLIVAN'S

Particular description of goods.—Cigars, Cigarettes, and Manufactured Tobacco.
Claims use since Aug. 1, 1920.

150,208. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ATLANTA BARBERS' SUPPLY CO., Atlanta, Ga. Filed Jan. 13, 1921. Serial No. 142,198.

LILAS DePERSIA

Particular description of goods.—Toilet Water and Perfumes.
Claims use since Jan. 1, 1913.

150,209. (CLASS 12. CONSTRUCTION MATERIALS.) THE GEORGIA MARBLE COMPANY, Tate, Ga. Filed Oct. 18, 1921. Serial No. 154,268.

"Silver Grey"

Particular description of goods.—Marble Cut to Size, Finished Marble, and Cut Stone.
Claims use since July 1, 1914.

LABELS

REGISTERED DECEMBER 27, 1921.

23,836.—*Title.* "PANOLA." (For Wheat Flour.) M. AINSA & SONS, INC., El Paso, Tex. Filed October 10, 1921.

23,837.—*Title:* "LORAIN." (For an Appliance or Attachment for Gas-Stoves.) AMERICAN STOVE COMPANY, St. Louis, Mo. Filed September 9, 1921.

23,838.—*Title:* "BARCALO MATT-REST." (For Mattresses.) BARCALO MANUFACTURING COMPANY, Buffalo, N. Y. Filed September 6, 1921.

23,839.—*Title:* "GAI-IO-DENT." (For an Antiseptic and Astringent Remedy.) CHARLES BARDOS, Jr., New York, N. Y. Filed June 29, 1921.

23,840.—*Title:* "B & B BABY TALC." (For Talcum Powder.) BAUER & BLACK, Chicago, Ill. Filed July 2, 1921.

23,841.—*Title:* "B. B. B. BORINI'S BIRD BLEND." (For a Food Tonic for Cage-Birds.) HENRY L. BORINI, Brooklyn, N. Y. Filed August 17, 1921.

23,842.—*Title:* "TOTEM POLES." (For Cartons or Boxes of Candies.) BROWN & HALEY, Tacoma, Wash. Filed July 29, 1920.

23,843.—*Title:* "BE-TA." (For Food Beverages.) ISRAEL DAVIS, Lawrence, Mass. Filed August 13, 1921.

23,844.—*Title:* "EGG PLANT." (For Package Containing Egg-Plant. G. DI SALVO & A. PATERA, Brooklyn, N. Y. Filed July 8, 1920.

23,845.—*Title:* "LIQUID CEDAR." (For a Liquid Oil Wash or Polish Made Chiefly of Oil of Cedar.) THE EGBERT CHEMICAL COMPANY, Canton, Ohio. Filed April 15, 1921.

23,846.—*Title:* "ROYAL PURPLE PENNYROYAL FEMALE PILLS." (For Boxes Containing a Medicine for Treatment of Delayed Menstruation, for Painful Menses, Relieving Burning and Chafing.) FIRST NATIONAL PHARMACY, Lehighton, Pa. Filed July 22, 1921.

23,847.—*Title:* "BEECH NUT CIGAR." (For Beech Nut Cigars.) FRITSCH & SON, Lancaster, Pa. Filed October 24, 1921.

23,848.—*Title:* "BIG PUFFLETS." (For Breakfast Food.) CHRISTOPH J. GMAEL, Mansfield, Ohio. Filed August 26, 1921.

23,849.—*Title:* "THE BOX THAT STANDS THE KNOCKS." (For Wooden Boxes.) D. M. GOODWILLIE COMPANY, Chicago, Ill. Filed November 10, 1919.

23,850.—*Title:* "J. BAKER HARDTACK." (For Cheese Crackers.) THE GERST AND GERST COMPANY, Cincinnati, Ohio. Filed May 24, 1921.

23,851.—*Title:* "ARIES, STANDARD." (For Gas-Balls.) Jessop Graphite, New York, N. Y. Filed September 9, 1921.

23,852.—*Title:* "WINK THE DRINK." (For Non-Alcoholic Maltine Beverages.) ROBERT HILL, Buffalo, N. Y. Filed September 6, 1921.

23,853.—*Title:* "X X X BRAND." (For Malt Extract.) ANTHONY LONGO, Newark, N. J. Filed July 14, 1921.

23,854.—*Title:* "THE SALVADOR GREAT LIQUID FOR CLEANING FLOORS 8D5." (For Bottles or Demijohns of the Salvador 8D5.) ALFREDO LUCATI, New York, N. Y. Filed November 2, 1921.

23,855.—*Title:* "THE SALVADOR RENOWNED LIQUID FOR WASHING CLOTHES 8D5." (For Bottles or Demijohns of the Salvador 8D5.) ALFREDO LUCATI, New York, N. Y. Filed November 2, 1921.

23,856.—*Title:* "MILK-MAID CREAMS." For Cream Confections.) THE NUSS CONFECTIONERY CO., Cincinnati, Ohio. Filed August 27, 1921.

23,857.—*Title:* "QUINTALINE." (For an Ointment for Congested and Inflammatory Conditions.) THE QUINTALINE CO. OF AM., INC., Buffalo, N. Y. Filed May 6, 1921.

23,858.—*Title:* "LASHER'S MOORE YARNS LINEN THREAD." (For Linen Threads for Hand and Machine Sewing and Crocheting Purposes.) STAR MERCHANDISE COMPANY, New York, N. Y. Filed September 2, 1921.

23,859.—*Title:* "BRAWLEY BEAUTY BRAND." (For Cream and Boxes Containing Grape-Fruit.) EMIL STEINER, Brawley, Calif. Filed August 8, 1921.

23,860.—*Title:* "DEFECTOS PERFECTOS." (For Cigar-Boxes Containing Cigars.) THE ULRICH CIGAR CO., Milwaukee, Wis. Filed June 18, 1921.

23,861.—*Title:* "DR. LOUIS VALDEZ'S FAMOUS REMEDIES, FRENCH DISCOVERY." (For Eight-Ounce Bottle Containing a Tonic for Cure of Dyspepsia, Indigestion, Biliousness, Malaria, Boils, Liver or Kidney Troubles, Constipation, Rheumatism, Eczema, and All Blood Disorders.) LOUIS VALDEZ, Tampa, Fla. Filed May 6, 1921.

PRINTS

REGISTERED DECEMBER 27, 1921.

5,901.—*Title:* "BAKER GUN." (For Advertising Purposes for Guns.) BAKER GUN CO., Norwich, Conn. Filed July 5, 1921.

5,902.—*Title:* "AMERICA'S LEADING LUBRICANTS." (For Advertising Purposes for Lubricating Oils and Greases.) A. W. HARRIS OIL CO., Providence, R. I. Filed August 30, 1920.

5,903.—*Title:* "RIVALS IN BEAUTY." (For Advertising Purposes for Palmolive Soap.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed October 10, 1921.

5,904.—*Title:* "ALL-WAYS AND ALWAYS." (For Advertising Purposes for Sand-Blast and Allied Equipment.) PANGBORN CORPORATION, Hagerstown, Md. Filed April 1, 1921.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

EX PARTE CHANNEL CHEMICAL COMPANY.

Decided December 14, 1921.

1. TRADE-MARKS—MARK NOT USED NOT REGISTRABLE. The use of the mark "O-Cedar" and "Cedarine" *Held* not to constitute use of the word "Cedar."

2. SAME—"CEDAR"—DESCRIPTIVE. The word "Cedar" as a trade-mark for polished floors, furniture, etc., *Held* to be descriptive.

3. SAME—DESCRIPTIVE PART OF MARK NOT REGISTRABLE. *Held* that an applicant cannot mutilate his mark to convert it into a descriptive mark and register it.

APPEAL from Examiner of Trade-Marks.

TRADE-MARK FOR HARDWOOD FLOORS, WOODWORK, ETC.

Mr. Joseph B. Lawler and *Messrs. Milans & Milans* for the applicant.

FENNING, *Assistant Commissioner:*

This is an appeal from the decision of the Examiner of Trade-Marks refusing to register as applicant's trade-mark for polish for hardwood floors, woodwork, furniture, automobiles, and other goods the word "Cedar."

Applicant claims use since the year 1886. The labels filed as specimens show "O-Cedar." An affidavit of Mr. Channel in the file indicates that the use of "O-Cedar" began in 1907, and that applicant relies for its 1886 date upon a registered mark "Cedarine," which it purchased in 1917, and which applicant uses as a mark along with its "O-Cedar" mark, but on separate goods. It will be seen, therefore, that applicant alleges use of a mark which must be registered under the ten-year clause of the act of 1905, since it is clear that the word "cedar" is descriptive of a polish which may include oil of cedar, or which may even be adapted especially for polishing cedar wood.

The Examiner of Interferences has refused registration on the ground that trade-mark use of the word "Cedar" has not been shown. Applicant rests its case not on the "Cedarine" labels, but on the "O-Cedar" labels, which are filed herewith. It seems clear that applicant would not be allowed to register a part of the word "Cedarine." (*Ex parte Fitzpatrick Bros.*, 1919, T. M. Rep., 122, 257 O. G., 1081; 1918, C. D., 217; 48 App. D. C., 241; (*ex parte Stephen F. Whitman & Son*, 1910, C. D., 28; 151 O. G., 196.) Therefore no claim can be made to use prior to 1907 of the mark now demanded, even assuming that it is possible to lay claim to the present mark "Cedar" by the use of labels marked "O-Cedar."

I am unable to see, therefore, that applicant has shown such a trade-mark use of the word "Cedar" as will justify registration. Even if applicant's mark "O-Cedar" is registrable as a technical trade-mark it is merely because it is not the single descriptive word "Cedar." Applicant cannot mutilate that mark so as to convert it into a descriptive mark and register only the descriptive part. It seems unnecessary to cite cases in this respect, but it is interesting to note that in *Quaker City Flour Mills Co.* v. *The Quaker Oats Co.* (214 O. G., 684; 43 App. D. C., 260), the Court of Appeals of the District of Columbia declined to allow an applicant to register the arbitrary word "Quaker" based on a label use of the geographic "Quaker City." The Supreme Court in *Beckwith* v. *Commissioner of Patents*, (274 O. G., 613; 252 U. S., 538,) speaking by Mr. Justice Clark, says:

> The commercial impression of a trade-mark is derived from it as a whole not from its elements separated and considered in detail. For this reason it should be considered in its entirety.

At least so far as the Patent Office is concerned the entire mark should be registered.

Applicant refers to the case of *Allen* v. *Walker & Gibson*, (235 Fed. Rep., 230,) in which the court said of "Cedarine" and "O-Cedar" that "cedar" was the controlling word. Attention is also called to a decree entered in July, 1919, in the circuit court of Cook Co., Illinois, in a suit between the Channel Chemical Co. and Grossman Mfg. Co., from which it appears that "cedar" is frequently adopted by customers calling for applicant's goods, and in which defendant was restrained from using the word "cedar" upon or as a part of or in connection with the labels on furniture polish. It seems from this that applicant is obtaining all the protection it would obtain from registration of the word "Cedar" of which it has shown no trade-mark use.

It would seem that the registration in 1887 of the single word "Hunyadi" was really unnecessary for the protection of Saxlehner's rights. (*Saxlehner* v. *Bisner & Mendelson Company*, 179 U. S., 19.)

The Examiner of Trade-Marks is affirmed and registration of "Cedar" refused.

LOOSE-WILES BISCUIT COMPANY v. JOHNSON EDUCATOR FOOD COMPANY.

Decided December 14, 1921.

1. TRADE-MARK—OPPOSITION—FILING SPECIMENS OF LABELS.

The requirement that an opposer file specimens of the labels used by it *Held* to be a reasonable requirement.

2. SAME—SAME—PLEADINGS.

Where the ultimate fact is that opposer has applied a certain label to its goods, the appropriate way to plead that fact is to present the label.

ON PETITION.

TRADE-MARK FOR COOKIES, CRACKERS, CAKES AND BISCUITS.

Messrs. Emery, Booth, Janney & Varney for Loose-Wiles Biscuit Company.

Mr. Henry C. Thomson and *Mr. Nathan B. Day* for Johnson Educator Food Company.

FENNING, *Assistant Commissioner:*

This is a petition from the action of the Examiner of Interferences granting a motion by applicant for a further bill of particulars requiring the opposer to file specimens of its mark referred to in the notice of opposition. The notice of opposition shows that opposer has used the mark involved "descriptively and to indicate *origin* in the manner stated." The Examiner of Interferences took this statement to indicate a trademark use and he seems to have been justified. As late as 1920 the Supreme Court, in *Beckwith* v. *Commissioner of Patents*, (1920, C. D., 471; 274 O. G., 613; 252 U. S., 538,) defines a trade-mark as pointing "to the *origin* or ownership of the wares to which it is applied." It is elemental trade-mark law that a trade-mark "indicates origin" and it seems reasonable to expect both the applicant and the Examiner of Interferences to assume an opposition drawn by the able counsel who represent opposer employs technical words in a technical sense in a trade-mark suit such as this.

Opposer insists that the order of the Examiner of Interferences calls for filing a label which has been affixed to the goods, and it is insisted that the notice of opposition does not indicate any such use. The order of the Examiner of Interferences is for—

at least one of the specimens used by the opposer "to indicate origin" if in fact such specimens have been used.

It will be noted that the order merely calls for a specimen described in the words of the notice of opposition. The order further gives the opposer the option of explaining the ambiguity in the notice of opposition in lieu of filing such specimens.

Opposer seems dissatisfied in that it reads the order as instructions to file but one specimen, and it fears that the filing of one specimen may be an election to prove no other specimens. It seems clear, however, that the order can be complied with by filing a multiplicity of specimens, since the order calls for "at least" one.

The whole question here seems to arise from a misunderstanding by opposer of the words "ultimate facts" as employed in *Wolcott* v. *National Electric Signaling Co.*, (235 Fed. Rep., 224.) That case indicates the true rule that a pleading should incorporate the ultimate facts. In the present instance the ultimate fact is that opposer has applied a certain label to its goods. The appropriate way to plead that fact is to present the label, and not to endeavor to more or less loosely describe it. If the ultimate fact is that no such label has been used, the order of the Examiner of Interferences provides for a definite statement to that effect.

Rather than allow an opposer to urge in general terms that he or the general public has used something which he believes will prevent the registration of applicant's mark it seems reasonable to require the opposition to be made definite by submission of a specific label. Without this applicant may be unable to determine whether a motion to dismiss should be filed or not. It is believed that applicant should be definitely and fully informed of the facts opposer proposes to urge. It may be that this is a particularly aggravated case, since opposer suggests that it has used, in one or another of its plants, a large number of labels, and it may overlook some in filing specimens. Much more is applicant at a loss to determine which of the many labels of opposer are pertinent.

Opposer's chief argument seems to be directed to the procurement of an interpretation of the equity rules which would allow vague indefinite pleadings to be filed which would give no information as to the real facts of the case. This does not appeal to the conscience of the tribunal.

The practice of requiring opposers to file specimens is well established and seems to work for good, since it produces definite clear concise issues early in the case.

The petition is denied.

EX PARTE CONNER & CO.

Decided December 15, 1921.

TRADE-MARKS — OPPOSITION — DOUBT RESOLVED AGAINST LATER ENTRANT.

Held that in opposition proceedings the rule is well established that doubt as to likelihood of interference should be waived against the later entrant into the field.

ON APPEAL.

TRADE-MARK FOR TABLE SIRUP.

Mr. Arthur E. Wallace for the applicant.

FENNING, *Assistant Commissioner:*

This is an appeal from the action of the Trade-Mark Examiner refusing to register applicant's trade-mark "Melomar," for table sirups. The Examiner relies on the prior registered mark, 93,259, for a compound of raisin sirup and cane sugar, consisting of the word "Melo."

Applicant urges that its goods are not of the same descriptive properties as raisin sirup and cane sugar. I believe that they are of the same descriptive properties, and so hold. The marks are so nearly alike as to be likely to cause confusion. The Examiner, in his statement, has referred to a number of manuscript decisions supporting this conclusion, and these seem sufficient here.

In opposition proceedings the rule is well established that doubt as to likelihood of interference should be waived against the later entrant into the

field. Applicant urges that the same rule should not be applied with respect to an ex parte rejection. I am unable to reach this conclusion. The Office must represent the whole public, including the prior registrant whose mark is relied upon as grounds for refusing registration.

The Examiner of Trade-Marks is affirmed and registration is refused.

TITUS v. BURTON AND CIOMEI v. THE LADDIE BOY MFG. CO. v. DAVIS & VOETSCH v. YOST.

Decided December 16, 1921.

1. TRADE-MARKS—EFFECT OF FILING AN APPLICATION.

Section 16 of the Trade-Mark Act of February 20, 1905, provides that "the registration of a trade-mark under the provisions of this act shall be prima facie evidence of ownership." When an applicant has filed an application making therein such a showing and averment as will justly entitle him to registration, the evidence is, in the absence of anything to the contrary, the same as when he becomes a registrant. It would seem a fair deduction, and it is so held, that the presumption of ownership should be carried back to the date when he had filed the complete evidence entitling him to registration, (citing *Rosenberg Co.* v. *Phillips-Jones Company, Inc.*, 289 O. G., 411, and *Wm. Wrigley, Jr. & Co.* v. *Norris*, 152 O. G., 488; 34 App. D. C., 138.)

2. SAME—DECLARATION OF INTERFERENCE—MECHANICAL APPLICATIONS.

The change in the practice governing the declaration of interferences between applications for patents on inventions in mechanical devices, whereby no interference is declared unless the junior party alleges a date of invention prior to the filing date of the senior party, which change is fully set forth and approved by the United States Supreme Court in the case of *Ewing, Commissioner of Patents*, v. *United States, ex rel. The Fowler Car Company*, (238 O. G., 983; 244 U. S., 1.) was brought about by the tremendous and ever-increasing amount of work of this character devolving upon this Office and the absolute necessity for eliminating such portion as seemed unnecessary to the preservation of the interests of all applicants.

3. SAME—SAME—TRADE-MARK APPLICATIONS.

From analogy it is believed that, as is the practice in declaring interferences between application for patents for inventions relating to mechanical devices, ordinarily the application of the senior party for the registration of a trade-mark, which application is such as to establish a right to registration, should not be included in an interference with that of a junior party unless the latter alleges adoption and use of the mark prior to the date of the filing of the earlier application, but where in such a case a question is raised as to whether the senior party has filed such an application *Held* that the rights of the parties may be established by an interference proceeding.

ON PETITION to the Commissioner to exercise supervisory authority.

TOY DOGS.

Mr. Hazen J. Titus pro se.

Mr. B. G. Foster for Burton and Ciomei.

Mr. Max D. Ordmann for The Laddie Boy Mfg. Co.

Messrs. Spear, Middleton, Donaldson and Hall for Davis & Voetsch.

Mr. William N. Roach, Jr., for Yost.

KINNAN, *First Assistant Commissioner:*

The party Davis and Voetsch has presented a petition that the Commissioner exercise his supervisory authority to direct the Examiner of Interferences in charge of trade-marks to give petitioners a reasonable time to gather facts and submit affidavits covering the same for showing that the party Yost was not, at the time of the filing of his application for registration, the owner of the trade-mark therein set forth within the purview of the trade-mark laws; also, to direct the Examiner of Interferences in charge of trade-marks to permit petitioners to establish by proofs that they are the owners of the trade-mark for which they seek registration.

It appears an application for the registration of the trade-mark "Laddie Boy," as applied to toy animals, including toy dogs, was filed by the party Yost. The application was accompanied by the usual affidavit required by section 2 of the act of February 20, 1905, setting forth ownership and use of the mark, and by specimens of the mark as actually used. Subsequently several other applications for registration of the same mark applied to the same class of goods were filed by other applicants, including petitioners. An interference, as provided for under section 7 of this act, was declared to exist. None of the parties alleged a date of adoption and use of the mark as early as the date on which Yost filed his application. Thereupon the latter, in view of the change of practice set forth in a recent decision of the Assistant Commissioner in the case of *The Rosenberg Company* v. *Phillips-Jones Company, Inc.*, (289 O. G., 411,) filed before the Examiner of Interferences in charge of trade-marks a motion to dissolve. The motion was denied; but by reason of the fact that the alleged dates of adoption and use of the mark by the junior parties were all subsequent to the filing date of the senior party, Yost, these junior parties were all cited to show cause, within a certain period, why judgment on the record should not be rendered against them. The party Burton and Ciomei filed, within this period, an affidavit of Burton alleging that after an investigation affiant had failed to find any indication that the senior party used the mark as early as stated in the oath accompanying the application of such senior party. In view of this affidavit of Burton the Examiner of Interferences held sufficient cause had been shown and has indicated that he will, when the present petition has been disposed of, set times for the taking of testimony to determine the rights of priority as between Yost and Burton & Ciomei. As to the other parties, including petitioners, judgment was rendered against them.

There are two questions presented in this petition for decision here. First, whether the decision in the *Rosenberg Company* v. *Phillips-Jones Company, Inc.*, should be extended to include a holding that for purposes of interference proceedings a regular application for the registration of a trade-mark, supported by an affidavit fully meeting the requirements of section 2, and accompanied by specimens of the mark as actually used, the application being sufficient in the absence of opposing interests to justly entitle the applicant to registration, should

be taken as prima facie proof of ownership on the date the application was filed when there has not yet been a registration of the mark. The second question is whether the party Yost has filed such an application.

In view of the disposition of the case the answer to the first question need not be made at this time; but in view of the change of practice suggested by the decision in the *Bloomsbury Company* v. *Phillips-Jones Company* case it is deemed advisable to consider such first question here.

The change in the practice governing the declaration of interferences between applications for patents on inventions in mechanical devices, whereby no interference is declared unless the junior party allege a date of invention prior to the filing date of the senior party, which change is fully set forth and approved by the United States Supreme Court in the case of *Ewing, Commissioner of Patents*, v. *United States ex rel. The Fowler Car Company*, (238 O. G., 983; 244 U. S., 1,) was brought about by the tremendous and ever-increasing amount of work of this character devolving upon this Office and the absolute necessity for eliminating such portion as seemed unnecessary to the preservation of the interests of all applicants. From analogy it would appear that such practice should be extended to applications for the registration of trade-marks. The difference between the disclosure of an application for a patent for an invention in a mechanical device and one for the registration of a trade-mark is not overlooked. The former is conclusive, at least as to the possession of the applicant, of a knowledge of whatever invention is clearly disclosed, while the application for the registration of a trade-mark is not conclusive as to adoption and use of the mark set forth in the case.

Section 16 of the act herein reviewed states that—

> the registration of a trade-mark under the provisions of this act shall be prima facie evidence of ownership.

When such an applicant has filed an application making therein such a showing and averment as will justly entitle him to registration, the evidence is, in the absence of anything to the contrary, the same as when he becomes a registrant. It would seem a fair deduction, and it is so held, that the presumption of ownership should be carried back to the date when he had filed the complete evidence entitling him to registration. The registration, in my judgment, is an act based upon a presumption of ownership which attached when the complete evidence was first placed in the Office. In the case of *Wm. Wrigley, Jr., & Co.* v. *Norris* (152 O. G., 488; 34 App. D. C., 138) the court says:

> The application of appellant being regular in form entitled him prima facie to the right of registration.

This decision would seem to further support the view that the date of filing should be regarded as the date establishing prima facie proof of ownership of the mark.

If it be admitted this conclusion is correct, does evidence of adoption and use of the mark applied to the same class of goods by another, subsequent to this date of filing of the senior applicant, affect or rebut this prima facie proof of ownership? Upon what theory can this be answered in the affirmative? If all the acts set up in the pleadings are admitted to be true, yet if they all took place subsequent to the date of filing of the complete application of the senior party they would appear to have no bearing upon the question of priority unless in some manner they tend to disprove or rebut the allegations of such senior party.

In view of the foregoing it is believed that, as is the practice in declaring interferences between applications for patents for inventions relating to mechanical devices, ordinarily the application of a senior party which is such as to establish a right to registration should not be included in an interference with that of a junior party, unless the latter alleges adoption and use of the mark prior to the date of the filing of the earlier application.

Regarding the second question, whether Yost has filed such an application as entitles him to be regarded as having established prima facie proof of ownership, the averments set forth in the affidavit of Burton and the matters embodied in the brief of counsel for petitioners relating to the apparent inconsistencies in the affidavit of the party Yost, especially the last allegation as to the use of the mark in commerce with England and Germany, are sufficient to justify the holding that the petitioners should be permitted to take testimony in support of their contentions.

The petition is granted.

ADJUDICATED PATENTS.

(U. S. C. C. A. Mo.) The Kauffman patent, No. 1,170,544, for radiator shield, *Held* valid. *Sodemann Heat & Power Co.* v. *Kauffman*, 275 Fed. Rep., 593.

(U. S. C. C. A. Mo.) The Kauffman design patents, No. 48,939 and No. 49,140, for designs for radiator shield, *Held* void. *Sodemann Heat & Power Co.* v. *Kauffman*, 275 Fed. Rep., 593.

(U. S. D. C. Conn.) The Menzer patent, No. 1,230,750, for strip-metal blocker, claim 1 *Held* valid and infringed. *Menzer* v. *Kenworthy*, 275 Fed. Rep., 649.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 6TH DAY OF DECEMBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Adams, Walter L., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Fishing-reel. No. 1,398,956; Dec. 6.

Adamson, George P., Huntington, assignor to General Chemical Company, New York, N. Y. Making alkyl sulfuric acid. No. 1,398,954; Dec. 6.

Ahearn, Thomas, Ottawa, Ontario, Canada. Driving mechanism for talking machines. No. 1,398,979; Dec. 6.

Aigrand, Marcel D., Indiana, Pa. Bit-box. No. 1,398,880; Dec. 6.

Alden Speare's Sons and Vise Company, The. (See Long, John E., assignor.)

Allen, Edward B., Newtown, Conn., assignor to The Singer Manufacturing Company. Power-table. No. 1,399,284; Dec. 6.

Allen, Edward V., Waukegan, Ill. Automobile-fender. No. 1,398,957; Dec. 6.

Allen, Robert E. B., Pensacola, Fla. Cuff-button. No. 1,398,924; Dec. 6.

Allworth, Arthur B., assignor to Edward Miller & Company, Meriden, Conn. Electric fixture. No. 1,398,936; Dec. 6.

American Chain Company. (See Bayburn, John R., assignor.)

American Coke & Chemical Company. (See Roberts, Arthur, assignor.)

American Optical Company. (See Pellow, Arthur, assignor.)

American Steel and Wire Company of New Jersey, The. (See Hellman, Frank, assignor.)

American Telephone and Telegraph Company. (See Demarest, Charles S., assignor.)

American Telephone and Telegraph Company. (See Rhodes, William A., assignor.)

American Transformer Company. (See Schermerhorn, John L., assignor.)

American Wells Works, The. (See Kerr, Charles V., assignor.)

American Wood Working Machinery Company. (See McMichael, James D., assignor.)

Anderson, Charles G., Jr., Buffalo, N. Y. Priming-cup. No. 1,399,596; Dec. 6.

Anderson, Edward L. and L. A., assignor to R. & G. Company, Attleboro, Mass. Pencil. No. 1,398,955; Dec. 6.

Anderson, John, Seattle, Wash. Truck attachment for automobiles. No. 1,399,597; Dec. 6.

Anderson, Louis A. (See Anderson, Edward L. and L. A.)

Anderson, William W., Michigamme, Mich. Flashlight-generator. No. 1,399,598; Dec. 6.

Angell, Otis R., Haverhill, Mass., assignor to Hamel Shoe Machinery Company. Edge setter and burnisher. No. No. 1,398,993; Dec. 6.

Angelo, Louis, Kansas City, Mo. Antiskid-tread. No. 1,399,179; Dec. 6.

Armitage, George H., Woonsocket, R. I., assignor to Kelley Ticket Machine Company, New York, N. Y. Delivery mechanism for vending machines. No. 1,398,994; Dec. 6.

Armstrong, Morgan K., Winnetka, assignor to Bestwall Manufacturing Company, Chicago, Ill. Weather-board. No. 1,399,485; Dec. 6.

Atkinson, George K., Brooklyn, N. Y., assignor to Aurora Tool Works, Aurora, Ind. Drilling-machine. No. 1,399,599; Dec. 6.

Aurora Tool Works. (See Atkinson, George K., assignor.)

Austin, Stephen F., San Antonio, Tex. Road-building machine. No. 1,399,681; Dec. 6.

Auto-Ordnance Corporation. (See Payne, Oscar V., assignor.)

Ayres, Reuben B., New York, N. Y. Gas-generator. No. 1,399,285; Dec. 6.

Babcock & Wilcox Company, The. (See Sellens, Francis C., assignor.)

Baer, Carl J., St. Louis, Mo. Dredging system. No. 1,399,286; Dec. 6.

Bagley, John N., and W. M. Dutton, Hastings, Nebr. Grease-pump. No. 1,399,240; Dec. 6.

Bailey, Fred L., and J. H. La Grant, Wichita, Kans. Core for tire-casings. No. 1,399,180; Dec. 6.

Baines Engineering Company, The. (See Baines, Henry C., assignor.)

Baines, Henry C., Cleveland, assignor to The Baines Engineering Company, Canal Dover, Ohio. Self-propelled agricultural implement. No. 1,399,040; Dec. 6.

Baits, Stuart G. (See Jukes, S. L., and Baits.)

Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Wheel for automobiles. No. 1,399,720; Dec. 6.

Baker, Erle K., assignor to Universal Rim Company, Chicago, Ill. Demountable-rim construction. No. 1,399,041; Dec. 6.

Baker Wheel & Rim Company. (See Baker, Erle K., assignor.)

Baker Wheel & Rim Company. (See Hawley, Charles G., assignor.)

Baldwin Locomotive Works, The. (See Holloway, Jesse F., assignor.)

Balthasar, Arthur, Montclair, N. J. Lacing-closure. No. 1,398,995; Dec. 6.

Bangle, James A. (See Touchstone, B. F., Gardner, Bangle, Sullivan, and Hardin.)

Barders, Jose M., New York, N. Y. Combination-tool. No. 1,398,996; Dec. 6.

Bardon, Ray O., Upper Sandusky, Ohio. Antislipping attachment for shoes. No. 1,399,682; Dec. 6.

Barnhart, George. (See Burke, C. E., and Barnhart.)

Barnum, Oliver S. (See Williams, F. E., and Barnum.)

Barrows, Harry W., Omaha, Nebr. Vacuum-brake. No. 1,399,099; Dec. 6.

Barry, James F., Chicago, Ill. Pipe or conduit hanger. No. 1,399,456; Dec. 6.

Barsch, Wilhelm, Lucerne, Switzerland. Device for sharpening the blades for safety-razors. No. 1,399,241; Dec. 6.

Bartels, Carl. (See Mosler, M., and Bartels.)

Basch, David, New York, N. Y. Ear-muff. No. 1,398,954; Dec. 6.

Bascom, Perry H., Boundbrook, N. J., assignor to The Dorr Company. Automatic control of reactions. No. 1,399,181; Dec. 6.

Bastian, Charles L., Chicago, Ill. Dispensing apparatus. No. 1,399,373; Dec. 6.

Batchelder, Frank R., assignor to Mills Belt Company, Worcester, Mass. Wide belt and fastener therefor. No. 1,399,457; Dec. 6.

Bayliss, Jerome Z., assignor of one-half to A. E. Merkel, Cleveland, Ohio. Toy. No. 1,399,537; Dec. 6.

Bear Manufacturing Company. (See Sandbo, Anton I., assignor.)

Beaver Company, The. (See Roberts, David E., assignor.)

Beavers, Lambert E., Philadelphia, Pa. Umbrella-support. No. 1,399,683; Dec. 6.

Beeman, Roscoe H., Albany, N. Y. Lamp globe or shade. No. 1,399,042; Dec. 6.

Beers, Earl E., Lakehurst, N. J. Railway safety appliance. No. 1,399,600; Dec. 6.

Belcher, Mark, Goose Creek, Tex. Check-valve. No. 1,399,684; Dec. 6.

Belknap, Joel B., Midland, Mich. Vehicle road-track. No. 1,399,043; Dec. 6.

Bell, George B., assignor to S. L. Bell, Cambridge, Mass. Vehicle-wheel. No. 1,399,331; Dec. 6.

Bell, H. G. (See Eaton, George M., assignor.)

Bell, Sarah L. (See Bell, George B., assignor.)

Bellis, Arthur B., Springfield, Mass., assignor to The Bellis Heat Treating Company, New Haven, Conn. Heat treatment of metals. No. 1,399,044; Dec. 6.

Bellis Heat Treating Company, The. (See Bellis, Arthur E., assignor.)

Benedict, James Z., Cedar Rapids, Iowa. Rope-grip. No. 1,399,182; Dec. 6.

Bennett, Charles W. (See Saunders, C. L., Stanley, and Bennett.)

Bennett, Oscar W., Colby, Kans. Stacker. No. 1,399,242; Dec. 6.

Benson, Robert S., Middleton St. George, England. Propulsion-screen. No. 1,398,997; Dec. 6.

Bentley, Anson J., Niles, Ohio. Freezing-can. No. 1,399,287; Dec. 6.

Bentley, John. (See Scott, W. H., and Bentley.)

Bergman, Axel G., assignor to Ordnance Engineering Corporation, New York, N. Y. Trench-mortar. No. 1,399,243; Dec. 6.

Bernstein, Rudolf, Halle-on-the-Saale, Germany. Agricultural machine. No. 1,399,045; Dec. 6.

Berthold, Emily. (See Zahn, Joseph A., assignor.)

Bestwall Manufacturing Company. (See Armstrong, Morgan K., assignor.)

Bicker, Edgar B., St. Louis, Mo. Tenon-anchor. No. 1,399,183; Dec. 6.

Billingham, Milton C. J., Kalamazoo, Mich. Paper-stock-treating machine. No. 1,399,184; Dec. 6.

Bird, David B., Chicago, Ill. Fuller ball. No. 1,399,459; Dec. 6.

Birkhead, Eric E., and G. O. Lillegren, Chicago, Ill.; said Birkhead assignor to said Lillegren. Alarm-device for automatic fire-extinguishing systems. No. 1,399,374; Dec. 6.

Bissell, Wayne W. Rochester, Minn. Stump-puller. No. 1,398,947; Dec. 6.

Bjerrum, Julius, assignor to Bjerrum Manufacturing Company, Watertown, S. D. Kiln contractor and stacker. No. 1,398,941; Dec. 6.

Bjerrum Manufacturing Company. (See Bjerrum, Julius, assignor.)

Blenke, Hans H., Hamburg, near Copenhagen, Denmark. Internal-combustion engine, which may be directly reversed. No. 1,399,723; Dec. 6.

Blaylock, Sidney O. (See Lee, F. S., McCallum, and Blaylock.)

Blencoe, Warren S., assignor to The Tennessee Products Company, Dresher, Ohio. Producing briquette coke. No. 1,399,245; Dec. 6.

Blencoe, Warren S., assignor to The Tennessee Products Company, Dresher, Ohio. Extraction of phosphorus, arsenic, and sulfurs from metals ores. No. 1,399,244; Dec. 6.

Blodgett, George E., M. F. Chaney, Brooklyn, and E. T. Hartley, New York, N. Y. Sparking-plug. No. 1,399,270; Dec. 6.

Blodgett, George E., M. F. Chaney, Brooklyn, and E. T. Hartley, New York, N. Y. Sparking-plug. No. 1,399,276; Dec. 6.

Blomstrand, Robert B., Sundsvall, Sw. Indestructible car train. No. 1,399,247; Dec. 6.

Blank, Heinrich. (See Imhoff, A. and Blank.)

Blye, Harold, assignor to National Brass Company, Grand Rapids, Mich. Lock set. No. 1,399,729; Dec. 6.

Blythe, Harry B., et ux. (See Cramm, George H., assignor.)

Boit, William J., Platteville, Wis. Lawn-mower attachment. No. 1,398,601; Dec. 6.

Bonnell, Herbert H., Denver, Colo. Flotation apparatus. No. 1,399,020; Dec. 6.

Bonsteel, Lewis Ansley. (See Lewis, Harry B., assignor.)

Bordon Company, The. (See Mackenzian, Ira W., assignor.)

Bernard, William G. (See Clark, Charles O., assignor.)

Borst, Joseph F. and W., Brooklyn, N. Y. Brush for oiling-machine rosette. No. 1,399,714; Dec. 6.

Borst, William, Jr. (See Borst, Joseph F. and W.)

Bousquard, Emile E., Burlington, Vt. Lubricating and protecting jacket for springs. No. 1,399,248; Dec. 6.

Bowitz, John G., Houston, Tex. Vehicle-seat. No. 1,398,959; Dec. 6.

Bowser, Jerome L., Boyertown, Pa. Automatic train-controlling device for preventing collisions. No. 1,399,692; Dec. 6.

Bowers, Frederick M., Chester, Pa. Helmet or mask. No. 1,399,602; Dec. 6.

Bowne, Walter G., Greenwich, Conn. Machine for cask-marking and embossing letters. No. 1,398,735; Dec. 6.

Bowman, Frederick J., assignor to The Ironsides Chemical Company, Cleveland, Ohio. Ore-treating furnace. No. 1,398,944; Dec. 6.

Bowness, Newton E., Canton, Ohio. Tool for splicing cables. No. 1,399,191; Dec. 6.

Box, Joseph D., Connellsville, Ohio. Attachment for squares. No. 1,399,536; Dec. 6.

Bradshaw, George R., Stamford, Conn. Projectile-plotter. No. 1,398,909; Dec. 6.

Brady, John F., Colorado Springs, Colo. Railway-crossing. No. 1,399,259; Dec. 6.

Brant, Ellis G. (See Blakeney, N. B., and Brant.)

Brauner, Otto H., and M. H. Oster, assignors to The Watsonia Chemical and Manufacturing Company, Akron, Ohio. Waterproofing composition. No. 1,399,734; Dec. 6.

Breslin, Gordon C. Gall, Ontario, Canada. Check-valve. No. 1,398,909; Dec. 6.

Brennan, William F., Collinsville, Ill. Window-frame. No. 1,399,060; Dec. 6.

Brewer, Charles H., Raleigh, Tex. Fishing-rod. No. 1,399,249; Dec. 6.

Brown, William M., Johnstown, Pa. Switch-operating mechanism. No. 1,399,540; Dec. 6.

Brownback, Henry L., Narragansett, assignor to The Premier Motor Corporation of America, Philadelphia, Pa. Lateral-compression engine. No. 1,398,901; Dec. 6.

Brugmann, William F., Evanston, Ill., assignor to Fritting Utilities Company. Printing-plate mounting. No. 1,399,047; Dec. 6.

Bruhy, Alexander F., West Bend, Wis. Automatic stop for passengers. No. 1,398,158; Dec. 6.

Bruhy, Alexander F., Plymouth, Wis. Passenger-brake. No. 1,398,159; Dec. 6.

Brulle, Alexander, New York, N. Y. Propeller for aircraft. No. 1,399,250; Dec. 6.

Buckeye Iron and Brass Works. (See Trace, Russell A., assignor.)

Budd, Edward G., Manufacturing Company. (See Ledwinka, Joseph, assignor.)

Buffalo Foundry & Machine Co. (See Engel, Godfrey, Sr., assignor.)

Bunnell, E. Dick. (See Nash, Kaycroft, assignor.)

Bunnell, E. Dick. (See Nash, William S., assignor.)

Burke, Charles E., Carnegie Point, and G. Barnhart, Woodtown, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Treating apparatus. No. 1,399,107; Dec. 6.

Burnham, George A., Bangor, assignor to S. B. Condit, Jr., Brooklyn, Me. Oil-well tool. No. 1,398,996; Dec. 6.

Burroughs Adding Machine Company. (See Wiseley, Frank C., assignor.)

Burton, Charles B., Oak Park, Ill. Container for condensers and the like. No. 1,398,847; Dec. 6.

Burtscher, Victor A. (See Bernard, G. A., and Burtscher.)

Busker, Charles A., Okmulgee, Okla. Attachment for corn-planters. No. 1,399,908; Dec. 6.

Butler, David H., Edgewood, assignor to The Isbell Company, Providence, R. I. Hair-curler. No. 1,398,101; Dec. 6.

Butt, Hugh V., Norfolk, Va. Dump-cars. No. 1,398,949; Dec. 6.

Byers, Otto E., Louisville, Ky. Lock for trailer steering and draft gears. No. 1,398,143; Dec. 6.

Cadman, Adel B., Beloit, Wis., assignor to Warner Manufacturing Company, South Beloit, Ill. Vehicle-coupling. No. 1,398,999; Dec. 6.

Cady, Charles H., Omaha, Nebr. Photographic mask. No. 1,399,186; Dec. 6.

Calderara & Co. (See Johnson, Frank M., assignor.)

Caldwell, Edwin de H., Brooklyn, N. Y. Differential gear. No. 1,399,092; Dec. 6.

Campbell, Lewis W., Barre Plains, Mass. Filter for saving fibrous and other fine textile apparatus. No. 1,399,227; Dec. 6.

Campbell, Malcolm G. Windsor, Ontario, Canada, assignor to Kelsey Wheel Company, Inc. Detroit, Mich. Automobile thrust-bearing. No. 1,399,100; Dec. 6.

Carey, Ferdinand M., New York, N. Y. Ballyrolling apparatus. No. 1,399,045; Dec. 6.

Carey, Ferdinand M., New York, N. Y. Ballyrolling apparatus. No. 1,399,046; Dec. 6.

Cappe, Ernest L., Brooklyn, N. Y. Attachment for sound-boxes. No. 1,398,981; Dec. 6.

Carbonin, James G. (See Carbonin, Samuel M. and J. G.)

Carbonin, Samuel M. and J. G., Kansas City, Mo. Electric heater. No. 1,399,040; Dec. 6.

Carr-Harvey Cotton Company. (See Newell, Louis B., assignor.)

Carrier, Wm. Sidney, Minot, assignor of one-half to F. C. Bugbee, Evanston, Ill. Moulding electric resistance elements. No. 1,399,420; Dec. 6.

Carrier, Newell. (See Hughes, Frank C., assignor.)

Carruthers, James F. (See Jefferson, C. A., and Carruthers.)

Cassell, Antonio, assignor of one-half to E. I. Taylor, Hamilton, Ontario, Canada. Non-removable nut. No. 1,398,191; Dec. 6.

Case, Edward E., Oneida, N. Y. Automatic air-valve. No. 1,399,044; Dec. 6.

Cawley, James and F. Hills, assignors to The Globe Pneumatic Engineering Company Limited, Wanstead, London, England. Connecting-rod and crank-shaft. No. 1,398,971; Dec. 6.

Chaddick, Charles L. (See Mayo, James K., assignor.)

Chadwell, Carl W., Gainesboro, Tenn. Pulling-bit for propeller-shafts. No. 1,399,121; Dec. 6.

Chaffee, Emery L., Belmont, Mass. Means for changing the intensity of signals in radio-dynamic receiving systems. No. 1,399,251; Dec. 6.

Champlin, Frank A. (See Moriarty, Daniel F., assignor.)

Chemical Foundation Inc., The. (See Daniel, Arnold, assignor.)

Chemical Foundation, Inc., The. (See Patterson, Arnold, assignor.)

Chemical Foundation Inc. (See Graf de la Haste, Friedrich, assignor.)

Chemical Foundation, Inc., The. (See Mayfee, Willy, assignor.)

Chemical Foundation, Inc., The. (See Weiler, Richard, assignor.)

Chemical Foundation, Inc., The. (See Wharton-Kawalki, Mieczyslaw J., assignor.)

Chemical Foundation, Inc., The. (See Zscheye, Georg, assignor.)

Chenery, William H., Montreal, Quebec, Canada. Inclosed instrument-board. No. 1,399,442; Dec. 6.

Cheney, Moses E. (See Blodgett, G. E., Chaney, and Hartley.)

Chilton, Chauncey E., San Diego, Calif. Microscope. No. 1,399,461; Dec. 6.

Christiansen, Arnold, Detroit, Mich. Mill for rolling tapered steel. No. 1,398,933; Dec. 6.

Christiansen, Arnold, Detroit, Mich. Mill for rolling tapered steel. No. 1,398,934; Dec. 6.

Christiansen, Arnold, Detroit, Mich. Forming wheel blanks. No. 1,398,936; Dec. 6.

Christie, Alberton R., St. Louis, Mo. Hoodboard. No. 1,399,271; Dec. 6.

Chubb, Lewis W., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical precipitating system. No. 1,399,477; Dec. 6.

Clark, Charles D., assignor to W. G. Sherrill Electrical Engineering, Canada. Fuel-economizer. No. 1,398,960; Dec. 6.

Clarke, Harold J. (See Rose, Harry E., assignor.)

Clatworthy, Cecil G. (See Harper, Eugene D., assignor.)

Clay, Samuel S. (See Patterson, F. D., and Clay.)

Cleyton, Fabius, Coventry, assignor to Countryside, Ltd., London, England. Arithmetical adding apparatus. No. 1,399,201; Dec. 6.

Cleveland Tractor Company, The. (See White, Rollin H., assignor.)

Cloetens, Georges, Brussels, Belgium. Beating-reed and beating-reed organ. No. 1,399,462; Dec. 6.

Clough, Alfred N., Sunnyvale, Calif. Water-heater. No. 1,399,192; Dec. 6.

Clover, Eliot K., Lobrville, Iowa. Checkrein-holder. No. 1,399,403; Dec. 6.

Cluley, John P., Chicago, Ill. Headlight. No. 1,399,378; Dec. 6.

Cochran, Clyde E., assignor to The Elwell-Parker Electric Company, Cleveland, Ohio. Industrial truck. No. 1,399,349; Dec. 6.

Coe, Clyde G., Lawrence, Kans. Fly-swatter. No. 1,399,195; Dec. 6.

Cole, Alston P., Brockton, Mass. Interior decorative finish. No. 1,399,330; Dec. 6.

Cole, Ira L., assignor to Gisholt Machine Company, Madison, Wis. Universally-adjustable work or tool holder. No. 1,399,194; Dec. 6.

Collier, David R., assignor to Collier Keyworth Company, Gardner, Mass. Chair-iron. No. 1,399,464; Dec. 6.

Collier, David R., assignor to Collier Keyworth Company, Gardner, Mass. Stool. No. 1,399,465; Dec. 6.

Collier, David R., assignor to Collier-Keyworth Company, Gardner, Mass. Chair-iron. No. 1,399,466; Dec. 6.

Collier-Keyworth Company. (See Collier, David R., assignor.)

Collier, Paul R., Philadelphia, Pa. Headlight for automobiles or other vehicles. No. 1,399,195; Dec. 6.

Collins, Albert P., Amherst, Nova Scotia, Canada. Submarine rescue craft. No. 1,399,196; Dec. 6.

Condit, Sears B., Jr. (See Burnham, George A., assignor.)

Connor, Herschel M. (See Craig, C. F., and Connor.)

Connors, Frederick P., Montreal, Quebec, Canada. Vehicle-jack. No. 1,399,091; Dec. 6.

Consolidated Mining & Smelting Company of Canada. (See Lee, F. E., McCallum, and Blaylock, assignors.)

Cope, Willard C., Woodbury, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Detonating composition. No. 1,399,104; Dec. 6.

Corby, Edward A., Brooklyn, assignor to Tiffany & Co., New York, N. Y. Printing-press gage. No. 1,399,291; Dec. 6.

Cordes, Henry F., Cincinnati, Ohio. Door-holder. No. 1,399,467; Dec. 6.

Courtaulds, Ltd. (See Clayton, James, assignor.)

Cozens, George H., Hamilton, assignor of one-fourth to J. Hagey, Brantford, one-fourth to H. H. Blythe, and one-fourth to F. H. Secord, Hamilton, Ontario, Canada. Dash fastener. No. 1,399,105; Dec. 6.

Craig, Charles F., and H. M. Connor, San Francisco, Calif., assignor to Craig Golfmaster Co. Captive-ball practice device. No. 1,399,292; Dec. 6.

Craig, Charles F., and H. M. Connor, San Francisco, Calif., assignor to Craig Golfmaster Co. Playing-ball. No. 1,399,293; Dec. 6.

Craig Golfmaster Co. (See Craig, C. F., and Connor, assignors.)

Cranmer, Frank B. (See Hampshire, H. F., and Cranmer.)

Cryson, George B., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Spark-gap. No. 1,399,095; Dec. 6.

Crowe, Robert L., Memphis, Tenn. Quinin silver phosphate composition and making same. No. 1,399,604; Dec. 6.

Cunelio, Henry, New Orleans, La. Water-toboggan. No. 1,399,468; Dec. 6.

Cunerty, Terence J., Toronto, Ontario, Canada. Atomizing oil-burner. No. 1,399,006; Dec. 6.

Cunningham, William B., Kansas City, Mo. Airplane-indicator. No. 1,399,423; Dec. 6.

Currier, Howard S., assignor to General Motors Corporation, Detroit, Mich. Motor-vehicle. No. 1,399,370; Dec. 6.

Curtis, Henry E., San Jose, Calif. Evaporator. No. 1,399,692; Dec. 6.

Cushman, Allerton S., Washington, D. C. Antiseptic solution. No. 1,399,007; Dec. 6.

Dain, Joseph D., Jr., administrator. (See Dain, Joseph.)

Dain, Joseph, deceased, by Joseph Dain, Jr., administrator, Moline, Ill., assignor to The Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Side-delivery rake. No. 1,398,197; Dec. 6.

Dain Manufacturing Company of Iowa, The. (See Dain, Joseph, assignor.)

Daniel, Arnold, Charlottenburg, near Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Purifying juices containing inulina and laevulose. No. 1,398,544; Dec 6.

Danielson, Frank R., Fairfield, Iowa. Ice-tug. No. 1,399,196; Dec. 6.

Davenport, Hudson A., assignor of one-third to F. P. Wyngard, Wyandotte and one-third to H. G. Morrison, Trenton, Mich. Safety device for presses. No. 1,399,049; Dec. 6.

Davies, Albert J., Kenogami, Quebec, Canada. Four-degree machine. No. 1,399,608; Dec. 6.

Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining-machine. No. 1,399,380; Dec. 6.

Davis, Edwin G., New York, and D. L. Lindquist, Hartsdale, N. Y., assignors to Otis Elevator Company. Dual system of electrical control embodying the use of main auxiliary source of current-supply. No. 1,399,005; Dec. 6.

Davis, Harold S., Pittsburgh, and W. A. Hamor, New Kensington, Pa., assignors to Texas Gulf Sulphur Company, Bay City, Tex. Distillation of sulfur. No. 1,398,980; Dec. 6.

Day, William L., Williamsport, Pa. Lifting-jack. No. 1,399,693; Dec. 6.

Deagan, J. C., Inc. (See Little, Frederick B., assignor.)

Deal, Ralph B., Flint, Mich. Film-pack kit. No. 1,399,694; Dec. 6.

Deere & Company. (See Huddle, Edwin F., assignor.)

Demarest, Charles S., New York, N. Y., assignor to American Telephone and Telegraph Company. Electrical testing-circuits. No. 1,399,695; Dec. 6.

Denver Rock Drill Manufacturing Company, The. (See Neil, Gustave M., assignor.)

De Roo, Cornelius P., Flint, Mich. Moisture-tester. No. 1,399,696; Dec. 6.

De Vilbiss Endless Film Machine Company. (See McCullough, Paul J., assignor.)

Devrin, Arthur, Jemeppe-Liège, Belgium. Crossbar for tramway-tracks. No. 1,399,050; Dec. 6.

Diamond Match Company, The. (See Elder, W. J., and Morehouse, assignors.)

Diamond Match Company, The. (See Linebaugh, Edward R., assignor.)

Diamond Match Company, The. (See Rudd, Henry A., assignor.)

Diamond Match Company, The. (See Wright, Jacob P., assignor.)

Dietrich, Jerome C., Galt, Ontario, Canada. Handsaw. No. 1,399,009; Dec. 6.

Doble, Abner, Detroit, Mich. Means for atomizing and igniting liquid fuel. No. 1,399,010; Dec. 6.

Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Rail-fastening means. No. 1,399,011; Dec. 6.

Dodds, Ethan I., Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,399,697; Dec. 6.

Dodds, Ethan I., Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,399,698; Dec. 6.

Dodds, Ethan I. (See Stafford, B. E. D., and Dodds.)

Donauer, Max, Elyria, Ohio. Liquid-agitating mechanism. No. 1,399,699; Dec. 6.

Dorr Company, The. (See Bascom, Percy H., assignor.)

Dorsey, Herbert G., Gloucester, Mass. Device for applying chains to wheels in motion. No. 1,399,700; Dec. 6.

Downie, Robert R., assignor to Keystone Driller Co., Beaver Falls, Pa. Tooth for steam-shovels. No. 1,399,337; Dec. 6.

Drew, Joseph A., Cascade, Iowa. Silo-truing device. No. 1,399,717; Dec. 6.

Dunlap, Harley M. (See Putnam, D. M., and Dunlap.)

Du Pont, E. I., de Nemours & Company. (See Burke, C. E., and Barnhart, assignors.)

Du Pont, E. I., de Nemours and Company. (See Cope, Willard C., assignor.)

Dutton, William M. (See Bagley, J. N., and Dutton.)

Dyson, Herbert K., Westminster, London, England. Twisted metal bar for reinforced concrete construction. No. 1,399,701; Dec. 6.

Eades, Herbert S., Philadelphia, Pa. Lathe. No. 1,399,322; Dec. 6.

Eastman Kodak Company. (See Malone, Lester J., assignor.)

Eaton, George M., assignor of one-third to H. G. Bell, Bainbridge, Ga. Battery-box. No. 1,399,702; Dec. 6.

Eaton, Richard M., Niagara Falls, N. Y. Flashlight. No. 1,399,545; Dec. 6.

Eckert, Adolph, assignor to Liquid Carbonic Company, Chicago, Ill. Drink cooling and dispensing fountain. No. 1,398,961; Dec. 6.

Edelman, Philip E., New York, N. Y. Control of reactions. No. 1,399,200; Dec. 6.

Edwards, Louis C., Ellington, Conn. Vest-pocket check-protector. No. 1,399,703; Dec. 6.

Eggenweiler, Charles W., assignor to General Aluminum & Brass Mfg. Company, Detroit, Mich. Lining bearing-backs. No. 1,399,252; Dec. 6.

Elda, Jacob, South Boston, Mass. Cooking-stove. No. 1,399,704; Dec. 6.

Ekeley, John B., and W. B. Stoddard, Boulder, Colo. Obtaining pure tungstates. No. 1,399,705; Dec. 6.

Elder, William J., and C. N. Morehouse, Oswego, N. Y., assignors to The Diamond Match Company, Chicago, Ill. Apparatus for applying adhesive to wrapping-paper. No. 1,399,051; Dec. 6.

Ellis, Lewis M., assignor to Winslow Safety High Pressure Boiler Company, Chicago, Ill. Heating system. No. 1,399,052; Dec. 6.

Ellis, Theodore F., Lena, Ill. Silo. No. 1,399,546; Dec. 6.

Ellison, Otis, deceased, Albuquerque, N. Mex.; B. J. Ellison, administrator. Furniture. No. 1,399,706; Dec. 6.

Ellison, B. J., administrator. (See Ellison, Otis.)

Elwell-Parker Electric Company, The. (See Cochran, Clyde E., assignor.)

Emerson, Paul S., Tottenville, N. Y. Garment-hanger. No. 1,399,707; Dec. 6.

Engel, Godfrey, &c., Brooklyn, assignor to Buffalo Foundry & Machine Co., Buffalo, N. Y. Condenser. No. 1,399,284; Dec. 6.

Enger, Martin A., assignor of one-half to E. Ogden Williams, Minot, Minn. Boiler check shut-off valve. No. 1,399,479; Dec. 6.

England, James W., Lebanon, Mo. Expanding device for wheel-rims. No. 1,399,012; Dec. 6.

Enterprise Manufacturing Company, The. (See Adams, Walter L., assignor.)

Essex Motors, Long Island City, N. Y., and Dalia, assignors.)

Eureka Metal Heel Company, The. (See Jamieson, Morgan, assignor.)

Evans, Isaac, Cleveland Heights, Ohio. Spreading device. No. 1,399,481; Dec. 6.

Ewing, Samuel G., Toledo, Ohio. Sheet-glass-drawing apparatus. No. 1,399,547; Dec. 6.

Fabrizio, Rosario, Springfield, Mass. Window-curtain for street-cars. No. 1,399,202; Dec. 6.

Fahr, Johann G., assignor to Maschinenfabrik Fahr A.-G. Gottmadingen, Germany, Messrs. No. 1,399,043; Dec. 6.

Faltelowitz, Arnold, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., Preserving vegetables, fruit, and the like. No. 1,399,471; Dec. 6.

Fast, Gustave, Mount Washington, Md., assignor of 20 per cent. to C. W. Harvey and 10 per cent. to F. B. Harvey. Resilient gear. No. 1,399,545; Dec. 6.

Feeney, John M., Bridgeport, Conn. Egg-beater. No. 1,399,296; Dec. 6.

Feeney, John M., Bridgeport, Conn. Food-chopper. No. 1,399,295; Dec. 6.

Fekete, Stephen I., and S. G. Baits, assignors to Essex Motors, Detroit, Mich. Automobile-frame member and frame. No. 1,399,201; Dec. 6.

Ferdon, Guy W., Creskill, N. J. Food-press. No. 1,399,708; Dec. 6.

Ferragamo, Salvatore, Santa Barbara, Calif. Surgical appliance. No. 1,399,095; Dec. 6.

Fisher, Merritt L., (See Loveland, J. A., and Fisher.)

Fitch, Benjamin F., Evanston, Ill. Retaining device for elevating-cables. No. 1,399,054; Dec. 6.

Flannery Bolt Company. (See Dodds, Ethan I., assignor.)

Flannery Bolt Company. (See Stafford, B. E. D., and Dodds, assignors.)

Fleemer, Austin E., Columbus, Ohio. Pressure-regulator. No. 1,399,013; Dec. 6.

Fleer, Eugene A. (See Wiedenhoeft, Arthur E., assignor.)

Fleming, John M., Edmonton, Alberta, Canada. Cultivator. No. 1,399,202; Dec. 6.

Flint, Opha H., Clarksburg, W. Va., assignor to The Owens Bottle Company, Toledo, Ohio. Mold-neutering device. No. 1,399,203; Dec. 6.

Ford, John, guardian. (See Livesey, Albert.)

Forsythe, Andrew J., Russiaville, Ind. Yoke. No. 1,399,204; Dec. 6.

Fowler, George E., Joplin, Mo. Piston for internal-combustion engines. No. 1,399,106; Dec. 6.

Frankowski, Henryk, Buffalo, and A. Hoffman, Lackawanna, N. Y. Windshield-cleaner. No. 1,399,107; Dec. 6.

Frantzsen, Arthur. (See Hartwig, William G., assignor.)

French, Frank H., Preston, Iowa. Tandem disk harrow. No. 1,399,607; Dec. 6.

Frey, Ernst, Chur, Switzerland. Block-press. No. 1,399,338; Dec. 6.

Frey, Hannah H., administratrix. (See Frey, Herbert H.)

Frey, Herbert H., deceased; H. H. Frey, administratrix, Chicago, Ill. Level-indicating apparatus. No. 1,399,500; Dec. 6.

Frieman, Jacob G., Chicago, Ill. Vehicle-signal. No. 1,399,339; Dec. 6.

Fulton, James M. (See Zimmerman, Clarence W., assignor.)

Gaffy, Patrick J., Philadelphia, Pa. Explosive. No. 1,399,472; Dec. 6.

Gallagher, John F., Chicago, Ill. Poultry-grit. No. 1,399,206; Dec. 6.

Gardner, Thomas E. (See Touchstone, B. F., Gardner, Bangle, Sullivan, and Hardin.)

Garrett, Carlton M. (See Garrett, Myers A., assignor.)

Garrett, Myers A., Chicago, Ill., assignor to C. M. Garrett, New York, N. Y. Valve mechanism for tank-cars. No. 1,399,609; Dec. 6.

Garrett, William S., Richmond, Va. Portable derrick. No. 1,399,424; Dec. 6.

Garrison, Lyle, St. Louis, Mo., assignor of one-half to L. G. Slocum, Washington, D. C. Self-balling well-tool. No. 1,399,108; Dec. 6.

Gégauff, Charles H., assignor to La Societe Anonyme "Dollfus-Mieg & Cie," Mulhouse, France. Skein-forming and boxing machine. No. 1,399,109; Dec. 6.

General Aluminum & Brass Mfg. Company. (See Zimmerwelter, Charles W., assignor.)

General Chemical Company. (See Adamson, George P., assignor.)

Gates, Major E., Terra Cotta, Ill. Producing ornamental surfaces. No. 1,399,425; Dec. 6.

General Electric Company. (See Tittle, John F., assignor.)

General Motors Corporation. (See Carver, Everett S., assignor.)

General Phonograph Corporation. (See Vassmill, Anthony, assignor.)

General Railway Signal Company. (See Howe, Winthrop K., assignor.)

General Railway Signal Company. (See Preston, Neil O., assignor.)

George, Enoch, Jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Car coupling and draft-yoke connection. No. 1,399,609; Dec. 6.

George, Enoch, Jr., Pittsburgh, and F. H. Miltimer, Aspinwall, assignors to The McConway & Torley Company, Pittsburgh, Pa. Coupling and yoke connection. No. 1,399,610; Dec. 6.

Gerrard, William C., Racine, Wis. Accelerator-pedal. No. 1,399,054; Dec. 6.

Gieseler, Carl, and Hamburg, Germany. Shaft-furnace. No. 1,399,297; Dec. 6.

Gilbert, Alfred, Birmingham, England. Manufacture of book-clips for cards and the like. No. 1,399,554; Dec. 6.

Gilbian Bros. Smelting & Refining Company. (See Howard, Earl H., assignor.)

Gilbert Machine Company. (See Cole, Ira L., assignor.)

Gilbert Machine Company. (See Miller, William L., assignor.)

Globe Pneumatic Engineering Company Limited, The. (See Cawley, J., and Hills, assignors.)

Goddard, George E., assignor to Packard Motor Car Company, Detroit, Mich. Lamp-supporting means for motor-vehicles. No. 1,399,583; Dec. 6.

Godfrey, Raleigh W., assignor of three-fourths to E. S. Hobbs, Oberlin, Ohio. Automatic talking-machine. No. 1,399,110; Dec. 6.

Goecke, Robert F., Elyria, Ohio. Condenser. No. 1,399,611; Dec. 6.

Goodman Manufacturing Company. (See Davis, Charles E., assignor.)

Goosey, Clarence A., Providence, R. I. Spring-ring. No. 1,399,207; Dec. 6.

Gorman, Daniel J., Philadelphia, Pa., assignor to Gorman Fountain and Beverage Manufacturing Corporation, Machine for extracting and dispensing fruit-juices. No. 1,399,474; Dec. 6.

Gorman Fountain and Beverage Manufacturing Corporation. (See Gorman, Daniel J., assignor.)

Gosney, Vance L., New Alexandria, Ohio. Antiskid device for motor-vehicles. No. 1,399,612; Dec. 6.

Gower, Adelbert L., Janesville, Wis. Heating system. No. 1,399,613; Dec. 6.

Grasshorn, Frank H., Milwaukee, Wis. Moving-picture apparatus. No. 1,399,208; Dec. 6.

Graf de la Roche, Friedrich, Garmisch-Partenkirchen, Germany, assignor, by mesne assignments, to The Chemical Foundation Inc., Manufacturing Caoutchouc-like substances. No. 1,399,479; Dec. 6.

Graham, Wilford H. (See MacMinn, A. H., and Graham.)

Grahl, Max C., assignor to Universelle Cigaretten-Maschinen-Industrie System Otto Hergsträsser Aktiengesellschaft, Dresden-Löbtau, Germany. Cigarette-machine. No. 1,399,209; Dec. 6.

Grahl, Max C., Dresden-Löbtau, Germany. Manufacturing cigarette-tubes with hollow mouthpieces. No. 1,399,251; Dec. 6.

Graus, Joseph, Duluth, Minn. Optical-projection lantern. No. 1,399,111; Dec. 6.

Grasselli Chemical Company, The. (See Bowman, Frederick J., assignor.)

Graves, Albert H., deceased, Evanston, Ill., E. L. Graves, executrix. Concealed suspenders. No. 1,398,962; Dec. 6.

Graves, Emma L., executrix. (See Graves, Albert H., assignor.)

Grar, Israel E., Little Silver, N. J. Facial-massage device. No. 1,399,340; Dec. 6.

Greeno, Leslie P., Chicago, Ill. Scraper. No. 1,399,582; Dec. 6.

Greenewald, Eugene L., Washington, D. C. Apparatus for applying cosmetics. No. 1,398,983; Dec. 6.

Greiter, Eb., & Cie. (See Schmiedel, T., and Klaucke, assignor.)

Groves, Joab C., Valley Point, W. Va. Hen's nest. No. 1,399,614; Dec. 6.

Gruss, D., Sons & Company, Tbs. (See Gruss, Frederick G., assignor.)

Gruss, Frederick G., assignor to The D. Gruss, Sons & Company, Cincinnati, Ohio. Swivel. No. 1,399,112; Dec. 6.

Grunwaldt, Max R., Milwaukee, Wis. Auto-signal. No. 1,399,615; Dec. 6.

Gurjian, Agnes B., Los Angeles, Calif. Mop-cleaning device. No. 1,399,341; Dec. 6.

Guserratt, John L., Sedalia, Mo. Track and hanger. No. 1,399,616; Dec. 6.

Guignard, August, and F. Rosiere, Hood River, Oreg. Tractor safety device. No. 1,399,551; Dec. 6.

Gunther, Joseph, and A. Schreiner, East Moline, Ill. Card-stripping mechanism. No. 1,399,510; Dec. 6.

Gunz, Charles H., Oakland, Calif. Combination bed, table, and settee. No. 1,399,443; Dec. 6.

Gwynn, Walter E., assignor to Morse-Andrews Company, Attleboro, Mass. Buckle. No. 1,399,343; Dec. 6.

Gwynn, Herbert J., Yonkers, N. Y. Refrigerator construction. No. 1,399,964; Dec. 6.

Haney, John, *et al.* (See Cozens, George H., assignor.)

Hahn, Arno, Boulder, Mont. Water-circulator. No. 1,399,617; Dec. 6.

Hahn, Clarence L., Baltimore, Md. Box-opener. No. 1,399,618; Dec. 6.

Haines, Joseph, Claypool, Ind. Seed-planter. No. 1,399,475; Dec. 6.

Hall, Alexander, Portsmouth, Ohio. Combination knife and saw. No. 1,399,476; Dec. 6.

Hall, Herbert S., Ellsworth, Me. Hand-operated implement. No. 1,399,113; Dec. 6.

Hamel Shoe Machinery Company. (See Angell, Otis R., assignor.)

Hamel Shoe Machinery Company. (See Pettengill, George M., assignor.)

Hamel Shoe Machinery Company. (See Valois, Felix E., assignor.)

Hamill, Truman W., Merced, Calif. Tire-protector. No. 1,399,553; Dec. 6.

Hamilton, Beauchamp, Woodworth, Incorporated. (See Hamilton, Edward M., assignor.)

Hamilton, Edward M., assignor to Hamilton, Beauchamp, Woodworth, Incorporated, San Francisco, Calif. Extraction of metals from their ores. No. 1,399,554; Dec. 6.

Hammond, John H., Jr., Gloucester, Mass. System of radio-dynamic control. No. 1,399,254; Dec. 6.

Hamor, William A. (See Davis, H. S., and Hamor.)

Hampshire, Harry F., and F. B. Cranmer, Philadelphia, Pa., assignor to Thompson Printing Company, Delivery attachment for printing-presses. No. 1,399,477; Dec. 6.

Harcourt, Stillwell R., assignor to W. W. Kimball Company, Chicago, Ill. Music-sheet guide. No. 1,399,114; Dec. 6.

Hardin, John H. (See Touchstone, B. F., Gardner, Bangle, Sullivan, and Hardin.)

Harding, George W., Oakland, Calif. Fencepost. No. 1,399,426; Dec. 6.

Hardt, Henry H., Gibsonia, Pa. Indicator for baling-presses. No. 1,399,478; Dec. 6.

Harper, Eugene D., assignor of one-half to C. G. Clatworthy, Toronto, Ontario, Canada. Folding garment-holder. No. 1,399,115; Dec. 6.

Hart, Hady, Ballarat East, Victoria, assignor of one-half to I. J. Stewart, Ballarat West, Victoria, Australia. Dyestuff and mode of producing it. No. 1,399,014; Dec. 6.

Hart, Lorren M., New York, N. Y. Amplifying system for a complex sound-vibration source. No. 1,398,965; Dec. 6.

Hartwig, William G., assignor to A. Frantzsen, Chicago, Ill. Electrically-controlled switch mechanism. No. 1,399,116; Dec. 6.

Harvey, Curran W., *et al.* (See Fast, Gustave, assignor.)

Harvey, F. Barton, *et al.* (See Fast, Gustave, assignor.)

Harvey, Richard C., Lethbridge, Alberta, Canada. Machine for docking lambs' tails. No. 1,399,479; Dec. 6.

Harwood, George S., & Son. (See Howe, Joseph B., assignor.)

Hastings, Herbert, Brighton, N. Y. Pressure-gage. No. 1,399,117; Dec. 6.

Hathaway, Edgar F., Boston, Mass. Harness for looms or the like. No. 1,399,298; Dec. 6.

Hatton, Rudolph R. (See Laffer, S. S., and Hatton.)

Haubert, Leo, Muskogee, assignor of one-half to J. A. Wolfe, Tulsa, Okla. Power delivering attachment for automobile-tractors. No. 1,399,344; Dec. 6.

Haun, J. C., Tonopah, Nev., and A. Silver, San Francisco, Calif. Cyaniding precious-metal-bearing materials. No. 1,399,458; Dec. 6.

Häusler, Paul R., Plauen, Germany. Shuttle for embroidering-machines. No. 1,399,056; Dec. 6.

Hawley, Charles G., assignor to Baker Wheel & Rim Company, Chicago, Ill. Wheel for automobiles. No. 1,399,719; Dec. 6.

Heany, John A., New York, N. Y. Incandescent electric lamp. No. 1,399,722; Dec. 6.

Heck, Ferdinand, Dusseldorf-Rath, Germany. Apparatus for making multiple beadings on pipes. No. 1,399,383; Dec. 6.

Heffner, Harry, Cleveland, Ohio. Stovepipe thimble attachment. No. 1,399,619; Dec. 6.

Heilman, Frank, Cleveland, Ohio, assignor to The American Steel and Wire Company, New Jersey. Automatic stop for barb-wire machines. No. 1,399,384; Dec. 6.

Heine Safety Boiler Company. (See Pahmeyer, F. O., and Clay, assignors.)

Heinke, Albert B., Atlanta, Ga. Stocking. No. 1,399,299; Dec. 6.

Heinrichs, Ditmar, Oberursel on Taunus, Germany. Eyelet and hook setting machine. No. 1,399,057; Dec. 6.

Heinze, John O., assignor to Traction Engine Company, Wayne City, Mich. Cylinder construction. No. 1,399,058; Dec. 6.

Heisler, William A., Lancaster, Pa. Automatic feeder for book-stitching machines. No. 1,399,555; Dec. 6.

Hellberg, Harold, West Somerville, Mass. Pocket seal-press. No. 1,399,620; Dec. 6.

Helmond, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,399,480; Dec. 6.

Helmond, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,399,481; Dec. 6.

Henry, Paul Neuilly-sur-Seine, France. Closure-plug for tanks. No. 1,399,345; Dec. 6.

Hermann Tire Building Machine Company, The. (See Hermann, Walter H., assignor.)

Hermann, Walter H., Lancaster, assignor to The Hermann Tire Building Machine Company, Columbus, Ohio. Tire-building machine, (stationary.) No. 1,399,118; Dec. 6.

Hill, Louis A., Washington, D. C. Pneumatic tire. No. 1,399,556; Dec. 6.

Hills, Frank. (See Cawley, J., and Hills.)

Hines, Edwin G., Drums, and C. S. Myers, Hazleton, Pa.; said Myers assignor to said Hines. Draft device. No. 1,399,300; Dec. 6.

Hirschy, Herman C., Minneapolis, Minn. Wringer. No. 1,399,482; Dec. 6.

Hirsh, Fred, New York, N. Y. Adjustable strap-fastening. No. 1,398,966; Dec. 6.

Hist, John, Cleveland, Ohio. Tractor-plow. No. 1,399,301; Dec. 6.

Hobbs, Stanton S. (See Godfrey, Raleigh W., assignor.)

Hodges, Lloyd E., Glendora, Calif. Machine-gun. No. 1,399,110; Dec. 6.

Hoffman, Adolf. (See Frankowski, H., and Hoffman.)

Hollingbery, George, Mayville, Wis. Grizzly-screen. No. 1,399,211; Dec. 6.

Holloway, Jesse F., assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Car-truck. No. 1,399,709; Dec. 6.

Holmes, Charles H. (See Minton, C. J., and Holmes.)

Holste, August, Bielefeld, Germany. Shirt with removable bosom. No. 1,399,255; Dec. 6.

Holste, August, Bielefeld, Germany. Shirt. No. 1,399,256; Dec. 6.

Horubeck, Henry S., Union Hill, N. J. Pneumatic pick-up. No. 1,399,483; Dec. 6.

Houlihan, William J., Prahran, Melbourne, Victoria, Australia. Device for cleansing and polishing the surfaces of floors, walls, windows, and the like. No. 1,399,427; Dec. 6.

Howard, Earl H., assignor to Gilfillan Bros. Smelting & Refining Company, Los Angeles, Calif. Spotlight. No. 1,399,120; Dec. 6.

Howe, Joseph B., Worcester, Mass., assignor to George S. Harwood & Son, Boston, Mass. Card-feeder. No. 1,399,557; Dec. 6.

Howe, Olaf L., Seattle, Wash. Water-motor. No. 1,399,558; Dec. 6.

Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Detector-locking for power interlocking systems. No. 1,399,257; Dec. 6.

Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Electric lock for power-operated switch-machines. No. 1,399,258; Dec. 6.

Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Interlocking system. No. 1,399,259; Dec. 6.

Howie, Kenneth, Philadelphia, assignor to Wildman Mfg. Co., Norristown, Pa. Take-up mechanism for knitting-machines. No. 1,399,121; Dec. 6.

Hoyt, Edgar S., Des Moines, Iowa. Machine for applying tape. No. 1,399,715; Dec. 6.

Huddle, Edwin F., assignor to Deere & Company, Moline, Ill. Elevator roll-support. No. 1,399,559; Dec. 6.

Huff, Gilbert L., St. Louis, Mo. Sheet-delivering mechanism for vending-machines. No. 1,399,385; Dec. 6.

Hughes, Frank C., Chicago, Ill., assignor of one-half to N. Carrico, Sidney, Mont. Electric heater. No. 1,399,428; Dec. 6.

Hughes, Frank C. (See Carrico, Noel, assignor.)

Hughes, Leo L., Washington, D. C. Sound-box. No. 1,399,302; Dec. 6.

Hulit, John A., Chicago, Ill. Recording telegraphic receiving instrument. No. 1,399,429; Dec. 6.

Hull, Edmund M., Buffalo, N. Y. Car unloading or dumping apparatus. No. 1,399,484; Dec. 6.

Hullett, Arthur D., Newport, Tenn. Wrench. No. 1,399,621; Dec. 6.

Hulsmann, Anton, San Francisco, Calif. Artificial-arm frame. No. 1,399,622; Dec. 6.

Humason, Granville A., and J. A. Burtschel, Houston, assignors to Dr. A. L. Miller, Harris county, Tex. Pump. No. 1,398,967; Dec. 6.

Hummel, Frederick E., and J. J. Noeth, Chicago, Ill. Egg-poaching apparatus. No. 1,399,015; Dec. 6.

Hunt, Floyd D., Burlington, Vt. Chair. No. 1,399,623; Dec. 6.

Hurley, Roy T. (See Blodgett, G. R., Cheney, and Hurley.)

Husar, Frank Z., Chicago, Ill. Abdominal support. No. 1,399,386; Dec. 6.

Hyde, John H., Louisville, Ky. Toy vehicle. No. 1,399,212; Dec. 6.

Hymans, Frederick, Glen Ridge, assignor to Otis Elevator Company, Jersey City, N. J. Cushion-brake. No. 1,399,560; Dec. 6.

Imhoff, Karl, Essen-on-the-Ruhr, Germany. Settling-tank for sewage clarification. No. 1,399,562; Dec. 6.

Imhoff, Karl, and H. Blunk, Essen-on-the-Ruhr, Germany. Treating sludge. No. 1,399,561; Dec. 6.

Ink, Rolla N., San Diego, Calif. Segmental casing for tires. No. 1,399,430; Dec. 6.

Inland Company, The. (See Butler, David H., assignor.)

International Precipitation Company. (See Petersen, Alfred, assignor.)

Ivers, John W. (See Mize, Allen J. and J. R., and Ivers.)

Jackson, Charles E., Minneapolis, Minn. Detector-frame. No. 1,399,172; Dec. 6.

Jackson, Cornell, Kalamazoo, Mich. Tamper and tie-inserter tool. No. 1,399,327; Dec. 6.

Jackson, George W., & Fitzpatrick Company. (See Jackson, George W., & Fitzpatrick Company.)

Jackson, George W., & Fitzpatrick Company, assignee, by mesne assignments, to George W. Jackson & Fitzpatrick Company, Chicago, Ill. Supporting-form for concrete and masonry structures. No. 1,399,363; Dec. 6.

Jaskel, Lionel H. A. F., Luton, England. Motor-sleigh. No. 1,399,474; Dec. 6.

Jianopoulos, Stergios, assignor to The Eureka Shield (Ind.) Company. Insoles. Mass. Used for footwear. No. 1,399,345; Dec. 6.

Jarnecke, Pete, Chicago, Ill. Railway-rail support. No. 1,399,123; Dec. 6.

Jenks, John, Alton, Ill. Bottle-conveying machine. No. 1,399,496; Dec. 6.

Jenke, August F., Pittsburgh, Pa. Forming device. No. 1,399,947; Dec. 6.

Jennings, Harry C., Chicago, Ill., assignor to Sullivan Machinery Company. Clamping mechanism. No. 1,399,261; Dec. 6.

Jensen, Otto, Hamburg, Germany. Platen printing-press. No. 1,399,471; Dec. 6.

Johnson, Christian A., and J. P. Carruthers, Denver, Colo. Cleaning device. No. 1,399,253; Dec. 6.

Johnson, Frank M., Millsham, assignor of one-half to Cafferata & Co., Newark-upon-Trent, Nottingham, England. Plaster-slab-molding machine. No. 1,399,440; Dec. 6.

Johnson, George T., New York, N. Y. Hemming-fixture. No. 1,399,425; Dec. 6.

Johnson, Oscar H., and H. F. Webb, assignors to The Mine & Smelter Supply Company, Denver, Colo. Feeder. No. 1,399,124; Dec. 6.

Johnson, William H., Brandon, Vt. Cylinder-grinding machine. No. 1,399,213; Dec. 6.

Jones, Emerald E., assignor to Sure Guard Company, Chicago, Ill. Belt-shifter. No. 1,399,288; Dec. 6.

Jones, John C., Brookline, Mass. Vehicle. No. 1,399,348; Dec. 6.

Jones, Oakey E., Los Angeles, Calif. Lasting-tool holder. No. 1,399,416; Dec. 6.

Jones, Phillip D., assignor of one-half to C. Van Hoose, Los Angeles, Calif. Restaurant-fixture. No. 1,399,133; Dec. 6.

Jukes, Karl, Wattenscheid, near Bochum, Germany. Weighing-machine. No. 1,399,433; Dec. 6.

Juras, Henry W., Pepsinock, N. Y. Relief-valve. No. 1,399,710; Dec. 6.

Kanning, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Combination lighting and ignition switch. No. 1,399,017; Dec. 6.

Kaplan, Victor, Brünn, Austria. Turbine-machine. No. 1,399,059; Dec. 6.

Kapotkin, Herman, New York, N. Y. Soft-water clasp. No. 1,399,248; Dec. 6.

Kappke, Lee H., assignor to Rock Island Plow Company, Rock Island, Ill. Disk harrow. No. 1,399,018; Dec. 6.

Kelley Ticket Machine Company. (See Armitage, George G., assignor.)

Kellington, John, Vancouver, British Columbia, Canada. Depth-filled gaging-machine for cans. No. 1,399,214; Dec. 6.

Kellogg Switchboard and Supply Company. (See Kanning, William, assignor.)

Kelly, James W., Chicago, Ill. Piston-packing ring. No. 1,399,456; Dec. 6.

Kelsey Wheel Company. (See Campbell, Malcolm G., assignor.)

Kelso, William, assignor to The McCaskey & Tooley Company, Pittsburgh, Pa. Coupling and yoke connection. No. 1,399,563; Dec. 6.

Kerr, Charles V., assignor to The American Well Works, Aurora, Ill. Steam-turbine. No. 1,399,215; Dec. 6.

Kerwien, Otto, Minneapolis, Minn. Ventilator. No. 1,399,126; Dec. 6.

Keystone Driller Co. (See Downie, Robert R., assignor.)

Kiefer, Raymond A., Ramsey, N. J. Jar-opener. No. 1,399,349; Dec. 6.

Kilfoyle, Fred M., Storrs, Utah. Clothespin. No. 1,399,060; Dec. 6.

Kimball, W. W., Company. (See Harcourt, Stillwell R., assignor.)

Klein, Benjamin W., New York, N. Y. Service apparatus-equipment and customer's waiting room therefor. No. 1,399,209; Dec. 6.

Kleanza, Hans. (See Schmiedel, T., and Kleanza.)

Kling, Fred E., Youngstown, Ohio. Burr-stay-bar. No. 1,399,127; Dec. 6.

Klocker, Theodore W., Park Ridge, N. J. Internal-combustion engine. No. 1,399,542; Dec. 6.

Kohn, Leo M. (See MacFarland, Allison M., assignor.)

Kopfhamer, Joseph. (See Spoerl, W., and Kopfhamer.)

Kops, Daniel, New York, N. Y. Apparel-support. No. 1,399,446; Dec. 6.

Kops, Daniel, New York, N. Y. Apparel-support. No. 1,399,447; Dec. 6.

Kracht, Gustav, Solingen, Germany. Tin-opener. No. 1,399,061; Dec. 6.

Kranta, Hubert F., assignor to Kranta Manufacturing Company, Inc., Brooklyn, N. Y. Safety starting switch. No. 1,399,488; Dec. 6.

Kranta, Hubert F., assignor to Kranta Manufacturing Company, Inc., Brooklyn, N. Y. Safety cut-out. No. 1,399,489; Dec. 6.

Kranta, Hubert, assignor to Kranta Manufacturing Company, Inc., Brooklyn, N. Y. Electric cutting-out device. No. 1,399,490; Dec. 6.

Kranta, Hubert, assignor to Kranta Manufacturing Company, Inc., Brooklyn, N. Y. Switch-blade and process. No. 1,399,491; Dec. 6.

Kranta, Hubert, assignor to Kranta Manufacturing Company, Inc., Brooklyn, N. Y. Double-switch-blade. No. 1,399,492; Dec. 6.

Kranta, Hubert F., assignor to Kranta Manufacturing Company, Inc., Brooklyn, N. Y. Switch-mechanism. No. 1,399,493; Dec. 6.

Kranta, Hubert F., assignor to Kranta Manufacturing Company, Inc., Brooklyn, N. Y. Switch-mechanism. No. 1,399,494; Dec. 6.

Kranta, Hubert F., assignor to Kranta Manufacturing Company, Inc., Brooklyn, N. Y. Safety-switch-mechanism. No. 1,399,495; Dec. 6.

Kranta, Hubert F., assignor to Kranta Manufacturing Company, Inc., Brooklyn, N. Y. Switch-mechanism. No. 1,399,496; Dec. 6.

Kranta, Hubert F., assignor to Kranta Manufacturing Company, Inc., Brooklyn, N. Y. Switch-mechanism. No. 1,399,497; Dec. 6.

Kranta, Hubert F., assignor to Kranta Manufacturing Company, Inc., Brooklyn, N. Y. Switch-mechanism. No. 1,399,498; Dec. 6.

Kranta Manufacturing Company. (See Kranta, Hubert F., assignor.)

Kreps, Jesse F., Pittsburgh, Pa. Oil-burner. No. 1,399,476; Dec. 6.

Kriegsmann, Alfred, Provinzialhaus, Westphalia, Germany. Hand-pedaling coaster-brake. No. 1,399,721; Dec. 6.

Kruse, John, San Martin, Calif. Vehicle-drive mechanism. No. 1,399,340; Dec. 6.

Kugel, August. (See Schroeder, C., and Kugel.)

Kurtz, Henry A. F., Brooklyn, N. Y. Curtain-fixture for lamps or similar articles. No. 1,399,284; Dec. 6.

Kurtz, Charles J., San Diego, Calif. Irrigation-valve. No. 1,399,434; Dec. 6.

Kussel, Charles R., Clarksdale, Ariz. Manufacturing Milestone. No. 1,399,500; Dec. 6.

La Grant, John H. (See Bailey, F. L., and La Grant.)

La Société Anonyme Dollfus-Mieg & Cie. (See Gessauff, Charles H., assignor.)

Lamb, Harold E., Los Angeles, Calif. Oil-burner. No. 1,399,505; Dec. 6.

Lambert, Henry M., Portland, Oreg. Apparatus for use in making cushion-tires. No. 1,399,124; Dec. 6.

Landis Navigations-Instrument Aktiebolag. (See Lundmark, Johannes, assignor.)

Lantz, Ferdinand, Hamburg, Germany. Valved controlling apparatus for outboard ballast and fuel tanks. No. 1,399,262; Dec. 6.

Lapsley, Howard G., Plainfield, N. J. Radiator-cover. No. 1,399,455; Dec. 6.

Larsen, Lewis, Brooklyn, assignor to Smith Electric Company, New York, N. Y. Electromagnet. No. 1,399,350; Dec. 6.

Larson, Edward, Grand Forks, N. D. Car-door operator. No. 1,399,427; Dec. 6.

Lauh, Henry F., Logan, Utah. Dummy-switch. No. 1,399,129; Dec. 6.

Lautenschlager, William F., Cincinnati, Ohio, assignor to L. Mutter, Newton, Mass. Folding machine. No. 1,399,294; Dec. 6.

Lay, Oscar M., Seattle, Wash. Wrench. No. 1,399,295; Dec. 6.

Lazarus, Isaac, assignor to Parlantino O. Co., Fr. G. m. b. H., Berlin, Germany. Propeller-screen. No. 1,399,464; Dec. 6.

Leahy, Bernard, Woodside, N. Y. Clothes-drier for hot-water boilers. No. 1,399,721; Dec. 6.

Ledoux, William A., assignor to The Mine and Smelter Supply Company, Denver, Colo. Reducing-valve. No. 1,399,570; Dec. 6.

Lederman, Joseph, assignor to Edward O. Dodd Manufacturing Company, Philadelphia, Pa. Channel-structure for museum-panels. No. 1,399,571; Dec. 6.

Lee, Frederick E., A. L. McCallum, and E. G. Blaylock, Trail, British Columbia, assignors to The Consolidated Mining & Smelting Company of Canada, Limited, Montreal, Quebec, Canada, a Corporation of Canada. Extraction of zinc. No. 1,399,060; Dec. 6.

Lee, William E., Cleveland, Ohio. Frame for handling motor-vehicle wheels. No. 1,399,231; Dec. 6.

Leiser, Saul S., and R. R. Hatton, Coney Island, N. Y. Heaters for bathtubs. No. 1,399,352; Dec. 6.

Lelmann, Johannes, assignor to the Firm of Carl Zeiss, Jena, Germany. Cinematographic apparatus. No. 1,399,247; Dec. 6.

Lelmecke, Minnie C., widow. (See Lelmecke, Charles E.)

Lelmecke, Charles E., deceased, Detroit, Mich.; B. C. Lelmecke, widow. Lighting-fixture. No. 1,399,562; Dec. 6.

Lenk, John W., Evanston, Ill. Refrigerating-pitch. No. 1,399,063; Dec. 6.

Levy, Samuel J., London, England. Electrical measurement apparatus. No. 1,399,713; Dec. 6.

Lewine, Nathan A., Brooklyn, N. Y. Gage-lamp. No. 1,399,554; Dec. 6.

Lewitt, Ephraim, Westmount, Quebec, Canada. Treating ball-and-race-bearing elements. No. 1,399,418; Dec. 6.

Lewitt, Ephraim, Westmount, Quebec, Canada. Locomotive-cab. No. 1,399,417; Dec. 6.

Lewis, Fred L., assignor to Rhodes Harvester Company, Spokane, Wash. Conveyer. No. 1,399,136; Dec. 6.

Lewis, Harry B., Brooklyn, assignor to Bowman & Potter Company, New York, N. Y. Lens-leaf blades. No. 1,399,510; Dec. 6.

Lewis, Randall H., Richmond, Va. Means-supply means for cylinders of railway-locomotives. No. 1,399,111; Dec. 6.

Liberman, Charles, New York, N. Y. Lock. No. 1,399,569; Dec. 6.

Lilljeqvist, Gustaf O. (See Birkland, C. S., and Lilljeqvist.)

Lindine, Edna A., Spokane, Wash. Oil-burner. No. 1,399,218; Dec. 6.

Lindquist, Birger W., assignor to The Vixen Company, Detroit, Mich. Trimming-blanks. No. 1,399,133; Dec. 6.

Lindquist, David L. (See Davis, S. G., and Lindquist.)

Linscott, Edward R., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Sheet-register-ing device. No. 1,399,084; Dec. 6.

Lipps, Byron C., assignor to Packard Motor Car Company, Detroit, Mich. Metal tool. No. 1,399,219; Dec. 6.

Lloyds Carbonic Company. (See Eckert, Adolph, assignor.)

Little, A. E., Company. (See Little, Alexander E., assignor.)

Little, Alexander E., assignor to A. E. Little Company, Lynn, Mass. Shoe. No. 1,399,430; Dec. 6.

Little, Charles C., San Jose, Calif. Carburetor. No. 1,399,253; Dec. 6.

Little, Frederick B., assignor to J. C. Deagan, Inc., Chicago, Ill. Chime-operating apparatus. No. 1,399,072; Dec. 6.

Little, Lucius F., Owensboro, Ky. Apparatus for making flour and meal. No. 1,399,477; Dec. 6.

Lloyd, Harry, New York, N. Y. Bed-spring. No. 1,399,701; Dec. 6.

Lobaugh, Albert, Grinnell, Iowa, by J. Ford, guardian. Rat-trap. No. 1,399,631; Dec. 6.

Lodge, James J., New York, N. Y. Electrical protective device. No. 1,399,502; Dec. 6.

Loeser, Emil L., Watertown, Wis. Game. No. 1,399,133; Dec. 6.

Lofdahl, Carl A. (See Lofdahl, Charles J. and C. A.)

Lofdahl, Charles J. and C. A., Joliet, Ill. Plane-scraper. No. 1,399,641; Dec. 6.

Long, John R., assignor to The Akron Wrench and Vise Company, Akron, Ohio. Vise. No. 1,399,682; Dec. 6.

Loomis, Allen, assignor to Packard Motor Car Company, Detroit, Mich. Carburetor. No. 1,399,045; Dec. 6.

Lorenzo, Vicente G., Habana, Cuba. Preparation for the neutralization of the acids and the precipitation of salts contained in waters. No. 1,399,206; Dec. 6.

LoTurp, Marcus T., assignor to The Timken Roller Bearing Company, Canton, Ohio. Pyrometer-switch. No. 1,399,184; Dec. 6.

Loukus, Charles O., Mandan, Mich. Double-acting four-cycle explosion-engine. No. 1,399,354; Dec. 6.

Loveland, James A., & M. L. Parker, Kalamazoo, Mich. Light-deflector. No. 1,399,185; Dec. 6.

Lowenger, Fritz, Berlin-Halensee, and W. Pinell, Siemensstadt, near Berlin, Germany, assignor, by mesne assignments, to Western Electric Company, Inc., New York, N. Y. Telephone-exchange system. No. 1,399,695; Dec. 6.

Lowsley, Reginald, Hamilton, Ontario, Canada. Wrench. No. 1,399,455; Dec. 6.

Lund, Charles W., Willows, Calif. Street-sweeping brush. No. 1,399,624; Dec. 6.

Lundmark, Johannes, Askim, Sweden, assignor to Laulo Navigations-Instrument Aktiebolaget, Gottenborg, Sweden. Screwdriver with gripping arrangement for holding the screws. No. 1,399,635; Dec. 6.

Lundquist, Hendrick W., San Diego, Calif. Automatic advertising-machine. No. 1,399,435; Dec. 6.

Lyth, Edward C., Watertown, N. Y. Glare-reflector. No. 1,399,556; Dec. 6.

McCallum, Arthur L. (See Lee, F. E., McCallum, and Blaylock.)

McCarthy, Charles S., Jr., Sandusky, assignor, by means assignments, to The Motor Macultivator Company, Toledo, Ohio. Cultivator. No. 1,399,021; Dec. 6.

McCluskey, Daniel J., Berkeley, Calif. Spring-wheel. No. 1,399,229; Dec. 6.

McConway & Torley Company, The. (See George, E., Jr., and Milliken, assignors.)

McConway & Torley Company, The. (See George, Enoch, Jr., assignor.)

McConway & Torley Company, The. (See Kelso, William.)

McCool, Edward F., Cleveland, Ohio. Pulverizing-mill. No. 1,399,697; Dec. 6.

McCrae, George, Brantford, Ontario, Canada. Cylindrical kiln and drier. No. 1,399,543; Dec. 6.

McCullough, Paul J., assignor to De Vilbiss Endless Film Machine Company, St. Louis, Mo. Motion-picture machine. No. 1,399,244; Dec. 6.

McCutchen, Brunson E., Plainfield, N. J. Wringer. No. 1,399,305; Dec. 6.

McCutchen, Brunson E., Plainfield, N. J. Wringer. No. 1,399,504; Dec. 6.

McGovern, Daniel F., Montpelier, Vt. Polishing-wheel. (Reissue.) No. 15,245; Dec. 6.

McIver, William K., Elgin, Ill., assignor, by mesne assignments, to Stewart-Warner Speedometer Corporation, Chicago, Ill. Lighting system and means for controlling the same. No. 1,399,505; Dec. 6.

McLaren, Alexander, Brooklyn, N. Y. Signaling device for automobiles. No. 1,399,136; Dec. 6.

McLellan, Samuel T. (See Thayer, H. G., and McLellan.)

McMichael, James D., assignor to American Wood Working Machinery Company, Rochester, N. Y. Pressure-guard for woodworking-machines. No. 1,399,137; Dec. 6.

MacFarland, Allison M., Wilkinsburg, Pa., assignor to L. M. Kohn, Buffalo, N. Y. Sheet-folding machine. (Reissue.) No. 15,242; Dec. 6.

MacMinn, Alexander H., and W. H. Graham, Portland, Me. Safety switch-lock. No. 1,399,221; Dec. 6.

Madarasczion, Prodromos, and A. Paulick, Dresden, Germany. Sledge-velocipede. No. 1,399,158; Dec. 6.

Magee, John H., Carthage, Mo. Wall construction or wall. No. 1,399,222; Dec. 6.

Magri, Giuseppe, Turin, Italy. Apparatus for distilling fuel and bituminous rocks. No. 1,399,267; Dec. 6.

Mahn, C. Hohman. (See Rogers, Samuel R., assignor.)

Malm, Axel C. V., Philadelphia, assignor to The Pennsylvania Paper Products Company, Pittsburgh, Pa. Machine for forming tubular containers. No. 1,399,636; Dec. 6.

Malone, Lester J., assignor to Eastman Kodak Company, Rochester, N. Y. Making colored nitrocellulose compositions. No. 1,399,357; Dec. 6.

Manly, Charles M., Buffalo, N. Y. Motor-vehicle. (Reissue.) No. 15,243; Dec. 6.

Mansbendel, Frits P., Brooklyn, assignor to Ultra Earphone Co., Inc., New York, N. Y. Telephone-apparatus. No. 1,399,208; Dec. 6.

Mansfield, George F., Pascagoula, Miss. Rainproof hood-cover for automobiles. No. 1,399,358; Dec. 6.

Marczynski, Peter, Milwaukee, Wis. Draft-regulator. No. 1,399,637; Dec. 6.

Marquette Piano Company, The. (See Wilcox, Russell I., assignor.)

Marshall, Sylvester, Athens, Ohio. Grading or separating machine. No. 1,399,022; Dec. 6.

Marston, John R., Clarkdale, Ariz. Manufacture of cadmium pigment. No. 1,399,506; Dec. 6.

Martin, Haskon A., Whitestone, N. Y., assignor to The National Cash Register Company, Dayton, Ohio. Slip printing and registering machine. No. 1,399,291; Dec. 6.

Marx, Richard, Philadelphia, Pa. Furnace. No. 1,399,638; Dec. 6.

Marx, Wilhelm E., Berlin-Spandau, Germany. Change-speed gear. No. 1,399,130; Dec. 6.

Maschinenfabrik Fahr A.-G. (See Fahr, Johann G., assignor.)

Matsuoka, Chokichi, Los Angeles, Calif. Making agar-agar. No. 1,399,350; Dec. 6.

Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Conductor clamp. No. 1,399,140; Dec. 6.

Maynes, Emma C. (See Maynes, Hyla F., assignor.) (Reissue.)

Maynes, Hyla F., assignor of one-half to E. C. Maynes, Gaines, Pa. Amusement apparatus. (Reissue.) No. 15,244; Dec. 6.

Meek, William F., Tampico, Mexico. Barrel-protector. No. 1,399,569; Dec. 6.

Meisel, Charles A., assignor to Meisel Press Manufacturing Company, Dorchester, Mass. Printing-press. No. 1,399,360; Dec. 6.

Meisel Press Manufacturing Company. (See Meisel, Charles A., assignor.)

Melvin, Charles P., assignor to The Melvin-Lloyd Company, Youngstown, Ohio. Laundry-stove. No. 1,399,439; Dec. 6.

Melvin Lloyd Company, The. (See Melvin, Charles P., assignor.)

Merkel, Arthur E. (See Bayliss, Jerome Z., assignor.)

Merkins, Jacob S., Grand Junction, Colo. Automatic tympan-gage. No. 1,399,141; Dec. 6.

Meyer, Henry, Rhineland, Mo. Tractor. No. 1,399,639; Dec. 6.

Meyer, Otto, Chicago, Ill. Drum-ear. No. 1,399,392; Dec. 6.

Meyfarth, Gottlieb L., Geneva, Switzerland. Control of electromagnetic track-brake systems. No. 1,399,361; Dec. 6.

Miller, A. D. (See Rystedt, Ingemar K., assignor.)

Miller, August M., Mankato, Minn. Meat-smoking apparatus. No. 1,399,362; Dec. 6.

Miller, Dr. A. L. (See Humason, G. A., and Burtschel, assignors.)

Miller, Edward & Company. (See Allworth, Arthur B., assignor.)

Miller, Franklin A., and B. M. Tanner, St. Anthony, Idaho. Collapsible camp-bed frame. No. 1,399,363; Dec. 6.

Miller, Max, New York, N. Y. Ball-cavity blower. No. 1,399,068; Dec. 6.

Miller, William L., assignor to Gisholt Machine Company, Madison, Wis. Reamer-head. No. 1,399,142; Dec. 6.

Milliken, Isaac H. (See George, E., Jr., and Milliken.)

Millner, Edgar, St. Louis, Mo. Heater for gasoline-supply pipes. No. 1,399,331; Dec. 6.
Mills, American C., Jr., executor; Minnie C. Mills executrix, Rochester, N. Y. Dental engine. No. 1,399,607; Dec. 6.
Mills Belt Company. (See Batchelder, Frank R., assignor.)
Mills, Herbert S. (See Sandel, Henry K., assignor.)
Mills, Minnie C. executrix. (See Mills, American C., Jr., executor.)
Mine & Smelter Supply Company, The. (See Johnson, O. H., and Webb, assignors.)
Ming and Smelter Supply Company, The. (See Ledbell, William A., assignor.)
Mine & Smelter Supply Company, The. (See Thompson, Charles K., assignor.)
Minerals Separation North American Corporation. (See Wilkinson, Miltoft W., assignor.)
Mistone, C. J., & C. H. Holmes, Gage, Okla. Hasp and latch. No. 1,399,640; Dec. 6.
Mitchell, J. E., & D. Parks, St. Louis, Mo. Heel-blank building. No. 1,399,508; Dec. 6.
Mize, Allen J., J. R., and J. W. Ivers, Oklahoma, Okla. Automobile-tilting frame. No. 1,399,641; Dec. 6.
Mize, James R. (See Mize, Allen J. and J. R., and Ivers.)
Mizuchy, David, Pittsburgh, Pa. Vehicle reverse-lock. No. 1,399,509; Dec. 6.
Moeller, Willy, Hamburg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Making tanning materials. No. 1,399,510; Dec. 6.
Molenda, Henry. (See Wiernikowski, Ignacy, assignor.)
Moline Plow Company. (See O'Connor, Peter J., assignor.)
Molnar, Julius, New York, N. Y. Holder for toilet articles. No. 1,399,305; Dec. 6.
Mond, Albert, London, England. Glass chemical ware. No. 1,399,934; Dec. 6.
Monroe Calculating Machine Company. (See Phinney, Edgar E., assignor.)
Moore, James R., Tarrytown, assignor of one-half to C. L. Cassidy, New York, N. Y. Headlight. No. 1,399,973; Dec. 6.
Moore, Thomas J., Washington, D. C. Door-spring. No. 1,399,642; Dec. 6.
Moquist, Peter, Minneapolis, Minn. Flue-block for stoves and the like. No. 1,399,611; Dec. 6.
More, John F. (See Stranahan, James F., assignor.)
Moran, John A., Brooklyn, N. Y. Gun-disappearing apparatus. No. 1,399,305; Dec. 6.
Morehouse, Charles N. (See Elder, W. J., and Morehouse.)
Morgan, George F., New York, N. Y. Axle. No. 1,398,069; Dec. 6.
Moriarty, Daniel F., Holyoke, assignor of one-half to F. A. Champlin, East Longmeadow, Mass. Light-deflecting means for headlights. No. 1,399,143; Dec. 6.
Morrison, Harry G., *et al.* (See Davenport, Hudson A., assignor.)
Morse-Andrews Company. (See Guyot, Walter T., assignor.)
Mosler, Moses, New York, N. Y., and C. Bartels, Hamilton, Ohio, assignor to The Mosler Safe Company, New York, N. Y. Safe. No. 1,399,512; Dec. 6.
Mosler Safe Company, The. (See Mosler, M., and Bartels, assignors.)
Motor Macultivator Company, The. (See McCarthy, Charles S., Jr., assignor.)
Mullen & Pope Screen Company. (See Pope, Edward J., assignor.)
Müller, George, Wurttemberg, Germany. Device for use with nails. No. 1,399,306; Dec. 6.
Munhollon, Frank, Cleveland, Ohio. Firing kilns. No. 1,399,070; Dec. 6.
Murray, Joseph B. (See Murray, Thomas E., Jr., and J. B.)
Murray, Richard, New York, N. Y. Building block or slab. No. 1,399,023; Dec. 6.
Murray, Thomas E., Brooklyn, N. Y. Method of and means for cooling electrical conductors when inclosed in conduits of concrete or the like. No. 1,399,509; Dec. 6.
Murray, Thomas E., Brooklyn, N. Y. Producing conduits, &c. No. 1,399,508; Dec. 6.
Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electrode for electrical welding machines. No. 1,399,507; Dec. 6.
Muther, Lorenz. (See Lautenschlager, William F., assignor.)
Myers, Charles S. (See Hines, E. G., and Myers.)
Myers, Edward C., Seattle, Wash. Tractor. No. 1,399,570; Dec. 6.
Myers, Eugene V., East Orange, N. J., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Dust-cap. No. 1,399,310; Dec. 6.
Myers, Eugene V., East Orange, N. J., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Dust-cap. No. 1,399,311; Dec. 6.
Nagai, Nagayuki, Tokyo-fu, Japan, assignor to M. Dick Bunnell, San Francisco, Calif. Synthetic anesthetic and making same. No. 1,399,312; Dec. 6.
Nagai, Wilhelm N., Tokyo, Japan, assignor to M. D. Bunnell, San Francisco, Calif. Synthetically-compounded drug product and producing the same. No. 1,399,144; Dec. 6.
Neary, Charles E., Binghamton, N. Y. Bicycle-sleigh attachment. No. 1,399,643; Dec. 6.
Nagler-Bliss Company, The. (See Bettenmeyer, Frederick W., assignor.)
Nassie, James O., Seattle, Wash. Door-checking device. No. 1,399,145; Dec. 6.
National Grain Company. (See Dye, Harold, assignor.)
National Cash Register Company, The. (See Martin, Hankee A., assignee.)
Naujoks, Rudolph, Los Angeles, Calif. Radiator. No. 1,399,149; Dec. 6.
Neale, Andrew J., Mountain Lakes, N. J. Rail-joint. No. 1,399,209; Dec. 6.
Nellson, Thomas, London, England. Heating, cooling, and ventilating apparatus. No. 1,399,147; Dec. 6.
Nellson, Thomas, London, England. Heating, cooling, or ventilating apparatus. No. 1,399,148; Dec. 6.
Nell, Gustave M., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Fluid-operated motor. No. 1,399,224; Dec. 6.
Nelson, Erik W., New Rochelle, N. Y. Photographic-film-printing apparatus. No. 1,399,396; Dec. 6.
Nevey, Frank A., Los Angeles, Calif. Radiator. No. 1,399,571; Dec. 6.
Newell, Louis B., assignor to Carr-Lowrey Glass Company, Baltimore, Md. Bottle. No. 1,399,813; Dec. 6.
Nielsen, Nicolai B., and E. G. Brant, Milwaukee, Wis. Window-ventilator. No. 1,399,135; Dec. 6.
Nielsen, Niels D., Tyrta, Ohio. Liquid-agitating mechanism. No. 1,399,944; Dec. 6.
Nicholson, Charles H., Brooklyn, N. Y. Test-indicator. No. 1,399,314; Dec. 6.
Noeth, John J. (See Hammel, F. E., and Noeth.)
Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Diestock. No. 1,399,297; Dec. 6.
Nowak, Frank, assignor of one-third to S. N. Pond, Chicago, Ill. Indian-club. No. 1,399,671; Dec. 6.
Nussbaum, Joseph, assignor to P. K. Sharples Company, Philadelphia, Pa. Packaging and sealing perishable articles and the product thereof. No. 1,399,276; Dec. 6.
Nuubson, Ole C., Duluth, Minn. Oven. No. 1,399,149; Dec. 6.
Nyberg, Albert F., Minneapolis, Minn. Egg-beater. No. 1,399,513; Dec. 6.
Oakes, Arcadia, assignor to Square D Company, Detroit, Mich. Electrical switch and producing the same. No. 1,399,364; Dec. 6.
Oakes, Miles H. (See Brauser, O. H., and Oakes.)
Ocampo, Carlos J., Los Angeles, Calif. Sheet-metal fastener. No. 1,399,115; Dec. 6.
O'Conner, Peter J., Poughkeepsie, N. Y., assignor to Moline Plow Company. Tractor connection for agricultural implements. No. 1,399,072; Dec. 6.
Ode, Peter, near Arcanum, Ohio. Band-cutter and feeder for threshing-machines. No. 1,399,271; Dec. 6.
Odhner, Valentin J., Gottenborg, Sweden. Arresting means for the shifting-cranks of calculating-machines. No. 1,399,645; Dec. 6.
Ogle, Frank, Philadelphia, Pa. Pressure-gage for pneumatic tires. No. 1,399,272; Dec. 6.
Ohio Brass Company, The. (See Matthes, Samuel S., assignor.)
Olsen, Nells D., Waterloo, Iowa. Adjustable frame for saw-blades. No. 1,399,316; Dec. 6.
Oltman, Albert, Eureka, Ill. Farm-gate. No. 1,399,372; Dec. 6.
Oppman, Joseph, Connellsville, Pa. Rope-clamp. No. 1,399,647; Dec. 6.
Oppman, Joseph, Pittsburgh, Pa. Interlocking link. No. 1,399,646; Dec. 6.
Ordnance Engineering Corporation. (See Bergman, Axel G., assignor.)
Ortgies, Heinrich, Erfurt, Germany. Self-loading pistol. No. 1,399,224; Dec. 6.
Osgood, Robert C., Claremont, N. H., assignor to Sullivan Machinery Company. Axle-box. No. 1,399,398; Dec. 6.
Otis Elevator Company. (See Davis, E. G., and Lindquist, assignors.)
Otis Elevator Company. (See Hymans, Frederick, assignor.)
Ott, Merle E., Clear Lake, Iowa. Funnel. No. 1,399,130; Dec. 6.
Owen, Brice, Los Angeles, Calif. Motor-vehicle lock. No. 1,399,514; Dec. 6.
Owens Bottle Company, The. (See Flint, Opie H., assignor.)
Owens Bottle Company, The. (See Whittemore, James, assignor.)
Packard Motor Car Company. (See Goddard, George E., assignor.)
Packard Motor Car Company. (See Lipps, Evrah C., assignor.)
Packard Motor Car Company. (See Lovejoy, Allen, assignor.)
Packard Motor Car Company. (See Vincent, James, assignor.)
Pahmeyer, Frederick O., and S. B. Clay, assignors to Hydraulic Safety Boiler Company, St. Louis, Mo. Beveling-machine. No. 1,399,073; Dec. 6.
Parks, Dennis. (See Mitchell, J. E., and Parks.)
Parson, Howard E., Calgary, Alberta, Canada. Connector. No. 1,399,400; Dec. 6.
Partello, Charles, Liverpool, N. Y. Hook. No. 1,399,648; Dec. 6.

Pascal, Charles, Montreal, Quebec, Canada. Rail-chair. No. 1,399,572; Dec. 6.
Paulick, Andreas. (See Majaroglou P., and A. Paulick.)
Payne, Oscar V., Cleveland, Ohio, assignor to Auto Ordnance Corporation, New York, N. Y. Gun. No. 1,399,440; Dec. 6.
Pearson, Florent J., Troy, Ohio. Fruit-sizing apparatus. No. 1,399,317; Dec. 6.
Pellet, Auguste V., assignor to Pellet Magneto Co., Chicago, Ill. Device for cleaning spark-plugs. No. 1,399,255; Dec. 6.
Pellet Magneto Co. (See Pellet, Auguste V., assignor.)
Pellew, Arthur, assignor to American Optical Company, Southbridge, Mass. Lens-grinder. No. 1,399,400; Dec. 6.
Penland, George T., Gastonia, N. C. Tension device. No. 1,399,649; Dec. 6.
Pennsylvania Paper Products Company, The. (See Malm, Axel C. V., assignor.)
Perdue, Giles A., Wilmington, Del. Coin-collecting and change-making device. No. 1,399,650; Dec. 6.
Perkins, Robert B., Oklahoma, Okla. Transmission mechanism. No. 1,399,573; Dec. 6.
Periantino, O. Ce. Pe G. m. b. H. (See Lazarus, Isaac, assignor.)
Perrew, Bryce B., Tacoma, Wash. Display-box. No. 1,399,273; Dec. 6.
Perry, Frank W., Los Angeles, Calif. Earth-auger. No. 1,399,074; Dec. 6.
Pesci, Adolfo, Trieste, Italy. Composition for preventing incrustation in steam-boilers. No. 1,399,651; Dec. 6.
Peterson, Alfred, Frankfort-on-the-Main, Germany, assignor to International Precipitation Company, Los Angeles, Calif. Means for cleaning the electrodes in electrical fume-precipitators. No. 1,399,441; Dec. 6.
Pettengill, George M., Haverhill, Mass., assignor to Hamel Shoe Machinery Company. Channeling shoe-soles. No. 1,399,024; Dec. 6.
Phelps, Sebring I., Wilmette, Ill. Electric water-heater. No. 1,399,515; Dec. 6.
Philipps, Frank, Hammond, Ind. Collapsible ironing-board stand. No. 1,399,574; Dec. 6.
Phinney, Edgar E., West Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Setting-up means for calculating machines. No. 1,399,652; Dec. 6.
Phoenix Hermetic Company. (See Taliaferro, Thomas L., assignor.)
Pierce, Clarence A., Lowell, Mass. Bobbin-stripper. No. 1,399,025; Dec. 6.
Pillings, John H., Hamilton, Ohio. Mechanism for automatically operating typewriter-levers and the like. No. 1,399,365; Dec. 6.
Pinell, Walter. (See Lubberger, F., and Pinell.)
Pittsburgh Gage & Supply Company. (See Wappat, Fred W., assignor.)
Pond, Samuel N. (See Nowak, Frank, assignor.)
Pope, Edward J., St. Joseph, Mich., assignor to Mullen & Pope Screen Company. Revolving screen. No. 1,399,653; Dec. 6.
Porter, Nellie, administratrix. (See Porter, Thomas.)
Porter, Thomas, deceased, by Nellie Porter, administratrix, Millin township, Allegheny county, Pa. False sill for open-hearth furnace doors. No. 1,399,516; Dec. 6.
Posson, Edward, Chicago, Ill. Compound hand-brake mechanism. No. 1,399,075; Dec. 6.
Posson, Edward, Chicago, Ill. Compound hand-brake mechanism. No. 1,399,076; Dec. 6.
Posson, Edward, Chicago, Ill. Draft-arm construction for railway-cars. No. 1,399,077; Dec. 6.
Posson, Edward, Chicago, Ill. Compound brake mechanism. No. 1,399,078; Dec. 6.
Posson, Edward, Chicago, Ill. Refrigerator-car. No. 1,399,079; Dec. 6.
Postal, Ernest J., Grand Rapids, Mich. Phonograph-motor. No. 1,399,517; Dec. 6.
Potter, Wilbur C. (See Stines, E. H., and Potter.)
Premier Motor Corporation of America, The. (See Brownback, Henry L., assignor.)
Preston, Nell D., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Signaling system for single-track railways. No. 1,399,725; Dec. 6.
Price, William G., Yakima, Wash. Gravity-carrier. No. 1,399,518; Dec. 6.
Printing Utilities Company. (See Brügmann, William F., assignor.)
Privett, Charles R., *et al.* (See Privett, Henry C., assignor.)
Privett, Helen E., *et al.* (See Privett, Henry C., assignor.)
Privett, Henry C., Long Beach, assignor of one-half to C. R. Privett, Burbank, three-sixteenths to H. E. Privett, and one-sixteenth to H. F. Privett, Long Beach, Calif. Inner tube. No. 1,399,575; Dec. 6.
Privett, Hollis F., *et al.* (See Privett, Henry C., assignor.)
Prym, August, Büsbach, near Stolberg, Germany. Fastening of the spring-sockets of press-buttons. No. 1,399,319; Dec. 6.
Putnam, Delmer M., and H. M. Dunlap, Battle Creek, Mich. Air-compressor. No. 1,399,151; Dec. 6.
Quarittus, William, Vicksburg, Miss. Luminous lure for animal-traps. No. 1,399,518; Dec. 6.
R. & G. Company. (See Anderson, Edward L., and L. A., assignors.)
Radimak, Steven, New York, N. Y. Tree-sawing machine. No. 1,399,274; Dec. 6.
Randle, Joe B., Columbus, Miss. Belt. No. 1,399,654; Dec. 6.
Randabaugh, Israel E., Celina, Ohio. Wall construction. No. 1,399,320; Dec. 6.
Rector, Enoch, New York, N. Y., assignor, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn. Burner-cleaner. No. 1,399,655; Dec. 6.
Rector, Enoch, New York, N. Y., assignor, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn. Pilot-light-burner control. No. 1,399,656; Dec. 6.
Redfern, Thomas, Kearney, N. J. Carbureter-control means for gas-engines. No. 1,399,519; Dec. 6.
Reimann, Jacques, Erdington, Birmingham, England. Tube-rolling mill. No. 1,399,401; Dec. 6.
Rennerfelt, Ture G., Stockholm, Sweden. Friction-gearing. No. 1,399,442; Dec. 6.
Rennerfelt, Ture G., Stockholm, Sweden. Friction-gearing. No. 1,399,442; Dec. 6.
Renos, Frank G., Akron, Ohio. Tire-casing. No. 1,398,975; Dec. 6.
Rettenmeyer, Frederick W., assignor to The Napier-Bliss Company, Meriden, Conn. Mesh-bag. No. 1,399,576; Dec. 6.
Reyburn, John R., Fairfield, Conn., assignor to American Chain Company, Inc. Support for vehicle-bumpers. No. 1,399,520; Dec. 6.
Rheinische Metallwaaren- und Maschinenfabrik. (See Völler, Karl, assignor.)
Rhoades Harvester Company. (See Lewis, Fred G., assignor.)
Rhodes, William A., New York, N. Y., assignor to American Telephone and Telegraph Company. Electrothermal relay. No. 1,399,226; Dec. 6.
Rich Tool Company. (See Sullivan, William B., assignor.)
Richards, George A., Pueblo, Colo. Charge-heater for explosive-motors. No. 1,399,321; Dec. 6.
Richey, James L., Cincinnati, Ohio. Means for lubricating leaf-springs. No. 1,399,152; Dec. 6.
Riehl, Henry E., Brooklyn, N. Y. Pleasure-railway. No. 1,399,577; Dec. 6.
Riner, Lisle L., Greenville, Iowa. Sectional hog-feeder. No. 1,399,716; Dec. 6.
Hinsche, Frank C., assignor to Burroughs Adding Machine Company, Detroit, Mich. Device for displaying cards. No. 1,399,444; Dec. 6.
Roberts, Arthur, Evanston, Ill., assignor to American Coke & Chemical Company, Chicago, Ill. Heating-wall for coke-ovens and the like. No. 1,399,275; Dec. 6.
Roberts, David E., Buffalo, N. Y., assignor to The Beaver Company. Drier for plaster-board. No. 1,399,276; Dec. 6.
Roberts, Fant, Eldorado, Kans. Pump. No. 1,399,402; Dec. 6.
Robertson, H. H., Company. (See Young, James H., assignor.)
Robischon, Michael F., Utica, N. Y. Machine for unravelling knitted goods and winding the yarn. No. 1,399,657; Dec. 6.
Rock Island Plow Company. (See Kaupke, Lee H., assignor.)
Rocke, John, Pontiac, assignor, by mesne assignments, to A. Wochner, trustee, McLean county, Ill. Belt-guide. No. 1,399,578; Dec. 6.
Rodger, John, Philadelphia, Pa. Thread and yarn friction-guide. No. 1,399,521; Dec. 6.
Rogers, Samuel R., assignor of one-half to C. Tobman Mann, De Soto, Mo. Spring-insole for shoes. No. 1,399,153; Dec. 6.
Rohrs, Frederick W., Rosedale, Md. Motor-fuel. No. 1,399,227; Dec. 6.
Rosier, Charles, New York, N. Y. Tie-slip. No. 1,399,579; Dec. 6.
Rosiger, Fred. (See Guignard, A., and Rosiger.)
Ross, Frank A., Spokane, Wash. Hand-crank. No. 1,399,445; Dec. 6.
Ross, Harry B., assignor of three-fourths to H. A. Clarke, Denver, Colo. Drink-mixing machine. No. 1,399,080; Dec. 6.
Roth, Gilbert A., Hastings, Nebr. Luggage-carrier. No. 1,399,154; Dec. 6.
Rothen, Charles, Geneva, Switzerland. Watchcase. No. 1,399,322; Dec. 6.
Rothrock, William J., Wilmington, Del. Tube holder and ejector. No. 1,399,580; Dec. 6.
Rowe, David L., East Parsonfield, Me. Wheel-alinement gage. No. 1,399,228; Dec. 6.
Rudd, Henry A., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Machine for making card-matches. No. 1,399,081; Dec. 6.
Rudnicki, Antoni, Chicago, Ill. Rocking-chair. No. 1,399,155; Dec. 6.
Runne, Henry G., assignor of one-half to C. L. Townsend, Rochester, N. Y. Folding clothesrack. No. 1,399,156; Dec. 6.
Rupe, Hans, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Quaternary base of the camphor series and making same. No. 1,399,082; Dec. 6.
Russ, August, Belleville, N. J. Automatic force-feed lubricator. No. 1,399,522; Dec. 6.

Ryder, Elmer, Argo, Ill. Cut-out valve. No. 1,398,876; Dec. 6.

Sargent, Ingomar K., assignor of one-half to A. D. Miller, Dayton, Ohio. Silencer for automotive equipment. No. 1,398,197; Dec. 6.

Seal, Henry G. (See Stafford, Frederick S., assignor.)

Seidle, Louis L., New York, N. Y. Camstand, band and scarf. No. 1,398,523; Dec. 6.

Serafino, Antonio L., assignor to Beer Manufacturing Company, Rock Island, Ill. Antiskid device. No. 1,399,088; Dec. 6.

Sewall, Henry E., Chicago, Ill. Sound-reproducing apparatus. No. 1,399,405; Dec. 6.

Shadell, Henry A., assignor to H. S. Mills, Chicago, Ill. Sound-box. No. 1,398,404; Dec. 6.

Sanders, Myron J., Hailmont, Idaho. Stall attachment. No. 1,399,459; Dec. 6.

Shaner, Emil J., West New York, N. J. Automobile-signal. No. 1,399,524; Dec. 6.

Saunders, Cecil L., G. A. Stanley, and C. W. Burnett, Ithaca, N. Y. Fireproof vaginle. No. 1,398,620; Dec. 6.

Savs, Paul, Toulouse, France. Granulating calcium cyanamid. No. 1,398,940; Dec. 6.

Saxton, Thomas G., New York, N. Y. Fastening. No. 1,398,981; Dec. 6.

Sayh, James, Brooklyn, N. Y. Amusement device. No. 1,399,507; Dec. 6.

Sayh, James, Brooklyn, N. Y. Amusement device. No. 1,399,149; Dec. 6.

Schaad, Arthur G., Detroit, Mich. Process and machine for forming cutters. No. 1,399,595; Dec. 6.

Schanne, Gustavus A. (See Wilkins, George S., assignor.)

Scher, Louis S., New York, N. Y. Telephone-outlet. No. 1,399,963; Dec. 6.

Schermerhorn, John L., assignor to American Transformer Company, Newark, N. J. Electric controlling apparatus. No. 1,399,084; Dec. 6.

Schmidt, William F., Green Bay, Wis. Automatic grease plug lock. No. 1,399,045; Dec. 6.

Schmieden, Theodor, Nürnberg-Doos, and H. Kienzle, Frankfort-on-the-Main, Germany, assignors to Ad. Greitert & Cie., Basel, Switzerland. Production of anthranic acid without chambers and towers. No. 1,398,526; Dec. 6.

Schneider, Anthony. (See Gumber, J., and Schneider.)

Schneider, Frederick T., New York, N. Y. Window-fastener. No. 1,399,277; Dec. 6.

Schoelkopf, Alfred P., Lake Park, Iowa. Window. No. 1,399,424; Dec. 6.

Schrader's, A., Son Incorporated. (See Myers, Eugene V., assignor.)

Schrago, Morris M., Los Angeles, Calif. Sewing-machine. No. 1,399,050; Dec. 6.

Schroeder, Charles, Nellsville, and A. Kuehl, Milwaukee, Wis. Clothespin. No. 1,398,981; Dec. 6.

Schroeder, Karl W. H., Leipzig-Reudnitz, Germany. Imitation water-fall. No. 1,398,983; Dec. 6.

Schwabach, Georg, Charlottenburg, near Berlin, Germany. Removing material to be dumped, &c. No. 1,398,864; Dec. 6.

Scott, George W., Santa Rosa, Calif. Quick-detachable dust-cap. No. 1,398,807; Dec. 6.

Scott, Walter W., Amsterdam, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Fabric-guiding device for sewing-machines. No. 1,398,461; Dec. 6.

Scott, William H., and J. Bentley, Norwich, England. System of control for electric motors operating cranes and analogous apparatus. No. 1,399,054; Dec. 6.

Secord, Frank B., et al. (See Cassin, George B., assignor.)

Segal Metal Products Company. (See Segal, Samuel, assignor.)

Segal, Samuel, assignor to Segal Metal Products Company, Inc., New York, N. Y. Lock. No. 1,399,185; Dec. 6.

Segal, Samuel, assignor to Segal Metal Products Company, Inc., New York, N. Y. Cylinder-lock. No. 1,399,149; Dec. 6.

Seigle, William R., New York, N. Y. Forming tubes of felted fibrous material. No. 1,399,387; Dec. 6.

Selleck, Silas E., assignor of one-third to T. J. Selleck, Cold Spring, N. Y. Timer. No. 1,399,824; Dec. 6.

Selleck, Theodore J. (See Selleck, Silas E., assignor.)

Sellens, Francis C., London, England, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Coke-grate stoker. No. 1,398,977; Dec. 6.

Seuter, Carl U., Los Angeles, Calif. Soda-fountain faucet. No. 1,399,347; Dec. 6.

Service Cloth Pleating Company, The. (See Whyte, John, assignor.)

Servoss, Willard S., Briercrest, Saskatchewan, Canada. Weed burner and eradicator. No. 1,399,228; Dec. 6.

Sévigné, Henri A., Winthrop, Mass. Paraffining-machine. No. 1,399,160; Dec. 6.

Seymour, William, Paterson, N. J. Reinforced building unit. No. 1,398,988; Dec. 6.

Shadbolt, William O., Brooklyn, N. Y. Truck. No. 1,398,683; Dec. 6.

Shapiro, Samuel, Philadelphia, Pa. Combination-tool. No. 1,399,665; Dec. 6.

Sharpless, P. K., Company. (See Nusbaum, Joseph, assignor.)

Shelton, Frederick A., Chicago, Ill. Brush. No. 1,399,056; Dec. 6.

Shelton, James T., Cooper, Tex. Pneumatic hand-pad. No. 1,399,584; Dec. 6.

Shipe, Draper W., Empire Hwy. Engineer. No. 1,398,998; Dec. 6.

Shives, Arvel D., Gothrie, Neb. Insecticide and the like. No. 1,398,546; Dec. 6.

Shivers, Seraphia, Omaha, Nebr. Wall-plug. No. 1,398,467; Dec. 6.

Shive, Albert. (See Rose, J. C., and Shive.)

Shuttleworth, Paul F., Buffalo, N. Y. Automatic train control. No. 1,399,027; Dec. 6.

Siemens, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, System of control. No. 1,398,918; Dec. 6.

Silkstone Dairy, Spokane, Wash. Bottle. No. 1,399,440; Dec. 6.

Simmons, Paul R. Huntington, Ind. Milk-bottle-capping machine. No. 1,399,496; Dec. 6.

Singer Manufacturing Company, The. (See Oliva, Edward H., assignor.)

Smith, Charles J., Chicago, Ill. Toy automobile. No. 1,399,047; Dec. 6.

Smith, Emil A., Detroit, Mich. Advertising device. No. 1,399,498; Dec. 6.

Smith, Lena G. (See Garrison, Lyle, assignor.)

Smith, Franklin S., Philadelphia, Pa. Apparatus for treating artificial or disruptive conduction. No. 1,398,141; Dec. 6.

Smith, Franklin S., Philadelphia, Pa. Apparatus for treating products by disruptive conduction. No. 1,398,162; Dec. 6.

Smith, Henry C., St. Marys, Ohio. Tool-driving machine. No. 1,398,579; Dec. 6.

Smith, Hesket T., Oxnard, Calif. Tool-wrench. No. 1,398,988; Dec. 6.

Smith, James H., Jr., Cuttyhunk, and C. A. Wilson, Passaic, N. J. Composition of matter. No. 1,398,979; Dec. 6.

Smith, Watson R., Jackson, Mich. Spring structure. No. 1,399,028; Dec. 6.

Smith, Watson R., Jackson, Mich. Spring structure. No. 1,399,029; Dec. 6.

Smith, Watson R., Jackson, Mich. Spring structure. No. 1,399,030; Dec. 6.

Smith, Willard A., Melrose, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Button-sewing machine. No. 1,399,347; Dec. 6.

Smith, William N. (See Weir, Arthur B., assignor.)

Snow, George E., Plymouth, Mass. Antiskid device. No. 1,399,165; Dec. 6.

Society of Chemical Industry in Basle. (See Hupe, J. Hans, assignor.)

Somers, Frank, Indiana Harbor, Ind. Filling-machine. No. 1,399,538; Dec. 6.

Sorvnson, Harry N., Toledo, Ohio. Door-buffer. No. 1,399,104; Dec. 6.

Spanoch, William, Elmer, Minn., and J. Kaufhamer, Canonovia, Wis. Artificial arm. No. 1,398,941; Dec. 6.

Spencer, Ira H., West Hartford, assignor to The Spencer Turbine Company, Hartford, Conn. Cleaning apparatus. No. 1,398,165; Dec. 6.

Spencer, Neal W., Black Falls, S. D. Instrument for aeroplanes. No. 1,398,859; Dec. 6.

Spencer Turbine Company, The. (See Spencer, Ira H., assignor.)

Sperry, Elmer A., Brooklyn, N. Y., assignor to Sperry Gyroscope Company. Gyroscope roll and pitch record. No. 1,398,855; Dec. 6.

Sperry Gyroscope Company, The. (See Cassin, George B., assignor.)

Sperry Gyroscope Company. (See Sperry, Elmer A., assignor.)

Spiller, Russell. (See Singer, Martin A., assignor.)

Spinner, George F., Rochester, N. Y. Arch-support. No. 1,398,447; Dec. 6.

Stallorf Electrical Company. (See Tomlinson, Edward J., assignor.)

Stearns, Frederick P., et al. (See Davenport, Hudson A., assignor.)

Springer, Franklin W., Minneapolis, Minn. Sparking-plug for internal-combustion engines. No. 1,398,185; Dec. 6.

Squire-Dole Company. (See Baines, Arnold, assignor.)

Stafford, Benjamin C. D., and E. I. Inskip, assignors to Mahoney Ball Company, Pittsburgh, Pa. Staybolt structure. No. 1,398,613; Dec. 6.

Stafford, Frederick S., assignor to H. G. Seal, Chicago, Ill. Wheel. No. 1,398,411; Dec. 6.

Stanley, George C. (See Saunders, C. L., Stanley, and Beckett.)

Stechhart, Bruno, Chicago, Ill. Reversing-switch. No. 1,399,411; Dec. 6.

Steinmetz, Franz, Hanover, Germany. Precipitating vinasse. No. 1,399,547. Dec. 6.

Stone, Thorwald C., Jacksonville, Fla. Shears. No. 1,398,923; Dec. 6.

Sternad, Andrew, Chicago, Ill. Corn cleaning and sorting machine. No. 1,398,412; Dec. 6.

Stonerwall, Phillip, Milwaukee, Wis. Door-fastening. No. 1,399,167; Dec. 6.

Stewart, Isabella J. (See Hart, Eady, assignor.)

Stewart, James R., Minneapolis, Minn. Weed-killer. No. 1,399,529; Dec. 6.

Stewart, Reid T., Pittsburgh, Pa. Fuel-supply system for internal-combustion engines. No. 1,399,520; Dec. 6.

Stewart Warner Speedometer Corporation. (See McIver, William K., assignor.)

Stiles, Edward H., and W. C. Potter, New Brunswick, N. J. Arm for knitting machines. No. 1,399,279; Dec. 6.

Stivers, George M., Dixon, Calif. Armored pneumatic tire. No. 1,399,214; Dec. 6.

Stoddard, William H. (See Bixley, J. B., and Stoddard.)

Stoker, Robert H., Houston, Ohio. Pump. No. 1,399,503; Dec. 6.

Stone, Horace G., Chicago, Ill. Propelling-wheel for tractors and other vehicles. No. 1,399,415; Dec. 6.

Strassheim, James F., Pittsburg, assignor of one-half to J. F. Mora, Pittsburg, Calif. Resilient tire. No. 1,399,670; Dec. 6.

Straub, Francis J., New Kensington, Pa. Machine for making building-blocks. No. 1,399,320; Dec. 6.

Strunk, John W., Spokane, Wash. Pneumatic trainbrake. No. 1,399,240; Dec. 6.

Sullivan, David M. (See Tomlinson, B. F., Gardner, Bangle, Sullivan, and Harris.)

Sullivan Machinery Company. (See Johnson, Harry C., assignor.)

Sullivan Machinery Company. (See Osgood, Robert C., assignor.)

Sullivan, William B., assignor to Rich Tool Company, Chicago, Ill. Hardened steel tool. No. 1,399,414; Dec. 6.

Summit Electric Company. (See Larson, Louis, assignor.)

Surry Gourd Company. (See Jones, Emerald K., assignor.)

Taft, Geoffrey M. S., Washington, D. C. Container and cap therefor. No. 1,398,971; Dec. 6.

Taliaferro, Thomas L., assignor to Phoenix Hermetic Company, Chicago, Ill. Apparatus for drying lithographed metal sheets. No. 1,398,415; Dec. 6.

Tanner, Bertrand M. (See Miller, F. A., and Tanner.)

Tapella, Gaetano C., Brookline, Mass. Operating-table. No. 1,399,694; Dec. 6.

Taylor, Ernest I. (See Creek, Antonio, assignor.)

Taylor, Garfield, Duluth, Minn. Cable-expeller. No. 1,399,579; Dec. 6.

Taylor, James C., Jefferson, S. D. Stovepipe and chimney clamp. No. 1,399,672; Dec. 6.

Temple, William, Bedlington, England. Device for withdrawing wire-rope and for like purposes. No. 1,399,779; Dec. 6.

Texas Gulf Sulphur Company. (See Davis, H. S., and Hasner.)

Thayer, Harry G., and S. T. McLellan, assignors of one-third to L. D. Truslow, Charleston, W. Va. Sectional boiler. No. 1,399,675; Dec. 6.

Thiel, Peter H., Keswick, Iowa. Harrow lifting and clearing device. No. 1,400,715; Dec. 6.

Thomas, John A., Colmsbie, Ohio. Apparatus for preventing spontaneous combustion in coal piles. No. 1,399,496; Dec. 6.

Thompson, Charles F., assignor to The Mine & Smelter Supply Company, Denver, Colo. Table-tilting mechanism. No. 1,399,021; Dec. 6.

Thompson, Harold B. (See Thompson, William O., assignor.)

Thompson, William O., assignor of one-half to H. B. Thompson, Spokane, Wash. Cutter. No. 1,399,448; Dec. 6.

Thomson Printing Company. (See Hampshire, H. F., and Cranmer, assignors.)

Thorsen, Sverre, Gaarder, Gudbrandsdal, Norway. Stump-pulling apparatus. No. 1,399,097; Dec. 6.

Tiffany & Co. (See Carter, Edward S., assignor.)

Timken Roller Bearing Company, The. (See Lothrop, Marcus T., assignor.)

Tomlinson, Edward J., assignor to Splitdorf Electrical Company, Newark, N. J. Phonograph-stop. No. 1,399,227; Dec. 6.

Touchstone, Benjamin F., T. S. Gardner, J. A. Beagle, D. M. Sullivan, and J. C. Harman, Greensboro, N. C. Dyeing and apparatus therefor. No. 1,398,220; Dec. 6.

Towle, William J., St. Paul, Minn. Liquid-containing can. No. 1,399,188; Dec. 6.

Townsend, Charles L. (See Bonner, Henry C., assignor.)

Trane, Russell A., assignor to Buckeye Iron and Brass Works, Dayton, Ohio. Machine for forming oil cakes. No. 1,398,169; Dec. 6.

Traction Engine Company. (See Heinse, John O., assignor.)

Trobitsch, Harry S., New York, N. Y. Stencil-printing apparatus. No. 1,398,998; Dec. 6.

Treiberey, Lazra C., Stratford Ontario, Canada, Cake-cutter. No. 1,399,449; Dec. 6.

Trimble, Fred M., Hampshire, Nebr. Chain fastener and tightener. No. 1,399,669; Dec. 6.

Trinks, Franz, Brunswick, Germany. Paper-strip feed for adding-machines. No. 1,399,450; Dec. 6.

Tritle, John F., Schenectady, N. Y., assignor to General Electric Company. Circuit-interrupter. No. 1,399,982; Dec. 6.

Tritle, John F., Schenectady, N. Y., assignor to General Electric Company. Disruption of electric arcs. No. 1,398,981; Dec. 6.

Troxel, Harvey H., Ashland, Ohio. Resilient heel and tread insert. No. 1,399,238; Dec. 6.

Troxel, Harvey H., Ashland, Ohio. Washing-machine. No. 1,399,451; Dec. 6.

Tyndale, Grover C., Draper, N. C. Mixer. No. 1,399,500; Dec. 6.

Truslow, Lewis D. (See Thayer, H. G., and McLellan, assignors.)

Tungsten Products Company, The. (See Bleecker, Warren P., assignor.)

Turner, Harry, Sr., Glenelg, South Australia, Australia. Hose and other clamp. No. 1,399,416; Dec. 6.

Ufert, Walter B., Jamaica, N. Y. Brake attachment. No. 1,399,581; Dec. 6.

Uhde, Fritz, Braulau, Germany. Cooling-tower. No. 1,399,057; Dec. 6.

Ulrich, Edward R., Chicago, Ill. Sterilizing device. No. 1,399,984; Dec. 6.

Ultra Earphone Co. (See Mansbendel, Fritz P., assignor.)

Underwood Typewriter Company. (See Helmond, William P., assignor.)

Union Special Machine Company. (See Scott, Walter W., assignor.)

United Shoe Machinery Corporation. (See Smith, Willard A., assignor.)

Universal Rim Company. (See Baker, Eric K., assignor.)

Universelle Cigaretten-Maschinen-Industrie System Otto Bergstrasser Aktiengesellschaft. (See Gruhl, Max C., assignor.)

Valois, Félix E., Haverhill, Mass., assignor to Hamel Shoe Machinery Company. Drive mechanism. No. 1,399,035; Dec. 6.

Van Amber, John R., Watertown, N. Y. Glare-stop. No. 1,399,673; Dec. 6.

Van Hoose, Clyde. (See Jones, Phillip D., assignor.)

Vandercook, Robert O., Evanston, Ill. Non-slip driving means. No. 1,399,320; Dec. 6.

Vandevelde, Paul V., Corona, N. Y. Burglar-alarm. No. 1,399,170; Dec. 6.

Vassalli, Anthony, Newark, N. J., assignor, by mesne assignments, to General Phonograph Corporation, New York, N. Y. Turntable for talking-machines. No. 1,399,171; Dec. 6.

Vaughan, Alexander S., Oak Park, Ill. Tool-handle-holding means. No. 1,399,172; Dec. 6.

Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Register, &c. No. 1,399,417; Dec. 6.

Veeder Manufacturing Company, The. (See Veeder, Curtis H., assignor.)

Veenschoten, Vincent V., Erie, Pa. Fluid-pressure system. No. 1,399,280; Dec. 6.

Veenschoten, Vincent V., Erie, Pa. Feed-water regulator. No. 1,399,281; Dec. 6.

Vincent, Jesse, assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,399,093; Dec. 6.

Vixson Company, The. (See Lindquist, Birger W., assignor.)

Völler, Karl, Dusseldorf, assignor to Rheinische Metallwaaren und Maschinenfabrik, Düsseldorf-Derendorf, Germany. Center-pivot-gun carriage. No. 1,399,674; Dec. 6.

Voth, Walter P., Willoughby, Ohio. Winding and unwinding apparatus. No. 1,398,984; Dec. 6.

Wadewitz, Alfred W., Schleisingerville, Wis. Leaf-holder. No. 1,399,675; Dec. 6.

Wadley, Calvin P., Buffalo, N. Y. Coupling device for water-heaters, &c. No. 1,398,985; Dec. 6.

Waggoner, Melancthon B., Cedar Rapids, Iowa. Therapeutic apparatus. No. 1,399,676; Dec. 6.

Walter, Richard, Villach, Austria, assignor, by mesne assignments, to The Chemical Foundation, Inc. Diaphragm for electrolytical cells. No. 1,399,531; Dec. 6.

Wappat, Fred W., Pittsburgh, Pa., assignor to Pittsburgh Gage & Supply Company. Shock-absorber for reversing mechanism. No. 1,399,173; Dec. 6.

Warner Manufacturing Company. (See Cadman, Addi B., assignor.)

Warnock, Wallace S., Chicago, Ill. Steam-producer. No. 1,398,986; Dec. 6.

Waterbury Clock Co. (See Wehinger, Frederick, assignor.)

Waterloo Chemical and Manufacturing Company, The. (See Brauser, O. H., and Oakes, assignors.)

Watson, Strother, Gallatin, Tenn. Marker for corn-planters. No. 1,399,677; Dec. 6.

Watts, George W., Hot Springs, Ark. Domestic cooking vessel. No. 1,398,994; Dec. 6.

Webb, Arthur B., assignor to W. N. Smith, Chicago, Ill. Endless track mechanism for vehicles. No. 1,399,369; Dec. 6.

Webb, Henry F. (See Johnson, O. H., and Webb.)

Webb, Jean P., Sr., New York, N. Y. Vacuo-thermic body-treatment appliance. No. 1,399,006; Dec. 6.

Weems, Chester N., Library, Pa. Reflector for head-lamps. No. 1,398,987; Dec. 6.

Wehinger, Frederick, assignor to Waterbury Clock Co., Waterbury, Conn. Chime and strike clock movement. No. 1,399,452; Dec. 6.

Wehner, Heinrich, Frankfort-on-the-Main, Germany. Device for separating gases from hot water. No. 1,399,592; Dec. 6.

Welch, Mary M., McGill, Nev. Curtain-rod. No. 1,400,678; Dec. 6.

Wenyon, John T., Harrisburg, Pa. Converting scrap metal into merchant-bars. No. 1,399,679; Dec. 6.

Wepner, Samuel, Rutherford, N. J. Headwear. No. 1,399,726; Dec. 6.

Wessels, Daniel D., Detroit, Mich. Molded receptacle. No. 1,399,174; Dec. 6.

Western Electric Company. (See Lubberger, F., and Pinell, assignors.)

Westinghouse Electric and Manufacturing Company. (See Caunt, Lewis W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Simmon, Karl A., assignor.)
Wetmar, Harry, Toronto, Ontario, Canada. Oil burner. No. 1,[illegible],036; Dec. 6.
Wexler, Irving, New York, N. Y. Convertible garment. No. 1,399,594; Dec. 6.
White, Rollin H., Cleveland Heights, assignor to The Cleveland Tractor Company, Euclid, Ohio. Track-laying tractor. No. 1,399,370; Dec. 6.
White, Wilfrid O., West Newton, Mass. Prism. No. 1,399,390; Dec. 6.
White, William M., Milwaukee, Wis. Electrical boiler. No. 1,[illegible],175; Dec. 6.
Whitehead, Thomas Blackpool, England. Spinning-ring carrier. No. 1,399,415; Dec. 6.
Whiting, Bradford H., Chicago, Ill., assignor to Whiting Corporation, Harvey, Ill. Teapot-spout ladle. No. 1,399,532; Dec. 6.
Whiting Corporation, Harvey, Ill. (See Whiting, Bradford H., assignor.)
Whittemore, James, Detroit, Mich., assignor to The Owens Bottle Company, Toledo, Ohio. Means for conveying glass to molds. No. 1,399,176; Dec. 6.
Whyte, John, Chicago, assignor, by mesne assignments, to The Service Cloth Pleating Company, Evanston, Ill. Pleating-machine. No. 1,399,231; Dec. 6.
Wiedenhoeft, Arthur E., assignor to E. A. Fiser, Chicago, Ill. Light-fixture. No. 1,399,232; Dec. 6.
Wiernikowski, Ignacy, New York, N. Y., assignor of forty-five per cent. to H. Molenda, Ollie, Mont. Window-lock. No. 1,399,177; Dec. 6.
Wierusz-Kowalski, Mieczyslaw v., Leipzig, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Systematically sulfurating the juices obtained during the manufacture of sugar. No. 1,399,533; Dec. 6.
Wilcox, Russell I., assignor to The Marquette Piano Company, Chicago, Ill. Tune-selector for automatic pianos. No. 1,398,988; Dec. 6.
Wildman Mfg. Co. (See Howie, Kenneth, assignor.)
Wilkinson, Eltoft W., San Francisco, Calif., assignor to Minerals Separation North American Corporation, New York, N. Y. Ore concentration. No. 1,398,989; Dec. 6.
Wilkinson, Eltoft W., San Francisco, Calif., assignor to Minerals Separation North American Corporation, New York, N. Y. Ore concentration. No. 1,398,990; Dec. 6.
Will, Anton, Chicago, Ill. Combined phonograph-cabinet and table. No. 1,399,097; Dec. 6.
Williams, Frank E., and O. S. Barnum, Alhambra, Calif. Necktie clasp. No. 1,399,233; Dec. 6.
Williams, William G., Elgin, Ill. Chiropractic table. No. 1,399,419; Dec. 6.
Wilputte, Alice A. (See Wilputte, Louis, assignor.)
Wilputte, Louis, assignor of two-thirds to A. A. Wilputte, New Rochelle, N. Y. Coke-oven door and doorway. No. 1,399,534; Dec. 6.
Wilputte, Louis, assignor of two-thirds to A. A. Wilputte, New Rochelle, N. Y. Coke-oven wall construction. No. 1,399,[illegible]; Dec. 6.
Wilson, Clarence A. (See Smith, J. H., Jr. and Wilson.)
Winslett, William H., Nixon, Tex. Windmill. No. 1,[illegible],[illegible]; Dec. 6.
Winslow, Harvey L., Waterbury, Conn. Checker. No. 1,[illegible],[illegible]; Dec. 6.
Winslow Safety High Pressure Boiler Company. (See Ellis, Lewis M., assignor.)
Winslow Safety High Pressure Boiler Company. (See Winslow, William H., assignor.)
Winslow, William H., assignor to Winslow Safety High-Pressure Boiler Company, Chicago, Ill. Oil-burning system. No. 1,[illegible],234; Dec. 6.
Winter, Courtney P., New Brunswick, N. J. Folding-machine. No. 1,399,098; Dec. 6.
Winter, Oscar, Philadelphia, Pa. Table-top protector. No. 1,399,371; Dec. 6.
Witham, George S., Jr., Ausable Forks, N. Y., assignor to G. A. Schanze, Cleveland, Ohio. Safety-indicator for internal-combustion engines. No. 1,399,534; Dec. 6.
Wochner, Adolph, trustee. (See Rocks, John, assignor.)
Woerner, Robert, Mannheim, Germany. Machine for pressing cigars. No. 1,399,235; Dec. 6.
Wolfe, John A. (See Haubert, Leo, assignor.)
Wolf, Aaron H., New York, N. Y. Gas-burner. No. 1,[illegible],178; Dec. 6.
Wright, Jacob P., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Box-filling machine. No. 1,399,099; Dec. 6.
Yale & Towne Manufacturing Company. (See Rector, Enoch, assignor.)
Yamashita, Okiye, Tokyo, Japan. Device for increasing boiler efficiency. No. 1,399,236; Dec. 6.
Young, James H., assignor to H. H. Robertson Company, Pittsburgh, Pa. Fire-resisting asphalt or like hydrocarbonaceous material. No. 1,398,941; Dec. 6.
Zahn, Joseph A., Astoria, assignor to E. Berthold, Jamaica, N. Y. Igniter. No. 1,399,727; Dec. 6.
Zeiss, Firm of Carl. (See Lehmann, Johannes, assignor.)
Zimmerman, Clarence W., Venango, Nebr., assignor of one-half to James M. Fulton, Holyoke, Colo. Tire-deflation indicator. No. 1,398,902; Dec. 6.
Zinn, Jacob H., Indianapolis, Ind. Sewer-structure invert section. No. 1,399,454; Dec. 6.
Zipfel, Alphons, Lachen, Switzerland. Weaving-heald and manufacturing the same. No. 1,399,237; Dec. 6.
Zucker, Gottlieb F., Chicago, Ill. Gas-engine. No. 1,399,283; Dec. 6.
Zuelzer, Georg, Charlottenburg, near Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Making means for reducing blood-pressure. No. 1,[illegible],535; Dec. 6.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Alpha Phi Alpha Fraternity. (See McGhee, Normal L., assignor.)
American Fabrics Company, The. (See Page, Samuel H., assignor.)
American Fabrics Company, The. (See Philips, Hans A., assignor.)
Atherley, Harry C. and J. E., San Francisco, Calif. Combined telephone-cover and lamp-stand. No. 59,882; Dec. 6.
Atherley, James E. (See Atherley, Harry C. and J. E.)
Avery, True M., Glens Falls, N. Y. Lifting-jack. No. 59,883; Dec. 6.
Bassick Manufacturing Company, The. (See Guilborg, Arthur V., assignor.)
Brandt, Carl, assignor to Winslow Bros. & Smith Co., Boston, Mass. Leather. No. 59,884; Dec. 6.
Chase Companies, The. (See Recker, Adolph C., assignor.)
Clark, Edward C. (See Clark, William C. and E. C., and Wehrheim.)
Clark, William C. and E. C., Wellston, and L. Wehrheim, St. Louis, Mo. Plant-protector. No. 59,885; Dec. 6.
Columbia Graphophone Manufacturing Company. (See Roberts, Theodore C., assignor.)
East, Richard C., Evanston, Ill. Costumer. No. 59,886; Dec. 6.
Electro Dental Manufacturing Company. (See Russell, Percy, assignor.)
Electro Dental Manufacturing Company. (See Russell, P., Schramm, and Woodward, assignors.)
Estate Stove Company, The. (See Kahn, Bertrand B., assignor.)
Fageol Motors Company. (See Kelly, Isaac J., assignor.)
Freeman, Alida G., Great Neck, N. Y. Blank for changeable-crape sport-hats. No. 59,887; Dec. 6.
Friedley-Voshardt Co. (See Mohrmann, Paul, assignor.)
Grayson, John H., assignor to The J. H. Grayson Manufacturing Company, Athens, Ohio. Gas-heater. No. 59,888; Dec. 6.
Grayson, J. H., Manufacturing Company, The. (See Grayson, John H., assignor.)
Guilborg, Arthur V., Chicago, Ill., assignor, by mesne assignments, to The Bassick Manufacturing Company. Lubricator-nipple. No. 59,889; Dec. 6.
Hanlh, Almon, Los Angeles, Calif. Doll. No. 59,893; Dec. 6.
Hickey, Eugene N., East Rochester, N. Y. Toy. No. 59,894; Dec. 6.
Hall, Robert E., Jr., Tifton, Ga. Coupon. No. 59,890; Dec. 6.
Halsey, Blanche, Milton Center, Ohio. Statuette. No. 59,891; Dec. 6.
Hancock, John W., Denver, Colo. Face of a ceiling electric-light reflector. No. 59,892; Dec. 6.
Kahn, Bertrand B., assignor to The Estate Stove Company, Hamilton, Ohio. Stove. No. 59,895; Dec. 6.
Karp, Henry J., Faribault, Minn. Clock-stand. No. 59,896; Dec. 6.
Keely, Harry V., Brooklyn, N. Y. Toy runabout. No. 59,898; Dec. 6.
Kelly, Isaac J., assignor to Fageol Motors Company, Oakland, Calif. Motor-bonnet. No. 59,897; Dec. 6.
Kohlberg, Morris J., Denver, Colo. Incense-burner or candlestick. No. 59,899; Dec. 6.
McCaul, George, Portsmouth, Va. Emblem, pin, badge, or similar article. No. 59,903; Dec. 6.
McCormick, Raleigh, St. Louis, Mo. Tread-link for tires. No. 59,904; Dec. 6.
McGhee, Norman L., Washington, D. C., assignor to Alpha Phi Alpha Fraternity. Badge. No. 59,905; Dec. 6.
Macoy Publishing & Masonic Supply Co. (See Riegel, Emma B., assignor.)
Marsh, Ernest E., Ypsilanti, Mich. Seat-cushion. No. 59,900; Dec. 6.
Mathieu, Frederick W., assignor to Mitchell Vance Co., Inc., New York, N. Y. Holder or lighting-fixtures. Nos. 59,901-2; Dec. 6.
Mathieu, Frederick W. (See Strahan, G. V., and Mathieu.)
Mitchell Vance Co. (See Mathieu, Frederick W., assignor.)
Mitchell Vance Co. (See Strahan, G. V., and Mathieu, assignors.)

Mohrmann, Paul, assignor to Friedley-Voshardt Co., Chicago, Ill. Frame for lanterns. No. 59,906; Dec. 6.
Nissley, Simon P., Chicago, Ill. Seat. No. 59,907; Dec. 6.
Nissley, Simon P., Chicago, Ill. Toy. No. 59,908; Dec. 6.
Noble, Edward J., Port Chester, N. Y. Medicinal tablet, candy, chewing-gum, or article of similar nature. Nos. 59,909-11; Dec. 6.
Page, Samuel H., Stratford, Conn., assignor to The American Fabrics Company. Lace. Nos. 59,912-19; Dec. 6.
Petry, Nicholas A., Philadelphia, Pa. Handle. No. 59,920; Dec. 6.
Philips, Hans A., Stratford, Conn., assignor to The American Fabrics Company. Lace. Nos. 59,921-3; Dec. 6.
Quint, Edgar M., Concord, N. H. Tourist guide-board. No. 59,924; Dec. 6.
Recker, Adolph C., Oakville, assignor to The Chase Companies Inc., Waterbury, Conn. Handle-cap for whisk-brooms and kindred articles. No. 59,925; Dec. 6.
Richardson, Andrew T., assignor to Verona Tool Works, Verona, Pa. Elevation-scale. No. 59,926; Dec. 6.
Richardson, Andrew T., assignor to Verona Tool Works, Verona, Pa. Inspector's track level and gage. No. 59,927; Dec. 6.
Riegel, Emma B., Brooklyn, assignor to Macoy Publishing & Masonic Supply Co., New York, N. Y. Charm. No. 59,928; Dec. 6.
Roberts, Theodore C., New York, N. Y., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Motor-board for phonograph-motors. No. 59,929; Dec. 6.
Roffy, Joseph T., Pittsburgh, Pa. Blown-glass headlight-reflector. No. 59,930; Dec. 6.
Roffy, Joseph T., Pittsburgh, Pa. Headlight-lens. No. 59,931; Dec. 6.
Russell, Percy, Swarthmore, assignor to Electro Dental Manufacturing Company, Philadelphia, Pa. Dental bracket-arm. No. 59,934; Dec. 6.
Russell, Percy, Swarthmore, Pa., A. W. Schramm, Riverton, N. J., and R. S. Woodward, Jr., Haverford, assignors to Electro Dental Manufacturing Company, Philadelphia, Pa. Pedestal for dental implements. No. 59,932; Dec. 6.
Russell, Percy, Swarthmore, Pa., A. W. Schramm, Riverton, N. J., and R. S. Woodward, Jr., Haverford, Pa., assignors to Electro Dental Manufacturing Company, Philadelphia, Pa. Dental stand. No. 59,933; Dec. 6.
Schmidt, Joseph F., Walters, Minn. Sleigh-knee for heavy vehicles. No. 59,935; Dec. 6.
Schramm, Adolph W. (See Russell, P., Schramm, and Woodward.)
Scher, George G., Philadelphia, Pa. Gripping device. No. 59,936; Dec. 6.
Shlamowitz, Hyman, Brooklyn, N. Y. Bracket for the head-ring of an electric-light fixture. No. 59,937; Dec. 6.
Sobczak, Zygmund, Metz, Mich. Picture-frame. No. 59,938; Dec. 6.
Stein, Fred W., Atchison, Kans. Laundry-rubber. No. 59,939; Dec. 6.
Strahan, George V., Newark, N. J., and F. W. Mathieu, assignors to Mitchell Vance Co. Inc., New York, N. Y. Standard for a lighting-fixture. No. 59,940; Dec. 6.
Strauss, Ferdinand, New York, N. Y. Toy vehicle. No. 59,941; Dec. 6.
Tulloch, David M., Dunellen, N. J. Pipe-coupling. No. 59,942; Dec. 6.
Universal Boring Machine Company. (See Watson, Donald C., assignor.)
Verona Tool Works. (See Richardson, Andrew T., assignor.)
Watson, Donald C., Weston, assignor to Universal Boring Machine Company, Hudson, Mass. Level. No. 59,943; Dec. 6.
Wehrheim, Louis. (See Clark, William C. and E. C., and Wehrheim.)
Williams, Lisle C., Minneapolis, Minn. Steering-post and wheel for a coaster. No. 59,944; Dec. 6.
Winslow Bros. & Smith Co. (See Brandt, Carl, assignor.)
Woodward, Robert S. (See Russell, P., Schramm, and Woodward.)
Zlanowicz, Stanislaw, Aquebogue, N. Y. Combination fountain-pen and pencil. No. 59,945; Dec. 6.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Acushla Rubber and Tire Co., Inc., The, Binghamton, N. Y. Rubber tire-casings and tubes. No. 148,967; Dec. 6.

Aztec Beverage Extract Co., Chicago, Ill. Non-alcoholic, nonmedical, maltless beverages and syrups for making the same. No. 148,801; Dec. 6.

Acme Shear Company, The, Bridgeport, Conn. Scissors and shears. No. 148,907; Dec. 6.

Adams, Frank T., Connellsville, Pa. Rust-preventing and polishing preparation for automobile bodies. No. 148,945; Dec. 6.

Adams, Geo. H., Co., Waltham, Mass., and Hill, N. H. Latch needles for knitting-machines. No. 148,809; Dec. 6.

Adkisson, Bond, & Co., Chicago, Ill. Men's clothing. No. 148,970; Dec. 6.

Aimes Co., San Francisco, Calif. Chocolate candy. No. 148,971; Dec. 6.

Allcock, S. & Co. (Limited), Redditch, England. Linen and thread fishing-lines. No. 148,972; Dec. 6.

Allen, E. E., New York, N. Y. Textile towels. No. 148,973; Dec. 6.

Alling and Cory Company, The, Pittsburgh, Pa. Ledger-papers. No. 148,974; Dec. 6.

Allured, Earl R., Chicago, Ill. Monthly magazines. No. 148,975; Dec. 6.

Allured, Earl R., Chicago, Ill. Magazines published monthly. No. 148,976; Dec. 6.

Alston, Anna R., New York, N. Y. Elastic corsets, brassières, and supporters. Nos. 149,300–1; Dec. 6.

American Continental Retort Company, The, Denver, Colo. Ore and oil-shale roasting furnace. No. 148,977; Dec. 6.

American Milk Products Corporation, New York, N. Y. Unsweetened evaporated milk. No. 148,978; Dec. 6.

American Oil Burner Company, New York, N. Y. Oil-heaters. No. 148,979; Dec. 6.

American Piano Company, Jersey City, N. J., and New York, N. Y. Musical instruments, particularly pianos, player-pianos, and parts thereof. Nos. 148,980–1; Dec. 6.

American Standard Tourniquet Company, Portland, Me. Tourniquets, bandages, &c. No. 149,302; Dec. 6.

American Steel Foundries, Chicago, Ill. Anchors and certain castings. No. 148,982; Dec. 6.

Amoskeag Manufacturing Company, Manchester, N. H. Cotton piece goods. No. 148,983; Dec. 6.

Amolin, Homer L., San Francisco, Calif. Liquid mouth-wash and antiseptic. No. 148,983; Dec. 6.

Atlantic Refining Company, The, Philadelphia, Pa. Certain oils and greases. No. 148,984; Dec. 6.

Atlas Cereal Company, Kansas City, Mo. Rolled and steel-cut oats, cream-meal, cornmeal, hominy-grits, pearl-hominy. No. 148,986; Dec. 6.

Auerbach, D. & Sons, New York, N. Y. Chocolates. No. 148,987; Dec. 6.

Automotive Gear Works, Atlanta, Ga. Automobile gears and shafting, transmission-gears, &c. No. 148,988; Dec. 6.

Automotive Lubricant Company, San Antonio, Tex. Lubricating-oil. No. 148,989; Dec. 6.

Babbitt Steam Specialty Co., New Bedford, Mass. Sprocket-rims, wheel-rims and chain-guides. No. 148,990; Dec. 6.

Ballard & Ballard Company, Louisville, Ky. Wheat flour. No. 148,992; Dec. 6.

Bally Company, Inc., Wilmington, Del., and New York, N. Y. Certain articles of clothing. Nos. 148,993–4; Dec. 6.

Barbour, Ben F., Birmingham, Ala. Certain beverage and syrup for making same. No. 149,303; Dec. 6.

Bass, H. R., Kansas City, Mo. Liquid dye preparation. No. 148,995; Dec. 6.

Beckwith, Estate of P. D., Inc., Dowagiac, Mich. Hot-air and combined hot-air and hot-water heaters and furnaces. No. 149,045; Dec. 6.

Berks Knitting Company, Reading, Pa. Hosiery. No. 148,996; Dec. 6.

Bianchini, Férier, Lyon, France. Piece goods of silk, wool, linen, cotton, and china-grass. Nos. 148,997–8; Dec. 6.

Bissell Carpet Sweeper Co., Grand Rapids, Mich. Toy carpet-sweeper. Nos. 148,999–149,000; Dec. 6.

Blackman Stock Remedy Co., Chattanooga, Tenn. Medicated salt brick for live stock. No. 149,001; Dec. 6.

Bonnie B Company, Inc., The, New York, N. Y. Powder-puffs. No. 149,002; Dec. 6.

Borgfeldt, George, & Co., New York, N. Y. Textile rugs. No. 149,003; Dec. 6.

Brave, Louis, New York, N. Y. Dentifrice. No. 149,304; Dec. 6.

Bresee, Bert E., Herkimer, N. Y. Felt shoes and slippers. No. 149,004; Dec. 6.

Brunson, James I., Philadelphia, Pa. Indigestion medicine. No. 149,005; Dec. 6.

Bu Bane, Inc., New York, N. Y., and Toronto, Ontario, Canada. Vermin-exterminator—namely, rat and mouse poison. No. 149,006; Dec. 6.

Burlington Watch Co., Chicago, Ill. Watches. No. 149,305; Dec. 6.

Burton Bros. & Co., New York, N. Y. Cotton piece goods. No. 149,007; Dec. 6.

California Cotton Mills Company, Oakland, Calif. Monthly publication. No. 149,008; Dec. 6.

Caulk, L. D., Company, Milford, Del. Porcelain for filling teeth and making dental facings, &c. No. 149,306; Dec. 6.

Caulk, L. D., Company, Milford, Del. Certain dental supplies and appliances. No. 149,307; Dec. 6.

Carey, Phillip, Manufacturing Company, The, Lockland, Ohio. Grease stock. No. 149,209; Dec. 6.

Cardinal Mills, Chattanooga, Tenn. Hosiery. No. 149,009; Dec. 6.

Chatham Manufacturing Company, Winston-Salem, N. C. Blankets made of wool and cotton or a combination of wool and cotton. Nos. 149,010–12; Dec. 6.

Chicago Mercantile Company, Chicago, Ill. Hats. No. 149,013; Dec. 6.

Cohan, Abner, Brooklyn, N. Y. Men's, women's, and children's hats. No. 149,308; Dec. 6.

Cohen, Nathan B., Scranton, Pa. Hair-nets. No. 149,014; Dec. 6.

Colngum Manufacturing Company, Philadelphia, Pa. Vending-machines. No. 149,015; Dec. 6.

Coleman Lamp Company, The, Wichita, Kans. House magazine published monthly. No. 149,017; Dec. 6.

Cole Publishing Company, The, Cleveland, Ohio. Weekly publication. No. 149,016; Dec. 6.

Collins, Lawrence A., Los Angeles, Calif. Laxative. No. 149,018; Dec. 6.

Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif. Bleached muslin in the piece. Nos. 149,019–20; Dec. 6.

Corning International Corporation, New York, N. Y. Hoes, machetes, and axes, cold-rolled shafting. No. 149,021; Dec. 6.

Corning International Corporation, New York, N. Y. Cotton, worsted, woolen and linen piece goods. No. 149,022; Dec. 6.

Corning International Corporation, New York, N. Y. Tool-steels and steel bars, wire, &c. No. 149,023; Dec. 6.

Cotter Shoe Co., The, Lynn, Mass. Shoes made wholly or in part of leather. No. 149,024; Dec. 6.

Council, James R., Norfolk, Va. Cough-drops. No. 149,025; Dec. 6.

Creme-O-Toast Company. (See Porter Baking Co., The, assignor.)

Davis and Voetsch, New York, N. Y. Stuffed toy dogs. Nos. 149,029–30; Dec. 6.

Davis, Jacob, Arlington, N. J. Paint coating or enamel for iron surfaces. No. 149,027; Dec. 6.

Davis, Pearl, Birmingham, Ala. Tonics and dressings for the hair and scalp. No. 149,028; Dec. 6.

Davis-Pope Company, Incorporated, South Norwalk, Conn. Men's and women's hats. No. 149,309; Dec. 6.

Davies, Usher L., San Francisco, Calif. Non-alcoholic non-cereal malticas beverage. No. 149,026; Dec. 6.

Delgado Mills, Wilmington, N. C. Cotton piece goods—namely, ginghams. No. 149,031; Dec. 6.

Detroit Bevel Gear Company, Detroit, Mich. Certain gears and differential cases for vehicle rear axles. No. 149,032; Dec. 6.

Dewey, Edward B., Washington, D. C., and Winsted, Conn. Hairpins not of precious metals. No. 149,033; Dec. 6.

Domestic Mills Company, Inc., Lowell, Mass. Silk, wool, cotton, &c., yarns and goods. No. 149,034; Dec. 6.

Dunn Pen Company, Inc., New York, N. Y. Fountain-pens. Nos. 149,035–7; Dec. 6.

Duplex Shock Absorber Corp., Chicago, Ill. Vehicle shock-absorbers. No. 149,038; Dec. 6.

Eastern Art Shop, New York, N. Y. Shades of glazed fabric. No. 149,039; Dec. 6.

Edmonds Shoe Company, Milwaukee, Wis. Leather shoes. Nos. 149,040–2; Dec. 6.

Educational Supply Company, The, Painesville, Ohio. Certain papers. No. 149,043; Dec. 6.

Elfman, Louis A., Philadelphia, Pa. Horse-racing amusement game apparatus. No. 149,044; Dec. 6.

Ever Sharp File Co., Taunton, Mass. Files. No. 149,046; Dec. 6.

Fahrney, Dr. Peter, & Sons Co., Chicago, Ill. Certain medicinal tonic. No. 149,047; Dec. 6.

Farm Publishing Company, Des Moines, Iowa. Monthly periodical publication. No. 149,048; Dec. 6.

Federal Rubber Company, The, Cudahy, Wis. Mats and matting made wholly or partly of rubber. Nos. 149,049–50; Dec. 6.

Felles, George, Cleveland, Ohio. Certain medicinal preparation. No. 149,051; Dec. 6.

Figueroa, L. Y., & P. S. Waldorf Co., Milwaukee, Wis. Skin-cream. No. 149,052; Dec. 6.

Fishel, Henry W., & Sons, Inc., New York, N. Y. Certain jewelry. Nos. 149,093–4; Dec. 6.
Fitch, F. W., Company, The, Des Moines, Iowa. Perfumes. No. 149,055; Dec. 6.
Floto, Gustav T., Washington, D. C. Salve for piles. No. 149,056; Dec. 6.
Folgman, Emanuel, Brooklyn, N. Y. Self-blowing torch. No. 149,057; Dec. 6.
Ford Dealers Supply Company, Indianapolis, Ind. Governors for governing the speed of internal-combustion motors. No. 149,058; Dec. 6.
Forman Bassett Company, The, Cleveland, Ohio. Safety-paper. Nos. 149,059–60; Dec. 6.
Fox, Lewis T., Southern Pines, N. C. Fresh peaches. No. 149,061; Dec. 6.
Fowler & Union Horse Nail Company. (See Fowler Nail Co., assignor.)
Fowler Nail Co., The, Seymour, Conn., assignor to The Fowler & Union Horse Nail Company, New Haven, Conn. Cold-rolled horseshoe nails. Nos. 149,062–3; Dec. 6.
Frosolly, J. W., Corpus, Tex. Sheet-rubber tire-patches and tube-patches, brake-lining, &c. No. 149,064; Dec. 6.
Freeland Overall Manufacturing Co., Freeland and Lilitz, Pa. Work coats, shirts, pants and trousers and overalls. No. 149,065; Dec. 6.
Galdo Dulzaides y Compañia, Cardenas, Matanzas, Cuba. Watches, clocks, alarm-clocks. No. 149,210; Dec. 8.
Gasnet, Alfred L., Methuen, Mass. Woolen and worsted cloth in piece goods. No. 149,066; Dec. 6.
Geigy Company, Inc., New York, N. Y. Dyestuffs. No. 149,067; Dec. 6.
General Utility Company, Philadelphia, Pa. Piston-rings. No. 149,068; Dec. 6.
Gibson, A. C., Dayton, Tenn. Non-alcoholic beverage. No. 149,311; Dec. 6.
Gleiger, Emil, Selzach, Switzerland, and New York, N. Y. Watches, &c. No. 149,068; Dec. 6.
Gleiger, Emil, Selzach, Switzerland, and New York, N. Y. Watches, watchcases, watch dials and movements, and alarm-clocks. Nos. 149,070–5; Dec. 6.
Glemby's, S., Sons Co., Inc., New York, N. Y. Hair-nets. No. 149,076; Dec. 6.
Golding Fabrics Corporation, New York, N. Y. Silk piece goods. No. 149,077; Dec. 6.
Gooch, E. E., Manufacturing Co., Martin, Tenn. Chemical preparation for the protection of cured meat from skippers and other insects. No. 149,078; Dec. 6.
Goode, G. C., Company, The, Cleveland, Ohio. Milling cutters, lathe-bits, drills, &c. No. 149,079; Dec. 6.
Goodman Hosiery Mills, Indianapolis, Ind. Hosiery. No. 149,080; Dec. 6.
Grant, W. T., Co., New York, N. Y. Hair-nets. No. 149,081; Dec. 6.
Graphite Mines Corporation, New York, N. Y. Coal. No. 149,082; Dec. 6.
Gray, Marion R., Los Angeles, Calif. Certain articles of clothing. No. 149,083; Dec. 6.
Green Fuel Economizer Company, Beacon, N. Y. Fans and blowers. No. 149,312; Dec. 6.
Greenfield Tap and Die Corporation, Greenfield, Mass. Thread-cutting taps. No. 149,084; Dec. 6.
Grenoville, Marie M. R. Vve., Asnières, France. Brilliantine, face powder and lotion. No. 149,085; Dec. 6.
Grenoville, Marie M. R. Vve., Asnières, France. Perfumes, toilet waters, face-powder, &c. No. 149,086; Dec. 6.
Grey, C. M., Mfg. Co., East Orange, N. J. Automobile-radiator caps. No. 149,087; Dec. 6.
Gross, George V., & Company, New York, N. Y., assignor to W. A. Sherry, Los Angeles, Calif. Coloring materials for foods. No. 149,088; Dec. 6.
Guy Motors, Ltd., Wolverhampton and Fallings Park, England. Automobiles, motor-boats, aeroplanes, motor-cycles. No. 149,089; Dec. 6.
Gussardo, Albert C., Kansas City, Mo. Preparation for relief of venereal disease. No. 149,090; Dec. 6.
Habirshaw Electric Cable Company, Inc., New York, N. Y. Electric cable and insulated wire. No. 149,313; Dec. 6.
Hagedorn, Edward G., New York, N. Y. Neckties. No. 149,091; Dec. 6.
Hair Net Importing Company, Inc., New York, N. Y. Hair-nets. No. 149,092; Dec. 6.
Halff, S., & Co., Los Angeles, Calif. Men's, women's, children's, and infants' hosiery. No. 149,093; Dec. 6.
Hall, Frank L., Co., Buffalo, N. Y. Wheat bread and rolls, cakes, and pastry. No. 149,094; Dec. 6.
Hall-Thompson Company, The, Hartford, Conn. Engine-starting fluids. No. 149,095; Dec. 6.
Hanover Mfg. Co., The, Baltimore, Md. Children's, misses', and juniors' dresses, coats, rompers, bloomers, &c. No. 149,096; Dec. 6.
Hanson & Van Winkle Company, The, Newark, N. J. Preparation for cleaning metals. No. 149,097; Dec. 6.
Harral Soap Co., Inc., Brooklyn, N. Y. Shampoo. No. 149,098; Dec. 6.
Harrower, Henry R., Glendale, Calif. Pluriglandular formulas for the treatment of amenorrhea, &c. No. 149,099; Dec. 6.
Harrower, Henry R., Glendale, Calif. Pluriglandular formulas for the treatment of asthenia, sub-oxidation, and hypotension. No. 149,100; Dec. 6.
Hawkins, Edwin C., Paducah, Ky. Wheat flour. No. 149,101; Dec. 6.
Hazelrigg, Frank C., Indianapolis, Ind. Tonic alterative. No. 149,102; Dec. 6.
Heatons (London), Ltd., Leeds, England. Ladies' rain-coats. No. 149,103; Dec. 6.
Heaut and Maternel Incorporated, New York, N. Y. Serges in the piece. No. 149,104; Dec. 6.
Heckt & Mendes Incorporated, New York, N. Y. Napped cotton, wool, or silk piece goods. No. 149,105; Dec. 6.
Heiks, John F., Baltimore, Md. Toilet cream. No. 149,106; Dec. 6.
Heller, Frank B., Elizabeth, N. J. Leather floor-mats. No. 149,107; Dec. 6.
Henderson, John W., Charleston, W. Va. Salve for cuts, boils, abscesses carbuncles, sores, and infection. No. 149,108; Dec. 6.
Hirsch, Weil, & Sons Mercantile Co., St. Louis, Mo., and Los Angeles, Calif. Pattern. No. 149,109; Dec. 6.
H-O Cereal Company, Inc., The, Buffalo, N. Y. Magazine or house organ published and issued by it. No. 149,110; Dec. 6.
Holland Shoe Co., Holland, Mich. Leather footwear. No. 149,111; Dec. 6.
Home Woolen Mills, Eaton Rapids, Mich. Yarns. No. 149,112; Dec. 6.
Hood, H. P., & Sons, Inc., Boston, Mass. Carbonated soft drinks and syrups. No. 149,113; Dec. 6.
Hoover Hosiery Co., Concord, N. C. Ladies' and men's hosiery. No. 149,114; Dec. 6.
Howe, H. B., Company, The, Cincinnati, Ohio. Display-shelves. No. 149,115; Dec. 6.
Illinois Razor Strop Company, Chicago, Ill. Razor-strops. No. 149,116; Dec. 6.
Indian Head Mills of Ala., Cordova, Ala. Cotton sheetings, drills, and flannels in the piece. No. 149,314; Dec. 6.
Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Certain machinery and tools. No. 149,117; Dec. 6.
International Housing Corporation, Jersey City, N. J., and New York, N. Y. Metal buildings and metal-building sections. No. 149,118; Dec. 6.
International Magazine Company, New York, N. Y. Monthly magazine. No. 149,119; Dec. 6.
Interstate Shade Cloth Co., Hoboken, N. J. Shade-cloth. No. 149,120; Dec. 6.
Irokese Trading Corporation, New York, N. Y. Dolls. No. 149,121; Dec. 6.
Jackson, Edwin A., & Bro., Inc., New York, N. Y. Certain garbage receivers. No. 149,122; Dec. 6.
Jacobson, Max, New York, N. Y. Talking boards. No. 149,123; Dec. 6.
Janowitch, J. H., & Janov, Inc., New York, N. Y. Children's outer suits, boys' blouses, negligée and dress shirts. No. 149,124; Dec. 6.
Johnson Appleby Company, Boston, Mass. Baking-powder. No. 149,125; Dec. 6.
Jones, Thomas R., Wilkes-Barre, Pa. Miners' caps. No. 149,126; Dec. 6.
Jordan Marsh Company, Boston, Mass. Golf-clubs. No. 149,127; Dec. 6.
Joseph Krieg Fink Co., Inc., Jersey City, N. J. Non-intoxicating maltless, non-cereal beverage. No. 149,136; Dec. 6.
Kahn Manufacturing Company, Mobile, Ala. Overalls, coveralls, trousers. No. 149,128; Dec. 6.
Kahn Tailoring Company, Indianapolis, Ind. Men's clothes comprising coats, vests, and trousers. No. 149,129; Dec. 6.
Kennedy Car Liner & Bag Co., Shelbyville, Ind. Paper bags, merchandise-envelops, paper car-liners. No. 149,315; Dec. 6.
Kittredge, W. A., Company, The, Tunkhannock, Pa. Washing compound. No. 149,130; Dec. 6.
Klein, Joseph M., New York, N. Y. Certain articles of clothing for men and boys. No. 149,131; Dec. 6.
Knipe Bros., Inc., Haverhill, Mass. Leather boots and shoes. No. 149,132; Dec. 6.
Kolar, G. S., Laboratories, Chicago, Ill. Certain toilet preparation. No. 149,133; Dec. 6.
Kraeuter & Co. Inc., Newark, N. J. Golf-putters. No. 149,134; Dec. 6.
Krebs, M. G., Lorain, Ohio. Hair restorative. No. 149,135; Dec. 6.
La Mode Mills, Elizabeth, N. J., and New York, N. Y. Hosiery. No. 149,317; Dec. 6.
La Piana, Chicago, Ill. Deodorants. No. 149,319; Dec. 6.
Lakeside Supply Company, Chicago, Ill. Phonographs. No. 149,316; Dec. 6.
Landis, Roland G., Dayton, Ohio. Carbon-paper. No. 149,318; Dec. 6.
Lang & Pressprich, New Rochelle, N. Y. Toy music-boxes. No. 149,137; Dec. 6.
Lé Basart Import Co. Inc., New York, N. Y. Certain toilet preparations. No. 149,138; Dec. 6.
Lee, Harry A., Kansas City, Mo. Crank-pin re-turning or truing tools. No. 149,140; Dec. 6.
Levymore, Louis, New York, N. Y. Human and animal hair. No. 149,140; Dec. 6.
Liberty Paper Co., New York, N. Y. Dress-form sets. No. 149,141; Dec. 6.
Lima Cord Sole & Heel Company, The, Lima, Ohio. Soles and heels made of a combination of rubber and fabric. No. 149,142; Dec. 6.

Litchfield Manufacturing Company, The, Waterloo, Iowa. Manure-spreaders and straw-spreaders. No. 149,143; Dec. 6.
Little Servant Mfg. Co., Jersey City, N. J. Tablets for washing fabrics of various kinds. No. 149,144; Dec. 6.
Little Wilds Shoe Co., The, Salem, Mass. Infants' and children's boots and shoes. No. 149,145; Dec. 6.
Locomobile Company of America, The, Bridgeport, Conn., and New York, N. Y., assignor to The Locomobile Company, Bridgeport, Conn. Self-propelled vehicles—namely, trucks. No. 149,146; Dec. 6.
Locomobile Company, The. (See Locomobile Company of America, The, assignor.)
Los Angeles Soap Co., Los Angeles, Calif. Toilet soap. No. 149,320; Dec. 6.
Lubricants Company, The, Dayton, Ohio. Lubricating oils and greases. No. 149,147; Dec. 6.
Macdonald, Reuben H., Binghamton, N. Y. Remedy for stomach, kidneys, liver, bladder, and blood troubles, &c. No. 149,150; Dec. 6.
MacKay, Francis W., Norwalk, Conn. Outer cover-all garment for children. No. 149,152; Dec. 6.
Marungie Silk Company, Marungie, Pa. Blanket-bindings and tapes. No. 149,153; Dec. 6.
Mary, R. H., & Co. Inc., New York, N. Y. Aprons. No. 149,154; Dec. 6.
Malone & Hyde Inc., Memphis, Tenn. Publications published periodically. Nos. 149,155; Dec. 6.
Marcus, Isaac L., Scranton, Pa. Suits for men, young men, boys, and children, overcoats, pants, &c. No. 149,156; Dec. 6.
Marshall Field & Company, Chicago, Ill. Toilet preparations—namely, cold-cream, toilet water, and talcum powder. No. 149,157; Dec. 6.
Marshall Field & Company, Chicago, Ill. Skin-lotion. No. 149,158; Dec. 6.
Marshall Field & Company, Chicago, Ill. Pottery ware. No. 149,321; Dec. 6.
May Evelyn Hat Co., New York, N. Y. Hats for girls. No. 149,159; Dec. 6.
McCrillus Medical Co., Crown Point, Ind. Laxative tablets. No. 149,148; Dec. 6.
McDonald, Louvenia C., Hartselle, Ala. Hair-tonic. No. 149,149; Dec. 6.
McDowell, Emma L., Chicago, Ill. Tonics and dressings for treatment of hair and scalp. No. 149,151; Dec. 6.
Medicott Company, The, Windsor Locks, Conn. Wool underwear. No. 149,160; Dec. 6.
Merrill & Mayo Co., Waterville, Me. Wheat flour, dairy rations, stock feed, &c. No. 149,322; Dec. 6.
Mayer, deceased, Trust Estate of Adolph C., Baltimore, Md. Antidots and substituts for tobacco. No. 149,161; Dec. 6.
Meyer, Peter, New York, N. Y. Face-powder and rouge. No. 149,162; Dec. 6.
Midland Playing Card Co., La Fayette, Ind. Playing-cards. No. 149,164; Dec. 6.
Mizel, J. A., Inc., New York, N. Y. Silk goods in the piece. No. 149,163; Dec. 6.
Mizel, J. A., Inc., New York, N. Y. Broad silk in the piece. No. 149,165; Dec. 6.
Mizel, J. A., Inc., New York, N. Y. Silk goods in the piece. No. 149,166; Dec. 6.
Miller-West Company, Dayton, Ohio. Automobile-heater utilizing explosive-engine-exhaust heat. No. 149,167; Dec. 6.
Milliken, William S., Brooklyn, N. Y. Candy. No. 149,168; Dec. 6.
Mirsky, Israel M., Milwaukee, Wis. Underwear and hosiery. No. 149,169; Dec. 6.
Mosner, C., Sons Company, The, Boston, Mass. Leathers. No. 149,170; Dec. 6.
Monarch Foundry Company, Stockton, Calif. Castings for pumps and pumping plants. No. 149,171; Dec. 6.
Montgomery, C. L., Memphis, Tenn. Cotton-seed meal. No. 149,172; Dec. 6.
Moore, Rutherford W., Schenectady, N. Y. Preparation useful in general debility, convalescence from wasting diseases, &c. No. 149,323; Dec. 6.
Moon-Shine Manufacturing Company, Chillicothe, Mo. Lubricating oil. No. 149,173; Dec. 6.
Morgan, Seibert W., Baltimore, Md. Compound for polishing glass metals, and like surfaces. No. 149,174; Dec. 6.
Morris, Mann & Reilly, Chicago, Ill. Baby-pants. Nos. 149,175–6; Dec. 6.
Mumford, Luella, Lehigh, Ala. Tonics and dressings for the hair and scalp. No. 149,177; Dec. 6.
Myers, Rodman, San Antonio, Tex. Face-cream. No. 149,178; Dec. 6.
Naamlooze Vennootschap: Eau De Cologne-fabriek Voorheen J. C. Boldoot, Amsterdam, Netherlands. Soaps. No. 149,179; Dec. 6.
National Drug Stores Corporation, New York, N. Y. Soap cream used before shaving. No. 149,180; Dec. 6.
National Steel Products Company, The, Dayton, Ohio. Shock-absorbers for vehicles. No. 149,181; Dec. 6.
National Toy and Tinsel Mfg. Co., Manitowoc, Wis. Certain toys. No. 149,182; Dec. 6.
Neuman & Rubin, Philadelphia, Pa. Bathing-rompers. No. 149,183; Dec. 6.
New Process Chemical Co., Inc., New York, N. Y. Ready-mixed and waterproofing paints, waterproofing-fillers in the nature of paint. No. 149,184; Dec. 6.
Nicholas, L. V., Oil Company, The, Omaha, Nebr. Liquid used for cleaning clothing. No. 149,185; Dec. 6.
No-Leak-O Piston Ring Company, Baltimore, Md. Piston-rings. No. 149,186; Dec. 6.
Northern Jobbing Company, Chicago, Ill. Shoes made of leather, rubber, fabric, or combination of same. No. 149,187; Dec. 6.
Northrup Equipment Company, Parkersburg, W. Va. Oil-well pumps, valves, and other parts of pumps, and oil-well pumping equipment. No. 149,188; Dec. 6.
Northwestern Distributing Co., Billings, Mont. Bread. No. 149,189; Dec. 6.
Nu-Way Stretch Suspender Co., Adrian, Mich. Men's suspenders and hose-supporters. No. 149,190; Dec. 6.
Ogus, Rabinovich & Ogus Co., Chicago, Ill. Women's and children's hats. No. 149,191; Dec. 6.
Oppenheim, Oberndorf & Co., Inc., Baltimore, Md. Collars. No. 149,192; Dec. 6.
Oppenheim, Oberndorf & Co., Inc., Baltimore, Md. Union-suits. No. 149,324; Dec. 6.
Orange Chemical Co., Orange, Tex. Medicine for treatment of indigestion. No. 149,193; Dec. 6.
Orange Screen Co., South Orange, N. J. Window and door screens and screened-porch inclosures. No. 149,194; Dec. 6.
Osborn Manufacturing Company, The, Cleveland, Ohio. Moulders' bellows and shovels. No. 149,195; Dec. 6.
Outing Shoe Company, Boston, Mass. Cloth shoes and slippers. No. 149,196; Dec. 6.
Pearson, L. G., Corp., Niagara Falls, N. Y. Polishing-cloths for gold, silver, and all precious metals. No. 149,197; Dec. 6.
Penn Oil Co., Rosslyn, Va. Fuel-oils. No. 149,198; Dec. 6.
Pennsylvania Range Boiler Co., Philadelphia, Pa. Range-boilers. No. 149,199; Dec. 6.
Pfeifer Brothers, Little Rock, Ark. Certain articles of clothing. No. 149,325; Dec. 6.
Pierce Oil Corporation, Richmond, Va., and New York, N. Y. Petroleum products consisting of gasolene, kerosene, &c. No. 149,201; Dec. 6.
Pontoosuc Woolen Mfg. Co., Pittsfield, Mass. Woolen and worsted piece goods. No. 149,202; Dec. 6.
Porter Baking Co., The, assignor to Creme-O-Toast Company, Seattle, Wash. Sliced prepared toast in packages. No. 149,203; Dec. 6.
Porter Chemical Company, The, Hagerstown, Md. Paper-cut-out game for character analysis. No. 149,204; Dec. 6.
Press, Jacob, New York, N. Y. Men's garters. No. 149,326; Dec. 6.
Prunela Health Food Company, Dickinson, N. D. Food composed of wheat-bran, flour, prunes, honey and milk. No. 149,205; Dec. 6.
Puritan Drug Mfg. Co., The, Columbus, Ohio. Certain medicinal preparation. Nos. 149,207–8; Dec. 6.
Ramspring Bumper Co., Chicago, Ill. Automobile-bumpers. No. 149,209; Dec. 6.
Red Star Milling Company, The, Wichita, Kans. Wheat-flour. No. 149,210; Dec. 6.
Regent Knitting Corporation, Syracuse, N. Y. Men's and boys' knitted caps. No. 149,211; Dec. 16.
Reynolds, Bion F., Brockton, Mass. Shoes made of leather, fabric, rubber, or combination of same. No. 149,212; Dec. 6.
Reynolds Company, Limited, Vancouver, British Columbia, Canada. Shingles. No. 149,213; Dec. 6.
Rieser Company, The, New York, N. Y. Hair-nets. No. 149,214; Dec. 6.
Riordon Company, Limited, Montreal, Quebec, Canada. Certain construction materials. No. 149,215; Dec. 6.
Robbins, George W. D., Pasadena, Calif. Ointment for treatment of hemorrhoids. No. 149,216; Dec. 6.
Roberts, W. F., Company, Inc., Washington, D. C. Printed and engraved matter. No. 149,217; Dec. 6.
Roessel, Louis, & Co., Inc., New York, N. Y. Crepe and silk in the piece. No. 149,218; Dec. 6.
Rose and Company, New York, N. Y. Magazines and pamphlets published monthly. No. 149,219; Dec. 6.
Rubberized Sheeting & Specialty Co. Inc., New York, N. Y. Waterproof baby-pants. No. 149,220; Dec. 6.
Rubberized Sheeting & Specialty Co. Inc., New York, N. Y. Babies' waterproof bloomers. No. 149,327; Dec. 6.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Pile fabrics in the piece. No. 149,221; Dec. 6.
Sanitary Rubber Novelty Mfg. Co., Chicago, Ill. Rubber pants for infants' wear. No. 149,222; Dec. 6.
Sanitas Company, Inc., The, Jersey City, N. J., and Brooklyn, N. Y. Disinfectants, insecticides, and deodorants. Nos. 149,223–5; Dec. 6.
Sanitas Company, Inc., The, Jersey City, N. J., and Brooklyn, N. Y. Disinfectants and air-conditioning preparations. No. 149,226; Dec. 6.
Saul, Tom W., Seattle, Wash. Hair pins and combs. No. 149,227; Dec. 6.
Sawyer Crystal Blue Company, Boston, Mass. Disinfecting and cleansing compound. No. 149,228; Dec. 6.
Schieren, Chas. A., Company, New York, N. Y. Certain leather packings. No. 149,229; Dec. 6.
Schmidt, B. L., Company, Davenport, Iowa. Metal-grinding machines. No. 149,230; Dec. 6.
Schnack, Martin R., Los Angeles, Calif. Doll with flexible joints. No. 149,231; Dec. 6.

Schwarz, Emil, Chicago, Ill. Wrenches. No. 149,233; Dec. 6.

Schroeder, Henry P., St. Louis, Mo. Non-alcoholic beverages. No. 149,252; Dec. 6.

Scowcroft, John, & Sons Company, Ogden, Utah. Certain articles of clothing. No. 149,253; Dec. 6. (Issued Business and Co., Chicago, Ill. Cotton piece goods. No. 149,234; Dec. 6.

Sherry, William A. (Sir Grass, George T., & Company assignee.)

Shuyer, D. W., & Co., New York, N. Y. Petticoats, corsets, blouses, &c. No. 149,235; Dec. 6.

Signal Acoustics Corporation, Utica, N. Y. Electric signals and railway switches and parts thereof, &c. No. 149,236; Dec. 6.

Silin, Louis, New York, N. Y. Dress waists, and work shirts. No. 149,237; Dec. 6.

Singer, William H., New York, N. Y. Non-inflammable cleaning fluid. No. 149,238; Dec. 6.

Smith, J. P., Shoe Co., Chicago, Ill. Shoes of leather and combinations. No. 149,239; Dec. 6.

Société Lyonnaise d'Industrie Mécanique, Lyon-St. Clair-Caluire, France. Automobiles and lorries. No. 149,240; Dec. 6.

Solomon, Gerald, Holliday, Mo. Medicinal preparation. No. 149,240; Dec. 6.

Sommer, Samuel M., Chicago, Ill. Touch-pens. No. 149,241; Dec. 6.

Spoehr's, Chicago, Ill. Candy. Nos. 149,242–3; Dec. 6.

Spokane Dry Goods Company, Spokane, Wash. Mackinaws and overcoats. No. 149,244; Dec. 6.

Spooner, Jacob J., New York, N. Y. Talcum and face powders, perfumes, and bath salts. No. 149,245; Dec. 6.

Stafford Flour Mills Co., Stafford, Kans. Wheat-flour. No. 149,246; Dec. 6

Stafford, Leslie, La Salle, Ill. Inner-tube-repair kits. No. 149,247; Dec. 6.

Standard Oil Company, Bayonne, N. J. Petroleum oil. No. 149,248; Dec. 6.

Standard Oil Company, Bayonne, N. J., and New York, N. Y. White mineral oil. No. 149,249; Dec. 6.

Sté. Anonyme des Produits Dorilly Paris France. Certain toilet preparations. Nos. 149,250; Dec. 6.

Stegmaier, Walter M., & Bro., Inc., Philadelphia, Pa. Children's collars, shirts blouses, &c. No. 149,251; Dec. 6.

Stevens & Thompson Paper Company, Greenwich, N. Y. Paper towels. No. 149,252; Dec. 6.

Sun Company, Philadelphia, Pa. Luminating oils. No. 149,253; Dec. 6.

Surpass Hosiery Co., Philadelphia, Pa. Hosiery for men, women, and children. No. 149,254; Dec. 6.

Swihart, Cyrus L., Harper, Ohio. Pilers. No. 149,255; Dec. 6.

Tailored Silk Undergarment Co., New York, N. Y. Underwear—namely, chemises, bloomers, camisoles, &c. No. 149,256; Dec. 6.

Tatham and Company, Chicago, Ill. Butter, eggs, and poultry. No. 149,257; Dec. 6.

Thomson & Digre Company, The, Sacramento, Calif. Certain pencils and crayons. No. 149,258; Dec. 6.

Torbell Company, The, Boston, Mass. Monthly magazines. No. 149,259; Dec. 6.

Touraine Company, The, Boston, Mass. Chocolates. No. 149,260; Dec. 6.

Towle & Sarridge, Lynn, Mass. Infants' and children's boots and shoes made wholly or in part of leather and cloth. No. 149,261; Dec. 6.

Towmotor Company, The, Cleveland, Ohio. Gasolene industrial tractors. No. 149,263; Dec. 6.

Transportation Engineering Corporation, New York, N. Y. Arc-welding metal electrodes. No. 149,261; Dec. 6.

Tramonte Co., The, Philadelphia, Pa. Face-powders. No. 149,262; Dec. 6.

Trichel, C. E., Shreveport, La. Disinfectant, bedbug preparation, and mosquito-lotion. No. 149,263; Dec. 6.

Tru-Blu Biscuit Company, Spokane, Wash. Candy. Nos. 149,264–6; Dec. 6.

Twombly, Annabelle F. W., Waltham, Mass. Ornamental medallions. No. 149,266; Dec. 6.

Ty-Do Fruit Co., Los Angeles, Calif. Beverages. No. 149,267; Dec. 6.

Ulite Refined Crude Products Company, Chicago, Ill. Preparation used as a polish and as a cleanser. No. 149,270; Dec. 6.

United Stationers Service Company, Wilmington and Wednesday (from Haas, and Washington, D. C. Printed publications, magazines and periodicals issued regularly and supplements thereto. No. 149,271; Dec. 6.

United Stamp Company, New York, N. Y. Stamps. No. 149,272; Dec. 6.

Canton Rubber Heater Company, New Brunswick, N. J., and New York, N. Y. Coil-mats. No. 149,273; Dec. 6.

Universal Children's Dress Co., Inc., New York, N. Y. Infants' and children's colored wash-dresses. No. 149,274; Dec. 6.

Universal Rock Cement Foundation Company, Inc., New York. Cements and parts thereof, &c. No. 149,275; Dec. 6.

Vanderbilt, R. T., Co., Inc., New York, N. Y. Clay used as a filler in the manufacture of paper and as a coating for wall-paper. No. 149,277; Dec. 6.

Vale, Charles H., Worcester, Mass. Fireplugs for portries. No. 149,276; Dec. 6.

Victor Duplex & Textile Belting Co., New York, N. Y., and Victor Duplex & Textile Belting, No. 149,160; Dec. 6.

Victor Rubber Company, The, Springfield, Ohio. Rubber and fabric outer coverings for pneumatic automobile tires and inner tubes for same. No. 149,278; Dec. 6.

Vitalist Laboratory, The Newton and Newton Center, Mass. Bacteriological staining reform. No. 149,279; Dec. 6.

Wagner, Horace C., Walters Okla. Medicinal preparation used in the treatment of Blackness, constipation. No. 149,280; Dec. 6.

Waistcraft Corporation, New York, N. Y. Waists. No. 149,281; Dec. 6.

Watt, William, Mount Dora, Fla. Citrus fruits in their natural state. No. 149,282; Dec. 6.

Warren Paper Goods Company, Fort Wayne, Ind. Horseshoe gaskets. No. 149,283; Dec. 6.

Wetzel Laboratories, Dallas, Tex. Sand mixtures, cream, cold and vanishing creams, face powder. No. 149,284; Dec. 6.

Weimecke, Frank A., Pittsburgh, Pa. Gearset trains. No. 149,285; Dec. 6.

White, Ernest M., Los Angeles, Calif. Lubricant-substituting devices for use in connection with internal-combustion engines. No. 149,286; Dec. 6.

White, H. C., Company, North Bennington, Vt. Three and four wheeled play-wagons and coasters for children. No. 149,287; Dec. 6.

White Heat Products Company, The, West Chester, Pa. Crude abrasive material, crushed abrasive material, (uncrushed) and abrasive grains. No. 149,288; Dec. 6.

Whitfield, Albert S., Chattanooga, Tenn. Medicinal preparation. No. 149,289; Dec. 6.

Whitman, Stephen F., & Son, Inc., Philadelphia, Pa. Candy. No. 149,290; Dec. 6.

Wiley, Laura, New York, N. Y. Hair-grower. No. 149,291; Dec. 6.

Will & Baumer Candle Co., Inc., Syracuse, N. Y. Candles. No. 149,291; Dec. 6.

Williams Company, The, London, Ohio. Steel wool. No. 149,292; Dec. 6.

Williams-Richardson Company, Ltd., New Orleans, La. Cotton piece goods. No. 149,293; Dec. 6.

Willmarth, Robert L., Jersey City, N. J. Tooth-paste. No. 149,294; Dec. 6.

Wisconsin Honey Farm, Oconomowoc, Wis. Comb and extracted honey. No. 149,295; Dec. 6.

Wolfram, Emil, Columbus, Ohio. Medicinal preparation. No. 149,296; Dec. 6.

Wortendyke Manufacturing Co., Richmond, Va. Toilet-paper, paper napkins and towels. No. 149,297; Dec. 6.

Wurrambo Manufacturing Company, Bath, Me. Woolen goods in the piece. No. 149,297; Dec. 6.

York Mfg. Co., Saco, Me., and Boston, Mass. Gingham in the piece. No. 149,298; Dec. 6.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Acme Die Casting Corporation, Brooklyn and New York, N. Y. Die-castings for various. No. 129,829; Dec. 6.

Acme Shear Company, The, Bridgeport, Conn. Cast-iron scissors and shears. No. 130,347; Dec. 6.

American Floor Surfacing Machine Co., Toledo, Ohio. Floor-surfacing machines. No. 149,212; Dec. 6.

American Stropper Corporation, Baltimore, Md. Mechanical strippers for safety-razor blades. No. 154,340; Dec. 6.

Armour Oil Chemical Company, Kansas City, Mo. Ready-mixed paints. No. 137,826; Dec. 6.

Asi, Anthony, New York, N. Y. Soaps and soap powders. No. 152,316; Dec. 6.

Atkinson, Samuel E., Woodstock and Chicago, Ill. Bracing Bar. No. 142,732; Dec. 6.

Audubon Chemical Company, The, New Orleans, La. Mosquito repellent. No. 148,211; Dec. 6.

Automobile Gasoline Company, The, St. Louis, Mo. Gasolene. No. 151,975; Dec. 6.

Badische Anilin- & Soda Fabrik, Ludwigshafen-on-Rhine, Germany. Leather preservatives, finishing and turning agents. No. 153,173; Dec. 6.

Barnaby Manufacturing Company, Buffalo, N. Y. Mattresses for beds, &c. No. 152,605; Dec. 6.

Barlow-Moore Tobacco Company, Glasgow, Ky. Twist, plug, and smoking tobacco. No. 149,885; Dec. 6.

Bass Barker Co., Rockwell City, Iowa. Insecticide. No. 151,690; Dec. 6.

Beam, O. A., & Son, Hemlock, N. Y. Wheat-flour, canned goods, sauce, butter, &c. No. 142,052; Dec. 6.

Benwitch, William, Oakland, Calif. Cigars. No. 154,010; Dec. 6.

Bernstein, Paul I., San Francisco, Calif. Cigars. No. 147,648; Dec. 6.

Roker Cutlery & Hardware Company, Inc., New York, N. Y. Hair-clippers. No. 151,445; Dec. 6.

Bordeaux & New York Trading Co., New York, N. Y. Sardines. Nos. 149,052–3; Dec. 6.

Boss Manufacturing Company, The, Kewanee, Ill., and Brooklyn, N. Y. Cotton or canvas gloves and mittens. No. 141,451; Dec. 6.

Briggs & Stratton Company, Milwaukee, Wis. Detachable-hydrocarbon-motor wheels for bicycles, &c. No. 137,400; Dec. 6

Brockman Company, The, Chicago, Ill. Auto-seats, camp and folding chairs. No. 153,060; Dec. 6.

California Corrugated Culvert Co., Oakland, Calif. Metal grain-bins, watering tanks and troughs, &c. No. 136,901; Dec. 6.

California Optical Company, San Francisco, Calif. Lenses, glasses, and mirrors. No. 149,848; Dec. 6.

Capitol Lunch System, Brooklyn, N. Y. Food and food products cooked and prepared ready to be eaten. No. 152,887; Dec. 6

Carroll, William B., Chicago, Ill. Finishes for leathers. No. 137,761; Dec. 6.

Cassity, Minnie L., Manson, Wash. Liniments. No. 151,576; Dec. 6

Central Cigar Manufacturing Company, New York, N. Y. Cigars. No. 152,918; Dec. 6.

Central Tractor Company, The, Greenwich, Ohio. Tractors. No. 149,212; Dec. 6

Christian Peper Tobacco Co., St. Louis, Mo. Cigarettes. No. 150,160; Dec. 6.

Christian Peper Tobacco Co., St. Louis, Mo. Tobacco. No. 152,784; Dec. 6

Christian Peper Tobacco Co., St. Louis, Mo. Smoking and chewing tobacco. No. 153,444; Dec. 6.

Cochran, Eugene S., Washington, D. C. Cigars, cigarettes, tobacco. No. 149,889; Dec. 6.

Cochran, Roy H., Ventner, N. J. Toilet or complexion cream. No. 153,072; Dec. 6.

Colgate & Company, Jersey City, N. J. Liquid and powdered perfumes. No. 152,883; Dec. 6.

Craig Manufacturing Co., Ensley, Ala. Breather-plugs for internal-combustion engines. No. 150,309; Dec. 6.

Day, Robert L. G., Spokane, Wash. Rope-machines. No. 150,891; Dec. 6

Decatur Brewing Company, Decatur, Ill. Hops. No. 153,872; Dec. 6.

Decora Manufacturing Co., Richmond, Calif. Air-brush plants. No. 140,688; Dec. 6.

Dewey, H. F., & Sons Co., New York, N. Y. Medicinal tonic for nervous troubles. No. 150,738; Dec. 6.

Du Pont E. I. de Nemours & Company, Wilmington, Del. Pyroxylin and nitrocellulose. No. 150,439; Dec. 6

Duke, Abrahams & Payson, Inc., New York, N. Y. Ladies' and misses' dresses. No. 148,883; Dec. 6.

Dunsill, Alfred, London, England. Tobacco, cigars, and cigarettes. No. 153,079; Dec. 6.

Dunn, John, Son and Co., New York, N. Y. Bolts and nuts, chain, woven-wire fencing. No. 140,868; Dec. 6.

Emery Rubber Heel Company, Boston, Mass. Rubber heels. No. 150,354; Dec. 6.

Edwards, Louis F., New York, N. Y. Belt lubricator or dressing. No. 153,652; Dec. 6.

Fairbanks Company, The, New York, N. Y. Wheelbarrows and tools and machinery. No. 121,110; Dec. 6.

Falk Tobacco Company Incorporated, New York, N. Y. Cigars, cigarettes, tobacco. No. 152,505; Dec. 6.

Flood, William, Company, The, Cleveland, Ohio. Liquid stains. No. 153,162; Dec. 6.

Friedman, Hugo, Chicago, Ill. Extracting-elevators, dental surgical curettes, &c. No. 145,105; Dec. 6.

Gallaher, Ltd., Belfast, Ireland. Tobacco, cigarettes, cigars, snuff. No. 152,422; Dec. 6.

Gebruder, Bühler, Uzwil, Switzerland. Grain-separators and cleaning-machines, shaking-screens, &c. No. 136,781; Dec. 6.

General Securities Corporation, Camden, N. J. Bonds, interest-coupons, promissory notes, &c. No. 137,774; Dec. 6.

Getz Power Washer Co., Morton, Ill. Laundry-washing machines. No. 153,143; Dec. 6.

Goldsmith Brothers Smelting and Refining Company, Chicago, Ill. Dental supplies. No. 152,798; Dec. 6.

Grennan Cake Corporation, Chicago, Ill. Cake. No. 150,528; Dec. 6.

Grommes & Bloss, Chicago, Ill. Cigars. No. 150,745; Dec. 6.

Hammel Biglander & Co., New York, N. Y. Gravers, chisels, gouges, &c. No. 151,007; Dec. 6.

Hansen, Jorgen M., Lake Forest, Ill. Mattresses and cushions. No. 153,000; Dec. 6.

Hansen's, Chr., Laboratory, Inc., Little Falls, N. Y. Butter and cheese colors and rennet extract. No. 141,567; Dec. 6.

Harris, William, Cambridge, Ohio. Rolling-pins. No. 150,445; Dec. 6.

Hay, Clarence C., Como, Miss. Rouge, dandruff remedy, and hair-tonic, &c. No. 151,672; Dec. 6.

Hendershot, John T., Newton, N. J. Corn-plasters. No. 151,714; Dec. 6.

Higgins, Mary E., Chicago, Ill. Finishing-strips, temporary stopping, broaches, or nerve-extractors. No. 142,786; Dec. 6.

Hodder, Arthur R., assignor to Northampton Hosiery Company, Northampton, Mass. Hosiery. No. 148,838; Dec. 6.

Hoeft, John, Peoria, Ill. Furniture-polish. No. 143,168; Dec. 6.

Hoffman, Israel, New York, N. Y. Hair curlers and wavers. No. 153,248; Dec. 6.

Hoover & Allison Company, The, Xenia, Ohio. Cordage. No. 154,514; Dec. 6.

Hunziker, Emil B., Seattle, Wash. Milk-bottle-cap lifter. No. 151,671; Dec. 6.

Ideal Rim Tool Company, Jacksonville, Fla. Rim-tools. No. 151,543; Dec. 6.

International Tag Co., Chicago, Ill. Shipping-tags. No. 153,936; Dec. 6.

Jaffe, Louis, New York, N. Y. Sanitary rubber sheeting, sanitary aprons, belts, and napkins, &c. No. 147,100; Dec. 6.

Jones, Cecile, New York, N. Y. Cigarettes. No. 154,031; Dec. 6.

Kane Chemical Company, Kane, Ill. Powdered deodorant and disinfectant. No. 153,218; Dec. 6.

Kennedy, Ernest N., London, England. Pocket-knives. No. 151,515; Dec. 6.

King Blair Co., Detroit, Mich. Men's and youths' suits and overcoats. No. 146,636; Dec. 6.

Koppel Industrial Car & Equipment Co., Koppel and Pittsburgh, Pa. Railway rails, ties, and switch-points, fish-plates, &c. No. 130,563; Dec. 6.

Lee, Palmer C., Bellingham, Wash. Cigars. No. 150,624; Dec. 6.

Lemoine, Jules L., Paris, France. Coffee-percolators, coffee and tea urns, &c. No. 149,809; Dec. 6.

Levy Mattress Company, Inc., New Orleans, La. Pillows. No. 153,008; Dec. 6.

Lewis, L., Cigar Manufacturing Co., Newark, N. J. Cigars. Nos. 147,560–1; Dec. 6.

Lindauer, Jules, Paris, France. Socks-supporters, hose-supporters, corsets. No. 146,265; Dec. 6.

Louvre Knitting Mills, Inc., New York, N. Y. Men's mufflers and knitted ties, ladies' Angora-wool sets, silk scarfs, &c. No. 149,087; Dec. 6.

Mackie Pine Oil Specialty Co., Inc., Covington, La. Remedy for coughs, colds, burns, cuts, &c. No. 129,937; Dec. 6.

Marsallse, Ben. De Ridder, La. Foot-powder. No. 151,634; Dec. 6.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Mason City Oil & Grease Company, Mason City, Iowa. Gasoline and kerosene. No. 151,640; Dec. 6.
Meyer, Arthur E., Chicago, Ill. Rivet-upsetting machine. No. 115,241; Dec. 6.
Midwest Steel & Supply Co. Inc., New York, N. Y. Bolts, anchor-rail bolts, and clamps used with anchor-rails, stringers, and metal sections. No. 144,229; Dec. 6.
Mogel, J. A., Inc., New York, N. Y. Women's skirts, petticoats, waists, suits, &c. No. 149,016; Dec. 6.
Milgram, Edward H., Gary, Ind. Boots, shoes, and overshoes of leather, rubber fabrics, and combinations of same. No. 147,972; Dec. 6.
Milstead, Agnes, London, England. Preparation for removing superfluous hairs from the skin. No. 144,748; Dec. 6.
Motor Oil Specialty Co., New York, N. Y. Lubricating oils and greases. No. 152,086; Dec. 6.
Moulis, Felix, Paris, France. Rubber solution to be applied on leather and on rubber for repairing same. No. 150,453; Dec. 6.
Moulton, William H., Belleville, N. J. Chemical preparation for removing carbon from the cylinders of internal combustion engines. No. 149,014; Dec. 6.
Nash Engineering Company, South Norwalk, Conn. Vacuum heating and condensation pumps. No. 150,654; Dec. 6.
New York Mackintosh Clothing Company, New York, N. Y. Raincoats. No. 149,020; Dec. 6.
New York Tribune, Inc., New York, N. Y. Title of a newspaper-column. No. 152,211; Dec. 6.
Newman, I., & Sons, New Haven, Conn. Corsets. No. 149,199; Dec. 6.
Nichols, F. P., & Son, New York, N. Y. Liquid preparation for washing printers' rollers. No. 152,044; Dec. 6.
Northern Warren Corporation, New York, N. Y. Cuticle-remover. No. 151,646; Dec. 6.
Northampton Hosiery Company. (See Hodder, Arthur R., assignor.)
Northwestern Consolidated Milling Company, The, Minneapolis, Minn., and New York, N. Y. Wheat flour. No. 121,353; Dec. 6.
Noxon Chemical Products Co., Newark, N. J. Cleaner-polish for metals, glass, and porcelain. No. 144,261; Dec. 6.
Ohio Valley Drug Company, Wheeling, W. Va. Skin-lotion. No. 151,591; Dec. 6.
Omaha Alfalfa Milling Co., Omaha, Nebr. Horse and cattle feed. No. 149,095; Dec. 6.
Onita Specialty Co., Brooklyn, N. Y. Bath-robes, sacks, buntings, &c., for infants. No. 144,041; Dec. 6.
Oregon Growers Cooperative Assn., Salem, Oreg. Dried, canned, and fresh fruits, berries, and vegetables, &c. No. 147,452; Dec. 6.
Orr Machine Guarding Co., The, Trenton, N. J. Metallic guards for machinery. No. 151,843; Dec. 6.
Palmsek Brothers, Inc., New York, N. Y. Monthly magazine. No. 152,931; Dec. 6.
Pease & Dwyer Co., Memphis, Tenn. Feed. No. 142,523; Dec. 6.
Perklomen Trunk and Bag Company, Inc., The, Philadelphia, Pa. Trunks. No. 145,413; Dec. 6.
"Perolin" Fabrikationsgesellschaft, m. b. H., Vienna, Austria. Spray-diffusers for fluids and disinfectants. No. 149,817; Dec. 6.
Pfeiffer, S., Manufacturing Company, St. Louis, Mo. Medicinal tonic. No. 131,040; Dec. 6.
Phillipsborn's, Inc., Chicago, Ill. Women's and misses' waists. No. 147,679; Dec. 6.
Phillipsborn's Inc., Chicago, Ill. Men's suits and overcoats. No. 147,681; Dec. 6.
Phillipsborn's, Inc., Chicago, Ill. Overalls, work-shirts, and pants for men and boys. No. 147,682; Dec. 6.
Plumbers Supply Company, Joplin, Mo. Bathtubs, lavatories, sinks, &c. No. 147,120; Dec. 6.
Presto Chemical Co., Detroit, Mich. Cleaning fluid. No. 133,517; Dec. 6.
Quimby, Edmund B., Tampa, Fla. Cigars. No. 147,885; Dec. 6.
Redmanol Chemical Products Co., Chicago, Ill. Casein products for use in the manufacture of cigar and cigarette holders, pipes, &c. No. 152,923; Dec. 6.
Reliance Manufacturing Company, Chicago, Ill. Work-shirts. No. 140,409; Dec. 6.
Rhodes, Ruth R., Miami, Fla. Medicine and pharmaceutical preparation, the same being a lotion for skin irritations. No. 151,009; Dec. 6.
Richman, Newburger & Travers, New York, N. Y. Boys' and young men's suits. No. 141,188; Dec. 6.
Rodifer, Joseph A., Phoenix, Ariz. Women's and children's dress and aprons. No. 149,694; Dec. 6.
Rohm & Haas Company, Philadelphia, Pa. Chemical used for the tanning of hides. No. 152,956; Dec. 6.
Russell Manufacturing Company, The, Middletown, Conn. Ladies' dress-goods. No. 131,657; Dec. 6.
Samson Tobacco Company Incorporated, The, Glasgow, Ky. Twist and granulated smoking-tobacco. No. 149,450; Dec. 6.
Schaefer, Estate of Joseph J., deceased, Dayton, Ohio. Cigars. No. 146,040; Dec. 6.
Schaefer, Estate of Joseph J., deceased, Dayton, Ohio. Cigars. No. 146,042; Dec. 6.
Schaefer, Estate of Joseph J., deceased, Dayton, Ohio. Cigars. No. 146,045; Dec. 6.
Schanfel Bros., Newark, N. J. Manicure-files. Nos. 148,307-10; Dec. 6.
Shantz, M. B., Incorporated, Rochester, N. Y. Buttons of vegetable ivory. No. 153,480; Dec. 6.
Sharp, Ulysses G., Urichsville, Ohio. Cigars. No. 149,106; Dec. 6.
Shawnee Textile Company, Middletown, Pa. Hosiery. No. 146,525; Dec. 6.
Société Rodier, Paris, France. Cotton piece goods. No. 148,298; Dec. 6.
Sonnenfeld, Joseph, Brooklyn, N. Y. Cigars. No. 152,789; Dec. 6.
Stamets, William K., Pittsburgh, Pa. Lathes, planers, shapers, &c. No. 149,783; Dec. 6.
Star Bedding Co., St. Louis, Mo. Feather pillows. No. 153,524; Dec. 6.
Stegall, R. M., Chattanooga, Tenn. Dairy feed. No. 150,200; Dec. 6.
Tenebaum, J., & Sons, New York, N. Y. Ladies' hats. No. 148,250; Dec. 6.
Tibbitts-Hewitt Gro. Co., St. Louis, Mo. Canned fruits, vegetables, and fish and coffee. No. 147,705; Dec. 6.
Thomson-Diggs Company, The, Sacramento, Calif. Tinware, tinned, enameled, aluminum, and galvanized ware. No. 148,183; Dec. 6.
Union Cutlery Co., Olean, N. Y. Razors. No. 151,644; Dec. 6.
United Drug Company, Boston, Mass. Non-alcoholic vehicle or base for use by pharmacists in compounding prescriptions. No. 153,161; Dec. 6.
United Kingdom Company, Limited, London, England. Cigarettes. No. 150,120; Dec. 6.
United States Foil Company, Louisville, Ky. Foil wrappers. No. 148,959; Dec. 6.
United Steel and Wire Co., Battle Creek, Mich. Poultry-crates. No. 140,857; Dec. 6.
Waldes & Co., Prague, Bohemia, assignor to Waldes & Co., Inc. Snap-fasteners. No. 121,072; Dec. 6.
Ward-Owsley Co., Aberdeen, S. D. Candy. No. 144,596; Dec. 6.
Welwel Cigar Manufacturing Co., New York, N. Y. Cigars. No. 149,254; Dec. 6.
Werne Manufacturing Company Inc., Richmond, Va. Medicinal preparation for aiding in the treatment of respiratory, muscular, and surface ailments. No. 153,164; Dec. 6.
Whitcomb, Joseph, & Co., Springfield, Mass. Cigars. No. 150,363; Dec. 6.
Wilson, Ralph W., New York, N. Y. Caps and tops of receptacles. No. 147,650; Dec. 6.
Winter, Martin, New York, N. Y. Drawing instruments and appliances. No. 148,252; Dec. 6.
Worcester Brush and Scraper Company, Worcester, Mass. Boiler-tube cleaners. No. 148,101; Dec. 6.
Worthington Pump and Machinery Corporation, New York, N. Y. Liquid, piston, disk, &c., meters, disk counters. No. 143,809; Dec. 6.
Yorkville Manufacturing Co. Inc., New York and Brooklyn, N. Y. Polishing wheels and disks. No. 152,574; Dec. 6.
Zorro Tobacco Co. Inc., The, New York, N. Y. Smoking-tobacco. No. 149,452; Dec. 6.
Zündwaren-Aktiengesellschaft Helios, Prague-Vinohrady, Czecho-Slovakia. Matches. No. 145,901; Dec. 6.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 6TH DAY OF DECEMBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abdominal support. F. Z. Husar. No. 1,399,886; Dec. 6.
Acids and the precipitation of salts contained in waters, Preparations for the neutralisation of the. V. G. Lorenzo. No. 1,399,598; Dec. 6.
Addressing-machines, Paper-strip feed for. F. Trinks. No. 1,399,450; Dec. 6.
Advertising device. E. A. Sieder. No. 1,399,409; Dec. 6.
Advertising-machine, Automatic. H. W. Lundquist. No. 1,399,435; Dec. 6.
Aeroplanes, Inclinometer for. N. W. Spencer. No. 1,399,000; Dec. 6.
Agricultural implement, Self-propelled. H. C. Baines. No. 1,399,040; Dec. 6.
Agricultural implements, Tractor connection for. P. J. O'connor. No. 1,399,072; Dec. 6.
Agricultural machine. R. Bernstein. No. 1,399,045; Dec. 6.
Air-compressor. D. M. Putnam and H. M. Dunlap. No. 1,399,151; Dec. 6.
Aircraft, Propeller for. A. Brulle. No. 1,399,290; Dec. 6.
Airplane-indicator. W. B. Cunningham. No. 1,399,423; Dec. 6.
Alarm: *See*—
Burglar-alarm.
Alkyl sulfuric acid, Making. G. P. Adamson. No. 1,399,238; Dec. 6.
Amusement apparatus. H. F. Maynes. (Reissue.) No. 15,244; Dec. 6.
Amusement device. J. Sayih. No. 1,399,582; Dec. 6.
Anchor, Tension-. E. B. Hicker. No. 1,399,153; Dec. 6.
Antiseptic solution. A. S. Cushman. No. 1,399,007; Dec. 6.
Antiskid device. A. I. Sandbo. No. 1,399,658; Dec. 6.
Antiskid device. G. F. Snow. No. 1,399,163; Dec. 6.
Antiskid device for motor-vehicles. V. L. Gosney. No. 1,399,612; Dec. 6.
Antiskid-tread. L. Angelo. No. 1,399,179; Dec. 6.
Arch-support. G. F. Spiegel. No. 1,399,447; Dec. 6.
Arm, Artificial. W. Sourek and J. Kopfhamer. No. 1,399,031; Dec. 6.
Arm frame, Artificial-. A. Hulsemann. No. 1,399,622; Dec. 6.
Articles by disruptive conduction, Apparatus for treating. F. S. Smith. No. 1,399,161; Dec. 6.
Asphalt or like hydrocarbonaceous material, Fire-resisting. J. H. Young. No. 1,398,991; Dec. 6.
Auger, Earth-. F. W. Perry. No. 1,399,074; Dec. 6.
Auto-signal. M. R. Gruender. No. 1,399,615; Dec. 6.
Automobile-fender. E. V. Allen. No. 1,398,957; Dec. 6.
Automobile frame members and frame. S. I. Fekete and S. G. Baits. No. 1,399,201; Dec. 6.
Automobile-signal. E. J. Sauer. No. 1,399,524; Dec. 6.
Automobile-tilting frame. A. J. and J. R. Mise and J. W. Ivers. No. 1,399,641; Dec. 6.
Automobile-wheel. E. K. Baker. No. 1,399,720; Dec. 6.
Automobile-wheel. C. G. Hawley. No. 1,399,719; Dec. 6.
Automobiles, Rainproof hood-cover for. G. F. Mansfield. No. 1,399,528; Dec. 6.
Automobiles, Signaling device for. A. McLaren. No. 1,399,120; Dec. 6.
Automobiles, Truck attachment for. J. Anderson. No. 1,399,597; Dec. 6.
Automotive equipment, Silencer for. I. K. Rystedt. No. 1,399,157; Dec. 6.
Axle. G. F. Morgan. No. 1,399,069; Dec. 6.
Axle-brace. R. C. Osgood. No. 1,399,698; Dec. 6.
Baling-press, Indicator for. H. H. Hardt. No. 1,399,473; Dec. 6.
Ball-fuller. D. B. Bird. No. 1,399,459; Dec. 6.
Ball, Playing. C. F. Craig and H. M. Connor. No. 1,399,293; Dec. 6.
Ball-practice device, Captive-. C. F. Craig and H. M. Connor. No. 1,399,292; Dec. 6.
Ball-rolling apparatus. F. M. Canda. Nos. 1,399,686–7; Dec. 6.
Ballast and fuel-tanks, Valved controlling apparatus for ostboard. F. Lantz. No. 1,399,263; Dec. 6.
Barb-wire machines, Automatic stop for. F. Heilman. No. 1,399,144; Dec. 6.
Barrel-protector. W. F. Mack. No. 1,399,569; Dec. 6.
Bathtubs, Headrest for. S. S. Lotter and R. R. Hatton. No. 1,399,152; Dec. 6.
Battery-box. G. M. Eaton. No. 1,399,702; Dec. 6.
Bearing, Antifriction thrust-. M. G. Campbell. No. 1,399,190; Dec. 6.
Bearing-backs, Lining. C. W. Eggenweiler. No. 1,399,252; Dec. 6.
Bed-frame, Collapsible camp. F. A. Miller and B. M. Tanner. No. 1,399,363; Dec. 6.
Bed-spring. H. Litvak. No. 1,399,501; Dec. 6.
Bed, table, and settee, Combination. C. H. Gunn. No. 1,394,342; Dec. 6.
Belt. J. R. Randle. No. 1,399,654; Dec. 6.
Belt and fastener therefor, Wide. F. R. Batchelder. No. 1,399,457; Dec. 6.
Belt-guide. J. Rocke. No. 1,399,578; Dec. 6.
Belt-shifter. E. E. Jones. No. 1,399,388; Dec. 6.
Bicycle sleigh attachment. C. K. Nagy. No. 1,399,643; Dec. 6.
Binder, Loose-leaf. O. E. Jones. No. 1,399,010; Dec. 6.
Binder, Loose-leaf. H. B. Lewis. No. 1,399,629; Dec. 6.
Bit-box. M. D. Airgood. No. 1,399,680; Dec. 6.
Blanks, Trimming. B. W. Lindquist. No. 1,399,132; Dec. 6.
Block-press. E. Frey. No. 1,399,338; Dec. 6.
Blood-pressure, Making means for reducing. A. Zuelzer. No. 1,399,535; Dec. 6.
Blower, Ball-cavity. M. Miller. No. 1,399,068; Dec. 6.
Board: *See*—
Water-board.
Bobbin-stripper. C. A. Pierce. No. 1,399,025; Dec. 6.
Boiler: *See*—
Electrical boiler.
Boiler efficiency, Device for increasing. O. Yamashita. No. 1,399,236; Dec. 6.
Boilers, Clothes-drier for hot-water. B. Leahy. No. 1,399,721; Dec. 6.
Boilers, Composition for preventing incrustation in steam-. A. Pesse. No. 1,399,657; Dec. 6.
Book-stitching machines, Automatic feeder for. W. A. Heitshu. No. 1,399,555; Dec. 6.
Bottle. L. B. Newell. No. 1,399,313; Dec. 6.
Bottle-cap-tubing machine, Milk-. P. R. Simmons. No. 1,399,586; Dec. 6.
Bottle-conveying machine. J. Jimas. No. 1,399,260; Dec. 6.
Box: *See*—
Battery-box. Display-box.
Bit-box. Sound-box.
Box-filling machine. J. P. Wright. No. 1,399,039; Dec. 6.
Box-opener. C. L. Hahn. No. 1,399,618; Dec. 6.
Brake: *See*—
Cushion-brake. Vacuum-brake.
Back-pedaling coaster-brake.
Brake attachment. W. B. Uffert. No. 1,399,591; Dec. 6.
Brake mechanism, Compound. E. Posson. No. 1,399,078; Dec. 6.
Brush. F. A. Shelton. No. 1,399,368; Dec. 6.
Brush, Street-sweeping. C. W. Lund. No. 1,399,634; Dec. 6.
Buckle. W. E. Guyot. No. 1,399,343; Dec. 6.
Building block or slab. R. Murray. No. 1,399,023; Dec. 6.
Building-blocks, Machine for making. F. J. Straub. No. 1,399,325; Dec. 6.
Building unit, Reinforced. W. Seymour. No. 1,399,088; Dec. 6.
Burglar-alarm. P. V. Vandevelde. No. 1,399,170; Dec. 6.
Burner: *See*—
Atomizing oil-burner. Oil-burner.
Gas-burner.
Burner-cleaner. E. Rector. No. 1,399,055; Dec. 6.
Button, Cuff-. R. F. B. Allen. No. 1,398,954; Dec. 6.
Buttons, Fastening of the spring-sockets of press-. A. Pryns. No. 1,399,319; Dec. 6.
Cable-equalizer. G. A. Taylor. No. 1,399,326; Dec. 6.
Cables, Retaining device for elevating-. B. F. Fitch. No. 1,399,053; Dec. 6.
Cables, Tool for splicing. N. E. Bowman. No. 1,399,101; Dec. 6.
Cadmium pigment, Manufacture of. J. R. Marston. No. 1,399,508; Dec. 6.
Cake-cutter. L. C. Trethewey. No. 1,399,449; Dec. 6.
Calcium cyanamid, Granulating. P. Savés. No. 1,399,660; Dec. 6.
Calculating-machines, Arresting means for the shifting-crank of. V. J. Odhner. No. 1,399,645; Dec. 6.
Calculating-machines, Setting-up means for. E. E. Phinney. No. 1,399,652; Dec. 6.
Camphor series and making same, Quaternary base of the. H. Hupe. No. 1,399,082; Dec. 6.
Can: *See*—
Freezing-can. Liquid-containing can.

Cans, Depth-filled-gaging machine for. J. Kelsington. No. 1,399,214; Dec. 6.
Caoutchouc-like substances, Manufacturing. F. Graf de la Rosée. No. 1,399,475; Dec. 6.
Cap, Dust-. S. V. Myers. [illegible]; Dec. 6.
Car coupling and draft-yoke connection. E. George, Jr. No. 1,399,698; Dec. 6.
Car-door operator. S. Larson. No. 1,399,627; Dec. 6.
Car, Refrigerator-. S. Passon. No. 1,399,670; Dec. 6.
Car-truck. J. F. Hathaway. No. 1,399,708; Dec. 6.
Car unloading or dumping apparatus. E. M. Hall. No. 1,399,491; Dec. 6.
Cars, Draft-arm construction for. E. Passon. No. 1,399,677; Dec. 6.
Cars, Valve mechanism for tank-. M. A. Garrett. No. 1,399,976; Dec. 6.
Cars, Window-curtain for street-. R. Fabrian. No. 1,399,252; Dec. 6.
Carburetor. C. C. Little. No. 1,399,353; Dec. 6.
Carbureter. A. Loomis. No. 1,399,695; Dec. 6.
Card-feeding mechanism. J. Gunther and A. Schneider. No. 1,399,219; Dec. 6.
Card-feeder. J. R. Howe. No. 1,399,597; Dec. 6.
Cards, Device for displaying. F. C. Ironside. No. 1,399,444; Dec. 6.
Carrier: *See*—
Gravity-carrier. Running-rag carrier.
Luggage-carrier.
Case: *See*—
Watch-case.
Centering device, Mold-. O. H. First. No. 1,399,209; Dec. 6.
Chair; *See*—
Rail-chair. Rocking-chair.
Chain' fastener and tightener. F. M. Trimmer. No. 1,399,540; Dec. 6.
Chains to wheels in motion, Device for applying. H. C. Dorsey. No. 1,399,700; Dec. 6.
Chair. F. D. Hunt. No. 1,399,421; Dec. 6.
Chair-iron. D. R. Collier. No. 1,399,464; Dec. 6.
Chair-iron. D. R. Collier. No. 1,399,466; Dec. 6.
Check-protector, Vest-pocket. I. C. Edwards. No. 1,399,703; Dec. 6.
Checker. H. L. Winslow. No. 1,399,453; Dec. 6.
Checkrein-holder. E. K. Clover. No. 1,399,464; Dec. 6.
Chime-operating apparatus. F. B. Little. No. 1,399,972; Dec. 6.
Chiropractic table. W. G. Williams. No. 1,399,419; Dec. 6.
Chopper: *See*—
Food-chopper.
Cigarette-machine. M. C. Grahl. No. 1,399,280; Dec. 6.
Cigarette-tubes with hollow mouthpieces, Manufacturing. M. C. Grahl. No. 1,399,581; Dec. 6.
Cigars, Machine for pressing. R. Woerner. No. 1,399,276; Dec. 6.
Cinematographic apparatus. J. Lehmann. No. 1,399,567; Dec. 6.
Circuit-interrupter. J. F. Tritle. No. 1,398,982; Dec. 6.
Clamp: *See*—
Conductor-clamp. Rope-clamp.
Clamping mechanism. H. C. Johansen. No. 1,399,561; Dec. 6.
Clasp: *See*—
Necktie-clasp. Soft collar clasp.
Clays, Decolorizing. E. Levitt. No. 1,399,217; Dec. 6.
Cleaner: *See*—
Burner-cleaner. Windshield-cleaner.
Cleaning apparatus. I. H. Spencer. No. 1,399,168; Dec. 6.
Clock movement, Chime and strike. F. Wehinger. No. 1,399,452; Dec. 6.
Closure, Lacing-. A. Balthasar. No. 1,398,985; Dec. 6.
Closures, Apparatus for applying. E. L. Greenewald. No. 1,398,983; Dec. 6.
Clothespin. F. M. Kilfoyle. No. 1,399,969; Dec. 6.
Clothespin. C. Schroeder and A. Kuehl. No. 1,399,041; Dec. 6.
Clothes-rack, Folding. H. G. Runns. No. 1,399,156; Dec. 6.
Coal piles, Apparatus for preventing spontaneous combustion in. J. A. Thomas. No. 1,399,066; Dec. 6.
Coaster-brake, Back-pedaling. A. Kristen. No. 1,399,711; Dec. 6.
Coin-collecting and change-making device. G. A. Pardue. No. 1,399,650; Dec. 6.
Coke-oven door and doorway. L. Wilputte. No. 1,399,594; Dec. 6.
Coke-oven-wall construction. L. Wilputte. No. 1,399,595; Dec. 6.
Coke-ovens, and the like, Heating-wall for. A. Roberts. No. 1,399,275; Dec. 6.
Collar clasp, Soft-. H. Kapotkin. No. 1,399,559; Dec. 6.
Composition of matter. J. H. Smith, Jr., and C. A. Wilson. No. 1,398,979; Dec. 6.
Concrete and masonary structures, Supporting-form for. G. W. Jackson. No. 1,398,968; Dec. 6.
Concrete construction, Twisted metal bar for reinforced. H. K. Dyson. No. 1,399,701; Dec. 6.
Condenser. G. Engel, Sr. No. 1,399,294; Dec. 6.
Condenser. R. F. Goecke. No. 1,399,611; Dec. 6.
Conductor-clamp. S. S. Matthes. No. 1,399,140; Dec. 6.
Conduits, &c., Producing. T. E. Murray. No. 1,399,308; Dec. 6.
Connector. H. E. Parson. No. 1,399,399; Dec. 6.
Controlling and cap therefor. G. M. S. Tait. No. 1,398,871; Dec. 6.
Controlling Machine for forming tubular. A. C. V. Malm. No. 1,398,624; Dec. 6.
Control or switching [illegible]. H. H. Gaston. No. 1,399,131; Dec. 6.
Control system of. E. J. Simmon. No. 1,399,469; Dec. 6.
Conveyer. P. O. Lewis. No. 1,399,120; Dec. 6.
Cooking vessel, Domestic. G. W. Watts. No. 1,399,004; Dec. 6.
Coupler. W. G. Thompson. No. 1,399,449; Dec. 6.
Cars, Coupling and starting mechanism for. A. Eternad. No. 1,399,419; Dec. 6.
Corset, Apparel-. D. Kops. Nos. 1,399,485-7; Dec. 6.
Coupling: *See*—
Vehicle-coupling.
Coupling and yoke connection. E. George, Jr., and I. H. Mitchell. No. 1,399,910; Dec. 6.
Coupling and yoke connection. W. Kelsey. No. 1,399,699; Dec. 6.
Crank, Hand-. F. A. Ross. No. 1,399,445; Dec. 6.
Cultivator. J. M. Fleming. No. 1,398,981; Dec. 6.
Cultivator. C. S. McCarthy, Jr. No. 1,399,021; Dec. 6.
Cup: *See*—
Freezing-cup.
Curtain-rod. M. M. Welsh. No. 1,399,578; Dec. 6.
Cushion-frame. F. Hymans. No. 1,399,557; Dec. 6.
Cut-out, Safety-. H. F. Kranz. No. 1,399,489; Dec. 6.
Cutter: *See*—
Cake-cutter. Hair-cutter.
Cutters, Process and machine for forming. S. G. Schaad and H. Klemke. No. 1,399,435; Dec. 6.
Cycloidal positive-axial-bearing gearings. J. C. Hass and A. Silver. No. 1,399,459; Dec. 6.
Cylinder construction. J. O. Haines. No. 1,399,624; Dec. 6.
Cylinder-grinding machine. W. H. Johnson. No. 1,399,213; Dec. 6.
Cylinder-lock. S. Segal. No. 1,399,159; Dec. 6.
Decorative finish, Interior. A. P. Cole. No. 1,399,336; Dec. 6.
Derrick, Portable. W. S. Garrett. No. 1,399,424; Dec. 6.
Detonating composition. W. C. Cope. No. 1,399,104; Dec. 6.
Dial-lock. I. W. Norquinn. No. 1,399,497; Dec. 6.
Dimmer switch. H. F. Laub. No. 1,399,129; Dec. 6.
Disks, Forming wheel-. A. Christianson. No. 1,399,333; Dec. 6.
Disks, Mill for rolling tapered. A. Christianson. Nos. 1,399,423-4; Dec. 6.
Dispensing apparatus. C. L. Bastian. No. 1,399,273; Dec. 6.
Dispensing fixture. G. T. Johnson. No. 1,399,432; Dec. 6.
Display-box. B. B. Perrow. No. 1,399,573; Dec. 6.
Distilling fuel and bituminous rocks, Apparatus for. G. Magri. No. 1,398,907; Dec. 6.
Door-buffer. H. N. Sorensen. No. 1,399,164; Dec. 6.
Door-checking device. J. O. Neslin. No. 1,399,141; Dec. 6.
Door-fastening. P. Sternwald. No. 1,399,167; Dec. 6.
Door-holder. H. F. Corder. No. 1,399,487; Dec. 6.
Door-spring. T. J. Myers. No. 1,399,842; Dec. 6.
Draft device. W. G. Hipes and C. A. Myers. No. 1,399,800; Dec. 6.
Draft regulator. P. Marcynuk. No. 1,399,627; Dec. 6.
Dredging system. C. J. Baer. No. 1,399,286; Dec. 6.
Drilling machine. G. K. Ackerson. No. 1,399,709; Dec. 6.
Drink cooling and dispensing fountain. A. Eckert. No. 1,398,961; Dec. 6.
Drink mixing machine. H. B. Ross. No. 1,399,089; Dec. 6.
Drive mechanism. F. F. Vatvis. No. 1,399,638; Dec. 6.
Drum bar. O. Meyer. No. 1,399,792; Dec. 6.
Dust-cap, Quick-detachable. G. W. Scott. No. 1,399,465; Dec. 6.
Dyeing and apparatus therefor. B. F. Tunchiman, T. W. Gardner, J. A. Bendle, D. M. Sullivan, and J. E. Hardin. No. 1,399,230; Dec. 6.
Dyestuff and producing it. E. Hart. No. 1,399,014; Dec. 6.
Ear-muff. L. Busch. No. 1,398,952; Dec. 6.
Easel. A. E. Mills, Jr. No. 1,399,500; Dec. 6.
Edge-setter and burnisher. O. R. Angell. No. 1,399,665; Dec. 6.
Efficiency-table. W. F. Brennan. No. 1,399,691; Dec. 6.
Egg-beater. J. M. Feeney. No. 1,399,294; Dec. 6.
Egg-beater. A. F. Norberg. No. 1,399,513; Dec. 6.
Egg-washing apparatus. F. E. Howard and J. J. Norris. No. 1,399,016; Dec. 6.
Electrical measurement apparatus. S. J. Levi. No. 1,399,712; Dec. 6.
Electric arcs, Disruption of. J. F. Tritle. No. 1,398,981; Dec. 6.
Electric controlling apparatus. J. L. Schermerhorn. No. 1,399,084; Dec. 6.
Electric fixture. A. B. Allworth. No. 1,398,976; Dec. 6.
Electric heater. S. M. and J. H. Carmean. No. 1,399,008; Dec. 6.
Electric heater. F. C. Hughes. No. 1,399,428; Dec. 6.
Electric meters, operating cranes and analogous apparatus, System of control for. W. H. Scott and J. Bentley. No. 1,399,604; Dec. 6.
Electric resistance elements, Mending. N. Carrico. No. 1,399,479; Dec. 6.
Electric switch mechanism. H. Krantz. No. 1,399,490; Dec. 6.

Electrical boiler. W. M. White. No. 1,399,175; Dec. 6.
Electrical conductors when inclosed in conduits of concrete, &c., Method of and means for cooling. T. S. Mossay. No. 1,399,555; Dec. 6.
Electrical control embodying the use of main auxiliary source of current-supply, Dual system of. E. G. Davis and D. L. Lindquist. No. 1,399,905; Dec. 6.
Electrical precipitating system. L. W. Chubb. No. 1,399,422; Dec. 6.
Electrical protective device. J. J. Lodge. No. 1,399,[illegible]; Dec. 6.
Electrical switch and producing same. A. Oakes. No. 1,399,564; Dec. 6.
Electrical testing-circuit. C. S. Demarest. No. 1,399,896; Dec. 6.
Electrical welding machines, Electrode for. T. E., Jr., and J. B. Murray. No. 1,399,597; Dec. 6.
Electrolytical cells, Diaphragm for. R. Walter. No. 1,399,531; Dec. 6.
Electromagnet. L. Larsen. No. 1,399,450; Dec. 6.
Electrothermal relay. W. A. Risdon. No. 1,399,226; Dec. 6.
Elevator-roll support. R. F. Huddle. No. 1,399,589; Dec. 6.
Embroidering-machine Shuttle for. P. R. Hunsaker. No. 1,399,066; Dec. 6.
Engine: *See*—
Gas-engine.
Internal-combustion engine.
Engine. D. W. Short. No. 1,399,668; Dec. 6.
Engine, which may be directly reversed, Internal-combustion. R. H. Blache. No. 1,399,725; Dec. 6.
Engines, Carburetor-control means for gas-. T. Redfern. No. 1,399,518; Dec. 6.
Engines, Fuel-supply system for internal-combustion. R. T. Stewart. No. 1,399,530; Dec. 6.
Engines, Piston for internal-combustion. G. S. Fowler. No. 1,399,106; Dec. 6.
Engines, Safety-indicator for internal-combustion. G. S. Witham, Jr. No. 1,399,534; Dec. 6.
Engines, Spark-plug for internal-combustion. F. W. Gorinzer. No. 1,399,166; Dec. 6.
Evaporator. H. E. Curtis. No. 1,399,692; Dec. 6.
Explosion-engine, Double-acting four-cycle. C. O. Loukus. No. 1,399,554; Dec. 6.
Explosive. P. J. Guffy. No. 1,399,472; Dec. 6.
Explosive motors, Charge heater for. G. A. Richards. No. 1,399,221; Dec. 6.
Eyelet and hook setting machine. D. Helmsohn. No. 1,399,067; Dec. 6.
Farm-gate. A. Oltman. No. 1,399,372; Dec. 6.
Feed-water regulator. V. V. Veenschoten. No. 1,399,281; Dec. 6.
Feeder. O. H. Johnson and H. F. Webb. No. 1,399,124; Dec. 6.
Feeder, Sectional hop-. L. L. Riner. No. 1,399,716; Dec. 6.
Fenderpost. G. V. Harding. No. 1,399,426; Dec. 6.
Files for cards, &c., Manufacture of back-. A. Gilbert. No. 1,399,530; Dec. 6.
Film pack kit. R. B. Deal. No. 1,399,094; Dec. 6.
Fire-extinguishing systems, Alarm-valve for automatic. E. E. Birkland and G. O. Lillegren. No. 1,399,574; Dec. 6.
Fishing-reel. W. L. Adams. No. 1,399,536; Dec. 6.
Fishing-tool. C. H. Brown. No. 1,399,249; Dec. 6.
Flashlight. E. M. Eaton. No. 1,399,545; Dec. 6.
Flashlight-generator. W. W. Anderson. No. 1,399,598; Dec. 6.
Floors, walls, windows, &c., Device for cleaning and polishing the surfaces of. W. J. Houlihan. No. 1,399,427; Dec. 6.
Flotation apparatus. H. H. Bonnell. No. 1,399,539; Dec. 6.
Flour and meal, Apparatus for making. L. F. Little. No. 1,399,437; Dec. 6.
Fluid-operated motor. G. M. Nell. No. 1,399,223; Dec. 6.
Fluid-pressure system. V. V. Veenschoten. No. 1,399,280; Dec. 6.
Fly-swatter. C. G. Coe. No. 1,399,193; Dec. 6.
Focusing device. A. F. Jobke. No. 1,398,947; Dec. 6.
Folding-machine. W. F. Lautenschlager. No. 1,399,244; Dec. 6.
Folding-machine. C. P. Winter. No. 1,399,098; Dec. 6.
Food-chopper. J. M. Feeney. No. 1,399,295; Dec. 6.
Food-grinder. G. W. Ferdon. No. 1,399,708; Dec. 6.
Footwear-tread, Detachable. W. H. Chenery. No. 1,399,542; Dec. 6.
Force-feed lubricator, Automatic. A. Russ. No. 1,399,522; Dec. 6.
Fourdrinier machine. A. J. Davies. No. 1,399,008; Dec. 6.
Frame: *See*—
Artificial-arm frame. Printing-frame.
Automobile tilting frame.
Collapsible clamp-bed frame.
Freezing-can. A. J. Bentley. No. 1,399,287; Dec. 6.
Fruit-juices, Mechanism for extracting and dispensing. D. J. Gorman. No. 1,399,474; Dec. 6.
Fruit-sizing apparatus. F. J. Pearson. No. 1,399,317; Dec. 6.
Fuel-economizer. C. O. Clark. No. 1,399,689; Dec. 6.
Fuel, Motor-. F. W. Rohrs. No. 1,399,227; Dec. 6.
Funnel. M. E. Ott. No. 1,399,150; Dec. 6.
Furnace: *See*—
Fire-treating furnace. Shaft-furnace.
Furnace. R. Marx. No. 1,399,638; Dec. 6.
Furnace doors, False sill for open-hearth. T. Porter. No. 1,399,510; Dec. 6.
Furniture. O. Ellinson. No. 1,399,706; Dec. 6.
Gage: *See*—
Automatic tympan-gage. Printing-press gage.
Pressure-gage. Wheel-alinement gage.
Game. E. L. Loeser. No. 1,399,133; Dec. 6.
Garment, Convertible. J. Wheeler. No. 1,399,593; Dec. 6.
Garment-hanger. P. S. Emerson. No. 1,399,707; Dec. 6.
Garment-holder, Folding. E. D. Harper. No. 1,399,115; Dec. 6.
Gas-burner. A. H. Wolf. No. 1,399,178; Dec. 6.
Gas-engine. C. F. Zucker. No. 1,399,283; Dec. 6.
Gas-generator. R. E. Ayres. No. 1,399,285; Dec. 6.
Gases from hot water, Device for separating. H. Wehner. No. 1,399,592; Dec. 6.
Gate: *See*—
Farm-gate.
Gear, Change-speed. W. E. Marx. No. 1,399,139; Dec. 6.
Gear, Differential. E. de H. Caldwell. No. 1,399,002; Dec. 6.
Gear, Resilient. O. Fast. No. 1,399,549; Dec. 6.
Gearing, Friction-. T. G. Rennerfelt. Nos. 1,399,442-3; Dec. 6.
Generator: *See*—
Flashlight-generator. Gas-generator.
Girth, Reinforcing-. J. W. Leslie. No. 1,399,063; Dec. 6.
Glare-reflector. E. C. Lytle. No. 1,399,356; Dec. 6.
Glare-stop. J. R. Van Amber. No. 1,399,678; Dec. 6.
Glass chemical ware. A. Mond. No. 1,399,394; Dec. 6.
Glass-drawing apparatus, Sheet-. R. G. Ewing. No. 1,399,547; Dec. 6.
Glass to molds, Means for conveying. J. Whittemore. No. 1,399,176; Dec. 6.
Grading or separating machine. S. Marshall. No. 1,399,022; Dec. 6.
Gravity-carrier. W. G. Price. No. 1,399,318; Dec. 6.
Grease-plug lock, Automatic. W. F. Schmidt. No. 1,399,085; Dec. 6.
Grizzly-screen. G. Hollingbery. No. 1,399,211; Dec. 6.
Gun. O. V. Payne. No. 1,399,440; Dec. 6.
Gun-carriage, Center-pivot. K. Voller. No. 1,399,674; Dec. 6.
Gun-disappearing apparatus. J. A. Moran. No. 1,399,395; Dec. 6.
Gun, Machine-. L. B. Hedges. No. 1,399,119; Dec. 6.
Gyroscopic roll and pitch record. E. A. Sperry. No. 1,399,032; Dec. 6.
Hair-cutter. D. H. Butler. No. 1,399,103; Dec. 6.
Hand-brake mechanism, Compound. R. Passon. Nos. 1,399,675-6; Dec. 6.
Hand-operated implement. H. S. Hall. No. 1,399,113; Dec. 6.
Handbag. A. H. Christie. No. 1,399,377; Dec. 6.
Handsaw. J. C. Dietrich. No. 1,399,009; Dec. 6.
Hanger: *See*—
Garment-hanger.
Harrow, Disk. L. H. Kaupke. No. 1,399,018; Dec. 6.
Harrow lifting and clearing device. P. H. Thiel. No. 1,399,718; Dec. 6.
Harrow, Tandem disk. F. H. French. No. 1,399,607; Dec. 6.
Hasp and latch. C. J. Minton and C. H. Holmes. No. 1,399,640; Dec. 6.
Headlight. J. P. Cluley. No. 1,399,378; Dec. 6.
Headlight. J. R. Moore. No. 1,398,978; Dec. 6.
Headlight for automobiles or other vehicles. P. R. Collier. No. 1,399,195; Dec. 6.
Headlights, Light deflecting means for. D. F. Moriarty. No. 1,399,143; Dec. 6.
Headwear. S. Werner. No. 1,399,726; Dec. 6.
Heater: *See*—
Electric heater. Water-heater.
Electric water-heater.
Heater for gasolene-supply pipes. E. Millner. No. 1,399,393; Dec. 6.
Heating, cooling, and ventilating apparatus. T. Nellson. Nos. 1,399,147-8; Dec. 6.
Heating system. L. M. Ellis. No. 1,399,052; Dec. 6.
Heating system. A. L. Gower. No. 1,399,613; Dec. 6.
Heel and tread insert, Resilient. H. H. Troxel. No. 1,399,328; Dec. 6.
Heel-blank building. J. E. Mitchell and D. Parks. No. 1,399,508; Dec. 6.
Heel for footwear, S. Jamopoulos. No. 1,399,346; Dec. 6.
Helmet or mask. F. M. Bower. No. 1,399,602; Dec. 6.
Hood and scarf, Combined. I. L. Sable. No. 1,399,523; Dec. 6.
Hook. C. Partello. No. 1,399,648; Dec. 6.
Hose and other clamp. H. Turner, Sr. No. 1,399,416; Dec. 6.
Ice-lug. F. R. Danielson. No. 1,399,198; Dec. 6.
Igniter. J. A. Zahn. No. 1,399,727; Dec. 6.
Indian club. F. Nowak. No. 1,399,071; Dec. 6.
Indicator: *See*—
Fire-defiation indicator. Test-indicator.
Insecticide and disinfectant. A. D. Shreve. No. 1,399,585; Dec. 6.
Interlocking system. W. K. Howe. No. 1,399,259; Dec. 6.

Internal-combustion engine. H. L. Brownback. No. 1,399,001; Dec. 6.
Internal-combustion engine. T. W. Kloman. No. 1,399,262; Dec. 6.
Iron: *See*—
Chair-iron.
Ironing-board stand, Collapsible. F. Philipps. No. 1,399,674; Dec. 6.
Jack: *See*—
Lifting-jack. Vehicle-jack.
Jar-opener. R. A Kiefer. No. 1,399,349; Dec. 6.
Joint: *See*—
Rail-joint.
Juices, containing inuline and laevulose, Purifying. A. Daniel. No. 1,399,544; Dec. 6.
Kiln and drier, Cylindrical. G. McCrae. No. 1,399,507; Dec. 6.
Kilns, Firing. F. Munhallon. No. 1,399,070; Dec. 6.
Knee-pad, Pneumatic. J. T. Shelton. No. 1,399,584; Dec. 6.
Knife and saw, Combination. A. Hall. No. 1,399,476; Dec. 6.
Knitted goods and winding the yarn, Machine for unraveling. M. F. Robischon. No. 1,399,657; Dec. 6.
Knitting-machines, Arm for. E. H. Stines and W. C. Potter. No. 1,399,278; Dec. 6.
Knitting-machines, Take-up mechanism for. K. Howie. No. 1,399,121; Dec. 6.
Lambs' tails, Machine for docking. R. C. Harvey. No. 1,399,479; Dec. 6.
Lamp, Gage-. N. A. Levitan. No. 1,399,628; Dec. 6.
Lamp globe or shade. R. H. Beeman. No. 1,399,042; Dec. 6.
Lamp, Incandescent electric. J. A. Heany. No. 1,399,722; Dec. 6.
Lamp shades or domes, Curtain for. H. A. F. Kurre. No. 1,399,564; Dec. 6.
Lamps, Reflector for head-. C. N. Weems. No. 1,398,987; Dec. 6.
Lantern, Optical-projection. J. Grans. No. 1,399,111; Dec. 6.
Lathe. H. S. Eades. No. 1,399,199; Dec. 6.
Lawn-mower attachment. W. J. Ball. No. 1,399,601; Dec. 6.
Leaf-holder. A. W. Wadewitz. No. 1,399,675; Dec. 6.
Lens-grinder. A. Pellow. No. 1,399,400; Dec. 6.
Letters, Machine for postmarking and canceling. W. H. Bowes. No. 1,399,288; Dec. 6.
Level-indicating apparatus. H. H. Frey. No. 1,399,205; Dec. 6.
Lifting-jack. W. L. Day. No. 1,399,693; Dec. 6.
Light: *See*—
Flashlight.
Light-deflector. J. A. Loveland & M. L. Fisher. No. 1,399,855; Dec. 6.
Light-fixture. A. E. Wiedenhoeft. No. 1,399,232; Dec. 6.
Lighting-fixture. C. R. Leimecke. No. 1,399,062; Dec. 6.
Lighting system and means for controlling same. W. K. McIver. No. 1,399,505; Dec. 6.
Link, Interlocking. J. Oppman. No. 1,399,646; Dec. 6.
Liquid-agitating mechanism. M. Donauer. No. 1,399,699; Dec. 6.
Liquid-agitating mechanism. N. D. Nielsen. No. 1,399,644; Dec. 6.
Liquid-containing can. W. J. Towle. No. 1,399,163; Dec. 6.
Liquid fuel, Means for atomizing and igniting. A. Doble. No. 1,399,010; Dec. 6.
Lithographic metal sheets, Apparatus for drying. T. L. Taliaferro. No. 1,399,415; Dec. 6.
Lithopone, Manufacturing. C. R. Kusell. No. 1,399,500; Dec. 6.
Lock: *See*—
Automatic grease-plug lock. Safety switch-lock.
Cylinder-lock. Vehicle reverse-lock.
Motor-vehicle lock. Window-lock.
Lock. C. Liberman. No. 1,399,568; Dec. 6.
Lock. S. Segal. No. 1,399,158; Dec. 6.
Lock-set. H. Blye. No. 1,399,533; Dec. 6.
Locomotives, Steam-supply means for cylinders of railway. S. H. Lewis. No. 1,399,181; Dec. 6.
Looms, &c., Harness for. E. F. Hathaway. No. 1,399,298; Dec. 6.
Lubricator: *See*—
Automatic force-feed lubricator.
Luggage-carrier. G. A. Roth. No. 1,399,154; Dec. 6.
Massage device, Facial-. H. E. Gray. No. 1,399,840; Dec. 6.
Match-case. C. Rothen. No. 1,399,322; Dec. 6.
Matches, Machine for making card-. H. A. Rudd. No. 1,399,081; Dec. 6.
Material to be dumped, &c., Removing. G. Schwabach. No. 1,399,663; Dec. 6.
Meat-smoking apparatus. A. M. Miller. No. 1,399,362; Dec. 6.
Merchant-bars, Converting scrap metal into. J. T. Wenyon. No. 1,399,679; Dec. 6.
Mesh-bag. F. W. Rettenmeyer. No. 1,399,576; Dec. 6.
Metal tool. E. C. Lippa. No. 1,399,210; Dec. 6.
Metals, Heat treatment of. A. E. Bellis. No. 1,399,044; Dec. 6.
Mine-props, &c., Device for withdrawing. W. Temple. No. 1,399,279; Dec. 6.
Mining-machine. C. E. Davis. No. 1,399,380; Dec. 6.
Mirrorscope. C. E. Calkin. No. 1,399,471; Dec. 6.
Mixer. G. C. Truslow. No. 1,399,604; Dec. 6.
Moisture-tester. C. P. Daroo. No. 1,399,[illegible]; Dec. 6.
Mop-cleaning device. A. B. Grymes. No. 1,399,841; Dec. 6.
Motor: *See*—
Fluid-operated motor. Water-motor.
Phonograph-motor.
Mower. J. G. Fahr. No. 1,399,548; Dec. 6.
Music-rolls, &c., Container for. C. S. Burton. No. 1,399,541; Dec. 6.
Music-sheet guide. S. E. Harcourt. No. 1,399,114; Dec. 6.
Nails, Device for use with. G. Muller. No. 1,399,506; Dec. 6.
Necktie-clasp. F. E. Williams and O. S. Barnum. No. 1,399,223; Dec. 6.
Nests, Hen's. J. C. Groves. No. 1,399,414; Dec. 6.
Nitrocellulose compositions, Making colored. L. J. Maloss. No. 1,399,857; Dec. 6.
No-voltage release switch. H. F. Krantz. No. 1,399,496; Dec. 6.
Non-slip driving means. R. O. Vanderpoel. No. 1,399,329; Dec. 6.
Net, Non-removable. A. Casali. No. 1,399,191; Dec. 6.
Oil-burner. J. F. Kraus. No. 1,399,624; Dec. 6.
Oil-burner. H. S. Lamb. No. 1,399,565; Dec. 6.
Oil-burner. A. A. Lindley. No. 1,399,213; Dec. 6.
Oil-burner. H. Westner. No. 1,399,[illegible]; Dec. 6.
Oil-burner, Atomizing. T. J. Cunerty. No. 1,399,606; Dec. 6.
Oil-burning system. W. H. Winslow. No. 1,399,254; Dec. 6.
Oil-cakes, Machine for forming. R. A. Trace. No. 1,399,199; Dec. 6.
Oil-switch. G. A. Burnham. No. 1,399,480; Dec. 6.
Operating-table. G. C. Taplin. No. 1,399,034; Dec. 6.
Ore concentration. E. W. Wilkinson. Nos. 1,398,989–90; Dec. 6.
Ore-treating furnace. F. J. Bowman. No. 1,399,046; Dec. 6.
Ores, Extraction of metals from their. E. M. Hamilton. No. 1,399,534; Dec. 6.
Ores, Extraction of vanadium, uranium, and radium. W. F. Bleecker. No. 1,399,246; Dec. 6.
Ornamental surfaces, Producing. M. E. Gates. No. 1,399,425; Dec. 6.
Oven. O. C. Nuubson. No. 1,399,149; Dec. 6.
Packaging and sealing perishable articles and the product thereof. J. Nusbaum. No. 1,399,270; Dec. 6.
Pad: *See*—
Pneumatic knee-pad
Paper, Apparatus for applying adhesive to wrapping-. W. J. Elder and C. N. Morehouse. No. 1,399,051; Dec. 6.
Paper-stock-treating machine. M. C. J. Billingham. No. 1,399,184; Dec. 6.
Paraffining-machine. H. A. Sévigné. No. 1,399,160; Dec. 6.
Pedal, Accelerator-. W. C. Gewalt. No. 1,399,054; Dec. 6.
Pelorus. W. O. White. No. 1,399,330; Dec. 6.
Pencil. E. L. and L. A. Anderson. No. 1,398,955; Dec. 6.
Phenols, Producing. G. B. Bradshaw. No. 1,398,998; Dec. 6.
Phonograph-brake. A. F. Bruhy. No. 1,399,187; Dec. 6.
Phonograph-cabinet and table, Combined. A. Will. No. 1,399,097; Dec. 6.
Phonograph-motor. E. J. Postal. No. 1,399,517; Dec. 6.
Phonograph-stop. E. J. Tomlinson. No. 1,399,327; Dec. 6.
Phonographs, Automatic stop for. A. F. Bruhy. No. 1,399,186; Dec. 6.
Photographic-film printing apparatus. E. W. Nelson. No. 1,399,396; Dec. 6.
Photographic mask. C. H. Cady. No. 1,399,189; Dec. 6.
Pianos, Tune-selector for automatic. R. I. Wilcox. No. 1,398,988; Dec. 6.
Picture apparatus, Moving-. F. H. Grabhorn. No. 1,399,294; Dec. 6.
Picture machine, Motion-. P. J. McCullough. No. 1,399,504; Dec. 6.
Piling-machine. F. Summers. No. 1,399,523; Dec. 6.
Pilot-light-burner control. E. Rector. No. 1,399,656; Dec. 6.
Pin: *See*—
Clothespin.
Pipe or conduit hanger. J. F. Barry. No. 1,399,456; Dec. 6.
Pipes, Apparatus for making multiple beadings on. F. Heck. No. 1,399,388; Dec. 6.
Pistol, Self-loading. H. Ortgies. No. 1,399,224; Dec. 6.
Piston-packing disks. J. W. Kelly. No. 1,399,060; Dec. 6.
Piston-ring. T. G. Saxton. No. 1,399,581; Dec. 6.
Plaiting-machine. J. Whyte. No. 1,399,581; Dec. 6.
Planters, Marker for corn-. S. Watson. No. 1,399,677; Dec. 6.
Plaster-board, Drier for. D. E. Roberts. No. 1,399,276; Dec. 6.
Platen printing-press. O. Johne. No. 1,399,451; Dec. 6.
Plow, Tractor-. J. Hist. No. 1,399,301; Dec. 6.
Pneumatic pick-up. H. S. Hornbeck. No. 1,399,482; Dec. 6
Pneumatic transmission. J. W. Struck. No. 1,399,588; Dec. 6.
Post: *See*—
Fence-post.

Potassium-bearing silicates, Treating. E. Levitt. No. 1,399,216; Dec. 6.
Poultry-grit. J. F. Gallagher. No. 1,399,206; Dec. 6.
Power-interlocking systems, Detector-locking for. W. K. Howe. No. 1,399,257; Dec. 6.
Power-operated switch-machines, Electric lock for. W. K. Howe. No. 1,399,258; Dec. 6.
Power-table. E. B. Allen. No. 1,399,284; Dec. 6.
Precipitators, Means for cleaning the electrodes in electrical fume-. A. Petersen. No. 1,399,441; Dec. 6.
Press: *See*—
Block-press. Platen printing-press.
Food-press. Pocket seal-press.
Printing-press.
Presses, Safety device for. H. A. Davenport. No. 1,399,049; Dec. 6.
Pressure-gage. H Hastings. No. 1,399,117; Dec. 6.
Pressure-regulator. A. E. Fleener. No. 1,399,013; Dec. 6.
Priming-cup. C. G. Anderson, Jr. No. 1,399,596; Dec. 6.
Priming device. C. A. Johnson and J. P. Carruthers. No. 1,399,625; Dec. 6.
Printing-frame. C. E. Jackson. No. 1,399,122; Dec. 6.
Printing plate mounting. W. F. Brügmann. No. 1,399,047; Dec. 6.
Printing-press. C. A. Meisel. No. 1,399,360; Dec. 6.
Printing-press rage. E. A. Corby. No. 1,399,201; Dec. 6.
Printing presses, Delivery attachment for. H. F. Hampshire and F. B. Cranmer. No. 1,399,477; Dec. 6.
Products disruptive conduction, Apparatus for treating. F. S. Smith. No. 1,399,162; Dec. 6.
Projection-screen. I. Lazarus. No. 1,399,566; Dec. 6.
Propeller-shafts, Stuffing-box for. C. W. Cedervall. No. 1,399,421; Dec. 6.
Puller: *See*—
Stump-puller.
Pulverizing-mill. E. F. McCool. No. 1,399,067; Dec. 6.
Pump. G. A. Humason and J. A. Burtschel. No. 1,398,967; Dec. 6.
Pump. F. Roberts. No. 1,399,402; Dec. 6.
Pump. R. H. Stoker. No. 1,399,669; Dec. 6.
Pump, Grease-. J. N. Bagley and W. M. Dutton. No. 1,399,240; Dec. 6.
Pyrometer-switch. M. T. Lothrop. No. 1,399,184; Dec. 6.
Quinin-silver-phosphate composition and making same. R. L. Crowe. No. 1,399,604; Dec. 6.
Radiator. R. Nanjoka. No. 1,399,146; Dec. 6.
Radiator. F. A. Nereu. No. 1,399,571; Dec. 6.
Radiator-cover. H. G. Lapsley. No. 1,399,435; Dec. 6.
Radiodynamic control System of. J. H. Hammond, Jr. No. 1,399,254; Dec. 6.
Radiodynamic receiving systems, Means for changing the intensity of signals in. E. L. Chaffee. No. 1,399,251; Dec. 6.
Rail-chair. C. Pascal. No. 1,399,572; Dec. 6.
Rail-fastening means. E. I. Dodds. No. 1,399,011; Dec. 6.
Rail-joint. A. J. Neafie. No. 1,399,269; Dec. 6.
Railway-crossing. J. F. Brady. No. 1,399,289; Dec. 6.
Railway, Pleasure-. H. E. Riehl. No. 1,399,577; Dec. 6.
Railway-rail support. P. Jarnowski. No. 1,399,123; Dec. 6.
Railway safety appliance. E. E. Boers. No. 1,399,500; Dec. 6.
Railways, Signaling system for single-track. N. D. Preston. No. 1,399,725; Dec. 6.
Rake: *See*—
Side-delivery rake.
Rat-trap. A. Livesey. No. 1,399,630; Dec. 6.
Razors, Device for sharpening the blades for safety-. W. Barsch. No. 1,399,241; Dec. 6.
Reactions, Control of. P. E. Edelman. No. 1,399,200; Dec. 6.
Reamer-head. W. L. Miller. No. 1,399,142; Dec. 6.
Reaming-machine. F. O. Pahmeyer and S. B. Clay. No. 1,399,073; Dec. 6.
Receptacle, Molded. D. D. Wessels. No. 1,399,174; Dec. 6.
Reducing bodies. W. A. Leddell. No. 1,398,970; Dec. 6.
Reed and beating-reed organ, Beating-. G. Cloetens. No. 1,399,462; Dec. 6.
Reel: *See*—
Fishing-reel.
Refrigerator construction. H. J. Gwyer. No. 1,398,964; Dec. 6.
Register, &c. C. H. Veeder. No. 1,399,417; Dec. 6.
Regulator: *See*—
Draft-regulator. Pressure-regulator.
Feed-water regulator.
Restaurant-fixture. P. D. Jones. No. 1,399,125; Dec. 6.
Reversing switch. B. Stechbart. No. 1,399,411; Dec. 6.
Rim construction, Demountable-. E. K. Baker. No. 1,399,041; Dec. 6.
Rim contractor and expander. J. Bjornlie. No. 1,399,185; Dec. 6.
Rims, Expanding device for wheel-. J. F. England. No. 1,399,012; Dec. 6.
Ring: *See*—
Spring-ring. Piston-ring.
Road-building machine. S. F. Austin. No. 1,399,681; Dec. 6.
Rocking-chair. A. Rudnicke. No. 1,399,155; Dec. 6.
Rod: *See*—
Curtain-rod.
Rod and crank-shaft, Connecting-. J. Cawley and F. Hills. No. 1,399,713; Dec. 6.
Rope-clamp. J. Oppman. No. 1,399,647; Dec. 6.
Rope-grip. J. Z. Benedict. No. 1,399,182; Dec. 6.
Roving-frames and other like textile apparatus, Filer for. L. W. Campbell. No. 1,399,332; Dec. 6.
Safe. M. Mosler and C. Bartels. No. 1,399,512; Dec. 6.
Sash-fastener. G. H. Cozens. No. 1,399,105; Dec. 6.
Saw-blades, Adjustable frame for. N. D. Olson. No. 1,399,316; Dec. 6.
Sawing machine, Tree-. S. Radimak. No. 1,399,274; Dec. 6.
Scow, Dump-. H. V. Butt. No. 1,399,048; Dec. 6.
Scraper. L. P. Green. No. 1,399,382; Dec. 6.
Scraper, Plane-. C. J. and C. A. Lofdahl. No. 1,399,631; Dec. 6.
Screen: *See*—
Grisaly-screen. Projection-screen.
Propulsion-screen. Revolving screen.
Screen, Propulsion-. R. S. Benson. No. 1,398,997; Dec. 6.
Screen, Revolving. E. J. Pope. No. 1,399,653; Dec. 6.
Screwdriver with gripping arrangement for holding the screws. J. Lundmark. No. 1,399,635; Dec. 6.
Screws, Attachment for temper-. C. A. Butler. No. 1,399,003; Dec. 6.
Seal-press, Pocket. H. Hellberg. No. 1,399,620; Dec. 6.
Sectional boiler. H. G. Thayer and S. T. McLellan. No. 1,399,035; Dec. 6.
Seed-planter. J. Haines. No. 1,399,475; Dec. 6.
Service establishment and customer's waiting room therefor. B. W. Klein. No. 1,399,390; Dec. 6.
Sewage clarification, Settling-tank for. K. Imhoff. No. 1,399,562; Dec. 6.
Sewer-structure invert section. J. H. Zinn. No. 1,399,454; Dec. 6.
Sewing-machine. M. M. Schrago. No. 1,399,086; Dec. 6.
Sewing machine, Button-. W. A. Smith. No. 1,399,527; Dec. 6.
Sewing-machines, Fabric-guiding device for. W. W. Scott. No. 1,399,406; Dec. 6.
Shaft-furnace. C. Giesecke. No. 1,399,297; Dec. 6.
Shears. T. C. Stone. No. 1,399,668; Dec. 6.
Sheet-folding machine. A. M. MacFarland. (Reissue.) No. 15,242; Dec. 6.
Sheet-metal fastener. C. J. Ocampo. No. 1,399,315; Dec. 6.
Sheet-registering device. E. R. Linebaugh. No. 1,399,064; Dec. 6.
Shield. H. Simmons. No. 1,399,446; Dec. 6.
Shirt. A. Holste. No. 1,399,256; Dec. 6.
Shirt with removable bosom. A. Holste. No. 1,399,255; Dec. 6.
Shock-absorber for reversing mechanism. F. W. Wappat. No. 1,399,173; Dec. 6.
Shoe. A. E. Little. No. 1,399,436; Dec. 6.
Shoe, Buckstay-. F. E. Kling. No. 1,399,127; Dec. 6.
Shoe-soler, Channeling. G. M. Pettengill. No. 1,399,024; Dec. 6.
Shoes, Antislipping attachment for. R. O. Bardon. No. 1,399,682; Dec. 6.
Shoes, Spring insoles for. S. R. Rogers. No. 1,399,153; Dec. 6.
Side-delivery rake. J. Dain. No. 1,399,197; Dec. 6.
Signal: *See*—
Auto-signal. Vehicle-signal.
Automobile-signal.
Silo. T. F. Ellis. No. 1,399,546; Dec. 6.
Silo-truing device. J. A. Drew. No. 1,399,717; Dec. 6.
Skein forming and boxing machine. C. H. Gegauff. No. 1,399,109; Dec. 6.
Slab-molding machine, Plaster-. F. M. Johnson. No. 1,399,485; Dec. 6.
Sleigh, Motor-. L. G. A. F. Jaekel. No. 1,399,624; Dec. 6.
Slip printing and registering machine. H. A. Martin. No. 1,399,891; Dec. 6.
Sludge, Treating. K. Imhoff and H. Blunk. No. 1,399,561; Dec. 6.
Soda-fountain faucet. C. U. Senter. No. 1,399,367; Dec. 6.
Sound-box. L. L. Hughes. No. 1,399,302; Dec. 6.
Sound-box. H. K. Sandell. No. 1,399,404; Dec. 6.
Sound-boxes, Attachment for. F. L. Capps. No. 1,399,003; Dec. 6.
Sound-reproducing apparatus. H. K. Sandell. No. 1,399,403; Dec. 6.
Sound-vibration source, Amplifying system for a complex. L. M. Hart. No. 1,398,965; Dec. 6.
Spark-gap. G. B. Crouse. No. 1,399,005; Dec. 6.
Spark-plug. G. R. Blodgett, M. E. Cheney, and R. T. Hurley. No. 1,399,375; Dec. 6.
Spark-plugs, Device for cleaning. A. V. Pellet. No. 1,399,225; Dec. 6.
Spinning apparatus, Artificial-silk-. J. Clayton. No. 1,399,690; Dec. 6.
Spinning-ring carrier. T. Whitehead. No. 1,399,418; Dec. 6.
Spotlight. E. H. Howard. No. 1,399,120; Dec. 6.
Spreading device. I. Evans. No. 1,399,331; Dec. 6.
Spring: *See*—
Bed-spring. Door-spring.
Spring-ring. C. A. Goosy. No. 1,399,207; Dec. 6.
Spring structure. W. R. Smith. Nos. 1,399,028–30; Dec. 6.
Spring-wheel. D. J. McCluskey. No. 1,399,220; Dec. 6.
Springs, Lubricating and protecting jacket for. E. E. Bouchard. No. 1,399,248; Dec. 6.
Springs, Means for lubricating leaf-. J. I. Richey. No. 1,399,152; Dec. 6.

Squares, Attachment for. J. D. Dix. No. 1,399,466; Dec. 6.
Stacker. O. W. Bennett. No. 1,399,342; Dec. 6.
Stall attachment. M. J. Sedlets. No. 1,399,458; Dec. 6.
Stand: *See*—
Collapsible ironing-board stand.
Starting-switch, Safety. H. F. Krantz. No. 1,399,488; Dec. 6.
Staybolt structure. E. I. Dodds. Nos. 1,399,607–8; Dec. 6.
Staybolt structure. B. M. D. Stafford and E. I. Dodds. No. 1,399,633; Dec. 6.
Steam-producer. W. S. Warnock. No. 1,398,986; Dec. 6.
Steam-shovels, Tooth for. R. R. Downie. No. 1,399,527; Dec. 6.
Steel tool, Hardened-. W. B. Sullivan. No. 1,399,414; Dec. 6.
Stencil-printing apparatus. H. S. Trudden. No. 1,399,599; Dec. 6.
Sterilizing device. B. R. Ulrich. No. 1,398,983; Dec. 6.
Stocking. A. B. Heinke. No. 1,399,290; Dec. 6.
Stoker, Chain-grate. F. C. Sellens. No. 1,398,977; Dec. 6.
Stool. D. R. Collier. No. 1,399,465; Dec. 6.
Stove, Cooking. J. Eide. No. 1,399,704; Dec. 6.
Stove, Laundry. C. P. Melvin. No. 1,399,477; Dec. 6.
Stoves, &c., Fire-block for. P. Moquist. No. 1,399,511; Dec. 6.
Stovepipe and chimney clamp. J. C. Teller. No. 1,399,693; Dec. 6.
Stovepipe thimble attachment. H. Heffner. No. 1,399,619; Dec. 6.
Strap-fastening, Adjustable. F. Hirsh. No. 1,398,968; Dec. 6.
Stump-puller. W. W. Bissell. No. 1,399,244; Dec. 6.
Stump-pulling apparatus. S. Thoresen. No. 1,399,662; Dec. 6.
Submarine rescue craft. A. J. Collins. No. 1,399,196; Dec. 6.
Sugar, Systematically sulfurating the juices obtained during the manufacture of. M. v. Wierusz-Kowalski. No. 1,399,533; Dec. 6.
Sulfur, Distillation of. H. S. Davis and W. A. Hamor. No. 1,398,960; Dec. 6.
Sulfuric acid without chambers and towers, Production of. T. Schmiedel. No. 1,399,526; Dec. 6.
Surgical appliance. S. Ferragamo. No. 1,399,606; Dec. 6.
Suspenders, Concealed. A. H. Graves. No. 1,398,962; Dec. 6.
Switch: *See*—
Dimmer-switch. Reversing-switch.
Oil-switch. Safety starting-switch.
Pyrometer-switch.
Switch-blade and process. H. Krantz. No. 1,399,491; Dec. 6.
Switch-blade, Double. H. Krantz. No. 1,399,492; Dec. 6.
Switch, Combination lighting and ignition. W. Keasling. No. 1,399,017; Dec. 6.
Switch-lock, Safety. A. H. MacMinn and W. H. Graham. No. 1,399,221; Dec. 6.
Switch mechanism. H. F. Krantz. No. 1,399,493; Dec. 6.
Switch mechanism. H. F. Krantz. No. 1,399,495; Dec. 6.
Switch mechanism. H. F. Krantz. No. 1,399,496; Dec. 6.
Switch mechanism, Electrically-controlled. W. G. Hartwig. No. 1,399,116; Dec. 6.
Switch mechanism, Safety. H. F. Krantz. No. 1,399,498; Dec. 6.
Switch mechanism, Supporting bracket for. H. F. Krantz. No. 1,399,497; Dec. 6.
Switch-operating device, Safety. H. F. Krantz. No. 1,399,494; Dec. 6.
Switch-operating mechanism. W. M. Brown. No. 1,399,540; Dec. 6.
Swivel. F. G. Gruen. No. 1,399,112; Dec. 6.
Synthetic anesthetic and making same. N. Nagai. No. 1,399,312; Dec. 6.
Synthetically compounded drug product and producing the same. W. N. Nagai. No. 1,399,144; Dec. 6.
Table: *See*—
Chiropractic table. Operating-table.
Efficiency-table. Power-table.
Table-tilting mechanism. C. E. Thompson. No. 1,399,661; Dec. 6.
Table-top protector. O. Winter. No. 1,399,371; Dec. 6.
Talking-machine, Automatic. R. W. Godfrey. No. 1,399,110; Dec. 6.
Talking-machine records, Brush for. J. F. and W. Borst. No. 1,399,714; Dec. 6.
Talking-machines, Driving mechanism for. T. Ahearn. No. 1,399,239; Dec. 6.
Talking-machines, Turntable for. A. Vassell. No. 1,399,171; Dec. 6.
Tamper and like impact tool. C. Jackson. No. 1,399,387; Dec. 6.
Tanks, Closure-plug for. P. Henry. No. 1,399,345; Dec. 6.
Tanning materials, Making. W. Moeller. No. 1,399,340; Dec. 6.
Tape, Machine for applying. E. S. Hoyt. No. 1,399,715; Dec. 6.
Teapot-spout ladle. B. H. Whiting. No. 1,399,532; Dec. 6.
Telegraphic receiving instrument, Recording. J. A. Hebel. No. 1,399,429; Dec. 6.
Telephone apparatus. F. P. Manebendel. No. 1,399,398; Dec. 6.
Telephone-exchange system. F. Lamberger and W. Pinell. No. 1,399,[illegible]; Dec. 6.
Telephone-muffler. L. S. Ackley. No. 1,399,[illegible]; Dec. 6.
Tension device. G. S. Penland. No. 1,399,444; Dec. 6.
Test-indicator. C. H. Nicholson. No. 1,399,514; Dec. 6.
Therapeutic apparatus. M. E. Waggoner. No. 1,399,516; Dec. 6.
Thread and yarn friction guide. J. Rodger. No. 1,399,693; Dec. 6.
Threading-machines, Hand cutter and feeder for. P. Oda. No. 1,399,271; Dec. 6.
Tie-clip. C. Kenney. No. 1,399,579; Dec. 6.
Timer. G. L. Pollock. No. 1,399,300; Dec. 6.
Tin-opener. G. Kranht. No. 1,399,061; Dec. 6.
Tire, Armored pneumatic. G. M. Stivers. No. 1,399,234; Dec. 6.
Tire-building machine (stationary). W. H. Hermann. No. 1,399,118; Dec. 6.
Tire-casing. G. Renos. No. 1,399,975; Dec. 6.
Tire-casing, Core for. F. L. Bailey and J. H. La Grant. No. 1,399,180; Dec. 6.
Tire-inflation indicator. C. W. Zimmerman. No. 1,399,992; Dec. 6.
Tire, Pneumatic. L. A. Hill. No. 1,399,556; Dec. 6.
Tire protector. T. W. Hamill. No. 1,399,583; Dec. 6.
Tire, Resilient. J. F. Stranahan. No. 1,399,670; Dec. 6.
Tires, Apparatus to use for making cushion. H. M. Lambert. No. 1,399,128; Dec. 6.
Tires, Pressure-gage for pneumatic. F. Ogle. No. 1,399,742; Dec. 6.
Tires, Segmental casing for. R. N. Ink. No. 1,399,430; Dec. 6.
Toboggan, Water-. H. Cuculiu. No. 1,399,469; Dec. 6.
Toilet articles, Holder for. J. Molnar. No. 1,399,305; Dec. 6.
Tongued-and-grooved-panels, Channel structure for. J. Ledwinka. No. 1,399,671; Dec. 6.
Tool, Combination. J. M. Bardera. No. 1,398,966; Dec. 6.
Tool, Combination-. S. Shapiro. No. 1,399,665; Dec. 6.
Tool-driving machine. H. C. Smith. No. 1,398,978; Dec. 6.
Tool-handle-holding means. A. S. Vaughan. No. 1,399,172; Dec. 6.
Tool-wrench. H. T. Smith. No. 1,399,649; Dec. 6.
Tower, Cooling-. F. Uhde. No. 1,399,057; Dec. 6.
Toy. J. Z. Bayliss. No. 1,399,537; Dec. 6.
Toy automobile. C. J. Hinds. No. 1,399,687; Dec. 6.
Toy train, Indestructible. R. E. Bloomfield. No. 1,399,347; Dec. 6.
Toy vehicle. J. H. Hyde. No. 1,399,212; Dec. 6.
Track and hanger. J. L. Guignard. No. 1,399,616; Dec. 6.
Track-brake system, Control of electromagnetic. G. L. Mayfarth. No. 1,399,361; Dec. 6.
Track, Vehicle road-. J. R. Bolknap. No. 1,399,043; Dec. 6.
Tractor. H. Meyer. No. 1,399,657; Dec. 6.
Tractor. E. C. Myers. No. 1,399,670; Dec. 6.
Tractor safety device. A. Guignard and F. Rosiger. No. 1,399,552; Dec. 6.
Tractor, Track-laying. R. H. White. No. 1,399,370; Dec. 6.
Tractors and other vehicles, Propelling-wheel for. H. G. Stone. No. 1,399,413; Dec. 6.
Tractors, Power-delivering attachment for automobile-. L. Haubert. No. 1,399,344; Dec. 6.
Trailer steering and draft gears, Lock for. O. E. Byron. No. 1,399,183; Dec. 6.
Train control, Automatic. P. J. Simmen. No. 1,399,027; Dec. 6.
Train-controlling devices for preventing collisions, Automatic. A. L. Bower. No. 1,399,100; Dec. 6.
Tramway-track, Crossbar for. A. Devrin. No. 1,399,050; Dec. 6.
Transmission mechanism. R. B. Perkins. No. 1,399,578; Dec. 6.
Trap: *See*—
Rat trap.
Traps, Luminous lure for animal-. W. Quarltine. No. 1,399,518; Dec. 6.
Treating apparatus. C. E. Burke and G. Earnhart. No. 1,398,102; Dec. 6.
Trench-mortar. A. G. Bergman. No. 1,399,243; Dec. 6.
Truck. W. O. Shadbolt. No. 1,399,585; Dec. 6.
Truck, Industrial. C. E. Cochran. No. 1,399,543; Dec. 6.
Tube holder and ejector. W. J. Rothrock. No. 1,399,580; Dec. 6.
Tube, Inner. H. C. Privett. No. 1,399,575; Dec. 6.
Tube-rolling mill. J. Reitmann. No. 1,399,491; Dec. 6.
Tubes of felted fibrous material, Forming. W. R. Seigle. No. 1,399,087; Dec. 6.
Tungstates, Obtaining pure. J. B. Ekeley and W. B. Stoddard. No. 1,399,705; Dec. 6.
Tungstic oxid, Producing. W. F. Bleecker. No. 1,399,245; Dec. 6.
Turbine-machine. V. Kaplan. No. 1,399,059; Dec. 6.
Turbine, Steam-. C. V. Kerr. No. 1,399,[illegible]16; Dec. 6.
Tympan-gage, Automatic. J. S. Merkins. No. 1,399,141; Dec. 6.
Typewriter-levers, &c., Mechanism for automatically operating. J. H. Billings. No. 1,399,365; Dec. 6.
Typewriting-machine. W. F. Helmond. Nos. 1,399,486–1; Dec. 6.
Umbrella-support. L. B. Beavers. No. 1,399,683; Dec. 6.
Vacuo-thermic body-treatment appliance. J. F. Webb, Sr. No. 1,399,095; Dec. 6.
Vacuum-brake. H. W. Barrows. No. 1,399,099; Dec. 6.
Valve, Automatic air-. E. B. Case. No. 1,399,004; Dec. 6.
Valve, Boiler check-shut-off. M. A. Enger. No. 1,399,470; Dec. 6.
Valve, Check-. M. Belcher. No. 1,399,684; Dec. 6.
Valve, Cut-out. E. Ryder. No. 1,398,976; Dec. 6.
Valve, Gasolene-. G. C. Bredin. No. 1,398,999; Dec. 6.
Valve, Irrigation-. C. J. Kurtz. No. 1,399,434; Dec. 6.
Valve, Relief-. H. W. Justus. No. 1,399,710; Dec. 6.
Varnish, Fireproof. C. L. Saunders, G. C. Stanley, and C. W. Bennett. No. 1,399,026; Dec. 6.
Vegetables, fruits, &c., Preserving. A. Faitelowitz. No. 1,399,471; Dec. 6.
Vehicle. J. C. Jones. No. 1,399,848; Dec. 6.
Vehicle-bumpers, Support for. J. R. Reyburn. No. 1,399,520; Dec. 6.
Vehicle-coupling. A. B. Cadman. No. 1,399,250; Dec. 6.
Vehicle drive mechanism. J. Krohn. No. 1,399,019; Dec. 6.
Vehicle-hoist. J. C. Boutte. No. 1,398,959; Dec. 6.
Vehicle-jack. F. P. Connors. No. 1,399,691; Dec. 6.
Vehicle lock, Motor-. B. Owen. No. 1,399,514; Dec. 6.
Vehicle, Motor-. H. S. Currier. No. 1,399,379; Dec. 6.
Vehicle, Motor-. C. M. Manly. (Reissue.) No. 15,243; Dec. 6.
Vehicle, Motor-. J. G. Vincent. No. 1,399,003; Dec. 6.
Vehicle-reverse lock. D. Mizruchy. No. 1,399,509; Dec. 6.
Vehicle-signal. J. G. Frieman. No. 1,399,339; Dec. 6.
Vehicle-wheel. G. B. Bell. No. 1,399,331; Dec. 6.
Vehicle wheels, Crane for handling motor-. W. E. Lee. No. 1,399,351; Dec. 6.
Vehicles, Endless-track mechanism for. A. B. Webb. No. 1,399,369; Dec. 6.
Vehicles, Lamp-supporting means for motor-. G. E. Goddard. No. 1,399,055; Dec. 6.
Velocipede, Sledge-. P. Madjaroglou and A. Paulick. No. 1,399,138; Dec. 6.
Vending-machines, Delivery mechanism for. G. H. Armitage. No. 1,398,994; Dec. 6.
Vending-machines, Sheet-delivering mechanism for. G. L. Huff. No. 1,399,385; Dec. 6.
Ventilator: *See*—
Window-ventilator.
Ventilator. O. Kerwien. No. 1,399,126; Dec. 6.
Viscose, Precipitating F. Steimmig. No. 1,399,587; Dec. 6.
Vise. J. R. Long. No. 1,399,632; Dec. 6.
Wall construction. I. F. Baudabaugh. No. 1,399,320; Dec. 6.
Wall construction or wall. J. H. Magee. No. 1,399,222; Dec. 6.
Wall-plug. S. Sievers. No. 1,399,407; Dec. 6.
Washing-machine. H. H. Troxel. No. 1,399,451; Dec. 6.
Water-circulator. A. Hahn. No. 1,399,617; Dec. 6.
Water-fall, Imitation. K. W. H. Schroeder. No. 1,399,662; Dec. 6.
Water-heater. A. N. Clough. No. 1,399,192; Dec. 6.
Water-heater, Electric. S. I. Phelps. No. 1,399,515; Dec. 6.
Water-heaters, &c., Coupling device for. C. P. Wadley. No. 1,398,985; Dec. 6.
Water-motor. O. L. Howe. No. 1,399,558; Dec. 6.
Waterproofing composition. O. H. Brauser and M. H. Oakes. No. 1,399,724; Dec. 6.
Weather-board. M. K. Armstrong. No. 1,399,455; Dec. 6.
Weaving-heald and manufacturing same. A. Zipfel. No. 1,399,237; Dec. 6.
Weed burner and eradicator. W. S. Servoss. No. 1,399,229; Dec. 6.
Weed-killer. J. R. Stewart. No. 1,399,529; Dec. 6.
Weighing-machine. K. Jukes. No. 1,399,433; Dec. 6.
Well-tool, Self-bailing. L. Garrison. No. 1,399,108; Dec. 6.
Wheel: *See*—
Polishing-wheel. Vehicle-wheel.
Spring-wheel.
Wheel. F. S. Stafford. No. 1,399,410; Dec. 6.
Wheel-alinement gage. D. L. Rowe. No. 1,399,228; Dec. 6.
Wheel, Polishing-. D. F. McGovern. (Reissue.) No. 15,245; Dec. 6.
Winding and unwinding apparatus. W. P. Voth. No. 1,398,984; Dec. 6.
Windmill. W. H. Winslett. No. 1,399,282; Dec. 6.
Window. A. P. Schoellerman. No. 1,399,323; Dec. 6.
Window-fastener. F. T. Schneider. No. 1,399,277; Dec. 6.
Window-lock. I. Wiernikowski. No. 1,399,177; Dec. 6.
Window-ventilator. N. B. Nielsen and E. G. Brant. No. 1,399,135; Dec. 6.
Windshield-cleaner. H. K. Frankowski and A. Hoffman. No. 1,399,107; Dec. 6.
Woodworking-machines, Pressure-guard for. J. D. McMichael. No. 1,399,137; Dec. 6.
Work or tool holder, Universally-adjustable. I. L. Cole. No. 1,399,194; Dec. 6.
Wrench: *See*—
Tool-wrench.
Wrench. A. D. Hullett. No. 1,399,621; Dec. 6.
Wrench. O. H. Lay. No. 1,399,265; Dec. 6.
Wrench. R. Lumsden. No. 1,399,633; Dec. 6.
Wringer. H. C. Hirschy. No. 1,399,482; Dec. 6.
Wringer. B. S. McCutchen. Nos. 1,399,303–4; Dec. 6.
Yoke. A. J. Forsythe. Nos. 1,399,204; Dec. 6.
Zinc, Extraction of. F. E. Lee, A. L. McCallum, and S. G. Blaylock. Nos. 1,399,020; Dec. 6.

ALPHABETICAL LIST OF DESIGNS.

Badge. N. L. McGhee. No. 59,905; Dec. 6.
Bonnet, Motor-. J. J. Kelly. No. 59,897; Dec. 6.
Brooms and kindred articles, Handle-cap for whisk-. A. C. Recker. No. 59,925; Dec. 6.
Coaster, Steering-post and wheel for a. L. C. Williams. No. 59,944; Dec. 6.
Charm. E. B. Riegel. No. 59,928; Dec. 6.
Clock-stand. H. J. Karp. No. 59,896; Dec. 6.
Costumer. R. C. East. No. 59,886; Dec. 6.
Coupon. R. E. Hall, Jr. No. 59,890; Dec. 6.
Cushion, Seat-. B. E. Marsh. No. 59,900; Dec. 6.
Dental bracket-arm. P. Russell. No. 59,934; Dec. 6.
Dental implements, Pedestal for. P. Russell, A. W. Schramm, and R. S. Woodward, Jr. No. 59,932; Dec. 6.
Dental stand. P. Russell, A. W. Schramm, R. S. Woodward, Jr. No. 59,933; Dec. 6.
Doll. A. Heath. No. 59,893; Dec. 6.
Electric-light fixture, Bracket for the head-ring of an. H. Shiamowitz. No. 59,937; Dec. 6.
Electric-light reflector, Face of a ceiling. J. W. Hancock. No. 59,892; Dec. 6.
Emblem, pin, badge, or similar article. G. McCaul. No. 59,903; Dec. 6.
Gas-heater. J. H. Grayson. No. 59,888; Dec. 6.
Gripping device. G. G. Scher. No. 59,936; Dec. 6.
Handle. N. A. Petry. No. 59,920; Dec. 6.
Hats, Blank for change able-shape sport-. A. G. Freeman. No. 59,887; Dec. 6.
Headlight-reflector, Blown-glass. J. T. Roffy. No. 59,930; Dec. 6.
Headlight-lens. J. T. Roffy. No. 59,931; Dec. 6.
Incense burner or candlestick. M. J. Kohlberg. No. 59,899; Dec. 6.
Lace. S. H. Page. Nos. 59,912–19; Dec. 6.
Lace. H. A. Phillips. Nos. 59,921–3; Dec. 6.
Lanterns, Frame for. P. Mohrmann. No. 59,906; Dec. 6.
Leather. C. Brandt. No. 59,884; Dec. 6.
Level. D. C. Watson. No. 59,943; Dec. 6.
Level and gage, Inspector's track. A. T. Richardson. No. 59,927; Dec. 6.
Lifting-jack. T. M. Avery. No. 59,883; Dec. 6.
Lighting-fixture, Standard for a. G. V. Strahan and F. W. Mathieu. No. 59,948; Dec. 6.
Lighting-fixtures, Holder for. F. W. Mathieu. Nos. 59,901–2; Dec. 6.
Lubricator-nipple. A. V. Gullborg. No. 59,889; Dec. 6.
Medicinal tablet, candy, chewing-gum, &c. E. J. Noble. Nos. 59,909–11; Dec. 6.
Pen and pencil, Combination fountain. S. Zdanowicz. No. 59,945; Dec. 6.
Phonograph-motors, Motor-board for. T. C. Roberts. No. 59,929; Dec. 6.
Picture-frame. Z. Sobczak. No. 59,938; Dec. 6.
Pipe-coupling. D. M. Tulloch. No. 59,942; Dec. 6.
Plant-protector. W. C. and E. C. Clark and L. Wehrheim. No. 59,885; Dec. 6.
Rubber, Laundry-. F. W. Stein. No. 59,939; Dec. 6.
Scale, Elevation-. A. T. Richardson. No. 59,926; Dec. 6.
Seat. S. P. Nissley. No. 59,907; Dec. 6.
Statuette. B. Halsey. No. 59,891; Dec. 6.
Stove. B. B. Kahn. No. 59,895; Dec. 6.
Telephone-cover and lamp-stand, Combined. H. C. and J. E. Atherley. No. 59,882; Dec. 6.
Tires, Tread-link for. R. McCormick. No. 59,904; Dec. 6.
Tourist guide-board. E. M. Quint. No. 59,924; Dec. 6.
Toy. E. N. Hickey. No. 59,894; Dec. 6.
Toy. S. P. Nissley. No. 59,908; Dec. 6.
Toy runabout. H. V. Keely. No. 59,898; Dec. 6.
Toy vehicle. F. Strauss. No. 59,941; Dec. 6.
Vehicles, Sleigh-knee for heavy. J. F. Schmidt. No. 59,935; Dec. 6.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Abrasive material, crished abrasive material, (ungraded,) and abrasive grains, Crude. White Heat Products Company. No. 149,288; Dec. 6.
Anchors and certain castings. American Steel Foundries. No. 148,982; Dec. 6.
Aprons. R. H. Macy & Co. No. 149,154; Dec. 6.
Automobile gears and shafting, transmission-gears, &c. Automotive Gear Works. No. 148,988; Dec. 6.
Automobile heater utilizing explosive-engine-exhaust heat. Miller-West Company. No. 149,167; Dec. 6.
Automobiles and lorries. Société Lyonnaise d'Industrie Mécanique and lorries. No. 149,107; Dec. 6.
Automobiles, motor-boats, aeroplanes, motorcycles. Guy Motors Ltd. No. 149,089; Dec. 6.
Baby-pants. Morris, Mann & Reilly. Nos. 149,175–6; Dec. 6.
Baby-pants, Waterproof. Rubberized Sheeting & Specialty Co. No. 149,220; Dec. 6.
Bacteriological starting culture. Vitalait Laboratory. No. 149,279; Dec. 6.
Baking-powder. Johnson-Appleby Company. No. 149,125; Dec. 6.
Bathing-rompers. Neuman & Rubin. No. 149,183; Dec. 6.
Bellows and shovels, Molders'. Osborn Manufacturing Company. No. 149,195; Dec. 6.
Belting, Textile. Victor Balata & Textile Belting Co. No. 148,991; Dec. 6.
Beverage and syrup for making same. B. F. Barbour. No. 149,303; Dec. 6.
Beverage, Non-alcoholic, maltless. A. C. Gibson. No. 149,311; Dec. 6.
Beverage, Non-alcoholic, non-cereal, maltless. U. L. Davis. No. 149,020; Dec. 6.
Beverage, Non-intoxicating, maltless, non-cereal. Joseph Kriez-Fink Co. No. 149,130; Dec. 6.
Beverages and syrups for making same. Acme Beverage-Extract Co. No. 148,966; Dec. 6.
Beverages, Non-intoxicating. H. P. Schroeder. No. 149,232; Dec. 6.
Blanket-bindings and tapes. Macungie Silk Company. No. 149,153; Dec. 6.
Blankets. Chatham Manufacturing Company. Nos. 149,010–2; Dec. 6.
Boilers, Range-. Pennsylvania Range Boiler Co. No. 149,199; Dec. 6.
Boots and shoes for infants and children. Towle & Surridge. No. 149,267; Dec. 6.
Boots and shoes, Infants' and children's. Little Witch Shoe Co. No. 149,145; Dec. 6.
Boots and shoes, Leather. Knipe Bros. No. 149,132; Dec. 6.
Bread. Northwestern Distributing Co. No. 149,189; Dec. 6.
Bread and rolls, cakes, and pastry, wheat. Frank L. Hall Co. No. 149,094; Dec. 6.
Brilliantine, face powder and lotion. M. M. R. Vve. Grenoville. No. 149,085; Dec. 6.
Bumpers, Automobile-. Ramspring Bumper Co. No. 149,209; Dec. 6.
Butter, eggs, and poultry. Tatham and Company. No. 149,257; Dec. 6.
Candles. Will & Baumer Candle Co. No. 149,331; Dec. 6.
Candy, Chocolate. Ahern & Co. No. 148,971; Dec. 6.
Candy. W. S. Milliken. No. 149,168; Dec. 6.
Candy. Spoehr's. Nos. 149,242–3; Dec. 6.
Candy. Stephen F. Whitman & Son. No. 149,290; Dec. 6.
Candy. Tru-Blu Biscuit Company. Nos. 149,264–6; Dec. 6.
Caps, Miners'. T. R. Jones. No. 149,126; Dec. 6.
Carbonated soft drinks and syrups. H. P. Hood & Sons. No. 149,113; Dec. 6.
Cards, Playing-. Midland Playing Card Co. No. 149,164; Dec. 6.
Castings for pumps and pumping plants. Monarch Foundry Company. No. 149,171; Dec. 6.
Chemical preparation for protection of cured meat from skippers, &c. E. E. Gooch Manufacturing Co. No. 149,078; Dec. 6.
Chocolates. D. Auerbach & Sons. No. 148,987; Dec. 6.
Chocolates. Touraine Company. No. 149,260; Dec. 6.
Cleaning clothing, Liquid for. L. V. Nicholas Oil Company. No. 149,185; Dec. 6.
Cleaning fluid, Non-inflammable. W. B. Sleeper. No. 149,238; Dec. 6.
Clothing. M. R. Gray. No. 149,083; Dec. 6.
Clothing, Certain articles of. Bally Co. Nos. 148,993–4; Dec. 6.
Clothing, Certain articles of. J. M. Klein. No. 149,131; Dec. 6.
Clothing, Certain articles of. Pfeifer Brothers. No. 149,325; Dec. 6.
Clothing, Certain articles of. John Scowcroft & Sons. No. 149,328; Dec. 6.
Clothing, Men's. Sam Adelman & Co. No. 148,970; Dec. 6.
Coal. Graphite Mines Corporation. No. 149,082; Dec. 6.
Coats, shirts, pants, and trousers, overalls, Work. Freeland Overall Manufacturing Co. No. 149,065; Dec. 6.
Coats, vests, and trousers, for men. Kahn Tailoring Company. No. 149,120; Dec. 6.
Collars. Oppenheim, Oberndorf & Co. No. 149,192; Dec. 6.
Collars, shirts, blouses, &c., Children's. W. M. Steppacher & Bro. No. 149,251; Dec. 6.
Coloring materials for foods. George V. Gross & Company. No. 149,088; Dec. 6.
Compound for polishing glass, metal, and like surfaces. S. W. Morgan. No. 149,174; Dec. 6.
Construction materials, Certain. Riordon Company. No. 149,215; Dec. 6.
Corsets, brassières, and leg-garments. A. R. Alston. Nos. 149,300–1; Dec. 6.
Cotton piece goods. Amoskeag Manufacturing Company. No. 148,985; Dec. 6.
Cotton piece goods. Burton Bros. & Co. No. 149,007; Dec. 6.
Cotton piece goods. Sears, Roebuck and Co. No. 149,234; Dec. 6.
Cotton piece goods. Williams-Richardson Company. No. 149,293; Dec. 6.
Cotton piece goods—viz., gingham. Delgado Mills. No. 149,031; Dec. 6.
Cotton-seed meal. C. L. Montgomery. No. 149,172; Dec. 6.
Cotton, worsted, woolen, and linen piece goods. Corning International Corporation. No. 149,022; Dec. 6.
Cough-drops. J. R. Council. No. 149,025; Dec. 6.
Crank-pin returning or truing tools. H. A. Lee. No. 149,139; Dec. 6.
Cream, Face-. R. Myers. No. 149,178; Dec. 6.
Cream, Toilet. J. F. Hejda. No. 149,106; Dec. 6.
Creams and face-powder, Mud massage, cold, and vanishing. Weichsel Laboratories. No. 149,284; Dec. 6.
Crepe and silk in the piece. Louis Roessel & Co. No. 149,218; Dec. 6.
Dental supplies and appliances. L. D. Caulk Company. No. 149,307; Dec. 6.
Dentifrice. L. Brave. No. 149,304; Dec. 6.
Deodorants. F. La Piana. No. 149,319; Dec. 6.
Disinfectant and cleansing compound. Sawyer Crystal Blue Company. No. 149,228; Dec. 6.
Disinfectant, bedbug preparation, and mosquito-lotion. C. E. Trichel. No. 149,263; Dec. 6.
Disinfectants and air-conditioning preparations. Sanitas Company. No. 149,226; Dec. 6.
Disinfectants, insecticides, deodorants. Sanitas Company. Nos. 149,223–5; Dec. 6.
Display-shelves. H. B. Howe Company. No. 149,115; Dec. 6.
Dolls. Irokese Trading Corporation. No. 149,121; Dec. 6.
Doll with flexible joints. M. R. Schnack. No. 149,231; Dec. 6.
Dresses, coats, rompers, bloomers, &c., for children, misses, and juniors. Hanover Mfg. Co. No. 149,096; Dec. 6.
Dresses, House-. Ty-On Frock Co. No. 149,330; Dec. 6.
Dresses, Infants' and children's colored washable. Universal Childrens Dress Co. No. 149,274; Dec. 6.
Dress-form sets. Liberty Paper Co. No. 149,141; Dec. 6.
Dye preparation, Liquid. H. R. Bass. No. 148,995; Dec. 6.
Dyestuffs. Geigy Company. No. 149,067; Dec. 6.
Electric cable and insulated wire. Habirshaw Electric Cable Company. No. 149,313; Dec. 6.
Electrodes, Arc-welding metal. Transportation Engineering Corporation. No. 149,261; Dec. 6.
Engines, Lubricant-deflecting device for internal-combustion. E. M. White. No. 149,286; Dec. 6.
Fabrics in the piece, Pile. Salts' Textile Manufacturing Company. No. 149,221; Dec. 6.
Fans and blowers. Green Fuel Economizer Company. No. 149,312; Dec. 6.
Files. Ever Sharp File Co. No. 149,046; Dec. 6.
Fishing-lines. S. Allcock & Co. No. 148,972; Dec. 6.
Flour, dairy rations, stock feed, Wheat-. Merrill & Mayo Co. No. 149,322; Dec. 6.
Flour, Wheat-. Ballard & Ballard Company. No. 148,992; Dec. 6.
Flour, Wheat-. E. C. Hawkins. No. 149,101; Dec. 6.
Flour, Wheat-. Red Star Milling Company. No. 149,210; Dec. 6.
Flour, Wheat-. Stafford Flour Mills Co. No. 149,246; Dec. 6.
Fluids, Engine-starting. Hall-Thompson Company. No. 149,095; Dec. 6.
Food. Prunola Health Food Company. No. 149,205; Dec. 6.

Footwear, Leather. Holland Shoe Co. No. 148,991; Dec. 6.
Fractings for pastries. C. H. Wills. No. 149,276; Dec. 6.
Fruits in their natural state, Citrus. H. Wall. No. 149,232; Dec. 6.
Furnaces, Ore and oil-shale roasting. American Continuous Ireland Company. No. 148,911; Dec. 6.
Gauze Apparatus, Burner-fixing attachment. L. A. Ellison. No. 149,044; Dec. 6.
Gauze, Paper-cut-out. Curtis Clemens Company. No. 149,304; Dec. 6.
Gowns, Surgeons'. Wayne Paper Goods Company. No. 149,242; Dec. 6.
Garters-retainers, Certain. Edgar A. Jackson & Bro. No. 149,122; Dec. 6.
Garment for children, Outer wear-all. F. W. Mackay. No. 149,155; Dec. 6.
Garters, Men's. J. Eyres. No. 149,320; Dec. 6.
Gears and differential gears for vehicle rear axles. Detroit Gear & Axle Company. No. 149,036; Dec. 6.
Gingham in the piece. York Mfg. Co. No. 149,280; Dec. 6.
Golf balls. United States Rubber Company. No. 149,270; Dec. 6.
Golf-clubs. Jordan Marsh Company. No. 149,127; Dec. 6.
Golf putters. Kraemer & Co. No. 149,124; Dec. 6.
Governors for governing the speed of internal-combustion motors. Ford Dealers Supply Company. No. 149,035; Dec. 6.
Grease stock. Philip Carey Manufacturing Company. No. 149,200; Dec. 6.
Hair. L. Levysohn. No. 149,146; Dec. 6.
Hair and scalp tonics and dressings. E. L. McDowell. No. 149,151; Dec. 6.
Hair-grower. L. Wiley. No. 149,291; Dec. 6.
Hair-nets. N. B. Cohen. No. 149,014; Dec. 6.
Hair-nets. S. Glenday's Sons Co. No. 149,176; Dec. 6.
Hair-nets. W. T. Grant Co. No. 149,091; Dec. 6.
Hair-nets. Hair Net Importing Company. No. 149,092; Dec. 6.
Hair-nets. Rimor Company. No. 149,214; Dec. 6.
Hairpins. E. B. Dewey. No. 149,053; Dec. 6.
Hair pins and combs. T. W. Earl. Nos. 149,277; Dec. 6.
Hair-restorative. M. G. Krebs. No. 149,152; Dec. 6.
Hair-tonic. L. C. McDonald. No. 149,149; Dec. 6.
Hats, Chicago Mercantile Company. No. 149,013; Dec. 6.
Hats, Girls'. May Evelyn Hat Co. No. 149,190; Dec. 6.
Hats, Men's and women's. Davis-Pope Company. No. 149,309; Dec. 6.
Hats, Men's, women's, and children's. A. Zeiser. No. 149,308; Dec. 6.
Hats, Women's and children's. Ogne Rabinovich & Ogne Co. No. 149,181; Dec. 6.
Heaters and furnaces, Hot-air and moisture hot-air and hot-water. Estate of F. D. Beckwith, Inc. No. 149,040; Dec. 6.
Heaters, Oil-. American Oil Burner Company. No. 148,979; Dec. 6.
Hoes, machetes, axes, cold-rolled steeling. Cornelius International Corporation. No. 149,041; Dec. 6.
Honey, Comb and extracted. Wisconsin Honey Farms. No. 149,298; Dec. 6.
Horseshoe-nails, Cold-rolled. Fewter Nail Co. Nos. 149,062–3; Dec. 6.
Hosiery. Berks Knitting Company. No. 148,986; Dec. 6.
Hosiery. Cardinal Mills. No. 149,005; Dec. 6.
Hosiery. Goodman Hosiery Mills. No. 149,080; Dec. 6.
Hosiery. S. Hailf & Co. No. 149,093; Dec. 6.
Hosiery. La Mode Mills. No. 149,317; Dec. 6.
Hosiery. Surpass Hosiery Co. No. 149,154; Dec. 6.
Hosiery. United Hosiery Company. No. 149,272; Dec. 6.
Hosiery, Ladies' and men's. Hoover Hosiery Company. No. 149,114; Dec. 6.
Jewelry, Certain. Henry W. Fiebel & Sons. Nos. 149,043–4; Dec. 6.
Knitted caps, Men's and boys'. Regent Knitting Corporation. No. 149,211; Dec. 6.
Knitting-machines. Latch-needles for. Geo. H. Arms (Co. No. 149,209; Dec. 6.
Laxative. L. A. Coffee. No. 149,018; Dec. 6.
Leather backings, Certain. Chas. A. Schieren Company. No. 149,229; Dec. 6.
Leathers. C. Mennen Sons Company. No. 149,179; Dec. 6.
Lotion, Skin-. Marshall Field & Company. No. 149,188; Dec. 6.
Mackinaws and overcoats. Spokane Dry Goods Company. No. 149,244; Dec. 6.
Machinery and tools, Certain. Ingersoll-Rand Company. No. 149,117; Dec. 6.
Magazine, House. Coleman Lamp Company. No. 149,017; Dec. 6.
Magazine, Monthly. International Magazine Company. No. 149,119; Dec. 6.
Magazine or house organ. H-O Cereal Company. No. 149,110; Dec. 6.
Magazines and pamphlets. Rose and Company. No. 149,219; Dec. 6.
Magazines, Monthly. E. R. Allured. Nos. 148,979–0; Dec. 6.
Mats, Leather floor. P. B. Tobias. No. 149,197; Dec. 6.
Medicated salt brick for live stock. Blackman Stock Remedy Co. No. 149,001; Dec. 6.
Medicinal preparations. C. Fulton. No. 149,051; Dec. 6.
Medicinal preparations. H. Solomon. No. 149,240; Dec. 6.
Medicinal preparations. A. S. Whitfield. No. 149,249; Dec. 6.
Medicinal preparations. E. Wolfram. No. 149,296; Dec. 6.
Medicinal preparations, Certain. Puritan Drug Mfg. Co. Nos. 149,201–4; Dec. 6.
Medicines, preparations for treatment of Rheumatism and neuralgia. H. C. Wagner. No. 149,288; Dec. 6.
Medicines, Indigestion. J. C. Dresser. No. 149,005; Dec. 6.
Medicines for treatment of indigestion. Orange Chemical Co. No. 149,198; Dec. 6.
Medicines for rheumatism. A. P. W. Pawsey. No. 149,269; Dec. 6.
Metal moldings and metal-building sections. Interlocking Steel Sash Corporation. No. 149,119; Dec. 6.
Metal-spinning machines. H. E. Schmidt Company. No. 149,178; Dec. 6.
Metals, Preparation for soldering. Harness & Van Winkle Company. No. 149,097; Dec. 6.
Milk, Unevaporated evaporated. American Milk Products Corporation. No. 149,076; Dec. 6.
Milling cutters, saws-saw, drills, &c. D. C. Goode Company. No. 149,079; Dec. 6.
Mouth-wash and antiseptic, Liquid. H. L. Lawlor. No. 149,090; Dec. 6.
Musical instruments. American Piano Company. Nos. 149,095–7; Dec. 6.
Muslin, canvas, yellow-cross Waterfast. Cooper, Coats & Conley Dry Goods Co. Nos. 149,019–20; Dec. 6.
Natural gas, gaseous hydrocarbon, and gasoline. Hecht & Mendes. No. 149,105; Dec. 6.
Nursettes. E. H. Hyndert. No. 149,061; Dec. 6.
Oats, cereal-meal, ground. Boone-proof Cereal-meal. Atlas Cereal Company. No. 149,206; Dec. 6.
Oil, Lubricating. Automotive Lubricant Company. No. 149,066; Dec. 6.
Oil, Lubricating. Mono-Motor Manufacturing Company. No. 149,173; Dec. 6.
Oil, Petroleum. Standard Oil Company. No. 149,248; Dec. 6.
Oil, White mineral. Standard Oil Company. No. 149,249; Dec. 6.
Oils and greases, Certain. Atlantic Refining Company. No. 149,254; Dec. 6.
Oils and greases, Lubricating. Lubricants Company. No. 149,147; Dec. 6.
Oils, Fuel. Texas Oil Co. No. 149,189; Dec. 6.
Oils, Lubricating. Sun Company. No. 149,253; Dec. 6.
Ointment for treatment of hemorrhoids. G. W. D. Robbins. No. 149,216; Dec. 6.
Overalls, coveralls, trousers. Kahn Manufacturing Company. No. 149,128; Dec. 6.
Paint coating or enamel for iron surfaces. J. Davis. No. 149,027; Dec. 6.
Paints and water proofing fillers. The Triocem Chemical Co. No. 149,184; Dec. 6.
Paper and as a coating for wall paper, Clay used as a filler in the manufacture of. R. T. Vanderbilt Co. No. 149,277; Dec. 6.
Paper bags, merchandise-envelope, and paper car-liners. Kennedy Car Liner & Bag Co. No. 149,315; Dec. 6.
Paper, Carbon-. R. G. Landis. No. 149,118; Dec. 6.
Paper, paper napkins and towels Toilet-. Wortendyke Manufacturing Co. No. 149,325; Dec. 6.
Paper, Safety-. Torman Bassett Company. Nos. 149,059–60; Dec. 6.
Paper towels. Stevens & Thompson Paper Company. No. 149,252; Dec. 6.
Papers, Certain. Educational Supply Company. No. 149,043; Dec. 6.
Papers, Ledger-. Ading and Cory Company. No. 148,974; Dec. 6.
Peaches, Fresh. L. T. Foss. No. 149,061; Dec. 6.
Pencils and crayons, Certain. The Thomas & Inger Company. No. 149,234; Dec. 6.
Pens, Fountain-. Dunn Pen Company. Nos. 149,055–7; Dec. 6.
Perfumes. F. W. Fitch Company. No. 149,052; Dec. 6.
Perfumes, toilet waters, &c. M. M. R. Vve. Grenouville. No. 149,086; Dec. 6.
Petroleum products consisting of gasoline, kerosene, &c. Pierce Oil Corporation. No. 149,201; Dec. 6.
Pettibocts, sweaters, scarfs, &c. D. W. Shuyer & Co. No. 149,235; Dec. 6.
Pharmacies. Lakeside Supply Company. No. 149,316; Dec. 6.
Piston-rings. General Utility Company. No. 149,060; Dec. 6.
Piston-rings. No-Leak-O Piston Ring Company. No. 149,136; Dec. 6.
Play engines and coasters for children. H. C. White Company. No. 149,287; Dec. 6.
Pliers. C. E. Swihart. No. 149,208; Dec. 6.
Plumbago-like formation for treatment of amoebiasis, &c. H. R. Herrower. Nos. 149,090–100; Dec. 6.
Polishing cloths for gold, &c. L. G. Pearson Corp. No. 149,187; Dec. 6.
Porcelain for dental teeth, enamel facings, &c. L. D. Caulk Company. No. 149,098; Dec. 6.
Pottery ware. Marshall Field & Company. No. 149,321; Dec. 6.
Powder and cream, Face-. P. Meyer. No. 149,182; Dec. 6.

Powder, Face-. Tremonte Co. No. 149,262; Dec. 6.
Powder-puffs, Bonnie-B Company. No. 149,002; Dec. 6.
Powders, perfumes, and bath-salts, Talcum and face. J. J. Spooner. No. 149,245; Dec. 6.
Preparation for relief of venereal disease. A. C. Guzzardo. No. 149,090; Dec. 6.
Preparation used as a polish and as a cleanser, Ultra Refined Crude Products Company. No. 149,270; Dec. 6.
Preparation useful in general debility, coughs, &c. R. W. Moore. No. 149,323; Dec. 6.
Printed and engraved matter. W. F. Roberts Company. No. 149,217; Dec. 6.
Publications, Monthly periodical. Farm Publishing Company. No. 149,043; Dec. 6.
Publication, Weekly. Coin Publishing Company. No. 149,016; Dec. 6.
Publications, magazines, periodicals, and supplements thereto, Printed. United Business Service Company. No. 149,271; Dec. 6.
Publications, Monthly. California Cotton Mills Company. No. 149,008; Dec. 6.
Publications. Malone & Hyde. No. 149,155; Dec. 6.
Pumps, valves, &c., Oil-well. Northrup Equipment Company. No. 149,188; Dec. 6.
Puttees. Cal Hirsch & Sons Mercantile Co. No. 149,109; Dec. 6.
Radiator caps, Automobile. C. M. Grey Mfg. Co. No. 149,087; Dec. 6.
Raincoats, Ladies'. Heatons (Leeds,) Ltd. No. 149,103; Dec. 6.
Razor-strops. Illinois Razor Strop Company. No. 149,116; Dec. 6.
Remedy for stomach, kidney, liver, bladder, and blood troubles, &c. R. H. MacDonald. No. 149,150; Dec. 6.
Repair kits, Inner-tube-. L. Stafford. No. 149,247; Dec. 6.
Rubber mats and matting. Federal Rubber Company. Nos. 149,049–50; Dec. 6.
Rubber pants for infants' wear. Sanitary Rubber Novelty Mfg. Co. No. 149,222; Dec. 6.
Rubber tire and tube patches, &c., Sheet-. J. W. Freedly. No. 149,064; Dec. 6.
Rugs, Textile. George Borgfeldt & Co. No. 149,003; Dec. 6.
Rust-preventing and polishing preparation. F. T. Adams. No. 148,968; Dec. 6.
Salve for cuts, boils, &c. J. W. Henderson. No. 149,108; Dec. 6.
Salve for piles. G. T. Floto. No. 149,056; Dec. 6.
Scissors and shears. Acme Shear Company. No. 148,967; Dec. 6.
Serges in the piece. Hecht & Mendes. No. 149,104; Dec. 6.
Shade-cloth. Interstate Shade Cloth Co. No. 149,120; Dec. 6.
Shades of glazed fabric. Eastern Art Shop. No. 149,039; Dec. 6.
Shampoo. Harral Soap Co. No. 149,098; Dec. 6.
Sheetings, drills, and flannels in the piece, Cotton. Indian Head Mills of Ala. No. 149,314; Dec. 6.
Shingles. Reynolds Company. No. 149,213; Dec. 6.
Shirts, Dress, negligée, and work. L. Silfin. No. 149,237; Dec. 6.
Shock-absorbers for vehicles. National Steel Products Company. No. 149,181; Dec. 6.
Shock-absorbers, Vehicle. Duplex Shock Absorber Corp. No. 149,038; Dec. 6.
Shoes. Northern Jobbing Company. No. 149,187; Dec. 6.
Shoes. B. F. Reynolds. No. 149,212; Dec. 6.
Shoes. J. P. Smith Shoe Co. No. 149,329; Dec. 6.
Shoes and slippers, Cloth. Outing Shoe Company. No. 149,196; Dec. 6.
Shoes and slippers, Felt. B. E. Bresee. No. 149,004; Dec. 6.
Shoes, Leather. Edmonds Shoe Company. Nos. 149,040–2; Dec. 6.
Shoes made wholly or in part of leather. Cotter Shoe Co. No. 149,024; Dec. 6.
Signals and railway-switches and parts thereof, &c., Block-Signal Accessories Corporation. No. 149,236; Dec. 6.
Silk goods in the piece. J. A. Migel Inc. No. 149,166; Dec. 6.
Silk goods in the piece. J. A. Migel Inc. No. 149,166; Dec. 6.
Silk in the piece, Broad. J. A. Migel Inc. No. 149,165; Dec. 6.
Silk piece goods. Golding Fabrics Corporation. No. 149,077; Dec. 6.
Silk, wool, linen, cotton, and china-grass piece goods, Blanchini, Férier. Nos. 148,987–8; Dec. 6.
Skin-cream. L. Y. Figueroa & P. S. Waldorf Co. No. 149,052; Dec. 6.
Sliced prepared toast in packages. Porter Baking Co. No. 149,203; Dec. 6.
Soap cream. National Drug Stores Corp. No. 148,752; Dec. 6.
Soap, Toilet. Los Angeles Soap Co. No. 149,320; Dec. 6.
Soaps. Naamloose Vennootschap; Eau De Cologne fabriek voorheen J. C. Boldoot. No. 149,179; Dec. 6.
Soles and heels for boots and shoes. Lima Cord Sole & Heel Company. No. 149,142; Dec. 6.
Spreaders, Manure and straw. Litchfield Manufacturing Company. No. 149,143; Dec. 6.
Sprocket-valve wheel rims and chain-guides. Babbitt Steam Specialty Co. No. 148,990; Dec. 6.
Steel-wool. Williams Company. No. 149,292; Dec. 6.
Steels and steel bars, wire, &c., Tool-. Corning International Corporation. No. 149,023; Dec. 6.
Suits, boys' blouses, negligée and dress shirts, Children's outer. J. H. Janowitch & Janov. No. 149,124; Dec. 6.
Suits, overcoats, mackinaws, pants, and vests. I. I. Marmus. No. 149,156; Dec. 6.
Suspenders and hose-supporters Nu-Way Stretch Suspender Co. No. 149,190; Dec. 6.
Tablets, Laxative. McCrillus Medical Co. No. 149,148; Dec. 6.
Talking-boards. M. Jacobson. No. 149,123; Dec. 6.
Taps, Thread-cutting. Greenfield Tap and Die Corporation. No. 149,084; Dec. 6.
Telephone and parts thereof. Universal High Power Telephone Company. No. 149,275; Dec. 6.
Tire casings and tubes, Rubber. Achilles Rubber and Tire Co., Inc. No. 148,965; Dec. 6.
Tires and inner tubes for same, Rubber and fabric outer casings for pneumatic automobile. Victor Rubber Company, The. No. 149,278; Dec. 6.
Tobacco, Antidote and substitute for. Trust Estate of Adolph C. Meyer, Deceased. No. 149,161; Dec. 6.
Toilet preparation, Certain. G. S. Kolar Laboratories. No. 149,133; Dec. 6.
Toilet preparations. Marshall Field & Company. No. 149,157; Dec. 6.
Toilet preparations, Certain. Lé Benart Import Co. No. 149,138; Dec. 6.
Toilet preparations, Certain. Sté. Auonyme des Produits Dorilly. No. 149,250; Dec. 6.
Tonic alterative. F. C. Hazelrigg. No. 149,102; Dec. 6.
Tonic, Certain medicinal. Dr. Peter Fahrney & Sons Co. No. 149,047; Dec. 6.
Tonics and dressings for the hair and scalp. P. Davis. No. 149,028; Dec. 6.
Tonics and dressings for the hair and scalp. L. Mumford. No. 149,177; Dec. 6.
Tonics, General. F. A. Weinstein. No. 149,285; Dec. 6.
Tooth-paste, S. M. Solomon. No. 149,241; Dec. 6.
Tooth-paste. R. I. Willmarth. No. 149,294; Dec. 6.
Torch, Self-blowing. E. Folgman. No. 149,057; Dec. 6.
Tourniquets, bandages, &c. American Standard Tourniquet Company. No. 149,302; Dec. 6.
Towels, Textile. E. E. Alley. No. 148,973; Dec. 6.
Toy carpet-sweepers. Bissell Carpet Sweeper Co. Nos. 148,999–149,000; Dec. 6.
Toy dogs, Stuffed. Davis and Voetsch. Nos. 149,029–30; Dec. 6.
Toy music-boxes. Lang & Pressprich. No. 149,137; Dec. 6.
Toys, Certain. National Toy and Tinsel Mfg. Co. No. 149,182; Dec. 6.
Tractors, Gasolene industrial. Towmotor Company. No. 149,268; Dec. 6.
Underwear. Tailored Silk Undergarment Co. No. 149,256; Dec. 6.
Underwear and hosiery. I. M. Mirsky. No. 149,169; Dec. 6.
Underwear, Wool. Medlicott Company. No. 149,160; Dec. 6.
Union-suits. Oppenheim, Oberndorf & Co. No. 149,324; Dec. 6.
Vehicles—namely trucks, Self-propelled. Locomobile Company of America. No. 149,146; Dec. 6.
Vending machines. Colngum Manufacturing Company. No. 149,015; Dec. 6.
Vermin-exterminator. Bu Bono Inc. No. 149,006; Dec. 6.
Waists. Waistcraft Corporation. No. 149,281; Dec. 6.
Washing compound. W. A. Kittredge Company. No. 149,130; Dec. 6.
Washing-tablets for fabrics. Little Servant Mfg. Co. No. 149,144; Dec. 6.
Watches, &c. E. Gisiger. No. 149,068; Dec. 6.
Watches, clocks, alarm-clocks. Galdo Dulzaides y Compañía. No. 149,310; Dec. 6.
Watches, Ladies' and men's. Burlington Watch Co. No. 149,305; Dec. 6.
Watches, watchcases, watch dials and movements, and alarm-clocks. E. Gisiger. Nos. 149,070–5; Dec. 6.
Waterproof bloomers, Babies'. Rubberized Sheeting & Specialty Co. No. 149,327; Dec. 6.
Woolen and worsted cloth in piece goods. A. C. Gaunt. No. 149,066; Dec. 6.
Woolen and worsted piece goods. Pontoosuc Woolen Mfg. Co. No. 149,202; Dec. 6.
Woolen goods in the piece. Worumbo Manufacturing Company. No. 149,297; Dec. 6.
Wrenches. E. Schwarz. No. 149,238; Dec. 6.
Yarns. Home Woolen Mills. No. 149,112; Dec. 6.
Yarns and floss. Domestic Mills Company. No. 149,034; Dec. 6.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Air-brush plants. Decora Manufacturing Co. No. 149,686; Dec. 6.
Auto-seats, camp and folding chairs. Brockman Company. No. 153,000; Dec. 6.
Bath-robes, sacks, buntings, &c., for infants. Onita Specialty Co. No. 144,041; Dec. 6.
Bath-tubs, lavatories, &c. Plumbers Supply Company. No. 147,126; Dec. 6.
Belting, Ladies' dress-. Russell Manufacturing Company. No. 131,657; Dec. 6.
Boiler-tube cleaners. Worcester Brush and Scraper Company. No. 148,101; Dec. 6.
Bolts, anchor-rail bolts, and clamps used with anchor-rails, stringers, and metal sections. Midwest Steel & Supply Co. No. 144,929; Dec. 6.
Bolts and nuts, chain, woven-wire fencing. John Dunn Son and Co. No. 140,868; Dec. 6.
Bonds, interest-coupons, &c. General Securities Corporation. No. 137,774; Dec. 6.
Boots, shoes, overshoes. E. H. Milgram. No. 147,972; Dec. 6.
Bottle-cap lifters, Milk-. E. B. Hunsiker. No. 151,671; Dec. 6.
Brazing flux. S. E. Atkinson. No. 143,732; Dec. 6.
Buttons of vegetable ivory. M. B. Shants, Incorporated. No. 138,050; Dec. 6.
Cake. Grennan Cake Corporation. No. 150,528; Dec. 6.
Candy. Ward-Oysley Co. No. 144,596; Dec. 6.
Canned fruits, vegetables, and fish, coffee. Tibbitts-Hewitt Gro. Co. No. 147,806; Dec. 6.
Casein product for use in the manufacture of cigar and cigarette holders, pipes, &c. Redmanol Chemical Products Co. No. 152,933; Dec. 6.
Castings, Non-ferrous. Acme Die Casting Corporation. No. 139,926; Dec. 6.
Cigarettes. Christian Peper Tobacco Co. No. 150,100; Dec. 6.
Cigarettes. C. Jones. No. 154,031; Dec. 6.
Cigarettes. United Kingdom Company. No. 150,120; Dec. 6.
Cigars. W. Bercovich. No. 154,010; Dec. 6.
Cigars. P. I. Bernstein. No. 147,548; Dec. 6.
Cigars. Central Cigar Manufacturing Company. No. 152,913; Dec. 6.
Cigars, cigarettes, tobacco. E. S. Cochran. No. 149,889; Dec. 6.
Cigars. Estate of Joseph J. Schaefer, Deceased. No. 146,989; Dec. 6.
Cigars. Estate of Joseph J. Schaefer, Deceased. No. 146,992; Dec. 6.
Cigars. Estate of Joseph J. Schaefer, Deceased. No. 146,995; Dec. 6.
Cigars, cigarettes, tobacco. Falk Tobacco Company. No. 152,505; Dec. 6.
Cigars. Grommes & Elson. No. 150,745; Dec. 6.
Cigars. P. C. Lee. No. 150,624; Jan. 6.
Cigars. I. Lewis Cigar Manufacturing Company. Nos. 147,560–1; Dec. 6.
Cigars. E. B. Quinby. No. 147,989; Dec. 6.
Cigars. U. G. Sharp. No. 149,106; Dec. 6.
Cigars. J. Sonnenfeld. No. 152,760; Dec. 6.
Cigars. Welwel Cigar Manufacturing Co. No. 149,254; Dec. 6.
Cigars. Joseph Whitcomb & Co. No. 150,383; Dec. 6.
Cleaner-polish for metals, glass, and porcelain. Noxon Chemical Products Co. No. 138,261; Dec. 6.
Cleaning fluid. Presto Chemical Co. No. 138,517; Dec. 6.
Clippers, Hair-. Boker Cutlery & Hardware Company. No. 151,445; Dec. 6.
Colors and rennet extract, Butter and cheese. Chr. Hansen's Laboratory. No. 141,567; Dec. 6.
Cordage. Hooven & Allison Company. No. 154,514; Dec. 6.
Corsets. I. Newman & Sons. No. 149,109; Dec. 6.
Cotton piece goods. Société Rodier. No. 148,298; Dec. 6.
Crates, Poultry-. United Steel and Wire Co. No. 140,857; Dec. 6.
Cream, Toilet or complexion. R. H. Cochran. No. 153,072; Dec. 6.
Cuticle-remover. Northam Warren Corporation. No. 151,640; Dec. 6.
Dental supplies. Goldsmith Brothers Smelting and Refining Company. No. 152,798; Dec. 6.
Deodorant and disinfectant. Kane Chemical Company. No. 153,218; Dec. 6.
Drawing instruments and appliances. M. Winter. No. 148,252; Dec. 6.
Dresses and aprons, Women's and children's. J. A. Rodifer. No. 149,098; Dec. 6.
Dresses, Ladies' and misses'. Duke, Abrahams & Payson, Inc. No. 148,983; Dec. 6.
Extracting-elevators, dental surgical curettes, &c. H. Friedman. No. 145,166; Dec. 6.
Feed. Pease & Dwyer Co. No. 142,523; Dec. 6.
Feed, Dairy. R. M. Stegall. No. 150,206; Dec. 6.
Feed, Horse and cattle. Omaha Alfalfa Milling Co. No. 149,095; Dec. 6.
Files, Manicure-. Schnefel Bros. Nos. 148,307–10; Dec. 6.
Floor-surfacing machine. American Floor Surfacing Machine Co. No. 150,172; Dec. 6.
Flour, canned goods, butter, &c. O. A. Beam & Son. No. 142,952; Dec. 6.
Flour, Wheat-. Northwestern Consolidated Milling Company. No. 121,353; Dec. 6.
Foil wrappers. United States Foil Company. No. 146,939; Dec. 6.
Food and food products cooked and ready to be eaten. Capitol Lunch System. No. 132,957; Dec. 6.
Foot-powder. B. Marsalise. No. 151,634; Dec. 6.
Fruits, berries, vegetables, &c. Oregon Growers Coöperative Assn. No. 147,452; Dec. 6.
Furniture-polish. J. Hoeft. No. 143,168; Dec. 6.
Gasolene. Automobile Gasoline Company. No. 151,975; Dec. 6.
Gasolene and kerosene. Mason City Oil & Grease Company. No. 151,840; Dec. 6.
Gloves and mittens. Boss Manufacturing Company. No. 141,451; Dec. 6.
Grain-bins, watering tanks and troughs, &c., Metal. California Corrugated Culvert Co. No. 138,901; Dec. 6.
Grain-separators and cleaning-machines, shaking-screens, &c. Gebruder Bühler. No. 136,781; Dec. 6.
Gravers, chisels, gouges, &c. Hammel Riglander & Co. No. 151,007; Dec. 6.
Hair curlers and wavers. I. Hoffman. No. 153,248; Dec. 6.
Hats, Ladies'. J. Tenebaum & Sons. No. 149,250; Dec. 6.
Heels, Rubber. Emery Rubber Heel Company. No. 150,354; Dec. 6.
Hops. Decatur Brewing Company. No. 153,872; Dec. 6.
Hosiery. A. R. Hodder. No. 148,838; Dec. 6.
Hosiery. Shawnee Textile Company. No. 146,935; Dec. 6.
Insecticide. Bass-Parker Co. No. 151,609; Dec. 6.
Knives, Pocket-. E. N. Kennedy. No. 151,515; Dec. 6.
Lathes, planers, shapers, &c. W. K. Stamets. No. 149,783; Dec. 6.
Leather preservatives, finishing and tanning agents. Badische Anilin- & Soda-Fabrik. No. 153,173; Dec. 6.
Leathers, Finishes for. W. B. Carroll. No. 137,761; Dec. 6.
Lenses, glasses, and mirrors. California Optical Company. No. 149,848; Dec. 6.
Liniments. M. L. Cassity. No. 151,576; Dec. 6.
Liquid, piston, disk, &c., meters, disk counters. Worthington Pump and Machinery Corporation. No. 149,609; Dec. 6.
Lotion for skin irritation. R. B. Riccius. No. 152,966; Dec. 6.
Lotion, Skin. Ohio Valley Drug Company. No. 151,591; Dec. 6.
Lubricator or dressing, Belt. L. F. Edwards. No. 153,652; Dec. 6.
Machinery-guards. Orr Machine Guarding Co. No. 151,843; Dec. 6.
Magazine, Monthly. Paluszek Brothers, Inc. No. 152,931; Dec. 6.
Matches. Zündwaren-Aktiengesellschaft "Helios." No. 145,301; Dec. 6.
Mattresses. Barcalo Manufacturing Company. No. 152,605; Dec. 6.
Mattresses and cushions. J. M. Hansen. No. 153,000; Dec. 6.
Medicinal preparation. Werne Manufacturing Company. No. 153,166; Dec. 6.
Mosquito-repellent. Audubon Chemical Company. No. 149,311; Dec. 6.
Mufflers and knitted ties, ladies' angora-wool sets, &c., Men's. Louvre Knitting Mills. No. 149,087; Dec. 6.
Newspaper-column title. New York Tribune, Inc. No. 152,211; Dec. 6.
Oils and greases, Lubricating. Motor Oil Specialty Co. No. 152,086; Dec. 6.
Overalls, work shirts, and pants. Philipsborn's, Inc. No. 147,682; Dec. 6.
Paints. Armor Oil & Chemical Company. No. 152,826; Dec. 6.
Percolators, coffee and tea urns, &c., Coffee-. J. L. Lemoine. No. 149,809; Dec. 6.
Perfumes. Colgate & Company. No. 152,983; Dec. 6.
Pillows. Levy Mattress Company. No. 153,608; Dec. 6.
Pillows, Feather. Star Bedding Co. No. 153,524; Dec. 6.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Plasters, Corn-. J. T. Hendershot. No. 151,714; Dec. 6.
Plugs for internal-combustion engines, Breather. Craig Manufacturing Co. No. 150,[illegible]; Dec. 6.
Polishing wheels and disks. Yorkville Manufacturing Company. No. 152,974; Dec. 6.
Preparation for removing carbon from the cylinders of internal-combustion engines. W. H. Moulton. No. 149,019; Dec. 6.
Preparation for removing superfluous hairs from the skin. A. Mitchell. No. 148,748; Dec. 6.
Prescriptions, Non-alcoholic vehicle or base for use by pharmacists in compounding. United Drug Company. No. 153,161; Dec. 6.
Printers' rollers, Preparation for washing. F. F. Nichols & Son. No. 152,964; Dec. 6.
Pumps, Vacuum heating and condensation. Nash Engineering Company. No. 150,553; Dec. 6.
Pyroxylin and nitrocellulose. E. I. du Pont de Nemours & Company. No. 150,430; Dec. 6.
Railway rails, ties, and switch-points, Materials, &c. Koppel Industrial Car & Equipment Co. No. 150,563; Dec. 6.
Raincoats. New York Mackintosh Clothing Company. No. 149,020; Dec. 6.
Razors. Union Cutlery Co. No. 151,644; Dec. 6.
Receptacle caps and cops. R. W. Wilson. No. 147,850; Dec. 6.
Remedy for coughs, colds, burns, [illegible], &c. Mackie Pine Oil Specialty Co. No. 129,937; Dec. 6.
Rim-tools. Ideal Rim Tool Company. No. 151,543; Dec. 6.
Rivet-upsetting machines. A. E. Meyer. No. 119,[illegible]; Dec. 6.
Rolling-pins. W. Harris. No. 150,445; Dec. 6.
Rope-machines. R. L. G. Day. No. 150,891; Dec. 6.
Rouge, dandruff remedy, and hair tonic, &c. C. C. Hay. No. 151,672; Dec. 6.
Rubber sheeting, sanitary aprons, belts, &c., Sanitary. L. Jaffe. No. 147,100; Dec. 6.
Rubber solution for repairing leather or rubber. F. Moulin. No. 150,453; Dec. 6.
Sardines. Bordeaux & New York Trading Co. Nos. 149,052–3; Dec. 6.
Scissors and shears. Cast-iron. Acme Shear Company. No. 136,847; Dec. 6.
Shirts, Work-. Reliance Manufacturing Company. No. 140,409; Dec. 6.
Skirts, petticoats, waists, &c., Women's. J. A. Migel, Inc. No. 149,016; Dec. 6.
Snap-fasteners. Waldes & Co. No. 121,072; Dec. 6.
Soaps and soap powders. A. Ast. No. 153,219; Dec. 6.
Socks-supporters, Hose-supporters, corsets. J. Lindauer. No. 144,263; Dec. 6.
Spray-[illegible]. "Breath" Fabrikation[illegible]Becraft, m. b. H. No. 149,817; Dec. 6.
Stains, Liquid. William Flood Company. No. 153,162; Dec. 6.
Stripe, Temporary [illegible], broaches, &c., Finishing-. M. E. Higgins. No. 142,786; Dec. 6.
Strippers for safety-razor blades. American Stropper Corporation. No. 154,646; Dec. 6.
Suits and overcoats, Men's. Philipsborn's, Inc. No. 147,[illegible]; Dec. 6.
Suits and overcoats, Men's and youths'. King Blair Co. No. 146,636; Dec. 6.
Suits, Boys' and young men's. Richman, Newburger & Travers. No. 141,[illegible]; Dec. 6.
Tags, Shipping-. International Tag Co. No. 153,[illegible]; Dec. 6.
Tanning hides, Chemical used for. Rohm & Haas Company. No. 152,[illegible]; Dec. 6.
Tinware, (tinned), enamelled, aluminum, and galvanized ware. Thomson-Diggs Company. No. 148,[illegible]; Dec. 6.
Tobacco. Barlow-Hearn Tobacco Company. No. 144,[illegible]; Dec. 6.
Tobacco. Christian Peper Tobacco Co. No. 132,[illegible]; Dec. 6.
Tobacco. Christian Peper Tobacco Co. No. 133,[illegible]; Dec. 6.
Tobacco, cigarettes, cigars, and snuff. Gallaher, Ltd. No. 152,422; Dec. 6.
Tobacco, cigars, cigarettes. A. Dumbill. No. 153,079; Dec. 6.
Tobacco, Smoking-. Zorro Tobacco Co. No. 149,[illegible]; Dec. 6.
Tobacco, Twist and granulated smoking. Samson Tobacco Company. No. 149,430; Dec. 6.
Tonic, Medicinal. H. T. Dewey & Sons Co. No. 150,728; Dec. 6.
Tonic, Medicinal. S. Pfeiffer Manufacturing Company. No. 131,040; Dec. 6.
Tractors. Central Tractor Company. No. 149,212; Dec. 6.
Trunks. Perkiomen Trunk and Bag Company. No. 145,413; Dec. 6.
Waists, Women's and misses'. Philipsborn's, Inc. No. 147,679; Dec. 6.
Washing machines, Laundry-. Getz Power Washer Co. No. 153,143; Dec. 6.
Wheelbarrows and tools and machinery. Fairbanks Company. No. 121,110; Dec. 6.
Wheels for bicycles, &c., Detachable [illegible]rubber-tired. Briggs & Stratton Company. No. 147,[illegible]; Dec. 6.

CLASSIFICATION OF PATENTS

ISSUED DECEMBER 6, 1921

NOTE.—First number—class, second number—subclass, third number—patent number.

3—	41:	1,399,255	24—	253:	1,399,233	58—	19:	1,399,452	80—	16:	1,399,384	104—	13:	1,399,357	137—	13:	1,399,434
		1,399,266	26—	41:	1,399,325		38:	1,399,972		21:	1,399,696		53:	R. 15,244		21:	1,399,509
	88:	1,399,522		99:	1,399,485		88:	1,399,322		28:	1,399,667		64:	1,399,577			1,399,606
	71:	1,399,579		107:	1,399,338	59—	99:	1,399,644	81—	3.1:	1,399,340		70:	1,399,469		112:	1,399,286
	73:	1,399,481		128:	1,399,228	61—	2:	1,399,286		41:	1,399,633		149:	1,399,408	138—	17:	1,399,149
		1,399,457		131. 5:	1,399,963	63—	79:	1,399,961		62:	1,399,621	105—	192:	1,399,709	139—	14:	1,399,287
	94:	1,399,726		151:	1,399,070		93:	1,399,446		91:	1,399,089		229:	1,399,253			1,399,295
	117:	1,399,602	26—	9:	1,399,109		159:	1,399,287		109:	1,399,265		276:	1,399,679	140—	10:	1,399,118
	121:	1,399,958		20:	1,399,049	64—	4:	1,399,288		119:	1,399,904		425:	1,399,077		126:	1,399,384
	300:	1,399,554	30—	94:	1,399,219		10:	1,399,001		183:	1,399,633	106—	23:	1,399,473	143—	68:	1,399,274
	145:	1,399,523		139:	1,399,215		17:	1,399,318	83—	2:	1,399,199		34:	1,399,336	144—	51:	1,399,021
3—	12:	1,399,481	30—	2:	1,399,051		49:	1,399,190	86—	9:	1,399,970	107—	51:	1,399,449		251:	1,399,187
		1,399,623		12:	1,399,103		109:	1,399,173			1,399,134		60:	1,399,149	145—	84:	1,399,216
4—	2:	1,399,352		18:	1,399,008	65—	89:	1,399,371		10:	1,399,087	108—	9:	1,399,315		48:	1,399,681
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	17:	1,399,342	33—	72:	1,399,230		7:	1,399,278		54:	1,399,397	110—	40:	1,398,977		113:	1,399,629
	65:	1,399,501		172:	1,399,314		9:	1,399,121			1,399,211		58:	1,399,689	146—	12:	1,399,476
7—	2:	1,399,665		180:	1,399,228	67—	19:	1,399,727		88:	1,398,980	111—	33:	1,399,677	148—	15:	1,399,044
8—	5:	1,399,357		208:	1,399,090	68—	10:	1,399,574			1,398,990	112—	63:	1,399,405	150—	34:	1,399,896
	6:	1,399,014			1,399,423		18:	1,399,451			1,399,339		109:	1,399,527	151—	15:	1,399,191
	19:	1,399,289		222:	1,399,085		31:	1,399,174		88:	1,399,091		203:	1,399,086	152—	2:	1,399,163
10—	20:	1,399,122	34—	12:	1,399,276		32:	1,399,398		92:	1,399,214		204:	1,399,056		3:	1,399,553
	122:	1,399,397			1,399,415			1,399,504	84—	35:	1,399,402	113—	14:	1,398,963		4:	1,399,179
12—	50:	1,399,508		39:	1,399,672			1,399,482		122:	1,398,988	114—	16:	1,399,263		5:	1,399,180
	54:	1,399,364	36—	60:	1,399,346	70—	14:	1,399,685		143:	1,399,114		16. 7:	1,399,195		8:	1,399,231
	78:	1,398,993		42:	1,399,542		15:	1,399,159		413:	1,399,322		27:	1,399,048			1,399,670
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	16:	1,399,368		63:	1,399,682		74:	1,399,167			1,399,698		50:	1,399,136			1,399,405
	37:	1,399,634		71:	1,399,153		128:	1,399,221		10:	1,399,305		114:	1,399,478		14:	1,399,658
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	60:	1,399,165	37—	19:	1,399,382	71—	9:	1,399,660		27:	1,399,265		57:	1,399,332		16:	1,398,975
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	86:	1,399,164	39—	48:	1,399,372		15. 5:	1,399,275	88—	16. 4:	1,399,567	119—	27:	1,399,659			1,399,430
	96:	1,399,616	40—	36:	1,399,210		20:	1,399,023		17:	1,399,208		48:	1,399,614			1,399,556
	99:	1,399,642		76:	1,399,409		33:	1,399,222		18. 7:	1,399,504		53:	1,399,716			1,399,612
	156:	1,399,627		77:	1,399,438		40:	1,399,088		24:	1,399,347		138:	1,399,204		18:	1,399,575
17—	30:	1,399,295		78:	1,399,444		54:	1,399,454			1,399,396	120—	18:	1,398,985		28:	1,399,220
18—	38:	1,399,128		149:	1,399,507		105:	1,399,407			1,399,506	121—	29:	1,399,223	153—	1:	1,399,101
	54:	1,399,587	42—	7:	1,399,224		111:	1,399,701	89—	1:	1,399,243		137:	1,399,131		27:	1,399,393
19—	7:	1,399,557	43—	27:	1,399,648	73—	32:	1,399,134		33:	1,399,119	122—	136:	1,399,035	154—	45. 9:	1,399,455
	9:	1,399,560		61:	1,399,630		54:	1,399,305			1,399,440		367:	1,399,192	155—	134:	1,399,464
	15:	1,399,025		90:	1,399,518		110:	1,399,117		38:	1,399,395		451. 2:	1,399,281		138:	1,399,465
20—	1.1:	1,399,309	44—	9:	1,399,227		111:	1,399,272		40:	1,399,674	123—	41:	1,399,723			1,399,466
	1.4:	1,399,717	45—	9:	1,399,000		166:	1,399,394	91—	44:	1,398,986		56:	1,399,666		180:	1,399,026
	4:	1,399,320		52:	1,399,097	74—	14:	1,399,669		45:	1,399,425		59:	1,399,202			1,399,029
	42:	1,399,328		82:	1,399,675		21:	1,399,284		51:	1,398,160		63:	1,399,354			1,399,030
	92:	1,399,153			1,399,706		26:	1,399,329		62. 5:	1,399,381		376:	1,399,679	156—	19:	1,399,678
22—	83:	1,399,532		97:	1,399,461			1,399,230	92—	20:	1,399,184		90:	1,399,283	157—	1:	1,399,185
	123:	1,399,252		102:	1,398,964			1,399,442		30:	1,399,653		169:	1,399,166	158—	28:	1,399,565
	203:	1,399,679		118:	1,399,156			1,399,443		51:	1,399,008			1,399,375		31:	1,399,010
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	3:	1,399,102	46—	4:	1,399,222		33:	1,399,038	93—	68:	1,399,051		173:	1,399,058			1,399,530
		1,399,151			1,399,263			1,399,445		77:	1,399,551		175:	1,399,617			1,399,656
		1,399,200		25:	1,399,133			1,399,645		81:	1,399,636		180:	1,399,625		46. 5:	1,398,999
	5:	1,398,991		27:	1,399,582		34:	1,399,573	94—	42:	1,399,681		187. 5:	1,399,506	124—	14:	1,399,537
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	10:	1,398,900		48:	1,399,247		35:	1,399,019		79:	1,399,189		40:	1,399,439		73:	1,399,218
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		1,399,345		61:	1,399,712			1,399,615			1,399,301		271. 2:	1,399,229		76:	1,399,626
		1,399,246		65:	1,399,463		40:	1,398,978		42:	1,399,021		296:	1,399,637		110:	1,399,178
		1,399,705		68:	1,399,071			1,399,107	98—	26:	1,399,036		314:	1,399,619	167—	120:	1,399,655
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	24:	1,398,998	49—	17:	1,399,547		58:	1,399,098		31:	1,399,135		341:	1,399,721			1,399,007
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		1,399,238	50—	23:	1,399,013		81:	1,399,054		8:	1,399,270	128—	62:	1,399,340		9:	1,399,604
		1,399,312	51—	8:	1,399,225			1,399,519		9:	1,399,359		72:	1,399,034	169—	10:	1,399,206
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	99:	1,399,092		5:	1,399,472		119:	1,399,075		184:	1,399,360	129—	1:	1,399,629		152:	1,399,605
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32: 1,399,151
234— 26: 1,399,032
235— 3: 1,399,301
79: 1,399,
236— 64: 1,399,710
257— 67: 1,399,052
263: 1,399,
269: 1,399,
238— 4: 1,399,043
25: 1,399,123
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263— 60: 1,399,
253— 122: 1,399,
254— 65: 1,399,
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257— 120: 1,399,
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259— 43: 1,399,
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271— 64: 1,399,
274— 1: 1,399,
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274— 85: 1,399,003
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92: 1,399,171
277— 15: 1,399,
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279— 126: 1,399,
280— 23.1: 1,399,
33.5: 1,399,
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255— 20: 1,399,
284— 8: 1,399,
287— 61: 1,399,
93: 1,399,
293— 210: 1,399,
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295— 56: 1,399,
296— 39: 1,399,
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301— 9: 1,399,
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308— 89: 1,399,
305— 9: 1,399,
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ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 13TH DAY OF DECEMBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

A.-G. Sceriet, Bleicherei, Filiale Arbon. (See Boeshard, Gustav A., assignor.)

A/S De Norske Saltverker. (See Bull, Henrik J., assignor.)

Abbey, Benjamin, Warrnambool, Victoria, assignor to Western District Co-Operative Produce and Insurance Company Limited, Melbourne, Victoria, Australia. Method of and apparatus for rendering timber not otherwise suitable usable for containers for comestible substances such as butter. No. 1,399,838; Dec. 13.

Abe, Seikichi, Detroit, Mich. Sleeve-holder. No. 1,399,730; Dec. 13.

Accessories Manufacturing Company. (See Bramming, Carl, assignor.)

Adams, Arthur H., Galion, Ohio, assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic switch for telephone-exchange systems. No. 1,399,728; Dec. 13.

Adams, Charles S., assignor of forty-nine one-hundredths to H. A. Jones, Stockton, Calif. Sprocket-guard attachment for bicycles. No. 1,400,131; Dec. 13.

Adams, George R., Hillsboro, Tex. Lifting-jack. No. 1,399,729; Dec. 13.

Adkins, William H., Kansas City, Kans. Automatic train-stopping, telephonic, and block-signal system. No. 1,400,201; Dec. 13.

Adolphus Auto Rent Company. (See Bower, James R., assignor.)

Agasatis, James B., Hana Maui, Hawaii. Drill. No. 1,400,132; Dec. 13.

Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Control system for compressors and the like. No. 1,400,133; Dec. 13.

Aitchison, William, *et al.* (See Welch, James G., assignor.)

Alborn, Frans G., Milford, assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Brake. No. 1,400,340; Dec. 13.

Alborn, Frans G., Milford, assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Tappet-valve mechanism. No. 1,399,839; Dec. 13.

Allan, Frank, Barrow-in-Furness, England. Bolt, rivet, and the like. No. 1,400,401; Dec. 13.

Allen, Edward B., Newtown, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Buttonhole-cutting mechanism for sewing-machines. No. 1,399,731; Dec. 13.

Allis-Chalmers Manufacturing Company. (See Newhouse, Ray C., assignor.)

Allis-Chalmers Manufacturing Company. (See Nicht, Alexander J., Jr., assignor.)

Allis-Chalmers Manufacturing Company. (See Sprado, Carl G., assignor.)

Allis-Chalmers Manufacturing Company. (See Williamson, Robert B., assignor.)

Alonso, John, Deborgia, Mont. Railway-switch. No. 1,399,914; Dec. 13.

American Bosch Magneto Corporation. (See Lang, Gustave J., assignor.)

American Marine Equipment Corporation. (See Davis, Howard C., assignor.)

American Optical Company. (See Hill, Harry W., assignor.)

American Snap Fastener Company. (See Roger, Eugene L., assignor.)

American Telephone and Telegraph Company. (See Toomey, John F., assignor.)

Anchor Cap & Closure Corporation. (See Scofield, Edgar, assignor.)

Anderson, Albert J., La Crosse, Wis. Tractor-coupling. No. 1,400,402; Dec. 13.

Anderson, Arthur E., Oak Park, Ill. Tab-attaching device for laces. No. 1,399,915; Dec. 13.

Anderson, Harry G. (See Erb, Lanious P., assignor.)

Anderson, Harry O., assignor to Norton Company, Worcester, Mass. Treatment of granular aluminous materials. No. 1,400,495; Dec. 13.

Anderson, Henry D., Filer, Idaho. Rotary internal-combustion motor. No. 1,400,255; Dec. 13.

Anderson, Victor A., Elmwood Park, Ill. Wrench. No. 1,400,184; Dec. 13.

Andrew, Thomas, Rochdale, England. Yarn package and the like and method and mechanism for winding it. No. 1,400,403; Dec. 13.

Angier, Edward H. (See Whelldon, William M., assignor.)

Arents, Fred B. (See Backhaus, A. A., and Arents.)

Armstrong, Harry Y., Syracuse, N. Y., assignor of one-half to W. L. Hall, Chicago, Ill. Wrapping-machine. No. 1,400,202; Dec. 13.

Aronson, Louis V., Newark, N. J. Liquid-dropper. No. 1,399,916; Dec. 13.

Ashby, William T., Bloomfield, N. J. Manufacturing oleomargarin. No. 1,400,341; Dec. 13.

Atkinson, Evelyn J. R., Melbourne, Victoria, Australia. Phonograph. No. 1,399,917; Dec. 13.

Atkinson, George W., Louisa, Ky. Steam-cooker. No. 1,400,475; Dec. 13.

Atmospheric Nitrogen Corporation. (See Scott, Wilfred W., assignor.)

Automotive Corporation, The. (See Woodhull, Llewellyn S., assignor.)

Autopoint Pencil Company. (See Keeran, C. R., and Kaufmann, assignors.)

Ayers, Fred L., Everett, and F. L. Mackenzie, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Mechanism for use in attaching shank-pieces to shoes. No. 1,399,732; Dec. 13.

Babcock & Wilcox Company, The. (See Jacobus, David S., assignor.)

Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Catalyzer. No. 1,400,203; Dec. 13.

Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Catalyzer and catalyzer apparatus. No. 1,400,204; Dec. 13.

Backhaus, Arthur A., Baltimore, and F. B. Arentz, Curtis Bay, Md., assignors to U. S. Industrial Alcohol Co. Making aldehydes and separating the same from the other products formed. No. 1,400,205; Dec. 13.

Bacon, Charles A., South Bend, Ind. Mechanism for raising and lowering working devices of agricultural implements. No. 1,400,342; Dec. 13.

Bacon Heater Manufacturing Company, The. (See Bacon, Joseph H., assignor.)

Bacon, Joseph H., Lakewood, assignor to The Bacon Heater Manufacturing Company, Cleveland, Ohio. Water-heating device. No. 1,399,918; Dec. 13.

Bacon, Joseph H., Lakewood, assignor to The Bacon Heater Manufacturing Company, Cleveland, Ohio. Water-heating device. No. 1,399,919; Dec. 13.

Bailey, Israel S. (See Simmons, Charles B., assignor.)

Bailey, Stephen L. (See Douglas, W. W., and Bailey.)

Baird, Fred J. (See Grob, A., Keck, and Baird.)

Baker, Linnaeus E., assignor to Wayne Oil Tank & Pump Company, Fort Wayne, Ind. Check-valve. No. 1,400,011; Dec. 13.

Balaza, John, Brantford, Ontario, Canada. Automatic door-opening device. No. 1,399,733; Dec. 13.

Baldwin Eraser Company, The. (See Baldwin, John H., assignor.)

Baldwin, John H., assignor to the Baldwin Eraser Company, Chicago, Ill. Erasing device. No. 1,399,734; Dec. 13.

Ball, Albert P., Royal Oak, assignor to Square D. Company, Detroit, Mich. Quick-break double-throw switch. No. 1,400,343; Dec. 13.

Bamford, Cyril J. (See Bamford, Joseph and C. J.)

Bamford, Joseph and C. J., Uttoxeter, England. Motor-driven agricultural implement, traction-engine, motor-lorry, and the like. No. 1,400,012; Dec. 13.

Bancroft, Frank H., assignor to P. Derby & Company, Gardner, Mass. Automatic turning-machine. No. 1,400,013; Dec. 13.

Barber, Charles C., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Key for fastening gear-wheels, raceways for ball-bearings, and the like to rotatable shafts. No. 1,400,014; Dec. 13.

Barber-Colman Company. (See Field, Chester E., assignor.)

Barbard, Frank, Louisville, Ky. Rag doll. No. 1,399,840; Dec. 13.

Barnes, Thornton B., New York, N. Y. Embalming deodorization. No. 1,400,344; Dec. 13.

Barratt, Arthur G. (See Rowe, John B., and Barratt.)

Barrett Company, The. (See Perry, Ray P., assignor.)

Bartels, Carl P. (See Benham, E. M., and Bartels.)

Baumann, Leon F., Fitzdale, Vt. Attachment for bag-making machines. No. 1,400,404; Dec. 13.

Baumgartner, Moses M., Freeport, Ill. Whole-rice meal. No. 1,399,920; Dec. 13.
Beagle, Fredrick. (See Mayer, W. I., and Beagle.)
Beatty, Wilbur L., South Butte, Mont. Ratchet-wrench. No. 1,400,256; Dec. 13.
Bechgaard, Poul, Bailey, Sweden. Stone-crusher. No. 1,400,257; Dec. 13.
Beckert, Richard E., Revere, Mass. Seal-press, &c. No. 1,399,735; Dec. 13.
Beeman, Lyle, assignor to Manufacturers' Hardware Corporation, Milwaukee, Wis. Lathe-center. No. 1,399,931; Dec. 13.
Belpedio, Jobby, Bridgeport, Conn. Reproducer. No. 1,399,922; Dec. 13.
Benham, Edgar M., Norwood, and C. P. Bartels, Hamilton, Ohio, assignors to The Mosler Lock Company, Covington, Ky. Time-lock mechanism for safes. No. 1,400,190; Dec. 13.
Benjamin Electric Manufacturing Company. (See Manau, Frederick A., assignor.)
Benjamins, Israel, Brooklyn, N. Y. Hoisting mechanism. No. 1,399,736; Dec. 13.
Bereis, Joseph A., and R. T. Crist, Detroit, Mich. Pistoning. No. 1,399,841; Dec. 13.
Berg, Edwin H., Eveleth, Minn. Weather-stripping. No. 1,400,206; Dec. 13.
Bergen, William V., assignor of one-half to A. C. Smith, Hillsboro, Oreg. Signaling device. No. 1,399,973; Dec. 13.
Berggren, Oscar W., Waltham, Mass. Can-opener. No. 1,400,406; Dec. 13.
Berthelsen, Anders L., Chicago, Ill. Fabric-cutting device. No. 1,399,924; Dec. 13.
Bethlehem Steel Company. (See Lachman, Maurice, assignor.)
Biggar, LeRoy A. and R. H., Oneida, N. Y. Automobile-signal. No. 1,400,136; Dec. 13.
Biggar, Rutherford H. (See Biggar, LeRoy A. and R. H.) Bill, Fred R. (See Brigden, Burt A., assignor.)
Binns, William H., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Treating rubber. No. 1,400,137; Dec. 13.
Binns, John B., Akron, assignor of one-fifth to S. J. Taylor, one-fifth to E. Wissinger, Cuyahoga Falls, one-fifth to F. Nolte, Akron, and one-fifth to Superior Rubber Mold & Equipment Company, Cuyahoga Falls, Ohio. Core for tire-casings. No. 1,400,258; Dec. 13.
Black, Frank B., Lincoln, Iowa. Automobile-headlight. No. 1,400,259; Dec. 13.
Blake, Charles C., Brookline, Mass. Speed-changing mechanism. No. 1,399,787; Dec. 13.
Blank, Herman C., Chicago, Ill. Building-tile. No. 1,400,407; Dec. 13.
Bliss, Graydon C. (See Bliss, Robert H. and G. C.)
Bliss, Robert H. and G. C., Syracuse, N. Y. Bush. No. 1,400,260; Dec. 13.
Bliven, Bertrand C., San Francisco, Calif. Grease-gun. No. 1,400,207; Dec. 13.
Block, Benjamin B., assignor of one-half to M. A. Scherflee, Los Angeles, Calif. Air-heater for internal-combustion engines. No. 1,400,015; Dec. 13.
Blose, Richard R., assignor to The Parkersburg Rig & Reel Company, Parkersburg, W. Va. Derrick-fitting. No. 1,400,408; Dec. 13.
Board, Edward, Philadelphia, Pa. Clenching nail or rivet. No. 1,400,409; Dec. 13.
Bobbrof, James D., Portland, Oreg. Power-saw. No. 1,400,496; Dec. 13.
Boddie, Clarence A. (See Bradshaw, W. M., and Boddie.)
Bohland, Carl P., St. Paul, Minn. Washing-bowl. No. 1,399,925; Dec. 13.
Bohr, Mathias F., Stickney, S. D. End-gate lock. No. 1,399,842; Dec. 13.
Boiell, George A., Kingman, Ariz. Power-transmission attachment for automobiles. No. 1,399,738; Dec. 13.
Bonk, Martin A., Manitowoc, Wis. Concrete tie and rail fastening. No. 1,399,926; Dec. 13.
Booth, Howard P., Montreal, Quebec, Canada. Fluid-valve. No. 1,400,411; Dec. 13.
Bosch, Robert, Aktiengesellschaft. (See Schäfer, Max, assignor.)
Bossert, Aloisius J. (See Heil, F. R., and Bossert.
Boshard, Gustav A., assignor to the Firm A.-G. Seeriet, Bleicherei, Filiale Arbon, Arbon, Switzerland. Producing wool-like effects on cotton fabrics. No. 1,400,016; Dec. 13.
Bosson, Pierre, assignor to Société Anonyme des Etablissements L. Blériot, Paris, France. Electric resistance. No. 1,400,410; Dec. 13.
Bott, George E., Mount Vernon, N. Y. Mixing and aerating device. No. 1,399,740; Dec. 13.
Boutell Manufacturing Company. (See Fish, Charles S., assignor.
Bowden, William C., Middle Village, N. Y. Press. No. 1,399,843; Dec. 13.
Bower, James R., assignor to Adolphus Auto Rest Company, Dallas, Tex. Automobile ornament. No. 1,400,017; Dec. 13.
Bowker, William R., Coronado, Calif. Aeronautical appliance for transporting and firing explosives. No. 1,400,261; Dec. 13.
Bradshaw, William M., Wilkinsburg, and C. A. Boddie, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electrical measuring instrument. No. 1,400,018; Dec. 13.
Bramming, Carl, Chicago, Ill., assignor to Accessories Manufacturing Company. Instrument-board lamp. No. 1,400,208; Dec. 13.
Bramson, Mogens L., Stafford, England. Spring, particularly for use in percussion-tools. No. 1,400,019; Dec. 13.
Brammer, Henry, Rosneath, Glasgow, Scotland. Caulking-machine. No. 1,400,138; Dec. 13.
Brettschneider, Christ. (See Kraklau, W. B., and Brettschneider.)
Bridges, Joseph E., Independence, Mo. Meat-tenderer. No. 1,400,413; Dec. 13.
Brigden, Burt A., East Cleveland, assignor of one-half to F. R. Bill, Cleveland, Ohio. Copying and enlarging camera. No. 1,400,412; Dec. 13.
Briggs & Stratton Company. (See Briggs, Stephen F., assignor.)
Briggs, Stephen F., assignor to Briggs & Stratton Company, Milwaukee, Wis. Regulator. No. 1,399,741; Dec. 13.
Brile, Alfred, Casper, Wyo. Tank. No. 1,400,845; Dec. 13.
Brock, Edward L., administrator. (See Brock, Matthias.)
Brock, Matthias, deceased. Boston, by E. L. Brock, administrator, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for pressing the soles of shoes. No. 1,399,742; Dec. 13.
Brody, Elias J., Roxbury, Mass. Supporting fixture for mirrors and the like. No. 1,399,743; Dec. 13.
Brophy, John F., Cleveland, Ohio. Folding armrest. No. 1,399,744; Dec. 13.
Brosnan, Margaret H., Washington, D. C. Vanity case for personal wear. No. 1,400,139; Dec. 13.
Brown & Bailey Company. (See Helm, Jacob C., assignor.)
Brown, Charles S., Syracuse, N. Y. Motor agricultural machine. No. 1,399,739; Dec. 13.
Brown, George E., Seattle, Wash. Mechanical baseball game. No. 1,400,020; Dec. 13.
Brubaker, Gordon M., Millersburg, Pa. Cylinder-boring reamer. No. 1,400,021; Dec. 13.
Brubaker, Marvel E., Des Moines, Iowa. Server for dining-tables. No. 1,400,209; Dec. 13.
Brush, Frederick F. (See Groat, L. E., and Brush.)
Bryant Electric Company, The. (See Reenoldt, Charles A., assignor.)
Buchsbaum, Samuel, Chicago, Ill. Belt-buckle. No. 1,399,745; Dec. 13.
Buck, David S., Pueblo, Colo. Toilet. No. 1,399,927; Dec. 13.
Buckley, Edwin W., Manchester, England. Siphonic controlling means for valves. No. 1,400,022; Dec. 13.
Buhoup, Harry C., Chicago, Ill., assignor to The McConnaway & Torley Company, Pittsburgh, Pa. Draft appliance for railway-cars. No. 1,400,210; Dec. 13.
Bull, Henrik J., assignor to A/S Norske Saltverker, Bergen, Norway. Treatment of liquids containing sulfate of lime. No. 1,399,845; Dec. 13.
Burney, Charles D., Alresford, England. Apparatus for offense or defense against submerged or partially submerged obstructions. No. 1,400,211; Dec. 13.
Burns, Patrick F., Baltimore, Md. Casing and piling construction. No. 1,399,846; Dec. 13.
Butler, Charles, Independence, Kans. Onion weeder. No. 1,400,414; Dec. 13.
California Almond Growers Exchange. (See Tucker, Theddeus C., assignor.)
Callahan, Charles F., Memphis, Tenn. Automobile-lock. No. 1,400,415; Dec. 13.
Callery, Thomas J., Jersey City, N. J. Car construction. No. 1,400,140; Dec. 13.
Cameron, Lloyd B., Somerville, assignor to A. F. Murphy, Boston, Mass. Stamping-dies. No. 1,400,416; Dec. 13.
Camp, William W., Stratford, Ontario, Canada. Treating peat-bogs to extract the water from the peat in the bogs. No. 1,399,847; Dec. 13.
Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Ore-car. No. 1,399,746; Dec. 13.
Campbell Wire Specialty Works, The. (See Swanson, Anton, assignor.)
Caproni, Gianni, Via Durini, Italy. Flying-machine. No. 1,400,262; Dec. 13.
Caracristi, Virginius Z., Bronxville, N. Y., assignor to The Gas Combustion Company, Pittsburgh, Pa. Gas-burner. No. 1,400,024; Dec. 13.
Cardullo, Forrest E. (See Hunt, H. W., and Cardullo.)
Carey, James A., Pittsburgh, Pa. Support for containers. No. 1,400,025; Dec. 13.
Carlisle, Fred R., Daylsville, R. I., assignor to J. M. Gilbert, New York, N. Y. Tread for vehicle-tires. No. 1,400,263; Dec. 13.
Carlisle Tire Corporation. (See McClurg, John S., assignor.)
Carlson, Adolph G., Chicago, Ill. Slag-disintegrator. No. 1,399,848; Dec. 13.
Carmean, James H., and H. F. and J. M. Roberts, Kansas City, Mo. Manifold stove. No. 1,400,023; Dec. 13.
Carr, John A., assignor to Marth Iron Works, Los Angeles, Calif. Irrigation-valve. No. 1,399,928; Dec. 13.
Carter, Fredrick, Ste. Agathe des Monts, Quebec, Canada. Dyeing-machine. No. 1,400,417; Dec. 13.
Casey, Herman A., Duluth, Minn. Electrode-holder. No. 1,400,418; Dec. 13.
Chadwick, Fletcher, Rochdale, England. Frame for doubling yarns. No. 1,400,026; Dec. 13.

Chadwick, Lee S., East Cleveland, assignor to The Cleveland Metal Products Company, Cleveland, Ohio. Drip-pan for stoves. No. 1,399,747; Dec. 13.
Chamberlin, Frederick G., Norfolk, England. Legging. No. 1,399,929; Dec. 13.
Chamberlain, Horace P., Buffalo, assignor to Standard Oil Company of New York, New York, N. Y. Obtaining motor-spirit and burning-oil from higher-boiling petroleum. No. 1,400,419; Dec. 13.
Champion Amusement Company, The. (See Strout, Noyes H., assignor.)
Chapin, David S., Chicago, Ill. Apparatus for applying granular material. No. 1,399,849; Dec. 13.
Charles, Louis A., Levallois-Perret, France. Injector for internal-combustion engines. No. 1,400,264; Dec. 13.
Cheney, Ansel J., Beverly, Mass. Dustproof connection for hot-air-furnace pipes. No. 1,399,748; Dec. 13.
Cincinnati Car Company, The. (See Elliott, Thomas, assignor.)
Clark, George F., Des Moines, Iowa. Combined intake and exhaust manifold. No. 1,399,930; Dec. 13.
Cleveland Metal Products Company, The. (See Chadwick, Lee S., assignor.)
Clouse, William L., assignor to The National Machinery Co., Tiffin, Ohio. Header for belt-machines. No. 1,399,850; Dec. 13.
Clowes, Peabody & Co. (See Wright, Sheldon T., assignor.)
Clutts, Joseph C., Fort Thomas, Ky. Electric-fan heater. No. 1,399,931; Dec. 13.
Coatalen, Louis, and H. C. M. Stevens, assignors of one-half to Sunbeam Motor Car Company, Limited, Wolverhampton, England. Clutch for power transmission. No. 1,400,265; Dec. 13.
Coddington, Harry W., Natick, Mass. Valve-spring compressor. No. 1,400,027; Dec. 13.
Cohen, Milton, New York, N. Y. Dental instrument. No. 1,400,028; Dec. 13.
Colley, Walter, Calgary, Alberta, Canada. Button. No. 1,400,430; Dec. 13.
Collins, John F., Philadelphia, Pa. Starter for automobile-engines. No. 1,400,266; Dec. 13.
Colomb, Henri Tavannes, Switzerland. Dial-fastener. No. 1,400,421; Dec. 13.
Columbia Machine Works & Malleable Iron Co. (See Wensinlls, Joseph T., assignor.)
Commonwealth Company. (See Sheehan, William M., assignor.)
Conant, Frederick W., Conway, Mass. Die. No. 1,399,932; Dec. 13.
Conklin, Oliver E., Boston, Mass. Headlight-lens. No. 1,399,749; Dec. 13.
Conklin, Oliver F., Detroit, Mich., assignor to Remy Electric Company, Anderson, Ind. Regulating system for dynamo-electric machines. No. 1,400,501; Dec. 13.
Conway, Thomas A. (See Hamilton, Louis D., assignor.)
Cooper, James C., Sr., assignor of one-half to H. M. Wharton, Altoona, Pa. Trolley-harp attachment. No. 1,400,476; Dec. 13.
Corrau, Marie J., Paris, France. Mercury-vapor lamp. No. 1,400,346; Dec. 13.
Corrall, Herbert, Helensburgh, Scotland, assignor to The Singer Manufacturing Company. Lock-stitch sewing-machine. No. 1,400,141; Dec. 13.
Cory, Charles & Son. (See Wood, Frank W., assignor.)
Cosgrove, [illegible]. (See Kraft, Edward L., assignor.)
Cox, Robert H., Savannah, Ga. Locomotive attachment. No. 1,400,267; Dec. 13.
Cravea, Henry L., Delton, Mich. Drive for trucks and the like. No. 1,399,933; Dec. 13.
Creasey, Edward F., Chicago, Ill. Automatic-feed memorandum device. No. 1,400,029; Dec. 13.
Crist, Raymond T. (See Borcis, J. A., and Crist.)
Crosland, Percy F. (See Hawley, A. E., Crosland and Dixon.)
Cross, Harry J., et al. (See Welch, James G., assignor.)
Crowlufte, Estel L., Kansas City, Mo. Wire-reel. No. 1,399,934; Dec. 13.
Crotto, Frank E., Dallas, Tex. Well-cleaning device. No. 1,400,030; Dec. 13.
Cudlipp, George R., assignor to Sunshine Amusement and Properties Co., Los Angeles, Calif. Amusement device. No. 1,400,497; Dec. 13.
Cully, William L., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Battery-charging system. No. 1,400,268; Dec. 13.
Curtis, Benjamin F., Poteau, Okla., assignor to Curtis Porcelain Pump Company. Twin-cylinder single-acting vertical-plunger pump. No. 1,400,422; Dec. 13.
Curtis, Benjamin F., Poteau, Okla. Double-acting duplex pump. No. 1,400,477; Dec. 13.
Curtis Porcelain Pump Company. (See Curtis, Benjamin F., assignor.)
Curtis, Milo L., Bloomington, Ind. Adjustable blackboard T-square. No. 1,399,935; Dec. 13.
Cutler-Hammer Mfg. Co., The. (See Cully, William L., assignor.)
Cyr, Alexandre, Iberville, Quebec, Canada. Pulley. No. 1,400,142; Dec. 13.
Dalton, James, Los Angeles, and B. C. De Meulle, Long Beach, Calif., assignors to Dalton Oven Co., Long Beach, Calif. Reel-oven. No. 1,399,750; Dec. 13.
Dalton Oven Co. (See Dalton, J., and De Meulle, B. C., assignors.)
Darrow, Burgess, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Breaker strip for tires. No. 1,400,269; Dec. 13.
Dart, John N., Richmond, Va. Pipe-shield. No. 1,399,851; Dec. 13.
Davidas, William J., Amsterdam, Netherlands. Apparatus for making dops to hold precious stones during grinding or polishing. No. 1,400,423; Dec. 13.
Davis, Charles H., Valley City, N. D. Fuel-press. No. 1,400,212; Dec. 13.
Davis, Howard C., Elizabeth, N. J., assignor to American Marine Equipment Corporation. Feed water heater, condenser, and the like. No. 1,400,347; Dec. 13.
Davis, Theron. (See Eggers, W. A., and Davis.)
Dean, Peter P., New York, N. Y. Recording device for signal systems. No. 1,400,270; Dec. 13.
De Glopper, John L. (See Olinger, T., and De Glopper.)
De Grazia, Ferdinando, Washington, D. C. Safety-razor. No. 1,400,031; Dec. 13.
Detchmann, Otto A., Willows, Calif. Building construction. No. 1,400,144; Dec. 13.
De Meulle, Bernard C. (See Dalton, J., and De Meulle.)
Denmire, Harold A., assignor to The General Tire & Rubber Company, Akron, Ohio. Collapsible tire-core. No. 1,399,936; Dec. 13.
Depning, Ansel C., Johnson City, N. Y. Cutting-block. No. 1,399,937; Dec. 13.
Denniston, Albert H., Fergus Falls, Minn. Concrete-wall form. No. 1,399,751; Dec. 13.
Denzel, William, et al. (See Raymond, Le Roy, assignor.)
Derby, F., & Company. (See Bancroft, Frank H., assignor.)
Derby, Samuel E., assignor to Schutte & Koerting Company, Philadelphia, Pa. Valve structure. No. 1,400,424; Dec. 13.
Deschamps, Joseph, Chesterfield, Va. Skid for motor-vehicles. No. 1,400,478; Dec. 13.
Deuel, Harry A. (See Van Fossen, Isaiah C., assignor.)
Dial, Frank, Washington, D. C. Shoe construction. No. 1,400,143; Dec. 13.
Diamond, Louis, New York, N. Y. Wardrobe-trunk. No. 1,399,752; Dec. 13.
Diamond Match Company, The. (See Wright, Jacob P. and C. F., assignors.)
Dickey, Daniel A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Self-tightening propeller-hub. No. 1,400,032; Dec. 13.
Dickey, Daniel A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Propeller. No. 1,400,033; Dec. 13.
Dickinson, William, Detroit, Mich. Detachable inclosure for motor-vehicles. No. 1,400,271; Dec. 13.
Dilley, Arseno J. Muir, Mich. Grease-gun. No. 1,400,034; Dec. 13.
Dixon, Amos F., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,400,035; Dec. 13.
Dixon, Francis G. (See Hawley, A. E., Crosland, and Dixon.)
Doble, John A., assignor to Doble Laboratories, San Francisco, Calif. Fuel-control system for burners. No. 1,399,938; Dec. 13.
Doble, John A., assignor to Doble Laboratories, San Francisco, Calif. Liquid-fuel burner. No. 1,399,939; Dec. 13.
Doble Laboratories. (See Doble, John A., assignor.)
Dobrick, Frank, Cleveland, Ohio. Container-opener. No. 1,400,425; Dec. 13.
Dobson, Frederick, Bell Center, Wis. Coin-controlled liquid-dispensing apparatus. No. 1,400,848; Dec. 13.
Dorer, Primus O., assignor to S. Smith & Sons (Motor Accessories), Limited, London, England. Electric lamp for vehicles. No. 1,399,940; Dec. 13.
Douglas, William W., and S. L. Bailey, Bristol, England. Valve-operating mechanism for internal-combustion engines. No. 1,399,941; Dec. 13.
Dow, Leander A., assignor to Pacific Car & Foundry Co., Seattle, Wash. Trailer. No. 1,400,349; Dec. 13.
Dowd, John A., Fall River, Mass. Boiler staybolt construction. No. 1,399,942; Dec. 13.
Doyle, Joseph H., Auburn, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-channelling-machine. No. 1,399,753; Dec. 13.
Drake, Warren C., Inwood, N. Y. Furnace. No. 1,400,036; Dec. 13.
Drexel, William R. (See Henderson, Daniel D., assignor.)
Drybrough, Thomas B., Kensington, London, England. Coin-freed apparatus. No. 1,400,037; Dec. 13.
Duncan, Arthur L. (See Forry, Charles E., assignor.)
Duncan, Thomas S. (See Pierson, R. K., and Duncan.)
Duncan, Wayne A., Chicago, Ill. Kitchen-cabinet. No. 1,400,145; Dec. 13.
Dunham, George W., assignor to The Militor Corporation, New York, N. Y. Lubricating system. No. 1,399,943; Dec. 13.
Duplessis, René E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,399,754; Dec. 13.
Dyrssen, Waldemar, New York, N. Y. Regulator for furnace-electrodes. No. 1,399,852; Dec. 13.
Earl, Harley J., Los Angeles, Calif. Windshield. No. 1,400,479; Dec. 13.

Eastman Kodak Company. (See Folmer, William K., assignor.)
Eastman Kodak Company. (See Buttan, J. A., and Hutchings, assignors.)
Eaton, Orrin O., Watsonville, Calif. Berry-tray. No. 1,400,426; Dec. 13.
Egerton, Henry C., Passaic, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Cut-off terminal. No. 1,400,458; Dec. 13.
Egerton, Henry C., Ridgewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,400,050; Dec. 13.
Eggers, Walter A., Brooklyn, and T. Davis, New York, N. Y.; said Eggers assignor to said Davis. Making hollow rubber articles. No. 1,400,146; Dec. 13.
Ehrhart, Anthony, Blue Island, Ill. Grease-cup. No. 1,399,944; Dec. 13.
Elevator Safety Appliance Company. (See Groat, L. E., and Brush, assignors.)
Elliott, Stephen A., Elmira, N. Y. Starter for engines. No. 1,400,040; Dec. 13.
Elliott, Harold F., Palo Alto, assignor to A. Taylor, San Francisco, Calif. Radiotelegraphy. No. 1,399,945; Dec. 13.
Elliott, Lyman M., Indianapolis, Ind. Saw-filing machine attachment. No. 1,400,427; Dec. 13.
Elliott, Thomas, assignor to The Cincinnati Car Company, Cincinnati, Ohio. Railway-car. No. 1,399,755; Dec. 13.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Concrete coating and the like. No. 1,400,041; Dec. 13.
Ellis-Foster Company. (See Ellis, Carleton, assignor.)
Ellis, Russell E., assignor to Hamilton Manufacturing Company, Chicago, Ill. Chuck for machine-tools. No. 1,400,272; Dec. 13.
Ellison, Earl J., Maywood, assignor to Ellison Engineering & Furnace Co., Chicago, Ill. Air-heater. No. 1,399,750; Dec. 13.
Ellison Engineering & Furnace Co. (See Ellison, Earl J., assignor.)
Elwell, Cyril F. (See Lane, Charles J., assignor.)
Emerson, Victor H., New York, N. Y. Phonographic tablet. No. 1,399,757; Dec. 13.
Emmons, Eugene E. (See Emmons, Howard C. and E. E.)
Emmons, Howard C. and E. E., Syracuse, N. Y. Mower. No. 1,400,320; Dec. 13.
Enright, Barney P., Perry, Okla. Print drier. No. 1,400,273; Dec. 13.
Enterprise Railway Equipment Company. (See Campbell, Argyle, assignor.)
Erb, Arthur A., Denver, Colo. Artificial limb. No. 1,400,042; Dec. 13.
Erb, Lasbous P., assignor of one-half to H. G. Anderson, Seattle, Wash. Resilient wheel. No. 1,400,274; Dec. 13.
Erickson, Frederic W., New York, N. Y. Connecting link or shackle. No. 1,399,946; Dec. 13.
Eustice, Alfred L., Chicago, Ill. Safety-fuse. No. 1,400,480; Dec. 13.
Evans, Edward F., Phoenix, Ariz. Ladder. No. 1,400,171; Dec. 13.
Ewing, Harry E., Smithfield, Pa. Antirattling device. No. 1,400,482; Dec. 13.
Fairchild, Horatio J. (See Warner, William D., assignor.)
Falco, Frank T., assignor to Pacific Car & Foundry Co., Seattle, Wash. Two-wheeled trailer. No. 1,400,351; Dec. 13.
Farnsworth, William F., Washington, D. C. Nut-lock. No. 1,400,213; Dec. 13.
Federal Stamping Company. (See Olinger, T., and De Glopper, assignors.)
Federal Stamping Company. (See Olinger, Thomas, assignor.)
Fehr, Carl F., Arlington, Kans. Lever-lock for end-gates. No. 1,400,483; Dec. 13.
Ferguson, Charles H., Valhalla, N. Y., assignor to Home Electric Lighting Company, East Orange, N. J. Portable electric light and power plant. No. 1,399,889; Dec. 13.
Ferrall, John J., Ridgewood, N. J., P. J. Sundheim, Cincinnati, Ohio, and C. H. Trelawny, Queens, N. Y., assignors to National Biscuit Company, New York, N. Y. Container. No. 1,399,947; Dec. 13.
Ferrall, John J., Ridgewood, N. J., assignor to National Biscuit Company, New York, N. Y. Container. No. 1,399,948; Dec. 13.
Field, Chester E., Boston, Mass., assignor, by mesne assignments, to Barber Colman Company, Rockford, Ill. Apparatus for separating heddles or the like. No. 1,399,854; Dec. 13.
Field, Crosby, Yonkers, N. Y., and W. E. Newell, Bayonne, N. J., assignor to National Aniline & Chemical Co., Inc. Seal for containers. No. 1,399,949; Dec. 13.
Fierlein, Albert L., Batavia, Ill. Swimming doll. No. 1,399,855; Dec. 13.
Firestone Tire and Rubber Company, The. (See Bines, William H., assignor.)
Fish, Charles S., assignor to Boutell Manufacturing Co., Rochester, N. Y. Fruit-slicer. No. 1,399,950; Dec. 13.
Fisk, Charles, Flushing, N. Y. Barrel-filler. No. 1,400,375; Dec. 13.
Fiske & Company. (See Fiske, Jonathan P. B., assignor.)
Fiske, Jonathan P. B., Newton, Mass., assignor to Fiske & Company, Inc. Channel-brick. No. 1,400,404; Dec. 13.
Flo Empire Double Pivot Last Company. (See Schuster, John L., assignor.)
Fitzpatrick, John B., New York, N. Y. Hatpin. No. 1,400,147; Dec. 13.
Flanders, Warren B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Co. Apparatus for governing motive fluid. No. 1,399,758; Dec. 13.
Fletcher, Harold W., assignor to Hughes Tool Company, Houston, Tex. Making bearings. No. 1,399,856; Dec. 13.
Flood, Henry L., Ponca City, Okla. Spark-plug. No. 1,400,276; Dec. 13.
Folmer, William K., assignor to Eastman Kodak Company, Rochester, N. Y. Aviator's camera. No. 1,400,277; Dec. 13.
Forry, Charles E., assignor of one-half to A. L. Duncan, Oakland, Calif. Cherry-steemer. No. 1,400,352; Dec. 13.
Forsyth, George H., Chicago, Ill. Forming disk wheels. No. 1,399,951; Dec. 13.
Foster, Q. T., et al. (See Pritchett, Joseph F., assignor.)
Fougner, Hermann, New York, N. Y. Reinforcing-bar. No. 1,400,278; Dec. 13.
Fraidon, Jos., Newark, N. J., assignor to B. Schniger, New York, N. Y. Automobile radiator. No. 1,400,403; Dec. 13.
Frank, Maurice H., Anthon, Iowa. Mud-hook. No. 1,399,952; Dec. 13.
Fraser, John W., Cleveland, Ohio. Electric heating-plug. No. 1,400,354; Dec. 13.
Frederick, Louis T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Heat-regulating attachment for tube machines. No. 1,400,043; Dec. 13.
Freeman, Harry A., Detroit, and F. Zesker, Highland Park, assignors to Square D Company, Detroit, Mich. Electric switch. No. 1,400,278; Dec. 13.
Freeman, Harry A., Detroit, and F. Zesker, Highland Park, assignors to Square D Company, Detroit, Mich. Electric switch. No. 1,400,284; Dec. 13.
Freeman, Harry A., Detroit, and F. Zesker, Highland Park, assignors to Square D Company, Detroit, Mich. Electric switch. No. 1,400,2811; Dec. 13.
Fresen, Carl J., Elyria, Ohio. Bee. No. 1,400,355; Dec. 13.
French, Joseph H., Petersboro, Ontario, Canada. Dental casting machine. No. 1,400,044; Dec. 13.
Frerst, Arthur L., Ensley, Ala. Trolley-clamp. No. 1,399,857; Dec. 13.
Fresen, Alonzo A., Columbus, Ohio. Soldering-iron. No. 1,400,148; Dec. 13.
Fuchs, Ernest, Paris, assignor to L. Renault, Billancourt, France. Chassis for automobile vehicles. No. 1,400,045; Dec. 13.
Fuchs, Karl, Atco, N. J. Test-glasses for hemoglobinometers. No. 1,400,280; Dec. 13.
Fulenwider, Harry W., St. Louis Mo. Irremovable cap for containers. No. 1,399,749; Dec. 13.
Fulton, Robert R., Indian Head, Md. Pyrotechnic composition. No. 1,399,953; Dec. 13.
Fulton, Robert R., Indian Head, Md. Pyrotechnic composition. No. 1,399,954; Dec. 13.
Gaccio, Claude E., Madison, Wis. Vegetable-paring machine. No. 1,399,855; Dec. 13.
Gage, Daniel W., Pritchett, Tex. Plow. No. 1,400,429; Dec. 13.
Gall, Charles H., assignor to The Shutt Manufacturing Company, Cincinnati, Ohio. Bed-spring. No. 1,400,305; Dec. 13.
Galt, Hubert, Lake Forest, Ill. Device for making coffee, tea, or similar beverages. No. 1,400,214; Dec. 13.
Gans, Leonard S., New York, N. Y. Device for tightening and securing round-wire box-strapping. No. 1,400,046; Dec. 13.
Gargett, George I., Mount Pleasant, Mich. Tractor transmission mechanism. No. 1,400,048; Dec. 13.
Garceau, G. H., Swissvale, and C. A. M. Weber, Edgewood Park, Pa., assignors to Westinghouse Electric & Manufacturing Company. Single-phase alternating-current commutator-motor. No. 1,400,047; Dec. 13.
Garl, Manious, Akron, Ohio. Fire-alarm system. No. 1,399,760; Dec. 13.
Garland, Harrison W., Bay City, Mich. Mechanical golf-teeching device. No. 1,399,761; Dec. 13.
Garth, George A., Nuwara Eliya, Ceylon. Signal for use on vehicles. No. 1,399,935; Dec. 13.
Garver, Joseph P., Charleston, Ill. Radiator-protector. No. 1,399,859; Dec. 13.
Garwood, Annie M., deceased, by order of court and mesne assignments, to F. B. Waller, Kansas City, Mo. Baby toilet-cabinet. No. 1,399,956; Dec. 13.
Gas Combustion Company, The. (See Caracristi, Virginius Z., assignor.)
Gates, Philetus W., assignor to Hanna Engineering Works, Chicago, Ill. Molding-machine. No. 1,400,282; Dec. 13.
General Electric Company. (See Payne, John H., Jr., assignor.)
General Petroleum Corporation. (See Prutzman, P., and Goodwin, assignors.)
General Tire & Rubber Company, The. (See Demmler, Harold A., assignor.)
Gerace, Gaetano, Windsor, Ontario, Canada. Willow-bark-stripping machine. No. 1,399,937; Dec. 13.
Gilbert, Jacob J., Shaw, Oreg. Hoof-trimming tool. No. 1,399,958; Dec. 13.

Gilbert, Joseph M. (See Carlisle, Fred B., assignor.)
Gillespie-Eden Corporation. (See Welhart, Charles, assignor.)
Gilson, Henry R., New Rochelle, N. Y., assignor to The Mechanical Rubber Company. Submarine telephonic transmitter. No. 1,400,283; Dec. 13.
Gindre, Eugène, assignor to Société Anonyme Le Carbone, Levallois-Perret, France. Cable-securing device particularly applicable to the fixation of electric cables on car-bon-brushes. No. 1,400,357; Dec. 13.
Glass, Perley R., Brookline, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Button-attaching machine. No. 1,399,762; Dec. 13.
Glass, Perley R., Brookline, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Skiving-machine. No. 1,399,763; Dec. 13.
Gleeson, Thomas W., Boston, Mass. Electrotherapeutic apparatus. No. 1,400,149; Dec. 13.
Glynn, Desmond F., Randwick, New South Wales, Australia. Automatic forging machine for the manufacture of horseshoes and other articles. No. 1,399,764; Dec. 13.
Goble, Paul J., Newark, N. J. Picture-hanger. No. 1,400,150; Dec. 13.
Goddard, Frank, London, England. Hammock. No. 1,400,349; Dec. 13.
Goldu, George, Winchester, and F. L. Mackenzie, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for inserting fastenings. No. 1,399,765; Dec. 13.
Golvin, Mark, Brooklyn, N. Y. Resilient material. No. 1,400,151; Dec. 13.
Goodfellow, John H., Buffalo, N. Y. Boiler-flue cleaner. 1,400,152; Dec. 13.
Goodrich, B. F., Company, The. (See MacDonald, Frank J., assignor.)
Goodrich, B. F., Company, The. (See Pierson, Robert M., assignor.)
Goodwin, Guy L. (See Prutzman, P., and Goodwin.)
Goodyear Tire & Rubber Company, The. (See Darrow, Horace, assignor.)
Goodyear Tire & Rubber Company, The. (See Greenough, Gordon B., assignor.)
Goodyear Tire and Rubber Company, The. (See Humphrey, Dwight E., assignor.)
Goodyear Tire & Rubber Company, The. (See North, Clayton O., assignor.)
Gorman, James, Chicago, Ill. Violin and producing the same. No. 1,400,153; Dec. 13.
Gould, Benjamin A., Toronto, Ontario, Canada, assignor to Merrell-Soule Company, Syracuse, N. Y. Treating substance. No. 1,400,454; Dec. 13.
Grace, Bertram B., Upminster, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,400,050; Dec. 13.
Gray, G. A., Company, The. (See Hunt, Howard W., assignor.)
Green, Edward A., Chicago, Ill. Nut-lock. No. 1,400,154; Dec. 13.
Green, Herbert, San Antonio, Tex. Air-brake and starter for automobiles. No. 1,399,860; Dec. 13.
Greenburg, George G., New York, N. Y. Name-plate attachment. No. 1,400,155; Dec. 13.
Greenough, Gordon B., deceased, by N. B. Greenough, administratrix, Malden, Mass., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Fabric backing for composition soles. No. 1,400,428; Dec. 13.
Greenough, Nellie B., administratrix. (See Greenough, Gordon B.)
Gregg Company, The. (See Gregg, Louis D., assignor.)
Gregg, Louis D., assignor to The Gregg Company, Limited, Hackensack, N. J. Car-coupling. No. 1,400,051; Dec. 13.
Griffin, James T., Oak Park, and W. A. Timm, Berwyn, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Electrically-heated soldering-iron. No. 1,400,156; Dec. 13.
Griffin, James W. H., Altona, Mich. Car-fender. No. 1,400,052; Dec. 13.
Grimme, Natalis & Co., Commanditgesellschaft Auf Actien. (See Schaller, Carl, assignor.)
Groat, Luther E., and F. F. Brush, Los Angeles, Calif., assignors to Elevator Safety Appliance Company. Elevator-door-operating device. No. 1,400,215; Dec. 13.
Grob, Arnold, Cleveland, C. B. Keck, Wickliffe, and F. J. Baird, East Cleveland, assignors to The Homer Commutator Company, Cleveland, Ohio. Means for assembling commutators. No. 1,400,157; Dec. 13.
Groff, Horace, Wilmington, Del. Coin-counting device. No. 1,400,053; Dec. 13.
Grosjean, James E., Lima, Ohio. Sole for boots and shoes. No. 1,399,766; Dec. 13.
Groves, Samuel E., Felling-on-Tyne, and T. W. H. Ward, London, England. Dope or varnish used in aeroplane construction. No. 1,400,430; Dec. 13.
Gruler, Morris M., assignor to Pathe Freres Phonograph Company, New York, N. Y. Chuck for phonograph-styli. No. 1,400,158; Dec. 13.
Guillochin, Alphonse, assignor of one-half to J. Guimet, Fleurieu-sur-Saône, France. Manufacture of ultramarine. No. 1,400,431; Dec. 13.
Guimet, Jean. (See Guillochin, Alphonse, assignor.)
Gunderman, William J., New York, N. Y. Antiskid device. No. 1,400,358; Dec. 13.
Gustafson, Isaac. (See Torr, John, assignor.)
Gustiana, Anthony, Sudbury, Ontario, Canada. Lifting-jack. No. 1,400,054; Dec. 13.
Gysel, Max E., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Shaft-bearing. No. 1,400,055; Dec. 13.
Hadley, Kaletas, Kansas City, Mo. Bust-supporter. No. 1,400,056; Dec. 13.
Hagerman, Charles W., Champaign, Ill. Clothes-drier. No. 1,400,359; Dec. 13.
Hahn, George F., Cleveland, Ohio. Table. No. 1,400,432; Dec. 13.
Hake, John N., Kirklin, Ind. Building construction. No. 1,400,284; Dec. 13.
Hall, William L. (See Armstrong, Harry Y., assignor.)
Halstead, Joseph L. (See Primmer, B. J., and Halstead.)
Hamilton, Louis D., assignor of one-half to T. A. Conway, Titusville, Fla. Car-fender. No. 1,400,057; Dec. 13.
Hanna Engineering Works. (See Gates, Philetus W., assignor.)
Hamilton Manufacturing Company. (See Ellis, Russell E., assignor.)
Hamilton Manufacturing Company. (See Miller, Edwin P., assignor.)
Hansen, Hans, Kansas City, Mo. Wringer. No. 1,400,433; Dec. 13.
Hansen, Hans C. (See Reimer, Jorgen A., assignor.)
Hanson, Bengt M. W., Hartford, Conn. Ball-bearing. No. 1,399,959; Dec. 13.
Harding, William, Cleveland, Ohio. Pipe-hanger. No. 1,399,960; Dec. 13.
Hart, Mildred L., administratrix. (See Lowry, Frederick S.)
Hart, William E., Bowden, Okla. Wrench. No. 1,400,285; Dec. 13.
Hartbauer, August W. L., Detroit, Mich. Cellular radiator. No. 1,399,767; Dec. 13.
Hartung, Edmund, Jersey City, N. J. Automatic butter-dispenser. No. 1,399,768; Dec. 13.
Harvey Frost & Company. (See Welch, Walter H., assignor.)
Harvey, Louis B., assignor to Harvey Rim & Wheel Company, Inc., Buffalo, N. Y. Fixed rim and locking-ring structure for demountable rims. No. 1,399,961; Dec. 13.
Harvey, Louis B., Buffalo, N. Y. Projectile-thrower. No. 1,400,058; Dec. 13.
Harvey Rim & Wheel Company. (See Harvey, Louis B., assignor.)
Harvey, Thomas C., Carrollton, Miss. Wheel. No. 1,400,434; Dec. 13.
Hawkins, Alda F., assignor to Standard Battery Manufacturing Company, Fort Worth, Tex. Battery terminal. No. 1,400,059; Dec. 13.
Hawley, Alfred E., Hinckley, P. F. Crosland, Halifax, and F. G. Dixon, Cheadle Hulme, England. Machine for mercerizing hose and other knitted fabrics. No. 1,400,159; Dec. 13.
Haughton Elevator & Machine Co., The. (See Thurston, Ernest B., assignor.)
Hechler, Valentine, assignor to Wilson & Co. Inc., Chicago, Ill. Apparatus for manufacturing shortening material. No. 1,400,216; Dec. 13.
Heil, August, Hancock, Minn. Two-way pulley. No. 1,400,435; Dec. 13.
Heil, Frederick R., and A. J. Roesert, Rochester, N. Y. Indicator. No. 1,400,436; Dec. 13.
Helm, Jacob C., assignor to Brown & Bailey Company, Philadelphia, Pa. Knockdown box. No. 1,400,060; Dec. 13.
Heinemann, Albert, Berlin-Wilmersdorf, Germany. Producing a substitute for raw coffee-beans. No. 1,400,161; Dec. 13.
Heinemann, Albert, Berlin-Wilmersdorf, Germany. Producing malted pearl-barley. No. 1,400,160; Dec. 13.
Heller, Samuel D., and L. Herron, Pontiac, Mich. Automobile brake mechanism. No. 1,400,286; Dec. 13.
Hemphill Company. (See Houck, William A., assignor.)
Henderson, Daniel D., assignor of one-half to W. R. Drexel, Houston, Tex. Valve-cleaner. No. 1,399,962; Dec. 13.
Henderson, Edwin L., assignor to The Kemper Thomas Company, Norwood, Ohio. Bag. No. 1,400,490; Dec. 13.
Henry Wilhelm Company. (See Maussner, Frederick, assignor.)
Herron, Linton. (See Heller, S. D., and Herron.)
Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Bifocal. No. 1,400,061; Dec. 13.
Hill, Henry C., Cincinnati, Ohio. Automobile-speed controller. No. 1,400,062; Dec. 13.
Hinton, Thomas, assignor to H. Merton, Reading, England. Tool-holder. No. 1,400,063; Dec. 13.
Hodgkinson, Francis, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Co. Soldering-strip. No. 1,399,769; Dec. 13.
Hoff, Matthew C., Hutchinson, Kans. Harvester-pitman. No. 1,399,861; Dec. 13.
Hogg, William L., Denver, Colo. Telegoniometer. No. 1,399,963; Dec. 13.
Holden Company, The. (See Ord, Lewis C., assignor.)
Holley, George M., Detroit, Mich. Exhaust-heated oil-vaporizer. No. 1,400,287; Dec. 13.
Holmberg, Axel, South Ecklin, via Terang, Victoria, Australia. Portable power-driven crosscut-saw. No. 1,400,064; Dec. 13.

Baines, Thomas C., San Francisco, Calif. Powder-blower. No. 1,400,142; Dec. 13.

Bauer Electric Lighting Company. (See Ferguson, Charles H., assignor.)

Bisner Commutator Company, Ltd. (See Grob, A., Kark, and Baird, assignors.)

Borgen, Thomas D., Jr., Orangeburg, S. C. Mosquito-bar hand-rest. No. 1,400,237; Dec. 13.

Horton, Bryson D., Detroit, Mich. Electrical switch. No. 1,400,234; Dec. 13.

Horton, Bryson D., Detroit, Mich. Quick-break double-throw switch. No. 1,400,235; Dec. 13.

Hosack, William A., Reading, Pa., assignor to Hemphill Company, Pawtucket, R. I. Knitting mechanism, instrument therefor, and knitting. No. 1,400,140; Dec. 13.

House, Henry A., Jr., Buffalo, N. Y., assignor to Wire Wheel Corporation of America. Stamping and truing wire wheels. No. 1,399,770; Dec. 13.

Howe, William G., Des Moines, Iowa. Tractor structure. No. 1,400,218; Dec. 13.

Hoyt, Charles H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Work-supporting means for shoe-machines. No. 1,399,773; Dec. 13.

Hubricht, Paul O., Cleveland, Ohio. Holding-tool for sharpening scrapers, &c. No. 1,400,065; Dec. 13.

Huck, Adolf, Nuremberg, Bavaria, Germany. Construction-toy set. No. 1,400,066; Dec. 13.

Hudson, John W., Brooklyn, N. Y. Internal-combustion engine. No. 1,400,485; Dec. 13.

Huegerich, George W., Breda, Iowa. Operating-trough. No. 1,400,486; Dec. 13.

Huntar, Andrew, Dayton, Ohio. Expansible core. No. 1,400,219; Dec. 13.

Huff, Russell C., Eldorado, Kans. Feeding device for liquid fuel. No. 1,399,964; Dec. 13.

Huffer, John C., Sterling, Colo. Locking device for nuts. No. 1,399,862; Dec. 13.

Hughes, Howard R., Houston, Tex. Reamer. No. 1,399,863; Dec. 13.

Hughes, James C., Fort Morgan, Colo. Pipe-buck. No. 1,400,067; Dec. 13.

Hughes Tool Company. (See Fletcher, Harold W., assignor.)

Hughes Tool Company. (See Wadsworth, Frank L. O., assignor.)

Hull, Salmon, Mfg. Co. (See Salmon, Edward W., Jr., assignor.)

Humphrey, Dwight E., assignor to The Goodyear Tire and Rubber Company, Akron, Ohio. Method and apparatus for dusting articles. No. 1,400,[illegible]; Dec. 13.

Hunt, Chester, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Last and device for attaching heels. No. 1,[illegible]; Dec. 13.

Hunt, Howard W., and F. E. Carlisle, Cincinnati, Ohio. Ratchet mechanism. No. 1,[illegible]; Dec. 13.

Hunt, Howard W., assignor to The G. A. Gray Company, Cincinnati, Ohio. Transmission mechanism for machine-tools. No. 1,400,361; Dec. 13.

Hunter, Herbert L., Cleveland, Ohio. Plumb-level and protractor. No. 1,400,060; Dec. 13.

Hurst, Henry H., New York, N. Y. Waterproofing material and making the same. No. 1,400,164; Dec. 13.

Hutchings, Charles E. (See Ruttan, A. A., and Hutchings.)

Hysell, Elmer, College Hill., assignor of one-half to C. E. Buble, Rochester, Pa. Sadiron. No. 1,400,437; Dec. 13.

Inman Manufacturing Company. (See Joslin, Frank M., assignor.)

International Motor Company. (See Pellizzoni, Joseph A., assignor.)

Irwin, William J., Tacoma, Wash. Typographical machine. No. 1,400,076; Dec. 13.

Jablon, Oscar E., Plainfield, N. J. Locking device. No. 1,400,487; Dec. 13.

Jacobsen, Olaf B., Birmingham, England. Extrusion-press. No. 1,400,071; Dec. 13.

Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam-superheater. No. 1,399,773; Dec. 13.

Janicke, Max, Halle-on-the-Saale, Germany. Feed device for the mandrels of machine-tools of all kinds. No. 1,400,072; Dec. 13.

Jaquette, Harry Phillips, Pa. Changeable sign. No. 1,400,488; Dec. 13.

Jewell, Herbert S., deceased, by L. Jewell, executrix, Brooklyn, N. Y. Purifying middlings and other materials. No. 1,400,165; Dec. 13.

Jewell, Lida, executrix. (See Jewell, Herbert S., assignor.)

Johannes, Nicholas A., Port Washington, Wis. Bean-snipper. No. 1,400,290; Dec. 13.

Johnsen, Arthur, Saskatoon, Saskatchewan, assignor of forty-five per cent. to J. A. MacDonald, Drumheller, Alberta, Canada. Base-supported railway-rail joint. No. 1,400,291; Dec. 13.

Johnson, John A., *et al.* (See Pritchett, Joseph F., assignor.)

Johnson, Joseph, Menlo Park, Calif. Game. No. 1,[illegible]; Dec. 13.

Johnson Josiah F., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control mechanism. No. 1,399,774; Dec. 13.

Johnson, Kenneth S., Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Common-battery substation. No. 1,399,775; Dec. 13.

Johnson, Robert L., Nashville, Tenn. Electric railway-switch. No. 1,400,492; Dec. 13.

Jones, Arthur L., administrator. (See Smith, Christian F.)

Jones, Howard A. (See Adams, Charles S., assignor.)

Jones, Thomas M., Cassaway, N. Y., Agricultural implement. No. 1,400,073; Dec. 13.

Jusling, Frank M., assignor to Jusling Manufacturing Company, Inc., Amsterdam, N. Y. Folding mechanism. No. 1,400,[illegible]; Dec. 13.

Justice, John D., Harrisville, Ind. Incubator-heating system. No. 1,[illegible]; Dec. 13.

Juttner, Pietsch, Akt.-Ges. (See Schaller, Otto, assignor.)

Kay, Raymond. (See Montgomerie, J. F., and Kay.)

Kerr, Andrew J., and D. F. Weis, Buckhannon, W. Va. Crane-hook. No. 1,400,[illegible]; Dec. 13.

Karlsen, Peter, Beaumont, Tex. Power-hammer. No. 1,400,154; Dec. 13.

Karp, Joseph H., New York, N. Y. Shoe polishing machine. No. 1,400,440; Dec. 13.

Karrakis, Clara, administratrix. (See Karrakis, Joseph, assignor.)

Karrakis, Joseph, deceased, Newark, N. J.; Clara Karrakis, administratrix, Dedpan. No. 1,400,074; Dec. 13.

Kaufer Manufacturing Company. (See Kaufer, Theodore, assignor.)

Kaufer, Theodore, assignor to Kaufer Manufacturing Company, Inc., New York, N. Y. Cooking-stove. No. 1,400,221; Dec. 13.

Kaufer, Theodore, New York, N. Y. Garment-hanger. No. 1,400,220; Dec. 13.

Kaufmann, Michael M. (See Keeran, C. B., and Kaufmann.)

Keck, Charles B. (See Grob, A., Kark, and Baird.)

Keeler, Charles W., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone exchange system. No. 1,400,075; Dec. 13.

Keeler, Charles W., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone signaling system. No. 1,400,076; Dec. 13.

Keene, Harry E. (See Sawyer, Walter H., assignor.)

Keeran, Charles R., and M. M. Kaufmann, assignors by mesne assignments, to Autopoint Pencil Company, Chicago, Ill. Pencil. No. 1,400,362; Dec. 13.

Keith, Harold L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,400,077; Dec. 13.

Kelly, Edward C., Boston, Mass. Oil-separator trap. No. 1,400,441; Dec. 13.

Kemper Thomas Company, The. (See Henderson, Edwin L., assignor.)

Kemston, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Molded tube. No. 1,400,078; Dec. 13.

Kennedy, Millard B. and V. C., Canton, S. D. Computing-machine. No. 1,400,363; Dec. 13.

Kennedy, Verne C. (See Kennedy, Millard B. and V. C.)

Kent, Robert E., Fannettsburg, Pa. Rat-trap. No. 1,399,965; Dec. 13.

Kerenyi, George, and E. Wolf, Ujpest, Hungary. Production of solid beds magnesium hypochlorite. No. 1,400,167; Dec. 13.

Kilcullen, Patrick J., Philadelphia, Pa. Wheel-hub. No. 1,400,442; Dec. 13.

King, Charles A., Leeds, and W. S. Rawson, London, England. Calculagraph. No. 1,400,443; Dec. 13.

King, Charles W., Memphis, Tenn. Wrench. No. 1,[illegible]; Dec. 13.

Kline, Edgar S., Osgood, Ind. Automatic fuel cut-off. No. 1,[illegible]; Dec. 13.

Klingsbury, Albert, Pittsburgh, Pa. Bearing. No. 1,400,158; Dec. 13.

Kirk-Latty Manufacturing Company, The. (See Eichel, William J., assignor.)

Kirk, Robert B., and J. B. Young, Olden, Tex. Cooking utensil. No. 1,[illegible]; Dec. 13.

Kirtley, Simeon B., Columbia, Mo. Account-ledger. No. 1,[illegible]; Dec. 13.

Klaxon Company. (See McConnell, Duncan A., assignor.)

Kling, Fred E., Youngstown, and L. B. Weddell, Cleveland, Ohio. Vibrating mechanism. No. 1,400,160; Dec. 13.

Knapik, Frank C., Baltimore, Md. Toe-bolt. No. 1,400,364; Dec. 13.

Knapp, Otto A., Oakland, Calif. Electrical measuring device. No. 1,[illegible]; Dec. 13.

Koetter, Walter H. (See Mueller, A. O., and Koetter.)

Koller, William, White Plains, N. Y. Embroidery-frame. No. 1,400,293; Dec. 13.

Kolling, Charles H., assignor of one-fourth to O. A. Weissenborn and one-fourth to Reinhold Prietz, Jersey City, N. J. Safety device for phonographs. No. 1,400,079; Dec. 13.

Kopchak, John K., Melville, Saskatchewan, Canada. Grain-door. No. 1,400,080; Dec. 13.

Kops, Daniel, New York, N. Y. Apparel-corset. No. 1,400,294; Dec. 13.

Kops, Wallerstein, New York, N. Y. Brassiere. No. 1,400,[illegible]; Dec. 13.

Kraft, Edward L., assignor of one-half to A. R. Cancelliere, York, Pa. Demountable drive mechanism for automobiles. No. 1,400,170; Dec. 13.

Kraft, James L., Chicago, Ill. Preparing cheese. No. 1,400,171; Dec. 13.

Krakian, William B., and C. Brettschneider, St. Paul, Minn. Air-moistening device. No. 1,400,444; Dec. 13.

Kriebel, Frederick L. (See Kriebel, Hosea K., assignor.)

Kriebel, Hosea K., Philadelphia, Pa., assignor of one-fourth to F. L. Kriebel, Chicago, Ill. Valve. No. 1,400,172; Dec. 13.

Kurkjian, Armen S., assignor to Oliver Machinery Company, Grand Rapids, Mich. Combination handwheel and faceplate for lathes. No. 1,399,069; Dec. 13.

Kusel, Isidor J., assignor to Stronghart Company, Chicago, Ill. Illuminated sign. No. 1,400,296; Dec. 13.

Kynoch Limited. (See Stephens, Richard H., assignor.)

La Brant, Paul R., and A. C. Nordhaugen, Stanley, N. D. Automobile-wheel-rim-straightening device. No. 1,400,297; Dec. 13.

Lachman, Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,400,178; Dec. 13.

Lambert, Walter, Montreal, Quebec, Canada. Cargo vessel. No. 1,400,298; Dec. 13.

Landgrebe, Carl O., Dresden, Germany. Valve for motors and the like. No. 1,400,488; Dec. 13.

Lane, Charles J., assignor to C. F. Elwell, London, England. Furnace. No. 1,399,970; Dec. 13.

Lang, Gustave J., Weehawken, N. J., assignor to American Bosch Magneto Corporation, Springfield, Mass. Automatic timing mechanism for oscillating magnetos. No. 1,399,777; Dec. 13.

La Roche, Edwin O., Clifton, Ill. Advertising sign. No. 1,400,081; Dec. 13.

Lavoie, Alphonse J., Montreal, Quebec, Canada. Cutter-boring arm. No. 1,399,971; Dec. 13.

Leadizing Company. (See Shoemaker, Robert J., assignor.)

Lee, Robert E., Dallas, Tex. Mail-pouch-suspending hook. No. 1,400,[illegible]; Dec. 13.

Lehmann, Oscar, Salt Lake City, Utah. Road-vehicle signal. No. 1,399,778; Dec. 13.

Lehr, Louis, Bayonne, N. J. Three-piece watch-casing. No. 1,400,083; Dec. 13.

Leiman, Henry, Tampa, Fla. Cigar-box. No. 1,400,084; Dec. 13.

Levine, Edward, New Haven, Conn. Flush for water-closets. No. 1,400,222; Dec. 13.

Levy, Henri G., San Francisco, Calif. Edging. No. 1,400,174; Dec. 13.

Liddicoat Calex Albia, Iowa. Car brake or stop. No. 1,399,972; Dec. 13.

Limpert, Alexander S., Pittsburgh, Pa. Headlight. No. 1,399,973; Dec. 13.

Linz, Francis E. (See Reif, Joseph, assignor.)

Little, Arthur D., Incorporated. (See Scott, Douglas E., assignor.)

Locomobile Company, The. (See Alborn, Frans G., assignor.)

Locomobile Company, The. (See Wimblad, Nicklas, assignor.)

Loewenberg, William B., Marion, Ind. Basket. No. 1,399,974; Dec. 13.

Lofquist, John V., St. Paul, Minn. Tent-rope tightener. No. 1,400,445; Dec. 13.

Lott, Clarence C., New York, N. Y. Valve-grinding device. No. 1,400,365; Dec. 13.

Lotz, Harold R., Toledo, Ohio. Headlight. No. 1,400,366; Dec. 13.

Lotz, William A., Newark, N. J., assignor to The R. Neumann Hardware Co. Bag-frame catch or hasp. No. 1,[illegible]; Dec. 13.

Lowry, Frederick S., deceased, by M. L. Hart, administratrix, Roseville, Ohio. Ceramic vessel. No. 1,400,480; Dec. 13.

Lynn, James. (See Schaefer, Frank M., assignor.)

MacDonald, Frank J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for lining receptacles. No. 1,399,780; Dec. 13.

MacDonald, John A. (See Johnsen, Arthur, assignor.)

Mackenzie, Fred L. (See Ayers, F. L., and Mackenzie.)

Mackenzie, Fred L. (See Gaddo, G., and Mackenzie.)

Mann, Frederick A., Chicago, Ill., assignor to Benjamin Electric Manufacturing Company. Switch. No. 1,399,781; Dec. 13.

Manchester, Ansel B., Los Angeles, Calif. Shock-absorber for drive-shafts. No. 1,400,[illegible]; Dec. 13.

Mangendorff, Max F., Culver Hill, N. Y. Prevention of adherence of moist particles. No. 1,400,176; Dec. 13.

Mann, Benjamin H., Milwaukee, Wis. Combination automobile-lock and thief-trap. No. 1,399,782; Dec. 13.

Manson, George J., Toronto, Ontario, Canada. Manufacturing fiber products. No. 1,399,976; Dec. 13.

Manufacturers Hardware Corporation. (See Beeman, Lyle, assignor.)

Martin Iron Works. (See Carr, John A., assignor.)

Martin, James V., Elyria, Ohio, Aerofoil. No. 1,400,177; Dec. 13.

Mausner, Frederick, Collingswood, N. J., assignor to Henry Wilhelm Company, Pittsburgh, Pa. Filling for mattresses. No. 1,400,[illegible]; Dec. 13.

Meyer, Walter L. and F. Bensley, assignors to The Victory Advertising Manufacturing Company, Kansas City, Mo. Display device. No. 1,399,785; Dec. 13.

Mayo, Benjamin F., Salem, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating open shank. No. 1,399,784; Dec. 13.

Mayo, Benjamin F., Salem, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Nail-distributing apparatus. No. 1,399,785; Dec. 13.

McAdam, Alfred B., Moose Jaw, Saskatchewan, Canada. Hot-air furnace. No. 1,400,299; Dec. 13.

McCabe, Harry E., Mount Pleasant, Iowa. Trailer for vehicles. No. 1,400,300; Dec. 13.

McCann, Harry P., Lakewood, Ohio. Furnace and conveying materials therethrough. No. 1,400,367; Dec. 13.

McClurg, John S., New York, N. Y., assignor, by mesne assignments, to Carlisle Tire Corporation. Automobile-tire. No. 1,400,301; Dec. 13.

McConnell, Duncan A., Arlington, N. J., assignor to Klaxon Company. Vibratory-diaphragm signaling device. No. 1,400,085; Dec. 13.

McConnell, George, Grand Rapids, Mich. Gluing-machine. No. 1,399,975; Dec. 13.

McCowan & Torley Company, The. (See Buboup, Harry C., assignor.)

McCreary, Edward J. (See McCreary, John and E. J.)

McCreary, John and E. J., Cohoes, N. Y. Machine for treating blankets. No. 1,400,446; Dec. 13.

McCurrie, Hugh C., San Francisco, Calif. Animal-trap. No. 1,400,175; Dec. 13.

McDill, Rex D. O., Riverview, Fla. Fruit preservative and using same. No. 1,400,086; Dec. 13.

McDonough, Joseph G., Eau Claire, Wis. Lumber and timber trade-marking device. No. 1,400,223; Dec. 13.

McGann, William H., Minneapolis, Minn. Grain-door-forcing device. No. 1,400,447; Dec. 13.

McGee, Dan, Fort Worth, Tex. Aeroplane. No. 1,400,490; Dec. 13.

McInnis, Mathew R., Minneapolis, Minn. Toy aeroplane or glider. No. 1,400,224; Dec. 13.

McKay, Walter D., *et al.* (See Thomas, Thomas D., assignor.)

Mechanical Rubber Company, The. (See Gibson, Henry R., assignor.)

Mechling Fidelis M., Wichita, Kans. Clamp. No. 1,400,491; Dec. 13.

Mecking, Herman, New York, N. Y. Gate for dumping trucks. No. 1,400,369; Dec. 13.

Megill, Edward L., New York, N. Y. Gripper-finger. No. 1,400,808; Dec. 13.

Mellenthin, Edwin E., Waukesha, Wis. Vacuum-cleaner. No. 1,400,448; Dec. 13.

Melser, Richard H., assignor to Triplex Garment Presser, Inc., Syracuse, N. Y. Garment-pressing machine. No. 1,400,088; Dec. 13.

Menard, Alfred N., Salix, Iowa. Water-trough. No. 1,400,449; Dec. 13.

Mercer, Robert S., Blackburn, England. Machine for filling pill-boxes with a regular quantity of pills. No. 1,400,804; Dec. 13.

Merle, Alfred J., Alameda, Calif. Mold. No. 1,399,977; Dec. 13.

Merrell-Soule Company. (See Gould, Benjamin A., assignor.)

Merton, Herbert. (See Hinton, Thomas, assignor.)

Messenger, Jack E., Des Moines, Iowa. Bench-vise. No. 1,399,786; Dec. 13.

Metzger, Charles A. (See Metzger, William E., assignor.)

Metzger, William E., assignor to C. A. Metzger, Rutland, Vt. Awning. No. 1,400,089; Dec. 13.

Meyer, Henry H., Red Wing, Minn. Grain-separator. No. 1,400,225; Dec. 13.

Meyer, Sam, St. Louis, Mo. Window-ventilator. No. 1,399,787; Dec. 13.

Milan, Horace R., Columbia, Tenn. Wrench. No. 1,400,226; Dec. 13.

Militor Corporation, The. (See Dunham, George W., assignor.)

Miller, Edwin P., assignor to Hannifin Manufacturing Company, Chicago, Ill. Chuck for machine-tools. No. 1,400,306; Dec. 13.

Miller, Marie, Ottawa, Ontario, Canada. Electric hair-curler. No. 1,400,305; Dec. 13.

Miller, William E., Renton, Wash. Composition for rubber finish and process. No. 1,400,090; Dec. 13.

Minick, Judd L., Altoona, Pa. Lamp-focusing device. No. 1,400,227; Dec. 13.

Mittman, Ernest B., Muscatine, Iowa. Feed holder and trough. No. 1,400,307; Dec. 13.

Moeller, Joseph F., Chicago, Ill. Leaf stemming and booking machine. No. 1,400,228; Dec. 13.

Moffat, David D., Hayden, Ariz. Ore concentration. No. 1,400,308; Dec. 13.

Molle, William, Oshkosh, Wis. Tabulator-stop for typewriters. No. 1,400,492; Dec. 13.

Monaghan, Thomas H., Chicago, Ill. Dishwasher. No. 1,399,978; Dec. 13.

Morelli, Caro B. (See Morelli, Juan B. and C. B.)

Morelli, Juan B. and C. B., Barcelona, Spain. Armored pneumatic tire. No. 1,400,450; Dec. 13.

Morgan, Walter L., St. Louis, Mo. Wrench. No. 1,400,451; Dec. 13.

Morton, Frederic C., New Haven, Conn. Tire-building machine. No. 1,399,979; Dec. 13.

Mosler Lock Company. (See Benham, E. M., and Bartels, assignors.)

Mueller, August O., and W. H. Koeller, Milwaukee, Wis. Manifold-heater. No. 1,399,980; Dec. 13.

Muldoon, John F., Melrose, Mass. Tube construction. No. 1,400,452; Dec. 13.

Munderback, John H., Watertown, N. Y. Automatic railway safety appliance. No. 1,400,093; Dec. 13.

Munsing, George D., New York, N. Y. Egg-beater. No. 1,400,309; Dec. 13.

Matson, Harvey, Solomon, Kans. Belt-lock. (Reissue.) No. 15,246; Dec. 13.
Murphy, Alfred F. (See Cameron, Lloyd E., assignor.)
Murray, Howard J., Brooklyn, N. Y. Electric-circuit controller. No. 1,400,229; Dec. 13.
Naubed, Carl. (See O'Connor, D. J., Nelson, and Naubed.)
Nation, Don O., assignor of one-half to W. M. Nation, Los Angeles, Calif. Tire-spreading tool. No. 13,400,453; Dec. 13.
Nation, William B. (See Nation, Don O., assignor.)
National Aniline & Chemical Co. (See Field, C., and Newell, assignors.)
National Biscuit Company. (See Ferrall, J. J., Sundheim, and Treiwany, assignors.)
National Biscuit Company. (See Ferrall, John J., assignor.)
National Biscuit Company. (See Powell, Howard L., assignor.)
National Brake & Electric Company. (See Alkman, Burton S., assignor.)
National Machinery Co., The. (See Clouse, William L., assignor.)
National Supply Company, The. (See Wright, Clyde S., assignor.)
National Tube Company. (See Rosenkrans, Max, assignor.)
Nebe, Arnold, et al. (See Raymond, Le Roy, assignor.)
Needham, Joseph, Passaic, N. J. Gas-mixer. No. 1,390,788; Dec. 13.
Nellen, Nelis A., Cupertino, Calif. Gap-closing machine. No. 1,399,981; Dec. 13.
Nelson, Charles A. (See O'Connor, D. J., Nelson, and Nahabed.)
Nesbitt, Samuel T., et al. (See Tooker, Harry S., assignor.)
Nessler, Charles, assignor to Nestle Patent Holding Co. Inc., New York, N. Y. Hair-waving apparatus. No. 1,400,370; Dec. 13.
Nestle Patent Holding Co. (See Nessler, Charles, assignor.)
Neumann, R., Hardware Co., The. (See Lotz, William A., assignor.)
Neumeyer, Horace F., Macungie, Pa. Automatic die. No. 1,399,967; Dec. 13.
Newcarry, Spencer B., Cleveland, Ohio. Basic refractory brick. No. 1,400,087; Dec. 13.
Newbury, Frank D., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Controlling device. No. 1,400,002; Dec. 13.
Newell, Walter E. (See Field, C. and Newell.)
Newhouse, Ray C., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Tube-mill. No. 1,399,982; Dec. 13.
Newton, Jeptha M., Dotham, Ala. Tensioning and pulling device. No. 1,400,371; Dec. 13.
Newton, Richard T., Nutley, N. J. Vehicle. No. 1,400,372; Dec. 13.
Nicholls, Henry M., Lockport, N. Y. Coating-machine. No. 1,400,310; Dec. 13.
Nicht, Alexander J., Jr., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Motor-control apparatus. No. 1,399,983; Dec. 13.
Nilson, Harold and L., Wayzata, Minn. Tractor. No. 1,400,230; Dec. 13.
Nilson, Leonard. (See Nilson, Harold and L.)
Nolte, Frank, et al. (See Binns, John B., assignor.)
Nordberg, Bruno V., Milwaukee, Wis. Valve for air-compressors and the like. No. 1,400,373; Dec. 13.
Nordhaugen, Adolph C. (See La Brant, P. R., and Nordhaugen.)
North, Clayton O., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Compounding of rubber products. No. 1,399,789; Dec. 13.
Norton Company. (See Anderson, Harry O., assignor.)
Nuss, Adolph J., and F. A. Parker, Williamsport, Pa. Filling and testing device. No. 1,399,868; Dec. 13.
O'Brien, William G., Akron, Ohio. Compounding rubber. No. 1,400,231; Dec. 13.
O'Connor, Daniel J., C. A. Nelson, and C. Nahabed, New York, N. Y., assignors to Twisted Wire & Steel Co. Wire-stretcher. No. 1,400,093; Dec. 13.
Of'n'On Chain Corporation. (See Ryan, Michael B., assignor.)
Ogden, John E., Mountainville, N. Y. Lag-screw expansion-shield. No. 1,400,405; Dec. 13.
Olinger, Thomas, and J. De Glopper, assignors to Federal Stamping Company, Holland, Mich. Furnace-damper regulator. No. 1,399,984; Dec. 13.
Olinger, Thomas, assignor to Federal Stamping Company, Holland, Mich. Furnace-register. No. 1,399,985; Dec. 13.
Oliver Machinery Company. (See Kurkjian, Armen S., assignor.)
Oniki, Manjiro, Fukuoka-Ken, Japan. Rice for manufacturing soy. No. 1,400,374; Dec. 13.
Ord, Lewis C., assignor to The Holden Company, Limited, Montreal, Quebec, Canada. Box car. No. 1,400,054; Dec. 13.
Owen, George W., assignor of one-half to P. K. Thiry, Indianapolis, Ind. Detachable heel. No. 1,400,095; Dec. 13.
Owen, George W., assignor of one-half to P. K. Thiry, Indianapolis, Ind. Detachable heel for shoes and boots. No. 1,400,096; Dec. 13.
Owens, Richard L., Minneapolis, Minn. Feed-hopper for grain-cleaning machinery. No. 1,400,235; Dec. 13.
Owens, Richard L., Minneapolis, Minn. Feed-hopper for grain-cleaning machines. No. 1,400,284; Dec. 13.
Owens, Richard L., Minneapolis, Minn. Wild-oat separator. No. 1,400,233; Dec. 13.
Pace, Marion, Homer City, Pa. Railway-tie. No. 1,400,375; Dec. 13.
Pacific Car & Foundry Co. (See Dow, Lancaster A., assignor.)
Pacific Car & Foundry Co. (See Palen, Frank T., assignor.)
Panoff, Nicholas B., Brooklyn, N. Y. Fountain-pen. No. 1,400,111; Dec. 13.
Parker, Fredrick A. (See Nuss, A. J., and Parker.)
Parker-Russell Big & Rail Company, The. (See Bliss, Richard R., assignor.)
Pathe Freres Phonograph Company. (See Gruner, Morris M., assignor.)
Patrick, F. A., et al. (See Pritchett, Joseph F., assignor.)
Patty, Nick, San Antonio, Tex. Harness-tug. No. 1,399,809; Dec. 13.
Payne, John H., Jr., Schenectady, N. Y., assignor to General Electric Company. Method of and means for producing alternating currents. No. 1,400,245; Dec. 13.
Pearce, Amy, Maiden City, British Columbia, Canada. Grub-cutter. No. 1,399,870; Dec. 13.
Pearson, Edward I., Toledo, Ohio. Engine-cooling means. No. 1,399,971; Dec. 13.
Pearson, Edward I., Toledo, Ohio. Short-circuiting means for automotive windings. No. 1,399,991; Dec. 13.
Peek, Horace H., Chattanooga, Tenn. Furnace. No. 1,400,454; Dec. 13.
Pelizzoni, Joseph A., Allentown, Pa., assignor to International Motor Company, New York, N. Y. Indexing-fixture for machine-tools. No. 1,399,992; Dec. 13.
Pemberton, Cyrus L., Fairmont, Ind. Oil-burner. No. 1,399,940; Dec. 13.
Perkins, Laula J., Lewiston, Idaho. Toy aeroplane. No. 1,400,047; Dec. 13.
Perrin, Arthur, Brookline, Mass. Optical instrument. No. 1,400,008; Dec. 13.
Perrin, George H., Hastings upon Hudson, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Slide-buckle. No. 1,400,178; Dec. 13.
Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Construction material. No. 1,400,312; Dec. 13.
Peterson, Edwin T., Gowrie, Iowa. Fence-post. No. 1,400,455; Dec. 13.
Petrak, George W., Marcellus, Wash. Grease-cup wrench. No. 1,400,456; Dec. 13.
Pfannenstiehl, Harry, East Orange, N. J., and E. F. Watson, assignors to Western Electric Company, Incorporated, New York, N. Y. Printing-telegraphy. No. 1,399,993; Dec. 13.
Pfeffer, John E., Chicago, Ill. Pressure-fluid motor. No. 1,400,236; Dec. 13.
Pfeiffer, Louis A., San Francisco, Calif. Oil-fuel heater. No. 1,400,172; Dec. 13.
Phillips, Harry G. (See Winter, George J., assignor.)
Phillips, James J., Rochester, N. Y. Winding means for spring-motors. No. 1,399,790; Dec. 13.
Phoenix, Charles E., Bellingham, Wash. Surveyor's compass. No. 1,399,994; Dec. 13.
Pickup, William, Pendleton, England. Rotary photogravure-printing machine. No. 1,399,987; Dec. 13.
Pico, Albert. (See White, Fred G., assignor.)
Pierce, Frank M., Chicago, Ill. Automatically-adjustable tensioning device. No. 1,399,988; Dec. 13.
Pierce, Frank M., Chicago, Ill. Horizontal-shuttle wrapping-machine. No. 1,399,989; Dec. 13.
Pierson, Reginald K., and T. S. Duncan, London, assignors to Vickers Limited, Westminster, England. Alighting or landing gear for aircraft. No. 1,399,990; Dec. 13.
Pierson, Robert M., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. No. 1,399,791; Dec. 13.
Pigeon, Albert M., assignor to Wildman Mfg. Co., Norristown, Pa. Yarn severing and clamping device for knitting-machines. No. 1,400,180; Dec. 13.
Pignalosa, Camillo. (See Sollima, Carmelo, assignor.)
Poignant, Carl E., assignor of one-half to C. G. Poignant, Matsqui, British Columbia, Canada. Poultry-nest. No. 1,400,472; Dec. 13.
Poignant, Carl G. (See Poignant, Carl E., assignor.)
Polinkowsky, Lipa, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Semi-automatic telephone-exchange system. No. 1,400,181; Dec. 13.
Pouchain, Adolfo, Turin, Italy. Negative plate for electric accumulators. No. 1,399,995; Dec. 13.
Pouchain, Adolfo, Turin, Italy. Negative plate for electric batteries. No. 1,399,996; Dec. 13.
Powell, Howard L., assignor to National Biscuit Company, New York, N. Y. Apparatus for forming cakes, &c. No. 1,400,373; Dec. 13.
Pratt, Huldah E., Detroit, Mich. Hair-waver. No. 1,400,374; Dec. 13.
Priets, Rosehold, et al. (See Kolling, Charles H., assignor.)
Prisamer, Burrows J., and J. L. Halstead, Los Angeles, Calif. Machine for making reinforced concrete pipe. No. 1,400,457; Dec. 13.

Pritchett, Joseph F., assignor of one-fourth to J. A. Johnson, Columbus, Ga., one-fourth to Q. T. Foster and one-fourth to F. A. Patrick, Columbus, Ga. Stringer. No. 1,399,875; Dec. 13.
Prött, Carl H., Rheydt, Germany. Apparatus for determining the amount of heat in the air. No. 1,400,313; Dec. 13.
Proudfoot, James O. B., Grafton, W. Va. Locomotive-journal lubricator. No. 1,400,237; Dec. 13.
Pruitsman, Paul, and G. L. Goodwin, Santa Maria, Calif., assignors, by mesne assignments, to General Petroleum Corporation. Treating asphaltic oils. No. 1,399,792; Dec. 13.
Pueppke, Gottlieb A., Oshkosh, Wis. Nut-cracking device. No. 1,400,099; Dec. 13.
Pulliam, William S., Los Angeles, Calif. Harvester and loader for beets, potatoes, &c. No. 1,399,876; Dec. 13.
Pupin, Michael I., Norfolk, Conn. Sound-generator. No. 1,399,877; Dec. 13.
Quinn, Allen F., Corona, N. Y. Reversible heel. No. 1,400,182; Dec. 13.
Rainey, Paul M., Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,399,997; Dec. 13.
Rainey, Paul M., Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,400,493; Dec. 13.
Rawson, William S. (See King, C. A., and Rawson.)
Ray, William H., Monroe, Mich. Window-screen construction. No. 1,399,878; Dec. 13.
Raymond, Le Roy, Ocean Park, Calif., assignor to A. Nestle and W. Denzel, New York, N. Y. Amusement device. No. 1,400,314; Dec. 13.
Raynsford, Arthur, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,399,998; Dec. 13.
Reddaway, Frank, Pendleton, Manchester, England. Vehicle of the self-laying-track type. No. 1,400,100; Dec. 13.
Reddin, Thomas P., Bridgeport, Conn. Power transmission. No. 1,399,879; Dec. 13.
Reed, Edgar H., Worcester, Mass. Making winged nuts and the like. No. 1,399,793; Dec. 13.
Reed, Hugh T., Chicago, Ill. Calendar. No. 1,399,880; Dec. 13.
Reed, James M., Brooklyn, N. Y. Safety door-fastener. No. 1,400,315; Dec. 13.
Reeve, Henry E., Brooklyn, N. Y. Thermostatic device. No. 1,400,238; Dec. 13.
Relf, Joseph, assignor of 45 per cent. to F. E. Ling, Hebron, Ind. Piston. No. 1,399,794; Dec. 13.
Relf, Joseph, assignor of 45 per cent. to F. E. Ling, Hebron, Ind. Shock-absorber for automobiles and other vehicles. No. 1,399,795; Dec. 13.
Reimer, Jorgen A., assignor of one-half to H. C. Hansen, Elk Horn, Iowa. Draft-evener for harrows. No. 1,399,999; Dec. 13.
Remy Electric Company. (See Conklin, Oliver F., assignor.)
Renault, Louis. (See Fuchs, Ernest, assignor.)
Renholdt, Charles A., assignor to The Bryant Electric Company, Bridgeport, Conn. Pull-switch. No. 1,400,376; Dec. 13.
Reno, Jesse W., New York, N. Y. Raising submerged vessels. No. 1,400,316; Dec. 13.
Richard, Fidele F., Moncton, New Brunswick, Canada. Valve-grinder. No. 1,400,000; Dec. 13.
Rider, Thomas B., Los Angeles, Calif. X-ray tube. No. 1,400,001; Dec. 13.
Ridout, Horace J., Floresville, Tex. Railway-crossing signal. No. 1,400,458; Dec. 13.
Roberts, Harold F. (See Carmean, J. H., and Roberts.)
Roberts, John M. (See Carmean, J. H., and Roberts.)
Robertson, James G., New York, N. Y. Heel. No. 1,400,183; Dec. 13.
Rodway, John L., Retford, England. Apparatus or means for automatically stopping gramophones and like machines. No. 1,399,881; Dec. 13.
Roe, Charles C., Wolfe City, Tex. Weevil-exterminator. No. 1,400,459; Dec. 13.
Roger, Eugene L., assignor to American Snap Fastener Company Inc., New York, N. Y. Machine for carding snap-fasteners. No. 1,400,002; Dec. 13.
Rosenkrans, Max, assignor to National Tube Company, Pittsburgh, Pa. Trough-dumping mechanism. No. 1,399,882; Dec. 13.
Rosenkrans, Max, assignor to National Tube Company, Pittsburgh, Pa. Trough-cover-lifting mechanism. No. 1,399,883; Dec. 13.
Rosenthal, Rubin, Brooklyn, N. Y. Ring-setting. No. 1,400,460; Dec. 13.
Ross, Oscar A., Brooklyn, N. Y. Automatic train-control system or the like. No. 1,399,796; Dec. 13.
Rotsted, William, Chicago, Ill. Apparatus for treating grain, &c. No. 1,399,797; Dec. 13.
Rowe, Andrew R., Portsmouth, Ohio. Apparatus and method for casting metal products. No. 1,399,798; Dec. 13.
Rowe, Edgar E., Chicago, Ill., assignor to United Shoe Machinery Corporation, Paterson, N. J. Tacking mechanism. No. 1,399,799; Dec. 13.
Rowe, John B., and A. G. Barratt, Johannesburg, Transvaal, South Africa. Change-speed gearing. No. 1,400,317; Dec. 13.
Rowlands, Percy O., Liverpool, England. Vaporizer. No. 1,400,377; Dec. 13.
Roy, Edward D., Greenville, S. C. Loom. No. 1,400,318; Dec. 13.
Royer, Edwin C., Philadelphia, Pa. Shears. No. 1,400,378; Dec. 13.
Ruble, Cyrus E. (See Hysell, Elmer, assignor.)
Rudoll, Edward C., Rice Lake, Wis. Head-block for presses. No. 1,400,319; Dec. 13.
Russell, Charles C., Chicago, Ill. Swell for automatic organs. No. 1,400,239; Dec. 13.
Russell, Charles C., Chicago, Ill. Automatic cut-out valve for self-playing organs. No. 1,400,240; Dec. 13.
Russell, Foster, Spokane, Wash. Washing-machine drawoff. No. 1,399,800; Dec. 13.
Ruttan, Alfred A., and C. E. Hutchings, assignors to Eastman Kodak Company, Rochester, N. Y. Plate-magazine for cameras. No. 1,399,884; Dec. 13.
Ryan, John H., Brighton, Mass. Chain-clamp. No. 1,399,885; Dec. 13.
Ryan, Michael B., Milford, Conn., assignor to Of 'N' On Chain Corporation, New York, N. Y. Non-skid chain. No. 1,400,320; Dec. 13.
Sacane, Tony, Gallatin, Pa. Game. No. 1,400,461; Dec. 13.
Saiges, Charles P., Philadelphia, Pa. Brake for aeroplanes. No. 1,400,462; Dec. 13.
Salmon, Edward W., Jr., assignor to Hull, Salmon Mfg. Co., Inc., Baltimore, Md. Film-cabinet. No. 1,400,503; Dec. 13.
Samuel, Lester E., Brownsville, Oreg. Circuit-breaker for reversible motors. No. 1,399,801; Dec. 13.
Sandefur, Telford, Roanoke, Va. Valve-lifter. No. 1,400,643; Dec. 13.
Sarra, Angelo D., New York, N. Y. Door-locking mechanism. No. 1,399,886; Dec. 13.
Saurage, Herbert J., Chicago, Ill. Radiator-shield for motor-vehicles. No. 1,400,184; Dec. 13.
Sawyer, Harvey C., St. Paul, Minn. Railway-track. No. 1,399,802; Dec. 13.
Sawyer, Walter H., assignor to H. R. Keene, Philadelphia, Pa. Sales-check holder and notcher therefor. No. 1,399,887; Dec. 13.
Schaake, William, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Pantograph-trolley. No. 1,400,101; Dec. 13.
Schaefer, Frank M., Chicago, Ill., assignor to J. Lynn, Wabash, Ind. Eraser-cleaner. No. 1,399,888; Dec. 13.
Schäffer, Max, assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Magneto-electric sparking apparatus. No. 1,399,803; Dec. 13.
Schaller, Carl, assignor to Grimme, Natalis & Co., Commanditgesellschaft Auf Actien, Brunswick, Germany. Calculating-machine. No. 1,400,003; Dec. 13
Schaller, Carl, assignor to Grimme, Natalis & Co., Commanditgesellschaft Auf Actien, Brunswick, Germany. Calculating-machine. No. 1,400,004; Dec. 13.
Schaller, Otto, Südende, near Berlin, assignor to Firm: Julius Pintsch Akt.-Ges., Berlin, Germany. Holder for the glowers of tungsten lamps. No. 1,400,005; Dec. 13.
Schelter, John C., Rochester, N. Y., assignor to Fits-Empire Double Pivot Last Company, Auburn, Me. Shoe form. No. 1,399,804; Dec. 13.
Scherfree, Mary A. (See Block, Benjamin B., assignor.)
Schermack Corporation, The. (See Schermack, Joseph J., assignor.)
Schermack, Joseph J., assignor to The Schermack Corporation, Detroit, Mich. Stamp-vending machine. No. 1,399,889; Dec. 13.
Schnipper, Samuel. (See Fraidus, Joe, assignor.)
Schoenberger, William J. (See Schultis, Charles F., assignor.)
Scholimeyer, Herbert H., Milwaukee, Wis. Motor-driven animal-skinning knife. No. 1,400,379; Dec. 13.
Schopp, Laurence O., St. Louis, Mo. Vacuum can-sealing machine. No. 1,399,805; Dec. 13.
Schultis, Charles F., assignor of one-half to W. J. Schoenberger, Cleveland, Ohio. Press for squeezing sand in flasks. No. 1,400,321; Dec. 13.
Schutte & Koerting Company. (See Derby, Samuel E., assignor.)
Schwartz, Charles, Villeurbanne, assignor to Société Gillet & Fils, Lyon, Rhone, France. Treatment of vegetable fibers. No. 1,400,380; Dec. 13.
Schwartz, Charles, Villeurbanne, France, assignor to Société Gillet & Fils, Lyon, Rhone, France. Treatment of vegetable fibers. No. 1,400,381; Dec. 13.
Schwarz, Emil P., St. Paul, Minn. Wrench. No. 1,399,890; Dec. 13.
Schweers, John D., Elizabeth, N. J. Valve for internal-combustion engines. No. 1,400,006; Dec. 13.
Scofield, Edgar, New York., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Crank-shaft. No. 1,399,806; Dec. 13.
Scott, Douglas E., Boston, assignor to Arthur D. Little, Incorporated, Cambridge, Mass. Isolating fiber from bagasse. No. 1,399,891; Dec. 13.
Scott, Wilfred W., Grantwood, N. J., assignor, by mesne assignments, to Atmospheric Nitrogen Corporation, New York, N. Y. Catalyzer for and producing oxids of nitrogen. No. 1,399,807; Dec. 13.
Scovill Manufacturing Company. (See Perrine, George H., assignor.)
Seattle-Astoria Iron Works. (See Troyer, Nelson, assignor.)

Secretary of War, trustee. (See Wood, Lowrie A., assignor.)
Seery, Thomas H., Malden, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,399,852; Dec. 13.
Sanders, Hiester, Reading, Pa. Power-transmission device. No. 1,400,185; Dec. 13.
Seymour, Roy R., and L. T. White, Pasadena, Calif. Sparking packing. No. 1,400,464; Dec. 13.
Severance, Howard D., Monterey, Calif. Fish cutting and cleaning machine. No. 1,400,186; Dec. 13.
Severs, Christopher H., Chicago, Ill. Safety-lock for switch-stands. No. 1,399,806; Dec. 13.
Shafer, John L., *et al.* (See Tucker, Harry S., assignor.)
Shambow, John C., assignor to Shambow Shuttle Company, Woonsocket, R. I. Shuttle-eye. No. 1,399,803; Dec. 13.
Shambow Shuttle Company. (See Shambow, John C., assignor.)
Sharp, John W. Mustogee, Okla. Bed-spring. No. 1,399,804; Dec. 13.
Sheehan, William M., assignor to Commonwealth Steel Company, St. Louis, Mo. Adjustable driving-box. No. 1,399,809; Dec. 13.
Sherbondy, Earl H., Cleveland, Ohio. Turbo-blower assembly. No. 1,400,222; Dec. 13.
Sherbondy, Earl H., Cleveland, Ohio. Turbo-compressor casing. No. 1,400,823; Dec. 13.
Sheriff, Samuel, Salt Lake City, Utah. Expansion-joint for pipes. No. 1,400,465; Dec. 13.
Shober, Frank L., Cincinnati, Ohio. Automobile-curtain. No. 1,399,895; Dec. 13.
Shoemaker, Robert J., assignor to Leadsing Company, Chicago, Ill. Iron or steel bearing element and making same. No. 1,399,810; Dec. 13.
Sholdsbrand, Henry O., St. Louis, Mo. Stovepipe-cleaner. No. 1,400,241; Dec. 13.
Shott Manufacturing Company, The. (See Gail, Charles H., assignor.)
Shute, Arthur C. (See Bergen, William V., assignor.)
Simmons, Charles B., Bristol, assignor to L. S. Bailey, Southington, Conn. Folding drawing-knife. No. 1,400,332; Dec. 13.
Sinclair, John, *et al.* (See Welch, James G., assignor.)
Singer, Benjamin, St. Louis, Mo. Lock for doors, windows, and the like. No. 1,399,807; Dec. 13.
Singer, Louis D., Harrodsburg, Ky. Wax flowers and making them. No. 1,400,326; Dec. 13.
Singer Manufacturing Company, The. (See Allen, Edward B., assignor.)
Singer Manufacturing Company, The. (See Corrall, Herbert, assignor.)
Siwecki, Felix G., Chicago, Ill. Locking device for automobiles. No. 1,400,243; Dec. 13.
Sleffel, William J., Lakewood, assignor to The Kirt-Latty Manufacturing Company, Cleveland, Ohio. Machine for making nuts. No. 1,400,244; Dec. 13.
Sloper, Thomas, Devizes, England. Apparatus and method for handling rubber goods. No. 1,399,898; Dec. 13.
Smith, Christian P., deceased, South Bend, Ind., A. L. Jones, administrator. Cutter-head. No. 1,400,245; Dec. 13.
Smith, Frances C., Atlanta, Ga. Word card game. No. 1,399,811; Dec. 13.
Smith, Michael H., London, England. Lacing-fastening. No. 1,399,899; Dec. 13.
Smith, S., & Sons (Motors Accessories) Limited. (See Dover, Prinsse O., assignor.)
Smurr, Samuel P., Chicago, Ill. Cut-out for exhaust pipes. No. 1,400,325; Dec. 13.
Société Anonyme des Etablissements L. Blériot. (See Bossu, Pierre, assignor.)
Société Anonyme Le Carbone. (See Gindre, Eugène, assignor.)
Société Gillet & Fils. (See Schwartz, Charles, assignor.)
Soete, Leonard P., Louisville, Ky. Car-wheel. No. 1,400,246; Dec. 13.
Solfiva, Carmelo, Paris, France, assignor to C. Pizzaloss, Rome, Italy. Child's vehicle. No. 1,400,326; Dec. 13.
Somtgerathe, Joseph F., and R. Kale, Cherryvale, Kans. Convertible plate or cover for electrical receptacles. No. 1,399,890; Dec. 13.
Sorensen, Hans, Hardy, Iowa. Shade-roller. No. 1,399,812; Dec. 13.
Spahr, Otto, assignor to Strauss Gas Iron Co., Philadelphia, Pa. Self-heating sadiron. No. 1,399,813; Dec. 13.
Spangler, Charles M., Emporium, Pa. Boiler-fine tool. No. 1,400,102; Dec. 13.
Sparks, Charles F., St. Louis, Mo. Bag closing and tying machine. No. 1,400,327; Dec. 13.
Sparks, William, Jackson, Mich., assignor to The Sparks-Withington Company, Cleveland, Ohio. Bracket. No. 1,400,007; Dec. 13.
Sparks-Withington Company, The. (See Sparks, William, assignor.)
Sparta, Peter, Saukville, Wis. Bag-holder. No. 1,399,814; Dec. 13.
Spears, Harry E., Baltimore, Md. Automatic draft control for heating apparatus. No. 1,399,815; Dec. 13.
Spiess, Paul, Zurich, Switzerland. Rotor for multistage high-speed engines. No. 1,398,816; Dec. 13.
Sporer, Paul, Chicago, Ill. Fruit and vegetable parer. No. 1,399,901; Dec. 13.
Sporer, Paul, Chicago, Ill. Fruit and vegetable parer. No. 1,399,902; Dec. 13.
Sprado, Carl G., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Method of and apparatus for manufacturing internal-combustion engines. No. 1,399,903; Dec. 13.
Sprado, Carl G., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Internal-combustion engine. No. 1,400,248; Dec. 13.
Springman, Carl W., Wellington, Kans. Liquid-fuel burner. No. 1,400,249; Dec. 13.
Square D Company. (See Ball, Albert P., assignor.)
Square D Company. (See Freeman, H. S., and Bodner, assignors.)
Square D Company. (See Woodrich, Arthur R., Jr., assignor.)
Square D Company. (See Zenker, Frederick, assignor.)
Stanley, Frank, Birmingham, England. Grinding-machine. No. 1,400,464; Dec. 13.
Stargis, Robert H. P., Madisonville, Ohio. Pie-crimper and cutter. No. 1,400,383; Dec. 13.
Staudig, Edwin O., Bakersfield, Calif. Self-feeder for hay-presses and threshers. No. 1,400,466; Dec. 13.
Standard Hatters Manufacturing Company. (See Hawkins, Arthur L., assignor.)
Standard Oil Company of New York. (See Chamberlain, Horace P., assignor.)
Steffens, John A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Producing catalysers. No. 1,400,247; Dec. 13.
Steiger, John H. (See Wilms, O. D., and Steiger.)
Stephens, Richard H., assignor of one-half to Kynoch Limited, Birmingham, England. Vapor-stove. No. 1,400,384; Dec. 13.
Stevens, Herbert C. M. (See Coutalen, L., and Stevens.)
Stevenson, George, Camden, N. J. Drying device. No. 1,399,903; Dec. 13.
Steventon, Thomas, Framingham, Mass. Die for molding phonograph records and the like. No. 1,399,904; Dec. 13.
Stewart, Charles T., Scotch Plains, N. J. Game device. No. 1,399,815; Dec. 13.
Stewart, Keith, Calcutta, British India. Cop-winding attachment for spinning-frames. No. 1,400,005; Dec. 13.
Stewart, Paul, Manville, Wyo. Adjustable wagon-gearing. No. 1,400,328; Dec. 13.
Stewart-Warner Speedometer Corporation. (See Wood, Andrew C., assignor.)
Stine, Ruby P., Greensburg, Ind. Waterbed fence. No. 1,399,816; Dec. 13.
Stirk, John H., Gravelly Hill, near Birmingham, England. Splash-guard for wheels of motor-vehicles. No. 1,400,010; Dec. 13.
Stites, James H., Detroit, Mich. Fireplace. No. 1,400,329; Dec. 13.
Stoddard, Charles F., New York, N. Y. Note-sheet perforating machine. No. 1,400,242; Dec. 13.
Stoots, John H., Knoxville, Tenn. Seat. No. 1,399,820; Dec. 13.
Storey, Benton W., Hailey, Idaho. Fencing-grip. No. 1,399,821; Dec. 13.
Strauss Gas Iron Co. (See Spahr, Otto, assignor.)
Streb, Charles, Rochester, N. Y. Footwear. No. 1,399,822; Dec. 13.
Strobl, Engelbert, Baltimore, Md. Musical toy. No. 1,400,386; Dec. 13.
Strob, Arthur K., Cadillac, Mich. Nutlock. No. 1,400,387; Dec. 13.
Stronghart Company. (See Kusel, Isidor J., assignor.)
Strout, Noyes R., Norwood, assignor to The Champion Amusement Company, Cincinnati, Ohio. Card game. No. 1,399,823; Dec. 13.
Stukey, Lawson J., Pittsburg, Kans. Washing-machine. No. 1,400,388; Dec. 13.
Sturtevant Mill Company. (See Sturtevant, Thomas J., assignor.)
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,400,467; Dec. 13.
Sunbeam Motor Car Company. (See Coatalen, L., and Stevens, assignors.)
Sundheim, Peter J. (See Ferrall, J. J., Sundheim, and Trelawny.)
Sunshine Amusement and Properties Co. (See Cadlipp, George R., assignor.)
Superior Rubber Mold & Equipment Company, *et al.* (See Binns, John B., assignor.)
Swanson, Anton, assignor to The Campbell Wire Specialty Works, South Bend, Ind. Valve-actuating device. No. 1,399,824; Dec. 13.
Sweeney, Eugene J., Rockford, Ill. Plane. No. 1,400,330; Dec. 13.
Taggart, Dawson M., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Artificial busy-circuits. No. 1,400,103; Dec. 13.
Taylor, Augustus. (See Elliott, Harold F., assignor.)
Taylor, Stephen J., *et al.* (See Binns, John B., assignor.)
Taylor's. (See Wadsworth, Perry C., assignor.)
Terrell, Thomas, London, England. Weaving-machine. No. 1,399,904; Dec. 13.
Thiry, Paul E. (See Owen, George W., assignor.)
Thomas, Joseph E., Sawtelle, Calif. Swingable telephone. No. 1,400,187; Dec. 13.

Thomas, Thomas D., Youngstown, Ohio, assignor of one-third to W. D. McKay and one-third to T. L. Thomas. Bolt. No. 1,400,245; Dec. 13.
Thomas, Thomas L., *et al.* (See Thomas, Thomas D., assignor.)
Thompson, Geoladys G., St. Louis, Mo. Garment. No. 1,399,825; Dec. 13.
Thorig, Werner, Zurich, Switzerland. Safe. No. 1,400,104; Dec. 13.
Thurston, Ernest B., assignor to The Haughton Elevator & Machine Co., Toledo, Ohio. Gate device. No. 1,400,905; Dec. 13.
Timm, William A. (See Griffin, J. T., and Timm.)
Todd, John H., Cleveland, Ohio. Laundry-checking device. No. 1,399,906; Dec. 13.
Tokheim, Albert, Thor, Iowa. Threshold and elsewhere-from-thereto. No. 1,400,250; Dec. 13.
Tooker, Harry S., assignor of one-half to S. T. Nesbitt and J. L. Shafer, Joplin, Mo. Pump. No. 1,400,188; Dec. 13.
Toomey, John F., New York, N. Y., assignor to American Express and Telegraph Company, Means for controlling repeater-circuits. No. 1,400,189; Dec. 13.
Tora, John, assignor of one-half to I. Gustafson, Vancouver, British Columbia, Canada. Saw-handle. No. 1,400,249; Dec. 13.
Townsend, James H., Gloversville, N. Y. Spark-plug. No. 1,399,827; Dec. 13.
Traynor, Arthur, Kosbkonong, Wis. Artificial feeding device. No. 1,399,828; Dec. 13.
Treloar, Charles H. (See Ferrall, J. J., Sundheim, and Trelawny.)
Trinks, Franz, Brunswick, Germany. Adding-machine. No. 1,400,106; Dec. 13.
Trinks, Franz, Brunswick, Germany. Calculating-machine. No. 1,400,105; Dec. 13.
Trophen Garment Presser. (See Meiser, Richard H., assignor.)
Trottier, René E., Puteaux, France. Classifying and separation of solid bodies by combined action of orientation, deviation, and derivation. No. 1,400,389; Dec. 13.
Trottier, René E., Puteaux, France. Apparatus for the classifying and separation of solid bodies by combined action of orientation, deviation, and derivation. No. 1,400,390; Dec. 13.
Troyer, Nelson, assignor to Seattle-Astoria Iron Works, Seattle, Wash. Can heading and sealing machine. No. 1,400,391; Dec. 13.
Tucker, Thaddeus C., assignor to California Almond Growers Exchange, San Francisco, Calif. Advertising-display. No. 1,400,190; Dec. 13.
Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical distribution. No. 1,400,602; Dec. 13.
Turrettini, Fernand, Geneva, Switzerland. Instrument adapted to disclose the difference actually existing between pieces which should be of the same actual size. No. 1,400,331; Dec. 13.
Twisted Wire & Steel Co. (See O'Connor, D. J., Nelson, and Nehabed, assignors.)
U. S. Industrial Alcohol Co. (See Backhaus, Arthur A., assignor.)
U. S. Industrial Alcohol Co. (See Backhaus, A. A., and Arents, assignors.)
U. S. Industrial Alcohol Co. (See Steffens, John A., assignor.)
U. S. Industrial Alcohol Co. (See Whitaker, Milton C., assignor.)
U. S. Industrial Alcohol Co. (See Willkie, Herman F., assignor.)
U. S. Light & Heat Corporation. (See Turbayne, William A., assignor.)
United Shoe Machinery Corporation. (See Ayers, F. L., and Mackenzie, assignors.)
United Shoe Machinery Corporation. (See Breck, Matthias, assignor.)
United Shoe Machinery Corporation. (See Doyle, Joseph H., assignor.)
United Shoe Machinery Corporation. (See Duplessis, René E., assignor.)
United Shoe Machinery Corporation. (See Glass, Perley H., assignor.)
United Shoe Machinery Corporation. (See Goodu, G., and Mackenzie, assignors.)
United Shoe Machinery Corporation. (See Hoyt, Charles H., assignor.)
United Shoe Machinery Corporation. (See Hunt, Chester, assignor.)
United Shoe Machinery Corporation. (See Mayo, Benjamin F., assignor.)
United Shoe Machinery Corporation. (See Rowe, Edgar E., assignor.)
United Shoe Machinery Corporation. (See Seely, Thomas H., assignor.)
Van Cott, Frank J., Unadilla, N. Y. Silo-door-fastening device. No. 1,400,250; Dec. 13.
Van Cott, Frank J., Unadilla, N. Y. Silo structure and anchoring system therefor. No. 1,400,251; Dec. 31.
Van Fossen, Isaiah C., assignor of one-half to H. A. Deuel, Pueblo, Colo. Spike-making machine. No. 1,400,392; Dec. 13.
Van Meter, James W., San Francisco, Calif. Producing poisonous gases. No. 1,399,829; Dec. 13.
Van Meter, James W., San Francisco, Calif. Chlorinative apparatus. No. 1,400,107; Dec. 13.
Van Meter, James W., San Francisco, Calif. Apparatus for chlorin control. No. 1,400,393; Dec. 13.
Vassau, Vernon A., Willow City, N. D. Movable partition for stock-cars. No. 1,399,908; Dec. 13.
Vickers Limited. (See Pierson, R. K., and Duncan, assignors.)
Victory Advertising Manufacturing Company, The. (See Mayer, W. L., and Beagle, assignors.)
Vols, Otto, Berlin, Germany. Water-softening washing compound. No. 1,400,332; Dec. 13.
Waddell, John A., Greenfield, Ohio. Support for boxlids. No. 1,399,830; Dec. 13.
Wadsworth, Frank L. O., Pittsburgh, Pa., assignor to Hughes Tool Company, Houston, Tex. Multiple-stage rotary drill. No. 1,399,831; Dec. 13.
Wadsworth, Perry C., assignor to Taylor's, Santa Ana, Calif. Food product and making the same. No. 1,400,191; Dec. 13.
Wagner, E. R., Manufacturing Company. (See Wagner, Edward R., assignor.)
Wagner, Edward R., Milwaukee, assignor to E. R. Wagner Manufacturing Company, North Milwaukee, Wis. Vehicle-wheel hub. No. 1,400,112; Dec. 13.
Walt, Henry H., Chicago, Ill. Dynamo-electric machine. No. 1,399,832; Dec. 13.
Waite, Harry F., New York, N. Y. Fluoroscopic X-ray system. No. 1,400,333; Dec. 13.
Walker, William, Aberdeen, Wash. Oil-burner. No. 1,400,108; Dec. 13.
Wallace, Oscar L., Cincinnati, Ohio. Shore. No. 1,400,109; Dec. 13.
Waller, Florence B. (See Garwood, Annie M., assignor.)
Walters, Elmor, Eldorado, Kans. Oil-rig bull-rope tripper. No. 1,400,111; Dec. 13.
Ward, Theodore W. H. (See Groves, S. E., and Ward.)
Warner Elevator Manufacturing Company, The. (See Young, George P., assignor.)
Warner, Violet V., New York, N. Y. Comb. No. 1,400,468; Dec. 13.
Warner, William D., Columbus, Ohio, assignor of one-half to H. J. Fairchild, Kalamazoo, Mich. Carburetor control. No. 1,400,110; Dec. 13.
Warry, Albert E., Birkenhead, England. Crutch applicable also for use as a walking-stick or elbow-crutch. No. 1,400,394; Dec. 13.
Washington, George E. and H., Manchester, England. Audible alarm or indication apparatus. No. 1,400,115; Dec. 13.
Washington, Harold. (See Washington, George E. and H.)
Watson, Edward F. (See Pfannenstiehl, H., and Watson.)
Wayne Oil Tank & Pump Company. (See Baker, Linnaeus E., assignor.)
Webb, Benjamin F. (See Karl, A. J., and Webb.)
Weber, Clifford A. M. (See Garcelon, G. H., and Weber.)
Wedgwarth, John K., Cuba, Ala. Metal rail-tie. No. 1,399,909; Dec. 13.
Weed, Lowrey A., Brooklyn, N. Y., assignor to the Secretary of War, trustee. Automatically-releasable magazine for machine-rifles. No. 1,400,252; Dec. 13.
Wehner, Heinrich, Frankfort-on-the-Main, Germany. Water-cleaning plant. No. 1,400,128; Dec. 13.
Weidlein, Luther B. (See Kling, F. E., and Weidlein.)
Weinberg, Marcel, Brooklyn, N. Y. Composition of matter. No. 1,400,895; Dec. 13.
Weine, Albert E., Alpena, Mich. Scale. No. 1,400,469; Dec. 13.
Weinrich, Gladys H., Chicago, Ill. Guard for telephone-transmitters and the like. No. 1,400,334; Dec. 13.
Weissenborn, Oscar A., *et al.* (See Kolling, Charles H., assignor.)
Welch, James G., St. Louis, Mo., assignor of one-fourth to J. Sinclair, one-fourth to H. J. Cross, and one-fourth to W. Aitchison, Detroit, Mich. Mailing catching and delivering apparatus. No. 1,400,114; Dec. 13.
Welch, Walter H., Bishopton, Bristol, assignor to Harvey Frost & Company, Limited, London, England. Electrical cut-out. No. 1,400,470; Dec. 13.
Welhart, Charles, Lowell, Mass., assignor, by mesne assignments, to Gillespie-Eden Corporation. Drive and reversing mechanism for washing-machines. No. 1,399,910; Dec. 13.
Weushuls, Joseph T., New York, assignor to Columbia Machine Works & Malleable Iron Co., Brooklyn, N. Y. Furnace. No. 1,400,335; Dec. 13.
Wessel, Karl, St. Paul, Minn. Building-slab. No. 1,400,115; Dec. 13.
Western District Cooperative Produce and Insurance Company Limited. (See Abbey, Benjamin, assignor.)
Western Electric Company. (See Adams, Arthur H., assignor.)
Western Electric Company. (See Barber, Charles C., assignor.)
Western Electric Company. (See Dixon, Amos F., assignor.)
Western Electric Company. (See Egerton, Henry C., assignor.)
Western Electric Company. (See Grace, Bertram B., assignor.)
Western Electric Company. (See Griffith, J. T., and Timm, assignors.)

Western Electric Company. (See Johnson, Kenneth S., assignor.)
Western Electric Company Incorporated. (See Pfannenstiehl, H., and Watson, assignors.)
Western Electric Company. (See Polinkowsky, Lipa, assignor.)
Western Electric Company. (See Rainey, Paul M., assignor.)
Western Electric Company. (See Raynsford, Arthur, assignor.)
Western Electric Company. (See Taggart, Dawson M., assignor.)
Western Electric Company. (See Williams, Samuel B., Jr., assignor.)
Western Electric Company. (See Wotton, James A., assignor.)
Westinghouse Electric and Manufacturing Company. (See Bradshaw, W. M., and Boddie, assignors.)
Westinghouse Electric & Manufacturing Company. (See Dickey, Daniel A., assignor.)
Westinghouse Electric & Manufacturing Co. (See Flanders, Warren B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Frederick, Louis T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Garceau, G. H., and Weber, assignors.)
Westinghouse Electric and Manufacturing Company. (See Gysel, Max E., assignor.)
Westinghouse Electric & Manufacturing Co. (See Hodgkinson, Francis, assignor.)
Western Electric Company. (See Keckler, Charles W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Johnson, Josiah F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Keith, Harold L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kempton, Willard H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Newbury, Frank D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Schaake, William, assignor.)
Wharton, Harry M. (See Cooper, James C., Sr., assignor.)
Wheildon, William M., Ashland, assignor to E. H. Angier, Framingham, Mass. Method of wrapping and means for practising the same. No. 1,400,116; Dec. 13.
Wherland, Robert F., Stanley N. D. Battery-machine. No. 1,400,471; Dec. 13.
Whitaker, Jack, Fort Dodge, Iowa. Track-clamp. No. 1,400,396; Dec. 13.
Whitaker, Milton C., New York, N. Y., assignor to U. S. Industrial Alcohol Co. Obtaining potassium compounds. No. 1,400,192; Dec. 13.
Whitaker, Milton C., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Container for volatile liquids. No. 1,400,193; Dec. 13.
White, Fred G., assignor to Albert Pico, Kansas City, Mo. Manifold attachment for typewriters. No. 1,399,912; Dec. 13.
White, John W., Lewistown, Mont. Vehicle-headlight control. No. 1,400,117; Dec. 13.
White, Lawrence T. (See Seymour, R. R., and White.)
White, Robert C., Irondale, Ala. Grate shaking and dumping mechanism. No. 1,399,911; Dec. 13.
White, William R., London, Tenn. Adjustable guide-collar for shaper-machines. No. 1,400,472; Dec. 13.
Whitnell, Charles O., Des Moines, Iowa. Stock-watering tank. No. 1,400,194; Dec. 13.
Whitney, Noel C., Terre Haute, Ind. Automatic tile-cutter. No. 1,400,473; Dec. 13.
Whitney, Willie D. L., Holley, N. Y. Harrow-point. No. 1,400,118; Dec. 13.
Whittingham, Richard A., Newark, Del. Housing for truck-driving gears. No. 1,400,119; Dec. 13.
Wicker, Albert G., Cincinnati, Ohio. Spring. No. 1,400,253; Dec. 13.
Wiebe, Agnes C., Brooklyn, N. Y. Toy vehicle. No. 1,399,833; Dec. 13.
Wildman Mfg. Co. (See Pigeon, Albert M., assignor.)
Wilkinson, Paul H., San Bernardino, Calif. Tread-roller. No. 1,400,474; Dec. 13.
Wilinski, Stanislaw, Bay City, Mich. Aperture-cleaning syringe. No. 1,399,834; Dec. 13.
Willems, Henry J., Kenosha, Wis. Folding-chair. No. 1,399,825; Dec. 13.
Williams, Samuel B., Jr., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,400,175; Dec. 13.
Williamson, Robert B., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Winding for dynamo-electric machines. No. 1,400,336; Dec. 13.
Winkler, Herman F., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Making methyl formate. No. 1,400,195; Dec. 13.
Winkler, Herman F., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Producing homogeneous products including films. No. 1,400,196; Dec. 13.
Wills, Cephas J., assignor of one-half to E. J. Wills, Toronto, Ontario, Canada. Detachable automobile steering-wheel. No. 1,400,121; Dec. 13.
Wills, Edgar J. (See Wills, Cephas J., assignor.)
Wilms, Gottlieb D., and J. H. Staiger, Paterson, N. J. Shuttle tension. No. 1,400,257; Dec. 13.
Wilson & Co. (See Hechler, Valentine, assignor.)
Winblad, Niklas, Stephey, assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Internal-combustion engine. No. 1,400,123; Dec. 13.
Winter, George J., assignor of one-half to H. G. Phillips, Buffalo, N. Y. Pneumatic heel. No. 1,400,430; Dec. 13.
Wire Wheel Corporation of America. (See House, Henry A., Jr., assignor.)
Wissinger, Earl, *et al.* (See Binns, John B., assignor.)
Wolf, Emil. (See Keressty, G., and Wolf.)
Wolf, George Patterson, N. J. Grinding-plate for attrition-mills. No. 1,400,124; Dec. 13.
Wolverton, Ralph H. S., Walla Walla, Wash. Printing-machine. No. 1,400,124; Dec. 13.
Wood, Andrew C., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Revolution-counter resetting. No. 1,400,197; Dec. 13.
Wood, Andrew C., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Magnetic speedometer. No. 1,400,198; Dec. 13.
Wood, Bert B., Minneapolis, Minn. Aeroplane. No. 1,399,913; Dec. 13.
Wood, Edith L., Galeton, Pa. Footrest. No. 1,399,817; Dec. 13.
Wood, Frank W., Montclair, N. J., assignor to Charles Cory & Son, Incorporated, New York, N. Y. Indicating mechanism. No. 1,400,199; Dec. 13.
Wood, John C., Bellaire, Ohio. Door-closer. No. 1,400,125; Dec. 13.
Woodhull, Llewellyn S., Detroit, Mich., assignor, by mesne assignments, to The Automotive Corporation, Toledo, Ohio. Line-controlled tractor. No. 1,400,494; Dec. 13.
Woolery, Horace E., St. Paul, Minn. Driving mechanism. No. 1,400,200; Dec. 13.
Woolfolk, Arthur R., Jr., New York, N. Y., assignor to Square D Company, Detroit, Mich. Quick break double-throw switch. No. 1,400,837; Dec. 13.
Wotton, James A., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Contact device. No. 1,400,126; Dec. 13.
Wright, Charles F. (See Wright, Jacob P., and C. F.)
Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Chain-wrench. No. 1,400,308; Dec. 13.
Wright, Jacob P., Barberton, and C. F. Wright, Akron, Ohio, assignors to The Diamond Match Company, Chicago, Ill. Carrier for card-match machines. No. 1,400,338; Dec. 13.
Wright, Sheldon T., assignor to Cluett, Peabody & Co. Inc., Troy, N. Y. Soft-fold collar. No. 1,400,839; Dec. 13.
Yaeche, Oscar H., Aurora, Ill. Cistern-top. No. 1,400,309; Dec. 13.
Young, George P., assignor to The Warner Elevator Manufacturing Company, Cincinnati, Ohio. Elevator-oiling mechanism. No. 1,400,254; Dec. 13.
Young, Joseph B. (See Kirk, R. B., and Young.)
Zalss, Fred E., Chicago, Ill. Machine for making spiral stick-candy. No. 1,400,127; Dec. 13.
Zalss, Fred E., Chicago, Ill. Machine for making candy. No. 1,400,128; Dec. 13.
Zenker, Fredrick. (See Freeman, H. S., and Zenker.)
Zenker, Fredrick, Highland Park, assignor to Square D Company, Detroit, Mich. Quick-break double-throw switch. No. 1,400,400; Dec. 13.
Zütter, Maurice, Paris, France. Hinge for doors and the like. No. 1,400,130; Dec. 13.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Ajax Rubber Company Inc. (See McMahan, William W., assignor.)
American Stove Company. (See Farnham, Charles F., assignor.)
Aston Casket Hardware Co. (See Aston, Frank B., assignor.)
Aston, Frank B., assignor to Aston Casket Hardware Co., Elgin, Ill. Casket-handle. No. 59,946; Dec. 13.
Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Insulator. No. 59,947; Dec. 13.
Bailey, Charles W., Philadelphia, Pa. Finger-ring. No. 59,948; Dec. 13.
Baker, Linnaeus E., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Apparatus for housing hose. No. 59,949; Dec. 13.
Blackstone, Alex, Newark, N. J. Medicinal tablet. No. 59,950; Dec. 13.
Brook, Samuel, New Bedford, Mass. Knife-sharpener. No. 59,951; Dec. 13.
Brien, Henry L., East Orange, N. J. Nozzle for syringes. No. 59,952; Dec. 13.
Burson Knitting Company. (See Swanson, Sam, assignor.)
Church, Howard A., Elkhart, Ind. Aluminum roaster. No. 59,953; Dec. 13.
Curtiss, George E., assignor to Landers, Frary & Clark, New Britain, Conn. Knob for cooking or kitchen utensils. No. 59,954; Dec. 13.
Dennis, Edward C., and R. M. Shipley, Wichita, Kans. Emblem, badge, ring, stickpin, brooch, watch-charm, lapel-button, or article of similar nature. No. 59,984; Dec. 13.
Farnham, Charles F., Lorain, Ohio, assignor to American Stove Company, St. Louis, Mo. Display-card. No. 59,955; Dec. 13.
Fluharty, William G., Rockville Center, N. Y. Tape-transmitter casing. No. 59,956; Dec. 13.
Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Electrically-heated waffle-iron. No. 59,957; Dec. 13.
General Gas Light Company. (See Humphrey, Alfred H., assignor.)
Granby Phonograph Corporation. (See Howard, Edmond C., assignor.)
Hochstetter, Frederick W., Dayton, Ohio. Moving-picture machine. No. 59,958; Dec. 13.
Homel, Benjamin L., Ludington, Mich. Shirt. No. 59,959; Dec. 13.
Howard, Edmond C., Norfolk, Va., assignor to Granby Phonograph Corporation. Sound-box for phonographs. No. 59,960; Dec. 13.
Humbird, Dorothy B., Spokane, Wash. Bedcover-retainer. No. 59,961; Dec. 13.
Humphrey, Alfred H., New York, N. Y., assignor to General Gas Light Company, Kalamazoo, Mich. Gas-stove. Nos. 59,962–3; Dec. 13.
Humphrey, Alfred H., New York, N. Y. Radiant for gas-stoves. No. 59,964; Dec. 13.
Hurtt, Spencer M., Ridley Park, Pa., assignor to The Mynol Chemical Company. Receptacle for dentists' use. No. 59,965; Dec. 13.
Joseph, Henry, Grayling, Mich., assignor to Joseph Sanitary Products Company, Milwaukee, Wis. Rubber mat and cover. No. 59,966; Dec. 13.
Joseph Sanitary Products Company. (See Joseph, Henry, assignor.)
Jurek, Martin, Dallas, Tex. Shaving-cabinet. No. 59,967; Dec. 13.
Keenan, Anna, Seattle, Wash. Doll. Nos. 59,968–9; Dec. 13.
Kromenaker, Frank J., Chicago, Ill. Dice. No. 59,970; Dec. 13.
Landers, Frary & Clark. (See Curtiss, George E., assignor.)
Lebo, Daniel T., Kansas City, Mo. Shoe-sole. No. 59,971; Dec. 13.
Lederer, Sigmund, Providence, R. I. Watch-bracelet. No. 59,972; Dec. 13.
McMahan, William W., Trenton, N. J., assignor to Ajax Rubber Company, Inc., Millbrook, N. Y. Tire-tread. No. 59,973; Dec. 13.
Meyer, Fred G., Detroit, Mich. Siphon-tube holder. No. 59,974; Dec. 13.
Mynol Chemical Company, The. (See Hurtt, Spencer M., assignor.)
Nakamura, Tokuji, San Leandro, Calif. Motor-fan. No. 59,975; Dec. 13.
Ohio Brass Company, The. (See Austin, Arthur O., assignor.)
Parella, Anthony, New York, N. Y. Automobile radiator-core. No. 59,976; Dec. 13.
Parker, Martin, assignor to Parker Safety Hitch Company, St. Paul, Minn. Lazy-horse clevis. No. 59,977; Dec. 13.
Parker Safety Hitch Company. (See Parker, Martin, assignor.)
Pascal, Annette S. (See Tyler, H., and Pascal.)
Pease, Ephraim S., Buffalo, N. Y. Lamp-stand. No. 59,979; Dec. 13.
Potter & Buffinton Company. (See Weed, Edward L., assignor.)
Proctor, Frederick G., assignor to Proctor-Keefe Company, Detroit, Mich. Truck-cab. No. 59,980; Dec. 13.
Proctor-Keefe Company. (See Proctor, Frederick G., assignor.)
Russell, Calvin, assignor to C. H. Russell, Penn Yan, N. Y. Roofing-shingle. No. 59,981; Dec. 13.
Russell, Carrie H. (See Russell, Calvin, assignor.)
Schoenfeldt, Louis B. F., Holyoke, Mass. Tire. No. 59,982; Dec. 13.
Scotford, Baron H., Atlantic City, N. J. Lamp-shade. No. 59,983; Dec. 13.
Scott-Ullman Company. (See Ullman, Albert, assignor.)
Shipley, Robert M. (See Dennis, E. C., and Shipley.)
Simmons, Ada S. (See Zimmerman, Margrite M., assignor.)
Simon, Maurice, St. Louis, Mo. Automobile radiator-cap. No. 59,985; Dec. 13.
Spitzer, Samuel, New York, N. Y. Pendant watch-bow. No. 59,986; Dec. 13.
Steele, Lloyd R., Auburn, N. Y. Auto radiator-cap. No. 59,987; Dec. 13.
Swanson, Sam, assignor to Burson Knitting Company, Rockford, Ill. Stocking. No. 59,988; Dec. 13.
Thommen, William H., Plymouth, Wis. Phonograph. No. 59,989; Dec. 13.
Tweedie, Charles, Jefferson City, Mo. Foot-band. Nos. 59,990–1; Dec. 13.
Tyler, Helen, and A. S. Pascal, New York, N. Y. Statuette. No. 59,978; Dec. 13.
Ullman, Albert, assignor to Scott-Ullman Company, Cleveland, Ohio. Ring for lighting-fixtures. No. 59,992; Dec. 13.
Vesely, Rudolph, Chicago, Ill. Edible candy or cake confection. No. 59,993; Dec. 13.
Vivaudou, Victor, New York, N. Y. Bottle. No. 59,994; Dec. 13.
Wayne Oil Tank and Pump Company. (See Baker, Linnaeus E., assignor.)
Webb, Charles B., Cleveland, Ohio. Oil-burner body. No. 59,995; Dec. 13.
Weed, Edward L., assignor to Potter & Buffinton Company, Providence, R. I. Charm. No. 59,996; Dec. 13.
Weed, Edward L., Providence, R. I. Precious, semi-precious, or synthetic stone. No. 59,997; Dec. 13.
Westinghouse Electric Products Company. (See Forshee, Frank F., assignor.)
Wilson, Ernest L., Ashton, Preston, England, assignor of one-half to H. G. Wilson, London, England. Curtain-fitting. No. 59,998; Dec. 13.
Wilson, Harold G. (See Wilson, Ernest L., assignor.)
Zimmerman, Marguerite M., assignor of one-half to A. S. Simmons, Kansas City, Mo. Doll. No. 59,999; Dec. 13.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Acme Die Casting Corporation, Brooklyn and New York, N. Y. Non-ferrous castings, such as die-castings. No. 149,429; Dec. 13.

Alamoro Marble Company, The, Alamogordo, N. Mex., and Chicago, Ill. Marble not prepared for building purposes. No. 149,334; Dec. 13.

Allen's Mrs., Kitchens, New York, N. Y. Pies. No. 149,422; Dec. 13.

Aluminium Walzwerke A.-G., Schaffhausen, Switzerland. Rope made of aluminium. No. 149,335; Dec. 13.

Alvey-Ferguson Company, The, Cincinnati, Ohio. Certain conveyers and conveying machinery and parts thereof. No. 149,336; Dec. 13.

American Bearing & Die Casting Corporation, Indianapolis, Ind. Babbitt-lined bearings. No. 149,337; Dec. 13.

American Drug and Chemical Co., Gettysburg, Pa. Toy chemical sets. No. 149,338; Dec. 13.

American Florist Soil Co., The, Akron, Ohio. Plant food. No. 149,561; Dec. 13.

American Lead Pencil Company, New York, N. Y. Rubber bands. No. 149,339; Dec. 13.

Anthony Company, The, Long Island City, N. Y. Pumps, paint and water spraying devices, blowers, air-compressors. No. 149,562; Dec. 13.

Anthony Company, The, Long Island City, N. Y. Check and tire valves, liquid strainers. No. 149,563; Dec. 13.

Anthony Company, The, Long Island City, N. Y. Oil meters and gages, air-gages. No. 149,564; Dec. 13.

Asahel Wheeler Company, Boston, Mass. Ready-mixed paints and varnishes. No. 149,547; Dec. 13.

Atlantic Refining Company, The, Philadelphia, Pa. Turpentine substitute. No. 149,340; Dec. 13.

Babbitt Steam Specialty Co., New Bedford, Mass. Sheet-packing. No. 149,341; Dec. 13.

Barbour, J. E., Company, Paterson, N. J. Twines. No. 149,342; Dec. 13.

Basick Company, The, Bridgeport, Conn. Casters. Nos. 149,547–8; Dec. 13.

Bemis Bro. Bag Co., St. Louis, Mo. Parcel-post mailing-envelops. No. 149,343; Dec. 13.

Bessire & Company, Indianapolis, Ind., and Louisville, Ky. Tables, chairs, and stools. No. 149,344; Dec. 13.

Bischoff, Henry B., Collinsville, Ill. Non-alcoholic, non-cereal, maltless beverages and syrups for making. No. 149,349; Dec. 13.

Blake, McFall Company, Portland, Oreg. Paper bags. No. 149,345; Dec. 13.

Bradshaw, Edward D., New York, N. Y. Popping corn. No. 149,346; Dec. 13.

Brandmeir Rounds Lumber Co., Seattle, Wash. Lumber, shingles, laths. Nos. 149,350–1; Dec. 13.

Breslauer Brothers & Bernstein, Inc., New York, N. Y. Hair-nets. No. 149,352; Dec. 13.

Bretch, Sam, Wholesale Specialties, Oklahoma, Okla. Automobile-tires of rubber and cloth fabric composition, &c. No. 149,495; Dec. 13.

Bretch, Sam, Wholesale Specialties, Oklahoma, Okla. Rubber inner tubes for automobile-tires. No. 149,496; Dec. 13.

Brown, Jack E., Colton, assignor, by mesne assignments, to Gertrude Johnson, Rialto, Calif. Washing-powder. No. 149,353; Dec. 13.

Brune, Pottberg & Co., New York, N. Y. Cotton piece goods. No. 149,354; Dec. 13.

Carter Bloxonend Flooring Co., Kansas City, Mo. Wooden flooring. No. 149,565; Dec. 13.

Casnatt, E. B., Company, The, Cleveland, Ohio. Tractors. No. 149,355; Dec. 13.

Casshey, Joseph D., New York, N. Y. Dental plaster. No. 149,566; Dec. 13.

Cherokee Spinning Company, Knoxville, Tenn. Yarns and threads. No. 149,356; Dec. 13.

Chicago Orthopedic Appliance Company, Chicago, Ill. Deformity-braces, extension-shoes, artificial limbs, &c. No. 149,359; Dec. 13.

Chicago Pneumatic Tool Company, Chicago, Ill. Pneumatic tools and machinery. No. 149,357; Dec. 13.

Chicago Pneumatic Tool Company, Chicago, Ill. Certain machinery and tools. No. 149,358; Dec. 13.

Chocolate Products Company, Baltimore, Md. Candy. No. 149,567; Dec. 13.

Chocolate Truffles Co. Inc., Portland, Oreg. Candy. No. 149,360; Dec. 13.

Clarke, Madam M. G., Cleveland, Ohio. Certain preparations for the hair. No. 149,568; Dec. 13.

Clinton, A. B., Company, The, New Haven, Conn. Needles for sound-reproducing machines. No. 149,361; Dec. 13.

Clipper Lawn Mower Company, Dixon, Ill. Mowers, lawn-mowers, and repair parts therefor. No. 149,569; Dec. 13.

Cole, H. C., Milling Co., Chester, Ill. Wheat-flour. No. 149,362; Dec. 13.

Collis Products Company, Clinton, Iowa. Powdered buttermilk. No. 149,363; Dec. 13.

Columbia Ribbon & Carbon Mfg. Co., New York, N. Y. Typewriter-ribbons and carbon-paper. No. 149,570; Dec. 13.

Congress Cigar Company, Philadelphia, Pa. Cigars. No. 149,573; Dec. 13.

Cook, H. C., Co., Ansonia, Conn. Nail-clippers. No. 149,571; Dec. 13.

Cooper & Cooper, Inc., New York, N. Y. Certain pigments and colors, putty, &c. No. 149,364; Dec. 13.

Corn Products Refining Co., New York, N. Y. Cornstarch. No. 149,365; Dec. 13.

Crown Willamette Paper Company, San Francisco, Calif. Paper bags. Nos. 149,366–7; Dec. 13.

Dixie Mercerizing Company, Chattanooga, Tenn. Yarns. No. 149,368; Dec. 13.

Dunlop Rubber Company Limited, The, London, England. Repair outfits for tires. No. 149,369; Dec. 13.

Duran, John, Son & Co., New York, N. Y. Painters' materials. No. 149,370; Dec. 13.

Eagle Tire Patch Co., Moberly, Mo. Rubber patches. No. 149,371; Dec. 13.

East Coast Fisheries Products Company, Rockland, Me. Fresh fish. No. 149,372; Dec. 13.

Elish, Hedwig R., Philadelphia, Pa. Lard substitutes. No. 149,373; Dec. 13.

Empire Cream Separator Company, Bloomfield, N. J. Centrifugal separators. No. 149,374; Dec. 13.

Empire Cream Separator Company, Bloomfield, N. J. Milking-machines and milking-machine systems and parts thereof. No. 149,375; Dec. 13.

Empire Varnish Company, The, Cleveland, Ohio. Varnish. No. 149,376; Dec. 13.

Erlanger N. Blumgart & Co. Inc., New York, N. Y. Cotton voiles in piece goods. No. 149,377; Dec. 13.

Estate Stove Company, The, Hamilton, Ohio. Coal and wood stoves. No. 149,378; Dec. 13.

Everett, Heaney & Company, Inc., New York, N. Y. Cotton, woolen, linen, and combination piece goods. No. 149,379; Dec. 13.

Fairbanks Co., The, New York, N. Y. Mill-baskets, oil-cabinets, tool-chests, hose-reels, &c. No. 149,380; Dec. 13.

Ferris, William L., New York, N. Y. Puzzles. No. 149,381; Dec. 13.

Finkensieper, Adolf, Clifton, N. J. Reliners for rubber or leather tires. No. 149,574; Dec. 13.

Firth-Sterling Steel Company, McKeesport, Pa. Steel, including tool and die steel. No. 149,424; Dec. 13.

Fisher, George, New York, N. Y. Polish for furniture. No. 149,382; Dec. 13.

Fischer, J., & Bro., New York, N. Y. Sheet-music and music-books. No. 149,572; Dec. 13.

Fitchburg Machine Works, Fitchburg, Mass. Lathes. No. 149,575; Dec. 13.

Fox, Helen M., Peekskill, N. Y. Canned and bottled honey and boxes of honeycomb. No. 149,383; Dec. 13.

Gandolfo Ohio Mfg. Co., St. Louis, Mo. Spaghetti, macaroni, vermicelli, and noodles. No. 149,384; Dec. 13.

Gans, John, New York, N. Y. Thoroughbred dogs. No. 149,576; Dec. 13.

Gastum, A., & Company, Inc., New York, N. Y. Wheat-flour. No. 149,385; Dec. 13.

General Electric Company, Schenectady, N. Y. Refractory composition for use in furnaces. No. 149,386; Dec. 13.

General Phonograph Corporation, New York, N. Y. Talking-machines, phonographs, and certain named phonographs and accessories. No. 149,577; Dec. 13.

Goddard Tool Company, Chicago, Ill. Metal-working milling-tools and hobs. No. 149,578; Dec. 13.

Goldsborough, John B., *et al.* (See Stim-U-Plant Tablet Co.)

Goodrich, B. F., Company, The, New York, N. Y. Gun-recoil pads for hand-arms. Nos. 149,387–8; Dec. 13.

Goodrich, B. F., Company, The, New York, N. Y. Belting made of fabric combined with rubber. No. 149,389; Dec. 13.

Goodrich, B. F., Company, The, New York, N. Y. Hose, dredging-sleeves, and machinery packing. No. 149,425; Dec. 13.

Gordon, Lucious L., Mobile, Ala. Furniture-polish. No. 149,390; Dec. 13.

Gottschalk Steinberg & Co. Inc., New York, N. Y. Veils, vellings, and nettings in the piece. No. 149,391; Dec. 13.

Graf Bros. Inc., New York, N. Y. Hair-nets. No. 149,426; Dec. 13.

Graham Brothers, Evansville, Ill. Wheeled trucks adapted to be attached to motor-cars. No. 149,579; Dec. 13.

Gramm-Bernstein Motor Truck Company, The, Lima, Ohio. Automobiles, motor-trucks, chassis, &c. No. 149,392; Dec. 13.

Great Atlantic and Pacific Tea Company, Jersey City, N. J. Sweeping compound. No. 149,390; Dec. 13.
Great West Mill & Elevator Co., Amarillo, Tex. Wheat-flour. Nos. 149,393–5; Dec. 13.
Great Western Smelting & Refining Company, Chicago, Ill. Solder. No. 149,396; Dec. 13.
Gust. & H. Probst, A. G., Langnau, Switzerland. Cheese. No. 149,397; Dec. 13.
Hadfields Limited, Sheffield, England. Certain unwrought and partly-wrought steel products. No. 149,398; Dec. 13.
Hall, John, Springfield, Ill. Mineral waters. No. 149,399; Dec. 13.
Hardright Company, The, Belleville, N. J. Lather-brushes. Nos. 149,400–3; Dec. 13.
Harris, D. F., Hardware & Manufacturing Co., Inc., New York, N. Y. Bicycles. No. 149,581; Dec. 13.
Hayden, Henry E., Washington, D. C. Vegetable liquid boiler compound and also antifreezing compound. No. 149,404; Dec. 13.
Himmel, M. L., & Son, Baltimore, Md. Showcases. No. 149,405; Dec. 13.
Horine & Bowery Company, Chicago, Ill. Imitation vanilla extract. No. 149,406; Dec. 13.
Hot Lunch Box Company, Milwaukee, Wis. Lunch-boxes. No. 149,582; Dec. 13.
Houdlett, Albert, & Sons, Inc., Brooklyn, N. Y. Certain musical instruments and parts thereof. No. 149,407; Dec. 13.
Howe Rubber Corporation, New Brunswick, N. J. Automobile tires and tubes of rubber. No. 149,583; Dec. 13.
Hutchison, B. M., Plymouth, England. Game apparatus. No. 149,408; Dec. 13.
Huyck, F. C., & Sons, Albany, N. Y. Certain rugs, blankets, couch and bed covers, &c. No. 149,409; Dec. 13.
Hydraulic Steel Company, The, Cleveland, Ohio. Rolled-steel sheets and rolled steel in various forms and finishes. Nos. 149,410–11; Dec. 13.
Insel Company, The, Newark, N. J. Non-breakable lamp-lenses. No. 149,412; Dec. 13.
International Milling Company, New Prague, Minn. Wheat-flour. No. 149,413; Dec. 13.
International Vegetable Oil Company, The, Atlanta, Ga. Prime summer yellow refined deodorized cottonseed oil. Nos. 149,414–15; Dec. 13.
Irokese Trading Corporation, New York, N. Y. Certain wood, paper, and metal toys. Nos. 149,416–18; Dec. 13.
Jaeger, Edmond, Paris, France. Indicators of revolution, speed-indicators, altitude-registering anemometers. No. 149,419; Dec. 13.
Jewell, Ariel C., Chicago, Ill. Non-alcoholic, non-cereal, maltless beverages and syrups for making same. No. 149,427; Dec. 13.
Jewett & Sowers Oil Co., The, Chicago, Ill. Motor-lubricating oils. No. 149,420; Dec. 13.
Johnson, Gertrude. (See Brown, Jack E., assignor.)
Johnson, John O., Chicago, Ill. Lawn-grass seeds. No. 149,584; Dec. 13.
Keystone Die Casting Co., Norristown, Pa. Ingots of non-ferrous metal. No. 149,421; Dec. 13.
Koehring Machine Company, assignors to Koehring Company, Milwaukee, Wis. Concrete mixers and distributing machines, loading-skips, paving-machines, traction-graders. No. 149,585; Dec. 13.
Kuehnle, C. Albert, Co., Inc., Philadelphia, Pa. Paints, ready-mixed and in paste form, varnishes, &c. No. 149,423; Dec. 13.
L & W Toe and Heel Savers, Newark, N. J. Toy and heel protectors. No. 149,436; Dec. 13.
Laskin, J., & Sons, New York, N. Y. Brown-dyed rabbit-skins. No. 149,428; Dec. 13.
Lasner & Bamberger Inc., New York, N. Y. Artificial pearls, precious, semiprecious, and imitation jewels. No. 149,586; Dec. 13.
Leach, David H., Sacramento, Calif. Talking-machines. No. 149,587; Dec. 13.
Lehner, John, Pittsburgh, Pa. Suction devices for dental plates. No. 149,429; Dec. 13.
Levy, S. J., San Francisco, Calif. Bottle-capping machines. No. 149,588; Dec. 13.
Leyse Aluminum Company, Kewaunee, Wis. Aluminum cooking utensils. No. 149,430; Dec. 13.
Libbey, W. S., Company, Lewiston, Me. Bed-blankets made of cotton and of a mixture of cotton and wool. No. 149,431; Dec. 13.
Liedel, H. A., & Son, Springfield, Ill. Cornmeal, graham and whole-wheat flour, dairy, cattle, &c., feeds. No. 149,432; Dec. 13.
Lightning Spark Plug Company, Los Angeles, Calif. Spark-plugs. No. 149,433; Dec. 13.
Lodge & Shipley Machine Tool Co., The, Cincinnati, Ohio. Lathe-heads. No. 149,589; Dec. 13.
Look-See Shop, The, Washington, D. C. Novelties in the form of curios, old prints, embroideries, &c. No. 149,434; Dec. 13.
Lorimier, Greenbaum Co. Inc., New York, N. Y. Worsted trimming for use in art-needlework. No. 149,435; Dec. 13.
Ludlow Typograph Company, Chicago, Ill. Typograph mechanism, line-casting and other machines and appliances, and parts thereof. No. 149,590; Dec. 13.
Lyttleton, Ollie S., Lexington, Ky. Laxative tablet for colds, coughs, headaches, &c. No. 149,437; Dec. 13.
Maatschappij Aco, Amsterdam and Ter Apel, Netherlands. Shuttles, shuttle-pegs, picking band-pegs, creel-pegs, and shuttle-peg pins. No. 149,442; Dec. 13.
Magnus, Saul & Henry G. Mosler, Los Angeles, Calif. Foods and ingredients of foods. No. 149,443; Dec. 13.
Manning Maxwell & Moore, Inc., New York, N. Y. Lathes, planers, slotters, boring-mills, wheel lathes, car wheel borers, axle-lathes, &c. No. 149,444; Dec. 13.
Manufacturing Jewelers Export Company, Incorporated, New York, N. Y. Jewelry and table and hollow ware. No. 149,445; Dec. 13.
Mappin & Webb Limited, London, England. Cutlery and table flat-ware, and nutcrackers. Nos. 149,446–7; Dec. 13.
Marathon Tire and Rubber Company, The, Cuyahoga Falls, Ohio. Golf-balls and golf-stick grips. No. 149,448; Dec. 13.
Marchant Calculating Machine Company, Oakland, Calif. Calculating-machines. No. 149,592; Dec. 13.
Marshall Field & Company, Chicago, Ill. Bed-spreads. No. 149,448; Dec. 13.
Marshall Field & Company, Chicago, Ill. Bleached gauze for medicinal and surgical purposes. No. 149,593; Dec. 13.
Martin Leather Company, Wilmington, Del. Leather. No. 149,449; Dec. 13.
Mascot Stove Manufacturing Co., Chattanooga, Tenn. Gas and coal ranges. No. 149,450; Dec. 13.
Mather, Harold H., Albany, N. Y. Shampoo and hair-tonic. No. 149,594; Dec. 13.
Mayflower Mills, Fort Wayne, Ind. Wheat-flower and self-rising wheat-flour. No. 149,451; Dec. 13.
McDougall-Butler Co. Inc., Buffalo, N. Y. Varnish. Nos. 149,438–9; Dec. 13.
McDougall-Butler Co. Inc., Buffalo, N. Y. Paint enamel. No. 149,440; Dec. 13.
McKay, William J., Chicago, Ill. Prepared poultry feed. No. 149,441; Dec. 13.
McKenna Brass & Manufacturing Co. Inc., Pittsburgh, Pa. Certain bottle-treating machines, fruit treating and canning machinery, carbonating-machines. No. 149,591; Dec. 13.
Medina Fruit Products Co., Inc., Medina, N. Y. Cider. Nos. 149,452–3; Dec. 13.
Mill and Mine Supply Co., Seattle, Wash. Power-driven pumps, drag-saws, and iron wedges, hammers, &c. No. 149,454; Dec. 13.
Miller Rubber Company, The, Akron, Ohio. Dolls. No. 149,455; Dec. 13.
Mirand Polish Company, Pittsburgh, Pa. Furniture and automobile polish. No. 149,456; Dec. 13.
Mirrors and picture-frames, Hand and wall. Tuskeloid Company, Nos. 149,527–8; Dec. 13.
Moeller, Annetta, Indianapolis, Ind. Containers for manicuring preparations, powders, and cosmetics, &c. No. 149,457; Dec. 13.
Mohawk Piston Ring Corporation, Cleveland, Ohio. Piston and packing rings. No. 149,458; Dec. 13.
Morgan Spring Company, Worcester, Mass. Wire articles. No. 149,459; Dec. 13.
Nagel, W. G., Electric Co., Toledo, Ohio. Ammeters and voltmeters, oil-pressure gages, oil-indicators. Nos. 149,595–6; Dec. 13.
Nash Engineering Co., South Norwalk, Conn. Air-compressors, vacuum-pumps, vacuum-heating pumps, boiler-feed pumps, &c. No. 149,460; Dec. 13.
National Enameling & Stamping Co., Milwaukee, Wis., and Baltimore, Md. Woven wicks. No. 149,597; Dec. 13.
National Paint Syndicate, Inc., New York, N. Y. Paint enamels, ready-mixed paints, varnishes, and furniture-polish. No. 149,461; Dec. 13.
National Tool Company, The, Cleveland, Ohio. Certain metal-working tools. No. 149,598; Dec. 13.
Neenah Paper Company, Neenah, Wis. Ledger, writing, and bond paper for writing and printing purposes. No. 149,462; Dec. 13.
New Jersey Car Spring & Rubber Co., Inc., Jersey City, N. J. Rubber belting and hose. No. 149,463; Dec. 13.
Nichthauser & Levy, Brooklyn, N. Y. Certain named tin, copper, galvanised, and japanned ware. No. 149,600; Dec. 13.
Nipple, E. & S., Company, Boston, Mass. Nursing-nipples. No. 149,599; Dec. 13.
Norfolk Truckers Exchange, Norfolk, Va. Fresh potatoes. No. 149,464; Dec. 13.
Oberman, D. M., Manufacturing Company, Jefferson City and California, Mo. Woolen piece goods. No. 149,601; Dec. 13.
O'Brien Varnish Company, South Bend, Ind. White enamel. No. 149,602; Dec. 13.
Openright Specialty Company, New York, N. Y. Tools for cutting the covers of sheet-metal cans and boxes. No. 149,466; Dec. 13.
Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. No. 149,467; Dec. 13.
Papanon, Peter N., Chicago, Ill. Fresh apples, potatoes, and milk, dressed chickens. No. 149,468; Dec. 13.
Parker-Kiskadden Company, Detroit, Mich. Transmission and like greases. No. 149,469; Dec. 13.
Patterson Lock Nut Mfg. Co., Chicago, Ill. Lock-nuts. No. 149,470; Dec. 13.
Paulson, Henry, Chicago, Ill. Files, gravers, tweezers, &c. No. 149,471; Dec. 13.

Paulson, Henry, Chicago, Ill. Polishing-buffs. No. 149,472; Dec. 13.
Peppard, Mayme J., Minneapolis, Minn. Hair-curlers. No. 149,603; Dec. 13.
Peters, M. C., Mill Co., Omaha, Nebr. Dairy feed. No. 149,473; Dec. 13.
Pfeiffer, Charles E., Paris, France. Cigarette-papers and tubes for cigarettes. Nos. 149,474–81; Dec. 13.
Phoenix Paint & Varnish Company, Philadelphia, Pa. Ready-mixed paints. No. 149,482; Dec. 13.
Pisek & Briscoe, Gallup, N. M. Blood-purifying solution for medicinal purposes. No. 149,604; Dec. 13.
Pittsburgh Tool Steel Wire Company, Monaca, Pa. Drill-rods and cold-drawn steel. No. 149,483; Dec. 13.
Pomeroy Ink Manufacturing Co., Newark, N. J. Mucilage, paste, and sealing-wax. No. 149,484; Dec. 13.
Portland Cordage Co., The, Portland, Oreg. Lariat-rope. No. 149,485; Dec. 13.
Porto Rico Consolidated Fruit Company, Buffalo, N. Y. Fresh fruits of tropical and semitropical origin. No. 149,486; Dec. 13.
Prange, Henry T., Kalamazoo, Mich. Glass cleansing and polishing liquid. No. 149,487; Dec. 13.
Preston Chemical Co. Inc., Brooklyn, N. Y. Preparation for certain named purposes. No. 149,605; Dec. 13.
Pruyn, Francis L., et al. (See Stim-U-Plant Tablet Co.)
Rafel, J. M., Co., Baltimore, Md. Corrugated-fiber packages, folding boxes, and paper boxes. No. 149,606; Dec. 13.
Red Wing Corporation Company, The, Dayton, Ohio. Dairy products. No. 149,488; Dec. 13.
Reid, Harriet B., Memphis, Tenn. Hair growing and pressing preparations. No. 149,607; Dec. 13.
Republic Match Company, Chicago, Ill. Impregnated matches. No. 149,489; Dec. 13.
Reynolds, Anna E., New York, N. Y. Cream for the complexion. No. 149,608; Dec. 13.
Rex Supply Company Inc., Oakland, Calif. Toilet tank ball-cocks and trough ball-cocks. No. 149,490; Dec. 13.
Ring, John A., York, Pa. Maltless soft drink. No. 149,609; Dec. 13.
Roberts, G. G., Corporation, Whitman, Mass. Channel-nails. No. 149,611; Dec. 13.
Rockford Milling Machine Company, Rockford, Ill. Calculating-machines. No. 149,610; Dec. 13.
Rodrigues, Valentin, New York, N. Y. Spanish paprika. No. 149,491; Dec. 13.
Roos, Henry W., Cincinnati, Ohio. Adjustable shores. No. 149,493; Dec. 13.
Rycroft, W. W., & Co., New York, N. Y. Cotton and wool dress goods in the piece. No. 149,494; Dec. 13.
Scheffer & Bossum Co., St. Paul, Minn. Stationary vulcanising plants. No. 149,497; Dec. 13.
Scranton Silk Machine Company, Scranton, Pa. Machinery used in the preparation and treatment of silk and silk manufactures. No. 149,499; Dec. 13.
Schram Glass Manufacturing Company, Hillsboro, Ill., and St. Louis, Mo. Glass fruit-jars. No. 149,612; Dec. 13.
Sebring Citrus Growers Association, Sebring, Fla. Fresh citrus fruits. No. 149,500; Dec. 13.
Sebleren, Chas. A., Company, New York, N. Y. Leather packings. No. 149,498; Dec. 13.
Sethness Company, Chicago, Ill. Malt and hop beverages. No. 149,501; Dec. 13.
Shallta Bros., New York, N. Y. Sheet-metal cans and pails. No. 149,502; Dec. 13.
Shurly, T. F., Co. Limited, St. Catharines, Ontario, Canada. Saws and machine-knives. No. 149,613. Dec. 13.
Sidenberg, G., & Co., New York, N. Y. Cotton piece goods. No. 149,503; Dec. 13.
Signode System, Inc., Chicago, Ill. Metal strapping for bails, wooden boxes, &c., and metallic fastening-seals for said strapping. No. 149,504; Dec. 13.
Sleeper & Hartley, Inc., Worcester, Mass. Wire working and other machines. No. 149,505; Dec. 13.
Smith, Hogg & Co., New York, N. Y. Cotton goods in the piece. No. 149,506; Dec. 13.
Smith, Lucius A., Buffalo, N. Y. Trusses. No. 149,507; Dec. 13.
Snyder, Andrew M., Hamilton, Ohio. Furniture and auto polish. No. 149,615; Dec. 13.
Solene Products Company, Perkasie, Pa. Chemical preparation for the removal of road tar from auto-bodies. No. 149,508; Dec. 13.
Sonora, Inc., New York, N. Y. Talking-machine and phonographs. No. 149,614; Dec. 13.
Spanish American Fruit Co., Inc., Pinlafield, N. J. Canned grapefruit. No. 149,615; Dec. 13.
Standard Asphalt & Refining Company, Jersey City, N. J., and Chicago, Ill. Bituminous puttles. No. 149,509; Dec. 13.
State Leaf Tobacco Co., The, New York, N. Y. Cigar-boxes. No. 149,510; Dec. 13.
Stearns & Foster Company, The, Lockland, Ohio. Cotton-batting, particularly glazed cotton wadding. Nos. 149,616–19; Dec. 13.
Stewart-Skinner Company, Worcester, Mass. Machinery and tools. No. 149,511; Aug. 13.
Stim U-Plant Tablet Co., Newark, N. J., assignor to F. L. Pruyn, New York, and J. B. Goldsborough, Croton-on-the-Hudson, N. Y. Plant food in tablet form. No. 149,512; Dec. 13.
Stoneward Corp., The, New York, N. Y. Maltless, non-alcoholic beverages. No. 149,513; Dec. 13.
Sturgis Steel Go-Cart Co., Sturgis, Mich. Baby-carriages and go-carts. No. 149,620; Dec. 13.
Swift and Company, Chicago, Ill. Washing-powder, laundry soap, and soap chips. No. 149,514; Dec. 13.
Temtor Corn & Fruit Products Co., St. Louis, Mo., and South Fort Smith, Ark. Stock feed or sweet feed. No. 149,516; Dec. 13.
Temtor Corn & Fruit Products Co., St. Louis, Mo. Stock feed. No. 149,517; Dec. 13.
Temtor Corn & Fruit Products Co., St. Louis, Mo., and South Fort Smith, Ark. Dairy feed. No. 149,518; Dec. 13.
Temtor Corn & Fruit Products Co., St. Louis, Mo., and South Fort Smith, Ark. Fattening feed for stock. No. 149,519; Dec. 13.
Temtor Corn & Fruit Products Co., St. Louis, Mo., and South Fort Smith, Ark. Horse and mule feed. No. 149,520; Dec. 13.
Texas Company, The, Houston, Tex., and New York, N. Y. Polishing-oil for painted and varnished surfaces. No. 149,521; Dec. 13.
Textile, Leather & Metal Preserver Co., Kalamazoo, Wis. Dressing for auto-tops, canvas, pantasote, mohair, leather, &c. No. 149,522; Dec. 13.
Toytown Manufacturing Company, Minneapolis, Minn. Toy wooden horses mounted on wheels. No. 149,525; Dec. 13.
Tripoli Importing Co., New York, N. Y. Olive-oil and black olives. No. 149,523; Dec. 13.
Tri-State Ice Cream Corporation, La Crosse, Wis. Ice-cream. No. 149,524; Dec. 13.
Tuckaway Folding Ladder Co., Inc., New York, N. Y. Folding ladders. No. 149,526; Dec. 13.
Uehling Instrument Co., Passaic, N. J., and New York, N. Y. Pyrometers and certain indicating and recording instruments. No. 149,529; Dec. 13.
United Soap Products Co., Rochester, N. Y. Preparation for use when dissolved in water in washing and cleaning. No. 149,530; Dec. 13.
United States Envelope Company, Springfield, Mass. Paper drinking-cups. No. 149,531; Dec. 13.
United States Asphalt Refining Company, New York, N. Y. Asphaltum base paint. No. 149,621; Dec. 13.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Golf-balls. No. 149,533; Dec. 13.
United Turkey Red Company, Glasgow, Scotland. Cotton handkerchiefs not in the piece. No. 149,534; Dec. 13.
United Turkey Red Company, Glasgow, Scotland. Cotton piece goods. No. 149,535; Dec. 13.
U. S. Industrial Chemical Co., Baltimore, Md. Fertilisers. No. 149,532; Dec. 13.
Van Antwerp's Drug Corporation, Inc., Mobile, Ala. Candy. No. 149,536; Dec. 13.
Van Doren, Harry W., Pulaski, Va. Non-alcoholic maltless beverage. No. 149,537; Dec. 13.
Van Vleet-Mansfield Drug Co., Memphis, Tenn. Medicinal preparation known as a chill-tonic. No. 149,538; Dec. 13.
Waldeck, Charles Alfred Company Inc., The. Vaporising apparatus. No. 149,539; Dec. 13.
Ward Baking Company, New York, N. Y. Cake. No. 149,540; Dec. 13.
Wash With Ease Company, Chicago, Ill. Clothes-washing powder. No. 149,622; Dec. 13.
Watkins, Frederick A., Chicago, Ill. Telephone-mouthpieces. No. 149,623; Dec. 13.
Weber Flour Mills Corporation, The, Salina, Kans. Wheat-flour. No. 149,541; Dec. 13.
"Weldrite" Company Incorporated, Long Island City, N. Y. Welding, cutting, and removing torches, tips, and parts thereof. No. 149,542; Dec. 13.
Wester Bros., New York, N. Y. Razors. No. 149,546; Dec. 13.
Western Cartridge Company, East Alton and Springfield, Ill. Targets and traps. Nos. 149,543–4; Dec. 13.
Western Electric Company, Incorporated, New York, N. Y. Paints and varnishes. No. 149,545; Dec. 13.
Western Wallboard Co., Seattle, Wash. Wall-board. No. 149,624; Dec. 13.
Westinghouse Union Battery Co., Swissvale, Pa. Secondary batteries and connectors therefor. No. 149,625; Dec. 13.
Whiting-Mead Commercial Co., Los Angeles, Calif. Plumbing supplies. No. 149,548; Dec. 13.
Wichita Flour Mills Co., The, Wichita, Kans. Wheat-flour. Nos. 149,549–50; Dec. 13.
Wilhelm, Henry, Company, Pittsburgh, Pa. Louisiana moss, used principally for upholstering purposes. No. 149,626; Dec. 13.
Winebrener, D. C., & Son, Inc., Frederick, Md. Coffee. No. 149,551; Dec. 13.
Wisconsin Compounding Company, Milwaukee, Wis. Furniture and automobile polish. No. 149,552; Dec. 13.
Wizard Foot Appliance Company, St. Louis, Mo. Certain corrective foot appliances. No. 149,553; Dec. 13.
Wolff, H., & Co., New York, N. Y. Scissors. No. 149,554; Dec. 13.
Wolfrom, Daniel D., San Francisco, Calif. Polish for automobiles, floors, wood and varnished surfaces. No. 149,555; Dec. 13.

Woods, George O., Fargo, N. D. Table game. No. 149,556; Dec. 13.
Woodson Spice Co., The, Toledo, Ohio. Coffee. No. 149,557; Dec. 13.
Woven Down Duster Company, Chicago, Ill. Dust-brushes. No. 149,558; Dec. 13.
Wright Rose B., Washington, D. C. Polishes for automobiles, furnitures, floors, &c. No. 149,559; Dec. 19.
Youngstown Company, The, New York, N. Y. Haircure. No. 149,560; Dec. 13.
York Heating and Ventilating Corporation, Philadelphia, Pa. Dust collectors and separators, heads, fans, and blowers. No. 149,827; Dec. 13.
Young, Frederick H., Toledo, Ohio. Toilet cream. No. 149,828; Dec. 24.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Andersen, Knute, Wausaukee, Wis. "State Highway." (For Cigar-Boxes for Cigars.) No. 23,719; Dec. 13.
Berry, Dr. C. H., Company, Chicago, Ill. "Kremola." (For Skin-Cream.) No. 23,720; Dec. 13.
Blatz, Val., Jr., Candy Co., Milwaukee, Wis. "Dreamy Dawn." (For Candy.) No. 23,721; Dec. 13.
Brechet & Richter Company, Minneapolis, Minn. "Frap-O." (For Syrup of Wild-Cherry Flavor.) No. 23,722; Dec. 13.
Burd High Compression Ring Company, Rockford, Ill. "Burd Quick Seating Piston Rings." (For Piston-Rings.) No. 23,723; Dec. 13.
California Bakery Company, Bisbee, Ariz. "Golden Crust Loaf." (For Bread.) No. 23,724; Dec. 13.
Candy Craft Shops, Inc., The, Chicago, Ill. "Candy Craft Bubble Box." (For Boxes for Candy Craft Bubble Box.) No. 23,725; Dec. 13.
Cole Lithographing & Printing Co., Chicago, Ill. "Mussolino." (For Cigars.) No. 23,726; Dec. 13.
Croker Packing Co., San Francisco, Calif. "Malt and Hops." (For Syrup.) No. 23,727; Dec. 13.
Decatur Brewing Company, Decatur, Ill. "White Banner." (For Hops.) No. 23,728; Dec. 18.
Dellinger, Henry. (See Menasha Printing and Carton Company, assignor.)
Ferguson, Jas., Santa Barbara, Calif. "Foothill Brand Honey." (For Honey.) No. 23,729; Dec. 13.
Fox, C. J., Company, The, Providence, R. I. "Hollandyke." (For Candy-Boxes.) No. 23,730; Dec. 13.
Fox, C. J., Company, The, Providence, R. I. "Whitewings." (For Candy-Boxes.) No. 23,731; Dec. 13.
Geyer, Edgar, Silver Creek, Nebr. "Geyer's Detachable Swinging Wash-Boiler Apron." (For Detachable Swinging Washboiler-Apron.) No. 23,732; Dec. 13.
Gould Millinery Co., Inc., The, Los Angeles, Calif. "Le Chapeau Chic." (For Ladies' and Children's Hats.) No. 23,733; Dec. 13.
Graf Bros. Inc., New York, N. Y. "Hyglo Hair Net." (For Hair-Nets.) No. 23,734; Dec. 13.
Holeproof Hosiery Co., Milwaukee, Wis. "With All Good Wishes." (For Hosiery.) No. 23,735; Dec. 13.
Imperial Perfume Co., New York, N. Y. "Brioline for Dressing the Hair." (For Liquid Hair-Dressers.) No. 23,736; Dec. 13.
Inderrieden Canning Co., Chicago, Ill. "Marcella." (For Canned Peas.) No. 23,737; Dec. 13.
International Dry Milk Co., Minneapolis, Minn. "Cream-On." (For Powdered Milk.) No. 23,738; Dec. 18.
Johnson-Earl Meyers Co., Pittsburgh, Pa. "Cup and Saucer." (For Coffee.) No. 23,739; Dec. 13.
Latorraca Bros., New York, N. Y. "Tomato Paste." (For Tomato Paste.) No. 23,741; Dec. 13.
Loft, Inc., New York, N. Y. "Briarcliff Milk Chocolates." (For Candies.) No. 23,740; Dec. 18.
Los Angeles Creamery Company. (See Menasha Printing and Carton Company, assignor.)
May Hosiery Mills, The, Burlington, N. C. "B. V. May." (For Hosiery.) No. 23,742; Dec. 13.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Sencabaugh Company, Cleveland, Ohio. "Lak-Side Brand Butter." (For Cartons Containing Butter.) No. 23,743; Dec. 13.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Henry Dellinger, Philadelphia, Pa. "Dellinger's." (For Cartons Containing Butter.) No. 23,744; Dec. 13.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Waterloo Ice Cream Company, Waterloo, Iowa. "Crowell's Wicco." (For Cartons Containing Ice-Cream.) No. 23,745; Dec. 13.)
Menasha Printing and Carton Company, Menasha, Wis., assignor to Los Angeles Creamery Company, Los Angeles, Calif. "The Cream Supreme." (For Cartons Containing Ice-Cream.) No. 23,746; Dec. 18.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Vincennes Milk & Ice Cream Company, Vincennes, Ind. "Tip Top." (For Cartons Containing Ice-Cream.) No. 23,747; Dec. 18.
Milligan, G. D., Grocer Co., Springfield, Mo. "Missouri." (For Overalls.) No. 23,748; Dec. 13.
Milwaukee Paper Box Company, Milwaukee, Wis. "Old Mexican Cactus Candy." (For Boxes Containing Candy.) No. 23,749; Dec. 13.
Moreas Importing & Exporting Co., Chicago, Ill. "The Famous Agouroladon." (For Olive-Oil.) No. 23,750; Dec. 13.
Morvillo, Mariano, New York, N. Y. "Pruno-Lax." (For Laxatives.) No. 23,751; Dec. 13.
Mott & Wood Co., Wisconsin Rapids, Wis. "Heathmade Arrow Brand Butter." (For Butter.) No. 23,752; Dec. 13.
Northrup, King & Co., Minneapolis, Minn. "Northrup, King & Co.'s Special Scratch Feed." (For Bags of Poultry Feed.) No. 23,753; Dec. 13.
Pfaffmann Egg Noodle Co., The, Cleveland, Ohio. "Fine Illinois Egg Noodles." (For Noodles.) No. 23,754; Dec. 13.
Pfaffmann Egg Noodle Co., The, Cleveland, Ohio. "Broad Climax Egg Noodles." (For Noodles.) No. 23,755; Dec. 13.
Pfaffmann Egg Noodle Co., The, Cleveland, Ohio. "Broad Star Noodles." (For Noodles.) No. 23,756; Dec. 16.
Pfaffmann Egg Noodle Co., The, Cleveland, Ohio. "Fine Star Noodles." (For Noodles.) No. 23,757; Dec. 13.
Pfaffmann Egg Noodle Co., The, Cleveland, Ohio. "Red-D-Cut Macaroni." (For Macaroni.) No. 23,758; Dec. 13.
Real Silk Hosiery Mills, Indianapolis, Ind. "Real Silk Fashioned Hosiery." (For Containers for Hosiery.) Nos. 23,759–60; Dec. 18.
Real Silk Hosiery Mills, Indianapolis, Ind. "Real Silk Hose." (For Containers for Hose.) No. 23,761; Dec 13.
Rubens, Chas., & Co., Chicago, Ill. "Lady Prim." (For Hair-Nets.) No. 23,762; Dec. 13.
Samstag & Hilder Bros., New York, N. Y. "The Noble Lady." (For Hair-Nets.) No. 23,763; Dec. 13.
Sanders and Weinstein, New York, N. Y. "Tailored—Ready Art Clothes." (For Clothing.) No. 23,764; Dec. 13.
Schulz, George L., Saginaw, Mich. "Sally." (For Cigars.) No. 23,765; Dec. 13.
Sencabaugh Company. (See Menasha Printing and Carton Company, assignor.)
Sittler Brothers, Chicago, Ill. "Pure Fresh Grated Horse Radish." (For Bottles or Jars of Horse-Radish.) No. 23,766; Dec. 13.
Sloan, Mrs. Emily, Los Angeles, Calif. "Marvello Washing Powder." (For Cartons Containing the Washing-Powder.) No. 23,767; Dec. 13.
Solliday, Charles H., Dayton, Ohio. "Klip." (For Cigars.) No. 23,768; Dec. 13.
Standard Oil Company, San Francisco, Calif. "Pearl Oil." (For Five-Gallon Cans Containing Illuminating and Heating Oils and on the Cases in Which the said Cans are Packed.) No. 23,769; Dec. 13.
Taggart Baking Company, Indianapolis, Ind. "Taggart's Wonder Bread." (For Bread.) No. 23,775; Dec. 13.
Triangle Chemical Co., Chicago, Ill. "No Rat." (For Containers for a Rat-Exterminator.) No. 23,770; Dec. 13.
Triangle Chemical Co., Chicago, Ill. "No-Bed Bug." (For Containers for a Bedbug-Exterminator.) No. 23,771; Dec. 13.
Triangle Chemical Co., Chicago, Ill. "No-Roach." (For Containers for a Roach-Exterminator.) No. 23,772; Dec. 13.
Triangle Chemical Co., Chicago, Ill. "No-Insect." (For Containers for an Insect-Exterminator.) No. 23,773; Dec. 13.
Vincennes Milk & Ice Cream Company. (See Menasha Printing and Carton Company, assignor.)
Ward Baking Company, New York, N. Y. "Ward's Pound Cake." (For Cake.) No. 23,776; Dec. 13.
Warne, Frederick, & Co. Ltd., New York, N. Y. "Peter Rabbit's Race Game." (For Cover of Box Containing the Game.) No. 23,777; Dec. 13.
Waterloo Ice Cream Company. (See Menasha Printing and Carton Company, assignor.)
Western Bottle Manufacturing Company, Chicago, Ill. "Gainsborough Genuine Hair Net." (For Hair-Nets.) No. 23,774; Dec. 13.
Westinghouse Lamp Company, Bloomfield, N. J. "Spark-C." (For Electrical Apparatus, Machinery, and Supplies, Particularly Potential-Detectors.) No. 23,778; Dec. 13.
Westmoreland Candy Company, Inc., Richmond, Va. "Peconut Crisp." (For a Nut Confection in the Form of Candy.) No. 23,779; Dec. 13
White, Clinton R., Chicago, Ill. "Silverine." (For Toilet-Paper.) No. 23,780; Dec. 13.
White, Clinton R., Chicago, Ill. "World Wide." (For Toilet-Paper.) No. 23,781; Dec. 13.
White, Clinton R., Chicago, Ill. "Gold Band." (For Toilet-Paper.) No. 23,782; Dec. 13.
White, Clinton R., Chicago, Ill. "Equator." (For Toilet-Paper.) No. 23,783; Dec. 13.
White, Clinton R., Chicago, Ill. "Canyon." (For Toilet-Paper.) No. 23,784; Dec. 13.
White, Clinton R., Chicago, Ill. "Coast to Coast." (For Toilet-Paper.) No. 23,785; Dec. 13.
White, Clinton R., Chicago, Ill. "Delta." (For Toilet-Paper.) No. 23,786; Dec. 13.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

American Lead Pencil Company, New York, N. Y. "Blue Band Velvet Pencil." (For Advertising Purposes for Lead-Pencils.) No. 5,845; Dec. 13.
American Lead Pencil Company, New York, N. Y. "Venus Pencils C 37." (For Advertising Purposes for Lead-Pencils.) No. 5,846; Dec. 13.
American Lead Pencil Company, New York, N. Y. "Venus Pencils C 39." (For Advertising Purposes for Lead-Pencils.) No. 5,847; Dec. 13.
American Lead Pencil Company, New York, N. Y. "Venus Copying Pencils." (For Advertising Purposes for Copying-Pencils.) No. 5,848; Dec. 13.
American Lead Pencil Company, New York, N. Y. "Venus Thin Leads." (For Advertising Purposes for Lead-Pencils.) No. 5,849; Dec. 13.
American Lead Pencil Company, New York, N. Y. "Ink-Can Indelible Duplicating Pencil." (For Advertising Purposes for Indelible Pencils.) No. 5,850; Dec. 13.
American Lead Pencil Company, New York, N. Y. "Venus Everpointed Pencils." (For Advertising Purposes for Lead-Pencils.) No. 5,851; Dec. 13.
California Chocolate Shops, Inc., Los Angeles, Calif. "Quinby's." (For Advertising Purposes for Chocolates.) No. 5,852; Dec. 13.
Carberry, Johanna M., *et al.*, trustees. (See Powers, James P., assignor.)
Dickinson, Albert, Company, The, Chicago, Ill. "Dickinson's Snow Ball Pop Corn." (For Advertising Purposes for Dickinson's Popcorn.) No. 5,853; Dec. 13.
Dickinson, Albert, Company, The, Chicago, Ill. "Dickinson's Santa Claus Pop Corn." (For Advertising Purposes for Dickinson's Popcorn.) No. 5,854; Dec. 13.
Genesee Pure Food Company, The, Le Roy, N. Y. "New England School Room Scene." (For Advertising Purposes for Jell-O.) No. 5,855; Dec. 13.
Genesee Pure Food Company, The, Le Roy, N. Y. "The Linn Ball Strawberry Jell-O." (For Advertising Purposes for Jell-O.) No. 5,856; Dec. 13.
Genesee Pure Food Company, The, Le Roy, N. Y. "The Southern Scene." (For Advertising Purposes for Jell-O.) No. 5,857; Dec. 13.
Genesee Pure Food Company, The, Le Roy, N. Y. "The Linn Ball Panel." (For Advertising Purposes for Jell-O.) No. 5,858; Dec. 13.
Grayson, J. H., Manufacturing Co., The, Athens, Ohio. "Realization." (For Advertising Purposes for Gas-Heaters.) No. 5,859; Dec. 13.
Grayson, J. H., Manufacturing Co., The, Athens, Ohio. "Anticipation." (For Advertising Purposes for Gas-Heaters.) No. 5,860; Dec. 13.
Grayson, J. H., Manufacturing Co., The, Athens, Ohio. "Expectation." (For Advertising Purposes for Gas-Heaters.) No. 5,861; Dec. 13.
Hills Bros., San Francisco, Calif. "Quality Inn." (For Advertising Purposes for Coffee.) No. 5,862; Dec. 13.
Hills Bros., San Francisco, Calif. "Thoroughbreds." (For Advertising Purposes for Coffee.) No. 5,863; Dec. 13.)
Hills Bros., San Francisco, Calif. "The Winning Cup." (For Advertising Purposes for Coffee.) No. 5,864; Dec. 13.
Holland-O'Neal Milling Co., Springfield, Ohio. "Susanne." (For Advertising Purposes for Flour.) No. 5,865; Dec. 13.
Kant-Rust Products Corporation, Rahway, N. J. "Kant-Rust." (For Advertising Purposes for Rust Preventing and Removing Composition.) No. 5,866; Dec. 13.
Meyer, H. H., Packing Company, The, Cincinnati, Ohio. "Remove All Doubt! Order Partridge Ham and Bacon." (For Advertising Purposes for Ham and Bacon.) No. 5,867; Dec. 13.
Niss, C. & Sons, Inc., Milwaukee, Wis. "The Niss Plan." (For Advertising Furniture for Homes.) Nos. 5,868–9; Dec. 13.
Palmolive Company, The, Milwaukee, Wis. "The Picture He Carried Away." (For Advertising Purposes for Palmolive Soap.) No. 5,875; Dec. 13.
Peerless Ice Cream Co., Sacramento, Calif. "Its Flavor Means Pleasure, Its Purity Means Health." (For advertising Purposes for Ice-Cream.) No. 5,871; Dec. 13.
Powers, James P., Buffalo, N. Y., assignor to J. P. Powers, J. M. Carberry, and M. A. Powers, Buffalo, N. Y., as trustees for New Process Refining Company. "Amoreco' is King of All Motor Gasolines." (For Advertising Purposes for Gasolene.) Nos. 5,872–3; Dec. 13.
Powers, James P. *et al.*, trustees. (See Powers, James P., assignor.)
Powers, Mary A., *et al.*, trustees. (See Powers, James P., assignor.)
Remington Typewriter Co., Inc., New York, N. Y. "Remington." (For Advertising Purposes for Typewriters.) No. 5,874; Dec. 13.
Schrader's, A., Son, Incorporated, Brooklyn, N. Y. "Schrader-Universal Valve Caps." (For Advertising Purposes for Valve-Caps.) No. 5,875; Dec. 13.
Schrader's, A., Son, Incorporated, Brooklyn, N. Y. "Wilful Destruction." (For Advertising Purposes for Tire-Pressure Gages.) No. 5,876; Dec. 13.
Wocher, Max, & Son Co., The, Cincinnati, Ohio. "Goodyear's Tonsil Instrument." (For Advertising Purposes for Removal of Tonsils.) No. 5,877; Dec. 13.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Alexander, Clinton B., Washington, D. C. Loose-leaf binders, sheets, and posts or thongs therefor. No. 150,721; Dec. 13.
Allen Filter Company, The, Toledo, Ohio. Filters, water-coolers, and beverage-coolers. No. 139,902; Dec. 13.
American Wholesale Corporation. (Baltimore Bargain House.) Baltimore and Cumberland, Md. Hair-nets No. 153,171; Dec. 13.
Archer Strauss Rubber Company, Framingham, Mass. Waterproof fabric. No. 153,775; Dec. 13.
Art Metal Works, The, Newark, N. J. Combination pocket-pencils, and pocket-lighters. No. 153,279; Dec. 13.
A/S. Landbrugsmaskin-Kompagniet (The Agricultural-Machinery Co., Ltd.,) Copenhagen, Denmark. Tractors, reapers, binders, &c. No. 125,073; Dec. 13.
Associated Lamp Company, New Orleans, La. Lamps (incandescent) and lamp-testers. No. 151,346; Dec. 13.
Atlanta Barbers' Supply Co., Atlanta, Ga. Perfumery, face-creams, and toilet waters. No. 141,937; Dec. 13.
Atlanta Barbers' Supply Co., Atlanta, Ga. Hair-tonics. No. 142,195; Dec. 13.
Barnet Leather Co., Inc., New York, N. Y. Calf-leather. No. 150,993; Dec. 18.
Barrett, Denton & Lynn Co., Dalton, Ga. Wheat-flour. No. 151,142; Dec. 18.
Beck-Yan Sicien & Co., San Francisco, Calif. Wheat-flour. No. 137,913; Dec. 13.
Bengol Company, The, Indianapolis, Ind. Lubricating-oil. No. 143,552; Dec. 13.
Bernhard Ulmann Co., Inc., New York, N. Y. Woven textile fabrics in the piece used as foundation for art-needlework. No. 150,098; Dec. 13.
Bianchini, Ferier, Lyon, France. Piece goods of silk, wool, and cotton. Nos. 154,477–8; Dec. 13.
Blatt, Armand V., New York, N. Y. Hair-nets. No. 154,116; Dec. 13.
Bluff City Shoe Company, The, Hannibal, Mo. Shoes of leather, canvas, rubber, or combinations of same. No. 150,728; Dec. 13.
Bluff City Shoe Company, The, Hannibal, Mo. Shoes of leather, canvas, rubber, or combinations of same. No. 150,799; Dec. 13.
Boston Manufacturing Company, 1901, The, Waltham, Mass. Cotton piece goods. No. 153,915; Dec. 13.
Bowman, Geo. H., Company, The, Cleveland, Ohio. Toy tea and cooking sets. No. 154,476; Dec. 13.
Bozzard, Ernest M., San Jacinto, Calif. Face-cream. No. 152,531; Dec. 13.
Brown, Susan E., Harrow, England. Face creams and powders, &c., for theatrical make-up. No. 150,804; Dec. 18.
Byrd, Clement, Smithfield, N. C. Headache remedy and a preparation for the relief of neuralgia, &c. No. 151,572; Dec. 13.
California Cotton Mills company, Oakland, Calif. Fringed, hemmed, and bath cloth towels, toweling, &c. No. 150,640; Dec. 13.
California Cotton Mills Company, Oakland, Calif. Burlap. No. 154,177; Dec. 13.
Canales, Juan, Findlay, Ohio. Salve for use in treatment of neuralgia, rheumatism, &c. No. 151,866; Dec. 13.
Central Brass & Fixture Company, The, Springfield, Ohio. Bumpers for automobiles side wind-deflectors for automobiles, &c. No. 151,657; Dec. 13.
Charak, Walter S., New York, N. Y. Lotion for external use on face and body and for a liniment for rheumatism, &c. No. 152,202; Dec. 13.
Chastang, Geneva, Birmingham, Ala. Hair-growers, hair-pressing oils and perfumes. No. 152,001; Dec. 13.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Cheramy, Incorporation, New York, N. Y. Brilliantine, face-powder, face-cream, toilet water, &c. No. 152,064; Dec. 13.

Chicago Belting Company, Chicago, Ill. Welting. No. 151,146; Dec. 13.

Coast Manufacturing & Supply Company, Livermore, Calif. Non-electrical safety-fuse. No. 148,980; Dec. 13.

Coffey, William M., Texarkana, Texas. Rat-poison. No. 139,251; Dec. 13.

Cook, Harry, London, England. Powder for destroying beetles and cockroaches. No. 152,700; Dec. 13.

Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif. Piece goods. No. 148,712; Dec. 13.

Corbett Bros. Co., Paterson, N. J., and New York, N. Y. Ribbons in the piece. No. 150,848; Dec. 13.

Corbett Brothers Co., Paterson, N. J., and New York, N. Y. Ribbons in the piece. No. 152,853; Dec. 13.

Corona Rubber Manufacturing Co., Philadelphia, Pa. Golf-balls. No. 154,124; Dec. 13.

Cyrus R. Meyer, Baltimore, Md. Soap. No. 153,182; Dec. 13.

Daugherty, George S., Blue River, Wis. Spark-plugs. No. 149,323; Dec. 13.

Dayton Color Works Company, The, Dayton, Ohio. Flat wall-paint. No. 154,120; Dec. 13.

Douglass, Lloyd A., Washington, D. C. Soap, preferably powdered. No. 137,605; Dec. 13.

Douropoulos, Alexandra C., Arlington, Mass. Medicinal preparation for diabetes. No. 152,864; Dec. 13.

Du Pont, E. I. de Nemours & Company, Wilmington, Del. Dyestuff intermediates. No. 149,953; Dec. 13.

Eagle Motor Truck Corporation, St. Louis, Mo. Automobile motor-trucks. No. 153,343; Dec. 13.

Edwards, Louis F., New York, N. Y. Composition for preventing and removing boiler incrustations. No. 153,651; Dec. 13.

Ely & Walker Dry Goods Company, St. Louis, Mo. Ginghams, cotton piece goods. No. 153,970; Dec. 13.

Eshleman, Amy M., Lancaster, Pa. Dolls. No. 154,265; Dec. 13.

Essayan, Harold G., Providence, R. I. Finger-rings, pendants, brooch-pins, ear-rings. No. 149,276; Dec. 13.

Exerswing Company, Minneapolis, Minn. Swings. No. 154,684; Dec. 13.

Eyben, René, New York, N. Y. All kinds of perfumes. No. 152,243; Dec. 13.

Farah, Kalil, Toronto, Ontario, Canada. Bedsteads, couches, reclining-chairs, and hospital-bedsteads. No. 137,876; Dec. 13.

Federal Rubber Company, The, Cudahy, Wis. Vehicle-tires, outside tire-sleeves, inside tire-sleeves, &c. No. 146,901; Dec. 13.

Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. Nos. 154,133–8; Dec. 13.

Gebrüder, Bühler, Uzwil, Switzerland. Ventilators, drying apparatus for paste goods, &c. No. 151,821; Dec. 13.

General Electric Company, Schenectady, N. Y. Vacuum-tubes. No. 152,325; Dec. 13.

General Manufacturing Company, The, Sioux City, Iowa. Lead-pencils having means for feeding forward the lead. No. 151,316; Dec. 13.

Gerke, Frederic L., New York, N. Y. Metal preservatives. No. 153,659; Dec. 13.

Gladding, B. F., & Co. Inc., South Otselic, N. Y. Waterproof braided silk fishing-lines. No. 154,445; Dec. 13.

Gladding, B. F., & Co. Inc., South Otselic, N. Y. Casting-lines. No. 154,555; Dec. 13.

Gladding, B. F., & Co. Inc., South Otselic, N. Y. Bait or fly casting fishing-lines. No. 154,557; Dec. 13.

Gladding, B. F., & Co. Inc., South Otselic, N. Y. Braided silk casting-lines. No. 154,590; Dec. 13.

Gladding, B. F., & Co. Inc., South Otselic, N. Y. Silk waterproof and enameled silk fishing-lines. No. 154,697; Dec. 13.

Gladding, B. F., & Co. Inc., South Otselic, N. Y. Enameled-silk fly-fishing lines. No. 154,690; Dec. 13.

Gladding, B. F., & Co. Inc., South Otselic, N. Y. Minnow-casting lines. No. 154,692; Dec. 13.

Gladding, B. F., & Co. Inc., South Otselic, N. Y. Hard braided casting-lines. No. 154,734; Dec. 13.

Gladding, B. F., & Co. Inc., South Otselic, N. Y. Irish-linen bass-lines. No. 154,736; Dec. 13.

Gladding, B. F., & Co. Inc., South Otselic, N. Y. Linen reel-lines. No. 154,737; Dec. 13.

Gladding, B. F., & Co. Inc., South Otselic, N. Y. Waterproof braided silk casting-lines. No. 154,740; Dec. 13.

Graff, George B., Company, Somerville, Mass. Paper-clips. No. 150,444; Dec. 13.

Grisate, Wiley G., Summerton, S. C. Chill-tonic and mange remedy. No. 149,961; Dec. 13.

Gross, Zoldo & Ronay Inc., New York, N. Y. Finger-rings and mountings therefor. No. 149,637; Dec. 13.

Guarantee Hair and Novelty Works, The, New York, N. Y. Hair-nets. No. 153,975; Dec. 13.

Hadfields Limited, Sheffield, England. Projectiles (non-explosive), Armor-piercing and high-explosive projectiles, heavy ordnance, &c. No. 136,257; Dec. 13.

Harris, R. & Co., Washington, D. C. Pearls. No. 148,068; Dec. 13.

Hauser & Weil, New York, N. Y. Writing-cases. No. 152,424; Dec. 13.

Hood River Spray Company, Hood River, Oreg. Concentrated spray composition for vegetation, &c. No. 153,728; Dec. 13.

Hooven Automatic Typewriter Corporation, Hamilton, Ohio. Typewriter-operating machine, perforating machines, &c. No. 149,762; Dec. 13.

Hope Company, Providence, R. I. White and bleached cotton goods in the piece. No. 152,708; Dec. 13.

Horton, G. F., Houston, Tex. Asphalt preparation. No. 154,161; Dec. 13.

Houghton, E. F., & Co., Philadelphia, Pa. Surface-hardening powders for steel. No. 151,947; Dec. 13.

Houstock, R. H., & Co., St. Louis, Mo. Medicinal preparation used for the relief of headache, neuralgia, &c. No. 152,561; Dec. 13.

Hunt, J. L., Ponca City, Okla. Hair tonic and restorer. No. 153,549; Dec. 13.

Hoyt, F. M., Shoe Company, Manchester, N. H. Leather boots and shoes. No. 151,457; Dec. 13.

International Consolidated Chemical Corporation, Inc., New York, N. Y. Medicinal preparation for intestinal toxemia. Nos. 152,892–3; Dec. 13.

Janovici & Co. Inc., New York, N. Y. Artificial or imitation pearls. No. 153,811; Dec. 13.

Johnston, Wm. R., Mfg. Co., Chicago, Ill. Rear-view mirrors. No. 151,544; Dec. 13.

Jordan Marsh Company, Boston, Mass. Fountain-pens and lead-pencils. No. 151,993; Dec. 13.

Kal-Kal Laboratories, Inc., Buffalo, N. Y. Salves to be used for wounds, sores, skin trouble, &c. No. 150,275; Dec. 13.

King Manufacturing Company, The, St. Joseph, Mo. Electric lamps and electric-lamp fixtures. No. 153,581; Dec. 13.

Klavon, James J., Pittsburgh, Pa. Corn remedies. No. 148,803; Dec. 13.

Kurowski, Alfred G. F., Brooklyn, N. Y. Visors for windshields of vehicles. No. 151,060; Dec. 13.

Larsen, Howard R., Milwaukee, Wis. Dolls. No. 154,802; Dec. 13.

Laubsch, Jannis, Detroit, Mich. Liniment for neuralgia, rheumatism, &c. No. 147,299; Dec. 13.

Lazier, J. F., Mfg. Co., St. Louis, Mo. Metal bottle-caps. No. 154,372; Dec. 13.

Leckie Coal Company Inc., Norfolk, Va., and Columbus, Ohio. Coal. Nos. 149,759–60; Dec. 13.

Lorraine Mfg. and Importing Company, Grand Haven, Mich. Hair-nets. No. 147,882; Dec. 13.

Lundeen, Ernest, Minneapolis, Minn. Monthly publication. No. 135,007; Dec. 13.

Magnavox Co., The, Oakland, Calif. Electrical sound-amplifying devices, telephones, &c. No. 150,076; Dec. 13.

Maguire & Co., Inc., New York, N. Y. Gray sheetings, drills, jeans, &c., bleached sheetings, drills, &c. No. 154,362; Dec. 13.

Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. No. 154,151; Dec. 13.

Marshall Field & Company, Chicago, Ill. Bedspreads. No. 140,322; Dec. 13.

Martyn Soap Company Inc., New Orleans, La. Shampoo preparation. No. 150,280; Dec. 13.

Maybaum Bros., Inc., New York, N. Y. Pearls. No. 153,084; Dec. 13.

Mayflower Worsted Company, Kingston, Mass. Worsted goods for men's suiting. No. 154,231; Dec. 13.

McArthur, Clarence M., Detroit, Mich. Tooth powder or liquid. No. 145,607; Dec. 13.

McKnight, John P., Dublin, Ireland. Woolen piece goods. No. 153,739; Dec. 13.

Merck and Co., New York, N. Y. Extract of yeast for medicinal purposes. No. 152,340; Dec. 13.

Merck and Co., New York, N. Y. Tablets for preparing hydrogen-perozid solutions. No. 152,376; Dec. 13.

Merrimac Drug Company, Inc., New York, N. Y. Antiseptics. No. 152,855; Dec. 13.

Mittelstaedt, Edward L., New York, N. Y. Perfume extracts and toilet waters. No. 152,047; Dec. 13.

Morene Products Co., Inc., New York, N. Y. Waterproofing compound for use in connection with stone, &c. Nos. 152,081–2; Dec. 13.

Morene Products Co., Inc., New York, N. Y. Waterproofing compound for use in connection with stone, brick, &c. No. 152,377; Dec. 13.

Morrell, John, & Company, Ottumwa, Iowa. Hams, shoulders, boneless butts, eggs, &c. Nos. 147,360–1; Dec. 13.

National Trading Company, Chicago, Ill. Hair-nets. No. 154,062; Dec. 13.

Neuss, Hesslein & Co., Inc., New York, N. Y. Woven cotton piece goods. No. 121,908; Dec. 13.

Nicodemus, John H., Saginaw, Mich. Preparation for treatment of blood-poisoning, boils, &c. No. 151,842; Dec. 13.

Novak, John, Company, Chicago, Ill. Blood tonic tablets. No. 151,807; Dec. 13.

Overbrook Piano Company, Philadelphia, Pa. Pianos and player-pianos. No. 149,597; Dec. 13.

Penna. Poultry Farm Remedies Co., The, Lancaster, Pa. Poultry tonics and regulators. No. 151,849; Dec. 13.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Permanent Wave Machine and Supply Corporation, The, New York, N. Y. Electrical hair-waving appliance. No. 152,136; Dec. 13.

Peterson, Otto, Fort Bragg, Calif. Hair-tonics. No. 154,284; Dec. 13.

P. H. & F. M. Roots Co., The, Connersville, Ind. Rotary blowers, gas, water, and vacuum pumps, &c. No. 151,888; Dec. 13.

Pohlson, Carl V., Pawtucket, R. I. Rattles, human and animal figure toys, &c. No. 151,846; Dec. 13.

Protex Fuse Works, Cleveland, Ohio. Fuses. No. 142,530; Dec. 13.

Quigly Furnace Specialties Co., Incorporated, New York, N. Y. Carbureting boxes and pots. No. 133,022; Dec. 13.

Rankin Mills Inc., Gastonia, N. C. Cotton yarns. No. 127,188; Dec. 13.

Retsof Mining Company, New York, N. Y. Salt. No. 138,053; Dec. 13.

Reynolds, Mrs. W. H., Bremerton, Wash. General tonic and blood-purifier. No. 150,370; Dec. 13.

Robins, I. Simpson, Chicago, Ill. Rhubarb laxative medicinal preparation. No. 149,099; Dec. 13.

Rogers, Francis J., Parkersburg, W. Va. Apple-butter, allspice, asparagus, beef fat, bottled fruits, &c. No. 137,495; Dec. 13.

Roth, G. A., Manufacturing Co., Hastings, Nebr. Luggage-carriers and commercial luggage-standards. No. 147,695; Dec. 13.

Sachs, George M., New York, N. Y. Prepared business-charts. No. 151,060; Dec. 13.

Sanosym Incorporated, New York, N. Y. Dentifrice in the form of a paste, wash, or powder. No. 152,772; Dec. 13.

Scott County Milling Company, The, Sikeston, Mo. Stock and poultry feed. No. 150,294; Dec. 13.

Seaboard Textile Co. Inc., New York, N. Y. Cotton fabrics in the piece. No. 150,713; Dec. 13.

Sherwin-Williams Company, The, Cleveland, Ohio. Insulating-varnish and material for filling electrical coils. No. 137,051; Dec. 13.

Shores-Muller Company, Cedar Rapids, Iowa. Mineral feed for animals and poultry. No. 151,236; Dec. 13.

Simplex Windshield Wing Co., Chicago, Ill. Windshields for motor-vehicles. No. 146,665; Dec. 13.

Société Anonyme des Anciens Etablissements Secqueville & Hoyau, Gennevilliers, France. Automobiles. No. 138,029; Dec. 13.

Societe Francaise D'Orfevrerie D'Art, Paris, France. Boxes, baskets, cups and saucers, knives, forks, glassware, &c. No. 125,585; Dec. 13.

Sofge, John, Cincinnati, Ohio. Paper for household use. No. 150,976; Dec. 13.

Special Service Flooring Corporation, New York, N. Y. Magnesium oxychlorid flooring. No. 154,938; Dec. 13.

Spiegel, Max., & Sons Co. Inc., New York, N. Y. Cigarette-papers. No. 151,891; Dec. 13.

Standard Oil Company, (Incorporated in New Jersey,) Bayonne, N. J., and New York, N. Y. Ammonium sulfolchthyolate. No. 153,528; Dec. 13.

Standard Paper Company, Bellows Falls, Vt. Sealing-tape. No. 148,856; Dec. 13.

Standard Ultramarine Co., The, Huntington, W. Va. Laundry-blue. No. 132,065; Dec. 13.

Steel Wings Company, Chicago, Ill. Vehicle-springs, shock-absorbers, and recoil-checks. No. 153,318; Dec. 13.

Stern, Joseph B., Montgomery, Ala. Farm journal published monthly. No. 137,714; Dec. 13.

Suffern, Robert A., New York, N. Y. Cotton piece goods. No. 154,333; Dec. 13.

Symonds, Frank P., Salem, Mass. Insecticides. No. 134,551; Dec. 13.

Texas Wagon Works, Inc., The, Houston, Tex. Truck-bodies. No. 154,071; Dec. 13.

Thau, Charles K., New York, N. Y. Hair-nets. Nos. 154,243–4; Dec. 13.

Thornycroft, John I., & Co., Limited, Westminster, England. Commercial motor-vehicles. No. 150,943; Dec. 13.

Tisco Company, The, Chicago, Ill. Flavoring extracts for food and essential oil for food purposes. No. 150,491; Dec. 13.

Triumph Mfg. Co., Philadelphia, Pa. Bath-tablets. No. 153,573; Dec. 13.

Typo Trading Corporation, New York, N. Y. Table game. No. 154,574; Dec. 13.

United States Steel Toy Company, Plainsville, Mass. Child's wheeled car. No. 154,775; Dec. 13.

Watts, Y. H., & Co. Inc., Trenton, N. J. Compound for treating cholera in fowls. No. 152,821; Dec. 13.

Watts, Y. H., & Co. Inc., Trenton, N. J. Liquid compound for treating hog-cholera. No. 152,822; Dec. 13.

Waugh & Co., New York, N. Y. Hair-nets. No. 154,012; Dec. 13.

Wenatchee District Co-Operative Association, Wenatchee, Wash. Fresh deciduous fruits. Nos. 155,204–5; Dec. 13.

Wolkow, F., & Sons, Louisville, Ky. Caps for radiators. No. 148,467; Dec. 13.

Zeeta Company, The, New York, N. Y. Powdered deodorant. No. 152,941; Dec. 13.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 13TH DAY OF DECEMBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Account-ledger. S. B. Kirtley. No. 1,399,776; Dec. 13.
Adding-machine. F. Trinks. No. 1,400,106; Dec. 13.
Advertising-display. T. C. Tucker. No. 1,400,190; Dec. 13.
Aerofoil. J. V. Martin. No. 1,400,177; Dec. 13.
Aeroplane. D. McGee. No. 1,400,480; Dec. 13.
Aeroplane. B. B. Wood. No. 1,399,913; Dec. 13.
Aeroplane construction, Dope or varnish used in. S. E. Groves and T. W. H. Ward. No. 1,400,430; Dec. 13.
Aeroplanes, Brake for. C. P. Salgee. No. 1,400,402; Dec. 13.
Agricultural implement. T. M. Jones. No. 1,400,078; Dec. 13.
Agricultural implement, traction-engine, motor-lorry, &c., Motor-driven. J. and C. J. Bamford. No. 1,400,012; Dec. 13.
Agricultural implements, Mechanism for raising and lowering working devices of. C. A. Bacon. No. 1,400,342; Dec. 13.
Agricultural machine, Motor. C. S. Brown. No. 1,399,739; Dec. 13.
Air, Apparatus for determining the amount of heat in the. C. H. Prott. No. 1,400,313; Dec. 13.
Air-heater. E. J. Ellison. No. 1,399,756; Dec. 13.
Air-moistening device. W. B. Krakiau and C. Brettschneider. No. 1,400,444; Dec. 13.
Aircraft, Alighting or landing gear for. R. K. Pierson and T. S. Duncan. No. 1,399,990; Dec. 13.
Alarm or indication apparatus, Audible. G. E. and H. Washington. No. 1,400,113; Dec. 13.
Aldehydes and separating same from other products formed. A. A. Backhaus and F. B. Arents. No. 1,400,205; Dec. 13.
Aluminous materials, Treatment of granular. H. O Anderson. No. 1,400,495; Dec. 13.
Amusement device. G. R. Cudlipp. No. 1,400,497; Dec. 13.
Amusement device. L. Raymond. No. 1,400,314; Dec. 13.
Animal-skinning knife, Motor-driven. H. H. Schellmeyer. No. 1,400,378; Dec. 13.
Animal-trap. H. C. McCurrie. No. 1,400,175; Dec. 13.
Antirattling device. H. E. Ewing. No. 1,400,482; Dec. 13.
Antiskid device. W. J. Gundermen. No. 1,400,358; Dec. 13.
Arm, Cutter-boring. A. J. Lavoie. No. 1,399,971; Dec. 13.
Armature-windings, Short-circuiting means for. E. I. Pearson. No. 1,399,991; Dec. 13.
Armrest, Folding. J. P. Brophy. No. 1,399,744; Dec. 13.
Automobile-brake mechanism. S. D. Heller and L. Herron. No. 1,400,286; Dec. 13.
Automobile-curtain. F. L. Shober. No. 1,399,895; Dec. 13.
Automobile-lock. C. F. Callahan. No. 1,400,415; Dec. 13.
Automobile lock and thief-trap, Combination. B. H. Mann. No. 1,399,782; Dec. 13.
Automobile ornament. J. R. Bower. No. 1,400,017; Dec. 13.
Automobile-radiator. J. Fraidus. No. 1,400,353; Dec. 13.
Automobile-signal. L. A. and R. H. Biggar. No. 1,400,136; Dec. 13.
Automobile-speed controller. H. C. Hill. No. 1,400,062; Dec. 13.
Automobile steering-wheel, Detachable. C. J. Wills. No. 1,400,121; Dec. 13.
Automobile vehicles, Chassis for. E. Fuchs. No. 1,400,045; Dec. 13.
Automobile-wheel-rim-straightening device. P. R. Le Brant and A. C. Nordhaugen. No. 1,400,297; Dec. 13.
Automobiles, Airbrake and starter for. H. Green. No. 1,399,880; Dec. 13.
Automobiles and other vehicles, Shock-absorber for. J. Reif. No. 1,399,795; Dec. 13.
Automobiles, Demountable drive mechanism for. E. L. Kraft. No. 1,400,170; Dec. 13.
Automobiles, Locking device for. F. G. Siwecki. No. 1,400,243; Dec. 13.
Automobiles, Power-transmission attachment for. G. A. Bonelli. No. 1,399,738; Dec. 13.
Awning. W. E. Metzger. No. 1,400,080; Dec. 13.
Bag. C. J. Freese. No. 1,400,355; Dec. 13.
Bag. E. L. Henderson. No. 1,400,499; Dec. 13.
Bag closing and tying machine. C. F. Sparks. No. 1,400,527; Dec. 13.
Bag-frame catch or hasp. W. A. Lotz. No. 1,399,779; Dec. 13.
Bag-holder. P. Spartz. No. 1,399,814; Dec. 13.
Bag-making machines, Attachment for. L. F. Baumann. No. 1,400,404; Dec. 13.
Bagasse, Isolating fiber from. D. E. Scott. No. 1,399,891; Dec. 13.
Barley, Producing malted pearl-. A. Heinemann. No. 1,400,160; Dec. 13.
Barrel-filler. C. Fisk. No. 1,400,275; Dec. 13.
Bar: *See*—
Reinforcing-bar.
Basket. W. B. Loewenberg. No. 1,399,974; Dec. 13.
Battery-charging system. W. L. Cully. No. 1,400,265; Dec. 13.
Battery-machine. R. F. Wherland. No. 1,400,471; Dec. 13.
Battery terminal. A. F. Hawkins. No. 1,400,059; Dec. 13.
Beet-snipper. N. A. Johannes. No. 1,400,290; Dec. 13.
Bearing. A. Kingsbury. No. 1,400,168; Dec. 13.
Bearing, Ball-. B. M. W. Hanson. No. 1,399,959; Dec. 13.
Bearing, Shaft-. M. E. Gysel. No. 1,400,055; Dec. 13.
Bearings, Making. H. W. Fletcher. No. 1,399,856; Dec. 13.
Bed-spring. C. H. Gall. No. 1,400,505; Dec. 13.
Bed-spring. J. W. Sharp. No. 1,399,894; Dec. 13.
Bedpan. J. Karrakis. No. 1,400,074; Dec. 13.
Beets, potatoes, &c., Harvester and loader for. W. Z. Pullam. No. 1,399,576; Dec. 13.
Berry-tray. O. O. Eaton. No. 1,400,426; Dec. 13.
Bicycles, Sprocket-guard attachment for. C. S. Adams. No. 1,400,131; Dec. 13.
Bifocal. H. W. Hill. No. 1,400,061; Dec. 13.
Blankets, Machines for treating. J. and E. J. McCreary. No. 1,400,446; Dec. 13.
Block: *See*—
Cutting-block.
Boiler-flue cleaner. J. H. Goodfellow. No. 1,400,152; Dec. 13.
Bolt. T. D. Thomas. No. 1,400,248; Dec. 13.
Bolt-lock. S. Munson. (Reissue.) No. 15,246; Dec. 13.
Bolt-machines, Header for. W. L. Clouse. No. 1,399,850; Dec. 13.
Bolt, rivet, and the like. F. Allan. No. 1,400,401; Dec. 13.
Boots and shoes, Sole for. J. E. Grosjean. No. 1,399,766; Dec. 13.
Box-lids, Support for. J. M. Waddell. No. 1,399,830; Dec. 13.
Bowl, Washing-. C. P. Bohland. No. 1,399,925; Dec. 13.
Box: *See*—
Adjustable driving-box. Knockdown box.
Cigar-box.
Bracket. W. Sparks. No. 1,400,007; Dec. 13.
Brake. F. G. Alborn. No. 1,400,340; Dec. 13.
Brassière. W. Kops. No. 1,400,295; Dec. 13.
Brick, Basic refractory. S. B. Newberry. No. 1,400,087; Dec. 13.
Brick, Channel-. J. P. B. Fiske. No. 1,400,498; Dec. 13.
Buckle, Belt-. S. Buchsbaum. No. 1,399,745; Dec. 13.
Buckle, Slide-. G. H. Perrine. No. 1,400,178; Dec. 13.
Building construction. O. A. Deichmann. No. 1,400,144; Dec. 13.
Building construction. J. N. Hake. No. 1,400,284; Dec. 13.
Building-slab. K. Wessel. No. 1,400,115; Dec. 13.
Burner: *See*—
Gas-burner. Oil-burner.
Liquid-fuel burner.
Burners, Fuel-control system for. J. A. Doble. No. 1,399,938; Dec. 13.
Bust-supporter. K. Hadley. No. 1,400,056; Dec. 13.
Butter-dispenser, Automatic. H. Hartung. No. 1,399,768; Dec. 13.
Button. W. Colley. No. 1,400,420; Dec. 13.
Button-attaching machine. P. R. Glass. No. 1,399,762; Dec. 13.
Cabinet, Baby toilet-. A. M. Garwood. No. 1,399,966; Dec. 13.
Cabinet, Film-. E. W. Salmon, Jr. No. 1,400,503; Dec. 13.
Cabinet, Kitchen-. W. A. Duncan. No. 1,400,145; Dec. 13.
Cable-securing device particularly applicable to the fixation of electric cables on carbon-brushes. E. Gindre. No. 1,400,357; Dec. 13.
Cakes, &c., Apparatus for making. H. L. Powell. No. 1,399,876; Dec. 13.
Calcining. C. A. King and W. S. Rawson. No. 1,400,443; Dec. 13.
Calculating-machine. C. Schaller. Nos. 1,400,003–4; Dec. 13.
Calculating-machine. F. Trinks. No. 1,400,105; Dec. 13.
Calendar. H. T. Reed. No. 1,399,880; Dec. 13.
Calking-machine. H. Bremner. No. 1,400,188; Dec. 13.
Camera, Aviator's. W. F. Folmer. No. 1,400,277; Dec. 13.
Camera, Copying and enlarging. B. A. Brigden. No. 1,400,412; Dec. 13.

Cameras, Plate-magazine for. A. A. Ruttan and C. E. Hutchings. No. 1,399,884; Dec. 18.
Can heading and sealing machine. N. Troyer. No. 1,400,391; Dec. 13.
Can-opener. O. W. Berggren. No. 1,400,406; Dec. 13.
Can-sealing machine, Vacuum. L. O. Schoen. No. 1,399,805; Dec. 18.
Candy, Machine for making spiral stick-. F. E. Zaiss. No. 1,400,127; Dec. 13.
Candy, Machine for making. F. E. Zaiss. No. 1,400,128; Dec. 13.
Car, Box-. L. C. Ord. No. 1,400,004; Dec. 13.
Car brake or stop. C. Liddicoat. No. 1,399,972; Dec. 13.
Car construction. T. J. Callery. No. 1,400,140; Dec. 13.
Car-coupling. L. D. Greag. No. 1,400,051; Dec. 13.
Car-fender. J. W. H. Griffin. No. 1,400,052; Dec. 13.
Car-fender. L. D. Hamilton. No. 1,400,057; Dec. 13.
Car, Ore-. A. Campbell. No. 1,399,746; Dec. 18.
Car, Railway-. T. Elliott. No. 1,399,755; Dec. 18.
Car-wheel. L. P. Soete. No. 1,400,246; Dec. 18.
Cars, Draft appliance for railway-. H. C. Buhoup. No. 1,400,210; Dec. 13.
Cars, movable partition for stock-. V. A. Vassau. No. 1,399,908; Dec. 13.
Carbureter control. W. D. Warner. No. 1,400,110; Dec. 13.
Card-match machines, Carrier for. J. P. and C. P. Wright. No. 1,400,338; Dec. 18.
Casing and piling construction. P. F. Burns. No. 1,399,848; Dec. 13.
Casting metal products, Apparatus and method for. A. R. Rowe. No. 1,399,798; Dec. 13.
Catalyzer. A. A. Backhaus. No. 1,400,203; Dec. 18.
Catalyzer and catalyzer apparatus. A. A. Backhaus. No. 1,400,204; Dec. 13.
Catalyzers, Producing. J. A. Steffens. No. 1,400,247; Dec. 13.
Ceramic vessel. F. S. Lowry. No. 1,400,489; Dec. 13.
Chain-clamps. J. H. Ryan. No. 1,399,885; Dec. 18.
Chain, Non-skid. M. B. Ryan. No. 1,400,320; Dec. 13.
Chain wrench. C. S. Wright. No. 1,400,398; Dec. 13.
Check holder and notcher therefor, Sales-. W. H. Sawyer. No. 1,399,887; Dec. 13.
Checking device, Laundry-. J. H. Todd. No. 1,399,906; Dec. 13.
Cheese, Preparing. J. L. Kraft. No. 1,400,171; Dec. 13.
Cherry-stemmer. C. E. Forry. No. 1,400,352; Dec. 13.
Chlorin control, Apparatus for. J. W. Van Meter. No. 1,400,393; Dec. 18.
Chlorination apparatus. J. W. Van Meter. No. 1,400,107; Dec. 13.
Chuck for machine-tools. R. E. Ellis. No. 1,400,272; Dec. 13.
Chuck for machine-tools. E. P. Miller. No. 1,400,306; Dec. 13.
Cigar-box. H. Leiman. No. 1,400,084; Dec. 13.
Circuits, Artificial busy-. D. M. Taggart. No. 1,400,103; Dec. 13.
Circuits, Means for controlling repeater-. J. F. Toomey. No. 1,400,180; Dec. 13.
Cistern-top. O. H. Yaeche. No. 1,400,399; Dec. 13.
Clamp: *See*—
Chain-clamp. Trolley-clamp.
Track-clamp.
Clamp. F. M. Mechling. No. 1,400,491; Dec. 13.
Classifying and separation of solid bodies by combined action of orientation, deviation, and derivation. R. E. Trottier. No. 1,400,389; Dec. 13.
Classifying and separation of solid bodies by combined action of orientation, deviation, and derivation, Apparatus for. R. E. Trottier. No. 1,400,390; Dec. 13.
Cleaner: *See*—
Boiler-flue cleaner. Vacuum-cleaner.
Eraser-cleaner. Valve-cleaner.
Stovepipe-cleaner.
Clothes-drier. C. W. Hagerman. No. 1,400,359; Dec. 13.
Coating-machine. H. M. Nicholls. No. 1,400,310; Dec. 13.
Coffee-beans, Producing a substitute for raw. A. Heinemann. No. 1,400,161; Dec. 18.
Coffee, tea, or similar beverages, Device for making. H. Gait. No. 1,400,214; Dec. 13.
Coil terminal. H. C. Egerton. No. 1,400,088; Dec. 13.
Coin-controlled liquid-dispensing apparatus. F. Dobson. No. 1,400,348; Dec. 13.
Coin-counting device. H. Groff. No. 1,400,053; Dec. 13.
Coin-freed apparatus. T. B. Drybrough. No. 1,400,047; Dec. 13.
Collar, Soft fold-. S. T. Wright. No. 1,400,339; Dec. 13.
Comb. V. V. Warner. No. 1,400,468; Dec. 13.
Commutators, Means for assembling. A. Grob, C. B. Keck, and F. J. Baird. No. 1,400,157; Dec. 13.
Compass, Surveyor's. C. E. Phoenix. No. 1,399,804; Dec. 13.
Composition of matter. M. Weinberg. No. 1,400,395; Dec. 13.
Compressors, Control system for. B. S. Aikman. No. 1,400,133; Dec. 13.
Computing-machine. M. B. and V. C. Kennedy. No. 1,400,363; Dec. 13.
Concrete coating, &c. C. Ellis. No. 1,400,041; Dec. 13.
Concrete tie and rail-fastening. M. A. Bonk. No. 1,399,926; Dec. 13.
Concrete-wall form. A. H. Denniston. No. 1,399,751; Dec. 13.
Construction material. B. P. Perry. No. 1,400,312; Dec. 18.
Contact device. J. A. Wotton. No. 1,400,126; Dec. 13.
Container. J. J. Ferrall. No. 1,399,948; Dec. 13.
Container. J. J. Ferrall, K. J. Sundheim, and C. H. Trelawny. No. 1,399,947; Dec. 13.
Container-cap, Irremovable. H. W. Fulenwider. No. 1,399,758; Dec. 13.
Container-opener. F. Dobrick. No. 1,400,425; Dec. 13.
Containers for comestible substances such as butter, Method of and apparatus for rendering timber not otherwise suitable usable for. B. Abbey. No. 1,399,838; Dec. 13.
Containers, Seal for. C. Field and W. E. Newell. No. 1,399,949; Dec. 13.
Containers, Support for. J. A. Carey. No. 1,400,025; Dec. 13.
Control mechanism. J. F. Johnson. No. 1,399,774; Dec. 13.
Controlling device. F. D. Newbury. No. 1,400,462; Dec. 13.
Cooker, Steam-. G. W. Atkinson. No. 1,400,475; Dec. 13.
Core, Expansible. A. Huetter. No. 1,400,210; Dec. 13.
Corset, Apparel-. D. Kops. No. 1,400,294; Dec. 18.
Counter resetting, Revolution. A. C. Wood. No. 1,400,197; Dec. 13.
Coupling: *See*—
Car-coupling. Tractor-coupling.
Crank-shaft. E. Scofield. No. 1,399,806; Dec. 18.
Crusher: *See*—
Stone-crusher.
Crutch applicable also for use as a walking-stick or elbow-crutch. A. E. Warry. No. 1,400,304; Dec. 13.
Cup: *See*—
Grease-cup.
Current commutator-motor, Single-phase alternating-. G. H. Garcelon and C. A. M. Weber. No. 1,400,047; Dec. 13.
Currents, Method of and means for producing alternating. J. H. Payne, Jr. No. 1,400,235; Dec. 13.
Cutter: *See*—
Automatic tile-cutter.
Cutter-head. C. P. Smith. No. 1,400,245; Dec. 13.
Cutting-block. A. C. Denning. No. 1,399,937; Dec. 13.
Cylinder-boring reamer. G. M. Brubaker. No. 1,400,021; Dec. 13.
Dental casting-machine. J. H. French. No. 1,400,044; Dec. 13.
Dental instrument. M. Cohen. No. 1,400,028; Dec. 13.
Deodorization, Embalming process for. T. B. Barnes. No. 1,400,344; Dec. 13.
Derrick-fitting. H. R. Bloss. No. 1,400,408; Dec. 13.
Dial-fastener. H. Colomb. No. 1,400,421; Dec. 13.
Diaphragm signaling device, Vibratory-. D. A. McConnell. No. 1,400,055; Dec. 13.
Die: *See*—
Automatic die.
Die. F. W. Conant. No. 1,399,932; Dec. 13.
Die, Automatic. H. F. Neumeyer. No. 1,399,867; Dec. 13.
Dishwasher. T. H. Monaghan. No. 1,399,978; Dec. 13.
Display device. W. I. Mayer and F. Beagle. No. 1,399,783; Dec. 13.
Doll, Rag. F. Barnard. No. 1,399,840; Dec. 13.
Doll, Swimming. A. L. Fierlein. No. 1,399,855; Dec. 13.
Door-closer. J. C. Wood. No. 1,400,125; Dec. 13.
Door-fastener, Safety. J. M. Reed. No. 1,400,315; Dec. 13.
Door-locking mechanism. A. D. Sarra. No. 1,399,886; Dec. 13.
Door-opening device, Automatic. J. Balazs. No. 1,399,733; Dec. 13.
Doors, &c., Hinge for. M. Zütter. No. 1,400,130; Dec. 13.
Doors, windows, &c., Lock for. B. Singer. No. 1,399,897; Dec. 13.
Drier: *See*—
Clothes-drier. Print-drier.
Drill: *See*—
Multiple-stage rotary drill.
Drill. J. B. Agassis. No. 1,400,132; Dec. 13.
Driving-box, Adjustable. W. M. Sheehan. No. 1,399,809; Dec. 13.
Driving mechanism. H. E. Woolery. No. 1,400,200; Dec. 13.
Dropper: *See*—
Liquid-dropper.
Drying device. G. Stevenson. No. 1,399,903; Dec. 13.
Dusting articles, Method and apparatus for. D. E. Humphrey. No. 1,400,289; Dec. 13.
Dyeing-machine. F. Cartier. No. 1,400,417; Dec. 13.
Edging. H. G. Levy. No. 1,400,174; Dec. 13.
Egg-beater. G. D. Munsing. No. 1,400,309; Dec. 13.
Electric accumulators, Negative plate for. A. Pouchain. No. 1,399,995; Dec. 13.
Electric batteries, Negative plate for. A. Pouchain. No. 1,399,996; Dec. 13.
Electric circuit control. H. J. Murray. No. 1,400,229; Dec. 13.
Electric fan heater. J. C. Clutts. No. 1,399,931; Dec. 13.
Electric heating-plug. J. W. Fraser. No. 1,400,354; Dec. 13.
Electric light and power plant, Portable. C. H. Ferguson. No. 1,399,853; Dec. 13.
Electric machine, Dynamo-. H. H. Walt. No. 1,399,812; Dec. 13.

Electric machines, Regulating system for dynamo-. O. F. Conklin. No. 1,400,501; Dec. 13.
Electric machines, Winding for dynamo-. B. B. Williamson. No. 1,400,336; Dec. 13.
Electric railway-switch. R. L. Johnson. No. 1,400,439; Dec. 13.
Electric resistance. P. Bossu. No. 1,400,410; Dec. 13.
Electric switch. H. S. Freeman and F. Zenker. Nos. 1,400,270–81; Dec. 13.
Electrical cut-out. W. H. Welch. No. 1,400,470; Dec. 13.
Electrical distribution, System of. W. A. Turbayne. No. 1,400,502; Dec. 13.
Electrical receptacles, Convertible plate or cover for. J. F. Boutgerathe and E. Kale. No. 1,399,899. No. 1,399,899; Dec. 13.
Electrical switch. B. D. Horton. No. 1,400,288; Dec. 13.
Electrode-holder. H. A. Casey. No. 1,400,418; Dec. 13.
Electrodes, Regulator for furnace-. W. Dyesen. No. 1,399,852; Dec. 13.
Electrotherapeutic apparatus. T. W. Gleeson. No. 1,400,149; Dec. 13.
Elevator-door-operating device. L. E. Groat and F. F. Brush. No. 1,400,215; Dec. 13.
Embroidery-frame. W. Koller. No. 1,400,293; Dec. 13.
End-gate lock. M. F. Bohr. No. 1,399,842; Dec. 13.
End-gates, Lever-lock for. C. F. Fehr. No. 1,400,483; Dec. 13.
Engine: *See*—
Internal-combustion engine.
Engine-cooling means. E. I. Pearson. No. 1,399,871; Dec. 13.
Engines, Air-heater for internal-combustion. B. B. Block. No. 1,400,015; Dec. 13.
Engines, Injector for internal-combustion. L. A. Charles. No. 1,400,264; Dec. 13.
Engines, Method of and apparatus for manipulating internal-combustion. C. G. Sprado. No. 1,399,900; Dec. 13.
Engines, Rotor for multistage high-speed. P. Spleas. No. 1,399,810; Dec. 13.
Engines, Starter for. S. A. Ellett. No. 1,400,040; Dec. 13.
Engines, Starter for automobile-. J. F. Collins. No. 1,400,266; Dec. 13.
Engines, Valve for internal-combustion. J. D. Schweers. No. 1,400,006; Dec. 13.
Engines, Valve-operating mechanism for internal-combustion. W. W. Douglas and S. L. Bailey. No. 1,399,941; Dec. 13.
Eraser-cleaner. F. M. Schaefer. No. 1,399,888; Dec. 13.
Erasing device. J. H. Baldwin. No. 1,399,734; Dec. 13.
Explosives, Aeronautical appliance for transporting and firing. W. R. Bowker. No. 1,400,261; Dec. 13.
Extrusion-press. O. B. Jacobsen. No. 1,400,071; Dec. 13.
Fabric-cutting device. A. L. Berthelsen. No. 1,399,924; Dec. 13.
Fabrics, Producing wool-like effects on cotton. G. A. Bosshard. No. 1,400,016; Dec. 13.
Fastenings, Machine for inserting. G. Goddu, F. L. Mackenzie. No. 1,399,765; Dec. 13.
Feed holder and trough. E. H. Mittman. No. 1,400,307; Dec. 13.
Feed memorandum device, Automatic-. E. F. Creevy. No. 1,400,029; Dec. 13.
Feed-water heater, condenser, &c. H. C. Davis. No. 1,400,347; Dec. 13.
Feeding device, Artificial-. A. Traynor. No. 1,399,828; Dec. 18.
Fencepost. E. T. Peterson. No. 1,400,455; Dec. 18.
Fencing-grip. B. W. Storey. No. 1,399,821; Dec. 13.
Fiber products, Manufacturing. G. J. Manson. No. 1,399,976; Dec. 13.
Fibers, Treatment of vegetable. C. Schwartz. Nos. 1,400,380–81; Dec. 13.
Filling and testing device. A. J. Nuss and F. A. Parker. No. 1,399,868; Dec. 13.
Fire-alarm system. M. Gari. No. 1,399,760; Dec. 13.
Fireplace. J. H. Stites. No. 1,400,329; Dec. 13.
Fish cutting and cleaning machine. H. D. Severance. No. 1,400,156; Dec. 13.
Flue tool, Boiler-. C. M. Spangler. No. 1,400,102; Dec. 13.
Flying-machine. G. Caproni. No. 1,400,262; Dec. 18.
Folding chair. H. J. Willems. No. 1,399,835; Dec. 13.
Folding drawing knife. C. B. Simmons. No. 1,400,382; Dec. 13.
Folding mechanism. F. M. Joslin. No. 1,400,292; Dec. 13.
Food product and making same. P. C. Wadsworth. No. 1,400,191; Dec. 18.
Footrest. E. L. Wood. No. 1,399,837; Dec. 18.
Footwear. C. Streb. No. 1,399,822; Dec. 13.
Forging-machine for the manufacture of horseshoes, &c., Automatic. D. F. Glynn. No. 1,399,764; Dec. 13.
Frame: *See*—
Embroidery-frame.
Fruit-huller. A. Pearce. No. 1,399,870; Dec. 13.
Fruit preservative and using same. R. D. McDill. No. 1,400,096; Dec. 13.
Fuel cut-off, Automatic. E. S. King. No. 1,399,967; Dec. 13.
Fuel-press. C. H. Davis. No. 1,400,212; Dec. 13.
Furnace: *See*—
Hot-air furnace.
Furnace. W. C. Drake. No. 1,400,036; Dec. 18.
Furnace. C. J. Lane. No. 1,399,970; Dec. 13.
Furnace. H. H. Peek. No. 1,400,454; Dec. 18.
Furnace. J. T. Wensiulis. No. 1,400,335; Dec. 18.
Furnace and conveying materials therethrough. H. P. McCann. No. 1,400,367; Dec. 13.
Furnace-damper regulator. T. Olinger and J. L. De Glopper. No. 1,399,984; Dec. 13.
Furnace pipes, Dustproof connection for hot-air-. A. J. Cheney. No. 1,399,748; Dec. 13.
Furnace-register. T. Olinger. No. 1,399,985; Dec. 13.
Fuse, Safety-. A. L. Eustice. No. 1,400,480; Dec. 13.
Game. J. Johnson. No. 1,399,864; Dec. 13.
Game. T. Sacane. No. 1,400,461; Dec. 13.
Game, Card. N. R. Strout. No. 1,399,823; Dec. 13.
Game device. C. T. Stewart. No. 1,399,818; Dec. 13.
Game, Mechanical baseball. G. E. Brown. No. 1,400,020; Dec. 13.
Game, Word card. F. C. Smith. No. 1,399,811; Dec. 13.
Gap-closing machine. N. A. Neilsen. No. 1,399,981; Dec. 13.
Garment. G. G. Thompson. No. 1,399,825; Dec. 13.
Garment-hanger. T. Kaufer. No. 1,400,220; Dec. 13.
Garment-pressing machine. R. H. Meizer. No. 1,400,068; Dec. 13.
Gas-burner. V. Z. Caracristi. No. 1,400,024; Dec. 13.
Gas-mixer. J. Needham. No. 1,399,788; Dec. 13.
Gases, Producing poisonous. J. W. Van Meter. No. 1,399,829; Dec. 13.
Gate device. E. B. Thurston. No. 1,399,905; Dec. 13.
Gearing, Change-speed. J. B. Rowe and A. G. Barratt. No. 1,400,317; Dec. 13.
Gears, Housing for truck driving-. R. A. Whittingham. No. 1,400,119; Dec. 13.
Generator: *See*—
Sound-generator.
Gluing-machine. G. McConnell. No. 1,399,975; Dec. 13.
Golf-teaching device, Mechanical. H. W. Garland. No. 1,399,761; Dec. 13.
Grain, &c., Apparatus for treating. W. Rotsted. No. 1,399,797; Dec. 13.
Grain-cleaning machinery, Feed-hopper for. R. L. Owens. No. 1,400,232; Dec. 13.
Grain-cleaning machines, Feed-hopper for. R. L. Owens. No. 1,400,234; Dec. 13.
Grain-door. J. K. Kopchuk. No. 1,400,080; Dec. 13.
Grain-door-forcing device. W. H. McGann. No. 1,400,447; Dec. 13.
Grain-separator. H. H. Meyer. No. 1,400,225; Dec. 13.
Gramophones and like machines, Apparatus or means for automatically stopping. J. I. Rodway. No. 1,399,881; Dec. 13.
Grate shaking and dumping mechanism. R. C. White. No. 1,399,811; Dec. 13.
Grease-cup. A. Ehrhart. No. 1,399,944; Dec. 13.
Grease-cup wrench. G. W. Petrak. No. 1,400,456; Dec. 13.
Grinding-machine. F. Stacey. No. 1,400,466; Dec. 13.
Gripper-finger. E. L. Megill. No. 1,400,303; Dec. 13.
Gun, Grease-. B. C. Bliven. No. 1,400,207; Dec. 13.
Gun, Grease-. A. J. Dilley. No. 1,400,034; Dec. 13.
Hair-curler, Electric. M. Miller. No. 1,400,305; Dec. 13.
Hair-waver. H. E. Pratt. No. 1,399,874; Dec. 13.
Hair-waving apparatus. C. Nessler. No. 1,400,370; Dec. 13.
Hammer, Power-. E. F. Karlson. No. 1,400,166; Dec. 13.
Hammock. F. Goddard. No. 1,400,049; Dec. 13.
Handle: *See*—
Saw-handle.
Hanger: *See*—
Garment-hanger. Pipe-hanger.
Picture-hanger.
Harrow-point. W. D. Whitney. No. 1,400,118; Dec. 13.
Harrows, Draft-evener for. J. A. Reimer. No. 1,399,909; Dec. 13.
Harvester-pitman. M. C. Hoff. No. 1,399,861; Dec. 13.
Hatpin. J. B. Fitzpatrick. No. 1,400,147; Dec. 13.
Hay-press and threshers, Self-feeder for. E. O. Stancliff. No. 1,400,008; Dec. 13.
Headlight. A. S. Limpert. No. 1,399,973; Dec. 13.
Headlight. H. R. Lotz. No. 1,400,306; Dec. 13.
Headlight, Automobile-. F. B. Black. No. 1,400,259; Dec. 13.
Headlight control, Vehicle-. J. W. White. No. 1,400,117; Dec. 13.
Headlight-lens. O. E. Conklin. No. 1,399,749; Dec. 13.
Heater: *See*—
Air-heater. Manifold-heater.
Electric-fan heater. Oil-fuel heater.
Heating apparatus, Automatic draft control for. H. B. Spears. No. 1,399,815; Dec. 13.
Heddles or the like, Apparatus for separating. C. E. Field. No. 1,399,854; Dec. 13.
Heel. J. G. Robertson. No. 1,400,183; Dec. 13.
Heel, Detachable. G. W. Owen. No. 1,400,095; Dec. 13.
Heel for shoes and boots, Detachable. G. W. Owen. No. 1,400,096; Dec. 13.
Heel, Pneumatic. G. J. Winter. No. 1,399,836; Dec. 18.
Heel, Reversible. E. F. Quinn. No. 1,400,182; Dec. 13.
Heels, Last and device for attaching. C. Hunt. No. 1,399,772; Dec. 13.
Hemoglobinometers, Test-glass for. K. Fuchs. No. 1,400,356; Dec. 13.
Hoisting mechanism. I. Benjamins. No. 1,399,736; Dec. 13.
Homogeneous products, including films, Producing. H. F. Willkie. No. 1,400,196; Dec. 13.
Hoof-trimming tool. J. J. Gilbert. No. 1,399,958; Dec. 13.

Hook: *See*—
Mail-pouch-suspending hook.
Mud-hook.
Hose, &c., Machine for mercerizing. A. E. Hawley, F. F. Crosland, and F. G. Dixon. No. 1,399,159; Dec. 13.
Hot-air furnace. A. B. McAdam. No. 1,400,200; Dec. 13.
Huller: *See*—
Fruit-huller.
Hypochlorite, Production of solid basic magnesium. G. Baresesty and E. Wolf. No. 1,400,167; Dec. 13.
Incubator-heating system. J. D. Julius. No. 1,399,865; Dec. 13.
Indicating mechanism. F. W. Wood. No. 1,400,130; Dec. 13.
Indicator. F. R. Heil and A. J. Bossert. No. 1,400,496; Dec. 13.
Internal-combustion engine. J. W. Hudson. No. 1,400,495; Dec. 13.
Internal-combustion engine. C. G. Sprado. No. 1,400,329; Dec. 13.
Internal-combustion engine. N. Winblad. No. 1,400,122; Dec. 13.
Internal-combustion motor. Rotary. H. D. Anderson. No. 1,400,255; Dec. 13.
Iron: *See*—
Electrically-heated soldering-iron. Sadiron.
Soldering-iron.
Iron or steel bearing element and making same. R. J. Shoemaker. No. 1,399,810; Dec. 13.
Jack: *See*—
Lifting-jack.
Key for fastening gear-wheels, raceways for ball-bearings, &c., to rotatable shafts. C. C. Barber. No. 1,400,014; Dec. 13.
Knife: *See*—
Folding drawing-knife.
Motor-driven animal-skinning knife.
Knitting-machines, Yarn severing and clamping device. A. M. Pigeon. No. 1,400,180; Dec. 13.
Knitting mechanism, Instrument therefor, and method of knitting. W. A. Houck. No. 1,400,163; Dec. 13.
Knockdown box. J. C. Helm. No. 1,400,060; Dec. 13.
Lace, Tab-attaching device for. A. E. Anderson. No. 1,399,915; Dec. 13.
Lacing-fastening. M. H. Smith. No. 1,399,896; Dec. 13.
Ladder. E. F. Evans. No. 1,400,481; Dec. 13.
Lamp-focusing device. J. L. Minick. No. 1,400,227; Dec. 13.
Lamp, Instrument-board. C. Bramming. No. 1,400,208; Dec. 13.
Lamp, Mercury-vapor. M. J. Cornu. No. 1,400,346; Dec. 13.
Lamps, Holder for the glowers of tungsten. O. Schaller. No. 1,400,005; Dec. 13.
Lasting-machine. R. E. Duplessis. No. 1,399,784; Dec. 13.
Lasting-machine. T. H. Seely. No. 1,399,891; Dec. 13.
Lathe-center. L. Beeman. No. 1,399,921; Dec. 13.
Lathes, Combination handwheel and face-plate for. A. S. Kurkjian. No. 1,399,969; Dec. 13.
Leaf stemming and booking machine. J. F. Moeller. No. 1,400,228; Dec. 13.
Legging. F. G. Chamberlin. No. 1,399,929; Dec. 13.
Lifter: *See*—
Valve-lifter.
Lifting-jack. G. R. Adams. No. 1,399,729; Dec. 13.
Lifting-jack. A. Gustinna. No. 1,400,054; Dec. 13.
Limb, Artificial. A. A. Erb. No. 1,400,042; Dec. 13.
Link or shackle, Connecting. F. W. Erickson. No. 1,399,946; Dec. 13.
Liquid-dropper. L. V. Aronson. No. 1,399,916; Dec. 13.
Liquid-fuel burner. J. A. Doble. No. 1,399,939; Dec. 13.
Liquid-fuel burner. C. W. Springston. No. 1,400,504; Dec. 13.
Liquid fuel, Feeding device for. R. C. Hnff. No. 1,399,964; Dec. 13.
Liquids, Container for volatile. M. C. Whitaker. No. 1,400,193; Dec. 13.
Lock: *See*—
Automobile-lock. End-gate lock.
Bolt-lock. Nut-lock.
Locking device. O. B. Jablon. No. 1,400,487; Dec. 13.
Locomotive attachment. R. G. Cox. No. 1,400,287; Dec. 13.
Locomotive-journal lubricator. J. G. B. Proudfoot. No. 1,400,237; Dec. 13.
Loom. E. D. Roy. No. 1,400,318; Dec. 13.
Lubricating system. G. W. Dunham. No. 1,399,943; Dec. 13.
Lubricator: *See*—
Locomotive-journal lubricator.
Lumber and timber trade-making device. J. G. McDonough. No. 1,400,223; Dec. 13.
Machine-tools, Indexing-fixture for. J. H. Pellasoni. No. 1,399,992; Dec. 13.
Machine-tools, Transmission mechanism for. H. W. Hunt. No. 1,400,381; Dec. 13.
Magneto-electric sparking apparatus. M. Schiller. No. 1,399,803; Dec. 13.
Magneto, Automatic timing mechanism for oscillating. G. J. Lang. No. 1,399,777; Dec. 13.
Mail-bag catching and delivering apparatus. J. G. Welch. No. 1,400,114; Dec. 13.
Mail-pouch-suspending hook. R. E. Lee. No. 1,400,062; Dec. 13.
Mandrels of machine tools of all kinds, Feed device for the. M. Jaeger. No. 1,400,072; Dec. 13.
Manufacture of cellulose esters and ethers. G. F. Clark. No. 1,399,900; Dec. 13.
Mashing-machine. A. Q. Mueller and W. H. Koeller. No. 1,399,890; Dec. 13.
Mattresses, Stitching for. P. Maugeter. No. 1,400,302; Dec. 13.
Meal, Whole-rice. M. M. Baumgartner. No. 1,399,920; Dec. 13.
Measuring device, Electrical. O. A. Knopp. No. 1,399,964; Dec. 13.
Measuring instrument, Electrical. W. M. Bradshaw and C. A. Priddle. No. 1,400,018; Dec. 13.
Meat-tenderer. J. E. Bridges. No. 1,400,418; Dec. 13.
Metal wheel. M. Lachman. No. 1,400,173; Dec. 13.
Methyl formate, Making. H. F. Willkie. No. 1,400,196; Dec. 13.
Middlings, &c., Purifying. H. S. Jewell. No. 1,400,168; Dec. 13.
Mill: *See*—
Tube-mill.
Mills, Grinding-plate for attrition-. G. Wolff. No. 1,400,179; Dec. 13.
Mirrors, Supporting-fixtures for. M. J. Brody. No. 1,399,743; Dec. 13.
Mixer: *See*—
Gas-mixer.
Mixing and aerating device. G. R. Bett. No. 1,399,740; Dec. 13.
Moist particles, Prevention of adherence of. M. F. Mangelsdorf. No. 1,400,176; Dec. 13.
Mold. H. J. Merle. No. 1,399,977; Dec. 13.
Molding-machine. P. W. Gates. No. 1,400,393; Dec. 13.
Motive fluid, Apparatus for conserving. W. B. Flanders. No. 1,399,753; Dec. 13.
Motor: *See*—
Pressure-fluid motor.
Rotary internal-combustion motor.
Motor-control apparatus. A. J. Nicht, Jr. No. 1,399,983; Dec. 13.
Motor-control system. H. L. Keith. No. 1,400,077; Dec. 13.
Motor-spirit and burning-oil from higher-boiling petroleum, Obtaining. H. P. Chamberlain. No. 1,400,419; Dec. 13.
Motors, Circuit-breaker for reversible. L. E. Samuel. No. 1,399,801; Dec. 13.
Mud-hook. M. H. Frank. No. 1,399,952; Dec. 13.
Muffler. H. C. and E. E. Emmons. No. 1,400,350; Dec. 13.
Multiple-stage rotary drill. F. L. O. Wadsworth. No. 1,399,851; Dec. 13.
Music-holder for band use. T. P. Harger, Jr. No. 1,400,217; Dec. 13.
Nail-distributing apparatus. H. F. Mayo. No. 1,399,785; Dec. 13.
Nail or rivet, Clenching. E. Board. No. 1,400,409; Dec. 13.
Name-plate attachment. G. G. Greenberg. No. 1,400,175; Dec. 13.
Note-sheet perforating machine. C. F. Stoddard. No. 1,400,242; Dec. 13.
Nut-cracking device. G. A. Pueppke. No. 1,400,099; Dec. 13.
Nut-lock. W. F. Farnsworth. No. 1,400,218; Dec. 13.
Nut-lock. E. A. Green. No. 1,400,154; Dec. 13.
Nut-lock. A. K. Stroh. No. 1,400,357; Dec. 13.
Nuts and the like, Making winged. E. H. Reed. No. 1,399,796; Dec. 13.
Nuts, Locking device for. J. C. Huffer. No. 1,399,862; Dec. 13.
Nuts, Machine for making. W. J. Sieffel. No. 1,400,244; Dec. 13.
Oil-burner. C. L. Pemberton. No. 1,399,906; Dec. 13.
Oil-burner. W. Walker. No. 1,400,108; Dec. 13.
Oil-fuel heater. L. A. Pfeiffer. No. 1,400,179; Dec. 13.
Oil-rig bull-rope tripper. E. Walters. No. 1,400,111; Dec. 13.
Oil-separator trap. E. C. Kelly. No. 1,400,441; Dec. 13.
Oil-vaporizer, Exhaust-heated. G. M. Holley. No. 1,400,247; Dec. 13.
Oils, Treating asphaltic. P. Prutzman and G. L. Goodwin. No. 1,399,792; Dec. 13.
Oiling mechanism, Elevator. G. P. Young. No. 1,400,354; Dec. 13.
Oleomargarin, Manufacturing. W. T. Ashby. No. 1,400,341; Dec. 13.
Operating-trough. G. W. Huegerich. No. 1,400,486; Dec. 13.
Optical instrument. A. Perrin. No. 1,400,068; Dec. 13.
Ore concentration. D. D. Moffat. No. 1,400,308; Dec. 13.
Organs, Swell for automatic. C. C. Russell. No. 1,400,239; Dec. 13.
Organs, Automatic cut-out valve for self-playing. C. C. Russell. No. 1,400,240; Dec. 13.
Oven, Reel. J. Dalton and B. C. De Meulle. No. 1,399,750; Dec. 13.
Oxids of nitrogen, Catalyzer for and producing. W. W. Scott. No. 1,399,907; Dec. 13.
Parer, Fruit and vegetable. P. Sporer. Nos. 1,399,901–2; Dec. 13.
Paring machine, Vegetable. C. E. Gabrio. No. 1,399,858; Dec. 13.
Peat-bogs to extract the water from the peat in the bogs, Treating. W. W. Camp. No. 1,399,847; Dec. 13.

Pen, Fountain. N. B. Panoff. No. 1,400,311; Dec. 13.
Pencil. C. R. Keeran and M. M. Kaufmann. No. 1,400,062; Dec. 13.
Percussion-tools, Spring particularly for use in. M. L. Brameen. No. 1,400,019; Dec. 13.
Phonograph. E. J. R. Atkinson. No. 1,399,917; Dec. 13.
Phonograph-records &c., Dies for molding. T. Steventon. No. 1,399,817; Dec. 13.
Phonograph-stil, Chuck for. M. M. Gruber. No. 1,400,154; Dec. 13.
Phonograph, Safety device for. C. H. Kolling. No. 1,400,079; Dec. 13.
Phonographic tablet. V. H. Emerson. No. 1,399,767; Dec. 13.
Pieces which should be of the same actual size, Instrument adapted to disclose the difference actually existing between. F. Turrettini. No. 1,400,331; Dec. 13.
Picture-hanger. P. J. Goble. No. 1,400,150; Dec. 13.
Pie-crimper and cutter. R. H. F. Stagge. No. 1,400,383; Dec. 13.
Pills, Machine for filling pill-boxes with a regular quantity of. R. S. Mercer. No. 1,400,304; Dec. 13.
Pipe-buck. J. C. Hughes. No. 1,400,067; Dec. 13.
Pipe-hanger. W. Harding. No. 1,399,960; Dec. 13.
Pipe, Machine for making reinforced-concrete. B. J. Plummer and J. L. Halstead. No. 1,400,457; Dec. 13.
Pipe-wrench. J. N. Dart. No. 1,399,851; Dec. 13.
Pipes, Cut-out for exhaust-. S. P. Smurr. No. 1,400,325; Dec. 13.
Pipes, Expansion-joint for. S. Sheriff. No. 1,400,465; Dec. 13.
Piston. J. Reif. No. 1,399,704; Dec. 13.
Piston-ring. J. A. Berels and R. T. Crist. No. 1,399,841; Dec. 13.
Plane. H. J. Sweeney. No. 1,400,330; Dec. 13.
Plow. D. W. Gage. No. 1,400,429; Dec. 13.
Plumb-level and protractor. H. L. Hunter. No. 1,400,069; Dec. 13.
Post: *See*—
Fencepost.
Potassium compounds, Obtaining. M. C. Whitaker. No. 1,400,192; Dec. 13.
Poultry-nest. C. E. Folgnant. No. 1,399,872; Dec. 13.
Powder-blower. T. C. Holmes. No. 1,400,162; Dec. 13.
Power transmission. T. P. Reddin. No. 1,399,879; Dec. 13.
Power-transmission device. H. Selders. No. 1,400,185; Dec. 13.
Power transmission, Clutch for. L. Coatalen and H. C. M. Stevens. No. 1,400,265; Dec. 13.
Precious stones during grinding or polishing, Apparatus for making dops to hold. W. J. Davids. No. 1,400,425; Dec. 13.
Press: *See*—
Extension-press. Fuel-press.
Press. W. C. Bowden. No. 1,399,843; Dec. 13.
Press for squeezing sand in flasks. C. E. Schultis. No. 1,400,321; Dec. 13.
Pressers, Headblock for. E. C. Rudoll. No. 1,400,319; Dec. 13.
Pressure-fluid motor. J. E. Pfeffer. No. 1,400,236; Dec. 13.
Print-drier. B. P. Enright. No. 1,400,273; Dec. 13.
Printing-machine. R. H. S. Wolverton. No. 1,400,124; Dec. 13.
Printing machine, Rotary protogravure-. W. Pickup. No. 1,399,987; Dec. 13.
Projectile-thrower. L. R. Harvey. No. 1,400,058; Dec. 13.
Propeller. D. A. Dickey. No. 1,400,038; Dec. 13.
Propeller-hub, Self-tightening. D. A. Dickey. No. 1,400,039; Dec. 13.
Pull-switch. C. A. Benholdt. No. 1,400,376; Dec. 13.
Pulley. A. Cyr. No. 1,400,142; Dec. 13.
Pulley, Two-way. A. Heil. No. 1,400,435; Dec. 13.
Pump. H. S. Tooker. No. 1,400,188; Dec. 13.
Pump, Double-acting duplex. B. F. Curtis. No. 1,400,477; Dec. 13.
Pumps, Twin-cylinder single-acting vertical plunger-. B. F. Curtis. No. 1,400,422; Dec. 13.
Pyrotechnic composition. H. R. Fulton. Nos. 1,399,953–4; Dec. 13.
Quick-break double-through switch. F. Zenker. No. 1,400,460; Dec. 13.
Quick-break double-throw switch. A. P. Ball. No. 1,400,848; Dec. 13.
Quick-break double-throw switch. B. D. Horton. No. 1,400,880; Dec. 13.
Quick-break double-throw switch. A. R. Woolfolk, Jr. No. 1,400,337; Dec. 13.
Radiator, Cellular. A. W. L. Hartbauer. No. 1,399,767; Dec. 13.
Radiator-protector. J. P. Garver. No. 1,399,859; Dec. 13.
Radiator-shield for motor-vehicles. H. J. Sauvage. No. 1,400,184; Dec. 13.
Radiotelegraphy. H. F. Elliott. No. 1,399,945; Dec. 13.
Rail-tie, Metal. J. K. Wedgeworth. No. 1,399,909; Dec. 13.
Railway-crossing signal. H. J. Ridout. No. 1,400,458; Dec. 13.
Railway-rail joint, Base-supported. A. Johnsen. No. 1,400,291; Dec. 13.
Railway safety appliance, Automatic. J. H. Munderback. No. 1,400,031; Dec. 13.
Railway-switch. J. Alonso. No. 1,399,914; Dec. 13.
Railway-tie. M. Pace. No. 1,400,375; Dec. 13.
Railway-track. H. C. Sawyer. No. 1,399,802; Dec. 13.
Rat-trap. R. F. Kent. No. 1,399,965; Dec. 13.
Ratchet mechanism. H. W. Hunt and F. E. Cardullo. No. 1,400,008; Dec. 13.
Ratchet-wrench. W. L. Beaty. No. 1,400,254; Dec. 13.
Razor, Safety-. F. De Grazia. No. 1,400,031; Dec. 13.
Reamer. H. R. Hughes. No. 1,399,863; Dec. 13.
Receptacles, Method and apparatus for lining. F. J. MacDonald. No. 1,399,780; Dec. 13.
Reel: *See*—
Wire-reel.
Register: *See*—
Furnace-register.
Regulator: *See*—
Furnace-damper regulator.
Regulator. S. F. Briggs. No. 1,399,741; Dec. 13.
Reinforcing-bar. H. Fougner. No. 1,400,278; Dec. 13.
Reproducer. J. Belpedio. No. 1,399,922; Dec. 13.
Resilient material. M. Golein. No. 1,400,151; Dec. 13.
Resilient wheel. L. P. Erb. No. 1,400,274; Dec. 13.
Rice for manufacturing soy. M. Oniki. No. 1,400,374; Dec. 13.
Rifles, Automatically-releasable magazine for machine-. L. A. Weed. No. 1,400,252; Dec. 13.
Rims, Fixed rim and locking-ring structure for demountable. L. B. Harvey. No. 1,399,941; Dec. 13.
Ring: *See*—
Piston-ring.
Ring-setting. R. Rosenthal. No. 1,400,460; Dec. 13.
Road-vehicle signal. O. Lehmann. No. 1,399,776; Dec. 13.
Roller: *See*—
Shade-roller. Tread-roller.
Rope tightener, Tent-. J. V. Lofquist. No. 1,400,445; Dec. 13.
Rubber articles, Making hollow. W. A. Eggers and T. Davis. No. 1,400,146; Dec. 13.
Rubber, Compounding. W. G. O'Brien. No. 1,400,281; Dec. 13.
Rubber finish and process, Composition for. W. E. Miller. No. 1,400,090; Dec. 13.
Rubber goods, Apparatus and method for handling. T. Sloper. No. 1,399,898; Dec. 13.
Rubber products, Compounding of. C. O. North. No. 1,399,782; Dec. 13.
Rubber, Treating. W. H. Bines. No. 1,400,137; Dec. 13.
Sadiron. E. Hysell. No. 1,400,437; Dec. 13.
Sadiron, Self-heating. O. Spahr. No. 1,399,818; Dec. 13.
Safe. W. Thörig. No. 1,400,104; Dec. 13.
Safes, Time-lock mechanism for. E. E. Benham and C. P. Bartels. No. 1,400,135; Dec. 13.
Sash. R. H. and G. C. Bliss. No. 1,400,260; Dec. 13.
Saw-filing-machine attachment. L. M. Elliott. No. 1,400,427; Dec. 13.
Saw-handle. J. Tors. No. 1,400,249; Dec. 13.
Saw, Portable power-driven crosscut-. A. Helmberg. No. 1,400,064; Dec. 13.
Saw, Power-. J. D. Bohbroff. No. 1,400,496; Dec. 13.
Scale. A. E. Weine. No. 1,400,469; Dec. 13.
Scrapers, &c., Holding-tool for sharpening. F. O. Hubricht. No. 1,400,065; Dec. 13.
Screw expansion-shield, Leg-. J. E. Ogden. No. 1,400,405; Dec. 13.
Seal-press, &c. R. E. Beckert. No. 1,399,735; Dec. 13.
Seat. J. H. Stoots. No. 1,399,820; Dec. 13.
Semifluid material, Apparatus for applying. D. S. Chapin. No. 1,399,849; Dec. 13.
Separator: *See*—
Grain-separator. Wild-oat separator.
Separator. T. J. Sturtevant. No. 1,400,467; Dec. 13.
Sewing-machine, Lock-stitch. H. Correll. No. 1,400,141; Dec. 13.
Sewing-machines, Buttonhole-cutting mechanism for. E. B. Allen. No. 1,399,731; Dec. 13.
Shade-roller. H. Sorensen. No. 1,399,812; Dec. 13.
Shaper-machines, Adjustable guide-collar for. W. R. White. No. 1,400,472; Dec. 13.
Shears. E. C. Hoyer. No. 1,400,378; Dec. 13.
Shock-absorber for drive-shafts. A. B. Manchester. No. 1,400,303; Dec. 13.
Shoe construction. F. Dial. No. 1,400,143; Dec. 13.
Shoe-form. J. C. Schelter. No. 1,399,804; Dec. 13.
Shoe-machines, Work-supporting means for. C. H. Hoyt. No. 1,397,771; Dec. 13.
Shoes, Mechanism for use in attaching shank-pieces to. F. L. Ayers and E. L. Mackenzie. No. 1,399,732; Dec. 13.
Shoe-polishing machine. J. H. Karp. No. 1,400,440; Dec. 13.
Shoes, Machine for operating upon. B. F. Mayo. No. 1,399,784; Dec. 13.
Shoes, Machine for pressing the soles of. M. Brock. No. 1,399,742; Dec. 13.
Shore. O. L. Wallace. No. 1,400,109; Dec. 13.
Shortening material, Apparatus for manufacturing. V. Hechler. No. 1,400,216; Dec. 13.
Shuttle-eye. J. C. Shambow. No. 1,399,893; Dec. 13.
Shuttle tension. G. D. Wilms and J. H. Steiger. No. 1,400,397; Dec. 13.
Sign, Advertising-. E. O. La Roche. No. 1,400,081; Dec. 13.
Sign, Changeable. H. Jaquette. No. 1,400,433; Dec. 13.
Sign, Illuminated. I. J. Kusel. No. 1,400,296; Dec. 13.
Signal: *See*—
Railway-crossing signal. Road-vehicle signal.

Signal systems, Recording device for. P. P. Dean. No. 1,400,270; Dec. 13.
Signaling device. W. V. Bergen. No. 1,399,937; Dec. 13.
Signaling system. H. C. Egerton. No. 1,400,[illegible]; Dec. 13.
Signaling system. B. H. Grace. No. 1,400,080; Dec. 13.
Silo-door-fastening device. F. J. Van Cott. No. 1,400,250; Dec. 13.
Silo structure and anchoring system therefor. F. J. Van Cott. No. 1,400,251; Dec. 13.
Skein, Adjustable wagon-. P. Stewart. No. 1,400,[illegible]; Dec. 13.
Skiving-machine. P. R. Glass. No. 1,399,76[illegible]; Dec. 13.
Slag-disintegrator. A. G. Carlson. No. 1,399,84[illegible]; Dec. 13.
Sleeve-holder. S. Abe. No. 1,399,730; Dec. 13.
Slicer, Fruit-. C. S. Fish. No. 1,399,950; Dec. 13.
Snap-fasteners, Machine for carding. E. L. Roger. No. 1,400,002; Dec. 13.
Soldering-iron. A. A. Frum. No. 1,400,148; Dec. 13.
Soldering-iron, Electrically-heated. J. T. Grime and W. A. Timm. No. 1,400,[illegible]; Dec. 13.
Soldering-strip. F. H[illegible]. No. 1,399,7[illegible]; Dec. 13.
Sole-channeling machine. J. H. Doyle. No. 1,399,733; Dec. 13.
Soles, Fabric backing for composition. G. B. Greenough. No. 1,400,428; Dec. 13.
Sound-generator. M. I. Pupin. No. 1,399,877; Dec. 13.
Spark-plug. H. L. Flood. No. 1,400,276; Dec. 13.
Spark-plug. J. H. Townsend. No. 1,399,827; Dec. 13.
Spark-plug packing. R. R. Senour and L. T. White. No. 1,400,464; Dec. 13.
Speed-changing mechanism. C. C. Blake. No. 1,399,787; Dec. 13.
Speedometer, Magnetic. A. C. Wood. No. 1,400,198; Dec. 13.
Spike-making machine. I. C. Van Fossen. No. 1,400,302; Dec. 13.
Spinning-frames, Cap-winding attachment for. K. Stewart. No. 1,400,000; Dec. 13.
Spring: *See*—
Bed-spring.
Spring. A. G. Wicker. No. 1,400,253; Dec. 13.
Spring-motors, Winding means for. J. J. Phillips. No. 1,399,790; Dec. 13.
Stamping-dies. L. E. Cameron. No. 1,400,416; Dec. 13.
Staybolt construction, Boiler. J. A. Dowd. No. 1,399,942; Dec. 13.
Stock-watering tank. C. O. Whitnell. No. 1,400,194; Dec. 13.
Stone-crusher. P. Bechgaard. No. 1,400,257; Dec. 13.
Stove, Cooking. T. Kaufer. No. 1,400,221; Dec. 13.
Stove, Manifold-. J. H. Carmean, H. F. and J. M. Roberts. No. 1,400,023; Dec. 13.
Stove, Vapor-. R. H. Stephens. No. 1,400,384; Dec. 13.
Stoves, Drip-pan for. L. S. Chadwick. No. 1,399,747; Dec. 13.
Stovepipe-cleaner. H. O. Sholdebrand. No. 1,400,241; Dec. 13.
Stringer. J. F. Pritchett. No. 1,399,875; Dec. 13.
Stripping machine, Willow-bark-. G. Gerace. No. 1,399,057; Dec. 13.
Submarine telephonic transmitter. H. R. Gilson. No. 1,400,283; Dec. 13.
Submerged or partially-submerged obstructions, Apparatus for offense or defense against. C. D. Burney. No. 1,400,211. Dec. 13.
Subetation, Common-battery. K. S. Johnson. No. 1,399,775; Dec. 13.
Sulfate of lime, Treatment of liquids containing. H. J. Ball. No. 1,399,845; Dec. 13.
Superheater, Steam-. D. S. Jacobus. No. 1,399,773; Dec. 13.
Switch: *See*—
Electric railway-switch. Quick-break double-throw switch.
Electric switch. Railway-switch.
Electrical switch.
Pull-switch.
Quick-break double-throw-back switch.
Switch. F. A. Manau. No. 1,399,781; Dec. 13.
Switch-stands, Safety-lock for. C. H. Severs. No. 1,399,808; Dec. 13.
Syringe, Aperture-cleaning. S. Wilinski. No. 1,399,834; Dec. 13.
T-square, Adjustable blackboard. M. L. Curts. No. 1,399,935; Dec. 13.
Table. G. F. Hahn. No. 1,400,432; Dec. 13.
Tables, Server for dining-. M. R. Brubaker. No. 1,400,209; Dec. 13.
Tacking mechanism. E. E. Rowe. No. 1,399,799; Dec. 13.
Tank: *See*—
Stock-watering tank.
Tank. A. Brile. No. 1,400,345; Dec. 13.
Telegraph, Printing-. H. Pfannenstiehl and E. F. Watson. No. 1,399,993; Dec. 13.
Telegraph system. A. F. Dixon. No. 1,400,035; Dec. 13.
Telegraph system. P. M. Rainey. No. 1,399,907; Dec. 13.
Telegraph system. P. M. Rainey. No. 1,400,493; Dec. 13.
Telegonlometer. W. L. Hogg. No. 1,399,963; Dec. 13.
Telephone-exchange system. C. W. Keckler. No. 1,400,075; Dec. 13.
Telephone-exchange system. S. B. Williams, Jr. No. 1,400,120; Dec. 13.
Telephone-exchange system, Semi-automatic. L. Perlkowsky. No. 1,400,181; Dec. 13.
Telephone-exchange systems, Automatic switch for. A. H. Adams. No. 1,400,726; Dec. 13.
Telephone signaling system. C. W. Keckler. No. 1,400,076; Dec. 13.
Telephony, Switching in. J. E. Thomas. No. 1,400,187; Dec. 13.
Telephone system. A. Raymond. No. 1,399,930; Dec. 13.
Telephone-transmitters, Guard for. O. H. Wetterich. No. 1,400,334; Dec. 13.
Tenoning and paring device. J. M. Newton. No. 1,400,371; Dec. 13.
Tenoning device, Automatically-adjustable. F. M. Pierce. No. 1,[illegible]; Dec. 13.
Thermostatic device. H. E. Reeve. No. 1,400,738; Dec. 13.
Tie: *See*—
Metal rail-tie. Railway-tie.
Tile, Building-. H. C. Blank. No. 1,400,497; Dec. 13.
Tile-cutter, Automatic. N. C. Whitney. No. 1,400,473; Dec. 13.
Tire, Armored pneumatic. J. B. and C. B. Morrill. No. 1,400,480; Dec. 13.
Tire, Automobile-. J. S. McClary. No. 1,401,561; Dec. 13.
Tire-bolting machine. F. C. Morton. No. 1,399,779; Dec. 13.
Tire-cooler, Core for. J. B. Binns. No. 1,400,255; Dec. 13.
Tire-core, Collapsible. H. A. Denmire. No. 1,399,959; Dec. 13.
Tire-shield and clencher-irons therefor. A. Tekheris. No. 1,399,826; Dec. 13.
Tire-spreading tool. D. O. Nation. No. 1,400,483; Dec. 13.
Tires, Breaker-strip for. B. Darrow. No. 1,400,269; Dec. 13.
Tires, Tread for vehicle-. F. B. Carlisle. No. 1,400,263; Dec. 13.
Toe-bolt. F. C. Knapik. No. 1,400,364; Dec. 13.
Toilet. D. S. Burk. No. 1,399,927; Dec. 13.
Tool-holder. T. Hinton. No. 1,400,063; Dec. 13.
Toy aeroplane. L. J. Perkins. No. 1,400,097; Dec. 13.
Toy aeroplane or glider. M. R. McInnis. No. 1,400,274; Dec. 13.
Toy, Musical. E. Strobl. No. 1,400,386; Dec. 13.
Toy set, Construction. A. Huck. No. 1,400,066; Dec. 13.
Toy vehicle. A. C. Wiebe. No. 1,399,[illegible]; Dec. 13.
Track-clamp. J. Whitaker. No. 1,400,[illegible]; Dec. 13.
Tractor. H. and L. Nilson. No. 1,400,240; Dec. 13.
Tractor-coupling. A. J. Anderson. No. 1,400,405; Dec. 13.
Tractor, Line-controlled. L. S. Woodhull. No. 1,400,494; Dec. 13.
Tractor structure. W. G. Howe. No. 1,400,218; Dec. 13.
Tractor transmission mechanism. G. I. Gargett. No. 1,400,044; Dec. 13.
Trailer. L. A. Dow. No. 1,400,349; Dec. 13.
Trailer, Two-wheeled. F. T. Falco. No. 1,400,351; Dec. 13.
Train-control system, Automatic. O. A. Ross. No. 1,399,796; Dec. 13.
Train-stopping, telephonic, and block-signal system, Automatic. W. H. Adkins. No. 1,400,201; Dec. 13.
Transmission. A. J. Karl and B. F. Webb. No. 1,400,500; Dec. 13.
Trap: *See*—
Animal-trap. Rat-trap.
Oil-separator trap.
Tread-roller. P. H. Wilkinson. No. 1,400,474; Dec. 13.
Treating substances. B. A. Gould. No. 1,400,484; Dec. 13.
Trolley-clamp. A. L. Freret. No. 1,399,857; Dec. 13.
Trolley-harp attachment. J. C. Cooper, Sr. No. 1,400,476; Dec. 13.
Trolley, Pantograph-. W. Schaake. No. 1,400,101; Dec. 13.
Trough:
Operating-trough.
Trough-cover-lifting mechanism. M. Rosenkrans. No. 1,399,[illegible]; Dec. 13.
Trough-dumping mechanism. M. Rosenkrans. No. 1,[illegible],882; Dec. 13.
Trucks, &c., Drive for. H. L. Craven. No. 1,399,933; Dec. 13.
Trucks, Gate for dumping-. H. Mecking. No. 1,400,369; Dec. 13.
Trunk, Wardrobe-. L. Diamond. No. 1,399,752; Dec. 13.
Tube: *See*—
Molded tube. X-ray tube.
Tube construction. J. F. Muldoon. No. 1,400,452; Dec. 13.
Tube-machines, Heat-regulating attachment for. L. T. Frederick. No. 1,400,048; Dec. 13.
Tube-mill. R. C. Newhouse. No. 1,399,982; Dec. 13.
Tube, Molded. W. H. Kempton. No. 1,400,078; Dec. 13.
Tug, Harness-. N. Patts. No. 1,399,869; Dec. 13.
Turbo-blower assembly. E. H. Sherbondy. No. 1,400,322; Dec. 13.
Turbo-compresser casing. E. H. Sherbondy. No. 1,400,323; Dec. 13.
Turning-machine, Automatic. F. H Bancroft. No. 1,400,013; Dec. 13.
Typewriters, Manifold attachment for. F. G. White. No. 1,399,812; Dec. 13.
Typewriters, Tabulator-stop for. W. Molle. No. 1,400,492; Dec. 13.

Typographical machine. W. J. Irwin. No. 1,400,070; Dec. 13.
Ultramarine, Manufacture of. A. Guillochin. No. 1,400,431; Dec. 13.
Utensil, Cooking. R. B. Kirk and J. B. Young. No. 1,399,566; Dec. 13.
Vacuum-cleaner. E. E. Mellenthin. No. 1,400,448; Dec. 13.
Valve. H. K. Kriebel. No. 1,400,172; Dec. 13.
Valve-actuating device. A. Swanson. No. 1,399,824; Dec. 13.
Valve, Check-. L. B. Baker. No. 1,400,011; Dec. 13.
Valve-cleaner. D. D. Henderson. No. 1,399,962; Dec. 13.
Valve for air compressors. B. V. Nordberg. No. 1,400,373; Dec. 13.
Valve, Fluid-. H. P. Booth. No. 1,400,411; Dec. 13.
Valve for motors. C. O. Landgrebe. No. 1,400,488; Dec. 13.
Valve-grinder. F. F. Richard. No. 1,400,000; Dec. 13.
Valve-grinding device. C. C. Lott. No. 1,400,365; Dec. 13.
Valve, Irrigation-. J. A. Carr. No. 1,399,928; Dec. 13.
Valve-lifter. T. Sandefur. No. 1,400,463; Dec. 13.
Valve mechanism, Tappet-. F. G. Alborn. No. 1,399,859; Dec. 13.
Valve-spring compressor. H. W. Coddington. No. 1,400,027; Dec. 13.
Valve structure. S. E. Derby. No. 1,400,424; Dec. 13.
Valve structure. R. M. Pierson. No. 1,399,791; Dec. 13.
Valves, Biphonic controlling means for. E. W. Buckley. No. 1,400,022; Dec. 13.
Vanity-case for personal wear. M. H. Brosnan. No. 1,400,189; Dec. 13.
Vaporizer. P. O. Rowlands. No. 1,400,377; Dec. 13.
Vehicle. R. T. Newton. No. 1,400,372; Dec. 13.
Vehicle, Childs'. C. Sollima. No. 1,400,326; Dec. 13.
Vehicle of the self-laying-track type. F. Reddaway. No. 1,400,100; Dec. 13.
Vehicle-wheel hub. E. R. Wagner. No. 1,400,112; Dec. 13.
Vehicles, Detachable inclosure for motor-. W. Dickinson. No. 1,400,271; Dec. 13.
Vehicles, Electric lamp for. P. O. Dorer. No. 1,399,940; Dec. 13.
Vehicles, Signal for use on. G. A. Garth. No. 1,399,955; Dec. 13.
Vehicles, Skid for motor-. J. Deschamps. No. 1,400,478; Dec. 13.
Vehicles, Splash-guard for wheels of motor-. J. H. Stirk. No. 1,400,010; Dec. 13.
Vehicles, Trailer for. H. B. McCabe. No. 1,400,300; Dec. 13.
Vending machine, Stamp-. J. J. Schermack. No. 1,399,880; Dec. 13.
Ventilator: *See*—
Window-ventilator.
Vessel, Cargo. W. Lambert. No. 1,400,298; Dec. 13.
Vessels, Raising submerged. J. W. Reno. No. 1,400,316; Dec. 13.
Vibrating mechanism. F. E. Kling and L. B. Weidlein. No. 1,400,160; Dec. 13.
Violin and producing the same. J. Gorman. No. 1,400,153; Dec. 13.
Vise, Bench-. J. E. Messenger. No. 1,399,786; Dec. 13.
Washing-machine. L. J. Stukey. No. 1,400,388; Dec. 13.
Washing-machine draw-off. F. Russell. No. 1,399,800; Dec. 13.
Washing-machines, Drive and reversing mechanism for. C. Weihart. No. 1,399,910; Dec. 13.
Watch-casing, Three-piece. L. Lehr. No. 1,400,083; Dec. 13.
Water-bed fence. R. P. Stine. No. 1,399,810; Dec. 13.
Water-cleaning plant. H. Wehner. No. 1,400,129; Dec. 13.
Water-heating device. J. H. Bacon. Nos. 1,399,918–9; Dec. 13.
Water-softening washing compound. O. Volz. No. 1,400,332; Dec. 13.
Water-trough. A. N. Menard. No. 1,400,449; Dec. 13.
Water-closets, Flush for. E. Levine. No. 1,400,222; Dec. 13.
Waterproofing material and making same. H. H. Hurt. No. 1,400,164; Dec. 13.
Wax flowers and making them. L. D. Singer. No. 1,400,324; Dec. 13.
Weather-stripping. E. H. Berg. No. 1,400,206; Dec. 13.
Weaving-machine. T. Terrell. No. 1,399,904; Dec. 13.
Weeder, Onion-. C. Butler. No. 1,400,414; Dec. 13.
Weevil-exterminator. C. C. Roe. No. 1,400,459; Dec. 13.
Well-cleaning device. F. E. Crotto. No. 1,400,030; Dec. 13.
Wheel: *See*—
Car-wheel. Resilient wheel.
Metal wheel.
Wheel. T. C. Harvey. No. 1,400,437; Dec. 13.
Wheel-hub. P. J. Kilcullen. No. 1,400,442; Dec. 13.
Wheels, Forming disk. G. H. Forsyth. No. 1,399,951; Dec. 13.
Wild-oat separator. R. L. Owens. No. 1,400,239; Dec. 13.
Window-screen construction. W. H. Ray. No. 1,399,878; Dec. 13.
Window-ventilator. S. Meyer. No. 1,399,787; Dec. 13.
Windshield. H. J. Earl. No. 1,400,479; Dec. 13.
Wire box-strapping, Device for tightening and securing round-. L. S. Gans. No. 1,400,046; Dec. 13.
Wire-reel. E. L. Crosswhite. No. 1,399,934; Dec. 13.
Wire-stretcher. D. J. O'Conner, C. A. Nelson, and C. Nahabed. No. 1,400,093; Dec. 13.
Wire wheels, Shaping and truing. H. A. House, Jr. No. 1,399,770; Dec. 13.
Wrapping and means for practising same. W. H. Wheildon. No. 1,400,116; Dec. 13.
Wrapping-machine. H. Y. Armstrong. No. 1,400,202; Dec. 13.
Wrench: *See*—
Chain wrench. Ratchet-wrench.
Grease-cup wrench.
Wrench. V. A. Anderson. No. 1,400,134; Dec. 13.
Wrench. W. E. Hart. No. 1,400,285; Dec. 13.
Wrench. C. W. King. No. 1,399,966; Dec. 13.
Wrench. H. R. Milan. No. 1,400,226; Dec. 13.
Wrench. W. L. Morgan. No. 1,400,451; Dec. 13.
Wrapping-machine, Horizontal-shuttle. F. M. Pierce. No. 1,399,989; Dec. 13.
Wrench, E. P. Schwars. No. 1,399,890; Dec. 13.
Wringer. H. Hansen. No. 1,400,433; Dec. 13.
X-ray system, Fluoroscopic. H. F. Waite. No. 1,400,333; Dec. 13.
X-ray tube. T. B. Rider. No. 1,400,001; Dec. 13.
Yarn package, and method and mechanism for winding it. T. Andrew. No. 1,400,403; Dec. 13.
Yarns, Frame for doubling. F. Chadwick. No. 1,400,026; Dec. 13.

ALPHABETICAL LIST OF DESIGNS.

Auto-radiator cap. L. R. Steele. No. 59,987; Dec. 13.
Automobile-radiator cap. M. Simon. No. 59,985; Dec. 13.
Automobile-radiator core. A. Farrella. No. 59,976; Dec. 13.
Bed-cover retainer. D. B. Humbird. No. 59,961; Dec. 13.
Bottle. V. Vivaudou. No. 59,994; Dec. 13.
Bracelet, Watch-. S. Lederer. No. 59,972; Dec. 13.
Cabinet, Shaving-. M. Jurek. No. 59,967; Dec. 13.
Candy or cake confection, Edible. R. Vesely. No. 59,993; Dec. 13.
Card, Display-. C. F. Farnham. No. 59,955; Dec. 13.
Casket-handle. F. B. Aston. No. 59,946; Dec. 13.
Charm. E. L. Weed. No. 59,996; Dec. 13.
Clevis, Lazy-horse. M. Parker. No. 59,977; Dec. 13.
Curtain-fitting. E. L. Wilson. No. 59,998; Dec. 13.
Dentists' use, Receptacle for. S. M. Hartt. No. 59,965; Dec. 13.
Dice. F. J. Kromenaker. No. 59,970; Dec. 13.
Doll. A. Keenan. Nos. 59,968–9; Dec. 13.
Doll. M. M. Zimmerman. No. 59,999; Dec. 13.
Emblem, badge, ring, stickpin, brooch, watch-charm, lapel-button. B. C. Dennis and R. M. Shipley. No. 59,984; Dec. 13.
Fan, Motor-. T. Nakamura. No. 59,975; Dec. 13.
Foot-band. C. Tweedie. Nos. 59,990–1; Dec. 13.
Hose, Apparatus for housing. L. E. Baker. No. 59,949; Dec. 13.
Insulator. A. O. Austin. No. 59,947; Dec. 13.
Lamp-shade. B. H. Scotford. No. 59,983; Dec. 13.
Lamp-stand. E. S. Pease. No. 59,979; Dec. 13.
Lighting-fixtures, Ring for. A. Ullman. No. 59,992; Dec. 13.
Oil-burner body. C. B. Webb. No. 59,995; Dec. 13.
Phonograph. W. H. Thommen. No. 59,989; Dec. 13.
Phonograph, Sound-box for a. E. C. Howard. No. 59,960; Dec. 13.
Picture machine, Moving-. F. W. Hochstetter. No. 59,958; Dec. 13.
Ring, Finger-. C. W. Bailey. No. 59,948; Dec. 13.
Roaster, Aluminum. H. A. Church. No. 59, 953; Dec. 13.
Rubber mat and cover. H. Joseph. No. 59,960; Dec. 13.
Sharpener, Knife-. S. Brook. No. 59,951; Dec. 13.
Shingle, Roofing-. C. Russell. No. 59,981; Dec. 13.
Shirt. B. L. Homel. No. 59,959; Dec. 13.
Shoe-sole. D. T. Lebo. No. 59,971; Dec. 13.
Siphon-tube holder. F. G. Meyer. No. 59,974; Dec. 13.
Statuette. H. Tyler and A. S. Pascal. No. 59,978; Dec. 13.
Stocking. S. Swanson. No. 59,988; Dec. 13.
Stone, Precious, semi precious, or synthetic. E. L. Weed. No. 59,997; Dec. 13.
Stove, Gas-. A. H. Humphrey. Nos. 59,962–3; Dec. 13.
Stoves, Radiant for gas-. A. H. Humphrey. No. 59,964; Dec. 13.
Syringes, Nozzle for. H. L. Bruen. No. 59,952; Dec. 13.
Tablet, Medicinal. A. Blackstone. No. 59,950; Dec. 13.
Tape-transmitter casing. W. G. Fluharty. No. 59,956; Dec. 13.
Tire. L. B. F. Schoenfeldt. No. 59,982; Dec. 13.
Tire-tread. W. W. McMahan. No. 59,973; Dec. 13
Truck-cab. F. G. Proctor. No. 59,980; Dec. 13.
Utensils, Knob for cooking or kitchen. G. E. Curtiss. No. 59,954; Dec. 13.
Waffle-iron, Electrically-heated. F. F. Forshee. No. 59,957; Dec. 13.
Watch-bow, Pendant. S. Spitzer. No. 59,986; Dec. 13.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Air-compressors, pumps, turbines, and turbine-engines. Nash Engineering Co. No. 149,460; Dec. 13.
Ammeters and voltmeters, oil-pressure gages, oil-indicators. W. G. Nagel Electric Co. Nos. 149,595–6; Dec. 13.
Apples, potatoes, and milk, dressed chickens, Fresh. P. N. Popason. No. 149,485; Dec. 13.
Asphaltum-base paint. United States Asphalt Refining Company. No. 149,621; Dec. 13.
Auto-bodies, Chemical preparation for the removal of road-tar from. Solene Products Company. No. 149,508; Dec. 13.
Automobile, floor, &c., polish. D. D. Wolfram. No. 149,555; Dec. 13.
Automobile, furniture, &c., polishes. R. B. Wright. No. 149,559; Dec. 13.
Automobiles, motor-trucks, &c. Gramm-Bernstein Motor Truck Company. No. 149,502; Dec. 13.
Babbitt-lined bearings. American Bearing & Die Casting Corporation. No. 149,337; Dec. 13.
Ball-cocks, Toilet tank and trough. Rex Supply Company. No. 149,490; Dec. 13.
Batteries and connectors therefor, Secondary. Westinghouse Union Battery Co. No. 149,625; Dec. 13.
Bedspreads. Marshall Field & Company. No. 149,448; Dec. 13.
Belting. B. F. Goodrich Company. No. 149,389; Dec. 13.
Beverage, Non-alcoholic, maltless. H. W. Van Doren. No. 149,537; Dec. 13.
Beverages and syrup for making same. H. B. Bischoff. No. 149,349; Dec. 13.
Beverages and syrups for making same. A. C. Jewell. No. 149,427; Dec. 13.
Beverages, Malt and hop. Sethness Company. No. 149,501; Dec. 13.
Beverages, Maltless non-alcoholic. Stoneward Corp. No. 149,513; Dec. 13.
Bicycles. D. P. Harris Hardware & Manufacturing Co. No. 149,581; Dec. 13.
Blankets made of cotton and of a mixture of cotton and wool. W. S. Libbey Company. No. 149,431; Dec. 13.
Blood-purifying solution. Placek & Briscoe. No. 149,604; Dec 13.
Boiler compound and also antifreezing compound. H. F. Hayden. No. 149,404; Dec. 13.
Bottle-capping machines. S. J. Levy. No. 149,588; Dec. 13.
Bottle-treating machines, fruit treating and canning machinery, carbonating machines, Certain. McKenna Brass & Manufacturing Co. No. 149,591; Dec. 13.
Boxes, Cigar-. State Leaf Tobacco Co. No. 149,510; Dec. 13.
Braces, extension-shoes, artificial limbs, &c., Deformity-. Chicago Orthopedic Appliance Company. No. 149,359; Dec. 13.
Brushes, Dust-. Woven Down Duster Company. No. 149,558; Dec. 13.
Brushes, Lather-. Hardright Company. Nos. 149,400–3; Dec. 13.
Buttermilk, Powdered. Collis Products Company. No. 149,363; Dec. 13.
Cake. Ward Baking Company. No. 149,540; Dec. 13.
Calculating-machines. Marchant Calculating Machine Company. No. 149,592; Dec. 13.
Calculating-machines. Rockford Milling Machine Company. No. 149,610; Dec. 13.
Candy. Chocolate Products Company. No. 149,567; Dec. 13.
Candy. Chocolate Truffles Co. No. 149,360; Dec. 13.
Candy. Van Antwerp's Drug Corporation, Inc. No. 149,536; Dec. 13.
Canned and bottled honey and boxes of honeycomb. H. M. Fox. No. 149,383; Dec. 13.
Canned grapefruit. Spanish American Fruit Co. No. 149,616; Dec. 13.
Cans and pails, Sheet-metal. Shalita Bros. No. 149,502; Dec. 13.
Carriages and go-carts, Baby. Sturgis Steel Go-Cart Co. No. 149,620; Dec. 13.
Casters. Bassick Company. Nos. 149,347–8; Dec. 13.
Castings, Non-ferrous. Acme Die Casting Corporation. No. 149,333; Dec. 13.
Cider. Medina Fruit Products Co. Nos. 149,452–3; Dec. 13.
Cigars. Congress Cigar Company. No. 149,573; Dec. 13.
Cigarette-papers and tubes for cigarettes. C. E. Pfeiffer. Nos. 149,474–81; Dec. 13.
Cheese. Gust. & H. Probst A. G. No. 149,307; Dec. 13.
Clothes-washing powder. Wash With Ease Company. No. 149,622; Dec. 13.
Coffee. D. C. Winebrener & Son, Inc. No. 149,551; Dec. 13.
Coffee. Woolson Spice Co. No. 149,557; Dec. 13.
Concrete mixers and distributing machines, loading-skips, paving-machines, traction-graders. Koehring Machine Company. No. 149,585; Dec. 13.
Conveyers and conveying machinery and parts thereof. Certain. Alvey-Ferguson Company. No. 149,336; Dec. 13.
Cooking utensils, Aluminum. Leyse Aluminum Company. No. 149,430; Dec. 13.
Cornmeal, Graham and wheat flour, dairy, horse, &c., feeds. H. A. Liedel & Son. No. 149,432; Dec. 13.
Corn, Popping. E. D. Bradshaw. No. 149,346; Dec. 13.
Corn-starch. Corn Products Refining Co. No. 149,365; Dec. 13.
Cotton and wool dress goods in the piece. W. W. Rycroft & Co. No. 149,494; Dec. 13.
Cotton batting, particularly glazed cotton wadding. Stearns & Foster Company. Nos. 149,616–9; Dec. 13.
Cotton goods in the piece. Smith, Hogg & Co. No. 149,506; Dec. 13.
Cotton piece goods. Brune, Pottberg & Co. No. 149,354; Dec. 13.
Cotton piece goods. Pacific Mills. No. 149,467; Dec. 13.
Cotton piece goods. G. Sidenberg & Co. No. 149,503; Dec. 13.
Cotton piece goods. United Turkey Red Company Limited. No. 149,535; Dec. 13.
Cotton voiles in piece goods. N. Erlanger, Blumgart & Co. No. 149,377; Dec. 13.
Cotton, woolen, linen and combination piece goods. Everett, Heaney & Company. No. 149,379; Dec. 13.
Corrugated fiber packages, folding and paper boxes. J. M. Raffel Co. No. 149,606; Dec. 13.
Cream for the complexion. A. E. Reynolds. No. 149,608; Dec. 13.
Cream, Toilet. F. H. Young. No. 149,626; Dec. 13.
Cutlery, and table flat-ware, and nutcrackers. Mappin & Webb. Nos. 149,446–7; Dec. 13.
Dairy products. Red Wing Corporation Company. No. 149,488; Dec. 13.
Dental plaster. J. D. Caughey. No. 149,566; Dec. 13.
Dental-plate suction devices. J. Lehner. No. 149,429; Dec. 13.
Dogs, Thoroughbred. J. Gans. No. 149,576; Dec. 13.
Dolls. Miller Rubber Company, The. No. 149,455; Dec. 13.
Dressing for auto-tops, mohair, canvas, belts, &c. Textile, Leather & Metal Preserver Co. No. 149,522; Dec. 13.
Drill-rods and cold-drawn steel. Pittsburgh Tool Steel Wire Company. No. 149,483; Dec. 13.
Drink, Maltless soft. J. A. Ring. No. 149,609; Dec. 13.
Dust-collectors and separators, hoods, fans, and blowers. York Heating and Ventilating Corporation. No. 149,627; Dec. 13.
Enamel, White. O'Brien Varnish Company. No. 149,602; Dec. 13.
Envelops, Parcel-post mailing-. Bemis Bro. Bag Co. No. 149,343; Dec. 13.
Feed, Dairy. M. C. Peters Mill Co. No. 149,473; Dec. 13.
Feed, Dairy. Temtor Corn & Fruit Products Co. No. 149,518; Dec. 13.
Feed for stock, Fattening. Temtor Corn & Fruit Products Co. No. 149,519; Dec. 13.
Feed, Horse and mule. Temtor Corn & Fruit Products Co. No. 149,520; Dec. 13.
Feed, Prepared poultry. W. J. McKay. No. 149,441; Dec. 13.
Feed, Stock. Temtor Corn & Fruits Products Co. No. 149,517; Dec. 13.
Feed, Stock or sweet. Temtor Corn & Fruit Products Co. No. 149,516; Dec. 13.
Fertilizers. U. S. Industrial Chemical Co. No. 149,532; Dec. 13.
Files, gravers, tweezers, &c. H. Paulson. No. 149,471; Dec. 13.
Fish, Fresh. East Coast Fisheries Products Company. No. 149,372; Dec. 13.
Flooring, Wooden. Carter Bloxonend Flooring Co. No. 149,565; Dec. 13.
Flour and self-rising wheat-flour, Wheat-. Mayflour Mills. No. 149,451; Dec. 13.
Flour, Wheat-. H. C. Cole Milling Co. No. 149,362; Dec. 13.
Flour, Wheat-. A. Gastun & Company. No. 149,385; Dec. 13.
Flour, Wheat-. Great West Mill & Elevator Co. Nos. 149,393–5; Dec. 13.
Flour, Wheat-. International Milling Company. No. 149,413; Dec. 13.
Flour, Wheat-. Weber Flour Mills Corporation. No. 149,541; Dec. 13.
Flour, Wheat-. Wichita Flour Mills Co. Nos. 149,549–50; Dec. 13.
Food, Plant. American Florist Soil Co. No. 149,561; Dec. 13.
Foods and ingredients of foods. Saul Magnus & Henry G. Mosler. No. 149,443; Dec. 13.
Foot appliances, Certain corrective. Wizard Foot Appliance Company. No. 149,558; Dec. 13.

Fruit-jars, Glass. Schram Glass Manufacturing Company. No. 149,612; Dec. 13.
Fruits, Fresh citrus. Sebring Citrus Growers Association. No. 149,500; Dec. 13.
Fruits—viz., oranges, grapefruit, pineapples, Fresh. Porto Rico Consolidated Fruit Company. No. 149,446; Dec. 13.
Furnaces, Refractory composition for use in. General Electric Company. No. 149,386; Dec. 13.
Furniture and automobile polishes. Mirand Polish Company. No. 149,456; Dec. 13.
Furniture and auto polish. A. M. Snyder. No. 149,515; Dec. 13.
Furniture and automobile polish. Wisconsin Compounding Company. No. 149,552; Dec. 13.
Furniture-polish. G. Fisher. No. 149,382; Dec. 13.
Furniture-polish. L. I. Gordon. No. 149,390; Dec. 13.
Game apparatus. B. M. Hutchison. No. 149,408; Dec. 13.
Game, Table. G. O. Woods. No. 149,556; Dec. 13.
Gauze for medicinal and surgical purposes, Bleached. Marshall Field & Company. No. 149,503; Dec. 13.
Glass cleansing and polishing liquid. H. T. Frange. No. 149,497; Dec 13.
Golf-balls. United States Rubber Company. No. 149,533; Dec. 13.
Golf-balls and golf-stick grips. Marathon Tire and Rubber Company. No. 149,469; Dec. 13.
Greases, Transmission and like. Parker-Kiskadden Company. No. 149,469; Dec. 13.
Gun-recoil pads for hand-arms. B. F. Goodrich Company. Nos. 149,387–8; Dec. 13.
Hair-curlers. M. J. Peppard. No. 149,603; Dec. 13.
Hair growing and pressing preparations. H. B. Reid. No. 149,607; Dec. 13.
Hair-nets. Breslauer Brothers & Bernstein. No. 149,382; Dec. 13.
Hair-nets. Graf Bros. No. 149,426; Dec. 13.
Hair-nets. Yeomanette Company. No. 149,560; Dec. 13.
Handkerchiefs, Cotton. United Turkey Red Company. No. 149,534; Dec. 13.
Hose, dredging - sleeves, and machinery - packing. B. F. Goodrich Company. No. 149,425; Dec. 13.
Ice - cream. Tri - State Ice Cream Corporation. No. 149,524; Dec. 13.
Indicators of revolution, speed-indicators, &c. E. Jaeger. No. 149,419; Dec. 13.
Ingots of non-ferrous metal. Keystone Die Casting Co. No. 149,421; Dec. 13.
Jewelry and table and table hollow ware. Manufacturing Jewelers Export Company. No. 149,445; Dec. 13.
Lacquer for coloring electric-lamp bulbs. Western Electric Company. No. 149,545; Dec. 13.
Ladders, Folding. Tuckaway Folding Ladder Co. No. 149,526; Dec. 13.
Lard substitutes. H. R. Eliah. No. 149,373; Dec. 13.
Lathe-heads. Lodge & Shipley Machine Tool Co. No. 149,589; Dec. 13.
Lathes. Fitchburg Machine Works. No. 149,575; Dec. 13.
Lathes, planers, slotters, boring-mills, wheel-lathes, &c. Manning, Maxwell & Moore Inc. No. 149,444; Dec. 13.
Leather. Martin Leather Company. No. 149,449; Dec. 13.
Leather packings. Chas. A. Schieren Company. No. 149,495; Dec. 13.
Lenses, Non-breakable lamp-. Insel Company No. 149,412; Dec. 13.
Lock-nuts. Patterson Lock Nut Mfg. Co. No. 149,470; Dec. 13.
Lumber, shingles, laths. Brandmeir-Rounds Lumber Co. Nos. 149,350–1; Dec. 13.
Lunch-boxes. Hot Lunch Box Company. No. 149,582; Dec. 13.
Machinery and tools. Stewart-Skinner Company. No. 149,511; Dec. 13.
Machinery and tools, Certain. Chicago Pneumatic Tool Company. No. 149,358; Dec. 13.
Manicuring preparations, powders, &c., Containers for. A. Moeller. No. 149,457; Dec. 13.
Marble. Alamoro Marble Company. No. 149,334; Dec. 13.
Matches, Impregnated. Republic Match Company. No. 149,489; Dec. 13.
Medicinal preparation. Van Vleet-Mansfield Drug Co. No. 149,538; Dec. 13.
Metal-working tools. National Tool Company. No. 149,508; Dec. 13.
Metal-working milling tools and hobs. Goddard Tool Company. No. 149,578; Dec. 13.
Milking-machines and milking-machine systems and parts thereof. Empire Cream Separator Company. No. 149,375; Dec. 13.
Mill - baskets, oil - cabinets, tool - chests, hose - reels, &c. Fairbanks Co. No. 149,380; Dec. 13.
Mineral waters. J. Hall. No. 149,399; Dec. 13.
Moss, Louisiana. Henry Wilhelm Company. No. 149,626; Dec. 13.
Mowers, lawn-mowers, and repair parts therefor. Clipper Lawn Mower Company. No. 149,569; Dec. 13.
Mucilage, pasts, and sealing-wax. Pomeroy Ink Manufacturing Co. No. 149,484; Dec. 13.
Musical instruments and parts thereof, Certain. Albert Houdlett & Sons. No. 149,407; Dec. 13.
Music and music-books, Sheet-. J. Fischer & Bro. No. 149,572; Dec. 13.
Nails, Channel-. G. G. Roberts Corporation. No. 149,611; Dec. 13.
Nail-clippers. H. C. Cook Co. No. 149,571; Dec. 13.
Nipples, Nursing-. E. & S. Nipple Company. No. 149,599; Dec. 13.
Novelties in the form of curios, old prints, &c. Look-See Shop. No. 149,434; Dec. 13.
Oil and black olives, Olive-. Trapli Importing Co. No. 149,523; Dec. 13.
Oil meters and gages, air-gages. Anthony Company. No. 149,564; Dec. 13.
Oil, Polishing. Texas Company, The. No. 149,521; Dec. 13.
Oils, Motor-lubricating. Jewett & Sowers Oil Co. No. 149,420; Dec. 13.
Packing, Sheet-. Babbitt Steam Specialty Co. No. 149,341; Dec. 13.
Painters' materials. John Dunn, Son & Co. No. 149,370; Dec. 13.
Paint enamel. McDougall-Butler Co. No. 149,440; Dec. 13.
Paints and varnishes. Asahel Wheeler Company. No. 149,547; Dec. 13.
Paints, enamels, varnishes, and furniture-polish. National Paint Syndicate, Inc. No. 149,461; Dec. 13.
Paints, Ready-mixed. Phoenix Paint & Varnish Company. No. 149,482; Dec. 13.
Paints, varnishes, paint enamels, wood-stains, and fillers. C. Albert Kuehnle Co. No. 149,423; Dec. 13.
Paper bags. Blake, McFall Company. No. 149,345; Dec. 13.
Paper bags. Crown Willamette Paper Company. Nos. 149,366–7; Dec. 13.
Paper drinking-cups. United States Envelope Company. No. 149,531; Dec. 13.
Paper, Ledger, writing and bond. Neenah Paper Company. No. 149,462; Dec. 13.
Paprika, Spanish. V. Rodrigues. Nos. 149,491; Dec. 13.
Pearls, precious, semiprecious, and imitation jewels, Artificial. Lassner & Bamberger Inc. No. 149,586; Dec. 13.
Pies. Mrs. Allen's Kitchens. No. 149,422; Dec. 13.
Pigments and colors, putty, &c., Certain. Cooper & Cooper. No. 149,364; Dec. 13.
Piston and packing rings. Mohawk Piston Ring Corporation. No. 149,468; Dec. 13.
Plant food tablet form. Stim-U-Plant Tablet Co. No. 149,512; Dec. 13.
Plumbing supplies. Whiting-Mead Commercial Co. No. 149,545; Dec. 13.
Polishing-buffs. H. Paulson. No. 149,472; Dec. 13.
Potatoes, Fresh. Norfolk Truckers Exchange. No. 149,464; Dec. 13.
Preparation for certain purposes. Preston Chemical Co. No. 149,605; Dec. 13.
Preparation for use when dissolved in water in washing and cleaning. United Soap Products Co. No. 149,580; Dec. 13.
Preparations for the hair. Madam M. G. Clarke. No. 149,568; Dec. 13.
Prime summer yellow refined deodorized cotton-seed oil. International Vegetable Oil Company. No. 149,414; Dec. 13.
Prime summer white refined deodorized cotton-seed oil. International Vegetable Oil Company. No. 149,415; Dec. 13.
Pumps, drag-saws, &c. Mill and Mine Supply Co. No. 149,454; Dec. 13.
Pumps, paint and water spraying devices, blowers, air compressors. Anthony Company. No. 149,562; Dec. 13.
Putties, Bituminous. Standard Asphalt & Refining Company. No. 149,509; Dec. 13.
Puzzles. W. L. Ferris. No. 149,381; Dec. 13.
Pyrometers and certain indicating and recording instruments. Uehling Instrument Co. No. 149,529; Dec. 13.
Ranges, Gas and coal. Mascot Stove Manufacturing Co. No. 149,450; Dec. 13.
Razors. Wester Bros. No. 149,546; Dec. 13.
Rope, Lariat-. Portland Cordage Co. No. 149,485; Dec. 13.
Rope made of aluminium. Aluminium-Walzwerke A.-G. No. 149,335; Dec. 13.
Rubber bands. American Lead Pencil Company. No. 149,339; Dec. 13.
Rubber belting and hose. New Jersey Car Spring & Rubber Co. No. 149,463; Dec. 13.
Rubber patches. Eagle Tire Patch Co. No. 149,371; Dec. 13.
Rugs, blankets, couch and bed covers, &c., Certain. F. C. Huyck & Sons. No. 149,409; Dec. 13.
Saws and machine-knives. T. F. Shurly Co. No. 149,613; Dec. 13.
Scissors. H. Wolff & Co. No. 149,554; Dec. 13.
Seeds, Lawn-grass. J. O. Johnson. No. 149,584; Dec. 13.
Separators, Centrifugal. Empire Cream Separator Company. No. 149,374; Dec. 13.
Shampoo and hair tonic. H. H. Mather. No. 149,594; Dec. 13.
Shores, Adjustable. H. W. Roos. No. 149,493; Dec. 13.
Showcases. M. L. Himmel & Son. No. 149,405; Dec. 13.
Shuttles, shuttle-pegs, picking band-pegs, creel-pegs, &c. Maatschappij Azo. No. 149,442; Dec. 13.
Silk and silk manufactures, Machinery used in preparation and treatment of. Scranton Silk Machine Company. No. 149,499; Dec. 13.
Skins, Brown-dyed rabbit-. J. Laskin & Sons. No. 149,428; Dec. 13.

Solder. Great Western Smelting & Refining Company. No. 149,396; Dec. 13.
Sound-reproducing machines, Needles for. A. B. Clinton Company. No. 149,361; Dec. 13.
Spaghetti, macaroni, &c. Gandolfo-Ghio Mfg. Co. No. 149,384; Dec. 13.
Spark-plugs. Lightning Spark Plug Company. No. 149,433; Dec. 13.
Steel. Firth-Sterling Steel Company. No. 149,424; Dec. 13.
Steel products, Certain, upwrought and partly-wrought. Hadfields Limited. No. 149,398; Dec. 13.
Steel sheets, &c., Rolled-. Hydraulic Steel Company. Nos. 149,410–11; Dec. 13.
Stoves, Coal and wood. Estate Stove Company. No. 149,378; Dec. 13.
Strapping for bails, wooden boxes, &c., and metallic fastening-seals for said strapping, Metal. Signode System, Inc. No. 149,504; Dec. 13.
Sweeping compound. Great Atlantic & Pacific Tea Company. No. 149,580; Dec. 13.
Tables, chairs, and stools. Bessire & Company. No. 149,344; Dec. 13.
Tablet, Laxative. O. S. Lyttleton. No. 149,437; Dec. 13.
Talking-machines. D. H. Leach. No. 149,587; Dec. 13.
Talking-machines and phonographs. Sonora, Inc. No. 149,614; Dec. 13.
Talking-machines, phonographs, and certain phonograph parts and accessories. General Phonograph Corporation. No. 149,577; Dec. 13.
Targets and traps. Western Cartridge Company. Nos. 149,543–4; Dec. 13.
Telephone-mouthpieces. F. A. Watkins. No. 149,623; Dec. 13.
Tin, copper, &c., Certain named. Nichthauser & Levy. No. 149,600; Dec. 13.
Tire-repair outfits. Dunlop Rubber Company, No. 149,360; Dec. 13.
Tires and tubes of rubber, Automobile. Howe Rubber Corporation. No. 149,553; Dec. 13.
Tires, Automobile-. Sam Bretch Wholesale Specialties. No. 149,495; Dec. 13.
Tires, Reliners for rubber or leather. A. Finkelsieper. No. 149,574; Dec. 13.
Tires, Rubber inner tubes for automobile-. Sam Bretch Wholesale Specialties. No. 149,496; Dec. 13.
Toe and heel protectors. L & W Toe and Heel Savers. No. 149,436; Dec. 13.
Tools and machinery, Pneumatic. Chicago Pneumatic Tool Company. No. 149,357; Dec. 13.
Tools for cutting the covers of sheet-metal cans and boxes. Openright Specialty Company. No. 149,466; Dec. 13.
Toy chemicals sets. American Drug and Chemical Co. No. 149,338; Dec. 13.
Toys. Irokese Trading Corporation. Nos. 149,416–8; Dec. 13.
Toy wooden horses mounted on wheels. Toytown Manufacturing Company. No. 149,625; Dec. 13.
Tractors. E. B. Cassatt Company. No. 149,355; Dec. 13.
Trucks adapted to be attached to motor-cars. Graham Brothers. No. 149,579; Dec. 13.
Trusses. L. A. Smith. No. 149,507; Dec. 13.
Turpentine substitute. Atlantic Refining Company. No. 149,340; Dec. 13.
Tuskeloid Company, Inc., New York, N. Y. Hand and wall mirrors and picture-frames. Nos. 149,527–8; Dec. 13.
Typograph mechanism, line-casting and other machines and appliances, and parts thereof. Ludlow Typograph Company. No. 149,590; Dec. 13.
Typewriter-ribbons and carbon-paper. Columbia Ribbon & Mfg. Co. No. 149,570; Dec. 13.
Twines. J. E. Barbour Company. No. 149,342; Dec. 13.
Valves and liquid-strainers, Check and tire. Anthony Company. No. 149,563; Dec. 13.
Vanilla extract, Imitation-. Horine & Bowey Company. No. 149,406; Dec. 13.
Vaporising apparatus. Charles Alfred Waldeck Company Inc., The. No. 149,539; Dec. 13.
Varnish. Empire Varnish Company. No. 149,376; Dec. 13.
Varnish. McDougall-Butler Co. Nos. 149,438–9; Dec. 13.
Veils, veilings, and nettings in the piece. Gottschalk Steinberg & Co. No. 149,391; Dec. 13.
Vulcanising plants, Stationary. Scheffer & Rossum Co. No. 149,497; Dec. 13.
Wall-board. Western Wallboard Co. No. 149,624; Dec. 13.
Washing-powder. J. E. Brown. No. 149,353; Dec. 13.
Washing-powder, laundry soap, and soap chips. Swift and Company. No. 149,514; Dec. 13.
Welding, cutting, and removing torches, tips, and parts thereof. "Weldrite" Company Incorporated. No. 149,542; Dec. 13.
Wicks, Woven. National Enameling & Stamping Co. No. 149,507; Dec. 13.
Wire articles. Morgan Spring Company. No. 149,459; Dec. 13.
Wire working and other machines. Sleeper & Hartley. No. 149,508; Dec. 13.
Woolen piece goods. D. M. Oberman Manufacturing Company. No. 149,001; Dec. 13.
Worsted trimming for use in art-needlework. Lorimer, Greenbaum Co. No. 149,435; Dec. 13.
Yarns. Dixie Mercerizing Company. No. 149,368; Dec. 13.
Yarns and threads. Cherokee Spinning Company. No. 149,356; Dec. 13.

ALPHABETICAL LIST OF LABELS.

"B. V. May." (For Hosiery.) May Hosiery Mills. No. 23,742; Dec. 13.
"Briarcliff Milk Chocolates." (For Candies.) Loft, Inc. No. 23,740; Dec. 13.
"Brilline for Dressing the Hair." (For Liquid Hair-Dressers.) Imperial Perfume Co. No. 23,736; Dec. 13.
"Broad Climax Egg Noodles." (For Noodles.) Pfaffmann Egg Noodle Co. No. 23,755; Dec. 13.
"Broad Star Noodles." (For Noodles.) Pfaffmann Egg Noodle Co. No. 23,756; Dec. 13.
"Burd Quick Seating Piston Rings." (For Piston-Rings.) Burd High Compression Ring Company. No. 23,723; Dec. 13.
"Candy Craft Bubble Box." (For Boxes for Candy Craft Bubble Box.) Candy Craft Shops. No. 23,725; Dec. 13.
"Canyon." (For Toilet-Paper.) C. R. White. No. 23,784; Dec. 13.
"Coast to Coast." (For Toilet Paper.) C. R. White. No. 23,783; Dec. 13.
"Cream-On." (For Powdered Milk.) International Dry Milk Co. No. 23,738; Dec. 13.
"Crowell's Wicco." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,745; Dec. 13.
"Cup and Saucer." (For Coffee.) Johnson-Earl Meyers Co. No. 23,739; Dec. 13.
"Delta." (For Toilet-Paper.) C. R. White. No. 23,786; Dec. 13.
"Dolfinger's." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,744; Dec. 13.
"Dreamy Dawn." (For Candy.) Val. Blatz Jr. Candy Co. No. 23,721 Dec. 13.
"Equator." (For Toilet-Paper.) C. R. White. No. 23,785; Dec. 13.
"Fine Climax Egg Noodles." (For Noodles.) Pfaffmann Egg Noodle Co. No. 23,754; Dec. 13.
"Fine Star Noodles." (For Noodles.) Pfaffmann Egg Noodle Co. No. 23,757; Dec. 13.
"Foothill Brand Honey." (For Honey.) J. Ferguson. No. 23,729; Dec. 13.
"Frap-O." (For Syrup of Wild-Cherry Flavor.) Brecht & Richter Company. No. 23,722; Dec. 13.
"Gainsborough Genuine Hair Net." (For Hair-Nets.) Western Bottle Manufacturing Company. No. 23,774; Dec. 13.
"Geyer's Detachable Swinging Wash-Boiler Apron." (For Detachable Swing Washboiler - Apron.) E. Geyer. No. 23,732; Dec. 13.
"Gold Band." (For Toilet-Paper.) C. R. White. No. 23,782; Dec. 13.
"Golden Crust Loaf." (For Bread.) California Bakery Company. No. 23,724; Dec. 13.
"Heathmade Arrow Brand Butter." (For Butter.) Mott & Wood Co. No. 23,752; Dec. 13.
"Hollandyke." (For Candy-Boxes.) C. J. Fox Company. No. 23,730; Dec. 13.
"Hyzio Hair Net." (For Hair-Nets.) Graf Bros. No. 23,734; Dec. 13.
"Klip." (For Cigars.) C. H. Solliday. No. 23,768; Dec. 13.
"Kremola." (For Skin-Cream.) Dr. C. H. Berry Company. No. 23,720; Dec. 13.
"Lady Prim." (For Hair-Nets.) Chas. Rubens & Co. No. 23,762; Dec. 13.
"Lak-Side Brand Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,743; Dec. 13.
"Le Chapeau Chic." (For Ladies' and Children's Hats.) Gould Millinery Co. No. 23,733; Dec. 13.
"Malt and Hops." (For Syrup.) Croker Packing Co. No. 23,727; Dec. 13.
"Marcella." (For Canned Peas.) Inderrieden Canning Co. No. 23,737; Dec. 13.
"Marvello Washing Powder." (For Cartons Containing the Washing-Powder.) Mrs. E. Sloan. No. 23,767; Dec. 13.
"Missouri." (For Overalls.) G. D. Milligan Grocer Co. No. 23,748; Dec. 13.
"Mussolino." (For Cigars.) Cole Lithographing & Printing Co. No. 23,726; Dec. 13.
"No-Bed Bug." (For Containers for a Bedbug-Exterminator. Triangle Chemical Co. No. 23,771; Dec. 13.
"No-Insect." (For Containers for an Insect-Exterminator.) Triangle Chemical Co. No. 23,773; Dec. 13.

"No Rat." (For Containers for a Rat-Exterminator.) Triangle Chemical Co. No. 23,770; Dec. 13.
"No Roach." (For Containers for a Roach-Exterminator.) Triangle Chemical Co. No. 23,772; Dec. 13.
"Northrup, King & Co.'s Special Scratch Feed." (For Bags of Poultry Feed.) Northrup, King & Co. No. 23,753; Dec. 13.
"Old Mexican Cactus Candy." (For Boxes Containing Candy.) Milwaukee Paper Box Company. No. 23,749; Dec. 13.
"Pearl Oil." (For Five-Gallon Cans Containing Illuminating and Heating Oils and on the Cases in Which the Said Cans are Packed.) Standard Oil Company. No. 23,769; Dec. 13.
"Peconut Crisp." (For a Nut Confection in the Form of Candy.) Westmoreland Candy Company. No. 23,779; Dec. 13.
"Peter Rabbit's Race Game." (For Cover of Box Containing the Game.) Frederick Warne & Co. No. 23,777; Dec. 13.
"Prune-Lax." (For Laxatives.) M. Morvillo. No. 23,751; Dec. 13.
"Pure Fresh Grated Horse Radish." (For Bottles or Jars of Horse-Radish.) Sittler Brothers. No. 23,766; Dec. 13.
"Real Silk Fashioned Hosiery." (For Containers for Hosiery.) Real Silk Hosiery Mills. Nos. 23,759–60; Dec. 13.
"Real Silk Hose." (For Containers for Hose.) Real Silk Hosiery Mills. No. 23,761; Dec. 13.
"Red-D-Cut Macaroni." (For Macaroni.) Pfaffmann Egg Noodle Co. No. 23,758; Dec. 13.
"Sally." (For Cigars.) G. L. Schuls. No. 23,765; Dec. 13.
"Silverine." (For Toilet-Paper.) C. R. White. No. 23,780; Dec. 13.
"Spark-C." (For Electrical Apparatus, Machinery, and Supplies, Particularly Potential Detectors.) Westinghouse Lamp Company. No. 23,778; Dec. 13.
"State Highway." (For Cigar-Boxes for Cigars.) K. Andersen. No. 23,719; Dec. 13.
"Taggart's Wonder Bread." (For Bread.) Taggart Baking Company. No. 23,775; Dec. 13.
"Tailored-Ready Art Clothes." (For Clothing.) Sanders and Weinstein. No. 23,764; Dec. 13.
"The Cream Supreme." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,746; Dec. 13.
"The Famous Agouroladon." (For Olive-Oil.) Moreas Importing & Exporting Co. No. 23,750; Dec. 13.
"The Noble Lady." (For Hair-Nets.) Samstag & Hilder Bros. No. 23,763; Dec. 13.
"Tip Top." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,747; Dec. 13.
"Tomato Paste." (For Tomato Paste.) Latorraca Bros. No. 23,741; Dec. 13.
"Ward's Pound Cake." (For Cake.) Ward Baking Company. No. 23,776; Dec. 13.
"White Banner." (For Hops.) Decatur Brewing Company. No. 23,728; Dec. 13.
"Whitewings." (For Candy-Boxes.) C. J. Fox Company. No. 23,731; Dec. 13.
"With All Good Wishes." (For Hosiery.) Holeproof Hosiery Co. No. 23,735; Dec. 13.
"World Wide." (For Toilet-Paper.) C. R. White. No. 23,781; Dec. 13.

ALPHABETICAL LIST OF PRINTS.

"'Amoreco' is King of All Motor Gasolines." (For Advertising Purposes for Gasolene.) J. P. Powers. Nos. 5,872–3; Dec. 13.
"Anticipation." (For Advertising Purposes for Gas-Heaters.) The J. H. Grayson Manufacturing Co. No. 5,860; Dec. 13.
"Blue Brand Velvet Pencil." (For Advertising Purposes for Lead-Pencils.) American Lead Pencil Company. No. 5,845; Dec. 13.
"Dickinson Snow Ball Pop Corn." (For Advertising Purposes for Dickinson's Popcorn.) The Albert Dickinson Company. No. 5,853; Dec. 13.
"Dickinson's Santa Claus Pop Corn." (For Advertising Purposes for Dickinson's Popcorn.) The Albert Dickinson Company. No. 5,854; Dec. 13.
"Expectation." (For Advertising Purposes for Gas-Heaters.) The J. H. Grayson Manufacturing Co. No. 5,861; Dec. 13.
"Goodyear's Tonsil Instrument." (For Advertising Purposes for Removal of Tonsils.) Max Wocher & Son Co. No. 5,877; Dec. 13.
"Ink-Eau Indelible Duplicating Pencil." (For Advertising Purposes for Lead-Pencils.) American Lead Pencil Company. No. 5,850; Dec. 13.
"Its Flavor Means Pleasure Its Purity Means Health." (For Advertising Purposes for Ice-Cream.) Peerless Ice Cream Co. No. 5,871; Dec. 13.
"Kant-Rust." (For Advertising Purposes for Rust-Preventing and Renewing Composition.) Kant Rust Products Co. No. 5,866; Dec. 13.
"New England School Room Scenes." (For Advertising Purposes for Jell-O.) Genesee Pure Food Company. No. 5,855; Dec. 13.
"Quality Inn." (For Advertising Purposes for Coffee.) Hills Bros. No. 5,862; Dec. 13.
"Quinby's." (For Advertising Purposes for Chocolates.) California Chocolate Shops, Inc. No. 5,852; Dec. 13.
"Realization." (For Advertising Purposes for Gas-Heaters.) The J. H. Grayson Manufacturing Co. No. 5,859; Dec. 13.
"Remington." (For Advertising Purposes for Typewriters.) Remington Typewriter Co. Inc. No. 5,874; Dec. 13.
"Remove All Doubt! Order Partridge Ham and Bacon." (For Advertising Purposes for Ham and Bacon.) H. H. Meyer Packing Company. No. 5,867; Dec. 13.
"Schrader-Universal Valve Caps." (For Advertising Purposes for Valve-Caps.) A. Schrader's Son, Incorporated. No. 5,875; Dec. 13.
"Susanne." (For Advertising Purposes for Flour.) Holland-O'Neal Milling Co. No. 5,865; Dec. 13.
"The Linn Ball Panel." (For Advertising Purposes for Jell-O.) The Genesee Pure Food Company. No. 5,858; Dec. 13.
"The Linn Ball Strawberry Jell-O." (For Advertising Purposes for Jell-O.) The Genesee Pure Food Company. No. 5,856; Dec. 13.
"The Niss Plan." (For Advertising Furniture for Homes.) C. Niss & Sons, Inc. Nos. 5,868–9; Dec. 13.
"The Picture He Carried Away." (For Advertising Purposes for Palmolive Soap.) The Palmolive Company. No. 5,870; Dec. 13.
"The Southern Scene." (For Advertising Purposes for Jell-O.) The Genesee Pure Food Company. No. 5,857; Dec. 13.
"The Winning Cup." (For Advertising Purposes for Coffee.) Hills Bros. No. 5,864; Dec. 13.
"Thoroughbreds." (For Advertising Purposes for Coffee.) Hills Bros. No. 5,863; Dec. 13.
"Venus Copying Pencils." (For Advertising Purposes for Copying-Pencils.) American Lead Pencil Company. No. 5,848; Dec. 13.
"Venus Everpointed Lead Pencils." (For Advertising Purposes for Lead-Pencils.) American Lead Pencil Company. No. 5,851; Dec. 13.
"Venus Pencils C 37." (For Advertising Purposes for Lead-Pencils.) American Lead Pencil Company. No. 5,846; Dec. 13.
"Venus Pencils C 38." (For Advertising Purposes for Lead-Pencils.) American Lead Pencil Company. No. 5,847; Dec. 13.
"Venus Thin Leads." (For Advertising Purposes for Lead-Pencils.) American Lead Pencil Company. No. 5,849; Dec. 13.
"Wilful Destruction." (For Advertising Purposes for Tire-Pressure Gages.) A. Schrader's Son, Incorporated. No. 5,876; Dec. 13.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Ammonium sulfoichthyolate. Standard Oil Company, (Incorporated in New Jersey.) No. 153,528; Dec. 13.
Antiseptics. Merrimac Drug Company, Inc. No. 152,855; Dec. 13.
Apple-butter, butter, bread, canned goods, &c. F. J. Rogers. No. 137,405; Dec. 13.
Asphalt preparation. G. F. Horton. No. 154,191; Dec. 13.
Automobile motor-trucks. Eagle Motor Truck Corporation. No. 153,343; Dec. 13.
Automobiles. Société Anonyme des Anciens Etablissements Secquerille & Hoyau. No. 138,029; Dec. 13.
Bass-lines, Irish linen. B. F. Gladding & Co. No. 154,736; Dec. 13.
Bedspreads. Marshall Field & Company. No. 140,322; Dec. 13.
Bedsteads, couches, &c. K. Farah. No. 137,876; Dec. 13.
Binders, sheets, and posts or thongs therefor, Loose leaf. C. B. Alexander. No. 150,721; Dec. 13.
Blowers, gas, water, and vacuum pumps, Rotary. P. H. & F. M. Roots Co. No. 151,888; Dec. 13.
Blue, Laundry-. Standard Ultramarine Co. No. 132,065; Dec. 13.
Boots and shoes, Leather. F. M. Hoyt Shoe Company. No. 151,457; Dec. 13.
Bottle-caps, Metal. J. F. Lazier Mfg. Co. No. 154,372; Dec. 13.
Boxes, baskets, dishes, knives, forks, &c. Societe Francaise D' Orfevrerie D' Art. No. 125,585; Dec. 13.
Brilliantine, face-powder, face-cream, toilet water, &c. Cheramy, Incorporated. No. 152,064; Dec. 13.
Bumpers, tire holders, &c., Automobile. Central Brass & Fixture Company. No. 151,657; Dec. 13.
Burlap. California Cotton Mills Company. No. 154,177; Dec. 13.
Car, Child's wheeled. United States Steel Toy Company. No. 154,775; Dec. 13.
Carbureting boxes and pots. Quigley Furnace Specialties Co. No. 133,022; Dec. 13.
Casting-lines. B. F. Gladding & Co. No. 154,555; Dec. 13.
Casting-lines, Braided-silk. B. F. Gladding & Co. No. 154,590; Dec. 13.
Casting-lines, Hard-braided. B. F. Gladding & Co. No. 154,734; Dec. 13.
Casting-lines, Minnow. B. F. Gladding & Co. No. 154,692; Dec. 13.
Casting-lines, Waterproof braided. B. F. Gladding & Co. No. 154,740; Dec. 13.
Charts, Prepared business-. G. M. Sachs. No. 151,069; Dec. 13.
Chill tonic and mange remedy. W. G. Griste. No. 149,961; Dec. 13.
Cigarette-papers. Max Spiegel & Sons Co. No. 151,891; Dec. 13.
Coal, Leckie Coal Company. Nos. 149,759–60; Dec. 13.
Composition for preventing and removing boiler-incrustations. L. F. Edwards. No. 153,651; Dec. 13.
Cotton goods in the piece, White and bleached. Hope Company. No. 152,708; Dec. 13.
Cotton piece goods. Boston Manufacturing Company, 1901. Nos. 153,915–17; Dec. 13.
Cotton piece goods. R. A. Suffern. No. 154,333; Dec. 13.
Cotton piece goods, Woven. Neuss, Hesslein & Co. No. 121,908; Dec. 13.
Cream, Face-. E. M. Bozardt. No. 152,531; Dec. 13.
Creams and powders, grease paints and make up, and substitutes therefor, Face. S. E. Brown. No. 150,304; Dec. 13.
Dentifrice in the form of a paste, wash, or powder. Sanosym Incorporated. No. 152,772; Dec. 13.
Deodorant, Powdered. Zeeta Company. No. 152,941; Dec. 13.
Dolls. A. M. Eshleman. No. 154,265; Dec. 13.
Dolls. H. R. Larsen. No. 154,802; Dec. 13.
Dyestuff intermediates. E. I. du Pont de Nemours & Company. No. 149,953; Dec. 13.
Electrical cables and coils, Insulating varnish and material for impregnating and filling. Sherwin-Williams Company. No. 137,051; Dec. 13.
Fabrics, Cotton. Seaboard Textile Co. No. 150,713; Dec. 13.
Fabrics used as foundation material for art-needlework. Bernhard Ulmann Co. No. 150,098; Dec. 13.
Feed for animals and poultry, Mineral. Shores-Mueller Company. No. 151,236; Dec. 13.
Feed, Stock and poultry. Scott County Milling Company. No. 150,294; Dec. 13.
Filters, water and beverage coolers. Allen Filter Company. No. 139,602; Dec. 13.
Fishing-lines, Waterproof braided silk. B. F. Gladding & Co. No. 154,445; Dec. 13.
Fishing-lines, Bait or fly-casting. B. F. Gladding & Co. No. 154,557; Dec. 13.
Fishing-lines, Silk, waterproofed and enameled silk. B. F. Gladding & Co. No. 154,667; Dec. 13.
Fishing-lines, Enameled silk fly-. B. F. Gladding & Co. No. 154,000; Dec. 13.
Flavoring extracts and essential oil for food purposes. Tisco Company. No. 150,491; Dec. 13.
Flooring, Magnesium oxychlorid. Special Service Flooring Corporation. No. 154,938; Dec. 13.
Flour, Wheat-. Barrett Denton & Lynn Co. No. 151,142; Dec. 13.
Flour, Wheat-. Bech Van Sicien & Co. No. 137,913; Dec. 13.
Fowls, Compound for treating cholera in. Y. H. Watts & Co. No. 152,821; Dec. 13.
Fruits, Fresh deciduous. Wenatchee District Co-Operative Association. Nos. 155,204–5; Dec. 13.
Fuse, Non-electrical safety-. Coast Manufacturing & Supply Company. No. 143,980; Dec. 13.
Fuses. Protex Fuse Works. No. 142,580; Dec. 13.
Game, Table. Typo Trading Corporation. No. 154,574; Dec. 13.
Ginghams, cotton piece goods. Ely & Walker Dry Goods Company. No. 153,970; Dec. 13.
Golf-balls. Corona Rubber Manufacturing Co. No. 154,124; Dec. 13.
Hair-growers, hair-pressing oils and perfumes. G. Chastang. No. 152,001; Dec. 13.
Hair-Nets. American Wholesale Corporation (Baltimore Bargain House.) No. 153,171; Dec. 13.
Hair-nets. A. V. Blatt. No. 154,116; Dec. 13.
Hair-nets. Guarantee Hair and Novelty Works. Nos. 153,975–6; Dec. 13.
Hair-nets. Lorraine Mfg. and Importing Company. No. 147,882; Dec. 13.
Hair-nets. National Trading Company. No. 154,062; Dec. 13.
Hair-nets. C. K. Thau. Nos. 154,243–4; Dec. 13.
Hair-nets. Waugh & Co. No. 154,012; Dec. 13.
Hair tonic and restorer. J. L. Hunt. No. 153,549; Dec. 13.
Hair-tonics. Atlanta Barbers' Supply Co. No. 142,195; Dec. 13.
Hair-tonics. O. Peterson. No. 154,284; Dec. 13.
Hair-waving appliances, Electrical. Permanent Wave Machine and Supply Corporation. No. 152,136; Dec. 13.
Hams, shoulders, bacon, lard, &c. John Morrell & Company. Nos. 147,360–1; Dec. 13.
Hog-cholera, Liquid compound for treating. Y. H. Watts & Co. No. 152,822; Dec. 13.
Hydrogen-peroxid solution. Merck and Co. No. 152,376; Dec. 13.
Insecticides. F. P. Symonds. No. 134,551; Dec. 13.
Journal, Farm. J. B. Stern. No. 157,714; Dec. 13.
Lamps and lamp fixtures, Electric. King Manufacturing Company. No. 133,581; Dec. 13.
Lamps (incandescent) and lamp-testers. Associated Lamp Company. No. 151,846; Dec. 13.
Leather, Calf-. Barnet Leather Co. No. 150,993; Dec. 13.
Liniment for neuralgia, rheumatism, &c. J. Laubsch. No. 147,299; Dec. 13.
Lotion. W. S. Charak. No. 152,202; Dec. 13.
Luggage-carriers and commercial luggage-standards. G. A. Roth Manufacturing Co. No. 147,898; Dec. 13.
Medicinal preparation for diabetes. A. C. Douropoulos. No. 152,364; Dec. 13.
Medicinal preparation for intestinal toxemia. International Consolidated Chemical Corporation. Nos. 152,892–3; Dec. 13.
Medicinal preparation for the relief of headache, &c. R. H. Hunstock & Co. No. 152,561; Dec. 13.
Metal preservatives. F. L. Gerke. No. 153,659; Dec. 13.
Mirrors, Rear-view. Wm. R. Johnston Mfg. Co. No. 151,544; Dec. 13.
Muslins, sheets, pillow-cases, Bleached. Cooper, Coate & Casey Dry Goods Co. No. 148,712; Dec. 13.
Oil, Lubricating-. Bengol Company. No. 143,532; Dec. 13.
Paint, Flat wall-. Dayton Color Works Company. No. 154,129; Dec. 13.
Paper-clips. G. B. Graff Company. No. 150,444; Dec. 13.
Paper towels, napkins, and tablecloths. J. Sofge. No. 150,976; Dec. 13.
Pearls. R. Harris & Co. No. 148,068; Dec. 13.
Pearls. Maybaum Bros., Inc. No. 153,096; Dec. 13.
Pearls, Artificial or imitation. Janovici & Co., Inc. No. 153,811; Dec. 13.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Pencils and pocket-lighters, Combination pocket-. Art-Metal Works. No. 153,979; Dec. 13.
Pencils, Lead-. General Manufacturing Company. No. 151,310; Dec. 13.
Pens and lead-pencils, Fountain-. Jordan Marsh Company. No. 151,093; Dec. 13.
Perfume extracts and toilet waters. E. L. Mittelstaedt. No. 152,087; Dec. 13.
Perfumes. R. Fyben. No. 152,245; Dec. 13.
Perfumery, face-creams, toilet waters. Atlanta Barbers' Supply Co. No. 141,937; Dec. 13.
Pianos and player-pianos. Overbrook Piano Company. No. 149,597; Dec. 13.
Powder for destroying beetles and cockroaches. H. Cook. No. 152,700; Dec. 13.
Powder or liquid, Tooth. C. M. McArthur. No. 145,697; Dec. 13.
Preparations for treatment of blood-poisoning, boils, &c. J. H. Nickodemus. No. 151,842; Dec. 13.
Projectiles, heavy ordnance, &c. Hadfields, Limited. No. 136,257; Dec. 13.
Publication, Monthly. E. Lundeen. No. 135,007; Dec. 13.
Radiator-caps. F. Wolkow & Sons. No. 148,467; Dec. 13.
Rat-poison. W. M. Coffey. No. 139,251; Dec. 13.
Rattles, human and animal figure toys, &c. C. V. Pobl-son. No. 151,846; Dec. 13.
Reel-lines, Linen. B. F. Gladding & Co. No. 154,737; Dec. 13.
Remedies, Corn. J. J. Klavon. No. 148,803; Dec. 13.
Remedy and a preparation for the relief of neuralgia, &c., Headache. C. Byrd. No. 151,572; Dec. 13.
Rhubarb laxative medicinal preparation. I. S. Robins. No. 149,069; Dec. 13.
Ribbons in the piece. Corbett Bros. Co. No. 150,848; Dec. 13.
Ribbons in the piece. Corbett Brothers Co. No. 152,883; Rings and mountings therefor, Finger-. Gross, Zoldo & Ronay. No. 149,637; Dec. 13.
Rings, pendants, brooch-pins, &c., Finger-. H. G. Esayan. No. 149,276; Dec. 13.
Salt. Retsof Mining Company. No. 138,653; Dec. 13.
Salve. J. Canales. No. 151,966; Dec. 13.
Salves for wounds, sores, &c. Kal-Kal Laboratories Inc. No. 150,275; Dec. 13.
Sealing-tape. Standard Paper Company. No. 148,856; Dec. 13.
Shampoo preparation. Martyn Soap Company. No. 150,280; Dec. 13.
Sheetings, drills, jeans, &c., bleached sheetings, drills, &c., Gray. Maguire & Co. Inc. No. 153,362; Dec. 13.
Shoes. Bluff City Shoe Company. No. 150,728; Dec. 13.
Shoes. Bluff City Shoe Co. No. 150,799; Dec. 13.
Silk piece goods. H. R. Mallinson & Co. No. 154,151; Dec. 13.
Silk, wool, and cotton, Piece goods of. Bianchini, Férier. Nos. 154,477–8; Dec. 13.
Soap. L. A. Douglass. No. 137,605; Dec. 13.
Soap. C. R. Meyer. No. 153,182; Dec. 13.
Sound-amplifying devices, telephone &c., Electrical. Magnavox Co. No. 150,476; Dec. 13.
Spark-plugs. (U. S. Property No. 149,323; Dec. 13.
Spray compositions, Concentrated. Hood River Spray Company. No. 152,728; Dec. 13.
Stool, Horse-powdering powders for. E. F. Houghton & Co. No. 151,947; Dec. 13.
Swimming Eye-trawing Company. No. 154,634; Dec. 13.
Tablets, Bath-. Triumph Mfg. Co. No. 153,473; Dec. 13.
Tablets, Blood-tonic. John Novak Company. No. 151,807; Dec. 13.
Tires, retinners, hose, &c., Vehicle-. Federal Rubber Company. No. 146,901; Dec. 13.
Tonic and blood purifier, General. Mrs. W. H. Reynolds. No. 150,870; Dec. 13.
Tonics and regulatives, Poultry. Penna Poultry Farm Remedies Co. No. 151,849; Dec. 13.
Towels, toweling, washcloths, &c. California Cotton Mills Company. No. 150,660; Dec. 13.
Toy tea and cooking sets. Geo. H. Bowman Company. No. 154,476; Dec. 13.
Tractors, reapers, binders, &c. A/S. Landbrugsmaskin-Kompagniet (The Agricultural-Machinery Co.) No. 125,073; Dec. 13.
Truck-bodies. Texas Wagon Works, Inc. No. 154,071; Dec. 13.
Typewriter-operating machines, &c. Hoover Automatic Typewriter Corporation. No. 146,762; Dec. 13.
Vacuum-tubes. General Electric Company. No. 152,325; Dec. 13.
Vehicle springs, shock-absorbers, and recoil-checks. Steel Wings Company. No. 153,318; Dec. 13.
Vehicles, Commercial motor-. John I. Thornycroft & Co. No. 150,948; Dec. 13.
Ventilators, drying apparatus for paste goods, &c. Gebrüder Bühler. No. 151,821; Dec. 13.
Waterproof fabric. Archer Strauss Rubber Company. No. 153,775; Dec. 13.
Waterproofing compound for use in connection with stone, &c. Morene Products Co. Nos. 152,081–2; Dec. 13.
Waterproofing compound for stone, brick, &c. Morene Products Co. No. 152,377; Dec. 13.
Welting. Chicago Belting Company. No. 151,146; Dec. 13.
Windshield-visors. A. G. F. Kurowski. No. 151,009½; Dec. 13.
Windshields for motor-vehicles. Simplex Windshield Wing Co. No. 146,665; Dec. 13.
Woolen piece goods. Forstmann & Huffmann Company. Nos. 154,183–8; Dec. 13.
Woolen piece goods. J. P. McKnight. No. 153,739; Dec. 13.
Worsted goods. Mayflower Worsted Company. No. 154,231; Dec. 13.
Writing-cases. Hauser & Weil. No. 152,424; Dec. 13.
Yarns, Cotton. Rankin Mills Inc. No. 127,183; Dec. 13.
Yeast, Extract of. Merck and Co. No. 152,340; Dec. 13.

CLASSIFICATION OF PATENTS

ISSUED DECEMBER 13, 1921.

NOTE.—First number—class, second number—subclass, third number—patent number.

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193: 1,400,436
255— 94: 1,400,133
71: 1,399,[illegible]
73: 1,399,[illegible]
256— 13: 1,399,819
257— 10: 1,400,179
24: 1,399,736
130: 1,399,767
200: 1,400,347
241: 1,400,267
732: 1,400,154
258— 17: 1,400,114
259— 109: 1,400,216
113: 1,400,309
194: 1,399,740
263— 5: 1,399,980
6: 1,400,367
15: 1,400,454
40: 1,400,335
264— 13: 1,400,198
265— 48: 1,400,469
267— 9: 1,399,795
17: 1,400,372
56: 1,400,253
268— 9: 1,399,738
274— 1: 1,399,917
274— 26: 1,399,923
42: 1,399,737
277— 18: 1,400,424
31: 1,400,172
279— 16: 1,400,[illegible]
73: 1,400,158
122: 1,400,272
1,400,306
280— 5: 1,400,345
33.1: 1,400,[illegible]
80: 1,400,349
116.5: 1,400,045
158: 1,400,010
281— 11: 1,400,029
283— 37: 1,400,776
285— 109: 1,400,465
287— 52: 1,400,014
290— 1: 1,399,[illegible]
44: 1,400,040
292— 40: 1,400,483
76: 1,400,482
278: 1,400,315
340: 1,399,807
293— 17: 1,400,[illegible]
35: 1,400,[illegible]
294— 47: 1,400,346
295— 45: 1,399,873
53: 1,399,842
84: 1,400,479
100: 1,400,271
143: 1,400,[illegible]
297— 18: 1,400,[illegible]
298— 23: 1,400,369
299— 150: 1,399,[illegible]
301— 22: 1,399,[illegible]
51: 1,400,[illegible]
60: 1,400,173
84: 1,400,112
158: 1,400,[illegible]
305— 4: 1,400,318
5: 1,400,434
10: 1,400,100

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ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 20TH DAY OF DECEMBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abbott, Harry T., Mays Landing, N. J., assignor to Draper Corporation, Hopedale Mass. Selvage-trimmer for looms. No. 1,400,711; Dec. 20.

Abbott, William H. (See Bliss, Talmadge, assignor.)

Abel, Morris. (See Polsoroff, Morris, assignor.)

Abernathy, Albert J., Seattle, Wash. Plate-puller. No. 1,400,758; Dec. 20.

Abram, Richard, Riverside, Ill. Air-regulating device for internal-combustion engines. No. 1,400,506; Dec. 20.

Adachi, Kaijiro. (See Nakayama, M. and Adachi.)

Adam, Matthew A. (See Legg, David A., assignor.)

Adams, Charles N., Downers Grove, assignor of one-half to J. Biworchinsky, Chicago, Ill. Lock for motor-driven vehicles. No. 1,400,507; Dec. 20.

Adler, Emanuel B. and J., Pittsburgh, Pa. Washing-machine. No. 1,401,026; Dec. 20.

Adler, Jerome. (See Adler, Emanuel B. and J.)

Adler, Louis M., New Orleans, La. Piano-bench. No. 1,401,027; Dec. 20.

Ahlers, Louis. (See Schmidt, J. H., and Ahlers.)

Ahlm, Charles E. F., and T. F. Ferry, Cleveland, Ohio. Heating apparatus for metalworking machines. No. 1,400,446; Dec. 20.

Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Protective device for fluid-pressure brakes. No. 1,400,651; Dec. 20.

Akemann, Walther, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fire control apparatus particularly intended for naval guns. No. 1,401,025; Dec. 20.

Akin, Gaylord W. (See Sweby, K. A., and Akin.)

Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. System of radio communication. No. 1,400,547; Dec. 20.

American Arch Company. (See Willett, Alfred H., assignor.)

American Can Company. (See Thornburgh, Ivan D., assignor.)

American Electrical Heater Company. (See Kuhn, F., Hand, and Spiess, assignors.)

American Hard Rubber Co. (See Scheihammer, Herman, assignor.)

American Laundry Machinery Company, The. (See Warsaw, Charles E., assignor.)

American Piano Company. (See Edmands, Bradford C., assignor.)

American Steam Conveyor Corporation. (See Nolan, Clyde, assignor.)

American Telephone and Telegraph Company. (See Demarest, C. S., and Davidson, assignors.)

American Telephone and Telegraph Company. (See Smith, Temple C., assignor.)

American Telephone and Telegraph Company. (See Toomey, John P., assignor.)

Ammann-Haberstich, Ernst, Basel, Switzerland. Machine for drying strips. No. 1,400,508; Dec. 20.

Anderson, Anders O., Stoneham, Mass. Bunch-holding device for hose-supporters. No. 1,401,099; Dec. 20.

Anderson, James C., Rutherford, N. J., assignor to Variey Duplex Magnet Company. Circuit breaker and controller. No. 1,400,929; Dec. 20.

Anderson, Raymond T., assignor of one-half to W. W. Smith, Dodge City, Kans. Overtime chart. No. 1,400,865; Dec. 20.

Anderson, Thomas W., Camden Point, Mo., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Pressure gage. No. 1,400,848; Dec. 20.

Anderson, William R. (See Goff, Douglas C., assignor.)

Anthony, Marcus O., New York, N. Y., and G. Lederman, Cleveland, Ohio, said Lederman assignor to said Anthony. Trunk-sully. No. 1,400,509; Dec. 20.

Archer, Charles B., assignor, by mesne assignments, to N. F. McGowin, Chapman, Ala. Soldering-iron. No. 1,400,784; Dec. 20.

Armantrout, Charles W., Grandview, Wash. Agricultural machine for direct attachment to tractors. No. 1,401,029; Dec. 20.

Arn, Fred, assignor to J. M. Card Lumber Co., Chattanooga, Tenn. Chock-block. No. 1,400,786; Dec. 20.

Arn, Fred, assignor to J. M. Card Lumber Co., Chattanooga, Tenn. Chock-block for automobiles. No. 1,400,785; Dec. 20.

Arrow Grip Manufacturing Co. (See Barker, Sydney P., assignor.)

Asekar, Antonio, Brooklyn, N. Y. Lock. No. 1,401,030; Dec. 20.

Asprooth, Axel H., assignor to Cotta Transmission Company, Rockford, Ill. Power-pulley mounting for transmission mechanism. No. 1,400,510; Dec. 20.

Associated Engineering and Supply Company. (See Down, Sidney G., assignor.)

Associated Engineering and Supply Company. (See Stewart, Carlton D., assignor.)

Astley, James F., Camden, N. J. Pipe-wrench. No. 1,400,930; Dec. 20.

Aumann, Frank, Manitowoc, Wis. Spare-tire carrier. No. 1,401,031; Dec. 20.

Austin, Frederick C. (See Bager, Frederic E., assignor.)

Automatic Sliding Trolley Company. (See Moore, Otto, assignor.) (Reissue.)

Autosales Corporation. (See Grover, Albert D., assignor.)

Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Continuous process for the manufacture of esters. No. 1,400,849; Dec. 20.

Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Apparatus for the manufacture of esters. No. 1,400,850; Dec. 20.

Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Apparatus for the production of esters. No. 1,400,851; Dec. 20.

Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Production of esters. No. 1,400,852; Dec. 20.

Baer, Carl J., St. Louis, Mo. Boat. No. 1,400,787; Dec. 20.

Bager, Frederic E., Kenosha, Wis., assignor to F. C. Austin, Chicago, Ill. Trenching-machine. No. 1,400,712; Dec. 20.

Baker, Frank E., and T. J. Biggs, Birmingham, England. Spring mounting for motorcycle front wheels. No. 1,401,032; Dec. 20.

Baker, Linnaeus E., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Deflector for fill-pipes. No. 1,400,511; Dec. 20.

Baker, Raymond D. (See Davis, E. H., and Baker.)

Baldwin Company, The. (See Tower, Herschel E., assignor.)

Barbour, Robert, Paterson, N. J. Forceps. No. 1,400,653; Dec. 20.

Barden, Merritt C., West Pawlet, Vt. Milking apparatus. No. 1,400,512; Dec. 20.

Barker, Sydney P., New York, assignor, by mesne assignments, to Arrow Grip Manufacturing Co., Inc., Glens Falls, N. Y. Roller-base lifting-jack. No. 1,400,931; Dec. 20.

Barley, William B., and J. C. Corbett, assignor to Fearless Dishwasher Company, Inc., Rochester, N. Y. Water-cooler. No. 1,400,713; Dec. 20.

Barnes, John A., West New Brighton, assignor to The Superheater Company, New York, N. Y. Superheater. No. 1,400,853; Dec. 20.

Barr, Arthur, San Rafael, Calif. Dental lip and tongue depressor. No. 1,400,854; Dec. 20.

Barrow, Frederick J. W., Chicago, Ill. Door-hinge. No. 1,400,788; Dec. 20.

Bartholomew, William, assignor to Troy Laundry Machinery Company, Ltd., Chicago, Ill. Extractor. No. 1,400,932; Dec. 20.

Bartlett, Henry B., assignor to B. F. Perkins & Son, Inc., Holyoke, Mass. Weighing-scale. No. 1,400,863; Dec. 20.

Baruday, George M. (See Bowles, Jerre M., assignor.)

Baush Machine Tool Company. (See Oakley, John, assignor.)

Bazzoni, Lewis J., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Buttoning-machine. No. 1,400,714; Dec. 20.

Belcher, Mark, West Columbia, assignor to Hughes Tool Company, Houston, Tex. Breakout-Tongs. No. 1,400,715; Dec. 20.

Benjamin, John M., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Work-positioning device. No. 1,400,716; Dec. 20.

Benner, Raymond C., Fremont, Ohio, assignor to National Carbon Company, Inc. Electric Battery. No. 1,400,513; Dec. 20.

Benson, David, and G. K. Bruce, Des Moines, Iowa. Vehicated automobile-driver's seat. No. 1,400,717; Dec. 20.

Bentz, Hessie M., et al. (See Bents, John A., assignor.)

Bents, John A., assignor of one-half to W. S. Schell and one-half to B. M. Bents, Harrisburg, Pa. Traction ling. No. 1,400,514; Dec. 20.

Berger, Samuel M., Brooklyn, N. Y. Automobile-jack. No. 1,400,954; Dec. 20.

Bergquist, Gust, Portland, Oreg. Clothes-drier. No. 1,400,789; Dec. 20.

Berkeley Light Corporation. (See Wood, William G., assignor.)

Bertsch, Ernest, Brunswig, Belgium. Sign insurance by reflection. No. 1,400,672; Dec. 20.

Bigelow, Harry M., Milwaukee, Wis. Outc-board. No. 1,400,791; Dec. 20.

Bigelow, Harry M., Milwaukee, Wis. Sugar dissolving and washing container. No. 1,400,790; Dec. 20.

Bizzo, Theodore J. (See Bizzo, F. S., and Bizzo.)

Bizzo, Frank S., and Theodore J. Bizzo. Automobile-jack. No. 1,400,515; Dec. 20.

Bingay, Robert V., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Transformer-cover construction. No. 1,400,515; Dec. 20.

Bishman, Alfred L., Syracuse, N. Y. Litter-collector. No. 1,400,526; Dec. 20.

Bitter, Henry, San Francisco, Calif. Convertible chair-bed. No. 1,400,719; Dec. 20.

Blanke, Hans H., near Copenhagen, Denmark. Regulating device for valves and cocks. No. 1,401,202; Dec. 27.

Blackmore, William A., Christchurch, New Zealand. Pulsator for milking-machines. No. 1,401,052; Dec. 20.

Blase, Talmage, Lackawanna, assignor of one-half to W. H. Abbott, Hamburg, N. Y. Mating pellet. No. 1,401,054; Dec. 20.

Blatchford Calf Meal Co. (See Ward, Jerome, assignor.)

Bliss, William L., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical distribution. No. 1,400,840; Dec. 20.

Blondel, André E., Paris, France. Recording apparatus for radiotelegraphic signals. No. 1,400,917; Dec. 20.

Bloom, Charles F., Portland, Oreg. Centrifugal casting-machine. No. 1,400,527; Dec. 20.

Bloom, Leo, Brooklyn, N. Y. Combined gas nursey and heater. No. 1,400,719; Dec. 20.

Bloom, Oral A., Oneida, Kans. Power attachment for Ford cars. No. 1,400,720; Dec. 20.

Boedtcher, Franz A., Bergenfield, N. J. Door-opening device and lock for elevator-doors. No. 1,400,721; Dec. 20.

Bohnert, Otto H., Watertown, Wis. Mitten. No. 1,400,655; Dec. 20.

Bolam, Martin, Sandusky, Ohio. Incubator. No. 1,401,036; Dec. 20.

Bond, Charles, et al. (See Opt, Warren N., assignor.)

Boros, John, Milwaukee, Oreg., assignor to Perfection Tie Company, Portland, Oreg. Bucktle-holder. No. 1,400,858; Dec. 20.

Boston Piano Supply Company. (See Butler, James A., assignor.)

Bouché, William F., Lancaster, N. Y., assignor to Gould Coupler Company, Means for driving dynamos from car-axles. No. 1,400,783; Dec. 20.

Bourgois, Oliver J., Covington, Okla. Well-drilling bit. No. 1,400,794; Dec. 20.

Bovey, Thomas, Chicago, Ill. Automobile-hotter. No. 1,400,518; Dec. 20.

Bowen, David R., and C. F. Schauck, assignor to Farrell Foundry and Machine Company, Ansonia, Conn. Machine for treating rubber and similar material. No. 1,400,834; Dec. 20.

Bowles, Jerre McP., Atlanta, Ga., assignor of one-third to G. M. Baruday, Washington, D. C. Marine propulsion. No. 1,400,936; Dec. 20.

Boyden, George A., Roland Park, Md., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Load-brake device. No. 1,400,930; Dec. 20.

Bradley, Linn, East Orange, N. J. Apparatus for the electrical treatment of gases. No. 1,400,730; Dec. 20.

Bradley, Thomas, Trinidad, assignor of one-half to W. Childs, Starkville, Colo. Burial-case. No. 1,401,047; Dec. 20.

Brady, James H. (See Cosatt, Walter R., assignor.)

Breese, Alfred B., assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio. Ball-seat. No. 1,401,107; Dec. 20.

Brensinger, Julius, Fairfield, Conn., assignor to The Max Ams Machine Company, New York, N. Y. Can-beading machine. No. 1,400,796; Dec. 20.

Brint, Thomas, Langley Mill, England. Physical developer adapted for rowing exercise. No. 1,401,038; Dec. 20.

Brodie, Stuart B., Wilmerding, Pa. Combined oil and gas burner. No. 1,401,057; Dec. 20.

Bromley, John, & Sons. (See Grundy, James A., assignor.)

Brown, Edmund N., and Milton H. Shoenberg, assignors to Majestic Electric Development Company, San Francisco, Calif. Multiple repeater. No. 1,400,808; Dec. 20.

Brown, John B., Wynne, Ark. Conveyer-conduit. No. 1,400,698; Dec. 20.

Brown, Stanley, Garden City, assignor to The Griscom Russell Company, New York, N. Y. High-heat-level evaporator system. No. 1,400,925; Dec. 20.

Brown, Theophilus M., Seattle, Wash. Ventilator. No. 1,400,860; Dec. 20.

Bruce, George E. (See Benson, D., and Bruce.)

Bruce Electrical Engineering Company, Limited. (See Chilton, William, assignor.)

Buchenberg, Alvin E., assignor to Electric Auto-Lite Corporation, Toledo, Ohio. Dynamo-electric machine. No. 1,401,117; Dec. 20.

Buckels, Elmer L., Highwood, Ill. Ticket-holder. No. 1,400,518; Dec. 20.

Budd, Lester, Philadelphia, Pa. Grate. No. 1,401,727; Dec. 28.

Buffalo Dental Manufacturing Company. (See Lewis, Theodore G., assignor.)

Buhrmaster, George H., Minot, N. D. Game apparatus. No. 1,400,620; Dec. 20.

Burl, George R., Monessen, assignor to Pittsburgh Steel Company, Pittsburgh, Pa. Rod-holder. No. 1,400,686; Dec. 20.

Burl, George R., Monessen, assignor to Pittsburgh Steel Company, Pittsburgh, Pa. Bale-tie machine. No. 1,400,687; Dec. 20.

Burman, Elvah O., Grand Rapids, Mich. Paper-roll holder and cutter. No. 1,401,021; Dec. 20.

Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Drain connection. No. 1,400,887; Dec. 20.

Burgess, Leslie, New York, N. Y., assignor to Standard Oil Company. Treating residue resulting from the treatment of hydrocarbons with aluminum chloride. No. 1,401,113; Dec. 20.

Burgoyne, John L., San Francisco, Calif. Incubator. No. 1,400,567; Dec. 20.

Burnham, Frederick S., Wellesley, Mass. Apparatus for washing and sterilizing bottles. No. 1,400,757; Dec. 20.

Burnham, George A., Saugus, assignor to M. H. Condit, Jr., Brooklyn, Mass. Oil dress-pot. No. 1,400,885; Dec. 20.

Burritt, Chauncey D., Crediton, Mich. Reducing-machine. No. 1,401,004; Dec. 20.

Burton, Charles A., Oak Park, Ill. Vacuum fuel-feed device for internal-combustion engines. No. 1,400,727; Dec. 20.

Burton, Ward A., Pittsburgh, Pa. Card-holding clip for typewriters. No. 1,401,062; Dec. 29.

Burwell, Harold F. (See Holloway, J. E., and Burwell.)

Busch, Portland W., Berlin, N. D. Wild-oats separator. No. 1,401,039; Dec. 20.

Butler Bronze Maple Valley, Wis. Container-holder. No. 1,400,794; Dec. 20.

Butler, James A., Needham, assignor to Boston Piano Supply Company, Norwood, Mass. Wire twisting and bending machine. No. 1,400,724; Dec. 20.

Calthrop, Everard R., assignor to E. R. Calthrop's Aerial Patents Limited, London, England. Safety spring-sling particularly adapted for use with parachutes. No. 1,401,040; Dec. 29.

Calthrop's (E. R.) Aerial Patents Limited. (See Calthrop, Everard R., assignor.)

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Ore-car. No. 1,400,876; Dec. 20.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dumping-car. No. 1,400,877; Dec. 20.

Cannon, Bertram C., and W. N. Pierce, assignors to Pierce Arrow Corporation, Buffalo, N. Y. Fuse. No. 1,400,883; Dec. 20.

Cannon, Burrell, Longview, Tex. Cotton harvester. No. 1,400,622; Dec. 20.

Card, J. M., Lumber Co. (See Arn, Fred, assignor.)

Carlson, Axel. (See Swanson, P. and Carlson.)

Carty, Charles S. (See Carty, Sylvester L., assignor.)

Carty, Sylvester L., Youngsville, Me., assignor of one-half to C. R. Carty, Walnut Ridge, Ark. Seed-fastener. No. 1,400,809; Dec. 20.

Charters, Ernest D., assignor to Charters Manufacturing Co., Santa Cruz, Calif. Incubator. (Reissue.) No. 15,247; Dec. 28.

Charters Manufacturing Co. (See Charters, Ernest D., assignor; Hardman.)

Childs, William. (See Bradley, Thomas, assignor.)

Chilton, William, assignor of one-half to The Bruce Electrical Engineering Company, Limited, Loughborough, England. Turbine. No. 1,400,795; Dec. 20.

Chipperfield, Walter, Romford, England. Construction of metal cases for containing drawers, shelves, or the like. No. 1,401,041; Dec. 20.

Christens, Horace, Edgewood Park, assignor to Pittsburgh Meter Company, East Pittsburgh, Pa. Fluid-meter. No. 1,400,543; Dec. 20.

Christensen, Claus P., assignor of one-half to H. P. Vognsen, Petaluma, Calif. Electric driving pump-jack. No. 1,401,042; Dec. 20.

Christensen Machine Co. (See Christensen, Martin, assignor.)

Christensen, Martin, assignor to Christensen Machine Co., Racine, Wis. Signature-feeding mechanism for book-stitching machines. No. 1,400,725; Dec. 20.

Christern, Grevet, assignor to Eureka Spark Plug Corporation, New York, N. Y. Spark-plug. No. 1,400,524; Dec. 20.

Christern, Grover, New York, N. Y. Spark-plug. No. 1,400,525; Dec. 20.

Christian, Herbert W., Detroit, Mich. Electric water-heater. No. 1,400,526; Dec. 20.

Church, Harold G., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,401,043; Dec. 20.

Cincinnati Ball Crank Company, The. (See Breese, Alfred B., assignor.)

Cincinnati Ball Crank Company, The. (See Kaye, Richard A., assignor.)

Cinephone Instruments, Limited. (See Hillman, Albert G., assignor.)

Cinema Patents Company. (See Leitel, Albert, assignor.)

Clark, Francisco, Durango City, Mexico. Combination-lock. No. 1,401,044; Dec. 20.

Clarke, Clem S., Shreveport, La. Casing-head. No. 1,400,946; Dec. 20.

Clement, Alvah W., East Cleveland, assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio. Alloy. No. 1,400,527; Dec. 20.

Clendaniel, William L., Philadelphia, Pa., assignor of one-half to B. Kelly-Walker, Wildwood, N. J. Tire. No. 1,401,045; Dec. 20.

Cleveland Brass Manufacturing Company, The. (See Clement, Alvah W., assignor.)

Clymer, Albert A., Gowrie, Iowa. Tool for handling tiles. No. 1,401,046; Dec. 20.

Coady, Matthew D., Auburn, assignor to J. N. Henry, Providence, R. I. Curtain-rod bracket. No. 1,400,726; Dec. 20.

Coast, John W., Jr., assignor to The Process Company, Tulsa, Okla. Cracking hydrocarbons. No. 1,400,800; Dec. 20.

Codd, Ambrose W., Spokane, Wash. Detachable reserve-supply tank. No. 1,400,727; Dec. 20.

Cohen, Benjamin P., Augusta, Ga. Pneumatic and hydraulic clamp. No. 1,400,801; Dec. 20.

Cole, Robert C., assignor to The Johns-Pratt Company, Hartford, Conn. Renewable fuse. No. 1,400,660; Dec. 20.

Cole, Robert C., assignor to The Johns-Pratt Company, Hartford, Conn. Inclosed fuse. No. 1,400,661; Dec. 20.

Colgate, William A., Garden City, N. Y. Truck-supported knockdown circle swing. No. 1,400,802; Dec. 20.

Collins, Charles H., West Albany, assignor to S. Sanford & Sons, Inc., Amsterdam, N. Y. Loom for weaving axminster carpets and rugs. No. 1,400,941; Dec. 20.

Collver, William A., Marshfield, Oreg. Steam-escape valve for range-boilers, &c. No. 1,401,048; Dec. 20.

Condit, Sears B., Jr. (See Burnham, George A., assignor.)

Cone Rag Company, The. (See Goodell, William, assignor.)

Conklin, Oliver F., Detroit, Mich., assignor to Remy Electric Company, Anderson, Ind. Regulating device for dynamo-electric machines. No. 1,401,049; Dec. 20.

Conlan, David, Jr., Brooklyn, N. Y. Electrical apparatus. No. 1,400,803; Dec. 20.

Cook, John P., London, Ontario, Canada. Cap. No. 1,400,528; Dec. 20.

Cooper, Harry E. (See Faudree, H., and Cooper.)

Copeland, Percival W., assignor to The Hind & Harrison Plush Co., Clark Mills, N. Y. Pile-fabric frames. No. 1,400,529; Dec. 20.

Corbett, James C. (See Barley, W. B., and Corbett.)

Cotta Transmission Company. (See Asproth, Axel Hj., assignor.)

Cox, Claude E., Detroit, Mich. Oil-cup. No. 1,400,804; Dec. 20.

Cosatt, Walter R., assignor of one-half to J. H. Brady, San Francisco, Calif. Space liner for matrices. No. 1,400,728; Dec. 20.

Craig, Louis E., Davenport, Iowa. Fastening device. No. 1,400,662; Dec. 20.

Crane, Thomas W., Imperial, Calif. Automatic fuel control. No. 1,400,868; Dec. 20.

Crawford, Charles F., Liberty, N. Y. Vehicle-brake. No. 1,400,869; Dec. 20.

Crawford, Ralph F., Salina, Kans. Cooling system for automobile-engines. No. 1,400,805; Dec. 20.

Crewsling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,400,729; Dec. 20.

Croney, Jan, Los Angeles, Calif. Tie-holder. No. 1,400,663; Dec. 20.

Crosinger, Lorenzo D., Dayton, Ohio. Automatic cut-out. No. 1,400,870; Dec. 20.

Crotty, Andrew J., Knocklong, Ireland. Oil-cap for vehicle-wheels. No. 1,400,871; Dec. 20.

Crouch, Marion L., assignor to The Procter & Gamble Company, Cincinnati, Ohio. Forming cakes of soap. No. 1,401,050; Dec. 20.

Curtis, Lula P., Los Angeles, Calif. Adjustable copy-holder. No. 1,400,730; Dec. 20.

Cyclemotor Corporation. (See Merkel, Joseph F., assignor.)

Dalton Adding Machine Company, The. (See Landsiedel, Harry, assignor.)

Dalton, Thomas, Chicago, Ill. Mop-holder. No. 1,401,051; Dec. 20.

Dana Cotton Harvester Company. (See Gabriel, G. A., and Skillins, assignors.)

Daniels, Dan, assignor to L. H. Harriman, trustee, Haverhill, Mass. Shoe-upper and finishing the edges thereof. No. 1,400,806; Dec. 20.

Danks, Alfred C., Pittsburgh, Pa. Dust-catcher valve and valve-operating mechanism. No. 1,401,052; Dec. 20.

Davidson, John, Jr. (See Demarest, C. S., and Davidson.)

Davis, Enell H., and R. D. Baker, Chicago, Ill. Lathe-center. No. 1,400,731; Dec. 20.

Dawson, Arthur T., Westminster, London, and J. Horne, Barrow-in-Furness, England, assignors to Vickers Limited, Westminster, London, England. Shell-bogies for use with ammunition-hoisting apparatus for ordnance. No. 1,401,114; Dec. 20.

Dawson, Charles, Tacoma, Wash. Grain-washing machines. No. 1,400,664; Dec. 20.

Dayton Engineering Laboratories Company, The. (See Haas, Nelson R., assignor.)

Dean, Marion E., Taunton, Mass. Tatting-shuttle. No. 1,401,053; Dec. 20.

De Haven, William I., Wichita, assignor to J. W. Moyle, Augusta, Kans. Toy. No. 1,400,942; Dec. 20.

Delacourt, Alberto F., assignor to Società Anonima Italiana Gio. Ansaldo & C., Genoa, Italy. Heating-furnace with removable hearth. No. 1,401,054; Dec. 20.

Demarest, Charles S., Brooklyn, N. Y., and John Davidson, Jr., Montclair, N. J., assignors to American Telephone and Telegraph Company, Signaling system. No. 1,400,732; Dec. 20.

Denver Rock Drill Manufacturing Company, The. (See Smith, William A., assignor.)

Dericco, Oscar A., San Francisco, Calif. Automobile windshield wiper. No. 1,400,665; Dec. 20.

De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Strip-folder for sewing-machines. No. 1,400,530; Dec. 20.

Dingle, William G., Los Angeles, Calif., assignor to Owl Fumigating Corporation, New York, N. Y. Fumigating and spraying apparatus. (Reissue.) No. 15,248; Dec. 20.

Dodds, Ethan I., Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,400,531; Dec. 20.

Dodds, Ethan I. (See Flannery, J. R., and Dodds.)

Dondo, Mathurin M., New York, N. Y. Marionette. No. 1,400,532; Dec. 20.

Dorsey, Isbum B., Eminence, Ky. Washtub-protector. No. 1,400,733; Dec. 20.

Dosenbach, Benjamin H., deceased, Butte, Mont., and W. A. Scott, Chicago, Ill., said Scott assignor to Minerals Separation North American Corporation; E. M. Dosenbach, distributee by order of court in the estate. Concentrating ore. No. 1,401,055; Dec. 20.

Dosenbach, Edna M., distributee by order of court. (See Dosenbach, B. H., and Scott.)

Douglas, Raymond I., Attleboro, Mass. Buckle. No. 1,400,666; Dec. 20.

Dow Chemical Company, The. (See Harlow, Ivan F., assignor.)

Down, Sidney G., Berkeley, assignor to Associated Engineering and Supply Company, San Francisco, Calif. Liquid-fuel control system. No. 1,400,667; Dec. 20.

Doyle, Louis S., Austin, Tex. Orthopedic appliance. No. 1,401,056; Dec. 20.

Draper Corporation. (See Abbott, Harry T., assignor.)

Draper Corporation. (See Rhoades, Alonzo E., assignor.)

Draver, Emil R., Richmond, Ind. Feeding device. No. 1,400,668; Dec. 20.

Drefs, Edward, Milwaukie, Oreg. Folding bed. No. 1,400,734; Dec. 20.

Drufva, John T., Longmeadow, Mass., assignor to Henry Hyman & Co. Inc., New York, N. Y. Portable electric light. (Reissue.) No. 15,249; Dec. 20.

Dudley, Samuel W., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake device. No. 1,400,670; Dec. 20.

Dudley, Samuel W., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Safety car-control device. No. 1,400,669; Dec. 20.

Dundore, William H., Reading, Pa. Vehicle-wheel. No. 1,400,807; Dec. 20.

Dynon, Alfred H., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Selective telephone system. No. 1,400,500; Dec. 20.

Eddy, Lawrence R., Elizabeth, N. J. Aeroplane-kite. No. 1,400,735; Dec. 20.

Edmunds, Bradford C., Newton, Mass., assignor to American Piano Company, New York, N. Y. Grand-piano construction. No. 1,401,115; Dec. 20.

Egan, George F. (See Stern, C., and Egan.)

Eggers, John H., Company. (See Steele, Herbert H., assignor.)

Ehret, Cornelius D., Philadelphia, Pa. Electrical wave transmission. No. 1,400,591; Dec. 20.

Ehrhart, Raymond N., assignor to Elliott Company, Pittsburgh, Pa. System for removing air and gases from water. No. 1,401,100; Dec. 20.

Ehrhart, Raymond N., assignor to Elliott Company, Pittsburgh, Pa. System for removing air and gases from water. No. 1,401,101; Dec. 20.

Ehrhart, Raymond N., assignor to Elliott Company, Pittsburgh, Pa. System for removing air and gases from water. No. 1,401,116; Dec. 20.

Electric Auto-Lite Corporation. (See Buchenberg, Alvin E., assignor.)

Elliott Company. (See Ehrhart, Raymond N., assignor.)

Elliott, Horace W., assignor of one-half to W. A. Gray, Greenfield, Ohio. Display-rack. No. 1,401,057; Dec. 20.

Elmendorf, Armin, Madison, Wis., assignor to Hasselite Manufacturing Corporation. Gluing-machine. No. 1,400,943; Dec. 20.

Engel, Oscar F., Hartford, Conn. Sprinkler. No. 1,400,533; Dec. 20.

Enterprise Railway Equipment Company. (See Campbell Argyle, assignor.)

Erickson, Albert, Chicago, Ill., assignor to Splitdorf Electrical Company, Newark, N. J. Ignition apparatus. No. 1,401,058; Dec. 20.

Ernest, Albert, Paxton, Ill. Folding bed. No. 1,400,534; Dec. 20.

Eureka Spark Plug Corporation. (See Christern, Grover, assignor.)

Evans, Harrison E., Somerville, Mass., assignor to Manning, Maxwell & Moore, Inc., New York, N. Y. Fluid-controlling valve. No. 1,400,944; Dec. 20.

Fallon, Leslie F. (See Phillips, John G., assignor.)

Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Staybolt structure. No. 1,400,534; Dec. 20.

Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Safety car-control device. No. 1,400,535; Dec. 20.

Farmer, Clyde C., Edgewood, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. No. 1,400,594; Dec. 20.

Farmer, Clyde C., Edgewood, assignor to Wetninghouse Air Brake Company, Wilmerding, Pa. Load brake equipment. No. 1,400,595; Dec. 20.

Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Safety car-control device. No. 1,400,596; Dec. 20.

Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. No. 1,400,597; Dec. 20.

Farrell Foundry and Machine Company. (See Bowen, D. E., and Schnuck, assignors.)

Faudree, Henry, and Harry E. Cooper, Columbus, Ind. Shock-absorber. No. 1,401,009; Dec. 20.

Fay, Harold, J. W. (See Wood, E. C., and Fay.)

Fearless Dishwasher Company Inc. (See Barley, W. B., and Corbett, assignors.)

Fedders, John M., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Radiator unit. No. 1,400,945; Dec. 20.

Fedders Manufacturing Company. (See Fedders, John M., assignor.)

Fedorko, Basyl, Ansonia, Conn. Envelop opener. No. 1,400,946; Dec. 20.

Fennell, Eleanor, New York, N. Y. Indicator for musical instruction. No. 1,400,947; Dec. 20.

Ferguson, Reuben L., Hondale, N. Mex. Liquid seal for pumps. No. 1,401,060; Dec. 20.

Ferry, Thomas F. (See Ahlm, C. E. F., and Ferry.)

Fischer, John G., Waterloo, Ill., assignor to A. B. Remick, St. Louis, Mo. Pulley. No. 1,400,671; Dec. 20.

Fisher, Alva J., assignor to Hartley Machine Company, Chicago, Ill. Ironing-machine. No. 1,400,806; Dec. 20.

Firestone Steel Products Company, The. (See Swain, Joseph G., assignor.)

Fitz Simmons, Edward S. (See Flannery, J. R., and Fitz Simmons.)

Flannery Bolt Company. (See Dodds, Ethan I., assignor.)

Flannery Bolt Company. (See Flannery, J. R., and Fitz Simmons, assignors.)

Flannery Bolt Company. (See Flannery, J. R., and Dodds, assignors.)

Flannery, John R., Pittsburgh, Pa., and E. I. Dodds, Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,400,535; Dec. 20.

Flannery, John R., Pittsburgh, Pa., and E. I. Dodds, Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,400,536; Dec. 20.

Flannery, John R., and E. S. Fitz Simmons, assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,400,735; Dec. 20.

Fleming, Edward R., Baltimore, Md. Envelop-opener. No. 1,400,800; Dec. 20.

Florence, Frank J., Pensacola, Fla. Store. No. 1,400,948; Dec. 20.

Flynn, Samuel J., Portsmouth, Va. Armored tire. No. 1,401,061; Dec. 20.

Focke, Georg G., Dresden-Blasewitz, Germany. Machine for making artificial leaves. No. 1,401,062; Dec. 20.

Fockler, Blair S. (See Riley, J., and Fockler.)

Foppoby, Frank W., Lawa, Calif. Superheater. No. 1,401,063; Dec. 20.

Ford Motor Company. (See Galamb, J., and Oswald, assignors.)

Forthman, Benjamin, Maplewood, Mo. Radiator-cover. No. 1,401,064; Dec. 20.

Fowler, Charles, Boston, Mass. Stocking-stretcher. No. 1,401,065; Dec. 20.

Fowler, Gates W., Los Angeles, Calif. Apparatus for producing noxious gases and method of asphyxiating obnoxious animals. No. 1,400,593; Dec. 20.

Franch, Val F., assignor of one-half to E. H. Hinkebein, Louisville, Ky. Railway-tie. No. 1,400,737; Dec. 20.

Frank, Harry S., St. Louis, Mo. Piston-ring. No. 1,400,672; Dec. 20.

Frey, William P., Buffalo, N. Y. Driving-axle construction. No. 1,400,949; Dec. 20.

Fried. Krupp Aktiengesellschaft. (See Akemann, Walther, assignor.)

Fried. Krupp Aktiengesellschaft. (See Haarmann, Friedrich, assignor.)

Fried. Krupp Aktiengesellschaft. (See Schleth, Frederich; assignor.)

Fried. Krupp Aktiengesellschaft. (See Sandhausen, Hermann, assignor.)

Fried. Krupp Aktiengesellschaft. (See Vollmer, John, assignor.)

Fries, Howard J., Tacoma, Wash. Double-exposure and blank-film preventing device for cameras. No. 1,400,872; Dec. 20.

Fritzsche, Samuel. (See Haverly, D. H., and Fritzsche.)

G. & W. Electric Specialty Co. (See Williams, Paul F., assignor.)

Gabriel, George A., and J. T. Phillips, assignors to Twin Cotton Harvester Company, Westbrook, Me. Reflector-mounting. No. 1,400,699; Dec. 20.

Gaillard, Andre Marcelin, France. Device for controlling the speed of automobile-vehicles. No. 1,400,810; Dec. 20.

Galamb, Joseph, and E. P. Oswald, assignor to Ford Motor Company, Detroit, Mich. Damper. No. 1,400,811; Dec. 20.

Gallagher, George D., New Haven, Conn., assignor of twenty-five one-hundred-and-fourths to E. T. Hess, twenty-five one-hundred-and-fourths to E. P. Walton, four one-hundred-and-fourths to M. G. Schaesberger, and twenty-five one-hundred-and-fourths to M. E. Moar, Baltimore, Md., and twenty-five one-hundred-and-fourths to C. F. Moore, Washington, D. C. Blade-sharpening device. (Reissue.) No. 15,250; Dec. 20.

Galloway, George, Cleveland, Ohio. Arch-support. No. 1,401,066; Dec. 20.

Garvey, Charles J., Port Henry, N. Y. Chain-fastening device. No. 1,401,067; Dec. 20.

Gatewell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company, Presser-foot for sewing-machines. No. 1,400,537; Dec. 20.

Gates, Charles C., Denver, Colo. Belt-making process. No. 1,400,538; Dec. 20.

Gates, Charles C., Denver, Colo. Endless belt. No. 1,400,539; Dec. 20.

Gates, James C. (See Wreaford, Leslie W., assignor.)

Gazo, John, Detroit, Mich. Railway construction. No. 1,401,068; Dec. 20.

Gehr, Ray S., Cleveland, Ohio. Planter. No. 1,400,738; Dec. 20.

Gehr, Ray S., Cleveland, Ohio. Planter. No. 1,400,739; Dec. 20.

Gehr, Ray S., Cleveland, Ohio. Planter. No. 1,400,740; Dec. 20.

General Electric Company. (See Alexanderson, E. F. W., assignor.)

General Electric Company. (See Halvorson, Cromwell A. B., assignor.)

General Electric Company. (See Knoderer, Homer G., assignor.)

Gerrard, Alec J. (See Wright, Parvin, assignor.)

Getgey, John J., Tulsa, Okla. Device for hanging and pressing trousers. No. 1,400,741; Dec. 20.

Gibson, Myron C., Los Angeles, Calif. Hacksaw. No. 1,400,878; Dec. 20.

Gilliland, Herbert L., Harrington, Wash. Weeding-implement. No. 1,400,673; Dec. 20.

Gloor, Albert, assignor to Sasgen Derrick Co., Chicago, Ill. Touring-derrick. No. 1,400,540; Dec. 20.

Glowacki, John B., Chicago, Ill. Adjustable hand-grip for crutches. No. 1,400,600; Dec. 20.

Gneiss, Gust H., and C. J. Peterson, Chicago, Ill. Panel. No. 1,400,950; Dec. 20.

Goetz, Oscar H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Bumper. No. 1,400,674; Dec. 20.

Goff, Douglas C., assignor of one-half to W. R. Anderson, Lynchburg, Va. Seat. No. 1,400,875; Dec. 20.

Goldsmith, Joseph, jr., Chicago, Ill. Hair-curling device. No. 1,400,812; Dec. 20.

Goldsmith, Louis. (See Kops W., and Goldsmith.)

Goodchild, William, Millinocket, assignor, by mesne assignments, to The Cone Bag Company, Madison, Me. Partition forming and attaching machine. No. 1,400,876; Dec. 20.

Goodfellow, John H., Buffalo, N. Y. Boiler-flue scraper. No. 1,400,951; Dec. 20.

Goodwin, Thomas F., Yelm, Wash. Direction-indicator for vehicles. No. 1,400,801; Dec. 20.

Gould Coupler Company. (See Bouché, William F., assignor.)

Gould Coupler Company. (See Crevoling, John L., assignor.)

Graemiger, Benjamin, Zurich, Switzerland. Compressing vapor in multistage centrifugal compressors. No. 1,400,813; Dec. 20.

Graham, Edward A., Brockley, London, England. Gramophone and like machine. No. 1,401,069; Dec. 20.

Gray, Walter A. (See Elliott, Horace W., assignor.)

Gregory, Theodore G., Providence, R. I. Hair-bobbing device. No. 1,401,070; Dec. 20.

Griffiths, Harry A., Birmingham, and R. H. Sutton Coldfield, England. Power-press for operating on metal sheets or strips. No. 1,401,108; Dec. 20.

Griffiths, Richard H. (See Griffiths, Harry A. and R. H.)

Griscom, Russell Company, The. (See Brown, Stanley, assignor.)

Grunsfeld, John B., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brakes. No. 1,400,952; Dec. 20.

Grover, Albert D., New York, N. Y., assignor, by mesne assignments, to Autocycles Corporation. Vending-machine. No. 1,400,814; Dec. 20.

Groves, Mile. (See Rogers, R., and Groves.)

Gruenstrup, Bernard F., Clinton, Iowa. Vending-machine. No. 1,400,742; Dec. 20.

Grundy, James A., assignor to John Bromley & Sons, Incorporated, Philadelphia, Pa. Dyeing yarns and the like. No. 1,400,675; Dec. 20.

Gully, Perry G., Rosalia, Wash. Bushing-remover. No. 1,400,676; Dec. 20.

Haarmann, Friedrich, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Device for closing the tap-holes in smelting furnaces. No. 1,401,072; Dec. 20.

Haas, Nelson E., assignor to The Dayton Engineering Laboratories Company, Dayton, Ohio. Circuit-controller. No. 1,401,071; Dec. 20.

Hathaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,400,816; Dec. 20.

Hadley, Idale L., Hartford, Conn. Bed. No. 1,400,952; Dec. 20.

Hafer, Adam P. (See Schlichamer, Elmer E., assignor.)

Hagan Corporation, The. (See Hopwood, John M., assignor.)

Hagen, Bernhard E., assignor of one-half to W. E. Smith, Minneapolis, Minn. Hot-air heater for automobiles. No. 1,400,815; Dec. 20.

Hall, Benjamin W., Manchester, N. H. Swivel connection. No. 1,401,073; Dec. 20.

Halvorson, Cromwell A. B., jr., Lynn, Mass., assignor to General Electrical Company. Lighting unit. No. 1,400,817; Dec. 20.

Hand, Jay A. (See Kuhn, F., Hand, and Spiess.)

Hansen, Charles C., New York, N. Y., assignor to Thermal Appliance Company, Inc., Elizabethport, N. J. Water-heater. No. 1,400,541; Dec. 20.

Hansen, Hans, Kansas City, Mo. Driving mechanism for washing machines. No. 1,400,743; Dec. 20.

Hansen, Hans, Kansas City, Mo. Gear-transmission for washing-machines and wringers. No. 1,400,744; Dec. 20.

Harlow, Ivan F., assignor to The Dow Chemical Company, Midland, Mich. Making potassium carbonate. No. 1,400,542; Dec. 20.

Harriman, Louis H., trustee. (See Daniels, Dan, assignor.)

Harrington, Clinton O., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical relay. No. 1,400,608; Dec. 20.

Harris, B., and W. Van Buren, Helena, Ark. Horseshoe. No. 1,401,074; Dec. 20.

Harris, Rex., San Diego, Calif. Aeroplane-engine-starting apparatus. No. 1,400,745; Dec. 20.

Harris, William W., New York, N. Y. Refuse-vehicle. No. 1,400,543; Dec. 20.

Hart, Harry S., Chicago, Ill. Dump-car-door-operating mechanism. No. 1,400,544; Dec. 20.

Hart, William J. (See Mason, C. T., and Hart.)

Hartwig, George, St. Louis, Mo. Piston-rod connection. No. 1,401,075; Dec. 20.

Haskelite Manufacturing Corporation. (See Elmendorf, Armin, assignor.)

Hayes, Edgar P., Dillon, S. C. Cotton-picking machine. No. 1,401,076; Dec. 20.

Heitzman, Fredrick J., Detroit, Mich., assignor to The Iaka Company, Chicago, Ill. Compressor. No. 1,400,102; Dec. 20.

Hellman, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,401,108; Dec. 20.

Hemco Electric Manufacturing Company. (See Ile, William, assignor.) (Reissue.)

Hendrix, John J., Brunswick, Ga. Water-wheel. No. 1,401,077; Dec. 20.

Heinecke, Carl R., Buffalo, N. Y. Hood-fastener. No. 1,400,953; Dec. 20.

Henry Hyman & Co. (See Drufva, John T., assignor.) (Reissue.)

Henry, James N. (See Coady, Matthew D., assignor.)

Herbert, Elmer H., Oakland, Calif. Theatrical automobile-race. No. 1,400,818; Dec. 20.

Hibler, Phillip. (See Jurkovich, Conrad, assignor.)

Hickey, James, Portland, Oreg. Hemstitching attachment for sewing-machines. No. 1,401,100; Dec. 20.

Higgins, Joseph W., Bordentown, N. J. Portable electric lamp. No. 1,400,819; Dec. 20.

Higgs, Percy J., New York, N. Y. Headlight. No. 1,400,820; Dec. 20.

Hillman, Albert G., assignor to Cinechrome Instruments, Limited, London, England. Intermittent feed mechanism. No. 1,400,877; Dec. 20.

Hillyard, Newton S., St. Joseph, Mo. Toilet-paper and paper-towel dispenser. No. 1,400,677; Dec. 20.

Hind & Harrison Plush Co., The. (See Copeland, Percival W., assignor.)

Hinkebein, E. H. (See Franck, Val F., assignor.)

Hinz, Herman J., San Francisco, Calif. Sand-dispensing device for motor-vehicles. No. 1,401,078; Dec. 20.

Hleb, Peter, Elizabeth, N. J., assignor to Singer Manufacturing Company. Nut-lock. No. 1,400,545; Dec. 20.

Hoagg, Walter, Detroit, Mich. Beet-topper. No. 1,401,079; Dec. 20.

Hobelmann, Herman A., Baltimore, Md. Window attachment. No. 1,401,080; Dec. 20.

Hoe, R., and Co. (See Wood, William M., assignor.)

Holbrook, Holfe R., assignor to W. A. Lurie, New Orleans, La. Key-cutting machine. No. 1,400,678; Dec. 20.

Holloway, John E., and H. E. Burwell, Milford, Conn. Combined brush and supply-holder. No. 1,400,954; Dec. 20.

Holme, Edward D., St. Joseph, Mo. Osteopathic-treatment table. No. 1,400,546; Dec. 20.

Holmstrom, Carl G., Washington, D. C. Apparatus for massage and therapeutic gymnastic treatments. No. 1,400,547; Dec. 20.

Hoogendijk, Frederik V., Bedkeley, Calif. Internal-combustion-engine construction. No. 1,400,746; Dec. 20.

Hoos, Nannie T., et al. (See Gallagher, George D., assignor.) (Reissue.)

Hoover Suction Sweeper Company, The. (See Staples, Albert F., assignor.)

Hopwood, John M., Dormont, Pa. Stoking mechanism. No. 1,400,548; Dec. 20.

Hopwood, John M., Dormont, Pa. Combustion-regulating means. No. 1,400,549; Dec. 20.

Hopwood, John M., Pittsburgh, Pa. Method and means for controlling and regulating. No. 1,400,550; Dec. 20.

Hopwood, John M., Dormont, assignor to The Hagan Corporation, Pittsburgh, Pa. Storage-tank. No. 1,400,747; Dec. 20.

Hornbeck, Henry S., Union Hill, N. J. Oscillating valve for pneumatic motors. No. 1,400,551; Dec. 20.

Horne, James. (See Dawson, A. T., and Horne.)

Howard, Herbert H., and G. Furmidge, Chicago, Ill., assignors to Steel Wings Company. Spring mechanism for front axles for automobiles. No. 1,400,604; Dec. 20.

Howard, Sidney C., Columbus, Ohio. Oil control and oil-feeder. No. 1,401,081; Dec. 20.

Howe, Frank D., Akron, Ohio, assignor, by mesne assignments, to International Harvester Company. Cooling device. No. 1,400,878; Dec. 20.

Howland, Arthur, West Newton, Mass. Compounding colors and apparatus for same. No. 1,400,552; Dec. 20.

Howland-Shearman, Charles H., Indianapolis, Ind. Jack. No. 1,400,605; Dec. 20.

Howland-Shearman, Charles H., Indianapolis, Ind. Mechanical puller. No. 1,400,606; Dec. 20.

Hughes Tool Company. (See Belcher, Mark, assignor.)

Hurley Machine Company. (See Fisher, Alva J., assignor.)

Hurtt, Christopher S., Portland, Oreg. Trolling device. No. 1,400,821; Dec. 20.

Ile, William, Lynbrook, assignor to Hermes Electric Manufacturing Company, New York, N. Y. Electric plug-receptacle. (Reissue.) No. 15,251; Dec. 20.

International Harvester Company. (See Burgess, Edward W., assignor.)

International Harvester Company. (See Howe, Frank D., assignor.)

International Harvester Company. (See Rand, Charles A. A., assignor.)

International Motor Company. (See Leipert, August H., assignor.)

International Motor Company. (See Masury, Alfred F., assignor.)

International Nitrogen Company. (See Reid, James H., assignor.)

Iaka Company, The. (See Heideman, Fredrick J., assignor.)

Jacob, Julius, Columbia, S. C. Cradle. No. 1,400,748; Dec. 20.

Jenks, Charles R., and R. O. Young, Cleveland, Ohio. Mixing device. No. 1,400,553; Dec. 20.

Jensen, George C., Oakland, Calif. Rotatable lock and interlock. No. 1,400,679; Dec. 20.

Jessen, James, Minneapolis, Minn. Internal-combustion engine. No. 1,400,955; Dec. 20.

Jeski, Otto H., assignor to The Standard Parts Company, Cleveland, Ohio. Rim. No. 1,400,956; Dec. 20.

Johnson, Frederick G. L., assignor to Vickers Limited, Westminster, England. Vent-sealing percussion-primer. No. 1,400,554; Dec. 20.

Johnson, William F., Baltimore, Md. Self-locking retaining-nut. No. 1,400,879; Dec. 20.

Johns-Pratt Company, The. (See Cole, Robert C., assignor.)

Johnston, Francis M., Hoffman, Okla. Trolley apparatus. No. 1,401,082; Dec. 20.

Johnston, George C., Pittsburgh, Pa., and L. S. Uphoff, Schenectady, N. Y. Guard for X-ray tubes. No. 1,400,607; Dec. 20.

Johnston, William R., assignor to Wm. R. Johnston Mfg. Co., Chicago, Ill. Curtain-window for vehicles. No. 1,400,880; Dec. 20.

Johnston, Wm. R., Mfg. Co. (See Johnston, William R., assignor.)

Johnstone, Arthur, Ottumwa, Iowa. Coffee-steep. No. 1,400,749; Dec. 20.

Jordan, John E., Seattle, Wash. Speed-control device for motor-vehicles. No. 1,400,608; Dec. 20.

Judd, Orion W., Paducah, Ky. Liquid-extractor. No. 1,400,957; Dec. 20.

Junge, Charles O., assignor of one-half to E. E. Bleck, Pittsburgh, Pa. Refrigerator-body for vehicles. No. 1,400,880; Dec. 20.

Jurkovich, Conrad, assignor of forty per cent. to F. Hibler, Joliet, Ill. Convertible bench. No. 1,401,083; Dec. 20.

Kaps, Richard A., assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio. Steering reach-rod. No. 1,401,110; Dec. 20.

Kasai, Kaichi, O-muta, Fukuoka Ken, assignor to Mitsui Mining Co., Tokyo, Japan. Manufacture of paranitroanilin from paranitroacetanilid. No. 1,400,555; Dec. 20.

Kaul, Herman M., Cedarburg, Wis. Trolley-wheel. No. 1,400,681; Dec. 20.

Kayser, Charles E., Lorain, Ohio. Display stand. No. 1,401,084; Dec. 20.
Kellogg Switchboard & Supply Company. (See Dyson, Alfred H., assignor.)
Kelly-Springfield Tire Company, The. (See Mastbaum, William M., assignor.)
Kelly Walker, Brenda. (See Clendenning, William L., assignor.)
Kelly, William H., San Francisco, Calif. Surveyor's instrument. No. 1,400,958; Dec. 20.
Kenney, William J. (See Nordell, Carl H., assignor.)
Keegan, Richard C., South Bend, Ind. Concrete-wall mold. No. 1,400,982; Dec. 20.
Keegan, Richard C., South Bend, Ind. Window-sash. No. 1,400,983; Dec. 20.
Kilmer, Opal E., Valparaiso, Ind. Baby-carriage. No. 1,401,085; Dec. 20.
King, James M., Livingston, Tex. Fishhook. No. 1,401,086; Dec. 20.
King, John Y., Lansdowne, Pa. Shirt. No. 1,400,881; Dec. 20.
Kinney, Joshua R., Alleton, Mass. Pump. No. 1,400,877; Dec. 20.
Klauer, William H., Dubuque, Iowa. Metal railing. No. 1,400,882; Dec. 20.
Koenig, Charles J., New Baltimore, Mich. Collection-receptacle. No. 1,400,823; Dec. 20.
Koetschet, Joseph, Lyon, France, assignor to Societe Chimique des Usines du Rhone, Anciennement Gilliard, P. Monnet, et Cartier, Paris, France. Process and apparatus for carrying out chemical reactions by catalysis. No. 1,400,959; Dec. 20.
Kohl, George E. (See Lindstrom, Arthur O., assignor.)
Kolarik, Wenzel F., Omena, Mich. Animal-weaning device. No. 1,400,750; Dec. 20.
Kops Bros. (See Kops, Waldemar, assignor.)
Kops Bros. (See Kops, W., and Goldsmith, assignors.)
Kops, Waldemar, assignor to Kops Bros., New York, N. Y. Brasslère. No. 1,400,853; Dec. 20.
Kops, Waldemar, and L. Goldsmith, assignors to Kops Bros., New York, N. Y. Brasslère. No. 1,400,894; Dec. 20.
Koster, Philipp, Frankfort-on-the-Main, Germany. Automatically unslagging shaft construction for water-gas generators. No. 1,400,885; Dec. 20.
Knoderer, Homer G., Englewood, N. J., assignor to General Electric Company. Electrical fitting. No. 1,400,824; Dec. 20.
Knowlton & Newton Co. (See Knowlton, H. W., and Newton, assignors.)
Knowlton, Harry W., and W. A. Newton, assignor to Knowlton & Newton Co., Inc., Lowell, Mass. Pipe-switch. No. 1,400,609; Dec. 20.
Kroyer, John M., Stockton, Calif. Tractor. No. 1,400,684; Dec. 20.
Krueshield, Henry, and A. J. Walter, Mansfield, Ohio. Surgical instrument. No. 1,401,104; Dec. 20.
Krus, Andrew, Chicago, Ill. Hand-press and bottle-capping apparatus. No. 1,400,586; Dec. 20.
Kruse, August M., Defiance, Ohio. Container. No. 1,400,685; Dec. 20.
Kuehl, Carsten H. (See Salányi, William, assignor.)
Kuert, Ira J., Los Angeles, Calif. Concrete form. No. 1,400,751; Dec. 20.
Kuhn, Frank J. A. Hand, and J. G. Spicer, assignors to American Electrical Heater Company, Detroit, Mich. Terminal connection for electrical heating units. No. 1,400,636; Dec. 20.
Kurtz, Cyrus B., Lakewood, Ohio. Transmission mechanism. No. 1,400,687; Dec. 20.
Ladd, John W., Company. (See Mason, William G., assignor.)
Lambert, Arthur W., Croydon, England. Means for supporting shelves and analogous purposes. No. 1,400,960; Dec. 30.
Lancaster, George W., assignor to Teller Protector Company, Inc., Richmond, Va. Silent electric signal for banks. No. 1,401,087; Dec. 20.
Land, Charles H., Jr., assignor of one-half to W. H. Wilson, Detroit, Mich. Trailer. No. 1,400,752; Dec. 20.
Landsiedel, Harry, assignor to The Dalton Adding Machine Company, Cincinnati, Ohio. Adding and recording machine. No. 1,400,610; Dec. 20.
Lang, Charles W., Brooklyn, N. Y. Profiling attachment for milling-machines. No. 1,400,961; Dec. 20.
Lau, Oliver A., Hamburg, Pa. Lady's undergarment. No. 1,400,825; Dec. 20.
Laughery, Mrs. E. A. (See Schults, Edward, assignor.)
Lee, George T., Glyndon, Minn. Tire-shade. No. 1,401,083; Dec. 20.
Lederman, George. (See Anthony, M. O., and Lederman.)
Leger, Emile J., Moncton, New Brunswick, Canada. Mail-collecting apparatus. No. 1,400,611; Dec. 20.
Legg, David A., assignor to M. A. Adam, London, England. Copper catalyst. No. 1,401,117; Dec. 20.
Leggett, Albert A., Baltimore, Md. Cleansing and polishing composition. No. 1,400,825; Dec. 20.
Leonard Roller Gear Drive Thresher Company, The. (See Leonard, William C., assignor.)
Leonard, Roy E., Los Angeles, Calif. Process of and apparatus for drilling oil-wells. No. 1,400,962; Dec. 20.
Leonard, William C., assignor to The Leonard Roller Gear Drive Thresher Company, Lewiston, Idaho. Feeder for grain-separators. No. 1,400,688; Dec. 20.
Lessert, August H., assignor to International Motor Company, New York, Child. No. 1,400,545; Dec. 20.
Lessert, August H. (See Manley, A. F., and Lessert.)
Lessinger, Harry C., Roseville, Detroit. Internal-combustion engine. No. 1,401,089; Dec. 20.
Lewis, Fred G., assignor to Rhodes Harvester Company, Spokane, Wash. Steering mechanism. No. 1,400,689; Dec. 20.
Lewis, Fred G., Dishman, assignor to Spokane Manufacturing Company, Spokane, Wash. Traction-machine. No. 1,400,690; Dec. 20.
Lewis, James C., Portland, Me. Vehicle-wheel with permanent rim or metal felly. No. 1,400,558; Dec. 20.
Lewis, Theodore G., assignor to Buffalo Dental Manufacturing Company, Buffalo, N. Y. Circuit-controller. No. 1,400,692; Dec. 20.
Leumann, Richard, Chailly-sur-Lausanne, Switzerland. Apparatus for unwinding paper strips from rolls of paper in wrapping-machines. No. 1,400,827; Dec. 20.
Levy, Isidor, New York, N. Y. Garment-press. No. 1,401,090; Dec. 20.
Lieberg, Nels E., Seattle, Wash. Vehicle-spring. No. 1,401,612; Dec. 20.
Liebler, Henry B. (See Mehl, C. F., Liebler, Nall, and Nobbe.)
Lieblein, Harriet, Philadelphia, Pa. Educational device. No. 1,400,887; Dec. 20.
Lindstrom, Arthur O., assignor of one-half to G. E. Kohl, Cleveland, Ohio. Steam-bridle. No. 1,400,824; Dec. 20.
Lizoun-ff, Vasili, assignor to Martin A. Rossoff, Pittsburgh, Pa. Operation of blast furnaces. No. 1,400,893; Dec. 20.
Loeck, Arthur G., Campbellsport, Wis. Hanger apparatus for blower-pipes when filling silos. No. 1,400,753; Dec. 20.
Lots, William A. (See Tueckmantel, H., and Lots.)
Lourie, Nicholas R., Gloucester, Mass. False tooth and supporting means therefor. No. 1,400,613; Dec. 20.
Lovejoy, Fred P., Springfield, Vt. Turret attachment for metal-working machines. No. 1,400,614; Dec. 20.
Lucas, Arthur W., Fremont, Nebr. Ventilating apparatus for closet-bowls. No. 1,401,091; Dec. 20.
Lucey Manufacturing Corporation. (See Vreeland, Walter G., assignor.)
Lucke, Charles E., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Internal-combustion engine. No. 1,400,889; Dec. 20.
Lurie, William A. (See Holbrook, Rolfe R., assignor.)
Mackenzie, Fred L., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Patterson, N. J. Nail. No. 1,400,756; Dec. 20.
Mackintosh, William M., Springfield township, Summit county, assignor to The Kelly-Springfield Tire Company, Akron, Ohio. Vulcanizing rubber. No. 1,400,618; Dec. 20.
Majestic Electric Development Company. (See Brown, E. N., and Schoenberg, assignors.)
Malstrom, Louise, Los Angeles, Calif. Producing artificial flower-petals. No. 1,400,691; Dec. 20.
Maluss, Windyslaw, Harrison, N. J. Sugar-dispenser. No. 1,400,757; Dec. 20.
Manning, Maxwell & Moore Inc. (See Evans, Harrison E., assignor.)
Mansfield, Frederick H., Washington, D. C. Luggage-carrier. No. 1,400,758; Dec. 20.
Marcuse, Moses M., assignor to West Disinfecting Company, New York, N. Y. Dispensing device for sheet material. No. 1,400,619; Dec. 20.
Marden, William L., assignor to Neptune Meter Company, New York, N. Y. Water-meter. No. 1,400,559; Dec. 20.
Marshall, Lewis C., Walpole, assignor to Pressure Proof Piston Ring Company, Boston, Mass. Piston-packing. No. 1,400,560; Dec. 20.
Martin, Bertrand G., London, England. Loose-leaf book. No. 1,400,891; Dec. 20.
Martinka, Eliel K. (See Martinka, John K. and E. K.)
Martinka, John K. and E. K., assignors of one-third to M. Tomecek, New York, N. Y. Egg-tester. No. 1,400,966; Dec. 20.
Martin, Oliver C., Richmond Hill, N. Y., assignor to Nichols Copper Company, New York, N. Y. Process and apparatus for refining copper. No. 1,400,892; Dec. 20.
Martin, Robert F., assignor to Robert F. Martin Corporation, New York, N. Y. Wall construction and brick therefor. No. 1,400,898; Dec. 20.
Martin, Robert F., Corporation. (See Martin, Robert F., assignor.)
Mason, Carl T., East Orange, N. J., and W. J. Hart, Mt. Vernon, N. Y., assignors to Splitdorf Electrical Company, Newark, N. J. Ignition system. No. 1,400,561; Dec. 20.
Mason, William G., assignor to John W. Ladd Company, Detroit, Mich. Bottle or can washing machine. No. 1,400,894; Dec. 20.
Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Cooling system for motor-vehicles. No. 1,400,562; Dec. 20.
Masury, Alfred F., and A. H. Leipert, New York, N. Y. Cushioned connection for vehicle construction. No. 1,400,563; Dec. 20.
Mathy, Maurice, Liege, Belgium. Crucible-furnace. No. 1,400,759; Dec. 20.
Matthews, Edwin S., New York, N. Y. Indicating and recording liquid-fuel-supply-tank apparatus. No. 1,400,895; Dec. 20.

Max Ams Machine Company, The. (See Brensinger, Julius, assignor.)
Maxwell, James V., and J. P. Seiser, White Plains, N. Y.; said Seiser assignor to said Maxwell. Trussed hollow spar. No. 1,400,620; Dec. 20.
May, Lawrence E., Nashville, Tenn. Pump. No. 1,401,094; Dec. 20.
McCalmant, Frederick J., De Smet, S. D. Locking-valve. No. 1,400,615; Dec. 20.
McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,400,964; Dec. 20.
McClure, Silas, Beaver Dam, Wis. Combination coal and gas range. No. 1,400,555; Dec. 20.
McClure, Silas. (See Palmer, Stanley W., assignor.)
McCrory, Harvey B., and W. Pearson, Saginaw, Mich. Abdominal retractor. No. 1,400,616; Dec. 20.
McCunn, Charles L., assignor to Resolute Manufacturing Company, Chicago, Ill. Sealed radius-bearing. No. 1,400,754; Dec. 20.
McCunn, Charles L., assignor to Resolute Manufacturing Company, Chicago, Ill. Compressor. No. 1,400,755; Dec. 20.
McCutcheon, John, Peabody, Kans. Extricating device. No. 1,401,092; Dec. 20.
McDaniels, Frank A., Portland, Oreg. Controlling device. No. 1,401,093; Dec. 20.
McFadden, John, South Chicago, Ill. Folding square. No. 1,400,617; Dec. 20.
McGavock, William J., Memphis, Tenn. Current-motor. No. 1,400,965; Dec. 20.
McGowin, Norman F. (See Archer, Charles B., assignor.)
McLean, Charles S. (See Powell, T. B., and McLean.)
McQuillin, James C., Oakland, Calif. Automobile-top. No. 1,400,890; Dec. 20.
Mehl, C. F., H. B. Liebler, J. Nall, and E. J. Nobbe, Cleveland, Ohio. Safety device for moving-picture machines. No. 1,400,760; Dec. 20.
Meinecke, Joseph, Paia Maui, Hawaii. Cane-sugar mill. No. 1,401,095; Dec. 20.
Meriwether, Coleman, Louisville, Ky., assignor to P. C. Reilly, Indianapolis, Ind. Metaled-end concrete pipe. No. 1,401,105; Dec. 20.
Merkel, Joseph F., assignor to Cyclemotor Corporation, Rochester, N. Y. Means for securing articles to motor-cycles and the like. No. 1,400,967; Dec. 20.
Mesters, Robert, Oakland, Calif. Antiskid-chain. No. 1,400,896; Dec. 20.
Metzger, Myer, Chicago, Ill. Sign-holder. No. 1,400,564; Dec. 20.
Miller, Peter, Springdale, Wash. Tie-puller. No. 1,400,692; Dec. 20.
Miller, Samuel M. D., Detroit, Mich. Clutch. No. 1,400,565; Dec. 20.
Miller, William J., Swissvale borough, Pa. Mechanism for forming glassware. No. 1,400,621; Dec. 20.
Milne, Robert, assignor to The Savage & Love Company, Rockford, Ill. Thread-milling machine. No. 1,400,761; Dec. 20.
Milne, Walter K., Brooklyn, N. Y. Eye-shade. No. 1,401,118; Dec. 20.
Minerals Separation North American Corporation. (See Dorenbach, B. H., and Scott, assignors.)
Mitchell, Louis J., Dinuba, Calif. Leveler and dirt-scraper. No. 1,400,968; Dec. 20.
Mitsui Mining Co. (See Kasai, Kaichi, assignor.)
Mohr, Mabel E., *et al.* (See Gallagher, George D., assignor.) (Reissue.)
Moore, Callie F., *et al.* (See Gallagher, George D., assignor.) (Reissue.)
Moore, Charles N. (See Zinsel, George, assignor.)
Moore, Otto, assignor, by mesne assignments, of one-half to Automatic Sliding Trolley Company, Frankfort, Ind. Sliding trolley. (Reissue.) No. 15,252; Dec. 20.
Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,400,566; Dec. 20.
Moyle, John W. See De Haven, William L., assignor.)
Moyles, James W., Chicago, Ill. Combined sleeve-puller and lifting-jack. No. 1,400,897; Dec. 20.
Mulford, Louis K., Denver, Colo. Curtain attachment for windshields. No. 1,400,567; Dec. 20.
Murdock, Andrew G., Highland Park, Mich. Hinge-gage. No. 1,400,898; Dec. 20.
Murphy, Thomas B., Detroit, Mich. Tool-holding attachment for grinding-machines. No. 1,400,762; Dec. 20.
Nakayama, Mizuhiko, Toyotamagun Tokyo-fu, and Keijiro Adachi, Shitaya-Ku, Tokyo, Japan. Utilization of waste or scraps of leather. No. 1,400,899; Dec. 20.
Nall, Jabez. (See Mehl, C. F., Liebler, Nall, and Nobbe.)
National Brake & Electric Company. (See Aikman, Burton S., assignor.)
National Carbon Company. (See Benner, Raymond C., assignor.)
Neilson, Robert E., assignor to Tulsa Machine and Tool Company, Tulsa, Okla. Temper-screw for well-drilling tools. No. 1,400,900; Dec. 20.
Nelson, Frank F., San Francisco, Calif. View-finding device. No. 1,400,901; Dec. 20.
Nelson, John, Ottawa, Kans. Concrete-tie-making machine. No. 1,400,969; Dec. 20.
Neptune Meter Company. (See Marden, William L., assignor.)
Neudeck, Wesely R., Kansas City, Kans. Decoy-minnow. No. 1,401,096; Dec. 20.
Neumann, R., Hardware Co., The. (See Tueckmantel, H., and Lots, assignors.)
Newton, Wilmer A. (See Knowlton, H. W., and Newton.)
Nichols Copper Company. (See Martin, Oliver C., assignor.)
Nickolaus, John A., Richland, Wash. Irrigating-valve. No. 1,401,097; Dec. 20.
Nobbe, Edward J. (See Mehl, C. F., Liebler, Nall, and Nobbe.)
Nolan, Clyde, assignor to American Steam Conveyor Corporation, Chicago, Ill. Self-opening bucket. No. 1,400,902; Dec. 20.
Nolan, Clyde, assignor to American Steam Conveyor Corporation, Chicago, Ill. Self-opening-bucket. No. 1,400,903; Dec. 20.
Nomeland, Sam K., Porter, Minn. Novelty match-box. No. 1,400,904; Dec. 20.
Nordell, Carl H., Indianapolis, Ind., assignor of one-half to W. J. Kenney, Chicago, Ill. Sedimentation. No. 1,400,622; Dec. 20.
Nordstrom, Sven J., San Francisco, Calif. Wrench. No. 1,400,905; Dec. 20.
Norman, William F., Nevada, Mo. Grave-marker. No. 1,400,970; Dec. 20.
Nye, Frank H., Warsaw, Ind. Motor-vehicle attachment. No. 1,400,971; Dec. 20.
Oakley, John, Springfield, Mass., assignor to Bansh Machine Tool Company. Production of connecting-rods and similar machine parts. No. 1,400,829; Dec. 20.
O'Brien, Frank E., Troy, N. Y. Laundry-form. No. 1,400,763; Dec. 20.
Offenhauser, Christopher, Philadelphia, Pa. Method of and apparatus for feeding fluids. No. 1,400,972; Dec. 20.
Olshei, John R., Buffalo, N. Y. Protecting appliance for use on automobiles. No. 1,400,623; Dec. 20.
Olliard, James C., Tacoma, Wash. Machine for straightening bent pipes, rods, &c. No. 1,400,764; Dec. 20.
Opt, Warren N., assignor to C. I. Strauss and C. Pond, Tiffin, Ohio. Cream-separator. No. 1,400,973; Dec. 20.
Osborn, Thomas O. (See Powell, T. B., and McLean, assignors.)
Oswald, Earl P. (See Galamb, J., and Oswald.)
Owens, Oscar M., Homer, Ga. Animal-poke. No. 1,400,568; Dec. 20.
Owl Fumigating Corporation. (See Dingle, William G., assignor.) (Reissue.)
Packard Motor Car Company. (See Church, Harold D., assignor.)
Packard Motor Car Company. (See Moorhouse, Alfred, assignor.)
Page, Henry B., Greenville, Miss. Dirigible headlight for motor-vehicles. No. 1,400,975; Dec. 20.
Pallette, Mellville A., Independence, Mo. Oil-well cleaner. No. 1,400,765; Dec. 20.
Palmer, Stanley W., assignor to S. McClure, Beaver Dam, Wis. High-closet bracket for ranges. No. 1,400,569; Dec. 20.
Paque, Edward J., assignor to The Pollak Steel Company, Cincinnati, Ohio. Reinforce-bar. No. 1,400,570; Dec. 20.
Parke, Peter, assignor to The Pullman Company, Chicago, Ill. Equalizer for car-trucks. No. 1,400,693; Dec. 20.
Parke, Peter. (See Weaver, J. B., and Parke.)
Parker, Fred G., Paterson, N. J. Seating-appliance. No. 1,400,974; Dec. 20.
Parmele, William G., Seattle, Wash. Life-saving device. No. 1,400,976; Dec. 20.
Pearsons, George T., New York, N. Y. Fire-extinguisher. No. 1,400,906; Dec. 20.
Pearson, Wesley. (See McCrory, H., and Pearson.)
Peebles, Thomas A., Pittsburgh, Pa. Stoking mechanism. No. 1,400,766; Dec. 20.
Peebles, Thomas A., Pittsburgh, Pa. Boiler-furnace. No. 1,400,830; Dec. 20.
Perfection Tie Company. (See Boros, John, assignor.)
Perkins, B. F., & Son, Inc. (See Bartlett, Henry B., assignor.)
Perry, Emanuel J., New Bedford, Mass. Washing-machine. No. 1,400,977; Dec. 20.
Perry, Frederick H., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Grinding cutting-edges. No. 1,400,767; Dec. 20.
Peterson, Charles J. (See Gneiss, G. H., and Peterson.)
Pierce Fuse Corporation. (See Candee, B. C., and Pierce, assignors.)
Pierce, William N. (See Candee, B. C., and Pierce.)
Pierson, Irving R., New York, N. Y. Means for metal-strapping and sealing containers. No. 1,400,624; Dec. 20.
Pirc, Frank, Marinette, Wis. Reversible plow. No. 1,400,768; Dec. 20.
Pittsburgh Meter Company. (See Chrisman, Horace, assignor.)
Pittsburgh Steel Company. (See Bull, George E., assignor.)
Pittsburgh Transformer Company. (See Bingay, Robert V., assignor.)
Phillips, Ross M. G., New Haven, Conn., assignor to Perlie P. Fallon, New York, N. Y. Phonograph lighting system. No. 1,400,694; Dec. 20.
Pollak Steel Company, The. (See Paque, Edward J., assignor.)

Patapoff, Morris, assignor of one-half to Morris Abel, Philadelphia, Pa. Radiator. No. 1,400,978; Dec. 20.
Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel building machine. No. 1,400,805; Dec. 20.
Powell, Thomas A., Malvern, Ill. Grass catcher for lawn mowers. No. 1,400,977; Dec. 20.
Powell, Thomas B., and C. E. McLean, Long Beach, assignors, by mesne assignments, to T. O. Thalmer, Los Angeles, Calif. Auxiliary windshield for vehicles. No. 1,400,979; Dec. 20.
Pressure Proof Piston Ring Company. (See Marshall, Lewis C., assignor.)
Prince, Arthur C., Chicago, Ill. Lock. No. 1,400,980, Dec. 20.
Prussian Company, The. (See Cuist, John W., Jr., assignor.)
Pyrotor & Gamble Company, The. (See Crouch, Marion L., assignor.)
Pullman Company, The. (See Parks, Peter, assignor.)
Pullman Company, The. (See Weaver, J. B., and Parks, assignors.)
Puryear, Samuel R., Columbia, Tenn. Apparatus for separating solids from liquids. No. 1,400,981; Dec. 20.
Posard, Eric R., Boone, Iowa. Electric-pedal attachment for tractors. No. 1,400,981; Dec. 20.
Ramsey, James D., Talladega, Miss. Cotton-scraper. No. 1,400,982; Dec. 20.
Rand, Charles A. A., Chicago, Ill., assignor to International Harvester Company, Safety-link for levers. No. 1,400,909; Dec. 20.
Ransom, Eugene S., Jr., Newark, N. J. Hydraulic fig-separator. No. 1,400,810; Dec. 20.
Rapson, Frederick L., Liverpool, England. Device for retaining the shape of hats. No. 1,400,788; Dec. 20.
Rasch, Ludvik, Christiania, Norway. Pumping arrangement for turbine-driven separators. No. 1,400,811; Dec. 20.
Rastall, Arthur R., Ealing, England. Tone-arm for sound-reproducing machines. No. 1,400,983; Dec. 20.
Rawlinson, Edward, Vallejo, Calif. Leg-support. No. 1,400,625; Dec. 20.
Ray, Malcolm, Orange, Tex. Motor-vehicle for traversing marsh lands. No. 1,400,984; Dec. 20.
Rayder, Joseph A., Philadelphia, Pa. Phonograph-amplifier. No. 1,400,985; Dec. 20.
Reid, James H., Pittsburgh, Pa., assignor to International Nitrogen Company, Making nitric acid. No. 1,400,912; Dec. 20.
Reilly, Peter C. (See Meriwether, Coleman, assignor.)
Remick, Andrew B. (See Fischer, John G., assignor.)
Remington Accounting Machine Corporation. (See Wahl, John C., assignor.)
Remy Electric Company. (See Conklin, Oliver E., assignor.)
Resolute Manufacturing Company. (See McClure, Charles L., assignor.)
Reynolds Manufacturing Company. (See Wilbur, Frederick H., assignor.)
Rhoades, Alonso E., assignor to Draper Corporation, Hopedale, Mass. Hand-wheel mechanism for looms and other machines. No. 1,401,096; Dec. 20.
Rhodes Harvester Company. (See Lewis, Fred G., assignor.)
Rieck, Edward E. (See Junge, Charles O., assignor.)
Riley, Jesse F., and B. S. Fockler, Hagerstown, Md. Brake-hanger. No. 1,400,986; Dec. 20.
Rippenbein, Nicholas, New York, N. Y. Display stand. No. 1,400,987; Dec. 20.
Ritchie, Foster, Ealing, England. Printing-telegraph. No. 1,400,988; Dec. 20.
Roberts, Charles, Portsmouth, Ohio. Railway bumper-block. No. 1,400,989; Dec. 20.
Robin, Joseph T., Streatham, London, England. Projection or distribution of light. No. 1,400,990; Dec. 20.
Rodrigues, Alphonse C., Baton Rouge, La. Pipe-measuring square for plumbers and steam-fitters. No. 1,400,626; Dec. 20.
Rogers, Ray, and M. Groves, Midian, Kans. Stuffing-box. No. 1,400,991; Dec. 20.
Rosanoff, Martin A. (See Lissouneff, Vasili, assignor.)
Rosebloom, Alfred B., Chicago, Ill. Toy. No. 1,400,696; Dec. 20.
Rosel, Charles, Newark, Ohio. Lawn-edging machine. No. 1,400,627; Dec. 20.
Rosewater, Nathan, Cleveland, Ohio. Treating coffee-beans and other substances and product resulting therefrom. No. 1,400,992; Dec. 20.
Rudolph, Alfred W., St. Louis, Mo. Self-irrigating flower-pot. No. 1,400,628; Dec. 20.
Sanford, S., & Sons, Inc. (See Collins, Charles H., assignor.)
Sargent, Charles E., Indianapolis, Ind. Boiler feed-water purifier. No. 1,400,993; Dec. 20.
Saugen Derrick Co. (See Gloor, Albert, assignor.)
Savage & Love Company, The. (See Milne, Robert, assignor.)
Scales, John E., Indianapolis, and L. M. Wilson, Bloomington, Ind. Dispensing apparatus. No. 1,400,770; Dec. 20.
Scarsdale, Earl B., Dayton, Ohio. Babbitting device. No. 1,400,994; Dec. 20.
Schaefer, Henry H., Weldona, Colo. Wire tightener and splicer. No. 1,400,995; Dec. 20.
Schermerhorn, Marguerite G., et al. (See Gallagher, George D., assignor.)
Schiebler, Adolf, Berlin, Germany. Centrifugal governor. No. 1,400,172; Dec. 20.
Schiebammer, Herman, Whitestone Landing, assignor to American Hard Rubber Co., New York, N. Y. Manufacture of hard-rubber battery jars and similar articles. No. 1,400,810; Dec. 20.
Scovell, Walter S., et al. (See Henry, John A., assignor.)
Seidenbecher, Richard E., assignor of one-fourth to A. P. Baker, Reading, Pa. Heating system. No. 1,400,831; Dec. 20.
Sessmer, Alexander, Kansas City, Mo. Well-strainer. No. 1,400,681; Dec. 20.
Schmidt, Friedrich Simon, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Apparatus for testing the sighting device of ordnance. No. 1,400,772; Dec. 20.
Schmidt, John H. and L. Ahlers, Harriman, Pa. Universal rivet holder-on jam. No. 1,400,671; Dec. 20.
Schmuck, Carl E. (See Dawson, G. R., and Schmuck.)
Schoch, Howard H., assignor to Universal Optical Corporation, Providence, R. I. Ophthalmic mounting. No. 1,400,997; Dec. 20.
Schroeder's, A., Son, Inc. (See Anderson, Thomas W., assignor.)
Schultz, Edward, Norwood, assignor by mesne assignments to Mrs. E. A. Lassiter, Chicago, Ill. Coin-operated vending machine. No. 1,400,772; Dec. 20.
Scott, Walter A. (See Dennenstadt, H. H., and Scott.)
Scurlock, Charles C., Portland, Oreg. Portable power-operated tool-holder. No. 1,400,771; Dec. 20.
Seiler, Joseph F. (See Maxwell, J. V., and Seiler.)
Selvage, George A., Detroit, Mich. Screen for sand, gravel, &c. No. 1,400,607; Dec. 20.
Selleck, Edgar C., San Francisco, Calif. Trolley-spoon. No. 1,400,629; Dec. 20.
Seymour, Dudley H., Oak Park, assignor to Union Special Machine Company, Chicago, Ill. Trimming mechanism for sewing machines. No. 1,400,998; Dec. 20.
Shaw, Louis E., East Orange, N. J. Electric clock. No. 1,400,822; Dec. 20.
Shoenberg, Milton H. (See Brown, E. N., and Shoenberg.)
Shoenberg, Milton H., San Francisco, Calif. Socket-interrupter. No. 1,400,914; Dec. 20.
Shonk, William F., Detroit, Mich. Automobile signal. No. 1,400,999; Dec. 20.
Sigel, William B., Amelia, assignor, by mesne assignments, to The Stebling Truck Co., Cincinnati, Ohio. Fluid-check for lifting trucks. No. 1,401,111; Dec. 20.
Singer Manufacturing Company, The. (See Gatchell, George S., assignor.)
Singer Manufacturing Company. (See Hisz, Peter, assignor.)
Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)
Skillins, John T. (See Gabriel, G. A., and Skillins.)
Skousen, Julius H., Joplin, Mo. Emergency-tire for automobiles. No. 1,400,913; Dec. 20.
Skolfield, Constance M., New Orleans, La. Gage. No. 1,401,000; Dec. 20.
Skuse, Fred T., Kirkland, Wash. Poultry-feed apparatus. No. 1,400,833; Dec. 20.
Skworchinsky, John. (See Addis, Charles N., assignor.)
Smeby, Karl A., and G. W. Akin, Denver, Colo. License-number carrier. No. 1,400,630; Dec. 20.
Smiley, John W., Winchester, Ky. Game of cards. No. 1,401,001; Dec. 20.
Smith, Charles H., Boston, Mass. Safety relief-valve for hot-water systems. No. 1,401,002; Dec. 20.
Smith, Howard A., Montgomery, Iowa. Hayrack-fastener. No. 1,400,834; Dec. 20.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Multiple-ply web for typewriters. No. 1,400,572; Dec. 20.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Multiple-ply web for typewriters. No. 1,400,631; Dec. 20.
Smith, Jerome W., Walla Walla, Wash. Electric lantern. No. 1,400,775; Dec. 20.
Smith, Norman E., San Francisco, Calif. Airplane. No. 1,400,916; Dec. 20.
Smith, Temple C., East Orange, N. J., assignor to American Telephone and Telegraph Company. Deflection dynamometer. No. 1,400,776; Dec. 20.
Smith, W. W. (See Anderson, Raymond T., assignor.)
Smith, Willard E. (See Hagen, Bernhard E., assignor.)
Smith, William A., Phillipsburg, N. J., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Motor. No. 1,401,003; Dec. 20.
Snodgrass, Hascal, Bisbee, Ariz. Electrical fuse. No. 1,401,004; Dec. 20.
Snyder, Frank B., Altoona, Pa. Vehicle-brake. No. 1,401,005; Dec. 20.
Società Anonima Italiana Gio. Ansaldo & Co. (See Delacourt, Albert F., assignor.)
Société Chemique des Usines du Rhone, Anciens Ets. Gilliard, P. Monnet, et Cartier. (See Koetschet, Joseph, assignor.)
Soderberg, Henry A., Jersey City, N. J. Indicator. No. 1,401,006 Dec. 20.
Soule, Charles R., San Francisco, Calif. Knockdown cabinet for phonographs. No. 1,400,632; Dec. 20.
Spalding Ski-Kar Company, Inc. (See Spaulding, Thomas W., assignor.)

Spaulding, Thomas W., assignor to Spaulding Ski-Kar Company, Inc., Baltimore, Md. Toy vehicle. No. 1,400,017; Dec. 20.
Spiess, Georg, Leipzig-Reudnitz, Germany. Paper-cutting device. No. 1,400,777; Dec. 20.
Spiess, Georg, Leipzig, Germany. Sheet-feeding device. No. 1,400,778; Dec. 20.
Spiess, Julius G. (See Kuhn, F., Hand, and Spiess.)
Splitdorf Electrical Company. (See Erickson, Albert, assignor.)
Splitdorf Electrical Company. (See Mason, C. T., and Hart, assignors.)
Splitdorf Electrical Company. (See Tiedemann, Henry, assignor.)
Spokane Manufacturing Company. (See Lewis, Fred G., assignor.)
Stables, Linton G., Los Angeles, Calif. Automatic safety-guard. No. 1,400,835; Dec. 20.
Stader, William, Philadelphia, Pa. Suction lifting implement. No. 1,400,571; Dec. 20.
Stagl, Joseph E., Brooklyn, N. Y. Clothes-hanger. No. 1,400,634; Dec. 20.
Standard Oil Company. (See Burgess, Louis, assignor.)
Standard Parts Company, The. (See Jobski, Otto H., assignor.)
Standard Parts Company, The. (See Theberath, Joseph C., assignor.)
Steeples, Albert F., Boston, Mass., assignor to The Hoover Suction Sweeper Company, North Canton, Ohio. Suction-sweeper. No. 1,401,007; Dec. 20.
Steele, Herbert H., Pittsford, assignor to Todd Protectograph Company, Inc., Rochester, N. Y. Check-writer. No. 1,400,574; Dec. 20.
Steele, Herbert H., Pittsford, assignor to Todd Protectograph Company, Rochester, N. Y. Check-writer. No. 1,400,575; Dec. 20.
Steele, Herbert H., Brooklyn, assignor, by mesne assignments, to John H. Eggers Company, Inc., New York, N. Y. Machine for making coin-cards. No. 1,400,634; Dec. 20.
Steel Winga Company. (See Howard, H. H., and Furmidge, assignors.)
Steinman, Emil F., Arcadia, Wis. Nest. No. 1,400,576; Dec. 20.
Stephan, Frederick D. (See Stephan, William F., J. A., and F. D.)
Stephan, John A. (See Stephan, William F., J. A., and F. D.)
Stephen, William F., J. A., and F. D., Shelbyville, Ind. Boot and shoe. No. 1,400,826; Dec. 20.
Stern, Charles, and G. F. Egan, Jersey City, N. J. Automobile tail-lamp and signal. No. 1,400,685; Dec. 20.
Stewart, Carlton D., Berkeley, assignor to Associated Engineering and Supply Company, San Francisco, Calif. Regulating apparatus for liquid-fuel burners. No. 1,400,636; Dec. 20.
Stewart-Warner Speedometer Corporation. (See Goetz, Oscar H., assignor.)
Stiles, Edward M., Mount Pleasant, Iowa, assignor to U. S. Slicing Machine Company, Laporte, Ind. Holder for slicing-machines. No. 1,400,693; Dec. 20.
Stock, Robert, Sandusky, Ohio. Bottle-cap. No. 1,400,918; Dec. 20.
Stock, Robert, Sandusky, Ohio. Vehicle-wheel. No. 1,400,919; Dec. 20.
Stogner, John R., Lancaster, S. C. Ice-hook. No. 1,401,008; Dec. 20.
Strauss, Charles L., et al. (See Opt, Warren N., assignor.)
Strood, Myrtle V., Pine Hill, N. C. Picture-frame attachment. No. 1,400,920; Dec. 20.
Stuebing Truck Co., The. (See Sigel, William B., assignor.)
Submarine Signal Company. (See Wood, E. C., and Fay, assignors.)
Sullivan, John D., Salt Lake City, Utah. Lawn-sprinkler. No. 1,401,009; Dec. 20.
Summers, Leland L., Washington, D. C. Gun. No. 1,401,010; Dec. 20.
Sundhaussen, Hermann, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Brush arrangement for disk-shaped commutators. No. 1,400,779; Dec. 20.
Superheater Company, The. (See Barnes, John A., assignor.)
Swain, Joseph G., assignor, by mesne assignments, to The Firestone Steel Products Company, Akron, Ohio. Pressed-steel wheel. No. 1,400,837; Dec. 20.
Swanson, Peter, and A. Carlson, Ely, Minn. Auxiliary car-step. No. 1,400,577; Dec. 20.
Sweet, Frederick D., Cleveland, Ohio. Pump. No. 1,400,578; Dec. 20.
Szanyi, William, New York, N. Y., assignor of one-half to C. H. Kuehl, Hoboken, N. J. Hair-waving process and device. No. 1,400,637; Dec. 20.
Tate, Alfred O., New York, N. Y. Waterproofing substance for fibrous material. No. 1,400,579; Dec. 20.
Taylor, Charles H., Crosby, Minn. Automatic phonograph-stop. No. 1,400,638; Dec. 20.
Teitel, Albert, New York, N. Y., assignor to Cinema Patents Company, Chicago, Ill. Film-cleaner. No. 1,401,012; Dec. 12.
Teitel, Albert, New York, N. Y., assignor to Cinema Patents Company, Chicago, Ill. Film cleaner and rewinder. No. 1,401,013; Dec. 20.
Teitel, Albert, New York, N. Y., assignor to Cinema Patents Company, Chicago, Ill. Film-cleaning apparatus. No. 1,401,014; Dec. 20.
Telge, Walter A., Albion, N. Y. Animal-trap. No. 1,401,011; Dec. 20.
Teller Protector Company. (See Lancaster, George W., assignor.)
Tent, Ellis W., Michigan City, Ind. Roller door track. No. 1,400,690; Dec. 20.
Theberath, Joseph C., assignor to The Standard Parts Company, Cleveland, Ohio. Vehicle-wheel rim. No. 1,401,015; Dec. 20.
Thermal Appliance Company. (See Hansen, Charles C., assignor.)
Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electro-pneumatic brake. No. 1,400,629; Dec. 20.
Thornburgh, Ivan D., Berkeley, assignor to American Can Company, San Francisco, Calif. Organized apparatus for grooving can ends and applying ring-liners thereto. No. 1,400,580; Dec. 20.
Tiedemann, Henry, assignor to Splitdorf Electrical Company, Newark, N. J. Automatic impulse starting apparatus. No. 1,400,581; Dec. 20.
Tietz, Walter M., Newark, N. J. Device for making designs. No. 1,400,838; Dec. 20.
Tilson, William, Herrin, Ill. Aeroplane. No. 1,400,582; Dec. 20.
Todd Protectograph Company. (See Steele, Herbert H., assignor.)
Tolman, George S., Jr., Walpole, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-breasting machine. No. 1,400,700; Dec. 20.
Tomecek, Martin. (See Martinka, John K. and E. K., assignors.)
Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Telephone system. No. 1,400,583; Dec. 20.
Tower, Herschel E., assignor to The Baldwin Company, Cincinnati, Ohio. Mechanical musical instrument. No. 1,400,821; Dec. 20.
Troy Laundry Machinery Company. (See Bartholomew, William, assignor.)
Tuecksmantel, Hugo, and W. A. Lotz, Newark, N. J., assignors to The E. Neumann Hardware Co. Bag-lock. No. 1,400,640; Dec. 20.
Tulsa Machine and Tool Company. (See Neilson, Robert E., assignor.)
Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Safety device for regenerative brakes. No. 1,400,839; Dec. 20.
Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Regenerative brake device. No. 1,400,840; Dec. 20.
Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Combined fluid-pressure and regenerative brake. No. 1,400,841; Dec. 20.
Underwood Computing Machine Company. (See Vickers, Harry H., assignor.)
Underwood Typewriter Company. (See Helmond, William F., assignor.)
Underwood Typewriter Company. (See Smith, Jesse A. B., assignor.)
Underwood Typewriter Company. (See Waidheim, John, assignor.)
Union Special Machine Company. (See Seymour, Dudley S., assignor.)
Union Switch & Signal Company, The. (See Harrington, Clinton O., assignor.)
Union Switch & Signal Company, The. (See McCann, Ronald A., assignor.)
United Shoe Machinery Corporation. (See Bazzoni, Lewis J., assignor.)
United Shoe Machinery Corporation. (See Benjamin, John M., assignor.)
United Shoe Machinery Corporation. (See Hadaway, John B., assignor.)
United Shoe Machinery Corporation. (See Mackenzie, Fred L., assignor.)
United Shoe Machinery Corporation. (See Perry, Frederick H., assignor.)
United Shoe Machinery Corporation. (See Pope, Joseph H., assignor.)
United Shoe Machinery Corporation. (See Tolman, George S., Jr., assignor.)
United Shoe Machinery Corporation. (See Ward, Frank W., assignor.)
United Shoe Machinery Corporation. (See Winter, Henry W., assignor.)
Universal Optical Corporation. (See Schott, Howard H., assignor.)
Uphoff, Leslie S. (See Johnston, G. C., and Uphoff.)
U. S. Industrial Alcohol Co. (See Backhaus, Arthur A., assignor.)
U. S. Light & Heat Corporation. (See Bliss, William L., assignor.)
U. S. Slicing Machine Company. (See Stiles, Edward M., assignor.)
Valerio, Pietro F., New York, N. Y. Film-shift lock for cameras. No. 1,400,641; Dec. 20.
Van Buren, Willie. (See Harris, B., and Van Buren.)
Van Dyke, Ellas, Columbus, Ohio. Refrigerator. No. 1,400,643; Dec. 20.

Van Der Vorn, Jacob, Chicago, Ill. Boring bar. No. 1,400,642; Dec. 20.
Varley Duplex Magnet Company. (See Anderson, James C., assignor.)
Veenschoten, Vincent V., Erie, Pa. Indicating mechanism for spring-motors. No. 1,400,644; Dec. 20.
Vickers, Harry H., Corona, N. Y., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,400,642; Dec. 20.
Vickers Limited. (See Dawson, A. T., and Horne, assignors.)
Vickers Limited. (See Johnson, Frederick G. L., assignor.)
Villacorta, José S., San Ildefonso, Bulacan, Philippine Islands. Treating tobacco-leaf. No. 1,401,106; Dec. 20.
Vogensen, H. P. (See Christensen, Claus P., assignor.)
Volet, René A. L., Paris, France. Commutator and the like. No. 1,401,016; Dec. 20.
Vollmer, John, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Composite gun-barrel assembled by rotary motion of its component parts. No. 1,400,780; Dec. 20.
Vreeland, Walter G., assignor to Lucey Manufacturing Corporation, Chattanooga, Tenn. Automatic slip for well-boring apparatus. No. 1,400,701; Dec. 20.
Waguer, Charles B., Jr., Burlington, Wis. Shoe for furniture-legs. No. 1,400,781; Dec. 20.
Wahl, John C., Chicago, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y. Calculating-machine. No. 1,400,954; Dec. 20.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,400,702; Dec. 20.
Wallace, Frank W., Chattanooga, Tenn. Insect-killer. No. 1,400,782; Dec. 20.
Walten, Ruth B., et al. (See Gallagher, George D., assignor.) (Reissue.)
Walter, Allen J. (See Kruesheld, H., and Walter.)
Waream, Charles E., Cincinnati, assignor to The American Laundry Machinery Company, Norwood, Ohio. Feeding mechanism for hosiery-presses. No. 1,400,645; Dec. 20.
Ward, Frank W., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for use in lasting boots and shoes. No. 1,400,703; Dec. 20.
Ward, Jerome, assignor to Blatchford Calf Meal Co., Waukegan, Ill. Beater for grinders. No. 1,401,018; Dec. 20.
Ward, Thomas F., Cleveland, Ohio. Lock. No. 1,401,018; Dec. 20.
Washburn, Fred, deceased; M. A. Washburn, administratrix, New Haven, Conn. Sand-blast device. No. 1,400,585; Dec. 20.
Washburn, Margaret A., administratrix. (See Washburn, Fred.)
Wayne Oil Tank and Pump Company. (See Baker, Linnaeus E., assignor.)
Weaver, Joseph B., and P. Parke, assignors to The Pullman Company, Chicago, Ill. Truck-pedestal. No. 1,400,586; Dec. 20.
Weber, William H., Kokomo, Ind. Attachment for chairs and the like. No. 1,401,019; Dec. 20.
Webster, Ernest C., Chicago, Ill. Electric stopper for fluid-containers. No. 1,400,646; Dec. 20.
Weisford, Leslie W., assignor to J. C. Gates, Melbourne, Victoria, Australia. Machine for making paper bags. No. 1,400,587; Dec. 20.
Welsh, Clyde L., Pittsburgh, Pa. Attachment for printing-presses. No. 1,400,704; Dec. 20.
West Disinfecting Company. (See Marcuse, Moses M., assignor.)
Westbrook, Luther J., Flowery Branch, Ga. Plow. No. 1,401,020; Dec. 20.
Westinghouse Air Brake Company, The. (See Boyden, George A., assignor.)
Westinghouse Air Brake Company, The. (See Dudley, Samuel W., assignor.)
Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
Westinghouse Air Brake Company, The. (See Grosswege, John B., assignor.)
Westinghouse Air Brake Company, The. (See Westinghouse, Henry H., assignor.)
Westinghouse Air Brake Company, The. (See Thomas, Thomas H., assignor.)
Westinghouse Air Brake Company, The. (See Turner, Walter V., assignor.)
Westinghouse Air Brake Company, The. (See Woernley, Harry F., assignor.)
Westinghouse, Henry H., New York, N. Y., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Lubricating device. No. 1,400,647; Dec. 20.
Whitney, Robert H., Jacksonville, Fla. Dilator. No. 1,400,648; Dec. 20.
Wilbur, Frederick H., Binghamton, N. Y., assignor to Reynolds Manufacturing Company, West Toledo, Ohio. Stapling machine for leather loops. No. 1,400,843; Dec. 20.
Willett, Alfred H., West New York, N. J., assignor to American Arch Company, New York, N. Y. Arch-brick. No. 1,401,022; Dec. 20.
Williams, Frank H., Buffalo, N. Y. Crane-hook grab-bucket. No. 1,400,927; Dec. 20.
Williams, Paul F., assignor to G & W Electric Specialty Co., Chicago, Ill. Switching-box. No. 1,401,021; Dec. 20.
Wilson, Cora E., executrix. (See Wilson, John M., assignor.)
Wilson, John M., deceased, Montclair, N. J.; C. E. Wilson, executrix. Composition for cleaning and coating. No. 1,401,023; Dec. 20.
Wilson, Lorain M. (See Scaine, J. R., and Wilson.)
Wilson, William H. (See Land, Charles H., Jr., assignor.)
Winkelmann, Albert, Paris, France. Lock. No. 1,400,588; Dec. 20.
Winter, Henry W., Methuen, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Marking-machine. No. 1,400,708; Dec. 20.
Woernley, Harry F., Pittsburgh, assignor to The Westinghouse Air-Brake Company, Wilmerding, Pa. Weather-protector for couplings. No. 1,400,649; Dec. 20.
Wolf, Austin M., Plainfield, N. J. Cooling and indicating system for internal-combustion engines. No. 1,400,925; Dec. 20.
Wood, E. C. Somerville, and H. J. W. Fay, Westboro, Mass., assignors to Submarine Signal Company, Portland, Me. Diaphragm-mounting. No. 1,401,024; Dec. 20.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Late-news-printing device. No. 1,400,924; Dec. 20.
Wood, William G., assignor to Berkeley Light Corporation, San Francisco, Calif. Headlight. No. 1,400,926; Dec. 20.
Wood, William M., New Brighton, assignor to R. Hoe and Co., New York, N. Y. Blackleading-machine. No. 1,400,589; Dec. 20.
Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
Worthington, Charles C., Dunnfield, N. J. Building-block. No. 1,400,709; Dec. 20.
Worthington Pump and Machinery Corporation. (See Lucke, Charles E., assignor.)
Wright, Charles M. (See Wright, William C. and C. M.)
Wright, Parvin, assignor to A. J. Gerrard, Chicago, Ill. Hand-operated wire-tying machine. No. 1,401,025; Dec. 20.
Wright, William C., Salem, and C. M. Wright, Lisbon, Ohio. Resilient vehicle-wheel. No. 1,400,844; Dec. 20.
Yawman & Erbe Manufacturing Company. (See Yawman, Philip H., assignor.)
Yawman, Philip H., assignor to Yawman & Erbe Manufacturing Company, Rochester, N. Y. Unit metal transfer-cabinet. No. 1,400,710; Dec. 20.
Young, Frank L., San Antonio, Tex. Manhole-form. No. 1,400,927; Dec. 20.
Young, Ray O. See Jenks, C. R., and Young.)
Zajac, Henry, Passaic, N. J. Lamp-extinguisher. No. 1,400,845; Dec. 20.
Zeh, Jesse G., Malden, Mass. Galley end lock. No. 1,400,650; Dec. 20.
Zinsel, George, assignor of one-half to C. H. Moore, Bath, N. Y. Auto-locking device. No. 1,400,928; Dec. 20.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Adam, Harry C., St. Louis, Mo. Lighting-fixture. Nos. 60,000–1; Dec. 20.
Adam, Harry C., St. Louis, Mo. Lighting-fixture body. Nos. 60,002–3; Dec. 20.
Adams, Harry C., St. Louis, Mo. Semi-indirect lighting fixture reflector. No. 60,004; Dec. 20.
Adam, Harry C., St. Louis, Mo. Combined wall-bracket and lamp. No. 60,005; Dec. 20.
Adams, Henry T., assignor to Henry T. Adams Manufacturing Company, Chicago, Ill. Desk-pad corner-clip. No. 60,006; Dec. 20.
Adams, Henry T., Manufacturing Company. (See Adams, Henry T., assignor.)
American Vulcanized Fibre Company. (See Sutton, Claude W., assignor.)
Ashton Valve Company, The. (See Gaston, Charlie, assignor.)
Baldwin, Bernard, Los Angeles, Calif. Match-scratcher. No. 60,007; Dec. 20.
Benedetti, Vincenso, Palmade, N. J. Shoe. No. 60,008; Dec. 20.
Biehl, Bernard, Sr., Newark, N. J., assignor to J. L. Sommer Manufacturing Co. Milk-bottle opener. No. 60,009; Dec. 20.
Bosart Lighting Co. (See Kleinman, Rudolph, assignor.)
Bugbee, Lucian W., assignor to Franklin Optical Company, Indianapolis, Ind. Reading-glass. No. 60,010; Dec. 20.
Church, Howard A., Elkhart, Ind. Aluminum coffee-percolator. No. 60,011; Dec. 20.
Columbia School Supply Company. (See Moore, Jesse C., assignor.)
Cooper, James T., London, England. Stock-retainer for boots and shoes. No. 60,012; Dec. 20.
Cotter, Richard H., Brooklyn, N. Y. Game-board. No. 60,013; Dec. 20.
Curtis & Co. Mfg. Co. (See Steedman, Edwin H., assignor.)
Daudy, Marc H., assignor to North American Lace Company, Philadelphia, Pa. Lace. No. 60,014; Dec. 20.
Davey, Nathan P., St. Louis, Mo. Churn-dasher. Nos. 60,015–16; Dec. 20.
Dodd, William E. (See Forbell, Charles H., assignor.)
Duff Manufacturing Company. (See Kopf, John C., assignor.)
Febrey, Harold H., Newark, N. J. Bookrack. No. 60,017; Dec. 20.
Folts, Stewart P., New Castle, Pa., assignor to H. H. Weinberger, New York, N. Y. Coin or token. No. 60,018; Dec. 20.
Forbell, Charles H., Douglas Manor, assignor to W. E. Dodd, New York, N. Y. Advertising novelty. No. 60,019; Dec. 20.
Franklin Optical Company. (See Bugbee, Lucian W., assignor.)
Gaston, Charlie, Long Run, Ky., assignor to The Ashton Valve Company, Boston, Mass. Pressure-indicating gage. No. 60,020; Dec. 20.
Gray, George W., Seattle, Wash. Display-counter. No. 60,021; Dec. 20.
Grayson, John H., Athens, Ohio. Gas-heater. Nos. 60,022–3; Dec. 20.
Hollister, Dimock W., Philadelphia, Pa., assignor to Harry H. Weinberger, New York, N. Y. Coin or token. No. 60,024; Dec. 20.
Hoodwin, J. W., Company. (See Hoodwin, Joseph W., assignor.)
Hoodwin, Joseph W., assignor to J. W. Hoodwin Company, Chicago, Ill. Ice-cream-cone tray. No. 60,025; Dec. 20.
Howell, Hamilton T., New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Arm for lighting-fixtures. No. 60,026; Dec. 20.
Howell, Hamilton T., New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Cut-out ring. No. 60,027; Dec. 20.
Howell, Hamilton T., New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Candle-cup. No. 60,028; Dec. 20.
Howell, Hamilton T., New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Deep-body shell. No. 60,029; Dec. 20.
Howell, Hamilton T., New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Plate for lighting-fixtures. No. 60,030; Dec. 20.
Jergens, Andrew Company, The. (See Resor, Stanley, assignor.)
Johnstone, Claude, St. Louis, Mo. Doll. No. 60,031; Dec. 20.
Jones, Leander C., Battle Creek, Mich. Toy gas-stove. No. 60,032; Dec. 20.
Kahns, Walter R., assignor to J. H. White Manufacturing Company, Brooklyn, N. Y. Socket-cover. Nos. 60,033–4; Dec. 20.
Kahns, Walter R., assignor to J. H. White Manufacturing Company, Brooklyn, N. Y. Arm-husk for lighting-fixtures. Nos. 60,035–6; Dec. 20.
Kahns, Walter R., assignor to J. H. White Manufacturing Company, Brooklyn, N. Y. Knob for an arm-husk for lighting-fixtures. No. 60,037; Dec. 20.
Kahns, Walter R., assignor to J. H. White Manufacturing Company, Brooklyn, N. Y. Socket cover. No. 60,038; Dec. 20.
kansel, Frank T., Kansas City, Kans. Jewelry—namely, a charm, pin, cuff-button, or article of similar nature. Nos. 60,039–40; Dec. 20.
Kaye, George J., Detroit, Mich. Toy vacuum device. No. 60,041; Dec. 20.
Kepley, Harry H., Philadelphia, Pa. Novelty figure. No. 60,042; Dec. 20.
Kiddie Garment Co. (See Solomon, Jacob, assignor.)
Kleinman, Rudolph, assignor to Bosart Lighting Co., New York, N. Y. Arm for a lighting-fixture. No. 60,043; Dec. 20.
Kopf, John C., Bellevue borough, assignor to Duff Manufacturing Company, Pittsburgh, Pa. Lifting-jack. No. 60,044; Dec. 20.
Kush, Josef, Franklin, Pa. Picture-frame. No. 60,045; Dec. 20.
Lojewski, Saturnin, Schenectady, N. Y. Curtain and shade hanger. No. 60,046; Dec. 20.
McKee Glass Company. (See Sailer, George D., assignor.)
Mayer, Joshua W., New York, N. Y. Ring or similar article. No. 60,047; Dec. 20.
Messina, Samuel, Jamestown, N. Y. Rubber heel. No. 60,048; Dec. 20.
Metallic Industries Inc. (See Tully, James K., assignor.)
Meyers, George J., Council Bluffs, Iowa. Tobacco-pipe reamer. No. 60,049; Dec. 20.
Mohler, Vernie H., Indianapolis, Ind. Doll's head. No. 60,050; Dec. 20.
Moore, Jesse C., assignor to Columbia School Supply Company, Indianapolis, Ind. Chair-desk. No. 60,051; Dec. 20.
Morris, Harry, Chicago, Ill. Display-cabinet. Nos. 60,052–3; Dec. 20.
Morris, Harry, Chicago, Ill. Advertising device. No. 60,054; Dec. 20.
Murray, Thomas E., Jr., Brooklyn, N. Y. Meter-box. No. 60,055; Dec. 20.
North American Lace Company. (See Daudy, Marc H., assignor.)
Oliver, Huldah O., Portland, Oreg. Doll. No. 60,056; Dec. 20.
Packer, Mortimer L., Columbus, Ohio. Gas-heater. No. 60,057; Dec. 20.
Petersen, Frederik, New York, N. Y. Coin-purse. No. 60,058; Dec. 20.
Pieper, Alphonse F. (See Pieper, Oscar H., and A. F.)
Pieper, Oscar H. and A. F., Rochester, N. Y. Standard for X-ray apparatus. No. 60,059; Dec. 20.
Resor, Stanley, New York, N. Y., assignor, by mesne assignments, to The Andrew Jergens Company, Cincinnati, Ohio. Cake of soap. No. 60,060; Dec. 20.
Reznor, George F., Mercer, Pa. Laundry-tub with a cover. No. 60,061; Dec. 20.
Sailer, George D., assignor to McKee Glass Company, Jeannette, Pa. Transparent glass dish. No. 60,062; Dec. 20.
Sharpe, George E., Steubenville, Ohio. Heat-tube for fireplace-heaters. No. 60,063; Dec. 20.
Sheever, Johan, Mineville, N. Y. Anvil. No. 60,064; Dec. 20.
Solomon, Jacob, assignor to Kiddie Garment Co., Inc., New York, N. Y. Child's outer garment. No. 60,065; Dec. 20.
Sommer, J. L., Manufacturing Co. (See Biehl, Bernard, Sr., assignor.)
Steedman, Edwin H., St. Louis, assignor to Curtis & Co. Mfg. Co., Wellston, Mo. Air-compressor casing. No. 60,066; Dec. 20.
Stewart, William L., Worcester, Mass. Lamp. No. 60,067; Dec. 20.
Stone, John H., Cranston, R. I. Clasp. No. 60,068; Dec. 20.
Stuhr, Herman F., Cleveland, Ohio. Holder for smoking-pipes. No. 60,069; Dec. 20.
Sutton, Claude W., assignor to American Vulcanized Fiber Company, Wilmington, Del. Waste-basket or similar article. No. 60,070; Dec. 20.
Tully, James K., assignor to Metallic Industries, Inc., St. Louis, Mo. Child's velocipede. No. 60,071; Dec. 20.

Tully, James K., assignor to Metallic Industries, Inc., St. Louis, Mo. Play-car. No. 60,072; Dec. 20.
Turtle, David, New York, N. Y. Printer's gage. No. 60,073; Dec. 20.
Tweedie, Charles, Jefferson City, Mo. Foot-band. Nos. 60,074–5; Dec. 20.
Van Dommelen, Peter, Grand Rapids, Mich. Combination desk and table. No. 60,077; Dec. 20.
Vathé, Francois, New York, N. Y. Doll. No. 60,076; Dec. 20.
Vester, Alfred, Iowa. (See Howell, Hamline T., assignor.)
Weinberger, Harry H. (See Folts, Stewart P., assignor.)
Weinberger, Harry H. (See Hollister, Dimock W., assignor.)
White, J. H., Manufacturing Company. (See Kahns, Walter R., assignor.)
Willson, Frederick, assignor to Willson Goggles Inc., Reading, Pa. Respirator filter-ring. No. 60,078; Dec. 20.
Willson Goggles Inc. (See Willson, Frederick, assignor.)
Winemiller, Clarence M., Washington, D. C. Stand for flowers. No. 60,079; Dec. 20.
Wise, Benjamin, New York, N. Y. Telephone-receiver attachment. No. 60,080; Dec. 20.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abelardo Queralt, S. en C., Habana, Cuba. Corsets, garters, girdles, bust-confiners &c. No. 149,609; Dec. 20.
Allis-Chalmers Company, Milwaukee, Wis. Comminuting machinery. No. 149,629; Dec. 20.
American Agricultural Chemical Company, New York, N. Y. Fertilizers. No. 149,751; Dec. 20.
American Fork & Hoe Company, The, Cleveland, Ohio, and Fort Madison, Iowa. Certain hand garden implements. No. 149,752; Dec. 20.
American Safety Razor Corporation, Brooklyn, N. Y. Soap. No. 149,623; Dec. 20.
American Oil Company, Providence, R. I. Lubricating-oils, dynamo, screw-cutting, loom, and spindle oil. No. 149,631; Dec. 20.
American Purchasing Corporation, Ltd., Toronto, Ontario, Canada, and New York, N. Y. Certain table and bed linen, towels, carpets, tapestries. No. 149,632; Dec. 20.
Automobiles, Rear-view mirrors for. Sargent Company. No. 149,720. Dec. 20.
Baer & Wilde Co., The, Attleboro, Mass. Cuff-buttons. No. 149,703; Dec. 20.
Baker, Geo. A. Sons, Brockton, Mass. Clenching-nails. No. 149,634; Dec. 20.
Baker, George W., Dallas, Tex. Shoe and leather polish. No. 149,635; Dec. 20.
Baker, R & L, Company, The, Cleveland, Ohio. Electric controllers. No. 149,754; Dec. 20.
Barbour Brothers Company, The, Paterson, N. J. Linen thread. No. 149,755; Dec. 20.
Bayne Manufacturing Company, Bushnell, Ill. Certain vehicle parts and accessories. No. 149,636; Dec. 20.
Beanmont Cotton Oil Mill Co., Dallas, Tex. Feed for horses, mules, cattle, hogs, and poultry. No. 149,637; Dec. 20.
Beldam, George W., London, England. Rubber sponges. No. 149,638; Dec. 20.
Bencoe Exporting and Importing Co. Inc., New York, N. Y. Sheetings. No. 149,639; Dec. 20.
Blodgett, G. S., Company, Inc., The, Burlington, Vt. Bake-ovens. Nos. 149,640-1; Dec. 20.
Blunden-Lyon Company, The, Chicago, Ill. Printing-paper. No. 149,642; Dec. 20.
Boston Belting Corporation, Boston, Mass. Mechanical rubber goods. No. 149,643; Dec. 20.
Bradley Pulverizer Co., Boston, Mass. Grinding and pulverizing mills. No. 149,750; Dec. 20.
Bruder, Edmund, Chicago, Ill. Game-board, game-indicator, game-counter, &c. No. 149,644; Dec. 20.
Bryden Horse Shoe Co., Catasauqua, Pa. Horseshoes and horseshoe-calks. No. 149,645; Dec. 20.
Butler Brothers, Chicago, Ill. Gloves of fabric and leather. No. 149,646; Dec. 20.
Burton & Skinner Printing and Stationery Company, St. Louis, Mo. Writing-inks, typewriter ribbons, and inking-pads. No. 149,647; Dec. 20.
Carolina Remedies Company, Union, S. C. Veterinary preparations. No. 149,648; Dec. 20.
Caskey-Dupree Mfg. Co., The, Marietta, Ohio. Sashes and frames for certain named purposes. No. 149,757; Dec. 20.
Caulk, L. D., Company, The, Milford, Del. Porcelain used for filling teeth and for making dental facings, crowns, and window inlays. No. 149,758; Dec. 20.
Caulk, L. D., Company, The, Milford, Del. Certain chemicals and chemical preparations. No. 149,759; Dec. 20.
Cheney, Henry, Hammer Corporation, Little Falls, N. Y. Hammers and wrenches. No. 149,649; Dec. 20.
Chesnutt, Cooper & Co., London, England. Bristles. No. 149,650; Dec. 20.
City Mills Company, Columbus, Ga. Self-rising wheat-flour. No. 149,651; Dec. 20.
Coast Tire and Rubber Company, Oakland, Calif. Rubber tires. No. 149,652; Dec. 20.
Collins, A. M., Manufacturing Company, Philadelphia, Pa. Publications issued monthly. No. 149,653; Dec. 20.
Cooper, Coate & Caney Dry Goods Co., Los Angeles, Calif. Bleached muslin in the piece, sheets, pillow-cases. No. 149,654; Dec. 20.
Cooke, Thomas G., Chicago, Ill. Printed booklets and pamphlets. Nos. 149,760-1; Dec. 20.
Crush Brick Company, Sulphur Springs, Tex. Fire-brick, hollow building tile, face-brick, &c. No. 149,655; Dec. 2.
Dallam, F. B., San Francisco, Calif. Old newspapers. No. 149,656; Dec. 20.
Davis and Ford, Chicago, Ill. Cardboard and pictorial toys for teaching children simple words. No. 149,657; Dec. 20.
De Forrest, Sara V., New York, N. Y. Varnishes—namely, bronzing liquid, asphaltum varnish, and japan driers. No. 149,658; Dec. 20.
Delano, Potter and Co. Inc., Boston, Mass. Tea. No. 149,763; Dec. 20.
Des Moines Tent & Awning Company, Des Moines, Iowa. Tents and tent-sheds. No. 149,659; Dec. 20.
Detroit Beef Company, Detroit, Mich. Butter and eggs. No. 149,660; Dec. 20.
Dispatch Publishing Company, The, Pittsburgh, Pa. Newspaper-section. Nos. 149,661-2; Dec. 20.
Doane, Glendon B., Boston, Mass. Tool and machine handles and ferrules. No. 149,663; Dec. 20.
Dodson, J. G., Atlanta, Ga. Medicinal tablet for certain purposes. No. 149,764; Dec. 20.
Du-Rite Products Co., New York, N. Y. Liquid preparation for polishing finished surfaces. No. 149,664; Dec. 20.
Eastlite Electric Company, Louisville, Ky. Unitary electric-light plants. No. 149,665; Dec. 20.
Egan and Hausman Company Inc., Brooklyn, N. Y. Varnishes. No. 149,666; Dec. 20.
Ely, William, Providence, R. I. Machines for washing, pickling, and drying metal parts, dust-collecting and tubbing machines. No. 149,765; Dec. 20.
Engel, H., & Sons, New York, N. Y. Handkerchiefs. No. 149,668; Dec. 20.
Ephraimson, J., Bradford, England. Animal hair or wool for making wigs and other similar articles. No. 149,667; Dec. 20.
Evan's, L. B., Sons Company, Wakefield, Mass. Men's, women's, and children's shoes, slippers, and oxfords. No. 149,766; Dec. 20.
Fairbanks Co., New York, N. Y. Unloading and commercial trucks and car-bodies. No. 149,269; Dec. 20.
Fair, The, Chicago, Ill. Leather shoes. Nos. 149,767–8; Dec. 20.
Falls City Buggy Top Company, Louisville, Ky. Automobile tops, radiator-covers, curtains, and cushions. No. 149,670; Dec. 20.
Fayetteville Ice and Mfg. Co., Fayetteville, N. C. Ice-cream. No. 149,769. Dec. 20.
Federal Rubber Company, The, Cudahy, Wis. Repair gums, rubber cement made wholly or partly of rubber. Nos. 149,671–3; Dec. 20.
Fletcher-Wickes Co., Chicago, Ill. Reproducers and tone-arms for phonographs. No. 149,770; Dec. 20.
Frick Company, Waynesboro, Pa. Threshing machinery, sawmills, steam-engines, &c. No. 149,674; Dec. 20.
Gahan Baking Company, Worcester, Mass. Doughnuts. No. 149,675; Dec. 20.
Gale, Beresford, Philadelphia, Pa. Electrically-heated combs. No. 149,771; Dec. 20.
Game-Downs Clothing Company, The, Denver, Colo. Men's suits and overcoats. No. 149,774; Dec. 20.
Gilman Bros. Inc., Boston, Mass. Hair-nets and handkerchiefs. No. 149,676; Dec. 20.
Glaser, Crandell Co., Chicago, Ill. Fruit preserves, pickled vegetables, relishes, oils, &c. No. 149,775; Dec. 20.
Goldstein, Joseph A., New York, N. Y. Ladies' wearing apparel. No. 149,776; Dec. 20.
Goodrich, B. F., Company, The, New York, N. Y. Certain tires and non-adhesive rubber sheets for repairing tires. No. 149,777; Dec. 20.
Graham Bros. Soap Co., Chicago, Ill. Toilet soap. No. 149,778; Dec. 20.
Halstead Specialties Co., San Francisco, Calif. Lubricant and squeak cure with incidental properties as a rust preventive. No. 149,781; Dec. 20.
Hampden Glazed Paper & Card Co., Holyoke, Mass. Cover-paper. No. 149,677; Dec. 20.
Harem Candy Co., New York, N. Y. Candy in boxes. No. 149,678; Dec. 20.
Haas, Abraham, New York, N. Y. Shoes. No. 149,779; Dec. 20.
Heller Leather Company, The, Milwaukee, Wis. Leather gloves. No. 149,780; Dec. 20.
Herink, Charles A., New York, N. Y. Coffee. No. 149,679; Dec. 20.
Holycross, Cloyd B., Dayton, Ohio. External preparation for diseases of the skin. No. 149,782; Dec. 20.
Howell, Henry, & Company Limited, London, England. Walking sticks and canes, umbrella sticks and handles, &c. No. 149,783; Dec. 20.
Inderlieden Canning Co., Chicago, Ill. Canned vegetables. No. 149,680; Dec. 20.
Jacobsen Manufacturing Company, Racine, Wis. Lawn-mowers. No. 149,681; Dec. 20.
Jefferson Forge Products Company, The, Detroit, Mich. Steel drop-forgings. No. 149,682; Dec. 20.
Joggers Manufacturing Co., Berkeley, Calif. Flat wood toy figures. No. 149,684; Dec. 20.
Katz, Nathan U., Camden, N. J. Candies. No. 149,686; Dec. 20.
Kay, Bernard, New York, N. Y. Imitation-leather material. No. 149,685; Dec. 20.
Kestenman Bros. Mfg. Co., Providence, R. I. Lingerie-clasps. No. 149,784; Dec. 20.
Kimbell, William A., Atlanta, Ga. Preparation for relief of headache, neuralgia, &c. No. 149,687; Dec. 20.
Kingan & Co. Incorporated, Indianapolis, Ind. Poultry feed. No. 149,785; Dec. 20.
King Refractories Corporation, Buffalo, N. Y. Hydraulic and high-temperature cement. No. 149,688; Dec. 20.
Kingsbury Corporation, Chicago, Ill. Corrosion, acid, and gas proof paint for smokestacks, water-tanks, pipes, &c. No. 149,689; Dec. 20.

Kinzie Rubber & Manufacturing Co., Chicago, Ill. Rubber sheetings. No. 149,788; Dec. 20.
Klingwall, Gottlieb L. E., Omaha, Nebr. Child's educational and amusement appliances. No. 149,689; Dec. 20.
Knickerbocker Case Company, Chicago, Ill. Edge made of leather, wood, &c., for folding merchandise samples, &c. No. 149,787; Dec. 20.
Kraft, J. L., & Bros. Co., Chicago, Ill. Cheese, and marmoreal and cheese. No. 149,705; Dec. 20.
Krause, Chas. A., Milling Co., Greenfield, Wis. Cracked corn for poultry food, known as scratch feed. No. 149,691; Dec. 20.
Krupnick, Ellis G., Baltimore, Md. Tooth-paste. No. 149,790; Dec. 20.
Kuppens, Incorporated, New York, N. Y. Knitted. No. 149,692; Dec. 20.
Lawrence Chemical Co., Marietta, Ohio. Flavorings for food. No. 149,693; Dec. 20.
Levinson Textile Co., Inc., New York, N. Y. Cotton piece goods. No. 149,694; Dec. 20.
Liberty Paint Co., Inc., New York, N. Y. Putty. No. 149,695; Dec. 20.
Livingston, Jefferson, Chicago, Ill. Tomato-washing machine. No. 149,791; Dec. 20.
Makepeace, B. L., Incorporated, Boston, Mass. Photo-lithographic prints. No. 149,792; Dec. 20.
Manufacturing Company of America, Philadelphia, Pa. Candy. No. 149,698; Dec. 20.
Marburg Brothers, Inc., New York, N. Y. Certain vehicles, parts, and accessories. No. 149,697; Dec. 20.
Marshall-Wells Company, Duluth, Minn. Fishing lines, rods, and reels. No. 149,699; Dec. 20.
Mead Johnson & Co., Evansville, Ind. Preparation of the casein of milk used to increase the protein of diets. No. 149,683; Dec. 20.
Michigan Wire Goods Co., Niles, Mich. Doll beds and cribs. No. 149,699; Dec. 20.
Migel, J. A., Inc., New York, N. Y. Broad silks in the piece. No. 149,700; Dec. 20.
Milwaukee Auto Engine & Supply Company, Milwaukee, Wis. Automobile-bumpers. No. 149,701; Dec. 20.
Minerva Motors, Antwerp, Belgium. Transmission apparatus and explosion-motors for motor-cars, &c. No. 149,702; Dec. 20.
Minerva Motors, Antwerp, Belgium. Automobiles, and chassis for automobiles, bicycles, and aeroplanes. No. 149,703; Dec. 20.
Morrison, Benjamin R., Wilmington, N. C. Sanitary receptacles for tooth-brushes. No. 149,704; Dec. 20.
Mundy, J. S., Hoisting Engine Co., Newark, N. J. Certain hoists, engines, winches, &c. No. 149,705; Dec. 20.
Murdock, C. A., Mfg. Co., Kansas City, Mo. Coffee, spices, mustard, fruit flavoring extracts—namely, lemon. No. 149,706; Dec. 20.
National Biscuit Company, New York, N. Y. Biscuit, crackers, and cake. No. 149,707; Dec. 20.
National Biscuit Company, New York, N. Y. Biscuit and crackers. No. 149,708; Dec. 20.
Newark Tortoise Shell Novelty Co., Newark, N. J. Hair-receivers, bottle-holders, salve-jars, pin-boxes, and pin-trays. No. 149,710; Dec. 20.
News Syndicate Co., Inc., New York, N. Y. Newspapers published in the city of New York. No. 149,711; Dec. 20.
Neversllp Manf. Co., The, New Brunswick, N. J. Horse-shoes and horseshoe-calks. No. 149,709; Dec. 20.
Nonotuck Silk Company, Northampton, Mass. Piece goods of silk, &c. No. 149,712; Dec. 20.
Old Town Canoe Company, Old Town, Me. Certain boats and parts thereof. No. 149,793; Dec. 20.
Osann, Frederick, Company, New York, N. Y. Sewing, fur-beating, and cloth-cutting machines and parts thereof and machine-needles. No. 149,771; Dec. 20.
Perkins, A. E., Jr., Baltimore, Md. Candy. No. 149,713; Dec. 20.
Peter Cailler Kohler Swiss Chocolates Co., Inc., New York, N. Y. Milk chocolates and cocoa. No. 149,788; Dec. 20.
Philadelphia Operative Builders Association, Philadelphia, Pa. Monthly periodical. No. 149,714; Dec. 20.
Plaut, L. S., & Co., Newark, N. J. Yard goods used in bedspreads, sheets, and related cotton goods. No. 149,715; Dec. 20.
Prator, Ernest P., Leper, Mo. Cutting and welding torches. No. 149,794; Dec. 20.
Premier Malt Products Co. of Ohio, Inc., Steubenville, Ohio. Malt syrup used for food purposes. No. 149,716; Dec. 20.
Protectoglare Co., The, Los Angeles, Calif. Glare-shields attachable to front of automobile-tops. No. 149,717; Dec. 20.
Queen Incubator Company, Lincoln, Nebr. Chicken incubators, brooders, and galvanised covers. No. 149,718; Dec. 20.
Rainbow Lawn Sprinkler Company, Jacksonville, Fla. Lawn-sprinklers. No. 149,719; Dec. 20.
Raymotive Company, The, Bridgeport, Conn. Brake-linings. No. 149,795; Dec. 20.
Rechtschaffen Embroidery Company, Inc., Chicago, Ill. Embroideries or embroidered articles. No. 149,720; Dec. 20.
Reed, Albert F., Penn township, Pa. Hides. No. 149,796; Dec. 20.
Reinhart, K., Newark, N. J. Extract of vanilla for food flavoring. No. 149,721; Dec. 20.
Reiss Premier Fuse Company, Chicago, Ill. Kneeling-pipes, cigar and cigarette holders, and smokers' articles. No. 149,722; Dec. 20.
Resinite Corporation, New York, N. Y. Dried, ready-mixed, and paste paints, varnish, &c. No. 149,723; Dec. 20.
Richter, Gustav F., Brooklyn, N. Y. Mouth-gags. No. 149,797; Dec. 20.
Rix Manufacturing Company, Dayton, Ohio. Water-softener. No. 149,718; Dec. 20.
Rosenberg, Hugo, Freiburg, (Baden), Germany. Tuberculose-vaccin. No. 149,799; Dec. 20.
Rosenfield, Joseph A., Philadelphia, Pa. Pattern-marking machines. No. 149,724; Dec. 20.
Roth Coal Company, Inc., The, New York, N. Y. Coal. No. 149,725; Dec. 20.
Rue, Ulysses G., Jr., Philadelphia, Pa. Salve for skin disease. No. 149,800; Dec. 20.
Samoset Chocolates Company, Boston, Mass. Candy. Nos. 149,726–8; Dec. 20.
Sargent Company, Chicago, Ill. Rear-view mirrors for automobiles. No. 149,729; Dec. 20.
Sauer, C. F., Company, The, Richmond, Va. Food-flavoring extracts. No. 149,730; Dec. 20.
Schmidt, E., Company, Indianapolis, Ind. Dental, surgical, and surgical appliances. No. 149,801; Dec. 20.
Schwarze Electric Company, Adrian, Mich. Electric horns. No. 149,731; Dec. 20.
Security Cement & Lime Co., Hagerstown, Md. Calcareous composition for soil improvement. No. 149,732; Dec. 20.
Sedberry, James B., Texarkana, Ark. Agricultural and milling machinery consisting of feed-mills, grinding-mills, &c. No. 149,733; Dec. 20.
Shattock, Clifford, Detroit, Mich. Valve-grinding compound. No. 149,734; Dec. 20.
Sheldon Axle & Spring Co., Wilkes-Barre, Pa. Springs for vehicles. No. 149,735; Dec. 20.
Sherwood Shoe Company, Rochester, N. Y. Shoes made of leather, rubber, fabric, or a combination of the same. No. 149,802; Dec. 20.
Sociedad Anónima "Romeo y Julieta," Fábrica de Tabacos, Habana, Cuba. Cigars. No. 149,803; Dec. 20.
Standard Oil Company, San Francisco, Calif. Flushing-oil. No. 149,736; Dec. 20.
Star Oil Company, The, Chicago, Ill. Lubricating oils and greases. No. 149,803; Dec. 20.
Stork, Chas. T., and Co., Inc., New York, N. Y. Condensed milk. No. 149,737; Dec. 20.
Stroud, Samuel L., Oakland, Calif. Grass rugs. No. 149,738; Dec. 20.
Summerfield Company, Boston, Mass. Certain household furniture. No. 149,739; Dec. 20.
Superior Sheet Steel Company, The, Louisville, Ohio. Rolled steel in various forms and finishes. No. 149,740; Dec. 20.
Superior Underwear Company, The, Piqua, Ohio. Union suits, combination suits, undershirts, and underdrawers. No. 149,804; Dec. 20.
Swartts, M., & Sons, Philadelphia, Pa. Men's and young men's coats, vests, trousers, and overcoats. No. 149,805; Dec. 20.
Tafbe & Bellion, New York, N. Y. Raw coffee. Nos. 149,741–2; Dec. 20.
Taylor Tamale Company, Los Angeles, Calif. Chilli sauce, chilli-con-carne with frijoles, boneless Spanish chicken tamales, &c. No. 149,743; Dec. 20.
United Publishing Company, Kansas City, Mo. Monthly magazine. No. 149,744; Dec. 20.
United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Certain boot and shoe machines and tools. No. 149,745; Dec. 20.
Walter, Charles A., Anna, Ill. Liquid preparation for removing old varnish, wax, dirt, grease, &c. No. 149,746; Dec. 20.
Webber, Charles H., Portland, Oreg. Sectional garages and houses. No. 149,806; Dec. 20.
Weelch, Albert, New York, N. Y. Malt extracts. No. 149,747; Dec. 20.
Williamson & Bright, Chuckey, Tenn. Laxative medicine. No. 149,807; Dec. 20.
Wills, C. H., & Company, Marysville, Mich. Automobiles. No. 149,748; Dec. 20.
Winchester Repeating Arms Co., New Haven, Conn. Ice and roller skates. No. 149,749; Dec. 20.
Young & Griffin Coffee Co. Inc., New York, N. Y. Roasted coffee. No. 149,750; Dec. 20.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Apex Paper Manufacturing Company, Inc., New Orleans, La. "Camel Brand." (For Toilet-Paper.) No. 23,787; Dec. 20.
Apex Paper Manufacturing Company, Inc., New Orleans, La. "Superior Service." (For Paper Towelling.) No. 23,788; Dec. 20.
Apex Paper Manufacturing Company, Inc., New Orleans, La. "Lion Brand." (For Toilet-Paper.) No. 23,789; Dec. 20.
Apex Paper Manufacturing Company, Inc., New Orleans, La. "Keno." (For Toilet-Paper.) No. 23,790; Dec. 20.
Baper & Black, Chicago, Ill. "The Tiny Tot Soap." (For Soap.) No. 23,791; Dec. 20.
Bernhart, Reuben Y., Toledo, Ohio. "Dated Coffee." (For Coffee.) No. 23,792; Dec. 20.
Berville, Alfred S., Jacksonville, Fla. "Clover Leaf Bakery." (For Bread.) No. 23,793; Dec. 20.
Bowk-Donaldson-Taylor Fruit Company, The, Denver, Colo. "Extra Select Diamond Brand." (For Boxes of Oranges.) No. 23,794; Dec. 20.
Brunk, Mary V., Kansas City, Mo. "B. C. C. B." (For Caps, Hats, and Bonnets and Containers Therefor.) No. 23,795; Dec. 20.
Cohen, Syma, Chicago, Ill. "Lady Esther." (For Face-Powder.) No. 23,796; Dec. 20.
Dairymen's League Co-Operative Association, Inc., Utica, N. Y. "Dairymen's League Evaporated Milk." (For Evaporated Milk.) No. 23,797; Dec. 20.
Dairymen's League Co-Operative Association, Inc., Utica, N. Y. "Dairymen's League Butter." (For Butter.) No. 23,798; Dec. 20.
Dairymen's League Co-Operative Association, Inc., Utica, N. Y. "Dairymen's League Sweetened Condensed Milk." (For Condensed Milk.) No. 23,799; Dec. 20.
First National Pharmacy, Lehighton, Pa. "First National Beauty Complexion Wafers." (For Packages Containing a Medicine for Treatment of Boils, Pimples, Blackheads, &c., Due to Constipation.) No. 23,800; Dec. 20.
Frankel & Smith, Inc., Boston, Mass. "Professional." (For Hair-Nets.) No. 23,801; Dec. 20.
Green and Green Company, The, Dayton, Ohio. "Green & Green Chees-It Crackers." (For Cartons in Which Cheese Crackers are Placed.) No. 23,804; Dec. 20.
Hannah, P. J., San Francisco, Calif. "Hannah's Tablets." (For Dyspepsia Tablets.) No. 23,802; Dec. 20.
Hellm, B. & Co., Chicago, Ill. "Ozo Washing Powder." (For Receptacles Containing Ozo Washing-Powder.) No. 23,803; Dec. 20.
Hochschild Corporation, Chicago, Ill. "Wearbest." (For Hair-Nets.) No. 23,805; Dec. 20.
Lindsay-Strathmore Pomegranate Ass'n, Lindsay, Calif. "Lindsay Strathmore." (For Pomegranates.) No. 23,806; Dec. 20.
Lindsay-Strathmore Pomegranate Ass'n, Lindsay, Calif. "Ruby Red." (For Pomegranates.) No. 23,807; Dec. 20.
Macy, R. H., & Co., Inc., New York, N. Y. "Couverlain." (For Guaranteed All-Wool Blankets.) No. 23,808; Dec. 20.
McKeag, Henry S., Montclair, N. J. "Knicker Kloth." (For Linen Cloth.) No. 23,809; Dec. 20.
Metzner, H. & G., Albany, N. Y. "New York Sheep Exhibition Cigar." (For Cigars.) No. 23,810; Dec. 20.
Miller Bros., New Orleans, La. "Square Deal Jewelers." (For Watches, Jewelry, and Diamonds.) No. 23,811; Dec. 20.
Milwaukee Paper Box Company, Milwaukee, Wis. "Family Cup-Board." (For Boxes Containing Candy.) No. 23,812; Dec. 20.
Milwaukee Paper Box Company, Milwaukee, Wis. "Greysolon." (For Boxes Containing Assorted Chocolates.) No. 23,813; Dec. 20.
Mutual Orange Distributors, Redlands, Calif. "Sunflower." (For Oranges.) No. 23,814; Dec. 20.
New England Confectionery Company, Boston, Mass. "Necco Sweets." (For Candy.) No. 23,815; Dec. 20.
Nuss Confectionery Co., The, Cincinnati, Ohio. "Nuss Butter Cream Specialties." (For Cream Confections.) Nos. 23,816–S; Dec. 20.
Penn Brass Manufacturing Co., Cleveland, Ohio. "Penn." (For Receptacles Containing Brass Goods.) No. 23,819. Dec. 20.
Phillippe, Edward C., Webster Grove, Mo. "Tri-A Mint." (For Candy Confections.) No. 23,820; Dec. 20.
Purity Cream Cheese Company, The, Cleveland, Ohio. "Imported Liptauer." (For Brindza Cheese, Otherwise Known as Imported Liptauer or Sheep-Milk Cheese.) No. 23,821; Dec. 20.
Rasadas, Georgie L., Brooklyn, N. Y. "Goody-Mints Candy." (For Candy.) No. 23,822; Dec. 20.
Real Silk Hosiery Mills, Indianapolis, Ind. "Dear Customer: Here Are Suggestions for the Care of Real Silk Hose." (For Containers for Hosiery.) No. 23,823; Dec. 20.
Real Silk Hosiery Mills, Indianapolis, Ind. "Dear Customer: Here Are Suggestions for the Care of Real Silk Fashioned Hosiery." (For Containers for Hosiery.) No. 23,824; Dec. 20.
Real Silk Hosiery Mills, Indianapolis, Ind. "C. O. D." (For Containers for Hosiery.) No. 23,825.
Robinson, Edward D., Baltimore, Md. "Fedeco." (For Containers for Hair-Tonic.) No. 23,826; Dec. 20.
Robinson, Edward D., Baltimore, Md. "Fedeco." (For Containers for Cocoanut Oil Shampoo.) No. 23,827; Dec. 20.
Saniwax Paper Co., Kalamazoo, Mich. "Harvest Queen." (For Bread.) No. 23,828; Dec. 20.
Scranton Drug Mfg. Co., Scranton, Pa. "Pep Vino." (For Bottle as a General Tonic.) No. 23,829; Dec. 20.
Solvos Company, The, New York, N. Y. "Knickerette." (For a Sanitary Bloomer-Protector.) No. 23,830; Dec. 20.
Southern Cotton Oil Company, The, Jersey City, N. J. "You'll Do Better Painting with Sco-Co." (For Dry Paints, Paste Paints, and Ready-Mixed Paints.) No. 23,831; Dec. 20.
Southern Cotton Oil Company, The, Jersey City, N. J. "Made to Wear Where the Wear Is Hardest." (For Dry Paints, Paste Paints, and Ready-Mixed Paints.) No. 23,832; Dec. 20.
Stoll & Edwards Co. Inc. "The House That Jack Built." (For Boxes Containing Doll-Houses.) No. 23,833; Dec. 20.
Wilhelm, Henry, Co., Pittsburgh, Pa. "Nuprocess." (For Moss for Upholstering Purposes.) No. 23,834; Dec. 20.
Wilhelm, Henry, Co., Pittsburgh, Pa. "Luxfibre." (For Moss for Upholstering Purposes.) No. 23,835; Dec. 20.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

American Tobacco Company, The, New York, N. Y. "Frank Bacon Takes to Omar." (For Advertising Purposes for Cigarettes.) No. 5,878; Dec. 20.
American Tobacco Company, The, New York, N. Y. "Tom Mansen Hokding an Omar." (For Advertising Purposes for Cigarettes.) No. 5,879; Dec. 20.
American Tobacco Company, The, New York, N. Y. "Raymond Hitchcock's Hand Holding an Omar." (For Advertising Purposes for Cigarettes.) No. 5,880; Dec. 20.
American Tobacco Company, The, New York, N. Y. "William S. Hart Holds an Omar." (For Advertising Purposes for Cigarettes.) No. 5,881; Dec. 20.
American Tobacco Company, The, New York, N. Y. "Leo Ditrichstein Holds an Omar." (For Advertising Purposes for Cigarettes.) No. 5,882; Dec. 20.
American Tobacco Company, The, New York, N. Y. "Leon Erroll Holds His Omar Like This." (For Advertising Purposes for Cigarettes.) No 5,883; Dec. 20.
Crosby, John B., Lake Bluff, Ill. "Layerwood." (For Advertising Purposes for Plywood and Wood Veneers.) No. 5,884; Dec. 20.
Genesee Pure Food Company, The, Le Roy, N. Y. "The Parish Poster." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 5,885; Dec. 20.
Genesee Pure Food Company, The, Le Roy, N. Y. "The Ranch Scene." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 5,886; Dec. 20.
Genesee Pure Food Company, The, Le Roy, N. Y. "The Bear Scene." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 5,887; Dec. 20.
Genesee Pure Food Company, The, Le Roy, N. Y. "The New England Scene." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 5,888; Dec. 20.
Haynes Automobile Company, The, Kokomo, Ind. "The Crowning Achievement of America's Oldest Automobile Manufacturers." (For Advertising Purposes for Automobiles.) No. 5,889; Dec. 20.
Kellogg Toasted Corn Flake Co., Battle Creek, Mich. "They Never Tire of Corn Flakes When You Give Them—Kellogg's." (For Advertising Purposes for Kellogg's Toasted Corn Flakes.) No. 5,890; Dec. 20.
Kronberger, Alfred M., Boston, Mass. "Corns Hurt." (For Advertising Purposes for Also Liquid Preparation to Remove Corns.) No. 5,891; Dec. 20.
National Carbon Co., Inc., Cleveland, Ohio. "Powerful Dependable, Worthy of the Name." (For Advertising Purposes for Columbia Storage Batteries.) No. 5,892; Dec. 20.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Yes, Sir. You'll Say a Fine Packed with P. A. Has 'Em All Backed Clear Off the Map!" (For Advertising Purposes for Smoking-Tobacco.) No. 3,894; Dec. 20.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "And Say—Where That P. A. Flavor Gets to Purring to Your Smoke-Appetite." (For Advertising Purposes for Smoking-Tobacco.) No. 3,895; Dec. 20.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Get a Pipe! Get Some P. A.!—and Get Yours!" (For Advertising Purposes for Smoking-Tobacco.) No. 3,897; Dec. 20.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "First Thing You Do Next—" (For Advertising Purposes for Smoking-Tobacco.) No. 3,898; Dec. 20.

Schrader's, A., Son, Incorporated, New York, N. Y. "Don't Let Your Tires Go This Way." (For Advertising Purposes for Tire-Pressure Gages.) No. 3,907; Dec. 20.

Scott Paper Company, Chester, Pa. "Viskets Fibre." (For Advertising Purposes for Paper Towels and Paper Napkins.) No. 3,899; Dec. 20.

Scott Towel Service, Inc., Philadelphia, Pa. "Prosper By a Day." (For Advertising Purposes for Soap.) No. 3,900; Dec. 20.

Whitman, F. D., Cupertino, Calif. "'A Have Praise' Cupertino Bread." (For Advertising Purposes for Bread.) No. 3,909; Dec. 20.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abbott Shoe Company, North Reading, Mass. Boots, shoes, and slippers. No. 147,756; Dec. 20.

Accumulatoren-Fabrik Aktiengesellschaft, Berlin, Germany. Electric accumulators and parts thereof. Nos. 150,552–3; Dec. 20.

Aktiebolaget Gerh. Arvins Mekaniska Verkstad, Stockholm, Sweden. Packing machines for tobacco and cigarettes, envelop and bag machines &c. No. 145,344; Dec. 20.

American Chemical Paint Company, Philadelphia, Pa. Barrels with sheet-rubber linings. No. 143,510; Dec. 20.

American Lady Corset Co., Detroit, Mich. Corsets, brassières, corset-waists, corset-covers, hose-supporters, &c. No. 148,840; Dec. 20.

American Paint & Putty Co., Inc., Boston, Mass. Ready-mixed and paste paint. No. 141,345; Dec. 20.

Andrews, Frank M., Battle Creek, Mich. Violins, cellos, ukuleles, &c. No. 151,603; Dec. 20.

Aro Tractor Company, The, Minneapolis, Minn. Tractors and pumps. No. 152,054; Dec. 20.

Art Craft Fixture Co., Newark, N. J. Electric lighting fixtures. No. 143,246; Dec. 20.

Arto Co., The, Orange, N. J. Talking-machine records and music-rolls. No. 143,490; Dec. 20.

Atlanta Barbers' Supply Co., Atlanta, Ga. Perfumery, toilet water, face-powder, &c. No. 142,194; Dec. 20.

Atlantic Refining Company, The, Philadelphia, Pa. Medicinal oils derived from petroleum, petrolatums, &c. No. 148,688; Dec. 20.

Atlantic Southwestern Broom Co., Baltimore, Md. Brooms. No. 142,464; Dec. 20.

Atlantic Southwestern Broom Co., Baltimore, Md. Brooms. No. 142,466; Dec. 20.

Austin, Frank J., Philadelphia, Pa. Tooth-paste, astringent lotions, and washes for the teeth and mouth. No. 144,061; Dec. 20.

Bahnsen, C., & Co. Inc., New York, N. Y. Wool-corduroy piece goods. No. 155,146; Dec. 20.

Bahnsen, C., & Co. Inc., New York, N. Y. Wool-velour coating piece goods. Nos. 155,141–2; Dec. 20.

Bahnsen, C., & Co. Inc., New York, N. Y. Wool-velour coating piece goods. No. 155,145; Dec. 20.

Bahnsen, C., & Co. Inc., New York, N. Y. Wool-velour coating piece goods. No. 155,148; Dec. 20.

Bahnsen, C., & Co. Inc., New York, N. Y. Wool-velour coating piece goods. Nos. 155,150–1; Dec. 20.

Bahnsen, C., & Co. Inc., New York, N. Y. Wool-velour coating piece goods. No. 155,154; Dec. 20.

Baker-Poston-Hemphill & Co., Fort Worth, Tex. Flannel shirts. No. 136,020; Dec. 20.

Barker, Stanley E., Seattle, Wash. Asthma sera. No. 158,041; Dec. 20.

Barraquer, Barraquer, Ignacio, Barcelona, Spain. Apparatus for the complete extraction of cataract. No. 150,506; Dec. 20.

Benson, Warren E., Marietta, Ga. Preparation for treatment of nausea, vomiting, &c. No. 153,500; Dec. 20.

Berlinger, Phil, & Co., New York, N. Y. Ladies' hats. No. 131,553; Dec. 20.

Biffar, Fred, Chicago, Ill. Pocket-knives. Nos. 120,537–8; Dec. 20.

Blaisdell Pencil Company, Philadelphia, Pa. Lead pencils, mechanical pencils, rubber and soap erasers, &c. Nos. 154,635–6; Dec. 20.

Bloch Bros. Tobacco Co., The, Wheeling, W. Va. Cigarettes. No. 141,249; Dec. 20.

Bloch Bros. Tobacco Co., The, Wheeling, W. Va. Cigarettes. No. 141,685; Dec. 20.

Bob & Baskind, New York, N. Y. Men's shirts and boys' shirts and blouses. No. 148,823; Dec. 20.

Boller, Peter, Machine Works, Chicago, Ill. Mop-wringers. No. 142,585; Dec. 20.

Bond, John Tailoring Co., Denver, Colo. Coats, trousers, vests, overcoats. No. 142,814; Dec. 20.

Borden Company, The, Warren, Ohio. Steel-bar handles for tools. No. 137,[illegible]; Dec. 20.

Borgenich, Louis, New York, N. Y. Children's and misses' dresses. No. 148,867; Dec. 20.

Brown & Bigelow, St. Paul, Minn. Pencils, leads, and erasers. No. 155,630; Dec. 20.

Brown Durrell Co., Boston, Mass. Shirts, bath-robes, gloves, &c. No. 141,470; Dec. 20.

Bruse, Potthoff & Co., New York, N. Y. Cotton piece goods. No. 151,902; Dec. 20.

Bruse, Potthoff & Co., New York, N. Y. Cotton piece goods. No. 151,904; Dec. 20.

Bukowski, Emil, Whitestone, N. Y. Blood salt nutritive. No. 153,429; Dec. 20.

Burns-Pollock Electric Manufacturing Company, Indiana Harbor, Ind. Phonographs and phonograph-records. No. 153,712; Dec. 20.

Carew & Ohlweiler Co., Rock Island, Ill. Maltless nonalcoreal beverage. No. 152,542; Dec. 20.

Chicago Fountain Soda Water Company, The, Chicago, Ill. Nonintoxicating, fruit beverage and syrups for making same. No. 152,545; Dec. 20.

Cleveland Builders Supply and Brick Company, The, Cleveland, Ohio. Prepared mixture, of which the main ingredients are sand, gravel, and cement for use in the construction of sidewalks, &c. No. 126,170; Dec. 20.

Coast Specialty Co., Inc., Bellingham, Wash. Cigars. No. 141,551; Dec. 20.

Coco Soap Company, The, Denver, Colo. Soap. No. 154,349; Dec. 20.

Compolidated Producers and Refiners Co., Fort Worth, Tex. Illuminating-oil. No. 131,147; Dec. 20.

Consolidated Producers and Refiners Co., Fort Worth, Tex. Heavy, medium, and light lubricating-oils. No. 131,148; Dec. 20.

Craft and Newton, Incorporated, Providence, R. I. Separable links, cuff, collar, and lapel buttons, scarf-pins, tie-holders. No. 150,960; Dec. 20.

Dairy Laboratories, The, Philadelphia, Pa. Antiseptics and deodorizers. No. 153,281; Dec. 20.

Dare, Arthur, Philadelphia, Pa. Hemoglobinometers and hemoskallometers. No. 146,205; Dec. 20.

Davis, P. H., Tailoring Company, Cincinnati, Ohio. Men's and young men's clothing. No. 146,069; Dec. 20.

Doniger & Company, Inc., New York, N. Y. Brushes. No. 151,034; Dec. 20.

Dorros Bros., Incorporated, New York, N. Y. Infant's wear. No. 147,096; Dec. 20.

Doughty Mfg. Company, New York, N. Y. Window-shield-cleaning devices. No. 152,503; Dec. 20.

Dow Chemical Company, The, Midland, Mich. Insecticides and fungicides. No. 153,448; Dec. 20.

Drico Silo Co., Minneapolis, Minn. Gymnastic apparatus for children. No. 153,176; Dec. 20.

Dulle-Meyer Milling Company, Chamois, Mo. Self-rising flour. No. 151,787; Dec. 20.

Duschnes, Edwin L., New York, N. Y. Storage batteries. No. 153,342; Dec. 20.

Eng-Skell Company, Inc., San Francisco, Calif. Non-alcoholic maltless beverages and syrup for flavoring same. No. 142,927; Dec. 20.

Engson, Edward, St. Paul, Minn. Cleaning dressing liquid-polish for automobiles, furniture, &c. No. 147,718; Dec. 20.

Essex Chemical Company, Chicago, Ill. Insecticides, rodent-poisons, insect-preventives. No. 145,776; Dec. 20.

Enterprise Brass and Plating Company, The, Cincinnati, Ohio. Engine ignition-timers. No. 148,722; Dec. 20.

Faulds, T. A., Company, Boston, Mass. Prepared flour for cakes and pastry. No. 152,005; Dec. 20.

Fay, Eli P., Los Angeles, Calif. Battery-separator. No. 153,347; Dec. 20.

Fischel Paper Co., Inc., Albany, N. Y. Bond, ledger, book, cover, and writing paper. No. 149,277; Dec. 20.

Fleischer, Joseph, New York, N. Y. Hair-nets. No. 155,017; Dec. 20.

Fonyo, Alador, Chicago, Ill. Maltless powder for making a nonalcoholic beverage. No. 147,103; Dec. 20.

Ford Flour Company, Nashville, Tenn. Self-rising flour. No. 139,742; Dec. 20.

Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. Nos. 155,063–4; Dec. 20.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Fort Howard Paper Company, Green Bay, Wis. Toilet-paper, paper-napkins, towels, and tablecloths. Nos. 152,425–40; Dec. 20.

Freed, James D. S., New York, N. Y. Wireless apparatus. No. 154,[illegible]; Dec. 20.

Friedman, Samuel D., Los Angeles, Calif. Aprons, ladies' and children's dresses, bath-robes, capes, waists, &c. No. 148,438; Dec. 20.

Gast, Derr & Shearer Company, Philadelphia, Pa. Air compressors. No. 151,845; Dec. 20.

Gebrüder Junghans, A. G., Schramberg, Germany. Clocks, watches, and parts thereof. No. 144,862; Dec. 20.

Gebrüder Junghans, A. G., Schramberg, Germany. Clocks, watches, and parts thereof. No. 149,450; Dec. 20.

Gebrüder Junghans, A. G., Schramberg, Germany. Clocks and parts thereof. No. 149,451; Dec. 20.

Gerrells, Ray F., Fort Worth, Tex. Liquid ejectors. No. 148,720; Dec. 20.

Gilson, Geo B., Co., New York, N. Y. Toothbrushes, hair and nail brushes. No. 149,698; Dec. 20.

Gladding, B. F., & Co. Inc., South Otselic, N. Y. Braided fish lines. No. 154,444; Dec. 20.

Gladding, B. F., & Co. Inc., South Otselic, N. Y. Waterproof braided fishing lines. No. 154,447; Dec. 20.

Gladding, B. F., & Co. Inc., South Otselic, N. Y. Braided trout and bass lines and waterproof fishing lines. No. 154,552; Dec. 20.

Gladding, B. F., & Co. Inc., South Otselic, N. Y. Silk fishing-lines. No. 154,556; Dec. 20.

Glostrenner, Charlotte L., York, Pa. Dolls. No. 133,051; Dec. 20.

Grady, E. C., Produce Company, Reinbeck, Iowa. Butter, eggs and dressed poultry. No. 150,633; Dec. 20.

Grasselli Chemical Company, The, Cleveland, Ohio. Dyes and dyestuffs. Nos. 152,675–6; Dec. 20.

Graves, Agnes C., Milwaukee, Wis. Skin-lotions. No. 154,723; Dec. 20.

Green and Green Company, The, Dayton, Ohio. Chocolate-coated crackers. No. 147,109; Dec. 20.

Greir, George W., Wheeling, W. Va. Men's ready made suits. No. 149,454; Dec. 20.

Hadfields Limited, Sheffield, England. Steam, hydraulic, and pneumatic valves, metal buckets, saucepans, frypans, baking pans, &c. No. 136,238; Dec. 20.

Hardy, Willoughby D., New York, N. Y. Shoulder and body brace. No. 148,067; Dec. 20.

Hart Bros., New York, N. Y. Hosiery. No. 148,828; Dec. 20.

Hendershot, John T., Newton, N. J. Pills to aid digestion. No. 151,713; Dec. 20.

Hennegan, Eva N., Cincinnati, Ohio. Game-boards in the nature of fortune-telling wheels. No. 137,376; Dec. 20.

Herrlich, John L., Columbus, Ohio. Medicine for rheumatism, indigestion, &c. No. 153,458; Dec. 20.

Herzfeld-Phillipson Company, The, Milwaukee, Wis. Leather shoes. No. 136,557; Dec. 20.

Hine, Earl L., Winston-Salem, N. C. Boots, shoes, overshoes, slippers, sandals, and hosiery. No. 147,059; Dec. 20.

Hobart Manufacturing Company, The, Troy, Ohio. Electrically-driven beating and mixing machines. No. 154,468; Dec. 20.

Hodgman Rubber Company, Yonkers, N. Y. Overcoats. No. 149,640; Dec. 20.

Horman, Henry F., Detroit, Mich. Medicine for treatment of pimples, ulcers, boils, &c. No. 153,240; Dec. 20.

Humphreys Manufacturing Company, The, Mansfield, Ohio. Electric water-supply pumps. No. 145,689; Dec. 20.

Hurley, H. O., Company, Louisville, Ky. Maltless syrup from which a soft drink beverage is made. No. 151,015; Dec. 20.

Hurwitt, George J., New York, N. Y. Remedy to take off superfluous fat and reduce weight. No. 150,402; Dec. 20.

Ideal Jewelry Manufacturing Co., Providence, R. I. Bracelets. No. 151,218; Dec. 20.

Industrial Paper Company, Baltimore, Md. Kraft wrapping-paper. No. 150,616; Dec. 20.

Ipswich Milling Co., Ipswich, S. D. Wheat-flour. Nos. 151,008–9; Dec. 20.

Isen Company, Incorporated, New York, N. Y. Preparation for preserving the surface of metals. No. 151,217; Dec. 20.

Jansen & Pretzfeld, Inc., New York, N. Y. Silks in the piece. No. 155,060; Dec. 20.

Janner, H. S., Rochester and Honeoye Falls, N. Y. Mineral-spring water. No. 150,069; Dec. 20.

Johansen, Nils A., Seattle, Wash. Cosmetics or liquid rouge. No. 153,088; Dec. 20.

Junoform Company, The, Philadelphia, Pa. Catamenial bandages. No. 147,024; Dec. 20.

Kais, Harry, New York, N. Y. Chiffon-velvet piece goods. No. 150,623; Dec. 20.

Keith Brothers & Co., Chicago, Ill. Men's hats, caps, gloves, and mittens. No. 148,604; Dec. 20.

Keller, Edgar T., Indianapolis, Ind. Liniment for rheumatism, cuts, burns, &c. No. 141,909; Dec. 20.

Kellogg & Bulkeley Company, The, Hartford, Conn. Flat papers, writing, bond, and ledger. No. 154,564; Dec. 20.

Keystone Mfg. Co., Boston, Mass. Toy motion-picture machines. No. 145,787; Dec. 20.

Klarit Limited, Liverpool, England. Substance for use in manufacture for decolorization. No. 152,426; Dec. 20.

Kon. Ned. Maatschappij tot Exploitatie van Petroleumbronnen in Ned. Indie, The Hague, Netherlands. Gasolene and kerosene. No. 104,582; Dec. 20.

Kreamer, A., Inc., Brooklyn, N. Y. Bread-boxes. No. 158,090; Dec. 20.

L. B. Hair Tonic Co., Minneapolis, Minn. Hair-tonic. No. 154,084; Dec. 20.

Langruth Oilcan Co., New York, N. Y. Dry batteries. No. 154,617; Dec. 20.

Langley & Michaels Co., San Francisco, Calif. Fountain-syrups and flavoring extracts for making beverages and syrups and extracts for making root-beer. No. 131,741; Dec. 20.

Lambacher Envelope Company, The, Springfield, Mass. Paper, such as writing, printing, commercial stationery, &c. No. 154,751; Dec. 20.

Lawrence, B. S., London, England. Cut leather soles. No. 135,470; Dec. 20.

Les Fils De Rubin-Maire, St.-Imier, Switzerland. Watch-springs. No. 146,640; Dec. 20.

Levy, Morris & Brother, New York, N. Y. Fur coats. No. 145,523; Dec. 20.

Lewis, Morgan F., St. Louis, Mo. Hosiery. No. 149,598; Dec. 20.

Lichtig, B., & Son, Inc., Oakland, Calif. Hair-nets. No. 155,178; Dec. 20.

Liggett & Myers Tobacco Company, New York, N. Y. Smoking and chewing tobacco and cigarettes. No. 136,900; Dec. 20.

London Shoe Co., Inc., New York, N. Y. Leather shoes. No. 152,570; Dec. 20.

Macy, R. H., & Co. Inc., New York, N. Y. Aprons. Nos. 148,288–9; Dec. 20.

Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. No. 155,026; Dec. 20.

Mar-Pelle Toilet Company, Orrville, Ohio. Hair-shampoo. No. 153,183; Dec. 20.

Marlowe Worsted Company, Kingston, Mass. Worsted goods in the piece for men's clothing. No. 153,088; Dec. 20.

Mayo Inc., San Francisco, Calif. Ligatures and sutures. No. 147,207; Dec. 20.

McElwain, W. H., Company, Boston, Mass. Leather boots, shoes, and slippers. No. 152,960; Dec. 20.

McFerson & Foster Co., Evansville, Ind. Assembled wooden boxes. No. 142,800; Dec. 20.

Meccano Limited, Liverpool, England. Electrical constructional toys. No. 138,947; Dec. 20.

Medicinal Springs Corporation, Wilmington, Del., and Meadville, Pa. Natural mineral water. No. 150,368; Dec. 20.

Melachrino, M., Co., Inc., New York, N. Y. Cigars, cigarettes, smoking and chewing tobacco. No. 152,516; Dec. 20.

Metallic Industries, Inc., St. Louis, Mo. Playthings constructed principally of metal. No. 140,507; Dec. 20.

Meyer-Mueller-Goodman Co., St. Louis, Mo. Men's and boys' cravats. No. 149,713; Dec. 20.

Meyers & Cohen, New York, N. Y. Children's and misses' dresses. No. 148,665; Dec. 20.

Midulla, B., New York, N. Y. Cigars. No. 145,169; Dec. 20.

Migel, J. A., Inc., New York, N. Y., Women's silk dresses, skirts, waists, &c. No. 149,342; Dec. 20.

Moorcroft, W., Limited, Burslem, England. Hand-made pottery. No. 141,914; Dec. 20.

Moore, J. Johnston, Montgomery, Ala. Ointment for the skin for the treatment of eczema, ringworm, &c. No. 134,972; Dec. 20.

Moriuchi, Hisaji, Osaka, Japan. Glass armlets. Nos. 138,621–2; Dec. 20.

Morton Sundour Fabrics Ld., Dentonhill and Carlisle, England. Floor-cloth—viz., floor-covering. No. 147,205; Dec. 20.

Moskowitz, Max, New York, N. Y. Cigars. No. 139,043; Dec. 20.

Mute-A-Phone Corporation, New York, N. Y. Telephone-mufflers. No. 153,800; Dec. 20.

Myers, Leonard, Gloversville, N. Y. Automobile and stove polishing mitts, &c. No. 143,135; Dec. 20.

Myers Manufacturing Co., Los Angeles, Calif. Bathing-suits. No. 140,473; Dec. 20.

National Aniline & Chemical Company, Inc., New York, N. Y. Coal-tar dyestuffs. No. 145,117; Dec. 20.

Nederlandsche Coöperative Zuivelverkoopcentrale, Amsterdam, Netherlands. Butter. No. 146,922; Dec. 20.

Nemasket Mineral Spring Company, Middleboro, Mass. Non-alcoholic maltless beverages and mineral-spring waters. No. 151,590; Dec. 20.

Niederer, Christopher, Carlstadt, N. J. Toilet and baby powder. No. 152,028; Dec. 20.

Noonan, Edward C., Toronto, Ontario, Canada. Dentifrice. No. 152,029; Dec. 20.

Norristown Hosiery Mills, Norristown, Pa. Hosiery. No. 140,554; Dec. 20.

North East Electric Company, Rochester, N. Y. Electric signal-horns for motor-vehicles. No. 154,842; Dec. 20.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

O'Brien Varnish Company, South Bend, Ind. Varnish. No. 152,579; Dec. 20.
Oliver Bros., Philadelphia, Pa. Athletic shoes. Ser. 144,800; Dec. 20.
Orange Kola Drug Company, St. Louis, Mo. Non-alcoholic maltless beverage. No. 151,656; Dec. 20.
Pacific Chemical Company, Los Angeles, Calif. Ammonia washing compound. No. 154,220; Dec. 20.
Package Paper & Supply Corporation, Springfield, Mass. Waxed and transparent papers. No. 144,944; Dec. 20.
Page, Lee, Birmingham, Ala. Malt extract. No. 153,366; Dec. 20.
Patch, E. L., Company, The, Stoneham, Mass. Preparation for treatment of kidney, liver, and bladder trouble. No. 153,471; Dec. 20.
Partlow & Co., Ltd., New Orleans, La. Wheat-flour. No. 152,022; Dec. 20.
Peet Bros. Manufacturing Company, Kansas City, Kans. Soap. No. 153,257; Dec. 20.
"Peggy Ware" Children's Dress Co. Inc., New York, N. Y. Children's dresses. No. 148,199; Dec. 20.
Pfeiffer, S., Mfg. Co., St. Louis, Mo. Medicinal and pharmaceutical preparations. No. 149,711; Dec. 20.
Phillips, A. E., St. Louis, Mo. Secondary electrical batteries. No. 153,473; Dec. 20.
Pierre Lemoine Co., Inc., New York, N. Y. Non-alcoholic beer extract. No. 151,331; Dec. 20.
Pittsburgh Brewing Company, Pittsburgh, Pa. Non-alcoholic maltless beverages. No. 151,649; Dec. 20.
Pixie Corporation, The, New York, N. Y. Clothes-laundering tablets with bath scenting and bluing properties. No. 153,258; Dec. 20.
Poland, Samuel B., Baltimore, Md. Butter. No. 151,020; Dec. 20.
Portland Overall Manufacturing Company, Portland, Me. Overalls. No. 148,848; Dec. 20.
Premiere Import Company, New York, N. Y. Human-hair nets. No. 152,867; Dec. 20.
Preservotop Auto Specialty Co., Seattle, Wash. Preservative dressing for automobile tops. No. 152,443; Dec. 20.
Purity Crystal Rock Mineral Spring Water Co., The, Chicago, Ill. Root-beer, ginger-ale, cream-soda, &c. No. 134,975; Dec. 20.
Radio Corporation of America, New York, N. Y. Radio receiving apparatus. No. 154,767; Dec. 20.
Rambo & Regar Incorporated, Norristown, Pa. Hosiery. No. 149,295; Dec. 20.
Randolph Milling Company, Baldwin, Ill. Wheat-flour. No. 147,312; Dec. 20.
Rauh Bros. & Co., Pittsburgh, Pa. Men's dress, negligée, and work shirts. No. 145,477; Dec. 20.
Rauh Bros. & Co., Pittsburgh, Pa. Men's and children's underwear, men's neckwear, gloves, fabric and rubber belts, &c. No. 145,478; Dec. 20.
Ray Battery Company, Detroit, Mich. Storage batteries. No. 137,960; Dec. 20.
Reefer, Eugene J., Philadelphia, Pa. Refined pharmaceutical compound, rich in yeast vitamins, &c. No. 153,695; Dec. 20.
Regelson, Morris, New York, N. Y. Insecticides and destroyer for all insects. No. 148,818; Dec. 20.
Rice Products Co. Inc., New Orleans, La. Rice. No. 150,025; Dec. 20.
Rich-Sampliner Knitting Mills Company, The, Cleveland, Ohio. Knitted woolen fabrics for outer garments in the piece. No. 152,540; Dec. 20.
Richter, Robert, Reichenberg, Czechoslovakia. Artificial gems. No. 152,214; Dec. 20.
Riker Company, The, Newark, N. J. Belt-buckles. No. 151,767; Dec. 20.
Roederer, Leon O., Reims, France. Champagne-wine. No. 145,532; Dec. 20.
Santerba Perfumery Manufacturer Inc., New York, N. Y. Powdered citrate of magnesia to be used with water as a drink and a medicated tonic beverage. No. 152,413; Dec. 20.
Scheelin-Manufacturing Company, San Francisco, Calif. Electric steam-radiators. No. 154,707; Dec. 20.
Schiff, Isidore M., New York, N. Y. Combination pencil and cigar-lighter. No. 150,634; Dec. 20.
Schroeder, John, Lumber Co., Milwaukee, Wis. Wooden boxes. No. 149,869; Dec. 20.
Schwab, Adolphe, Inc., New York, N. Y. Watches and watch movements, dials, and cases. No. 145,651; Dec. 20.
Scilken, Samuel, New York, N. Y. Gloves of leather, rubber, fabric, asbestos, and combination of said material. No. 126,484; Dec. 20.
Scotford, Baron H., Atlantic City, N. J. Dolls. No. 136,316; Dec. 20.
Seattle Suit Case Manufacturing Co., Seattle, Wash. Grips, satchels, trunks, &c. No. 153,117; Dec. 20.
Seils, Leopold, Stoughton, Mass. Leather shoes. No. 148,890; Dec. 20.
Sheeter, Richard P., Delphos, Ohio. Cigars. No. 135,825; Dec. 20.
Sherwin-Williams Company, The, Cleveland, Ohio. Paint-brushes, scratch-brushes, and dusters for painters' use. No. 137,052; Dec. 20.
Sherwin-Williams Company, The, Cleveland, Ohio. Varnishes, stains, paint enamels, paints, &c. No. 147,185; Dec. 20.
Shwayder Trunk Manufacturing Company, The, Denver, Colo. Trunks and suit-cases. No. 144,547; Dec. 20.
Sicher, D. H., & Company, New York, N. Y. Women's undergarments, nightwear, sweater-coats, bloomers, &c. No. 144,826; Dec. 20.
Siegel Brothers, Chicago, Ill. Hats and caps for men, boys and children. No. 147,664; Dec. 20.
Sinclair Refining Company, Chicago, Ill. Lubricating-oil. No. 141,923; Dec. 20.
Smith's, M. A., Sons, Philadelphia, Pa. Leather shoes. No. 149,429; Dec. 20.
Society of Chemical Industry in Basle, Basel, Switzerland. General tonic. No. 149,537; Dec. 20.
Solow, N., New York, N. Y. Solid-headed pins. No. 149,249; Dec. 20.
Southwestern Broom Mfg. Co., The, Evansville, Ind. Brooms. No. 152,154; Dec. 20.
Spokane Dry Goods Company, Spokane, Wash. Men's outer shirts. No. 147,129; Dec. 20.
Standard Bottling Co. Inc., Newark, N. J. Non-alcoholic, maltless beverages sold as soft drink. No. 153,056; Dec. 20.
Standard Match Corporation, The, Garfield, N. J. Matches. No. 153,899; Dec. 20.
Stein, A., and Company, Chicago, Ill. Rubber sheeting. No. 153,872; Dec. 20.
Steinfels, Freres, Vitrolles-sur, France. Perfumeries, sachet powders, and cosmetics. Nos. 147,796–9; Dec. 20.
Stone & Andrew Inc., Boston, Mass. Ledger, bond, and book papers. No. 154,358; Dec. 20.
Stone & Andrew, Inc., Boston, Mass. Book papers. No. 154,709; Dec. 20.
Stover Signal Engineering Company, The, Cleveland, Ohio. Electrically-lighted stop and direction signals for vehicles. No. 150,874; Dec. 20.
Strauss, Samuel, New York, N. Y. Laxative for treatment of torpid liver, &c. No. 151,229; Dec. 20.
Strawbridge & Clothier, Philadelphia, Pa. Men's and boys' outer clothing. No. 149,081; Dec. 20.
Sullivan, R. G., Estate, Manchester, N. H. Cigars. No. 144,259; Dec. 20.
Surbrug, John W., Inc., New York, N. Y. Cigars. No. 134,142; Dec. 20.
Tate Manufacturing Company, Boston, Mass. Mops. No. 150,119; Dec. 20.
Texas Cotton Mill Co., McKinney, Tex. Cotton piece goods. No. 154,692; Dec. 20.
Texoleum Company of N. Y., Inc., New York, N. Y. Oil cloth, linoleum, &c. No. 138,363; Dec. 20.
Thompson-Barlow Company, The, New York, N. Y. Massaging-cup for treatment of ailments of the body and weight reduction thereof. No. 149,058; Dec. 20.
Thomson-Diggs Company, The, Sacramento, Calif. Street and house brooms, floor-brushes, glass-brushes, garage-brushes, &c. No. 148,180; Dec. 20.
Three Star Non-Rub Auto Gloss Mfg. Co., The, St. Louis, Mo. Polish for automobiles. No. 150,295; Dec. 20.
Tower, A. J., Company, Boston, Mass. Waterproof-coats. No. 149,565; Dec. 20.
Tribune Company, The, Chicago, Ill. Newspaper-section. No. 147,054; Dec. 20.
"Turinac" Turkish Macedonian Tobacco Company, Arnhem, Netherlands. Cigarettes, cigars, tobacco. No. 139,101; Dec. 20.
Tutti Frutti Beverage Company, Inc., Brooklyn, N. Y. Bottled soda-water and syrup for making same. No. 152,192; Dec. 20.
Twin Tube & Rubber Company, Chicago Heights, Ill. Rubber heels. No. 117,824; Dec. 20.
Two Star Mfg. Co., Sayville and Brooklyn, N. Y. Leak-proof composition for tires. No. 151,802; Dec. 20.
Tyson Shirt Company, Norristown, Pa. Night-shirts, pajamas, underwear. No. 136,781; Dec. 20.
United Alkali Co., Ltd., The, Liverpool, England. Caustic soda, chlorates, &c. Nos. 152,451–2; Dec. 20.
United Royalties Corp., New York, N. Y. Petticoats. No. 148,776; Dec. 20.
United States Playing Card Company, The, Cincinnati, Ohio. Playing-cards. No. 150,187; Dec. 20.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Boots and shoes made of rubber and fabric. No. 148,679; Dec. 20.
Universal Leaf Tobacco Co., Inc., New York, N. Y. Leaf-tobacco. No. 143,803; Dec. 20.
Upjohn Company, The, Kalamazoo, Mich. Chemicals, medicines, and pharmaceutical preparations. No. 153,747; Dec. 20.
Utica Knitting Company, Utica, N. Y. Knit underwear for men, women and children. No. 149,387; Dec. 20.
Van Raalte Company, Inc., New York, N. Y. Fabric for gloves and hosiery and women's underwear of knitted and textile fabrics. No. 148,647; Dec. 20.
Van Slyke, G. W., & Horton, Albany, N. Y. Cigars. No. 140,762; Dec. 20.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Vanity Fair Silk Mills, Reading, Pa. Bloomers. No. 140,225; Dec. 20.
Wallace, William F., Victoria, Va. Medicinal preparation for the kidneys and for diabetes. No. 152,223; Dec. 20.
Walraven, A. T., Book Cover Company, Dallas, Tex. Protective coverings for books. No. 152,051; Dec. 20.
Western Electric Company, Incorporated, New York, N. Y. Pike-poles, cant-hooks, soldering-irons, linemen's-tools, and materials, &c. No. 111,636; Dec. 20.
Westinghouse Lamp Company, Bloomfield, N. J. Potential-detectors. No. 152,598.
Weyman Brothers, Los Angeles, Calif. Hats for ladies. No. 148,818; Dec. 20.
White, H. C., Company, North Bennington, Vt. Four-wheeled play-wagons. No. 146,100; Dec. 20.
White, H. C., Company, North Bennington, Vt. Coasters for children. No. 146,102; Dec. 20.
White, H. C., Company, North Bennington, Vt. Coasters and play-wagons. No. 146,103; Dec. 20.
Whitehead Hosiery Mills, Inc., Burlington, N. C. Hosiery. No. 148,407; Dec. 20.
Whitlock Cordage Co., New York, N. Y. Manila rope. No. 153,748; Dec. 20.
Whitlock Cordage Co., New York, N. Y. Sisal rope. No. 153,749; Dec. 20.
Willman, William G., Paper Co. Inc., New York, N. Y. Writing and printing paper. No. 154,779; Dec. 20.
Winkelman Brothers, Philadelphia, Pa. Hosiery. No. 147,490; Dec. 20.
Wirebounds Corporation, (now by change of name —4—One Box Machine Makers), Portland, Me., and New York, N. Y. Boxes and packing-cases. No. 126,834; Dec. 20.
Wohl, M. J., & Co. Inc., New York and Long Island City, N. Y. Electric-arc lamps. No. 153,833; Dec. 20.
Zohman, Nathan, New York, N. Y. Malt extract. No. 140,668; Dec. 20.
Zorro Tobacco Co., Inc., The, New York, N. Y. Smoking-tobacco. No. 143,525; Dec. 20.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 20TH DAY OF DECEMBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abdominal retractor. H. B. McCrory and W. Pearson. No. 1,400,616; Dec. 20.
Adding and recording machine. H. Landsiedel. No. 1,400,610; Dec. 20.
Aeroplane. W. Tilse. No. 1,400,582; Dec. 20.
Aeroplane-engine-starting apparatus. R. Harris. No. 1,400,745; Dec. 20.
Aeroplane-kite. L. E. Eddy. No. 1,400,735; Dec. 20.
Air and gases from water, System for removing. R. N. Ehrhart. Nos. 1,401,100–1; Dec. 20.
Air and gases from water, Systems for removing. R. N. Ehrhart. No. 1,401,110; Dec. 20.
Airplane. N. R. Smith. No. 1,400,916; Dec. 20.
Agricultural machine for direct attachment to tractors. C. W. Armantrout. No. 1,401,020; Dec. 20.
Alley. A. W. Clement. No. 1,400,527; Dec. 20.
Animal-poke. O. M. Owens. No. 1,400,568; Dec. 20.
Animal-trap. W. A. Telga. No. 1,401,011; Dec. 20.
Animal-weaning device. W. F. Kolarik. No. 1,400,750; Dec. 20.
Arch-support. G. Galloway. No. 1,401,066; Dec. 20.
Auto-locking device. G. Zlezol. No. 1,400,928; Dec. 20.
Automobile-heater. T. Bovey. No. 1,400,518; Dec. 20.
Automobile-jack. S. M. Berger. No. 1,400,654; Dec. 20.
Automobile race, Theatrical. E. H. Herbert. No. 1,400,818; Dec. 20.
Automobile-signal. W. F. Shonk. No. 1,400,999; Dec. 20.
Automobile tail-lamp and signal. C. Stern and G. F. Egan. No. 1,400,635; Dec. 20.
Automobile top. J. C. McQuilkin. No. 1,400,800; Dec. 20.
Automobile windshield-wiper. O. A. Derieco. No. 1,400,595; Dec. 20.
Automobiles, Chock-block for. F. Aru. No. 1,400,785; Dec. 20.
Automobiles, Hot-air heater for. B. E. Hagen. No. 1,400,815; Dec. 20.
Automobiles, Protecting appliance for use on. J. R. Dimon. No. 1,400,611; Dec. 20.
Automobiles, Spring mechanism for front axle for. H. H. Howard and B. Farnsworth. No. 1,400,604; Dec. 20.
Axle construction, Driving. W. P. Frey. No. 1,400,949; Dec. 20.
Babbitting device. F. B. Scarsdale. No. 1,400,994; Dec. 20.
Bag-lock. H. Tueckmantel and W. A. Lotz. No. 1,400,640; Dec. 20.
Bale-tie machine. G. E. Bull. No. 1,400,937; Dec. 20.
Ball-seat. A. B. Breese. No. 1,401,107; Dec. 20.
Bar: *See*—
Boring-bar. Reinforce-bar.
Battery: *See*—
Electric battery.
Battery-jars, Manufacture of hard-rubber. H. Schelhammer. No. 1,400,913; Dec. 20.
Bearing, Roller. O. A. Gabriel and J. T. Skillins. No. 1,400,809; Dec. 20.
Bearing, Sealed radius-. C. I. McCuen. No. 1,400,754; Dec. 20.
Bed. L. L. Hadley. No. 1,400,952; Dec. 20.
Bed, Convertible chair-. H. Bittel. No. 1,400,718; Dec. 20.
Bed, Folding. E. Dreis. No. 1,400,734; Dec. 20.
Bed, Folding. A. Ernest. No. 1,400,814; Dec. 20.
Beet-topper. W. Hoaer. No. 1,401,070; Dec. 20.
Belt, Endless. C. C. Gates. No. 1,400,539; Dec. 20.
Belt-making process. C. C. Gates. No. 1,400,538; Dec. 20.
Bench: *See*—
Convertible bench. Piano-bench.
Bit: *See*—
Well-drilling bit.
Blockbleeding machine. W. M. Wood. No. 1,400,589; Dec. 20.
Block: *See*—
Building-block. Railway bumper-block.
Chock-block.
Board: *See*—
Ouija board.
Boat. C. J. Baer. No. 1,400,787; Dec. 20.
Boiler-tube scraper. J. H. Goodfellow. No. 1,400,851; Dec. 20.
Boiler-furnace. T. A. Peebles. No. 1,400,830; Dec. 20.
Book, Loose-leaf. B. G. Martin. No. 1,400,891; Dec. 20.
Book-stitching machines, Signature feeding mechanism for. M. Christensen. No. 1,400,725; Dec. 20.
Boot and shoe. W. F., J. A., and F. D. Stephan. No. 1,400,536; Dec. 20.
Boots and shoes, Machine for use in lasting. F. W. Ward. No. 1,400,703; Dec. 20.
Boring-bar. J. Van Der Vorn. No. 1,400,642; Dec. 20.
Bottles, Apparatus for washing and sterilising. F. S. Burnham. No. 1,400,797; Dec. 20.
Bottle-cap. R. Stock. No. 1,400,918; Dec. 20.
Bottle or can washing machine. W. G. Mason. No. 1,400,894; Dec. 20.
Box: *See*—
Staff-exchange box. Switching-box.
Stuffing-box.
Bracket: *See*—
Curtain-rod bracket.
Brake: *See*—
Electropneumatic brake. Vehicle-brake.
Fluid-pressure brake.
Brake-hanger. J. F. Riley and B. S. Fockler. No. 1,400,980; Dec. 20.
Brassière. W. Kops. No. 1,400,883; Dec. 20.
Brassière. W. Kops and L. Goldsmith. No. 1,400,884; Dec. 20.
Brick, Arch-. A. H. Willett. No. 1,401,022; Dec. 20.
Broom-bridle. A. O. Lindstrom. No. 1,400,888; Dec. 20.
Brush and supply-holder, Combined. J. E. Holloway and H. E. Burwell. No. 1,400,954; Dec. 20.
Bucket, Crane-hook grab-. F. H. Williams. No. 1,400,922; Dec. 20.
Bucket, Self-opening. C. Nolan. Nos. 1,400,902–3; Dec. 20.
Buckle. R. I. Douglas. No. 1,400,666; Dec. 20.
Building-block. C. C. Worthington. No. 1,400,700; Dec. 20.
Bumper. O. H. Goetz. No. 1,400,674; Dec. 20.
Burial-case. T. Bradley. No. 1,401,037; Dec. 20.
Bushing-remover. P. G. Gully. No. 1,400,676; Dec. 20.
Buttoning-machine. L. J. Bazzoni. No. 1,400,714; Dec. 20.
Cabinet, Unit metal transfer-. P. H. Yawman. No. 1,400,710; Dec. 20.
Calculating-machine. J. C. Wahl. No. 1,400,584; Dec. 20.
Cameras, Double-exposure and blank-film preventing device for. H. J. Fries. No. 1,400,872; Dec. 20.
Cameras, Film-shift lock for. P. F. Valerio. No. 1,400,641; Dec. 20.
Can: *See*—
Garbage-can.
Can ends and applying ring-liners thereto, Organized apparatus for grooving. I. D. Thornburgh. No. 1,400,530; Dec. 20.
Can heading machine. J. Brenzinger. No. 1,400,796; Dec. 20.
Cap. J. P. Cook. No. 1,400,528; Dec. 20.
Car-axles, Means for driving dynamos from. W. F. Bouché. No. 1,400,793; Dec. 20.
Car-control device, Safety. S. W. Dudley. No. 1,400,669; Dec. 20.
Car-control device, Safety. C. C. Farmer. No. 1,400,593; Dec. 20.
Car-control device, Safety. C. C. Farmer. No. 1,400,596; Dec. 20.
Car-door-operating mechanism, Dump-. H. S. Hart. No. 1,400,544; Dec. 20.
Car, Dumping-. A. Campbell. No. 1,400,867; Dec. 20.
Car, Ore-. A. Campbell. No. 1,400,866; Dec. 20.
Car-step, Auxiliary. P. Swanson and A. Carlson. No. 1,400,577; Dec. 20.
Car-trucks, Equaliser for. P. Parke. No. 1,400,693; Dec. 20.
Cars, Power attachment for Ford. O. A. Bloom. No. 1,400,720; Dec. 20.
Cards, Machine for making coin-. H. H. Steele. No. 1,400,634; Dec. 20.
Carriage, Baby-. O. E. Kilmer. No. 1,401,065; Dec. 20.
Carrier: *See*—
License-number carrier. Spare-tire carrier.
Luggage-carrier.
Case: *See*—
Burial-case.
Cases for containing drawers, shelves, &c., Construction of metal. W. Chipperfield. No. 1,401,041; Dec. 20.
Casing-head. C. B. Clarke. No. 1,400,940; Dec. 20.
Casting-machine, Centrifugal. C. F. Bloom. No. 1,400,857; Dec. 20.
Ceiling, Metal. W. H. Klauer. No. 1,400,882; Dec. 20.
Chain, Antiskid. R. Mestars. No. 1,400,896; Dec. 20.

Chain-fastening device. C. J. Garvey. No. 1,401,007; Dec. 20.
Chair attachment. W. H. Weber. No. 1,401,019; Dec. 20.
Chart, Overtime-. R. T. Anderson. No. 1,401,052; Dec. 20.
Check-writer. H. H. Steel. Nos. 1,400,574–5; Dec. 22.
Chemical reactions by catalysis, Process and apparatus for carrying out. J. Eastwick. No. 1,400,959; Dec. 20.
Chock-block. F. Arn. No. 1,400,764; Dec. 20.
Circuit breaker and controller. J. C. Anderson. No. 1,400,929; Dec. 20.
Circuit-controller. N. R. Haas. No. 1,401,071; Dec. 20.
Circuit-controller. T. G. Lewis. No. 1,400,886; Dec. 20.
Clamp: *See*—
Pneumatic and hydraulic clamp.
Cleaner: *See*—
Flue-cleaner. Well-cleaner.
Oil-well cleaner.
Cleaning and coating composition. J. M. Wilson. No. 1,401,023; Dec. 20.
Cleaning and polishing composition. A. A. Leggett. No. 1,400,826; Dec. 20.
Clock, Electric. L. E. Shaw. No. 1,400,832; Dec. 20.
Closet-bowls, Ventilating apparatus for. A. W. Lucas. No. 1,401,091; Dec. 20.
Clothes-drier. G. Berquist. No. 1,400,789; Dec. 20.
Clothes-hanger. J. E. Stagl. No. 1,400,633; Dec. 20.
Clutch. A. H. Leipert. No. 1,400,557, Dec. 20.
Clutch. S. M. D. Miller. No. 1,400,585; Dec. 20.
Coffee-steep. A. Johnstone. No. 1,400,749; Dec. 20.
Coffee-beans, &c., and product resulting therefrom, Treating. N. Rosewater. No. 1,400,992; Dec. 20.
Colors and apparatus for same, Compounding. A. Howland. No. 1,400,552; Dec. 20.
Combination-lock. F. Clark. No. 1,401,044; Dec. 20.
Commutator. R. A. L. Volst. No. 1,401,016; Dec. 20.
Commutators, Brush arrangement for disk-shaped H. Sundhaussen. No. 1,400,779; Dec. 20.
Compressor. F. J. Heldsman. No. 1,401,102; Dec. 20.
Compressor. C. L. McCrea. No. 1,400,785; Dec. 20.
Compressors, Compressing vapor in multistage centrifugal. B. Graemiger. No. 1,400,813; Dec. 20.
Concrete-form. I. J. Kuert. No. 1,400,751; Dec. 20.
Concrete pipe. Metaled-end. C. Meriwether. No. 1,401,105; Dec. 20.
Concrete-tie-making machine. J. Nelson. No. 1,400,960; Dec. 20.
Concrete-wall mold. R. C. Keogan. No. 1,400,682; Dec. 20.
Conduit, Conveyer-. J. B. Brown. No. 1,400,658; Dec. 20.
Connecting-rods and similar machine parts, Production of. J. Oakley. No. 1,400,825; Dec. 20.
Container. A. M. Kruse. No. 1,400,685; Dec. 20.
Container-holder. B. Butler. No. 1,400,788; Dec. 20.
Containers, Electric stopper for fluid-. E. C. Webster. No. 1,400,646; Dec. 20.
Controlling and regulating, Method and means for. J. M. Hopwood. No. 1,400,550; Dec. 20.
Controlling device. F. A. McDaniels. No. 1,401,093; Dec. 20.
Convertible bench. C. Jurkovich. No. 1,401,083; Dec. 20.
Cooler: *See*—
Water-cooler.
Cooling device. F. D. Howe. No. 1,400,878; Dec. 20.
Copper catalyst. D. A. Legg. No. 1,401,117; Dec. 20.
Copper, Process of and apparatus for refining. O. C. Martin. No. 1,400,892; Dec. 20.
Copy-holder, Adjustable. L. P. Curtis. No. 1,400,730; Dec. 20.
Cotton-picking machine. E. P. Hayes. No. 1,401,076; Dec. 20.
Cotton-scraper. J. D. Ramsey. No. 1,400,982; Dec. 20.
Couplings, Weather-protector for. H. F. Woernley. No. 1,400,649; Dec. 20.
Cradle. J. Jacob. No. 1,400,748; Dec. 20.
Cream-separator. W. N. Opt. No. 1,400,073; Dec 20.
Crucible-furnace. M. Mathy. No. 1,400,759; Dec. 20.
Crutches, Adjustable hand-grip for. J. B. Glowacki. No. 1,400,600; Dec. 20.
Current-motor. W. J. McGavock. No. 1,400,965; Dec. 20.
Cup: *See*—
Oil-cup.
Curtain-rod bracket. M. D. Coady. No. 1,400,726; Dec. 20.
Cut-out, Automatic. L. D. Croninger. No. 1,400,670; Dec. 20.
Decoy-minnow. W. R. Neudeck. No. 1,401,096; Dec. 20.
Dental tip and tongue depressor. A. Barr. No. 1,400,854; Dec. 20.
Derrick, Towing-. A. Gloor. No. 1,400,540; Dec. 20.
Designs, Device for making. W. M. Tietz. No. 1,400,838; Dec. 20.
Diaphragm-mounting. E. C. Wood and H. J. W. Fay. No. 1,401,024; Dec. 20.
Dilator. E. H. Whitney. No. 1,400,648; Dec. 20.
Dimmer. J. Galamb and E. P. Oswald. No. 1,400,811; Dec. 20.
Dispensing apparatus. J. R. Scales and L. M. Wilson. No. 1,400,770; Dec. 20.
Display-rack. H. W. Elliott. No. 1,401,057; Dec. 20.
Display-stand. C. E. Kayler. No. 1,401,084; Dec. 20.
Display-stand. N. Rippenbein. No. 1,400,987; Dec. 20.
Door-hinge. F. J. W. Barrow. No. 1,400,788; Dec. 20.
Door track, Roller-. E. W. Twet. No. 1,400,630; Dec. 20.
Draft-connection. E. W. Burgess. No. 1,400,861; Dec. 20.
Drier: *See*—
Clothes-drier.
Dynamo-electric machine, A. Schapiro. No. 1,400,771; Dec. 20.
Dyeing yarns, &c., J. A. Grundy. No. 1,400,976; Dec. 20.
Dynamometer, Indicating. H. Smith. No. 1,400,776; Dec. 20.
Edger, Grinding cutting-. P. M. Perry. No. 1,400,787; Dec. 20.
Electrical Device. J. Lindgren. No. 1,400,887; Dec. 20.
Engineer. J. K. and C. K. Martinka. No. 1,400,966; Dec. 20.
Electric battery. B. C. Benner. No. 1,400,818; Dec. 20.
Electric driving pump-jack. C. P. Christensen. No. 1,401,042; Dec. 20.
Electric light fixture. J. T. Drufva. (Reissue.) No. 15,249; Dec. 20.
Electric machine, Dynamo-. A. E. Backenberg. No. 1,401,112; Dec. 20.
Electric machine, Regulating device for dynamo-. O. F. Conklin. No. 1,401,049; Dec. 20.
Electric plug receptacle. W. Ile. (Reissue.) No. 15,251; Dec. 20.
Electric regulation. J. L. Creveling. No. 1,400,729; Dec. 20.
Electric signal for banks, Silent. G. W. Lancaster. No. 1,401,047; Dec. 20.
Electric water-heater. H. W. Christian. No. 1,400,858; Dec. 20.
Electrical apparatus. D. Conlan, Jr. No. 1,400,862; Dec. 20.
Electrical distribution, System of. W. L. Bliss. No. 1,400,856; Dec. 20.
Electrical fitting. H. G. Kraemer. No. 1,400,824; Dec. 20.
Electrical heating units, Terminal connection for. E. Kuhn, J. A. Hand, and J. G. Spies. No. 1,400,686; Dec. 20.
Electrical relay. C. O. Harrington. No. 1,400,802; Dec. 20.
Electrical wave transmission. C. D. Shret. No. 1,400,581; Dec. 20.
Electropneumatic brake. J. B. Groeswerk. No. 1,400,802; Dec. 20.
Electropneumatic brake. T. H. Thomas. No. 1,400,853; Dec. 20.
Elevator-doors, Door-opening device and lock for. F. A. Brealtcher. No. 1,400,721; Dec. 20.
Engine: *See*—
Internal-combustion engine.
Engine constructions, Internal-combustion. F. V. Hoogendijk. No. 1,400,746; Dec. 20.
Engines, Air-regulating device for internal-combustion. R. Abram. No. 1,400,536; Dec. 20.
Engines, Cooling and indicating system for internal-combustion. A. M. Wolf. No. 1,400,972; Dec. 20.
Engines, Cooling system for automobile-. R. F. Crawford. No. 1,400,805; Dec. 20.
Engines, Vacuum fuel feed device for internal-combustion. C. S. Burton. No. 1,400,723; Dec. 20.
Envelop-opener. B. Fedorko. No. 1,400,946; Dec. 20.
Envelop-opener. E. R. Fleming. No. 1,400,809; Dec. 20.
Esters, Apparatus for the manufacture of. A. A. Backhaus. No. 1,400,850; Dec. 20.
Esters, Apparatus for the production of. A. A. Backhaus. No. 1,400,851; Dec. 20.
Esters, Continuous process for the manufacture of. A. A. Backhaus. No. 1,400,849; Dec. 20.
Esters, Production of. A. A. Backhaus. No. 1,400,822; Dec. 20.
Evaporator system, High-heat-level. S. Brown. No. 1,400,935; Dec. 20.
Extractor: *See*—
Liquid-extractor.
Extractor. W. Bartholomew. No. 1,400,932; Dec. 20.
Extricating device. J. McCutcheon. No. 1,401,081; Dec. 20.
Eye-shade. W. K. Milne. No. 1,401,118; Dec. 20.
Fabric frame, Pile-. P. W. Copeland. No. 1,400,529; Dec. 20.
Fastening device. L. B. Craig. No. 1,400,662; Dec. 20.
Feed-water purifier, Boiler-. C. E. Sargent. No. 1,400,993; Dec. 20.
Feeding device. E. R. Draver. No. 1,400,668; Dec. 20.
Film-cleaner. A. Teitel. No. 1,401,012; Dec. 20.
Film cleaner and rewinder. A. Teitel. No. 1,401,013; Dec. 20.
Film-cleaning apparatus. A. Teitel. No. 1,401,014; Dec. 20.
Fire-control apparatus, particularly for naval guns. W. Akemann. No. 1,401,028; Dec. 20.
Fishhook. J. M. King. No. 1,401,086; Dec. 20.
Fire-extinguisher. G. T. Pearsons. No. 1,400,906; Dec. 20.
Flower petals, Producing artificial. L. Malstrom. No. 1,400,691; Dec. 20.
Flower-pot, Self-irrigating. A. W. Rudolph. No. 1,400,628; Dec. 20.
Fluid-meter. H. Chrisman. No. 1,400,523; Dec. 20.
Fluid-pressure and regenerative brake, Combined. W. V. Turner. No. 1,400,841; Dec. 20.
Fluid-pressure brake. C. C. Farmer. No. 1,400,594; Dec 20.
Fluid-pressure brake. C. C. Farmer. No. 1,400,597; Dec. 20.
Fluid-pressure-brake device. S. W. Dudley. No. 1,400,670; Dec. 20.

Fluid-pressure brakes, Protecting device for. R. S. Aikman. No. 1,400,661; Dec. 20.
Fluxing, Method of, as apparatus for feeding. C. Offenhauer. No. 1,400,974; Dec. 20.
Forceps. R. Barbour. No. 1,400,658; Dec. 20.
Frame: *See*—
Pile-fabric frame.
Fuel-control, Automatic. T. W. Crane. No. 1,400,868; Dec. 20.
Fumigating and spraying apparatus. W. G. Dingle. No. 15,248; Dec. 20. (Reissue.)
Furnace: *See*—
Boiler-furnace. Crucible-furnace.
Furnaces, Operation of blast-. V. Lisonnoff. No. 1,400,803; Dec. 20.
Furniture-leg, Shoe for. C. B. Wagner, Jr. No. 1,400,751; Dec. 20.
Fuse. B. C. Candee and W. N. Pierce. No. 1,400,938; Dec. 20.
Fuse, Electrical. H. Snodgrass. No. 1,401,004; Dec. 20.
Fuse, Inclosed. R. C. Cole. No. 1,400,661; Dec. 20.
Fuse, Renewable. R. C. Cole. No. 1,400,660; Dec. 20.
Gage: *See*—
Filling-gage. Pressure-gage.
Gage. C. M. Skofield. No. 1,401,000; Dec. 20.
Galley end lock. J. G. Zim. No. 1,400,650; Dec. 20.
Game apparatus. G. H. Bugenhagen. No. 1,400,520; Dec. 20.
Game, Card. J. W. Smiley. No. 1,401,001; Dec. 20.
Garbage-can. I. Levy. No. 1,401,090; Dec. 20.
Gas burner and heater, Combined. L. Bloom. No. 1,400,719; Dec. 20.
Gas-generator. M. Bolsen. No. 1,401,035; Dec. 20.
Gas generators, Automatically-enslagging shaft construction for water-. P. Koster. No. 1,400,855; Dec. 20.
Gases and method of asphyxiating obnoxious animals, Apparatus for producing noxious. G. M. Fowler. No. 1,400,598; Dec. 20.
Gases, Apparatus for the electrical treatment of. L. Bradley. No. 1,400,795; Dec. 20.
Generator: *See*—
Gas-generator.
Glassware, Mechanism for forming. W. J. Miller. No. 1,400,821; Dec. 20.
Gluing machine. A. Elmendorf. No. 1,400,943; Dec. 20.
Grain-separators, Feeder for. W. C. Leonard. No. 1,400,868; Dec. 20.
Grain-washing machine. C. Dawson. No. 1,400,664; Dec. 20.
Gramophone and like machine. E. A. Graham. No. 1,401,009; Dec. 20.
Grate. L. Budd. No. 1,400,722; Dec. 20.
Grave-marker. W. F. Norman. No. 1,400,970; Dec. 20.
Grinders, Beater for. J. Ward. No. 1,401,017; Dec. 20.
Grinding machines, Tool-handle attachment for. T. B. Murphy. No. 1,400,762; Dec. 20.
Guard, Automatic safety-. L. G. Stables. No. 1,400,835; Dec. 20.
Gun. L. L. Summers. No. 1,401,010; Dec. 20.
Gun-barrel assembled by rotatory motion of its component parts, Composite. J. Vollmer. No. 1,400,780; Dec. 20.
Hacksaw. M. C. Gibson. No. 1,400,873; Dec. 20.
Hanger: *See*—
Brake-hanger. Clothes-hanger.
Hair-bobbing device. T. G. Gregory. No. 1,401,070; Dec. 20.
Hair-curling device. J. Goldsmith, Jr. No. 1,400,812; Dec. 20.
Hair-waving process and device. W. Szilányi. No. 1,400,637; Dec. 20.
Hand-press and bottle-capping apparatus. A. Krus. No. 1,400,536; Dec. 20.
Harvester, Cotton-. B. Cannon. No. 1,400,522; Dec. 20.
Hats, Device for retaining the shape of. F. L. Rapson. No. 1,400,760; Dec. 20.
Hayrack-fastener. H. A. Smith. No. 1,400,834; Dec. 20.
Headlight. P. J. Hlaza. No. 1,400,820; Dec. 20.
Headlight. W. G. Wood. No. 1,400,926; Dec. 20.
Headlight for motor-vehicles, Dirigible. H. B. Page. No. 1,400,975; Dec. 20.
Heater: *See*—
Automobile-heater. Water-heater.
Electric water-heater.
Heating-furnace with removable hearth. A. F. Delacourt. No. 1,401,054; Dec. 20.
Heating system. E. E. Schellhamer. No. 1,400,831; Dec. 20.
Heel-breasting machine. G. S. Tolman, Jr. No. 1,400,700; Dec. 20.
Heel-building machine. J. H. Pope. No. 1,400,695; Dec. 20.
Hinge-gage. A. G. Murdock. No. 1,400,898; Dec. 20.
Hollow spar, Trussed. J. V. Maxwell and J. P. Selser. No. 1,400,620; Dec. 20.
Hood-fastener. C. R. Hennicke. No. 1,400,953; Dec. 20.
Hook: *See*—
Ice-hook.
Horseshoe. B. Harris and W. Van Buren. No. 1,401,074; Dec. 20.
Hose-supporters, Bunch-holding device for. A. G. Anderson. No. 1,401,009; Dec. 20.
Hosiery presses, Feeding mechanism for. C. E. Waream. No. 1,400,645; Dec. 20.
Hydraulic jig-separator. R. S. Ransom, Jr. No. 1,400,910; Dec 20.
Hydrocarbon with aluminum chlorid, Treating residues resulting from the treatment of. L. Burgess. No. 1,401,113; Dec. 20.
Hydrocarbons, Cracking. J. W. Coast, Jr. No. 1,400,800; Dec. 20.
Ice-hook. J. R. Stogner. No. 1,401,008; Dec. 20.
Ignition apparatus. A. Erickson. No. 1,401,058; Dec. 20.
Ignition system. C. T. Mason and W. J. Hart. No. 1,400,561; Dec. 20.
Incubator. E. D. Charters. (Reissue.) No 15,247; Dec. 20.
Index-tab. J. L. Burgoyne. No. 1,400,862; Dec. 20.
Indicator. H. A. Soderberg. No. 1,401,006; Dec. 20.
Insect-killer. F. W. Wallace. No. 1,400,782; Dec. 20.
Intermittent-feed mechanism. A. G. Hillman. No. 1,400,877; Dec. 20.
Internal-combustion engine. J. Jessen. No. 1,400,955; Dec. 20.
Internal-combustion engine. H. F. Leissner. No. 1,401,069; Dec. 20.
Internal-combustion engine. C. E. Lucke. No. 1,400,889; Dec. 20.
Iron: *See*—
Soldering-iron.
Ironing-machine. A. J. Fisher. No. 1,400,808; Dec. 20.
Jack: *See*—
Automobile-jack. Roller-base lifting-jack.
Electric-driving pump-jack.
Jack. C. H. Howland-Shearman. No. 1,400,605; Dec. 20.
Key-cutting machine. R. R. Holbrook. No. 1,400,678; Dec. 20.
Lamp-extinguisher. H. Zajac. No. 1,400,845; Dec. 20.
Lamp, Portable electric. J. W. Higgins. No. 1,400,819; Dec. 20.
Lantern, Electric. J. W. Smith. No. 1,400,775; Dec. 20.
Lasting-machine. J. B. Hadaway. No. 1,400,816; Dec. 20.
Lathe-center. E. H. Davis and R. D. Baker. No. 1,400,731; Dec. 20.
Laundry-form. F. E. O'Brien. No. 1,400,703; Dec. 20.
Lawn-edging machine. C. Rosel. No. 1,400,927; Dec. 20.
Lawn-mowers, Grass-catcher for. T. A. Powell. No. 1,400,907; Dec. 20.
Leather loops, Stapling machine for. F. H. Wilbur. No. 1,400,843; Dec. 20.
Leather, Utilization of waste or scraps of. M. Nakayama and K. Adachi. No. 1,400,899; Dec. 20.
Leaves, Machine for making artificial. G. G. Focke. No. 1,401,002; Dec. 20.
Leg-support. E. Rawlinson. No. 1,400,625; Dec. 20.
Leveler and dirt-scraper. L. J. Mitchell. No. 1,400,968; Dec. 20.
Levers, Safety-lock for. C. A. A. Rand. No. 1,400,909; Dec. 20.
License-number carrier. K. A. Smsby and G. W. Akin. No. 1,400,630; Dec. 20.
Life-saving device. W. G. Parmele. No. 1,400,976; Dec. 20.
Lifting-jack, Roller-base. S. P. Barker. No. 1,400,931; Dec. 20.
Light: *See*—
Portable electric light.
Light projection or distribution. J. T. Robin. No. 1,400,990; Dec. 20.
Lighting unit. C. A. B. Halvorson, Jr. No. 1,400,817; Dec. 20.
Liquid-extractor. O. W. Judd. No. 1,400,957; Dec. 20.
Liquid-fuel burners, Regulating apparatus for. C. D. Stewart. No. 1,400,858; Dec. 20.
Liquid-fuel-control system. S. G. Down. No. 1,400,667; Dec. 20.
Liquid-fuel-supply-tank apparatus, Indicating and recording. E. S. Matthews. No. 1,400,895; Dec. 20.
Litter-collector. A. L. Bishman. No. 1,400,519; Dec. 20.
Load brake device. G. A. Boyden. No. 1,400,656; Dec. 20.
Load brake equipment. C. C. Farmer. No. 1,400,595; Dec. 20.
Lock: *See*—
Bag-lock. Nut-lock.
Galley end lock.
Lock. A. Ashkar. No. 1,401,030; Dec. 20.
Lock. A. C. Prince. No. 1,400,908; Dec. 20.
Lock. T. F. Ward. No. 1,401,018; Dec. 20.
Lock. A. Winkelmann. No. 1,400,588; Dec. 20.
Lock and interlock, Rotatable. G. C. Jensen. No. 1,400,679; Dec. 20.
Loom for weaving Axminster carpets and rugs. C. H. Collins. No. 1,400,941; Dec. 20.
Looms, &c., Hand-wheel mechanism for. A. E. Rhoades. No. 1,401,095; Dec. 20.
Looms, Selvage-trimmer for. H. T. Abbott. No. 1,400,711; Dec. 20.
Lubricating device. H. H. Westinghouse. No. 1,400,647; Dec. 20.
Luggage-carrier. F. H. Mansfield. No. 1,400,758; Dec. 20.
Mail-collecting apparatus. E. J. Leger. No. 1,400,611; Dec. 20.
Manhole-form. F. L. Young. No. 1,400,927; Dec. 20.
Marine propulsion. J. M. Bowles. No. 1,401,036; Dec. 20.
Marionette. M. M. Dondo. No. 1,400,532; Dec. 20.
Marking-machine. H. W. Winter. No. 1,400,708; Dec. 20.
Massage and therapeutic gymnastic treatment, Apparatus for. C. G. Holmstrom. No. 1,400,547; Dec. 20.
Match-box, Novelty. S. K. Nomeland. No. 1,400,904; Dec. 20.

Matrices, Spaceliner for. W. B. Counts. No. 1,400,726; Dec. 20.
Metal strapping and sealing containers, Means for. J. R. Pierson. No. 1,400,624; Dec. 20.
Metal-working machines, Heading apparatus for. C. E. F. Ahlm and T. F. Ekert. No. 1,400,548; Dec. 20.
Metal-working machines, Turret attachment. E. P. Lowe Jr. No. 1,400,614; Dec. 20.
Meter: *See*—
Fluid-meter.
Watt-hour meter.
Milking apparatus. M. C. Herbst. No. 1,400,542; Dec. 20.
Milking-machines, Pulsator for. W. A. Blackmore. No. 1,400,735; Dec. 20.
Mill: *See*—
Cane-sugar mill.
Milling-machines, Profiling attachment for. C. W. Lang. No. 1,400,661; Dec. 20.
Mixture. O. H. Bohnert. No. 1,400,655; Dec. 20.
Mixing device. C. R. Jenks and H. O. Yeoman. No. 1,400,553; Dec. 20.
Mold: *See*—
Concrete-wall mold.
Map-holder. T. Dalton. No. 1,401,051; Dec. 20.
Motor: *See*—
Current-motor.
Motor. W. A. Smith. No. 1,401,003; Dec. 20.
Motorcycle front wheels, Spring-mounting for. F. H. Baker and T. J. Biggs. No. 1,401,002; Dec. 20.
Motorcycles, Means for securing articles to. J. F. Merkel. No. 1,400,967; Dec. 20.
Musical instrument, Indicator for. E. Pannell. No. 1,400,947; Dec. 20.
Musical instrument, Mechanical. H. E. Tower. No. 1,400,921; Dec. 20.
Nail. E. L. Mackenzie. No. 1,400,756; Dec. 20.
Necktie-holder. J. Borus. No. 1,400,858; Dec. 20.
Nozzle. E. F. Stenemann. No. 1,400,578; Dec. 20.
Nitric acid, Making. J. H. Reid. No. 1,400,912; Dec. 20.
Nut-lock. P. Hieb. No. 1,400,545; Dec. 20.
Nut, Self-locking retaining. W. F. Johnson. No. 1,400,570; Dec. 20.
Oil and gas burner, Combined. S. B. Brodie. No. 1,400,657; Dec. 20.
Oil control and oil-feeder. S. C. Howard. No. 1,401,081; Dec. 20.
Oil-cup. C. E. Cox. No. 1,400,804; Dec. 20.
Oil dash-pot. G. A. Burnham. No. 1,400,793; Dec. 20.
Oil-well cleaner. M. A. Pallett. No. 1,400,745; Dec. 20.
Ophthalmic mounting. H. H. Schutt. No. 1,400,997; Dec. 20.
Ordnance, Apparatus for testing the sighting device of. F. Sabloth. No. 1,400,772; Dec. 20.
Ore, Concentrating. B. H. Dorenbach and W. A. Scott. No. 1,401,055; Dec. 20.
Orthopedic appliance. L. S. Doyle. No. 1,401,056; Dec. 20.
Osteopathic-treatment table. E. D. Holme. No. 1,400,546; Dec. 20.
Ouija-board. H. M. Bigelow. No. 1,400,791; Dec. 20.
Paint, Making. T. Blass. No. 1,401,034; Dec. 20.
Panel. G. H. Gneiss and C. J. Peterson. No. 1,400,950; Dec. 20.
Paper and paper-towel dispenser, Toilet-. N. S. Hillyard. No. 1,400,677; Dec. 20.
Paper bags, Machine for making. L. W. Welsford. No. 1,400,587; Dec. 20.
Paper-cutting device. G. Spiess. No. 1,400,777; Dec. 20.
Paper-roll holder and cutter. E. O. Bulman. No. 1,401,021; Dec. 20.
Parasiticidecetenlid, Manufacture of parasiticidin from. K. Kaasl. No. 1,400,555; Dec. 20.
Partition forming and attaching machine. W. Goodell. No. 1,400,776; Dec. 20.
Phonograph-amplifier. J. A. Rayder. No. 1,400,985; Dec. 20.
Phonograph lighting system. R. M. G. Phillips. No. 1,400,694; Dec. 20.
Phonograph-stop, Automatic. C. H. Taylor. No. 1,400,838; Dec. 20.
Phonographs, Knock down cabinet for. C. R. Soule. No. 1,400,632; Dec. 20.
Physical developer for rowing exercise. T. Britt. No. 1,401,038; Dec. 20.
Piano-bench. L. M. Adler. No. 1,401,027; Dec. 20.
Piano construction, Grand-. B. C. Edmands. No. 1,401,115; Dec. 20.
Picture-frame attachment. M. V. Stroud. No. 1,400,920; Dec. 20.
Picture machines, Safety device for moving-. C. F. Mehl, H. B. Liebler, J. Nall, and E. J. Nobbe. No. 1,400,740; Dec. 20.
Pipe: *See*—
Metal-and-concrete pipe.
Pipe-switch. H. W. Knowlton and W. A. Newton. No. 1,400,609; Dec. 20.
Pipe-wrench. J. F. Astley. No. 1,400,930; Dec. 20.
Pipes, Deflector for fuel-. L. E. Baker. No. 1,400,511; Dec. 20.
Pipes, rods, &c., Machine for straightening bent. J. C. Ollard. No. 1,400,764; Dec. 20.
Piston-packing. L. C. Marshall. No. 1,400,500; Dec. 20.
Piston-ring. H. S. Frank. No. 1,400,672; Dec. 20.
Piston-rod connection. G. Hartwig. No. 1,401,075; Dec. 20.
Plaster. S. S. Culy. Nos. 1,400,728–30; Dec. 20.
Plate-puller. A. J. Abernathy. No. 1,400,783; Dec. 20.
Plow. T. J. Washburn. No. 1,401,020; Dec. 20.
Pole, Reversible. F. Pitt. No. 1,400,765; Dec. 20.
Pneumatic and hydraulic clamp. O. P. Gilson. No. 1,400,501; Dec. 20.
Pot: *See*—
Oil-cloth pot.
Potassium carbonate, Making. I. F. Harlow. No. 1,400,542; Dec. 20.
Poultry-feed apparatus. F. T. Bruns. No. 1,400,683; Dec. 20.
Power-operated tool-holder, Portable. C. C. Rathorn. No. 1,400,774; Dec. 20.
Power-press for operating on metal sheets or strips. H. A. and R. H. Griffith. No. 1,401,104; Dec. 20.
Pressed-steel wheel. J. G. Swain. No. 1,400,837; Dec. 20.
Pressure-gage. T. W. Anderson. No. 1,400,945; Dec. 20.
Printer, Yeast-sealing permeable-. F. G. L. Johnson. No. 1,400,754; Dec. 20.
Printing device, Lace-sewn-. H. A. W. Wood. No. 1,400,924; Dec. 20.
Printing-presses, Attachment for. C. L. Welch. No. 1,400,794; Dec. 20.
Puller: *See*—
Mechanical puller.
Tie-puller.
Plate-puller.
Puller, Mechanical. C. H. Howland-Sherman. No. 1,400,601; Dec. 20.
Pulley. J. G. Fischer. No. 1,400,671; Dec. 20.
Pump. J. R. Kinney. No. 1,400,822; Dec. 20.
Pump. L. L. May. No. 1,401,054; Dec. 20.
Pump. F. D. Sweet. No. 1,400,578; Dec. 20.
Pumps, Liquid seal for. R. L. Ferguson. No. 1,401,060; Dec. 20.
Pumps, Regulating device for fuel-oil. H. H. Blume. No. 1,401,033; Dec. 20.
Rack: *See*—
Hosiery-rack.
Radiator. M. Poinoroff. No. 1,400,978; Dec. 20.
Radiator-cover. H. Forthman. No. 1,401,064; Dec. 20.
Radiator unit. J. M. Fedders. No. 1,400,945; Dec. 20.
Radio communication, System of. E. F. W. Alexanderson. No. 1,400,847; Dec. 20.
Radiotelegraphic signals, Recording apparatus for. A. E. Blondel. No. 1,400,517; Dec. 20.
Railway burner-block. C. Roberts. No. 1,400,869; Dec. 20.
Railway construction. J. Gazo. No. 1,401,009; Dec. 20.
Railway-tie. V. F. Franck. No. 1,400,737; Dec. 20.
Railway-traffic-controlling apparatus. R. A. Mattson. No. 1,400,564; Dec. 20.
Range. Combination coal and gas. S. McClure. No. 1,400,528; Dec. 20.
Ranges, High-closet bracket for. S. W. Palmer. No. 1,400,569; Dec. 20.
Receptacle, Collection-. C. J. Kreeig. No. 1,400,823; Dec. 20.
Reel-holder. G. E. Ball. No. 1,400,884; Dec. 20.
Reflector, Multiple. E. N. Brown and M. H. Rheinberg. No. 1,400,839; Dec. 20.
Refrigerator. E. Van Dyke. No. 1,400,643; Dec. 20.
Regenerative brake device. W. V. Turner. No. 1,400,840; Dec. 20.
Regenerative brakes, Safety device for. W. V. Turner. No. 1,400,839; Dec. 20.
Regulating means, Combustion-. J. M. Hopwood. No. 1,400,549; Dec. 20.
Reinforcers. E. J. Paque. No. 1,400,579; Dec. 20.
Relishing machine. C. D. Burritt. No. 1,400,864; Dec. 20.
Reserve-supply tank, Detachable. A. W. Cahl. No. 1,400,727; Dec. 20.
Rim. O. H. Jobski. No. 1,400,900; Dec. 20.
Ring: *See*—
Piston-ring.
Rivet holder-on jam, Universal. J. H. Schmidt and L. Ahlers. No. 1,400,571; Dec. 20.
Rod: *See*—
Steering reach-rod.
Rubber and similar material, Machine for treating. D. R. Bowen and C. F. Schnuck. No. 1,400,934; Dec. 20.
Rubber, Vulcanizing. W. M. Mackintosh. No. 1,400,618; Dec. 20.
Sand-blast device. F. Washburn. No. 1,400,585; Dec. 20.
Sash-fastener. S. L. Carty. No. 1,400,939; Dec. 20.
Sash, Window-. R. C. Keegan. No. 1,400,883; Dec. 20.
Scale, Weighing-. H. B. Bartlett. No. 1,400,935; Dec. 20.
Screen for sand, gravel, &c. G. A. Selvour. No. 1,400,877; Dec. 20.
Seat: *See*—
Rail-seat.
Seat. D. C. Goff. No. 1,400,875; Dec. 20.
Seating appliance. F. G. Parker. No. 1,400,974; Dec. 20.
Sedimentation. C. H. Nordell. No. 1,400,622; Dec. 20.
Separator: *See*—
Cream-separator.
Wild-oats separator.
Hydraulic jig-separator.
Sewing-machine, Strip-folder for. A. H. De Voe. No. 1,400,530; Dec. 20.
Sewing-machine trimming mechanism. D. S. Seymour. No. 1,400,998; Dec. 20.
Sewing-machines, Hemstitching attachment for. J. Hickey. No. 1,401,109; Dec. 20.
Sewing-machines, Presser-foot for. G. S. Gatchell. No. 1,400,537; Dec. 20.

Sharpening device, Blade-. G. D. Gallagher. (Reissue.) No. 15,250; Dec. 20.
Sheet-feeding device. G. Spiess. No. 1,400,778; Dec. 20.
Sheet material, Dispensing device for. M. M. Marcuse. No. 1,400,619; Dec. 20.
Shell-hoist for use with ammunition hoisting apparatus for ordnance. A. T. Dawson and J. Horne. No. 1,401,114; Dec. 20.
Shelving and analogous purposes, Means for supporting. A. W. Lambert. No. 1,400,960; Dec. 20.
Shirt. J. Y. Ming. No. 1,400,881; Dec. 20.
Shock-absorber. H. Faudree and H. E. Cooper. No. 1,401,059; Dec. 20.
Shoe-upper and finishing the edges thereof, D. Daniels. No. 1,400,806; Dec. 20.
Shuttle, Tatting. M. E. Dean. No. 1,401,093; Dec. 20.
Sign-holder. M. Metzger. No. 1,400,984; Dec. 20.
Sign luminous by reflection. E. Bertron. No. 1,400,855; Dec. 20.
Signal: *See*—
Automobile-signal.
Signaling system. L. S. Demarest and J. Davidson, Jr. No. 1,400,782; Dec. 20.
Silo, Blower apparatus for blower-pipes when filling. A. G. Lueck. No. 1,400,774; Dec. 20.
Silo-filler and lifting jack, Combined. J. W. Meyles. No. 1,400,987; Dec. 20.
Sizing-machines, Holder for. E. M. Stiles. No. 1,400,698; Dec. 20.
Sling for use with parachutes, Safety spring. E. R. Calstrop. No. 1,401,040; Dec. 20.
Smelting-furnaces, Device for closing the tap-holes in. F. Baarmann. No. 1,401,072; Dec. 20.
Soap, Forming cakes of. M. L. Crouch. No. 1,401,050; Dec. 20.
Socket-interrupter. M. H. Shoemberg. No. 1,400,914; Dec. 20.
Soldering-iron. C. B. Archer. No. 1,400,784; Dec. 20.
Solids from liquids, Apparatus for separating. S. R. Puryear. No. 1,400,980; Dec. 20.
Sound-regrouping machines, Type-arm for. A. B. Rastall. No. 1,400,983; Dec. 20.
Spark-plug. G. Christern. Nos. 1,400,524–5; Dec. 20.
Spoon, Trolling-. E. C. Selleck. No. 1,400,629; Dec. 20.
Spring: *See*—
Bed-spring.
Vehicle-spring.
Spring-motors, Indicating mechanism for. V. V. Veeshenen. No. 1,400,644; Dec. 20.
Sprinkler: *See*—
Lawn-sprinkler.
Sprinkler. O. F. Engel. No. 1,400,533; Dec. 20.
Sprinkler, Lawn-. J. D. Sullivan. No. 1,401,005; Dec. 20.
Square, Folding. J. McFadden. No. 1,400,617; Dec. 20.
Square for plumbers and steamfitters, Pipe-measuring. A. C. Rodriguez. No. 1,400,626; Dec. 20.
Staff-exchange box. C. C. Farmer. No. 1,400,592; Dec. 20.
Stand: *See*—
Display-stand.
Starting apparatus, Automatic impulse. H. Tiedemann. No. 1,400,581; Dec. 20.
Staysail structure. E. J. Dodds. No. 1,400,531; Dec. 20.
Staysail structure. J. R. Flannery and E. I. Dodds. Nos. 1,400,525–6; Dec. 20.
Staysail structure. J. R. Flannery and E. S. Fitz Simmons. No. 1,400,736; Dec. 20.
Steering mechanism. F. G. Lewis. No. 1,400,698; Dec. 20.
Steering reach-rod. R. A. Kape. No. 1,401,110; Dec. 20.
Stereopticon. W. H. Kelly. No. 1,400,958; Dec. 20.
Stocking-stretcher. C. Fowler. No. 1,401,065; Dec. 20.
Stoking mechanism. J. M. Hopwood. No. 1,400,548; Dec. 20.
Stoking mechanism. T. A. Peebles. No. 1,400,760; Dec. 20.
Storage-tank. J. M. Hopwood. No. 1,400,747; Dec. 20.
Store, F. J. Florence. No. 1,400,948; Dec. 20.
Strips, Machine for drying. E. Ammann-Haberstich. No. 1,400,503; Dec. 20.
Stuffing-box. R. Rogers and M. Groves. No. 1,400,901; Dec. 20.
Suction-lifting implement. W. Stader. No. 1,400,575; Dec. 20.
Sugar-dispenser. W. Maluaz. No. 1,400,757; Dec. 20.
Sugar dispensing and weighing container. H. M. Bigelow. No. 1,400,790; Dec. 20.
Sugar mill, Cane-. J. Meinecke. No. 1,401,095; Dec. 20.
Superheater. J. A. Barnes. No. 1,400,883; Dec. 20.
Superheater. F. W. Foppoby. No. 1,401,063; Dec. 20.
Surgical instrument. H. Krueshold and A. J. Walter. No. 1,401,104; Dec. 20.
Sweeper, Suction-. A. F. Staples. No. 1,401,007; Dec. 20.
Switch: *See*—
Pipe-switch.
Switching-box. P. F. Williams. No. 1,401,021; Dec. 20.
Swivel connection. B. W. Hall. No. 1,401,073; Dec. 20.
Table: *See*—
Osteopathic-treatment table.
Tank: *See*—
Detachable reserve-supply tank.
Storage-tank.
Telegraph, Printing-. F. Ritchie. No. 1,400,988; Dec. 20.
Telephone system. J. F. Toomey. No. 1,400,583; Dec. 20.
Telephone system, Selective. A. H. Dyson. No. 1,400,590; Dec. 20.
Thread-milling machine. R. Milne. No. 1,400,761; Dec. 20.
Ticket-holder. E. J. Buckreis. No. 1,400,519; Dec. 20.
Tie: *See*—
Railway-tie.
Tie-holder. J. Crnoev. No. 1,400,663; Dec. 20.
Tie-puller. P. Miller. No. 1,400,692; Dec. 20.
Tiles, Tool for handling. A. A. Clymer. No. 1,401,046; Dec. 20.
Tire. W. L. Clendenning. No. 1,401,045; Dec. 20.
Tire, Armored. S. J. Flynn. No. 1,401,061; Dec. 20.
Tire carrier, Spare-. F. Aumann. No. 1,401,031; Dec. 20.
Tire for automobiles, Emergency. J. H. Shoeman. No. 1,400,915; Dec. 20.
Tire-shade. G. T. Lee. No. 1,401,088; Dec. 20.
Tobacco leaf, Treating. J. S. Villacorta. No. 1,401,106; Dec. 20.
Tongs, Breakout-. M. Belcher. No. 1,400,715; Dec. 20.
Tooth and supporting means therefor, False. N. R. Lourie. No. 1,400,613; Dec. 20.
Toy. W. L. De Haven. No. 1,400,942; Dec. 20.
Toy. A. B. Roseboom. No. 1,400,600; Dec. 20.
Toy vehicle. T. W. Spaulding. No. 1,400,917; Dec. 20.
Traction-lug. J. A. Bentz. No. 1,400,614; Dec. 20.
Traction-machine. F. G. Lewis. No. 1,400,699; Dec. 20.
Tractor. J. M. Kroyer. No. 1,400,684; Dec. 20.
Tractors, Clutch-pedal attachment for. E. R. Pusard. No. 1,400,981; Dec. 20.
Trailer. C. H. Land, Jr. No. 1,400,752; Dec. 20.
Transformer-cover construction. R. V. Bingay. No. 1,400,515; Dec. 20.
Transmission mechanism. C. B. Kurtz. No. 1,400,657; Dec. 20.
Transmission mechanism, Power-pulley mounting for. A. H. Asprooth. No. 1,400,510; Dec. 20.
Trap: *See*—
Animal-trap.
Trenching-machine. F. E. Bager. No. 1,400,712; Dec. 20.
Trolley apparatus. F. M. Johnston. No. 1,401,082; Dec. 20.
Trolling device. C. S. Hurtt. No. 1,400,821; Dec. 20.
Trolley, Sliding. O. Moore. (Reissue.) No. 15,252; Dec. 20.
Trolley-wheel. H. M. Kaul. No. 1,400,681; Dec. 20.
Trousers, Device for hanging and pressing. J. J. Getgey. No. 1,400,741; Dec. 20.
Truck-pedestal. J. B. Weaver and P. Parke. No. 1,400,586; Dec. 20.
Truck-supported knockdown circle-swing. W. A. Colgate. No. 1,400,802; Dec. 20.
Trucks, Fluid-check for lifting. W. B. Sigel. No. 1,401,111; Dec. 20.
Trunk-dolly. M. O. Anthony and G. Lederman. No. 1,400,599; Dec. 20.
Turbine. W. Chilton. No. 1,400,799; Dec. 20.
Turbine-driven separators, Pumping arrangement for. L. Rasch. No. 1,400,911; Dec. 20.
Typewriters, Cardholding clip for. W. A. Burton. No. 1,400,865; Dec. 20.
Typewriters, Multiple-ply web for. J. A. B. Smith. No. 1,400,572; Dec. 20.
Typewriters, Multiple-ply web for. J. A. B. Smith. No. 1,400,631; Dec. 20.
Typewriting and computing machine, Combined. H. H. Vickers. No. 1,400,842; Dec. 20.
Typewriting-machine. W. F. Helmond. No. 1,401,103; Dec. 20.
Typewriting-machine. J. Waldheim. No. 1,400,702; Dec. 20.
Undergarment, Lady's. O. A. Lau. No. 1,400,825; Dec. 20.
Valve and valve-operating mechanism. Dust-catcher. A. C. Danks. No. 1,401,052; Dec. 20.
Valve, Fluid-controlling. H. E. Evans. No. 1,400,944; Dec. 20.
Valve for hot-water systems, Safety relief-. C. H. Smith. No. 1,401,002; Dec. 20.
Valve for pneumatic motors, Oscillating. H. S. Horsbeck. No. 1,400,551; Dec. 20.
Valve for range-boilers, &c., Steam-escape. W. A. Collver. No. 1,401,048; Dec. 20.
Valve, Irrigating-. J. A. Nickolaus. No. 1,401,097; Dec. 20.
Valve, Locking-. F. J. McCalmont. No. 1,400,615; Dec. 20.
Vehicle attachment, Motor-. F. H. Nye. No. 1,400,971; Dec. 20.
Vehicle-brake. C. F. Crawford. No. 1,400,869; Dec. 20.
Vehicle-brake. F. B. Snyder. No. 1,401,005; Dec. 20.
Vehicle construction, Cushioned connection for. A. F. Masury and A. H. Leipert. No. 1,400,563; Dec. 20.
Vehicle for traversing marsh-lands, Motor-. M. Ray. No. 1,400,984; Dec. 20.
Vehicle, Motor-. H. D. Church. No. 1,401,043; Dec. 20.
Vehicle, Motor-. A. Moorhouse. No. 1,400,566; Dec. 20.
Vehicle, Refuse-. W. W. Harris. No. 1,400,543; Dec. 20.
Vehicle-spring. N. E. Lieberg. No. 1,400,612; Dec. 20.
Vehicle-wheel. W. H. Dundore. No. 1,400,807; Dec. 20.
Vehicle-wheel. R. Stock. No. 1,400,910; Dec. 20.
Vehicle-wheel, Resilient. W. C. and C. M. Wright. No. 1,400,844; Dec. 20.
Vehicle-wheel with permanent rim or metal felly. J. C. Lewis. No. 1,400,828; Dec. 20.
Vehicle-wheels, Oil-cap for. A. J. Crotty. No. 1,400,871; Dec. 20.

Vehicles, Cooling system for motor-. A. F. Mastry. No. 1,400,582; Dec. 20.
Vehicles, Durable wagon for. W. R. Johnston. No. 1,400,592; Dec. 20.
Vehicles, Device for controlling the speed of automobile-. A. Gallizard. No. 1,400,611; Dec. 20.
Vehicles, Direction-indicator for. T. F. Goodwin. No. 1,400,621; Dec. 20.
Vehicles, Lock for motor-driven. C. N. Adkin. No. 1,400,677; Dec. 20.
Vehicles, Refrigerator-body for. C. O. Junge. No. 1,400,690; Dec. 20.
Vehicles, Sand-dispensing device for motor-. H. J. Hinz. No. 1,401,078; Dec. 20.
Vehicles, Speed-control device for motor-. J. E. Jurdan. No. 1,401,088; Dec. 20.
Vise-fixing device. F. P. Nelson. No. 1,400,601; Dec. 20.
Vending machine. A. D. Greyer. No. 1,400,814; Dec. 20.
Vending-machine. B. F. Grutzstrup. No. 1,400,742; Dec. 20.
Vending-machine, Coin-operated. E. Schultz. No. 1,400,774; Dec. 20.
Ventilated automobile-driver's seat. D. Benson and C. E. Bruce. No. 1,400,717; Dec. 20.
Ventilator. T. M. Brown, Jr. No. 1,400,800; Dec. 20.
Wall construction and brick therefor. E. P. Martin. No. 1,400,803; Dec. 20.
Washing-machine. S. B. and J. Adler. No. 1,401,018; Dec. 20.
Washing-machine. E. J. Peary. No. 1,400,977; Dec. 20.
Washing-machines and wringers, Gear transmission for. H. Hansen. No. 1,400,744; Dec. 20.
Washing-machine, Driving connection for. H. Hansen. No. 1,400,745; Dec. 20.
Washtub-protector. I. B. Downey. No. 1,400,721; Dec. 20.
Water-cooler. W. B. Barley and J. C. Corbett. No. 1,400,713; Dec. 20.
Water-heater. C. C. Hansen. No. 1,400,541; Dec. 20.
Water-heater. W. L. Marden. No. 1,400,559; Dec. 20.
Water-wheel. J. J. Hendley. No. 1,401,077; Dec. 20.
Waterproofing substance for fibrous material. A. O Tate. No. 1,400,579; Dec. 20.
Weeding implement. H. L. Gilliland. No. 1,400,673; Dec. 20.
Well-boring apparatus, Automatic slip for. W. G. Vreeland. No. 1,400,791; Dec. 20.
Well-cleaner. A. Schaurer. No. 1,400,996; Dec. 20.
Well-drilling bit. O. J. Bourgois. No. 1,400,794; Dec. 20.
Well-drilling tools, Temper-screw for. R. E. Nelbock. No. 1,400,000; Dec. 20.
Wells, Process of and apparatus for drilling oil-. R. E. Leonard. No. 1,400,982; Dec. 20.
Wheel:—
Pressed-steel wheel. Vehicle-wheel.
Resilient-vehicle wheel. Water-wheel.
Trolley-wheel.
Wheel rim, Vehicle-. J. C. Thoberath. No. 1,401,015; Dec. 20.
Wind-gate apparatus. F. W. Busch. No. 1,401,009; Dec. 20.
Window attachment. H. A. Hobelmann. No. 1,401,080; Dec. 20.
Windshield for vehicles, Auxiliary. T. B. Powell and C. A. Nielsen. No. 1,401,079; Dec. 20.
Windshields, Certain attachment for. L. K. Mulford. No. 1,400,997; Dec. 20.
Wire-tightener and splicer. H. H. Schaster. No. 1,400,965; Dec. 20.
Wire twisting and bending machine. J. A. Butler. No. 1,400,734; Dec. 20.
Wire-tying machine, Hand-operated. P. Wright. No. 1,401,020; Dec. 20.
Work-holding device. J. M. Benjamin. No. 1,400,716; Dec. 20.
Wrapping-machine, Apparatus for unwinding paper strips from rolls of paper in. R. Leumann. No. 1,400,827; Dec. 20.
Wrench:—
Pipe-wrench.
Wrench. F. J. Nordstrom. No. 1,400,995; Dec. 20.
X-Ray tube-guard for. G. C. Johnsen and L. A. Dyhrdt. No. 1,400,007; Dec. 20.

ALPHABETICAL LIST OF DESIGNS.

Air compressor casing. E. H. Steedman. No. 60,066; Dec. 20.
Advertising device. H. Morris. No. 60,064; Dec. 20.
Advertising novelty. C. H. Forbell. No. 60,019; Dec. 20.
Anvil. J. Sheever. No. 60,064; Dec. 20.
Basket, Waste-. C. W. Sutton. No. 60,070; Dec. 20.
Bookrack. H. H. Febrey. No. 60,017; Dec. 20.
Bottle opener, Milk-. B. Biehl, Sr. No. 60,009; Dec. 20.
Cabinet, Display. H. Morris. Nos. 60,062–3; Dec. 20.
Candle-cup. H. T. Howell. No. 60,028; Dec. 20.
Car, Play-. J. K. Tully. No. 60,072; Dec. 20.
Churn-dasher. N. P. Dazey. Nos. 60,015–6; Dec. 20.
Clamp. J. H. Stone. No. 60,068; Dec. 20.
Coin or token. S. P. Foltz. No. 60,018; Dec. 20.
Coin or token. D. W. Hollister. No. 60,024; Dec. 20.
Curtain and shade hanger. S. Lojewski. No. 60,046; Dec. 20.
Cut-out ring. H. T. Howell. No. 60,027; Dec. 20.
Desk and table, Combination. P. Van Dommelen. No. 60,077; Dec. 20.
Desk, Chair-. J. C. Moore. No. 60,051; Dec. 20.
Desk-pad corner-clip. H. T. Adams. No. 60,006; Dec. 20.
Display-counter. G. W. Gray. No. 60,021; Dec. 20.
Doll. C. Johnstone. No. 60,031; Dec. 20.
Doll. H. O. Oliver. No. 60,056; Dec. 20.
Doll. F. Vathé. No. 60,076; Dec. 20.
Doll's head. V. H. Mohler. No. 60,050; Dec. 20.
Figure, Novelty. H. H. Kepley. No. 60,042; Dec. 20.
Flower-stand. C. M. Winemiller. No. 60,079; Dec. 20.
Foot-band. C. Tweedie. Nos. 60,074–5; Dec. 20.
Game-board. R. H. Cotter. No. 60,013; Dec. 20.
Garment, Child's outer. J. Solomon. No. 60,065; Dec. 20.
Gas-heater. J. H. Grayson. Nos. 60,022–3; Dec. 20.
Gas-heater. M. L. Packer. No. 60,057; Dec. 20.
Glass, Reading-. L. W. Bugbee. No. 60,010; Dec. 20.
Glass dish, Transparent-. G. D. Sailer. No. 60,062; Dec. 20.
Heat-tube for fireplace-heater. G. E. Sharpe. No. 60,063; Dec. 20.
Ice-cream-cone tray. J. W. Hoodwin. No. 60,025; Dec. 20.
Jewelry. F. T. Kässel. Nos. 60,039–40; Dec. 20.
Lamp. W. L. Stewart. No. 60,067; Dec. 20.
Lace. M. H. Daudy. No. 60,014; Dec. 20.
Lifting-jack. J. C. Kopf. No. 60,044; Dec. 20.
Lighting-fixture. H. C. Adam. Nos. 60,000–1; Dec. 20.
Lighting-fixture arm. R. Kleinman. No. 60,045; Dec. 20.
Lighting-fixture arm. H. T. Howell. No. 60,029; Dec. 20.
Lighting-fixture arm hook. W. R. Kahns. Nos. 60,035–6; Dec. 20.
Lighting-fixture body. H. C. Adam. Nos. 60,002–3; Dec. 20.
Lighting-fixture plate. H. T. Howell. No. 60,030; Dec. 20.
Lighting-fixture reflector, Semi-indirect. H. C. Adam. No. 60,004; Dec. 20.
Lighting-fixtures, Knob for arm-hook for. W. R. Kahns. No. 60,037; Dec. 20.
Match-scratcher. B. Baldwin. No. 60,007; Dec. 20.
Meter-box. T. E. Murray, Jr. No. 60,053; Dec. 20.
Percolator, Aluminum coffee-. H. A. Church. No. 60,011; Dec. 20.
Picture-frame. J. Kush. No. 60,045; Dec. 20.
Pipe holder, Smoking-. H. F. Stuhr. No. 60,069; Dec. 20.
Pressure-indicating gage. C. Gaston. No. 60,020; Dec. 20.
Printer's gage. D. Turtle. No. 60,073; Dec. 20.
Purse, Coin-. F. Petersen. No. 60,058; Dec. 20.
Respirator filter-ring. F. Willson. No. 60,078; Dec. 20.
Ring or similar article. J. W. Mayer. No. 60,047; Dec. 20.
Rubber heel. S. Massina. No. 60,048; Dec. 20.
Shell, Deep-body. H. T. Howell. No. 60,029; Dec. 20.
Shoe. V. Benedetti. No. 60,008; Dec. 20.
Soap, Cake of. S. Rasor. No. 60,060; Dec. 20.
Sock-retainer for boots and shoes. J. T. Cooper. No. 60,012; Dec. 20.
Socket-cover. W. R. Kahns. Nos. 60,033–4; Dec. 20.
Socket-cover. W. R. Kahns. No. 60,038; Dec. 20.
Telephone-receiver attachment. B. Wise. No. 60,080; Dec. 20.
Tobacco-pipe reamer. G. J. Meyers. No. 60,049; Dec. 20.
Toy gas-stove. L. C. Jones. No. 60,032; Dec. 20.
Toy vacuum device. G. J. Kaye. No. 60,041; Dec. 20.
Tub with a cover, Laundry-. G. F. Reznor. No. 60,061; Dec. 20.
Velocipede, Child's. J. K. Tully. No. 60,071; Dec. 20.
Wall-bracket and lamp, Combined. H. C. Adam. No. 60,005; Dec. 20.
X-Ray apparatus, Standard for. O. H. and A. F. Pieper. No. 60,059; Dec. 20.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Agricultural and milling machinery. J. B. Sedberry. No. 149,733; Dec. 20.
Apparel, Ladies' wearing. J. A. Goldstein. No. 149,776; Dec. 20.
Automobile bumpers. Milwaukee Auto Engine & Supply Company. No. 149,761; Dec. 20.
Automobile tops, radiator-covers, curtains, and cushions. Falls City Buggy Top Company. No. 147,670; Dec. 20.
Automobiles. C. H. Willis & Company. No. 149,749; Dec. 20.
Automobiles and chassis for automobiles, bicycles, and engines. Minerva Motors. No. 149,703; Dec. 20.
Bags made of leather, etc., &c. Knickerbocker Case Company. No. 149,767; Dec. 20.
Biscuit and crackers. National Biscuit Company. No. 149,705; Dec. 20.
Biscuit, crackers, and cake. National Biscuit Company. No. 149,707; Dec. 20.
Boats and parts thereof, Certain. Old Town Canoe Company. No. 149,753; Dec. 20.
Booklets and pamphlets, Printed. T. G. Cooke. Nos. 149,760–1; Dec. 20.
Brake-linings. Raybestos Company. No. 149,705; Dec. 20.
Bricklin. Chesnutt, Cooper & Co. No. 149,650; Dec. 20.
Butter and eggs. Detroit Beef Company. No. 149,663; Dec. 20.
Butterine, Cod-. Baer & Wilde Co. No. 149,753; Dec. 20.
Calcareous composition for soil improvement. Security Cement & Lime Co. No. 149,742; Dec. 20.
Candy. Manufacturing Company of America. No. 149,664; Dec. 20.
Candy. A. E. Perkins Jr. No. 149,713; Dec. 20.
Candy. Stollwerck Chocolate Company. Nos. 149,726–9; Dec. 20.
Candy in boxes. Harem Candy Co. No. 149,678; Dec. 20.
Candies. N. U. Katz. No. 149,680; Dec. 20.
Canned vegetables. Indianrieden Canning Co. No. 149,680; Dec. 20.
Cards, card and pictorial toys for teaching children simple words, Davis and Ford. No. 149,657; Dec. 20.
Cars, &c., Transmission apparatus and explosion-motors for motor-. Minerva Motors. No. 149,702; Dec. 20.
Cement, Hydraulic and high-temperature. King Refractories Corporation. No. 149,643; Dec. 20.
Cheese, and macaroni and cheese. J. L. Kraft & Bros. Co. No. 149,709; Dec. 20.
Chemicals and chemical preparations, Certain. L. D. Caulk Company. No. 149,719; Dec. 20.
Chilli sauce, chilli-con-carne, &c. Taylor Tamale Company. No. 149,743; Dec. 20.
Chocolate and cocoa, Milk. Peter Cailler Kohler Swiss Chocolates Co. No. 149,758; Dec. 20.
Cigars. Sociedad Anónima "Romeo y Julieta," Fábrica de Tabacos. No. 149,508; Dec. 20.
Clasps, Lingerie. Kastenmau Bros. Mfg. Co. No. 149,734; Dec. 20.
Coal. Roth Coal Company. No. 149,725; Dec. 20.
Coats, vests, trousers, and overcoats. M. Swartts & Sons. No. 149,805; Dec. 20.
Coffee. C. A. Herink. No. 149,679; Dec. 20.
Coffee, Raw. Tuffas & Bellion. Nos. 149,741–2; Dec. 20.
Coffee, Roasted. Young & Griffin Coffee Co. Inc. No. 149,750; Dec. 20.
Coffee, spices, mustard, fruit flavoring extract—namely, lemon. C. A. Murdock Mfg. Co. No. 149,706; Dec. 20.
Comminuting machinery. Allis-Chalmers Manufacturing Company. No. 149,629; Dec. 20.
Combs, Electrically-heated. B. Gale. No. 149,778; Dec. 20.
Corn, Cracked. Chas. A. Krause Milling Co. No. 149,601; Dec. 20.
Corsets, garters, girdles, bust-confiners, &c. Abelardo Querait, S. en C. No. 149,809; Dec. 20.
Cotton piece goods. Levinson Textile Co. No. 149,694; Dec. 20.
Dental, medical, and surgical appliances. E. Schmid Company. No. 149,801; Dec. 20.
Doll beds and cribs. Michigan Wire Goods Co. No. 149,699; Dec. 20.
Doughnuts. Gahan Baking Company. No. 149,675; Dec. 20.
Educational and amusement appliance, Child's. G. L. E. Klingbeil. No. 149,690; Dec. 20.
Electric controllers. Baker R & L Company. No. 149,754; Dec. 20.
Electric-light plants, Unitary. Eastlite Electric Company. No. 149,665; Dec. 20.
Embroideries or embroidered articles. Rechsteiner Embroidery Company. No. 149,720; Dec. 20.
Feed for horses, mules, cattle, hogs, and poultry. Beaumont Cotton Oil Mill Co. No. 149,637; Dec. 20.
Feed, Poultry. Kingan & Co. No. 149,785; Dec. 20.
Fertilizers. American Agricultural Chemical Company. No. 149,751; Dec. 20.
Fire-brick, hollow building tile, face-brick, &c. Crush Brick Company. No. 149,653; Dec. 20.
Fishing-lines. Marshall-Wells Company. No. 149,698; Dec. 20.
Flavorings for food. Lawrence Chemical Co. No. 149,693; Dec. 20.
Flavoring extracts, Food. C. F. Sauer Company. No. 149,760; Dec. 20.
Flour, Self-rising wheat-. City Mills Company. No. 149,651; Dec. 20.
Forgings, Steel drop-. Jefferson Forge Products Company. No. 149,682; Dec. 20.
Fruit preserves, pickled vegetables, relishes, &c. Glaser, Crandell Co. No. 149,775; Dec. 20.
Furniture, Certain household. Summerfield Company. No. 149,739; Dec. 20.
Game-board, game-indicator, game-counter, &c. E. Bruder. No. 149,644; Dec. 20.
Garages and houses, Sectional. C. H. Webber. No. 149,806; Dec. 20.
Garden implements, Certain hand. American Fork & Hoe Company. No. 149,752; Dec. 20.
Glare shields, Automobile. Protectoglare Co. No. 149,717; Dec. 20.
Gloves, Fabric and leather. Butler Brothers. No. 149,646; Dec. 20.
Gloves, Leather. Heller Leather Company. No. 149,780; Dec. 20.
Grinding and pulverizing mills. Bradley Pulverizer Co. No. 149,756; Dec. 20.
Gums, rubber cement, Repair. Federal Rubber Company, The. Nos. 149,671–3; Dec. 20.
Hair-nets and handkerchiefs. Gilman Bros. No. 149,676; Dec. 20.
Hair or wool, Animal. J. Ephraimson. No. 149,667; Dec. 20.
Hair-receivers, bottle holders, salve-jars, &c. Newark Tortoise Shell Novelty Co. No. 149,710; Dec. 20.
Hammers and wrenches. Henry Cheney Hammer Corporation. No. 149,649; Dec. 20.
Handkerchiefs. H. Engel & Sons. No. 149,668; Dec. 20.
Hides. A. F. Rees. No. 149,796; Dec. 20.
Hoists, engines, winches, &c., Certain. J. S. Mundy Hoisting Engine Co. No. 149,705; Dec. 20.
Horns, Electric. Schwarze Electric Company. No. 149,781; Dec. 20.
Horseshoes and horseshoe-calks. Bryden Horse Shoe Co. No. 149,645; Dec. 20.
Horseshoes and horseshoe-calks. Neverslip Manf. Co. No. 149,709; Dec. 20.
Ice-cream. Fayetteville Ice and Mfg. Co. No. 149,769; Dec. 20.
Incubators, brooders, and galvanized hovers, Chicken. Queen Incubator Company. No. 149,718; Dec. 20.
Inks, typewriter-ribbons, and inking-pads, Writing-. Buxton & Skinner Printing and Stationery Company. No. 149,647; Dec. 20.
Kumyss. Kumyss, Incorporated. No. 149,692; Dec. 20.
Lawn-sprinklers. Rainbow Lawn Sprinkler Company. No. 149,710; Dec. 20.
Laxative medicine. Williamson & Bright. No. 149,807; Dec. 20.
Leather material, Imitation-. B. Kay. No. 149,685; Dec. 20.
Lubricant and squeak cure. Halstead Specialties Co. No. 149,781; Dec. 20.
Magazine, Monthly. United Publishing Company. No. 149,744; Dec. 20.
Malt extracts. A. Wiclich. No. 149,747; Dec. 20.
Medicinal tablet for certain purposes. J. G. Dodson. No. 149,764; Dec. 20.
Metal parts; dust-collecting and tubbing machines, Machines for washing, pickling, and drying. W. Ely. No. 149,765; Dec. 20.
Milk, Condensed. Chas. T. Stork and Co. No. 149,787; Dec. 20.
Mouth-gage. G. F. Richter. No. 149,797; Dec. 20.
Mowers, Lawn-. Jacobsen Manufacturing Company. No. 149,631; Dec. 20.
Muslin, sheets, pillow-cases, Bleached. Cooper, Coate & Casey Dry Goods Co. No. 149,654; Dec. 20.
Nails, Clenching-. Geo. Baker & Sons. No. 149,684; Dec. 20.
Newspaper-section. The Dispatch Publishing Company. Nos. 149,661–2; Dec. 20.
Newspapers. News Syndicate Co. No. 149,711; Dec. 20.
Newspapers, Old. F. B. Dallam. No. 149,656; Dec. 20.
Oil, Flushing-. Standard Oil Company. No. 149,736; Dec. 20.
Oils and greases, Lubricating. Star Oil Company. No. 149,803; Dec. 20.
Oils, Lubricating, &c. American Oil Company. No. 149,631; Dec. 20.
Ovens, Bake-. G. S. Blodgett Company. Nos. 149,640–1; Dec. 20.
Paints and varnishes, &c. Renovite Corporation. No. 149,723; Dec. 20.
Paint, Corrosion, acid, and gas proof. Kingsbury Corporation. No. 149,689; Dec. 20.

Paper, Cover. Hampden Glazed Paper & Card Co. No. 149,677; Dec. 20
Paper, Printing. Blanden-Lyon Company. No. 149,642; Dec. 20.
Pattern-marking machines. J. A. Rosenfeld. No. 149,734; Dec. 20.
Periodical, Monthly. Philadelphia Operative Builders Association. No. 149,714; Dec. 20.
Phonographs, Reproducers and tone-arms for. Fletcher-Wickes Co. No. 149,770; Dec. 20.
Photolithographic prints. B. L. Makepeace, Incorporated. No. 149,772; Dec. 20.
Pipes, cigar and cigarette holders, smokers' articles, Smoking. Kaiser Pfeifen Pipe Company. No. 149,722; Dec. 20.
Porcelain used for filling teeth and making dental fixtures, &c. L. D. Caulk Company. No. 149,734; Dec. 20.
Preparation for diseases of the skin, External. C. H. Holycross. No. 149,752; Dec. 20.
Preparation for polishing finished surfaces. Da-Lite Products Co. No. 149,691; Dec. 20.
Preparation for relief of headache, &c. W. A. Kimball. No. 149,687; Dec. 20.
Preparation for removing old varnish, wax, dirt, grease, &c., Liquid. C. A. Walter. No. 149,745; Dec. 20.
Preparation of the casein of milk. Mead Johnson & Co. No. 149,683; Dec. 20.
Publications, Monthly. A. M. Collins Manufacturing Company. No. 149,694; Dec. 20.
Putty. Liberty Paint Co. No. 149,695; Dec. 20.
Rubber goods, Mechanical. Boston Belting Corporation. No. 149,643; Dec. 20.
Rubber sheetings. Kinzie Rubber & Manufacturing Co. No. 149,738; Dec. 20.
Rubber sponges. G. W. Helsham. No. 149,628; Dec. 20.
Rubber Urea. Coast Tire and Rubber Company. No. 149,693; Dec. 20.
Rugs, Grass. S. L. Strong. No. 149,775; Dec. 20.
Salve for skin disease. U. G. Ruff, Jr. No. 149,650; Dec. 20.
Sanitary toothbrush-receptacles. B. E. Morrison. No. 149,704; Dec. 20.
Sashes and frames for certain purposes. Caskey Dugree Mfg. Co. No. 149,737; Dec. 20.
Sewing, fur-beating, and cloth-cutting machines and parts thereof, and machine-needles. Frederick Osann Company. No. 149,771; Dec. 20.
Sheetings. Bencoe Exporting and Importing Co. No. 149,639; Dec. 20.
Shoe and leather polish. G. W. Baker. No. 149,725; Dec. 20.
Shoe machines and tools, Certain. United Shoe Machinery Corporation. No. 149,745; Dec. 20.
Shoes. A. Hass. No. 149,779; Dec. 20.
Shoes. Sherwood Shoe Company. No. 149,802; Dec. 20
Shoes, Leather. Fair. Nos. 149,767-8; Dec. 20.
Shoes, slippers, and oxfords. L. B. Evans' Sons Company. No. 149,766; Dec. 20.
Silk, &c., piece goods. Nonatuck Silk Company. No. 149,712; Dec. 20.
Silks in the piece, Dyed. J. A. Migel, Inc. No. 149,700; Dec. 20.
Skates, Ice and roller. Winchester Repeating Arms Co. No. 149,749; Dec. 20.
Soap. American Safety Razor Corporation. No. 149,633; Dec. 20.
Soap, Toilet. Orsham Bros. Soap Co. No. 149,778; Dec. 20.
Steel Siding. The Superior Sheet Steel Company. No. 149,740; Dec. 20.
Stems and cases, umbrella sticks and handles, &c. Waiting, Henry Stovall & Company Limited. No. 149,765; Dec. 20.
Suits and overcoats, Men's. Gamewear Clothing Company. No. 149,774; Dec. 20.
Syrup, Malt. Frontier Malt Products Co. of Utah. No. 149,718; Dec. 20.
Table and bed linen, towels, carpets, upholstery, Certain American Purchasing Corporation. No. 149,647; Dec. 20.
Tea. Lozano, Pastor and Co. No. 149,753; Dec. 20.
Teats and nipple shields. Lea Rubber Print & Awning Company. No. 149,650; Dec. 20.
Thread, Linen. Barbour Brothers Company. No. 149,758; Dec. 20.
Threshing machinery, &c. Frick Company. No. 149,674; Dec. 20.
Tires and non-skidding rubber sheets, Certain. B. F. Goodrich Company. No. 149,777; Dec. 20.
Tobacco washing machines. J. Livingston. No. 149,781; Dec. 20.
Tool and machine handles and ferrules. G. B. Doane. No. 149,665; Dec. 20.
Tooth-paste. E. G. Krupnick. No. 149,751; Dec. 20.
Torches, Cutting and welding. E. P. Prator. No. 149,794; Dec. 20.
Toy blocks, Flat-wood. Jonesco Manufacturing Co. No. 149,764; Dec. 20.
Trucks and car-bodies. Fairbanks Co. No. 149,646; Dec. 20.
Tuberculosis vaccin. H. Rosenberg. No. 149,789; Dec. 20.
Union suits, combination suits, undershirts, &c. Superior Underwear Company. No. 149,634; Dec. 20.
Valve-grinding compound. C. Shattuck. No. 149,734; Dec. 20.
Vanilla extract for food flavoring. K. Reinhart. No. 149,721; Dec. 20.
Varnishes. Egan and Hausman Company. No. 149,606; Dec. 20.
Varnishes. S. V. De Forest. No. 149,620; Dec. 20.
Vehicle parts and accessories, Certain. Mayberg Brothers. No. 149,647; Dec. 20.
Vehicle parts and accessories, Certain. Bayne Manufacturing Company. No. 149,648; Dec. 20.
Vehicle springs for. Shelton Axle & Spring Co. No. 149,779; Dec. 20.
Veterinary preparations. Carolina Remedial Company. No. 149,686; Dec. 20.
Water-softener. Rix Manufacturing Company. No. 149,758; Dec. 20.
Yard goods used in bedspreads, sheets, &c. L. S. Plant & Co. No. 149,715; Dec. 20.

ALPHABETICAL LIST OF LABELS.

"B. C. C. B." (For Caps, Hats, and Bonnets and Containers Therefor.) M. V. Brunk. No. 23,795; Dec. 20.
"C. O. D." (For Containers for Hosiery.) Real Silk Hosiery Mills. No. 23,825; Dec. 20.
"Camel Brand." (For Toilet-Paper.) Apex Paper Manufacturing Company, Inc. No. 23,787; Dec. 20.
"Clover Leaf Bakery." (For Bread. A. S. Beville. No. 23,798; Dec. 20.
"Couverchin." (For Guaranteed All-Wool Blankets.) R. H. Macy & Co. Inc. No. 23,808; Dec. 20.
"Dairymen's League Evaporated Milk." (For Evaporated Milk.) Dairymen's League Co-Operative Association, Inc. No. 23,797; Dec. 20.
"Dairymen's League Butter." (For Butter.) Dairymen's League Co-Operative Association. No. 23,796; Dec. 20.
"Dairymen's League Sweetened Condensed Milk." (For Condensed Milk.) Dairymen's League Co-Operative Association, Inc. No. 23,799; Dec. 20.
"Dated Coffee." (For Coffee.) R. Y. Bernhart. No. 23,792; Dec. 20.
"Dear Customer: Here are Suggestions for the Care of Real Silk Hose." (For Containers for Hosiery.) Real Silk Hosiery Mills. No. 23,823; Dec. 20.
"Dear Customer: Here are Suggestions for the Care of Real Silk Fashioned Hosiery." (For Containers for Hosiery.) Real Silk Hosiery Mills. No. 23,824; Dec. 20.
"Extra Select Diamond Brand." (For Boxes of Oranges.) The Bourk-Donaldson-Taylor Fruit Company. No. 23,794; Dec. 20.
"Family-Cup-Board." (For Boxes Containing Candy.) Milwaukee Paper Box Company. No. 23,812; Dec. 20.
"Fedeco." (For Containers for Hair-Tonic.) E. D. Robinson. No. 23,826; Dec. 20.
"Fedoco." (For Containers for Cocoanut Oil Shampoo.) E. D. Robinson. No. 23,827; Dec. 20.
"First National Beauty Complexion Wafers." (For Packages Containing Medicine for Treatment of Boils, Pimples, Blackheads, &c., Due to Constipation.) First National Pharmacy. No. 23,800; Dec. 20.
"Goody-Mints Candy." (For Candy.) G. L. Rawlins. No. 23,832; Dec. 20.
"Green & Green Cheese-It Crackers." (For Cartons in Which Cheese Crackers are Placed.) The Green and Green Company. No. 23,804; Dec. 20.
"Greyanion." (For Boxes Containing Assorted Chocolates.) Milwaukee Paper Box Company. No. 23,813; Dec. 20.
"Hannah's Tablets." (For Dyspepsia Tablets.) P. J. Hannah. No. 23,802; Dec. 20.
"Harvest Queen." (For Bread.) Sanitwax Paper Co. No. 23,828; Dec. 20.
"Imported Liptauer." (For Brindza Cheese, Otherwise Known as Imported Liptauer or Sheep-Milk Cheese.) The Purity Cream Cheese Co. No. 23,821; Dec. 20.
"Keno." (For Toilet-Paper.) Apex Paper Manufacturing Company, Inc. No. 23,790; Dec. 20.
"Knicker Kloth." (For Linen Cloth.) H. S. McKee. No. 23,809; Dec. 20.
"Knickerette." (For a Sanitary Bloomer-Protector.) The Soltesz Company. No. 23,830; Dec. 20.
"Lady Esther." (For Face-Powder.) Edna Coben. No. 23,796; Dec. 20.
"Lindsay-Strathmore." (For Pomegranates.) Lindsay-Strathmore Pomegranate Ass'n. No. 23,806; Dec. 20.
"Linn Brand." (For Toilet-Paper.) Apex Paper Manufacturing Company, Inc. No. 23,789; Dec. 20.
"Luxdbre." (For Moss for Upholstering Purposes.) Henry Wilhelm Co. No. 23,835; Dec. 20.
"Made to Wear Where the Wear is Hardest." (For Dry Paints, Paste Paints, and Ready-Mixed Paints.) Southern Cotton Oil Company, The. No. 23,832; Dec. 20.
"Necco Sweets." (For Candy.) New England Confectionery Co. No. 23,815; Dec. 20.
"New York Sheep Exhibition Cigar." (For Cigars.) H. & G. Metzner. No. 23,810; Dec. 20.
"Supremo." (For Moss for Upholstering Purposes.) Henry Wilhelm Co. No. 23,834; Dec. 20.
"Nuss Butter Cream Specialties." (For Cream Confections.) Nuss Confectionery Co., The. Nos. 23,816-6; Dec. 20
"Oso Washing Powder." (For Receptacles Containing Oso Washing Powder.) B. Heller & Co. No. 23,803; Dec. 20.
"Penn." (For Receptacles Containing Brass Goods.) Penn Brass Manufacturing Co. No. 23,819; Dec. 20.
"Pep Vino." (For Bottle as a General Tonic.) Scranton Drug Mfg. Co. No. 23,822; Dec. 20.
"Professional." (For Hair Nets.) Frankel & Smith, Inc. No. 23,801; Dec. 20.
"Ruby Red." (For Pomegranates.) Lindsay-Strathmore Pomegranate Ass'n. No. 23,807; Dec. 20.
"Square Deal Jewelers." (For Watches, Jewelry, and Diamonds.) Miller Bros. No. 23,811; Dec. 20.
"Sunflower." (For Oranges.) Mutual Orange Distributors. No. 23,814; Dec. 20.
"Superior Service." (For Paper Toweling.) Apex Paper Manufacturing Company, Inc. No. 23,788; Dec. 20.
"The House That Jack Built." (For Boxes Containing Doll-Houses.) Stoll & Edwards Co. Inc. No. 23,833; Dec. 20.
"The Tiny Tot Soap." (For Soap.) Bauer & Black. No. 23,791; Dec. 20.
"Tri A Mint." (For Candy Confections.) E. C. Philippa. No. 23,820; Dec. 20.
"Wearbest." (For Hair-Nets.) Hochschild Corporation. No. 23,805; Dec. 20.
"You'll Do Better Painting with Sco-Co." (For Dry Paints, Paste Paints, and Ready-Mixed Paints.) Southern Cotton Oil Company, The. No. 23,831; Dec. 20.

ALPHABETICAL LIST OF PRINTS.

"'A Rare Prune' Cupertino Brand." (For Advertising Purposes for Prunes.) J. D. Williams. No. 5,900; Dec. 20.
"Ask Sal—when that P. A. flavor gets to purring to your smoke appetite." (For Advertising Purposes for Smoking Tobacco.) R. J. Reynolds Tobacco Company. No. 5,894; Dec. 20.
"Corns Hurt." (For Advertising Purposes for Also Liquid Preparation to Remove Corns.) A. M. Kronheimer. No. 5,851; Dec. 20.
"Don't put your tires to this way." (For Advertising Purposes for Tire Pressure Gages.) A. Schrader's Son, Incorporated. No. 5,897; Dec. 20.
"First thing you do next—." (For Advertising Purposes for Smoking Tobacco.) R. J. Reynolds Tobacco Company. No. 5,874; Dec. 20.
"Frank Bacon Takes to Omar." (For Advertising Purposes for Cigarettes.) The American Tobacco Company. No. 5,878; Dec. 20.
"Fresher by a Day." (For Advertising Purposes for Milk.) Scott-Powell Dairies Inc. No. 5,896; Dec. 20.
"Get a Pipe! Get some P. A.—and get yours! (For Advertising Purposes for Smoking Tobacco.) R. J. Reynolds Tobacco Company. No. 5,895; Dec. 20.
"Layerwood." (For Advertising Purposes for Plywood and Wood Veneers.) John H. Crosby. No. 5,884; Dec. 20.
"Leo Ditrichstein holds an Omar." (For Advertising Purposes for Cigarettes.) The American Tobacco Company. No. 5,882; Dec. 20.
"Leon Errol holds his Omar like this." (For Advertising Purposes for Cigarettes.) The American Tobacco Company. No. 5,883; Dec. 20.
"Powerful, Dependable, Worthy of the Name." (For Advertising Purposes for Columbia Storage Batteries.) National Carbon Co., Inc. No. 5,892; Dec. 20.
"Raymond Hitchcock's hand holding an Omar." (For Advertising Purposes for Cigarettes.) The American Tobacco Company. No. 5,880; Dec. 20.
"The Bear Scene." (For Advertising Purposes for Jell-O, a Dessert Preparation.) The Genesee Pure Food Company. No. 5,887; Dec. 20.
"The Crowning Achievement of America's Oldest Automobile Manufacturers." (For Advertising Purposes for Automobiles.) The Haynes Automobile Co. No. 5,889; Dec. 20.
"The New England Scene." (For Advertising Purposes for Jell-O, a Dessert Preparation.) The Genesee Pure Food Company. No. 5,888; Dec. 20.
"The Parish Paster." (For Advertising Purposes for Jell-O, a Dessert.) The Genesee Pure Food Company. No. 5,885; Dec. 20.
"The Ranch Scene." (For Advertising Purposes for Jell-O, a Dessert Preparation.) The Genesee Pure Food Company. No. 5,886; Dec. 20.
"They Never Tire of Corn Flakes, When you give them—Kellogg's." (For Advertising Purposes for Kellogg's Toasted Corn Flakes.) Kellogg Toasted Corn Flake Company. No. 5,890; Dec. 20.
"Thirsty Fibre." (For Advertising Purposes for Paper Towels and Paper Napkins.) Scott Paper Company. No. 5,893; Dec. 20.
"'Tom' Masson holding an Omar." (For Advertising Purposes for Cigarettes.) The American Tobacco Company. No. 5,879; Dec. 20.
"William S. Hart holds an Omar." (For Advertising Purposes for Cigarettes.) The American Tobacco Company. No. 5,881; Dec. 20.
"Yes, Sir, you'll say a pipe packed with P. A. has 'em all backed clear off the map!" (For Advertising Purposes for Smoking Tobacco.) R. J. Reynolds Tobacco Company. No. 5,893; Dec. 20.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Accumulators and parts thereof, Electric. Accumulatoren-Fabrik Aktiengesellschaft. Nos. 150,052-8; Dec. 20.
Air-compressors. Gaul, Derr & Shearer Company. No. 151,945; Dec. 20.
Antiseptics and deodorizers. Dairy Laboratories. No. 153,281; Dec. 20.
Aprons, R. H. Macy & Co. Nos. 148,286-9; Dec. 20.
Aprons, ladies' and children's dresses, bath-robes, capes, &c. S. D. Friedman. No. 148,446; Dec. 20.
Asthma cure. S. F. Harker. No. 138,041; Dec. 20.
Automobile, furniture, &c., Cleaning and dressing liquid polish for. E. Engson. No. 147,718; Dec. 20.
Automobile-polish. Three Star Non-Rub Auto Gloss Mfg. Co. No. 150,205; Dec. 20.
Automobile-tops, Preservative or dressing stain for. Preservotop Auto Specialty Co. No. 152,445; Dec. 20.
Barrels with sheet-rubber linings. American Chemical Paint Company. No. 147,310; Dec. 20.
Bathing-suits. Myers Manufacturing Co. No. 149,473; Dec. 20.
Batteries, Dry. Langguth-Olsen Co. No. 153,817; Dec. 20.
Batteries, Storage. Ray Battery Company. No. 137,960; Dec. 20.
Battery-separator. E. P. Fay. No. 153,347; Dec. 20.
Beer extract, Non-alcoholic. Pierre Lemoipe Cie. No. 151,331; Dec. 20.
Beverage and syrups for making same, Non-intoxicating, maltless fruit. Chicago Fountain Soda Water Company. No. 152,545; Dec. 20.
Beverage, Maltless powder for making a non-alcoholic. A. Fonyo. No. 147,103; Dec. 20.
Beverage, Non-alcoholic maltless. Orange Smile Sirup Company. No. 151,556; Dec. 20.
Beverages. Pittsburgh Brewing Company. No. 131,983; Dec. 20.
Beverages and mineral-spring waters, Non-alcoholic. Nemasket Mineral Spring Company. No. 151,590; Dec. 20.
Beverages and syrups for flavoring same. Eng-Skell Company. No. 142,927; Dec. 20.
Beverages, Maltless non-cereal. Carse & Ohlweiler Co. No. 152,542; Dec. 20.
Beverages, Non-alcoholic maltless. Standard Bottling Co. No. 153,056; Dec. 20.
Bloomers. Vanity Fair Silk Mills. No. 140,225; Dec. 20.
Books, Protective coverings for. A. T. Walraven Book Cover Company. No. 152,061; Dec. 20.
Boots and shoes. United States Rubber Company. No. 148,679; Dec. 20.
Boots, shoes, and slippers. Abbott Shoe Company. No. 147,759; Dec. 20.
Boots, shoes, and slippers, Leather. W. H. McElwain Company. No. 152,960; Dec. 20.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Boots, shoes, overshoes, sandals, and hosiery. E. L. Hine. No. 147,959; Dec. 20.
Boxes and packing-cases. Wireboards Corporation. (now by change of name —) — One Box Machine Makers.) No. 126,894; Dec. 20.
Boxes, Assembled wooden. McPherson & Foster Co. No. 142,800; Dec. 20.
Boxes, Wooden. John Schroeder Lumber Co. No. 149,869; Dec. 20.
Bracelets. Ideal Jewelry Manufacturing Co. No. 151,218; Dec. 20.
Bread-boxes. A. Kremmer Inc. No. 153,986; Dec. 20.
Brooms. Atlantic Southwestern Broom Co. No. 142,464; Dec. 20.
Brooms. Atlantic Southwestern Broom Co. No. 142,466; Dec. 20.
Brooms. Southwestern Broom Mfg. Co. No. 152,284; Dec. 20.
Brooms, floor and glass brushes, &c., Street and house. Thomson-Diggs Company. No. 148,180; Dec. 20.
Brushes. Doniger & Company. No. 151,036; Dec. 20.
Brushes, Toilet-. Geo. R. Gibson Co. No. 140,896; Dec. 20.
Buckles, Belt-. Riker Company. No. 151,787; Dec. 20.
Butter. Nederlandsche Coöperatieve Zuivelverkoopcentrale. No. 146,922; Dec. 20.
Butter. S. B. Poland. No. 151,020; Dec. 20.
Butter, eggs, dressed poultry. E. C. Grady Produce Company. No. 150,613; Dec. 20.
Cards, Playing-. United States Playing Card Company. No. 150,167; Dec. 20.
Catamenial bandages. Junoform Company. No. 147,024; Dec. 20.
Cataract, Apparatus for the complete extraction of. I. Barraquer Barraquer. No. 150,506; Dec. 20.
Caustic soda, chlorates, &c. United Alkali Co. Nos. 152,451–2; Dec. 20.
Chemicals, medicines, and pharmaceutical preparations. Upjohn Company. No. 153,747; Dec. 20.
Chiffon-velvet in piece goods. H. Kats. No. 150,823; Dec. 20.
Cigarettes. Bloch Bros. Tobacco Co. No. 141,249; Dec. 20.
Cigarettes. Bloch Bros. Tobacco Co. No. 141,665; Dec. 20.
Cigarettes and cigarette-tobacco. J. M. Berberian. No. 149,500; Dec. 20.
Cigarettes, cigars, tobacco. "Turmac" Turkish Macedonian Tobacco Company. No. 139,101; Dec. 20.
Cigars. Coast Specialty Co. No. 141,551; Dec. 20.
Cigars. B. Midulla. No. 145,169; Dec. 20.
Cigars. M. Moskowitz. No. 139,043; Dec. 20.
Cigars. R. P. Sheeter. No. 135,825; Dec. 20.
Cigars. E. G. Sullivan Estate. No. 144,259; Dec. 20.
Cigars. John W. Surbrug, Inc. No. 134,152; Dec. 20
Cigars. G. W. Van Slyke & Horton. No. 140,762; Dec. 20.
Cigars, cigarettes, and tobacco. M. Melachrino Co. Inc. No. 152,616; Dec. 20.
Citrate of magnesia, Powdered. Santerbe Perfumery Manufacturer Inc. No. 132,413; Dec. 20.
Clocks and parts thereof. Gebrüder Junghans, A. G. No. 149,451; Dec. 20.
Clocks, watches, and parts thereof. Gebrüder Junghans, A. G. No. 144,802; Dec. 20.
Clocks, watches, and parts thereof. Gebrüder Junghans, A. G. No. 149,460; Dec. 20.
Clothing, Men's and boys outer. Strawbridge & Clothier. No. 149,081; Dec. 20.
Clothing, Men's and young men's. P. H. Davis Tailoring Company. No. 146,069; Dec. 20.
Coasters and play-wagons. H. C. White Company. No. 146,103; Dec. 20.
Coasters for children. H. C. White Company. No. 146,102; Dec. 20.
Coats, Fur. Morris Levy & Brother. No. 145,523; Dec. 20.
Coats, trousers, vests, overcoats. John Bond Tailoring Co. No. 142,314; Dec. 20.
Corsets, brassières, &c. American Lady Corset Co. No. 148,640; Dec. 20.
Cosmetics or liquid rouge. A. A. Johnson. No. 153,059; Dec. 20.
Cotton piece goods. Brune, Pottberg & Co. No. 151,902; Dec. 20.
Cotton piece goods. Brune, Pottberg & Co. No. 151,904; Dec. 20.
Cotton piece goods. Texas Cotton Mill Co. No. 154,892; Dec. 20.
Crackers, Chocolate-coated. Green and Green Company. No. 147,106; Dec. 20.
Cravats, Men's and boys'. Mayer-Mueller-Goodman Co. No. 149,713; Dec. 20.
Decolorisation, Substance for use in manufacture for. Klarit Limited. No. 152,426; Dec. 20.
Dentifrice. E. C. Noonan. No. 152,029; Dec. 20.
Dolls. C. L. Gloebrenner. No. 133,051; Dec. 20.
Dolls. B. H. Scotford. No. 136,316; Dec. 20.
Dresses, Children's. "Peggy Ware" Children's Dress Co. No. 148,899; Dec. 20.
Dresses, Children's and misses'. L. Borgenich. No. 148,867; Dec. 20.
Dresses, Children's and misses'. Meyers & Cohen. No. 148,862; Dec. 20.
Dresses, shirts, waists &c. Wormser's silk. J. J. Misal, Inc. No. 140,342; Dec. 20.
Dyes and dyestuffs. Grasselli Chemical Company. Nos. 152,876–8; Dec. 20.
Dyestuffs, Coal-tar. National Aniline & Chemical Company. No. 145,117; Dec. 20.
Ejectors, Liquid. R. F. Gurnsey. No. 148,739; Dec. 20.
Electric-lighting fixtures. Art Craft Fixture Co. No. 141,248; Dec. 20.
Electrical secondary batteries. A. E. Phillips. No. 153,472; Dec. 20.
Electrically-driven beating and mixing machines. Hobart Manufacturing Company. No. 154,400; Dec. 20.
Fire-lines, Braided. B. F. Gladding & Co. No. 154,444; Dec. 20.
Fishing-lines, Silk. B. F. Gladding & Co. No. 154,548; Dec. 20.
Fishing-lines, Waterproof braided. B. F. Gladding & Co. No. 154,447; Dec. 20.
Floor-covering. Morton Nusdour Fabrics Ld. No. 147,205; Dec. 20.
Flour, Prepared. T. A. Faulds Company. No. 152,005; Dec. 20.
Flour, Self-rising. Dulle-Meyer Milling Company. No. 151,797; Dec. 20.
Flour, Self-rising. Ford Flour Company. No. 153,742; Dec. 20.
Flour, Wheat. Ipswich Milling Co. Nos. 151,008–9; Dec. 20.
Flour, Wheat-. Pattison & Co. No. 152,022; Dec. 20.
Flour, Wheat-. Randolph Milling Company. No. 147,812; Dec. 20.
Game-boards in the nature of fortune-telling wheels. B. N. Hennigan. No. 147,316; Dec. 20.
Gasoline and kerosene. Kon. Ned. Maatschappij tot Exploitatie van Petroleumbronnen in Ned. Indië. No. 104,582; Dec. 20.
Gems, Artificial. R. Richter. No. 132,214; Dec. 20.
Glass armlets. H. Mertens. Nos. 139,621–2; Dec. 20.
Gloves. S. Scilkeo. No. 136,484; Dec. 20.
Gloves and hosiery and women's underwear, Fabric for. Van Raalte Company. No. 148,567; Dec. 20.
Grips, satchels, trunks, &c. Seattle Suit Case Manufacturing Co. No. 154,117; Dec. 20.
Gymnastic apparatus for children. Drive Ello Co. No. 153,176; Dec. 20.
Hair-nets. J. Fleischer. No. 153,017; Dec. 20.
Hair-nets. B. Lichtig & Son. No. 150,179; Dec. 20.
Hair nets, Human-. Première Import Company. No. 152,997; Dec. 20.
Hair-shampoo. Mar velle Toilet Company. No. 153,188; Dec. 20.
Hair-switches. L. B. Hair Tonic Co. No. 154,084; Dec. 20.
Hats and caps. Siegel Brothers. No. 147,[illegible]; Dec. 20.
Hats, caps, gloves, and mittens, Men's. Keith Brothers & Co. No. 148,604; Dec. 20.
Hats for ladies. Weyman Brothers. No. 148,318; Dec. 20.
Hats, Ladies'. Phil Berlinger & Co. No. 151,[illegible]; Dec. 20.
Hemostatic tablets and hemoalkalizer-tablets. A. Dare. No. 146,200; Dec. 20.
Hosiery. Hart Bros. No. 148,328; Dec. 20.
Hosiery. M. T. Lewis. No. 149,503; Dec. 20.
Hosiery. Norristown Hosiery Mills. No. 149,554; Dec. 20.
Hosiery. Rambo & Regar, Incorporated. No. 149,295. Dec. 20.
Hosiery. Whitehead Hosiery Mills, Inc. No. 148,407; Dec. 20.
Hosiery. Winkelman Brothers. No. 147,490; Dec. 20.
Ignition-timers, Engine. Enterprise Brass and Plating Company. No. 148,722; Dec. 20.
Infants' wear. Dorros Bros. Incorporated. No. 147,096; Dec. 20.
Insecticides and destroyer for all insects. M. Ingalsbee. No. 148,816; Dec. 20.
Insecticides and fungicides. Dow Chemical Company. No. 153,448; Dec. 20.
Insecticides, rodent-poisons, insect preventives. Enos Chemical Company. No. 145,776; Dec. 20.
Knitted woollen fabrics in the piece. Rich Stamping Knitting Mills Company. No. 152,890; Dec. 20.
Knives, Pocket-. F. Biffar. Nos. 130,[illegible]–8; Dec. 20.
Lamps, Electric-arc. M. J. Wohl & Co. No. 154,[illegible]; Dec. 20.
Laundrying tablets, Clothes-. Pixie Corporation. No. 153,258; Dec. 20.
Laxative. S. Strauss. No. 153,229; Dec. 20.
Ligatures and sutures. Mayo Inc. No. 147,[illegible]; Dec. 20.
Liniment for rheumatism, cuts, burns, &c. C. T. Keller. No. 141,909; Dec. 20.
Links, cuff-buttons, &c., Separable. Craft and Newton Incorporated. No. 150,960; Dec. 20.
Lotion, Skin-. A. C. Graves. No. 153,723; Dec. 20.
Malt extract. L. Page. No. 153,364; Dec. 20.
Malt extract. N. Salman. No. 149,[illegible]; Dec. 20.
Massaging-cup. Thompson-Barlow Company. No. 149,038; Dec. 20.
Matches. Standard Match Corporation. No. 153,699; Dec. 20.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Medicinal and pharmaceutical preparations. S. Pfeiffer Mfg. Co. No. 145,711; Dec. 20.
Medicinal preparation. W. P. Wallace. No 152,223; Dec. 20
Medicine for rheumatism, indigestion, &c. J. L. Herpich. No. 153,458; Dec. 20.
Medicine for treatment of pimples, ulcers, &c. H. F. Horman. No 153,249; Dec. 20.
Metals, Preparation for preserving the surface of. Izen Company. No. 151,217; Dec. 20.
Mop-wringers. Peter Boller Machine Works. No. 142,685; Dec. 20.
Mops. Tate Manufacturing Company. No. 150,119; Dec. 20.
Newspaper-section. Tribune Company. No. 147,054; Dec. 20.
Oil-cloth, linoleum, &c. Texoleum Company of N. Y. No. 154,823; Dec. 20.
Oil, Illuminating-. Consolidated Producers and Refiners Co. No. 131,147; Dec. 20.
Oil, Lubricating-. Sinclair Refining Company. No. 141,029; Dec. 20.
Oils derived from petroleum, petrolatums, &c., Medicinal. Atlantic Refining Company. No. 148,688; Dec. 20.
Oils, Heavy, medium, and light lubricating-. Consolidated Producers and Refiners Co. No. 131,148; Dec. 20.
Ointment for the skin. J. J. Moore. No. 134,972; Dec. 20.
Overalls. Portland Overall Manufacturing Company. No. 148,848; Dec. 20.
Overcoats. Hodgman Rubber Company. No. 149,640; Dec. 20.
Packing machines for tobacco and cigarettes, envelop and bag machines, &c. Aktiebolaget Gerh. Arehns Mekaniska Verkstad. No. 146,244; Dec. 20.
Paint. American Paint & Putty Co. No. 141,345; Dec. 20.
Paintbrushes, scratch-brushes, and dusters for painters' use. Sherwin-Williams Company. No. 137,052; Dec. 20.
Paper, Bond, ledger, &c. Fischel Paper Co. No. 149,277; Dec. 20
Paper, commercial stationery, &c., Writing and printing. Laubacher Envelope Company. No. 154,751; Dec. 20.
Paper, Kraft wrapping. Industrial Paper Company. No. 150,616; Dec. 20.
Paper, paper napkins, towels, and tablecloths, Toilet-. Fort Howard Paper Company. Nos. 152,839–40; Dec. 20.
Paper, Writing and printing. William G. Willman Paper Co. No. 154,770; Dec. 20.
Papers, Book-. Stone & Andrew Inc. No. 154,700; Dec. 20.
Papers, Ledger, bond, and book. Stone & Andrew. No. 154,328; Dec. 20.
Papers, Waxed and transparent. Package Paper & Supply Corporation. No. 148,948; Dec. 20.
Papers, writing, bond, and ledger, Flat. Kellogg & Bulkeley Company. No. 154,564; Dec. 20.
Pencil and cigar-lighter, Combination. I. M. Schiff. No. 150,634; Dec. 20.
Pencils, leads, and erasers. Brown & Bigelow. No. 153,006; Dec. 20.
Pencils, rubber and soap erasers, &c. Blaisdell Pencil Company. Nos. 154,635–6; Dec. 20.
Perfumeries, sachet-powders, and cosmetics, &c. Steinfels Frères Nos. 147,796–9; Dec. 20.
Perfumery, toilet water, face-powder, &c. Atlanta Barbers' Supply Co. No. 142,194; Dec. 20.
Petticoats. United Royalties Corp. No. 148,776; Dec. 20.
Pharmaceutical compound rich in yeast vitamins, &c., Refined. E. J. Reefer. No. 153,695; Dec. 20.
Phonographs and phonograph records. Burns-Pollock Electric Manufacturing Company. No. 153,712; Dec. 20.
Pike-poles, cant-hooks, linemen's tools and materials, &c. Western Electric Company. No. 111,636; Dec. 20.
Pills to aid digestion. J. T. Hendersbot. No. 151,713; Dec. 20
Pins, Solid headed. N. Solow. No. 149,240; Dec. 20.
Playthings, Metal. Metallic Industries, Inc. No. 140,607; Dec. 20.
Polishing mitts, &c., Automobile and stove. L. Myers. No. 143,135; Dec. 20.
Potential detectors. Westinghouse Lamp Company. No. 152,588; Dec. 20.
Pottery. Hand-made. W. Moorcroft Limited. No. 141,914; Dec. 20.
Powder, Toilet and baby. C. Niederer. No. 152,028; Dec. 20.
Preparation for treatment of kidney, liver, and bladder trouble. E. L. Patch Company. No. 153,471; Dec. 20.
Preparation for treatment of nausea, &c. W. E. Benson. No. 153,506; Dec. 20.
Pumps, Electric water-supply. Humphryes Manufacturing Company. No. 145,689; Dec. 20.
Radiators, Electric steam-. Scheeline Manufacturing Company. No. 154,707; Dec. 20.
Radio receiving apparatus. Radio Corporation of America. No. 154,767; Dec. 20.
Remedy to take off superfluous fat and reduce weight. G. J. Hurwitt. No. 150,402; Dec. 20.
Rice. Rice Products Co. No. 150,025; Dec. 20.
Root-beer, ginger-ale, cream-soda, &c. Purity Crystal Rock Mineral Spring Water Co. No. 134,975; Dec. 20.
Rope, Manila. Whitlock Cordage Co. No. 153,748; Dec. 20.
Rope, Sisal. Whitlock Cordage Co. No. 153,749; Dec. 20.
Rubber heels. Twin Tube & Rubber Company. No. 117,824; Dec. 20.
Rubber sheeting. A. Stein and Company. No. 153,372; Dec. 20.
Salt nutritive, Blood. E. Bukowski. No. 153,429; Dec. 20.
Shirts. Rauh Bros. & Co. No. 145,477; Dec. 20.
Shirts and boys' shirts and blouses, Men's. Bob & Baskind. No. 140,923; Dec. 20.
Shirts, bath-robes, gloves, &c. Brown Durrell Co. No. 141,939; Dec. 20.
Shirts, Flannel. Baker-Poston-Hemphill & Co. No. 136,020; Dec. 20.
Shirts, Men's outer. Spokane Dry Goods Company. No. 147,128; Dec. 20.
Shirts, pajamas, underwear, Night-. Tyson Shirt Company. No. 136,731; Dec. 20.
Shoes, Athletic. Oliver Bros. No. 146,890; Dec. 20.
Shoes, Leather. Hersfeld-Phillipson Company. No. 136,557; Dec. 20.
Shoes, Leather. London Shoe Co. No. 152,570; Dec. 20.
Shoes, Leather. L. Sells. No. 148,899; Dec. 20.
Shoes, Leather. M. A. Smith's Sons. No. 149,826; Dec. 20.
Shoulder and body brace. W. D. Hardy. No. 148,067; Dec. 20.
Sidewalks, floors, &c., Prepared mixture for the construction of. Cleveland Builders Supply and Brick Company. No. 126,170; Dec. 20.
Silk piece goods. H. R. Mallinson & Co. No. 155,026; Dec. 20.
Silks in the piece. Jansen & Pretzfeld, Inc. No. 155,060; Dec. 20.
Soap. Coco Soap Company. No. 154,349; Dec. 20.
Soap. Peet Bros. Manufacturing Company. No. 153,257; Dec. 20.
Soda-water and syrup for making same, Bottled. Tutti Frutti Beverage Company. No. 152,192; Dec. 20.
Soles, Cut-leather. R. S. Lawrence. No. 135,479; Dec. 20.
Steel-bar handles for tools. Borden Company. No. 137,805; Dec. 20.
Storage batteries. E. I. Duschnes. No. 153,342; Dec. 20.
Suits, Men's ready-made. G. W. Greig. No. 149,454; Dec. 20.
Syrup from which a soft-drink beverage is made. H. O. Hurley Company. No. 151,915; Dec. 20.
Syrups and flavoring extracts, Fountain. Langley & Michaels Co. No. 131,741; Dec. 20.
Talking-machine records and music-rolls. Arto Co. No. 145,490; Dec. 20.
Telephone-mufflers. Mute-A-Phone Corporation. No. 153,890; Dec. 20.
Tires, Leak-proof composition for. Two Star Mfg. Co. No. 151,892; Dec. 20.
Tobacco and cigarettes. Liggett & Myers Tobacco Company. No. 136,300; Dec. 20.
Tobacco, Leaf-. Universal Leaf Tobacco Co. No. 143,303; Dec. 20.
Tobacco, Smoking-. Zorro Tobacco Co. No. 143,525; Dec. 20.
Tonic, General. Society of Chemical Industry in Basle. No. 149,937; Dec. 20.
Tooth-paste, astringent lotions, and washes for the teeth and mouth. F. J. Austin. No. 144,061; Dec. 20.
Toy motion-picture machine. Keystone Mfg. Co. No. 148,787; Dec. 20.
Toys, Electrical constructional. Meccano Limited. No. 153,647; Dec. 20.
Tractors and pumps. Aro Tractor Company. No. 152,054; Dec. 20.
Trout and bass lines and waterproof fishing-lines, Braided. B. F. Gladding & Co. No. 154,552; Dec. 20.
Trunks and suitcases, Shwayder Trunk Manufacturing Company. No. 144,547; Dec. 20.
Undergarments, night-gowns, envelop-chemise, &c., Women's. D. E. Sicher & Company. No. 148,626; Dec. 20.
Underwear, Knit. Utica Knitting Company. No. 149,365; Dec. 20.
Underwear, men's neckwear, gloves, belts, &c., Men's and children's. Rauh Bros. & Co. No. 145,478; Dec. 20.
Valves, hydraulic and pneumatic valves, metal buckets, saucepans, &c., Steam-. Hadfields Limited. No. 136,258; Dec. 20.
Varnish. O'Brien Varnish Company. No. 152,579; Dec. 20.
Varnishes, stains, paint enamels, paints, &c. Sherwin-Williams Company. No. 147,135; Dec. 20.
Vehicle-signals. Stover Signal Engineering Company. No. 150,874; Dec. 20.
Vehicles, Electric signal-horns for motor-. North East Electric Company. No. 154,842; Dec. 20.
Violins, cellos, ukuleles, &c. F. M. Andreas. No. 151,603; Dec. 20.
Warons, Play-. H. C. White Company. No. 146,100; Dec. 20.
Washing compound, Ammonia. Pacific Chemical Company. No. 154,236; Dec. 20.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 3, 1907.]

Watch-springs. Les Fils De Rubin-Maire. No. 146,640; Dec. 20.

Watches, watch movements, dials, and cases. Adolphe Schwob, Inc. No. 145,651; Dec. 20.

Water, Mineral-spring. H. S. Jenner. No. 150,069; Dec. 20.

Water, Natural mineral. Medicinal Springs Corporation. No. 150,866; Dec. 20.

Waterproof coats. A. J. Tower Company. No. 149,565; Dec. 20.

Windshield-cleaning devices. Doughty Mfg. Company. No. 152,503; Dec. 20.

Wine, Champagne. L. O. Roederer. No. 145,132; Dec. 20.

Wireless apparatus. J. D. R. Freed. No. 150,598; Dec. 20.

Wool-corduroy piece goods. C. Bahnsen & Co. No. 155,149; Dec. 20.

Wool-velour coating piece goods. C. Bahnsen & Co. Nos. 155,141–2; Dec. 20.

Wool-velour coating piece goods. C. Bahnsen & Co. No. 155,145; Dec. 20.

Wool-velour coating piece goods. C. Bahnsen & Co. No. 155,148; Dec. 20.

Wool-velour coating piece goods. C. Bahnsen & Co. Nos. 155,150–2; Dec. 20.

Wool-velour coating piece goods. C. Bahnsen & Co. Inc. No. 155,154; Dec. 20.

Woolen piece goods. Forstmann & Huffmann Company. Nos. 153,083–4; Dec. 20.

Worsted yarns in the piece. Mayflower Worsted Company. No. 153,093; Dec. 20.

CLASSIFICATION OF PATENTS

ISSUED DECEMBER 20, 1921.

NOTE.—First number—class, second number—subclass, third number—patent number.

1— 4: 1,400,843
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33: 1,400,864
2— 41: 1,400,881
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481: 1,401,093
123— 19: 1,401,095
33: 1,401,089
57: 1,400,746
119: 1,400,955
140: 1,401,033
148: 1,400,581
149: 1,400,581
1,401,038
169: 1,400,524
1,400,525
171: 1,400,592
175: 1,400,896
178: 1,400,925
195: 1,400,889
126— 18: 1,400,569
36: 1,400,558
99: 1,400,831
179: 1,400,722
254: 1,400,719
341: 1,400,789
128— 15: 1,400,854
20: 1,400,616
57: 1,400,547
74: 1,400,546
78: 1,401,056
322: 1,400,653
341: 1,400,648
129— 41: 1,400,891
130— 1: 1,400,688
18: 1,401,039
131— 55: 1,401,106
132— 36: 1,400,637
41: 1,400,812
45: 1,401,070
84: 1,400,954
134— 12: 1,400,579
24: 1,401,023
27: 1,400,826
39: 1,401,084
135— 51: 1,400,600
137— 21: 1,400,511
53: 1,401,048
92: 1,401,002
139: 1,401,032
157: 1,400,550
139— 36: 1,400,711
66: 1,400,941
140— 73: 1,400,937
93: 1,400,724
1,401,025
123.5: 1,400,986
141— 7: 1,400,797
1,400,894
144— 203: 1,400,864
279: 1,400,943
280: 1,400,801
309: 1,400,983
145— 34: 1,400,573
146— 3: 1,401,047
7: 1,401,079
151— 21: 1,400,545
152— 8: 1,401,045
14: 1,400,895
18: 1,401,061
21: 1,400,958
1,401,015
23: 1,400,915
28: 1,400,844
37: 1,400,807
153— 66: 1,400,764
154— 2: 1,400,899
4: 1,400,538
155— 5: 1,400,717
43: 1,401,083
45: 1,400,718
52: 1,400,875
1,400,974
90: 1,401,027
160: 1,400,925
174: 1,401,019
156— 22: 1,400,720
158— 36: 1,400,906
45.5: 1,400,636
46.5: 1,400,727
76: 1,400,657
164— 20: 1,401,108
49: 1,400,777
166— 20: 1,400,765
1,400,996
168— 19: 1,401,074
169— 27: 1,400,908
170— 107: 1,401,077
122: 1,400,905
171— 97: 1,400,811
119: 1,400,847
229: 1,401,729
1,401,049
282: 1,401,112
313: 1,400,856
321: 1,401,016
324: 1,400,779
332: 1,400,049
334: 1,400,803
335: R. 15,251
338: 1,401,021
175— 298: 1,400,950
335: 1,400,603
355: 1,400,606
177— 339: 1,401,087
178— 33: 1,400,998
179— 4: 1,400,732
27: 1,400,590
48: 1,400,583
171: 1,400,591
180— 9.1: 1,400,690
9.2: 1,400,689
17: 1,400,694
20: 1,400,984
53: 1,400,720
1,400,971
73: 1,401,043
90: 1,400,623
181— 0.5: 1,401,024
27: 1,400,985
183— 3: 1,401,100
1,401,101
1,401,116
7: 1,400,795
42: 1,400,800
184— 88: 1,400,804
89: 1,400,871
103: 1,401,061
186— 1: 1,400,948
187— 49: 1,400,721
188— 12: 1,400,869
32: 1,400,785
1,400,786
80: 1,401,005
98: 1,400,863
1,401,111
205: 1,400,986
188— 78: 1,400,683
86: 1,400,882
191— 59.1: R. 15,252
75: 1,400,681
62: 1,400,557
107: 1,400,565
116: 1,400,638
1,401,009
193— 40: 1,400,658
44: 1,400,609
194— 93: 1,400,773
196— 26: 1,400,800
197— 6.5: 1,400,574
136: 1,400,965
138: 1,401,103
151: 1,400,702
198— 133: 1,400,725
226: 1,400,766
199— 68: 1,400,726
200— 19: 1,400,929
45: 1,400,928
60: R. 15,249
80: 1,400,570
87: 1,401,071
122: 1,400,914
131: 1,400,933
1,401,004
132: 1,400,660
1,400,661
140: 1,400,586
204— 31: 1,400,959
38: 1,400,513
58: 1,401,035
206— 20: 1,400,904
59: 1,400,529
208— 45: 1,400,967
97: 1,401,032
113: 1,400,917
210— 51: 1,400,922
66: 1,400,932
211— 8: 1,400,514
20: 1,401,084
24: 1,400,987
31: 1,400,619
1,400,677
32: 1,400,521
33: 1,400,742
212— 58: 1,400,640
214— 39: 1,400,611
67: 1,400,543
68: 1,400,968
215— 45: 1,400,918
217— 66: 1,400,624
219— 6: 1,400,846
19: 1,400,686
27: 1,400,784
31: 1,401,104
34: 1,400,859
39: 1,400,526
40: 1,400,646
220— 17: 1,401,090
55: 1,400,515
66: 1,400,695
221— 74: 1,400,957
80: 1,401,094
102: 1,400,770
108: 1,400,757
224— 29: 1,401,031
41: 1,400,758
226— 84: 1,400,556
229— 85: 1,400,809
1,400,946
230— 6: 1,400,813
27: 1,400,755
1,401,102
36: 1,400,551
232— 57: 1,400,823
234— 10: 1,400,895
235— 60: 1,400,610
1,400,842
78: 1,400,584
236— 4: R. 15,247
8: 1,400,667
14: 1,400,549
238— 14: 1,401,092
73: 1,400,737
240— 1: 1,401,036
2: 1,400,694
3: 1,400,990
8.5: 1,400,775
1,400,819
41: 1,400,926
48.4: 1,400,820
62: 1,400,975
103: 1,400,817
242— 72: 1,400,986
75: 1,400,827
85: 1,400,821
244— 12: 1,400,582
21: 1,401,040
22: 1,400,735
29: 1,400,916
31: 1,400,620
1,400,745

246— 19: 1,400,592
33: 1,400,594
454: 1,401,060
247— 25: 1,400,824
248— 13: 1,400,993
29: 1,401,059
30: 1,401,073
41: 1,401,798
250— 8: 1,400,617
34: 1,400,695
251— 6: 1,400,813
49: 1,400,944
93: 1,400,647
95: 1,401,097
135: 1,400,678
253— 16.5: 1,400,799
161: 1,400,822
254— 1: 1,400,995
42: 1,401,099
85: 1,401,324
159: 1,401,055
255— 1: 1,400,992
12: 1,401,701
61: 1,401,794
257— 30: 1,401,002
126: 1,401,005
129: 1,401,974
132: 1,401,394
186: 1,400,918
1,400,815
259— 69: 1,401,787
44: 1,401,533
260— 11: 1,400,536
28: 1,400,594
36: 1,400,776
265— 1: 1,400,775
51: 1,400,852
88: 1,400,781
268— 9: 1,400,982
43: 1,401,073
272— 17: 1,401,003
1,401,004
280— 10: 1,400,980
267— 121: 1,400,946
80: 1,401,267
1,401,140
270— 4: 1,400,752
271— 38: 1,401,179
276— 62: 1,401,050
277— 145: 1,400,988
278— 91: 1,400,674
280— 30: 1,401,085
33.1: 1,400,733
70: 1,401,345
100: 1,401,059
281— 33: 1,401,058
1,401,059
283— 11: 1,401,040
284— 18: 1,401,040
54: 1,401,175
71: 1,401,042
1,401,043
113: 1,401,044
285— 8: 1,401,324
24: 1,401,005
84: 1,401,579
36: 1,401,581
158: 1,401,582
145: 1,401,400
286— 18: 1,400,533
97: 1,401,348
291— 8: 1,401,010
23: 1,401,324
29: 1,401,579
44: 1,401,344
292— 44: 1,401,327
93— 93: 1,401,722
303— 4: 1,401,420
1,401,440
1,401,441
13: 1,401,532
19: 1,401,362
1,401,363
1,401,448
20: 1,401,992
23: 1,401,993
1,401,994
1,401,995
88: 1,401,996

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 27TH DAY OF DECEMBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abbe, George C., Lansdowne, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Quill-drive for electric locomotives. No. 1,401,120; Dec. 27.

Adelman, George R., Philadelphia, Pa. Pencil-clip. No. 1,401,124; Dec. 27.

Ahlby, Jacob, Bergland, Mich. Tie and rail holder. No. 1,401,093; Dec. 27.

Aird, James A., Montreal, Quebec, Canada. Light. No. 1,401,452; Dec. 27.

Akins, Hannah F. (See Gross, F. D., Akins, and Bucher.)

Aktiebolaget Ars. (See Reiche, Arthur, assignor.)

Aktiebolaget Brown, Boveri and Cie. (See Brown, W., and Carrard, assignors.)

Aktiebolaget Ljungströms Angturbin. (See Ljungström, Fredrik, assignor.)

Alberti, Emilio and J., New York, assignors to International Cork Company, Brooklyn, N. Y. Machine for manufacturing closures for bottles and other receptacles. No. 1,401,100; Dec. 27.

Alberti, J. (See Alberti, Emilio and J.)

Alexander, Erik H., New York, N. Y., assignor to C. E. Johansson, Eskilstuna, Sweden. Diameter-gage. No. 1,401,119; Dec. 27.

Aldridge, W. Herbert, Portland, Oreg. Tire-armor. No. 1,401,301; Dec. 27.

Alexander, Wallace, Jersey City, N. J., assignor to The De Laval Separator Company, New York, N. Y. Separating butter-oil from milk, skim-milk, cream, buttermilk, butter, &c. No. 1,401,853; Dec. 27.

Allan, Charles D. (See Carter, Byron B., assignor.)

Allard, Pierre, Maisonneuve, Quebec, Canada. Ticket-holder. No. 1,401,120; Dec. 27.

Allcutt, Chester T. (See Maizer, J. E., and Allcutt.)

Allen, Charles H., assignor to Troy Laundry Machinery Company, Ltd., Chicago, Ill. System of motor control. No. 1,401,387; Dec. 27.

Allen, Ray M., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Mounting for vacuum-tubes. No. 1,401,121; Dec. 27.

Allen, W. D., Manufacturing Company. (See Meng, Harry B., assignor.)

Allin, Charles J., St. Paul, Minn. Flue-stopper. No. 1,401,[illegible]; Dec. 27.

Almeda, Jose M., Shoshone, Idaho. Bag-fastener. No. 1,401,[illegible]; Dec. 27.

American Chain Company. (See Smith, William B., assignor.)

American Coke & Chemical Company. (See Roberts, Arthur, assignor.)

American Gas Company of New Jersey, The. (See Warner, Arthur W., assignor.)

American Multigraph Company, The. (See Trundle, George T., Jr., assignor.)

American Optical Company. (See Schumacher, Elmer L., assignor.)

American Steel Foundries. (See Carscadin, Charles A., assignor.)

Andersen, Alexander E., Bristol, Va. Pencil or pen attachment. No. 1,401,454; Dec. 27.

Anderson, Albin E., Oakmont, Pa. Adjustable swift. No. 1,401,123; Dec. 27.

Anderson, Albin E., Oakmont, assignor of two-thirds to E. M. Verner and J. W. Macfarlane, Pittsburgh, Pa. Wire-rope machine. No. 1,401,122; Dec. 27.

Anderson, August E., Montclair, N. J. Contact for spark-gaps. No. 1,401,231; Dec. 27.

Anderson, Charles W., *et al.* (See Cooper, Daniel B., assignor.)

Anderson, Frank, Oakland, Calif. Combination-padlock. No. 1,401,865; Dec. 27.

Anderson, Harry T., Butler, Pa., assignor to Harry Vissering and Company, Chicago, Ill. Manufacture of drawbar-yokes. No. 1,401,748; Dec. 27.

Anderson, Harry T., Butler, Pa., assignor to H. Vissering and Company, Chicago, Ill. Railway draft-gear yoke. No. 1,401,749; Dec. 27.

Angus, William A. R., Winnipeg, Manitoba, Canada. Rail-anchor. No. 1,401,856; Dec. 27.

Annabel, Charles C. (See Letts, Ellsworth M., assignor.)

Apsley Rubber Company. (See Parchert, Frederick L., assignor.)

Armour Fertilizer Works. (See Shoeld, Mark, assignor.)

Armstrong, George F., Sioux City, Iowa. Button-fastener. No. 1,401,232; Dec. 27.

Aronson, Louis V., Newark, N. J. Ornament-support. No. 1,401,750; Dec. 27.

Arrow Electric Company, The. (See Nero, Arvid H., assignor.)

Atack, Frederick W., Manchester, England, and G. Robertson, Couper Angus, Scotland. Halogenation of anthraquinone derivatives. No. 1,401,125; Dec. 27.

Atlantic Redning Company, The. (See Buerger, Charles B., assignor.)

Aust, Arthur A., Bedford, Ohio. Combustion-engine. No. 1,401,126; Dec. 27.

Automatic Sprinkler Company of America. (See Lowe, Ernest A., assignor.)

Avart, Isaac, *et al.* (See Hughes, James W., assignor.)

Avery, Colby M., Aurora, Ill., assignor to Stephens-Adamson Mfg. Co. Traveling grizzly. No. 1,401,751; Dec. 27.

Axelson, Jule C., Alhambra, Calif., assignor to Axelson Machine Company. Sucker-rod coupling. No. 1,401,302; Dec. 27.

Axelson Machine Company. (See Axelson, Jule C., assignor.)

Babcock & Wilcox Company, The. (See Heaton, Herman C., assignor.)

Babirad, Nicolaus, Charleroi, assignor of two-fifths to D. Stec, Cokeburg, Pa. Combination comb and brush. No. 1,401,576; Dec. 27.

Bahr, Jacob S., North Venice, and M. E. Logue, East St. Louis, Ill. Carbureter attachment. No. 1,401,127; Dec. 27.

Bailey, Charles A., Cromwell, Conn. Vibrating shell. No. 1,401,859; Dec. 27.

Bailey, George C., Woodcliff-on-Hudson, N. J., assignor to The Barrett Company. Purification of maleic acid by reducing agents. No. 1,401,937; Dec. 27.

Bailey, Percy T., Middletown, R. I. Fencepost attachment. No. 1,401,509; Dec. 27.

Baird-Daniels Co., *et al.* (See Popper, Joseph, assignor.)

Baker, Henry F. (See Smith, Harold J., assignor.)

Baker-Vawter Company. (See Manny, Fred L., assignor.)

Baicker, Martin, Chicago, Ill., assignor to Marquette Tool & Mfg. Co. Multiple-drill-press-controlling means. No. 1,401,388; Dec. 27.

Baldwin Locomotive Works, The. (See Abbe, George C., assignor.)

Baldwin, William C., Ottawa, Ontario, Canada. Electrical drier for paper and the like. No. 1,401,308; Dec. 27.

Ball, Clarence F., Rutland, Vt. Portable cot for use with automobiles. No. 1,401,938; Dec. 27.

Barrett Company, The. (See Bailey, George C., assignor.)

Barton, Warren D., Waco, Tex. Device for holding ice upon the running-boards of vehicles. No. 1,401,128; Dec. 27.

Baumaison, Pierre, San Francisco, Calif. Extension-bit. No. 1,401,455; Dec. 27.

Bausch Manufacturing Co., The. (See Davis, Ernest W., assignor.)

Battner, Stephen, Brooklyn, N. Y. Pneumatic-action unit. No. 1,401,857; Dec. 27.

Baumhauer, Heinrich, Charlottenburg, near Berlin, Germany, assignor, by mesne assignments, to Patent-Treuhand-Gesellschaft fuer Electrische Gluhlampen, M. B. H., Berlin, Germany. Electric glow-lamp. No. 1,401,510; Dec. 27.

Baumler, Charles A., assignor to The Buffalo Sled Company, Buffalo, N. Y. Wheel-mounting. No. 1,401,930; Dec. 27.

Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Pneumatic column. No. 1,401,858; Dec. 27.

Beall, Charles R., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling mechanism. No. 1,401,511; Dec. 27.

Beck, August B., Jersey City, N. J. Girdle. No. 1,401,860; Dec. 27.

Beck, August B., Jersey City, N. J. Girdle. No. 1,401,861; Dec. 27.

Becker, Mathias B., Chicago, Ill. Packaging device. No. 1,401,304; Dec. 27.

Becker, Sylvester, Rutherford, N. J., assignor to Sterling Bronze Company, New York, N. Y. Molding. No. 1,401,577; Dec. 27.

Beckman, Albert H. E., Stockholm, Sweden. Skee-stopper. No. 1,401,940; Dec. 27.

Beecroft, Edgar C., Pelham Manor, N. Y. Crutch. No. 1,401,305; Dec. 27.

Beeman Tractor Company. (See Mader, Joseph, assignor.)

Bellman, Edward, Evansville, Wis. Manually-propelled life-saving device and attachment for boats. No. 1,401,233; Dec. 27.
Bellmore, Frederick H., New Bedford, Mass. Valve-tappet. No. 1,401,214; Dec. 27.
Beman, Ralph, Cleveland, Ohio, assignor to General Electric Company. Optical checking apparatus. No. 1,401,664; Dec. 27.
Bendien, Jacques. (See Preston, Charles F., assignor.)
Benjamin, George H., New York, N. Y. Melting-furnace. No. 1,401,456; Dec. 27.
Benner, Henry and L., Brooklyn, N. Y. Side wind-deflector. No. 1,401,942; Dec. 27.
Benner, Louis. (See Benner, Henry and L.)
Berger, William, and C. Blaschke, Schulenburg, Tex. Shoemaker's tool. No. 1,401,[illegible]; Dec. 27.
Berryman, Harry H., Cicero, Ill. Heating system. No. 1,401,512; Dec. 27.
Bertrand, John A., assignor to A. Reed, Los Angeles, and W. A., Koch, San Francisco, Calif. Reamer. No. 1,401,752; Dec. 27.
Bethlehem Steel Bridge Corporation. (See Hilpert, Maier G., assignor.)
Beuckmann, Frank, East St. Louis, Ill. Dish-scraper. No. 1,401,457; Dec. 27.
Bibb, Otis A. (See Culwell, V. S., and Bibb.)
Billings, Irvin I., Marial, Oreg. Miner's carbid lamp. No. 1,401,129; Dec. 27.
Billington, Frank, Portland, Oreg. Water-reservoir for automobile-radiators. No. 1,401,513; Dec. 27.
Billon, Frederic, and J. Bobli, assignors to Firm "Heintilla," Solothurn, Switzerland. Horseshoe-magnet. No. 1,401,130; Dec. 27.
Bird, George R., Rockford, Ill. Tire-flap. No. 1,401,306; Dec. 27.
Birkigt, Marc, Bois-Colombes, France. Explosion-engine. No. 1,401,862; Dec. 27.
Blackburn, William A., Detroit, Mich. Work-rest. No. 1,401,131; Dec. 27.
Blake, James, Buffalo, N. Y. Soldering-furnace. No. 1,401,514; Dec. 27.
Blakely, William W., Detroit, Mich. Anchoring device for wheeled vehicles. No. 1,401,3[illegible]; Dec. 27.
Blando, Frank, and S. Duca, New York, N. Y. Disk-cutting machine. No. 1,401,507; Dec. 27.
Blaschke, Charles. (See Berger, W., and Blaschke.)
Bleicken, Berthold, Gross-Borstel, near Hamburg, Germany. Apparatus for producing distilled water. No. 1,401,578; Dec. 27.
Bodin, Anton, Chesterton, Ind. Tag-locking device. No. 1,401,235; Dec. 27.
Bohan, Edward E. (See MacDougald, S. F., and Bohan.)
Bohli, Jacques. (See Billon, F., and Bohli.)
Boissonnault, G., Company. (See Boissonnault, Gaston, assignor.)
Boissonnault, Gaston, Hewlett, N. Y. Telephone-receiver. No. 1,401,753; Dec. 27.
Boissonnault, Gaston, Hewlett, assignor to G. Boissonnault Company, New York, N. Y. Telephone-transmitter. No. 1,401,754; Dec. 27.
Bokum, William F., and H. V. Coulston, assignors to Smith and Furbush Machine Company, Philadelphia, Pa., Garnett machine. No. 1,401,[illegible]3; Dec. 27.
Bolton, Walter G., Springfield, Mass. Oar. No. 1,401,864; Dec. 27.
Boltshauser, Heinrich, Zurich, Switzerland. Steam-turbine-driven locomotive. No. 1,401,808; Dec. 27.
Bonaccorso, Orazio, assignor of one-half to G. Lo Bue, Philadelphia, Pa. Automatic train-stopping apparatus. No. 1,401,755; Dec. 27.
Bond, Joseph T., assignor to Sealright Co, Inc., Fulton, N. Y. Paper-container machinery. No. 1,401,132; Dec. 27.
Boon, Wilfred L., North Attleboro, Mass. Adjustable drawing-board. No. 1,401,458; Dec. 27.
Bosch, John, and W. Kowaluk, Cleveland, Ohio. Stringed musical instrument. No. 1,401,865; Dec. 27.
Bozsykowski, Benno, Cleveland, Ohio. Production of threads. No. 1,401,943; Dec. 27.
Bösch, Frederick W., Camden, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Steam-engine. No. 1,401,866; Dec. 27.
Bösch, Frederick W., Camden, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Steam-engine. No. 1,401,867; Dec. 27.
Bösch, Frederick W., Camden, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Steam-engine. No. 1,401,868; Dec. 27.
Bosch, Robert, Aktiengesellschaft. (See Schäfer, M., and Kraus, assignors.)
Bowers, Clarence W., Heppner, Oreg. Automobile lifting mechanism. No. 1,401,869; Dec. 27.
Bradshaw, Samuel H. (See Brooks, Edward M., assignor.)
Bradt, Gustave H. (See Claussen, M., and Bradt.)
Brandenburg, Francis C., Piqua, Ohio. Cutter for emery-wheel-dressing tools. No. 1,401,966; Dec. 27.
Brandt, Edward J., Watertown, Wis. Coin-delivery apparatus. No. 1,401,133; Dec. 27.
Brandt, William H., Hubbard, Iowa. Closure device for egg-crates and the like. No. 1,401,236; Dec. 27.
Bräuning, Wilhelm, assignor to Deutsche Werke Aktiengesellschaft, Berlin, Germany. Firearm. No. 1,401,579; Dec.2
Breining, Harold W. (See Dority, R., and Breining.)
Brogan, Maurice P., Omaha, Nebr. Reflector. No. 1,401,870; Dec. 27.
Brower, James [illegible], St. Louis, Mo. Incubator. No. 1,401,756; Dec. 27.
Brown, Charles W., Indianola, Iowa. Machine-gun. No. 1,401,[illegible]7; Dec. 27.
Brown, Chester A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Soldering-iron. No. 1,401,871; Dec. 27.
Brown, Enoch S., assignor of one-half to P. Scharlau, Warba, Minn. Hen's nest. No. 1,401,459; Dec. 27.
Brown, Kris, Baden, and A. Carrard, Ennetbaden, Switzerland, assignors to Aktiengesellschaft Brown, Boveri and Cie., Baden, Switzerland. Method and apparatus for regulating centrifugal compressors. No. 1,401,668; Dec. 27.
Brown, William F., Kansas City, Mo. Nut-lock. No. 1,401,757; Dec. 27.
Brooks, Edward M., assignor of one-half to S. H. Bradshaw, Fort Wayne, Ind. Window-fastener. No. 1,401,941; Dec. 27.
Brush, Alanson P., Detroit, Mich. Vehicle drive-axle. No. 1,401,[illegible]; Dec. 27.
Brush, Alanson P., Detroit, Mich. Vehicle drive-axle. No. 1,401,[illegible]1; Dec. 27.
Brush, Alanson P., and O. M. Nacker, Detroit, Mich. Vehicle-wheel. No. 1,401,[illegible]2; Dec. 27.
Bucher, John W. (See Groce, F. D., Akins, and Bucher.)
Buerger, Charles B., assignor to The Atlantic Refining Company, Philadelphia, Pa. Apparatus for removing coke from retorts. No. 1,401,310; Dec. 27.
Buescher, Ferdinand A., Elkhart, Ind. Key-pad for wind musical instruments. No. 1,401,872; Dec. 27.
Buffalo Steel Company, The. (See Daimler, Charles A., assignor.)
Buller Coupler Co. (See Buller, Jacob W., assignor.)
Buller, Jacob W., assignor to Buller Coupler Co., Hillsboro, Kans., Truck and trailer coupling. No. 1,401,873; Dec. 27.
Buncher, John H. (See Wright, Roland T., assignor.)
Burch Plow Works Company, The. (See Foster, Harry C., assignor.)
Burgess, Robert. (See Jones, Joseph H., assignor.)
Burke, William J., Youngstown, Ohio. Safety device. No. 1,401,874; Dec. 27.
Butler, Frank L., Chicago, Ill. Electric fixture. No. 1,401,460; Dec. 27.
Butterfield, Justus, Warren, Ind. Combined currycomb and brush. No. 1,401,114; Dec. 27.
Caesar, August, Seattle, Wash. Geographical clock. No. 1,401,[illegible]; Dec. 27.
Calhoun, Fredrick F., Tumwater, Wash. Combination pipe-wrench. No. 1,401,[illegible]; Dec. 27.
Capen Belting and Rubber Company. (See King, Charles E., assignor.)
Carey, Philip, Manufacturing Company, The. (See Moore, Albert E. F., assignor.)
Carlston, William A., Governors Island, N. Y. Eyeshade. No. 1,401,[illegible]; Dec. 27.
Carlson, Anton E., Merchantville, N. J. Valve-grinder. No. 1,401,[illegible]; Dec. 27.
Carpenter, Purva V., Worth, N. C. Spark-plug. No. 1,401,670; Dec. 27.
Carrard, Alfred. (See Brown, E., and Carrard.)
Carscallin, Charles A., assignor to American Steel Foundries, Chicago, Ill. Yoke for draft-gears. No. 1,401,811; Dec. 27.
Carter, Byron B., Hinsdale, assignor to C. D. Allen, Chicago, Ill. Fire-extinguisher. No. 1,401,135; Dec. 27.
Cartlidge, Frank, Claremont, N. H., assignor to Sullivan Machinery Company. Mining-machine truck. No. 1,401,759; Dec. 27.
Casgrain, Louis A., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cementing apparatus. No. 1,401,237; Dec. 27.
Casmire, Frederick B. (See Roberts, Oren F., assignor.)
Castanie, William, Port Arthur, Tex. Chuck. No. 1,401,812; Dec. 27.
Celeda, William, Newark, N. J. Smoking-pipe. No. 1,401,876; Dec. 27.
Chaddock, George A., Liverpool, England. Weight-controlled airship. No. 1,401,461; Dec. 27.
Chappell, Howard F., New York, N. Y. Calcining alunite. No. 1,401,136; Dec. 27.
Chappell, Howard F., New York, N. Y. Calcining alunite. No. 1,401,137; Dec. 27.
Chase, Clarence C., Buda, Ill. Engine-lifter. No. 1,401,138; Dec. 27.
Christoph, George W., Warehousepoint, Conn. Exhauster. No. 1,401,583; Dec. 27.
Chryst, William A., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Ignition system. No. 1,401,313; Dec. 27.
Chryst, William A. (See Kettering, C. F., and Chryst, assignors.)
Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Emergency source of voltage. No. 1,401,671; Dec. 27.
Circle, Everett, Coalton, Okla. Shower-bath nozzle. No. 1,401,462; Dec. 27.
Cizek, Albert F., Seattle, Wash. Conduit device for tapping cans. No. 1,401,584; Dec. 27.

Cladin, Harry C., Cleveland, Ohio. Manufacture of screw-cutting oil. No. 1,401,760; Dec. 27.
Clancy, John, Kenner, La. Rail. No. 1,401,139; Dec. 27.
Clark, Elmer A., Joliet, assignor to W. B. Pratt, Chicago, Ill. Lifting-jack. No. 1,401,761; Dec. 27.
Clark, Harry H. and L. Schaumburger, Terre Haute, Ind. Foot-pedal for pneumatic door-operating mechanism. No. 1,401,875; Dec. 27.
Clark, Roy E., Earlham, Iowa. Operating device for valve-grinders. No. 1,401,814; Dec. 27.
Clark Thread Company, The. (See Clauss, Max O., assignor.)
Clark, William T., Philadelphia, Pa., assignor of one-half to E. W. Marshall, Yonkers, N. Y. Meter. No. 1,401,515; Dec. 27.
Clausen, Martin, San Francisco, and G. H. Bradt, Oakland, Calif., assignors, by mesne assignments, to Wizard Electric Lamp Company. Portable electric-lamp bracket. No. 1,401,672; Dec. 27.
Clauss, Max O., New York, N. Y., assignor to The Clark Thread Company, Newark, N. J. Winding skeins. No. 1,401,515; Dec. 27.
Clauss, Max O., New York, N. Y., assignor to The Clark Thread Company, Newark, N. J. Skein-winding mechanism. No. 1,401,516; Dec. 27.
Clauss, Max O., New York, N. Y., assignor to The Clark Thread Company, Newark, N. J. Skeining-machine. No. 1,401,517; Dec. 27.
Clauss, Max O., New York, N. Y., assignor to The Clark Thread Company, Newark, N. J. Skein-holder. No. 1,401,518; Dec. 27.
Clauss, Max O., New York, N. Y., assignor to The Clark Thread Company, Newark, N. J. Skein-binding mechanism. No. 1,401,519; Dec. 27.
Clauss, Max O., New York, N. Y., assignor to The Clark Thread Company, Newark, N. J. Article collecting and bundling mechanism. No. 1,401,520; Dec. 27.
Clauss, Max O., New York, N. Y., assignor to The Clark Thread Company, Newark, N. J. Skein. No. 1,401,521; Dec. 27.
Clauss, Max O., New York, N. Y., assignor to The Clark Thread Company, Newark, N. J. Skein supporting and folding means. No. 1,401,522; Dec. 27.
Cleaton, Lewis, Prairieville, Tex. Plow attachment. No. 1,401,877; Dec. 27.
Clement, George A., Mount Vernon, N. Y., assignor to General Optical Company. Multifocal lens. No. 1,401,238; Dec. 27.
Cleveland Dental Manufacturing Company, The. (See Risley, Sheridan, assignor.)
Cleveland Tractor Company, The. (See White, Rollin H., assignor.)
Cloud, James E. and H. F. Stalter, Harpster, Ohio. Flue-stop. No. 1,401,310; Dec. 17.
Coates, William, Newark, N. J. Heat-exchange system. No. 1,401,523; Dec. 27.
Cockburn, David and D. MacNicoll Cardonald, near Glasgow, Scotland. Engine stop-gear. No. 1,401,239; Dec. 27.
Colby, Christian M., Minneapolis, Minn. Dish-washing tool. No. 1,401,878; Dec. 27.
Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Induction-heater. No. 1,401,673; Dec. 27.
Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric glass-annealing furnace. No. 1,401,674; Dec. 27.
Collins, Archie F. and V. D., Congers, N. Y. Spark-plug. No. 1,401,585; Dec. 27.
Collins, Virgil D. (See Collins, Archie F. and V. D.)
Columbia Graphophone Manufacturing Company. (See Scully, John J., assignor.)
Columbia Postal Supply Company. (See Slack, John W., assignor.)
Comings, William R., Surrey, England. Valve, faucet, and the like. No. 1,401,879; Dec. 27.
Commonwealth Steel Company. (See Harlow, Harry B., assignor.)
Compagnie Generale D'Electricite. (See Lecoultre, Ernest, assignor.)
Comstock, Archie R., Mount Kisco, N. Y. Electrical searching-coil. No. 1,401,586; Dec. 27.
Comstock, Harry, Sunland, Calif. Pump-jack. No. 1,401,317; Dec. 27.
Conrad, Nicholas J., assignor to Schweitzer & Conrad, Chicago, Ill. Protecting device for electric circuits. No. 1,401,881; Dec. 27.
Connelly, Douglas L., Leonia, N. J., assignor to W. L. Fleisher & Co., Inc., New York, N. Y. Nozzle. No. 1,401,880; Dec. 27.
Continental Rubber Works. (See Kelleher, Jeremiah, assignor.)
Cook, Samuel E., Spokane, Wash. Baker's oven. No. 1,401,392; Dec. 27.
Cook, Stanley S. (See Parsons, C. A., and Cook.)
Cooper, Daniel R., Gore, New Zealand, assignor of one-half to C. W. Anderson and F. L. Howorth, Wellington, New Zealand. Douche. No. 1,401,675; Dec. 27.
Coppola, Francesco, Elmira, N. Y. Car-door. No. 1,401,762; Dec. 27.
Cordes, Tobias J., San Francisco, Calif. Auto-lift. No. 1,401,403; Dec. 27.
Cornwall, Frederick R., assignor to The Emerson Electric Manufacturing Company, St. Louis, Mo. Electric switch. No. 1,401,587; Dec. 27.
Corson, Benjamin I., Minneapolis, Minn. Fire-extinguishing liquid. No. 1,401,240; Dec. 27.
Coster, Thomas J. (See Petersen, Peter, assignor.)
Couillard, Henri, Los Angeles, Calif. Film-cement holder and spreader. No. 1,401,318; Dec. 27.
Coulston, Herbert V. (See Bokum, W. F., and Coulston.)
Cowan, Richard S., assignor of one-half to G. Tower, Jr., St. Louis, Mo. Nut-cracking machine. No. 1,401,588; Dec. 27.
Cozzo, Lorenzo, Chicago, Ill. Door-opener. No. 1,401,882; Dec. 27.
Crabb, Victor, London, England. Dynamo-electric generator. No. 1,401,883; Dec. 27.
Cranage, Harry B., assignor of four-tenths to L. Fox, Leeds, England. Feeding motion for pressing and other machines. No. 1,401,884; Dec. 27.
Crawford, Charlotte E. (See Crawford, William H., assignor.)
Crawford, William H., assignor to C. E. Crawford, Los Angeles, Calif. Boom-drag-line excavator. No. 1,401,319; Dec. 27.
Crescent Belt Fastener Company. (See Voss, Clara S. E., assignor.)
Crespo, Joaquin, Mexico, Mexico. Composition of matter for impregnating articles made of paper, pasteboard, pulp, and similar material. No. 1,401,524; Dec. 27.
Cross, Silas H., Sacramento, Calif. Sheep-holding device. No. 1,401,393; Dec. 27.
Crotto, Frank E., Dallas, Tex., assignor to Reclamation Oil Producing Association. Well-washing device. No. 1,401,464; Dec. 27.
Crump, John B., Ballarat, Victoria, Australia. Apparatus for planting seed-potatoes. No. 1,401,885; Dec. 27.
Csanyi, Henry, New York, N. Y. Storage battery. No. 1,401,076; Dec. 27.
Culwell, Vinson S., and O. A. Bibb, Warrior, Ala. Float-controlled oil-gage. No. 1,401,140; Dec. 27.
Cunningham, Thomas, Philadelphia, Pa. Method and apparatus for stretching and pressing knit tubular fabrics. No. 1,401,589; Dec. 27.
Curtis, Homer P., assignor of one-half to The Plains Iron Works Company, Denver, Colo. Pipe-bending machine. No. 1,401,394; Dec. 27.
Daab, John A., New York, N. Y. Automobile-top closure. No. 1,401,395; Dec. 27.
Dade, Jesse E., Littlefork, assignor to Universal Safety Suit Co., Inc., Minneapolis, Minn. Protective suit. No. 1,401,677; Dec. 27.
D'Alessandro, Pietro, trustee. (See D'Alessandro, Pietro, assignor.
D'Alessandro, Pietro, Syracuse, N. Y., assignor to P. D'Alessandro, trustee. Powder-distributing brush. No. 1,401,508; Dec. 27.
Damon, William H., Los Angeles, Calif. Dispensing vessel. No. 1,401,763; Dec. 27.
Danielson, Arvid A., assignor to Dultmeier Manufacturing Company, Manning, Iowa. Hitch. No. 1,401,764; Dec. 27.
Danielsson, Axel, Stockholm, assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Journal-box for railway-cars and similar vehicles. No. 1,401,141; Dec. 27.
Darlington, Frederick, New York, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Apparatus for nitrogen fixation. No. 1,401,678; Dec. 27.
Darling, Lewis A., assignor to Electric Service Supplies Company, Philadelphia, Pa. Speed-governor for engines or motor devices. No. 1,401,320; Dec. 27.
Darling, Lewis A., assignor to Electric Service Supplies Company, Philadelphia, Pa. Turbine and turbine-wheel. No. 1,401,321; Dec. 27.
Daughdrill, Kenneth W., Austin, Tex. Electric sign. No. 1,401,886; Dec. 27.
Davidson, John. (See Parkinson, G., and Davidson.)
Davidson, Ira M., Santa Paula, assignor of one-third to R. I. Moses, Los Angeles, Calif. Composite cylinder and rotary sleeve-valve motor. No. 1,401,322; Dec. 27.
Davison, W. C. (See Kell, Frank A., assignor.)
Davis, Bethuel M., Chicago, Ill. Speedometer. No. 1,401,396; Dec. 27.
Davis, Ernest W., Oak Park, Ill., assignor to The Bassick Manufacturing Co. Lubricating system. No. 1,401,765; Dec. 27.
Davis, John T. (See Rhorer, Homer M., and Davis.)
Davis, Robert H., London, England. Flow-meter for gases. No. 1,401,887; Dec. 27.
Davis Sewing Machine Company, The. (See Meyer, William H., assignor.)
Dawson, Arthur T., Westminster, London, and J. Horne, Barrow-in-Furness, assignors to Vickers Limited, Westminster, London, England. Ordnance. No. 1,401,241; Dec. 27.
Day, Herbert W., Wollaston, assignor to Spray Engineering Company, Boston, Mass. Tool for applying coating. No. 1,401,397; Dec. 27.
Dayton Engineering Laboratories Company, The. (See Chryst, William A., assignor.)
Dayton Engineering Laboratories Company. (See Kettering, Charles F., assignor.)
Dayton Engineering Laboratories Company. (See Kettering, C. F., and Chryst, assignors.)
Dayton Engineering Laboratories Company, The. (See Mooney, William H., assignor.)
Dean, James H., Chicago, Ill. Flour-sifter. No. 1,401,142; Dec. 27.

De Cew, Judson A., Mount Vernon, assignor to Process Engineers Incorporated, New York, N. Y. Electric-heating for paper. No. 1,401,251; Dec. 27.
Delandre, Rene L. J., Bois-Colombes, France. Apparatus for cutting tooth-gear-wheels. No. 1,401,323; Dec. 27.
Delaval, Maurice E., South Orange, N. J. Steam-turbine plant. No. 1,401,143; Dec. 27.
De Laval Separator Company, The. (See Alexander, Wallace, assignor.)
Delaware Chemical Engineering Company. (See du Pont, Francis I., assignor.)
De Lavaud, Dmitry S., New York, N. Y. Topographical recorder. No. 1,401,242; Dec. 27.
Delderowe, A. K., et al. (See Martin, Charles H., assignor.)
Del Turco, Louis, Newark, N. J. Divider for sanitarium doors. No. 1,401,590; Dec. 27.
Demoville, James L. (See Liggett, John C., assignor.)
Demountable Spring Tire Company. (See Schmeyer, Charles, assignor.)
De Saussure, Frank M., Jr., Greenville, S. C. Ladder. No. 1,401,496; Dec. 27.
Detachable Plow Share Edge Manufacturing Company. (See Northquist, Peter A., assignor.)
Deutsche Werke Aktiengesellschaft. (See Brüning, Wilhelm, assignor.)
Devenon, William E. (See Mann, James, assignor.)
De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Thread-severing mechanism for sewing-machines. No. 1,401,495; Dec. 27.
De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Needle-clamp. No. 1,401,498; Dec. 27.
De Voe, William E., assignor to The Underfeed Stoker Company of America, Detroit, Mich. Underfeed furnace. No. 1,401,838; Dec. 27.
Dicks Stamping Co. (See Dicks, William, assignor.)
Dicks, William, assignor to Dicks Stamping Co., Inc., Buffalo, N. Y. Holder for Christmas-trees and the like. No. 1,401,144; Dec. 27.
Di Giacomo, Michael J., Wilmington, Del. Spark-plug. No. 1,401,151; Dec. 27.
Dillin, Dudley F., North Canton, assignor to The Hoover Suction Sweeper Company, New Berlin, Ohio. Brush-holder. No. 1,401,679; Dec. 27.
Dillon, Guy, Indianapolis, Ind., assignor, by mesne assignments, to Simmons Company, Kenosha, Wis. Mattress-tufting machine. (Reissue.) No. 15,253; Dec. 27.
Diesk, John, Berwyn, assignor to U. S. Ball Bearing Mfg. Co., Chicago, Ill. Machine for filling ball-retainers. No. 1,401,680; Dec. 27.
Dodds, Ethan I. (See Flannery, J. R., and Dodds.)
Dodge, William W., Washington, D. C. Jar-closure. No. 1,401,467; Dec. 27.
Doehler, Augustine. (See Matthews, George S., assignor.)
Doggett, Allen B., Brooklyn, N. Y. Drawing instrument. No. 1,401,591; Dec. 27.
Donaldson, David, Leith, Scotland. Device for electrically heating hand-irons. No. 1,401,592; Dec. 27.
Donnelly, William T., Brooklyn, N. Y. Wooden ship. No. 1,401,880; Dec. 27.
Dority, Ralph, Washington, D. C., and H. W. Breining, Brooklyn, N. Y., assignors of one-third to G. E. Ijams. Combined statement and return envelop. No. 1,401,324; Dec. 27.
Downie, Robert M., assignor to Keystone Driller Company, Beaver Falls, Pa. Deep-well pump. No. 1,401,681; Dec. 27.
Doxford, Robert P. (See Keller, Karl O., assignor.)
Doyle, William T., assignor to Sturtevant Mill Company, Boston, Mass. Manufacturing acid phosphate or superphosphate. No. 1,401,527; Dec. 27.
Drachenberg, August T., Gulf, Tex. Mining sulfur. No. 1,401,593; Dec. 27.
Drolshammer, Gustav, Hamar, assignor of one-half to I. Drolshammer, Drammen, Norway. Adjustable brake arrangement operated by compressed fluid adapted to be used in railway-trains or the like. No. 1,401,325; Dec. 27.
Drolshammer, Ivar. (See Drolshammer Gustav, assignor.)
Drowne, Edmond E., assignor to The National Acme Company, Cleveland, Ohio. Reversible tap and die holder. No. 1,401,594; Dec. 27.
Duca, Sante. (See Biando, F., and Duca.)
Duffy, James P. B. (See Murphy, Thomas J., assignor.)
Duke, Joseph E., Birmingham, Ala. Coupling for mine-cars. No. 1,401,590; Dec. 27.
Dultmeier Manufacturing Company. (See Danielson, Arvid A., assignor.)
Duncan, Charles, Montreal, Quebec, Canada. Electric switch construction. No. 1,401,891; Dec. 27.
Duncan, Joseph T., Long Beach, Calif. Steering device for automobiles. No. 1,401,898; Dec. 27.
Du Pont E. I. de Nemours & Company. (See Haon, Harry J., assignor.)
Du Pont, E. I., de Nemours & Company. (See Kessler, Johannes M., assignor.)
Du Pont, E. I., de Nemours & Company. (See Moran, Robert C., assignor.)
Du Pont, Francis I., assignor to Delaware Chemical Engineering Company, Wilmington, Del. Water-level regulator for steam-boilers. No. 1,401,892; Dec. 27.
Du Pont, Francis I., assignor to Delaware Chemical Engineering Company, Wilmington, Del. Means for preventing the formation of scale in steam-boilers. No. 1,401,893; Dec. 27.
Du Pont, Francis I., assignor to Delaware Chemical Engineering Company, Wilmington, Del. Water-level regulator for steam-boilers. No. 1,401,894; Dec. 27.
Dura Mechanical Hardware Company. (See Hutchinson, Stanley W., assignor.)
Dusha, Paul L., New York, and A. Feyk, Bayonne, assignors to Hoyt-Dusha Co., New York, N. Y. Cutter-sorting machine. No. 1,401,895; Dec. 27.
Edgar, Frank L., Waterbury, Conn. Artificial fingers. No. 1,401,243; Dec. 27.
Eastlund, Frank, Omaha, Nebr. Bucket-thee-support. No. 1,401,244; Dec. 27.
Eberhardt, Walter. (See Herschede, W. J., and Eberhardt.)
Eberle, John A., St. Louis, Mo. Child's swing. No. 1,401,905; Dec. 27.
Edison Machine Company. (See McGrath, William L., assignor.)
Edgar Steel Seal & Mfg. Co. (See Edgar, William K., assignor.)
Edgar, William K., assignor to Edgar Steel Seal & Mfg. Co., Lawrence, Kans. Seal. No. 1,401,529; Dec. 27.
Ehrhart, George L., Womelsdorf, Pa. Handle. No. 1,401,906; Dec. 27.
Elder, Frank B., Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company, Measure for dispensing liquids. No. 1,401,907; Dec. 27.
Electric Hose and Rubber Company, The. (See Grilli, Alvah M., assignor.)
Electric Service Supplies Company. (See Darling, Lewis A., assignor.)
Elite Frame Company. (See Weber, Harry M., assignor.)
Emerson Electric Manufacturing Company. (See Cornwall, Frederick G., assignor.)
Erat, Adolph, Easthampton, Mass. Non-skid device for automobiles. No. 1,401,245; Dec. 27.
Erhard, Robert P., Juniata, Pa. Eyeglasses or spectacles. No. 1,401,327; Dec. 27.
Erwin, Orlando R., New York, N. Y., and H. V. Gloe, Chicago, Ill., assignors to Foamite Firefoam Company, New York, N. Y. Fire-extinguishing device. No. 1,401,328; Dec. 27.
Essex Motors. (See Fekete, Stephen I., assignor.)
Everett, Edward A., Long Island City, N. Y. Lightning arrester. No. 1,401,596; Dec. 27.
Everett, John H. D., Waukegan, Ill. Safety-razor. No. 1,401,765; Dec. 27.
Everson, Oscar, Hibbing, Minn. Sight feed oil-pump. No. 1,401,143; Dec. 27.
Ewing, Howard M., Los Angeles, Calif., assignor to Famous Players-Lasky Corporation. Light-dissolver. No. 1,401,329; Dec. 27.
Faccioli, Giuseppe, Pittsfield, Mass., assignor to General Electric Company. Electrical distributing system. No. 1,401,642; Dec. 27.
Falconer, William W. P., London, England. Device for measuring the range of movement of human joints. No. 1,401,146; Dec. 27.
Famous Players-Lasky Corporation. (See Ewing, Howard M., assignor.)
Farness, Benjamin, De Forest, Wis. Form for hollow concrete walls. No. 1,401,898; Dec. 27.
Farnsworth, Earl H. (See Farnsworth, Willis S. and E. H.)
Farnsworth, Willis S. and E. H., San Francisco, Calif. Dirigible spotlight. No. 1,401,246; Dec. 27.
Farr, Herbert H., U. S. Army. Loading feed-belts for machine-guns. No. 1,401,147; Dec. 27.
Fekete, Stephen I., assignor to Essex Motors, Detroit, Mich. Piston for internal-combustion engines. No. 1,401,899; Dec. 27.
Feyk, Anton. (See Dusha, P. F., and Feyk.)
Finch, Maurice S., assignor to Specialty Shoe Machinery Company, St. Joseph, Mo. Machine for feeding and driving nails. No. 1,401,767; Dec. 27.
Fisher Body Corporation. (See Simpson, Emory G., assignor.)
Fisher, Mose, Plain, N. Mex. Vehicle-wheel spindle. No. 1,401,900; Dec. 27.
Flitta, James L., Merchantville, assignor to Warren Webster & Company, Camden, N. J. Volume-regulating valve. No. 1,401,468; Dec. 27.
Flannery Bolt Company. (See Flannery, J. R., and Dodds, assignors.)
Flannery Bolt Co. (See Landgraf, Frederick K., assignor.)
Flannery, John B., Pittsburgh, Pa., and E. I. Dodds, Central Valley, N. Y., assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,401,683; Dec. 27.
Flannery, John B., Pittsburgh, Pa., and E. I. Dodds, Central Valley, N. Y., assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,401,684; Dec. 27.
Fleisher, W. L., & Co. (See Connelly, Douglas L., assignor.)
Fletcher, Joseph H., assignor to Perfection Auto Window Company, Los Angeles, Calif. Window for fabric walls. No. 1,401,523; Dec. 27.
Förderer, Albert E., New York, N. Y. Machine-gun. No. 1,401,768; Dec. 27.

Foamite Firefoam Company. (See Erwin, O. R., and Gloe, assignors.)
Fodge, Gustav, Hoquiam, Wash. Saw. No. 1,401,529; Dec. 27.
Fogde, Mathias, and L. P. Southwick, Richmond, Va., assignors, by mesne assignments, to Stokes & Smith Company, Philadelphia, Pa. Charge-forming and positioning apparatus. No. 1,401,637; Dec. 27.
Fogde, Mathias, and L. P. Southwick, Richmond, Va., assignors, by mesne assignments, to Stokes & Smith Company, Philadelphia, Pa. Stamping-machine. (Reissue.) No. 15,254; Dec. 27.
Foote, Thomas W., Cleveland, assignor to The Marble & Shattuck Chair Company, Bratenahl, Ohio. Interlocking chair-base. No. 1,401,330; Dec. 27.
Foote, Thomas W., East Cleveland, Ohio. Machine for shing dowel-pins and the like. No. 1,401,331; Dec. 27.
Forbes, Edward, Webster, Mass. Bleaching composition. No. 1,401,901; Dec. 27.
Ferding, William G., Cleveland, Ohio. Tire. No. 1,401,146; Dec. 27.
Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Electric waffle-iron. No. 1,401,683; Dec. 27.
Fortin, Paul R., Schenectady, N. Y., assignor to General Electric Company. Protective device. No. 1,401,635; Dec. 27.
Foster, Harry C., Dayton, assignor to The Burch Plow Works Company, Crestline, Ohio. Combined spreader and roller. No. 1,401,149; Dec. 27.
Fox, Louis. (See Cranage, Harry B., assignor.)
Francombe, Victory P. (See Sodeau, W. H., and Francombe.)
Freeman, Walter B. (See Kohler, C. W., Hoffman, and Freeman.)
Frei, Fritz, Berne, Switzerland. Electric heating device for plunging. No. 1,401,686; Dec. 27.
Frey, Harvey S., Reading, Pa. Auxiliary brake for motor-vehicles. No. 1,401,507; Dec. 27.
Fruwirth, Arthur, Brooklyn, N. Y. Process or copying camera. No. 1,401,902; Dec. 27.
Gahl, Rudolf, Miami, Ariz., assignor, by mesne assignments, to Pneumatic Process Flotation Company, New York, N. Y. Flotation apparatus. No. 1,401,598; Dec. 27.
Galbreth, J. L. (See Pells, Samuel, assignor.)
Garner, Henry and J. P., Birmingham, England. Wheel of motor-tractors. No. 1,401,530; Dec. 27.
Garner, James P. (See Garner, Henry and J. P.)
Gassar, Arthur D., Waukesha, Wis. Envelop shipping-label. No. 1,401,899; Dec. 27.
Gassar, Frank Cupar, Saskatchewan, Canada. Cable and telephone-wire containing rails. No. 1,401,531; Dec. 27.
Gawthrop, Pearle R., Sr., Adrian, W. Va. Water or muck bailer. No. 1,401,903; Dec. 27.
Geer, Frederick M. (See Geer, Harris S., assignor.)
Geer, Harris S., assignor of one-half to F. M. Geer, Troy, N. Y. Folding clothes-rack. No. 1,401,532; Dec. 27.
General Electric Company. (See Beman, Ralph, assignor.)
General Electric Company. (See Faccioli, Giuseppe, assignor.)
General Electric Company. (See Fortin, Paul R., assignor.)
General Electric Company. (See Rice, Chester W., assignor.)
General Electric Company. (See Wilkinson, James, assignor.)
General Fuel Apparatus Corporation. (See Hoffman, William M., assignor.)
General Optical Company. (See Clement, George A., assignor.)
Gentry, Burner C., Freeport, Tex. Traction-support. No. 1,401,630; Dec. 27.
Geyer, John F., Philadelphia, Pa. Machine for filling bottles, &c. No. 1,401,150; Dec. 27.
Greenlee Bros. & Co. (See Hawkinson, Adolph H., assignor.)
Giles, Harvey, Brooklyn, assignor to A. Ward, New York, N. Y. Coin-controlled vending-machine. No. 1,401,533; Dec. 27.
Gillespie Eden Corporation. (See Townsend, George R., assignor.)
Glasner, Rudolph W. (See Strand, David, assignor.)
Gloe, Harold V. (See Erwin, O. R., and Gloe.)
Godfrey, Harold H., Los Angeles, Calif. Apparatus for extracting metal from ore and the like. No. 1,401,769; Dec. 27.
Goddu, George, Winchester, and F. L. Mackenzie, Beverly, Mass., assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for inserting fastenings. No. 1,401,247; Dec. 27.
Goddu, George, Winchester, and F. L. Mackenzie, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Work-positioning mechanism. No. 1,401,248; Dec. 27.
Goddu, George, Winchester, and F. L. Mackenzie, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Machine for inserting fastenings. No. 1,401,249; Dec. 27.
Golden, Robert, Brooklyn, N. Y. Clasp for documents, &c. No. 1,401,770; Dec. 27.
Gold, Samuel M. (See Rachillo, Max, assignor.)
Goldstein, Charles, Chicago, Ill., assignor to P. V. Spinner. Loose-leaf binder. No. 1,401,250; Dec. 27.
Goodrich, B. F., Company, The. (See Kohler, C. W., Hoffman, and Freeman, assignors.)
Gould, Edwin J., and W. Pressler, Fruitvale, assignor to Modern Mechanical Engineering Company, Alameda, Calif. Auxiliary autocar-drive. No. 1,401,680; Dec. 27.
Gouldbourn, Joseph, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastener-setting machine. No. 1,401,251; Dec. 27.
Green, Andrew W., Toronto, Ontario, Canada. Floor-finishing apparatus. No. 1,401,400; Dec. 27.
Green, Pleas W., Egypt, Miss. Harrow. No. 1,401,332; Dec. 27.
Green, Samuel G., United States Army. Cartridge-holder. No. 1,401,152; Dec. 27.
Griffin, Alvah M., assignor to The Electric Hose and Rubber Company, Wilmington, Del. Coil of rubber hose and the process of coiling. No. 1,401,904; Dec. 27.
Groene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Taper attachment for lathes. No. 1,401,534; Dec. 27.
Groener, Gerald D. (See Sharples, D. T., and Groener.)
Grossenbacher, Ernest, Fajardo, Porto Rico. Automatic regulator for fuel oil burners. No. 1,401,509; Dec. 27.
Gross, Frederick D., R. P. Akins, and J. W. Bucher, Denver, Colo. Flotation apparatus and process. No. 1,401,535; Dec. 27.
Gross, Frederick D., R. P. Akins, and J. W. Bucher, Denver, Colo. Roller-bearing for tire and trunnion type mills. No. 1,401,536; Dec. 27.
Gunby, James W., Ridgefield Park, N. J. Method and machine for drying, cleaning, and polishing moving-picture films. No. 1,401,771; Dec. 27.
Gwyer, Herbert J., Yonkers, N. Y. Leg construction. No. 1,401,772; Dec. 27.
Haldeman, Paul C., assignor to Lockens Steel Company, Coatesville, Pa. Stripper for rolling-mills. No. 1,401,773; Dec. 27.
Hall, C. M., Lamp Company. (See Watson, Harvey L., assignor.)
Halleck, Frank A., Oak Park, Ill., assignor to Sullivan Machinery Company. Heat-exchange device. No. 1,401,717; Dec. 27.
Halliwell, Arthur, Cleveland, Ohio. Adjustable auto-lamp. No. 1,401,153; Dec. 27.
Halpern, Carl, Newark, N. J. Safety appliance for vehicles. No. 1,401,774; Dec. 27.
Hankins, John C., Detroit, Mich. Harness. No. 1,401,600; Dec. 27.
Hanson, Louis S., Lewistown, Mont. Radiator-shutter. No. 1,401,905; Dec. 27.
Haon, Harry J., Newburgh, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making automobile-door panels. No. 1,401,691; Dec. 27.
Haluska, Andrew, Whiting, Ind. Provision-safe support. No. 1,401,776; Dec. 27.
Halvorsen, Halbert B., Chicago, Ill., assignor to Sullivan Machinery Company. Compressor-unloading mechanism. No. 1,401,944; Dec. 27.
Harlow, Harry B., Alton, Ill., assignor to Commonwealth Steel Company, St. Louis, Mo. Molding apparatus. No. 1,401,601; Dec. 27.
Harris, Warren E., Emmett, Idaho. Calculating device. No. 1,401,692; Dec. 27.
Hartford, Edward V., Inc. (See Hartford, Edward V., assignor.)
Hartford, Edward V., Deal, N. J., assignor to E. V. Hartford, Inc., New York, N. Y. Spring-retarding device. No. 1,401,262; Dec. 27.
Hartford-Fairmont Company. (See Peller, Karl E., assignor.)
Hartman, Louis H., assignor to The Valve Bag Company, Toledo, Ohio. Automatic receptacle-filling machine. No. 1,401,401; Dec. 27.
Hatton, Manson C., Ontario, Calif. Stopper for washbowls and the like. No. 1,401,776; Dec. 27.
Haugh, James G., Bascom, Ohio. Seesaw and the like. No. 1,401,906; Dec. 27.
Hawkinson, Adolph H., assignor to Greenlee Bros. & Co., Rockford, Ill. Mortising-tool. No. 1,401,469; Dec. 27.
Haworth, Walter N., and J. C. Irvine, St. Andrews, Scotland. Preparation of dimethyl sulfate. No. 1,401,693; Dec. 27.
Hawthorne, Ellsworth A., Bridgeport, Conn. Bracket. No. 1,401,402; Dec. 27.
Hayes, Robert M. (See Reeves, Joseph T., assignor.)
Healey, George R., Los Angeles, Calif. Asbestos tablemat. No. 1,401,333; Dec. 27.
Heaton, Herman C., Berwyn, Ill., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam-boiler furnace and operating the same. No. 1,401,253; Dec. 27.
Hedstrom, John P., assignor to Machinery Company of America, Big Rapids, Mich. Saw-swage. No. 1,401,694; Dec. 27.
Hedstrom, John P., assignor to Machinery Company of America, Big Rapids, Mich. Saw-tooth shaper. No. 1,401,695; Dec. 27.
Hedstrom, John P., assignor to Machinery Company of America, Big Rapids, Mich. Saw-grinding machine. No. 1,401,696; Dec. 27.
Helder, Henry J., Carroll, Iowa. Stepladder. No. 1,401,470; Dec. 27.

Heidt, Jacob G., Evansville, Ind. Ire-tongs. No. 1,401,777; Dec. 27.
Heinze, Edmund, St. Louis, Mo., assignor to Acme Mfg. Co., Chicago, Ill. Two-piece axle-support for correcting metatarsal foot troubles. No. 1,401,254; Dec. 27.
Heller, Henry R., New York, N. Y., assignor to Winter & Co. Player-piano actions. No. 1,401,778; Dec. 27.
Hemphill Company. (See Lawson, John, assignor.)
Hendel, Paul, High Ridge, Mo. Turning shovel-plow. No. 1,401,779; Dec. 27.
Hennenger, Philip E., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Commutating-pole construction. No. 1,401,597; Dec. 27.
Hensel, Otto W., Lakefield, Minn. Posthole auger. No. 1,401,780; Dec. 27.
Henton, H. Benton. (See O'Brien, Harry B., assignor.)
Hering, Alfonso, Brooklyn, N. Y. Reversible typewriter-type. No. 1,401,471; Dec. 27.
Herrington, Freeman, Lawrence, Kans. Composition of matter for filling, polishing, and finishing floors, woodwork, and other unpolished surfaces. No. 1,401,947; Dec. 27.
Herschede, Walter J., and W. Eberhardt, Cincinnati, Ohio. Machine for grinding glass plates. No. 1,401,605; Dec. 27.
Herschede, Walter J., and W. Eberhardt, Cincinnati, Ohio. Feed mechanism for grinding-machines. No. 1,401,606; Dec. 27.
Hess-Bright Manufacturing Company, The. (See Runge, Robert F., assignor.)
Hess, Henry, Philadelphia, Pa. Soldering flux. No. 1,401,154; Dec. 27.
Hessler, John O. (See Richer, J. R., and Hessler.)
Heuser, Herman, Evanston, Ill. Preparing low alcoholic and non-alcoholic beverages. No. 1,401,700; Dec. 27.
Hibbs, Cassel D., Fort Worth, Tex. Mold for making fan-belts. No. 1,401,255; Dec. 27.
Hill, James D., Scottdale, Pa. Aircraft-propeller. No. 1,401,537; Dec. 27.
Hill, Nels, St. Paul, Minn. Snowplow. No. 1,401,256; Dec. 27.
Hilpert, Meier G., Harrisburg, assignor to Bethlehem Steel Bridge Corporation, Bethlehem, Pa. Transfer table driving mechanism. No. 1,401,334; Dec. 27.
Hines, Frank W., Washington, D. C. Lighting arrangement for automobiles. No. 1,401,602; Dec. 27.
Hoffman, Harry A. (See Kohler, C. W., Hoffman, and Freeman.)
Hoffman, William M., assignor to General Fuel Apparatus Corporation, Buffalo, N. Y. Hydrocarbon-burner. No. 1,401,403; Dec. 27.
Hoffman, William M., assignor to General Fuel Apparatus Corporation, Buffalo, N. Y. Hydrocarbon-burner. No. 1,401,404; Dec. 27.
Holcomb, William J., Bellefontaine, Ohio. Combination-lock for car-doors. No. 1,401,701; Dec. 27.
Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Compressor. No. 1,401,603; Dec. 27.
Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Compressor-controlling mechanism. No. 1,401,908; Dec. 27.
Hole, Morris C., Pasadena, Calif. Pipe-screwing machine. No. 1,401,405; Dec. 27.
Holliday, William J. (See Schaf, J. C., Jr., and Holliday.)
Hollis, Rey, Santa Barbara, Calif. Cushion for head rests. No. 1,401,406; Dec. 27.
Holmes, Howard R., Montrose, Iowa. Corn-harvester. No. 1,401,781; Dec. 27.
Holmes, John E. C., Ottawa, Ontario, Canada. Electric heater. No. 1,401,472; Dec. 27.
Holmes, John T. (See Jordan, V., and Holmes.)
Holmes, Walter G. (See Knapp, K. W., and Holmes.)
Holub-Dusha Co. (See Dusha, P. F., and Feyk, assignors.)
Hoofer, Charles F., Chicago, Ill. Pneumatic control for lubricators. No. 1,401,473; Dec. 27.
Hoover Suction Sweeper Company, The. (See Dillis, Dudley F., assignor.)
Horne, James. (See Dawson, A. T., and Horne.)
Houghtaling, William, Chappaqua, N. Y. Extension and combination stepladder. No. 1,401,257; Dec. 27.
Howorth, Florena L., *et al.* (See Cooper, Daniel R., assignor.)
Hubbard, William, Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,401,258; Dec. 27.
Hughes, James W., Haddon Heights, N. J., assignor to S. Nelson and I. Avart, Philadelphia, Pa. Box-making machine. No. 1,401,407; Dec. 27.
Hughes Steel Equipment Co. (See Lindsey, John H., Sr., assignor.)
Hull, Emma, *et al.* (See Martin, Charles H., assignor.)
Hull, Henry M., Fairfield, Conn. Beater. No. 1,401,408; Dec. 27.
Hurt, James W., York, Nebr. Grain-elevator. No. 1,401,909; Dec. 27.
Husser, Julius A., Cleveland, Ohio. Automobile-radiator. No. 1,401,604; Dec. 27.
Husted, Monroe G., Bridgeton, N. J. Lathe attachment. No. 1,401,702; Dec. 27.
Hyre, Jacob E., Urbana, Ill. Eaves-trough and support. No. 1,401,703; Dec. 27.
Ihrig, Justus K. (See Ihrig, Peter J., assignor.)
Ihrig, Peter J., assignor of one-half to J. K. Ihrig, Springfield, Ohio. Portable tree-holder. No. 1,401,255; Dec. 27.
Illum, George E. (See Dority, B., and Breining, assignors.)
Ingersoll-Rand Company. (See Bayles, Lewis C., assignor.)
Ingersoll-Rand Company. (See Paterson, Frederick W., assignor.)
International Cork Company. (See Alberti, Emilio and J., assignors.)
Irvine, James C. (See Haworth, W. S., and Irvine.)
Irving, Thomas W., Aspatria, England. Antitheft-lock for automobiles. No. 1,401,435; Dec. 27.
Iako Company, The. (See McCann, Charles L., assignor.)
Iverson, Lorenz, Pittsburgh, Pa. Gear-drive for rolling-mills. No. 1,401,890; Dec. 27.
Jackson, Ingwald J., Duluth, Minn. Holder. No. 1,401,474; Dec. 27.
Jackson, Silas H., Cleveland, Ohio. Excavating-bucket. No. 1,401,782; Dec. 27.
Jacoby, Frank C., Newport, Ark. Rotary conveyer. No. 1,401,155; Dec. 27.
Jaquery, George H., Philadelphia, Pa. Stereotype press. No. 1,401,609; Dec. 27.
Jenkins, Charles F., Washington, D. C., assignor to Motor-Mower Company, Detroit, Mich. Lawn-mower. No. 1,401,155; Dec. 27.
Jenkins, David R., Oakland, Calif. Window-sash tightener for vehicle-tops. No. 1,401,606; Dec. 27.
Jensen Manufacturing Co. (See Jensen, Walter E., assignor.)
Jensen, Walter E., San Diego, assignor to Jensen Manufacturing Co., Los Angeles, Calif. Mixing device. No. 1,401,475; Dec. 27.
Jerone, Don Angelo, Florence, Italy. Moisture-proof paint composition. No. 1,401,261; Dec. 27.
Johansson, Carl E. (See Aldeborgh, Erik H., assignor.)
Johnson, August, Portland, Oreg. Grate-bar. No. 1,401,753; Dec. 27.
Johnson, Leonard T., Boston, Mass. Scale. No. 1,401,704; Dec. 27.
Johnson, Louis V., Fort Worth, Tex. Rotary engine. No. 1,401,856; Dec. 27.
Johnson, Wiley B. (See Mitchell, John R., assignor.)
Jones, Clyde M., Sacramento, Calif. Weather-strip. No. 1,401,409; Dec. 27.
Jones, Joseph H., Winthrop, assignor of one-half to H. Burgess, Newton Center, Mass. Cap-spinning frame. No. 1,401,705; Dec. 27.
Jordan, Virgil, and J. T. Holmes, Louisville, Ky. Gymnastic apparatus. No. 1,401,476; Dec. 27.
Jouffret, Henri V. J., Neuilly-sur-Seine, assignor to The Society "Anciens Etablissements Cail-cott Freres," Paris, France. Engine or motor. No. 1,401,784; Dec. 27.
Kahn, Fred, Tonganoxie, Kans. Ignition and scavenging means for internal-combustion engines. No. 1,401,706; Dec. 27.
Kaiser, Leon L., Lodi, Calif. Speed-table. No. 1,401,785; Dec. 27.
Kalman, Louis O., and A. S. Shapiro, Montreal, Quebec, Canada. Auto safety-lamp. No. 1,401,410; Dec. 27.
Kampmann, Gerhardt S. R., Taulov Station, Denmark, assignor to Naamlooze Vennootschap Handel Maatschappij "Planeet," The Hague, Netherlands. Lock. No. 1,401,910; Dec. 27.
Kapferer, Henry, Boulogne-sur-Seine, France. Trailer. No. 1,401,791; Dec. 27.
Karmire, William J., assignor to E. A. Swain, Shelbyville, Ind. Jointing-equaliser for woodworking. No. 1,401,787; Dec. 27.
Kebler, Leonard, Brunxville, N. Y., assignor to Ward Leonard Electric Company. Resistance unit. No. 1,401,477; Dec. 27.
Kehrman, John F., Bonne Terre, Mo. Railway motor-car. No. 1,401,607; Dec. 27.
Kell, Frank A., assignor of one-fourth to W. C. Davison, St. Louis, Mo. Car-mover. No. 1,401,411; Dec. 27.
Kelleter, Jeremiah, assignor to Continental Rubber Works, Erie, Pa. Rubber mat. No. 1,401,788; Dec. 27.
Keller, Fred, Jr., Pittsburgh, Pa. Rotary internal-combustion engine. No. 1,401,478; Dec. 27.
Keller, Karl O., assignor of one-half to R. P. Dorfort, Sunderland, Durham, England. Fuel-spraying nozzle for internal-combustion engines. No. 1,401,911; Dec. 27.
Kelly, William M., Jersey City, N. J. Paper-feeding mechanism. No. 1,401,707; Dec. 27.
Kellogg Switchboard and Supply Company. (See Wales, Alfred H., assignor.)
Kemerer, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Commutator-cylinder. No. 1,401,708; Dec. 27.
Kendall Products Corporation. (See Pearson, Herbert P., assignor.)
Kennedy, Otis M., Philadelphia, Pa. Dust-cleaning suction-pump. No. 1,401,789; Dec. 27.
Kent, Franklin P., Lyons, Kans. Harp. No. 1,401,158; Dec. 27.
Kernahan, David, Belfast, Ireland. Heel-grip for shoes. No. 1,401,790; Dec. 27.
Kettering, Charles F., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Ignition system. No. 1,401,479; Dec. 27.
Kessler, Johannes M., West Orange, N. J., assignor to E. I. du Pont de Nemours & Company. Purification of crude synthetic camphor. No. 1,401,709; Dec. 27.

Kessler, William, Spokane, Wash. Change-speed mechanism. No. 1,401,536; Dec. 27.
Kettering, Charles F., and W. A. Chryst, Dayton, Ohio, assignors to The Dayton Engineering Laboratories Company. Electrical system for engines. No. 1,401,537; Dec. 27.
Keyes Fibre Company. (See Williamson, Bert R., assignor.)
Keystone Driller Company. (See Downie, Robert M., assignor.)
King, Charles E., assignor to Capen Belting and Rubber Company, St. Louis, Mo. Manufacturing endless V-shaped or angular belts. No. 1,401,450; Dec. 27.
Kingsley, Bruce G., Los Angeles, Calif. Illuminating attachment for keyboard musical instruments. No. 1,401,908; Dec. 27.
Kinnear Manufacturing Company, The. (See McCloud, Edward H., assignor.)
Kirschbraun, Lester, Evanston, Ill. Waterproof composition. No. 1,401,791; Dec. 27.
Klein, Dee, Gillespie, Ill. Mixer. No. 1,401,600; Dec. 27.
Klein, George C., Houston, Tex. Faucet. No. 1,401,412; Dec. 27.
Klein, Otto G., Ste. Genevieve, Mo. Envelop. No. 1,401,792; Dec. 27.
Knapp, Karl W., Des Moines, Iowa, and W. G. Holmes, Minneapolis, assignors to M. F. Patterson Dental Supply Company, St. Paul, Minn. Heating device. No. 1,401,793; Dec. 27.
Knapp, Walter C., and H. T. Lockman, Rochester, N. Y., assignors to Liberty Bread Slicer, Inc., Brighton Station, Rochester, N. Y. Slicing-machine. No. 1,401,539; Dec. 27.
Knowles, Frank W., Portland, Oreg. Beet-harvesting machine. No. 1,401,413; Dec. 27.
Koch, Wehner A., *et al.* (See Bertrand, John A., assignor.)
Kofl, Samuel, New York, N. Y. Box. No. 1,401,794; Dec. 27.
Kohler, Charles W., H. A. Hoffman, Akron, and W. R. Freeman, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for separating rubber and fiber. No. 1,401,795; Dec. 27.
Konig, William F., assignor of one-half to J. C. McCann, San Francisco, Calif. Rat-guard. No. 1,401,540; Dec. 27.
Konrad, Otto, Oshkosh, Wis. Foldable bed. No. 1,401,796; Dec. 27.
Korner, Vane B., La Grange, Ill. Power take-off mechanism. No. 1,401,157; Dec. 27.
Koterske, John, Selden, Kans. Dust-conveying attachment for threshing-machines. No. 1,401,710; Dec. 27.
Kowaiuk, Wasyl. (See Boosh, J., and Kowaiuk.)
Kraft, Henry P., Ridgewood, N. J. Dust-cap for tire-valves and the like. No. 1,401,541; Dec. 27.
Kralicek, Charles, Cleveland, Ohio, assignor, by mesne assignments, to Safety Oiling System, Incorporated, Philadelphia, Pa. Oiling device. No. 1,401,711; Dec. 27.
Kranz, Max F., Bridgeport, Conn. Jig for drilling valve-cages. No. 1,401,201; Dec. 27.
Kraus, Adolf. (See Schiffer, M., and Kraus.)
Kaestlinger, Joseph G., Chicago, Ill. Sectional demountable rim. No. 1,401,542; Dec. 27.
Kuhn, Arthur G., Covington, Ky. Automobile-tire. No. 1,401,810; Dec. 27.
Kula, Thomas J., Merino, Colo. Crowning-machine. No. 1,401,912; Dec. 27.
K. W. Battery Company. (See Nordhaus, William H., assignor.)
Lallias, Charles J. (See Larson, O. A., and Lallias.)
Landgraf, Frederick K., assignor to Flannery Bolt Company, Pittsburgh, Pa. Tool for applying staybolt sleeves to boilers. No. 1,401,611; Dec. 27.
Landgrebe, Carl O., Dresden-A., Germany. Spark-plug serving also as compression and injection valve for internal combustion engines. No. 1,401,612; Dec. 27.
Landini, Achille, Camerl, Italy. Motor-car. No. 1,401,797; Dec. 27.
Landon, Hart F., Milwaukee, Wis. Automobile-headlight. No. 1,401,613; Dec. 27.
Larsen, John R., Dorchester, Mass. Baggage-check. No. 1,401,538; Dec. 27.
Larson, Christian H., Gulley, Tex. Vehicle-wheel. No. 1,401,414; Dec. 27.
Larson, Harry A., Milford, Utah. Road-drag. No. 1,401,614; Dec. 27.
Larson, Ole A., and C. J. Lallias, Salt Lake City, Utah. Radiator-cover. No. 1,401,799; Dec. 27.
Lawrence, Frederick K., Chicago, Ill. Wrench. No. 1,401,615; Dec. 27.
Lawlor, William T., Jersey City, N. J. Railway switch heater. No. 1,401,798; Dec. 27.
Lawson, John, assignor to Hemphill Company, Central Falls, R. I. Circular glove-knitting machine. No. 1,401,712; Dec. 27.
La Force, Darrell E., assignor to The Truck Engineering Company, Cleveland, Ohio. Tilting body for trucks and the like. No. 1,401,616; Dec. 27.
Lecoultre, Ernest, assignor to Compagnie Generale D'Electricite, Paris, France. Automatic machine for blowing glass. No. 1,401,713; Dec. 27.
Lehman, Frank H., Lebanon, Pa. Ash-sifting device. No. 1,401,543; Dec. 27.
Lemmon, James H., Milltown, Ind., assignor to Louisville Cement Company, Louisville, Ky. Kiln. No. 1,401,481; Dec. 27.
Lewerenz, William, St. Louis, Mo. Mouthpiece for reed instrument. No. 1,401,159; Dec. 27.
Lewis, George S., assignor to Page-Lewis Arms Company, Chicopee Falls, Mass. Adjustable rear sight for rifles. No. 1,401,517; Dec. 27.
Lester, Howard W., Hartford, Conn. Lamp. No. 1,401,415; Dec. 27.
Lester, James J., Jr., Green Bay, Wis. Spark-plug. No. 1,401,799; Dec. 27.
Letts, Ellsworth M., assignor of forty-nine one-hundredths to C. C. Annabel Waverly, N. Y. Bottle-capping device. No. 1,401,800; Dec. 27.
Letts, Ellsworth M., assignor of forty-nine one-hundredths to C. C. Annabel, Waverly, N. Y. Bottle-capping device. No. 1,401,801; Dec. 27.
Liberty Bread Slicer, Inc. (See Knapp, W. C., and Lockman, assignors.)
Lidseen, Gustave, Chicago, Ill. Lubricating-can. No. 1,401,160; Dec. 27.
Lidseen, Gustave, Chicago, Ill. Oil-can-spout closer. No. 1,401,161; Dec. 27.
Lidseen, Gustave. (See Wahlin, Axel W., assignor.)
Liggett, John C., Brookline, assignor to J. L. Demoville, Boston, Mass. Machine for extracting juice from fruit. No. 1,401,416; Dec. 27.
Liles, Elmer E., Utica, Ill. Attachment for cultivators. No. 1,401,802; Dec. 27.
Limacher, Walter P., Pasadena, Calif. Bumper for automobiles. (Reissue.) No. 15,255; Dec. 27.
Lindsay, Robert J., Philadelphia, Pa. Bedclothes-holder. No. 1,401,340; Dec. 27.
Lindsey, John H., Sr., Otsego, assignor to Hughes Steel Equipment Co., Allegan, Mich. Bench-pedestal. No. 1,401,162; Dec. 27.
Lipps, Emory J., Fountain Hill borough, Pa. Doubling-machine. No. 1,401,618; Dec. 27.
Littman Loxair Valve Corporation. (See Littman, Zeno, assignor.)
Littman, Zeno, New York, N. Y., assignor to Littman Loxair Valve Corporation. Valve. No. 1,401,619; Dec. 27.
Litvak, Harry, New York, N. Y. Combined bed-spring frame and bedstead. No. 1,401,163; Dec. 27.
Litvak, Harry, Hudson, N. Y. Folding bed. No. 1,401,714; Dec. 27.
Ljungström, Fredrik, Brevik, Lidingön, assignor to Aktiebolaget Ljungstroms Angturbin, Stockholm, Sweden. Cooling element. No. 1,401,482; Dec. 27.
Lo Bue, George. (See Bonaccorso, Orazio, assignor.)
Lockman, Herbert T. (See Knapp, W. C., and Lockman.)
Logue, Michael E. (See Bahr, J. S., and Logue.)
Lohn, Jacob, Appleton, Wis. Water-cooling radiator. No. 1,401,164; Dec. 27.
Lowe, Ernest A., North Plainfield, N. J., assignor to Automatic Sprinkler Company of America, New York, N. Y. Automatic fire-alarm device. No. 1,401,914; Dec. 27.
Lowrey, George A., Goose Creek, Tex. Pipe-tongs. No. 1,401,417; Dec. 27.
Lorraine, David G., Taft, Calif. Measuring device. No. 1,401,913; Dec. 27.
Loubet, Pierre, assignor to Société Hue Frères et Loubet, Paris, France. Apparatus for underground pumping. No. 1,401,620; Dec. 27.
London, Warren P., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Micrometer mechanism. No. 1,401,621; Dec. 27.
Louisville Cement Company. (See Lemmon, James H., assignor.)
Ludescher, Edward, Cleveland, Ohio. Pulling attachment for motor-vehicles. No. 1,401,263; Dec. 27.
Lukens Steel Company. (See Haldeman, Paul C., assignor.)
Lundell, George A. E., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,401,544; Dec. 27.
Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Preparation of heel-blanks. No. 1,401,165; Dec. 27.
Lurie, William A., New Orleans, La. Door-lock. No. 1,401,160; Dec. 27.
Lyle, Robert F. (See Simpson, G. W. S., and Lyle, assignors.)
Lynch, Lawrence, Los Angeles, Calif. Rim. No. 1,401,264; Dec. 27.
Lynes, Fred, Johnstown, N. Y. Fire-kindling device. No. 1,401,803; Dec. 27.
MacDougald, Snow F., and E. E. Bohan, Cap Tourmente, Quebec, Canada. Dipper-tooth designed for use on shovels. No. 1,401,804; Dec. 27.
Macfarlane, James W., *et al.* (See Anderson, Albin E., assignor.)
Machinery Company of America. (See Hedstrom, John P., assignor.)
Mackenzie, Fred L. (See Goddu, G., and Mackenzie.)
Macleod, Albert A., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,401,167; Dec. 27.
MacNicoll, Donald. (See Cockburn, D., and MacNicoll.)
Maby, Adelbert C. (See Meitner, E., and Maby.)
Mader, Joseph, Albany, N. Y. Flag and flag-support. No. 1,401,626; Dec. 27.

Maier, Joseph, assignor to Bemis Tractor Company, Minneapolis, Minn. Traction-machine. No. 1,401,525; Dec. 27.

Mas, Anton, New Haven, Conn. Pliers. No. 1,401,548; Dec. 27.

Mayenfisch, Ernest J. (See Friedlen, Charles F., assignor.)

Magni, Umberto, Los Angeles, Calif. Radiator. No. 1,401,543; Dec. 27.

Malowaring, Alexander J., St. James, London, England. Safety-razor and hair-cutting appliance. No. 1,401,545; Dec. 27.

Manhattan-Rome Company, branch of Rome Metallic Bedstead Co. (See Rinbower, G. F., and Pittal, assignees.)

Manischewitz, B., Company, The. (See Manischewitz, Jacob C., assignor.)

Manischewitz, Jacob U., Cincinnati, Ohio, assignor to The B. Manischewitz Company. Matzo-breaker. No. 1,401,268; Dec. 27.

Manning, William H., Sioux Valley township, Union county, Iowa. Vehicle-buffer. No. 1,401,399; Dec. 27.

Mann, William, Company. (See Prizer, Harry A., assignor.)

Manny, Fred L., assignor to Baker-Vawter Company, Benton Harbor, Mich. Binder-rack. No. 1,401,171; Dec. 27.

Mans, Jakob, assignor of one-half to E. Dewsnap, London, England. Petrol or spirit lighter for cigars and other objects. No. 1,401,344; Dec. 27.

Marble & Shattuck Chair Company, The. (See Foote, Thomas W., assignor.)

Markham, Charles M., Milwaukee, Wis. Jack-actuating lever. No. 1,401,172; Dec. 27.

Marlin Firearms Corporation, The. (See Rockwell, Hugh M., assignor.)

Marlin Firearms Corporation. (See Swebilius, Carl G., assignor.)

Marquette Tool & Mfg. Co. (See Balcker, Martin, assignor.)

Marsel, Joseph, Milwaukee, Wis. Lock for automobile steering mechanism. No. 1,401,173; Dec. 27.

Marshall, E. W. (See Clark, William T., assignor.)

Marshall Field & Company. (See Parmenter, Joseph J., assignor.)

Martin, Charles H., assignor of one-half to A. K. Delbarowe and one-half to E. Hull, Los Angeles, Calif. Envelop-holding attachment for printing-press platens. No. 1,401,174; Dec. 27.

Massillon-Cleveland-Akron Sign Company. (See Turner, Charles W., assignor.)

Mateer, Jesse E., and C. T. Allcutt, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Testing device. No. 1,401,627; Dec. 27.

Matthews, George S., assignor of one-half to A. Doehler, Kansas City, Mo. Suspension air-cushion. No. 1,401,420; Dec. 27.

Mattson, Julius, Chicago, Ill. Spindle-tightener. No. 1,401,270; Dec. 27.

Maurer, O., Company, The. (See Schroedter, Edmund, assignor.)

Mayo, William P. (See Mooney, William A., assignor.)

McAllister, Frank E., Minneapolis, Minn. Check-protector. No. 1,401,168; Dec. 27.

McCann, John C. (See Konig, William F., assignor.)

McClain, John R., Edgewood, Pa., assignor to Westinghouse Electric and Manufacturing Company. Self-lubricating gear. No. 1,401,622; Dec. 27.

McClelland, Harold R., and J. McLean, assignors to N. E. McClelland & Company, Limited, Montreal, Quebec, Canada. Cargo vessel. No. 1,401,623; Dec. 27.

McClelland, N. E., & Company. (See McClelland, H. R., and McLean, assignors.)

McCloud, Edward H., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Elevator-door. No. 1,401,418; Dec. 27.

McCormick, Thomas J., Elko, Nev. Oil-well underreamer. No. 1,401,545; Dec. 27.

McCorquodale, William E., Orange, Tex. Hay-press. No. 1,401,715; Dec. 27.

McCrae, George, Brantford, Ontario, Canada. Pulverizer or grinding machine. No. 1,401,716; Dec. 27.

McCuen, Charles L., Detroit, Mich., assignor, by mesne assignments, to The Iseo Company, Chicago, Ill. Belt-tightening mechanism. No. 1,401,160; Dec. 27.

McDade, James E., Chicago, Ill. Chart. No. 1,401,341; Dec. 27.

McKwen, James R., Goose Creek, Tex. Concrete building-block. No. 1,401,624; Dec. 27.

McGarr, George A., Philadelphia, Pa. Broom-bridle. No. 1,401,242; Dec. 27.

McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,401,170; Dec. 27.

McKee, Ralph H., New York, N. Y. Alloying zirconium and iron. No. 1,401,266; Dec. 27.

McKee, Ralph H., New York, N. Y. Making ferro-zirconium. No. 1,401,265; Dec. 27.

McKee, Ralph H., New York, N. Y. Alloying zirconium and iron. No. 1,401,267; Dec. 27.

McLean, John. (See McClelland, H. R., and McLean.)

McNally, James T., Chicago, Ill. Removable bulkhead. No. 1,401,419; Dec. 27.

Mead, Francis, Chicago, Ill. Inner-cushioned wheel. No. 1,401,421; Dec. 27.

Meeuwis, Emil, Wesdar, Germany. Mutilating-machine for leather splittings. No. 1,401,348; Dec. 27.

Meeuwis, Emil, Wesdar, Germany. Grinding-machine particularly for leather splittings. No. 1,401,349; Dec. 27.

Meisel, Charles A., assignor to Meisel Press Manufacturing Company, Dorchester, Mass. Printing-press. No. 1,401,422; Dec. 27.

Meisel, Charles A., Dorchester, assignor to Meisel Press Manufacturing Company, Boston, Mass. Printing-press. No. 1,401,423; Dec. 27.

Meisel Press Manufacturing Company. (See Meisel, Charles A., assignor.)

Meltzer, Hyman, Brooklyn, and A. C. Maly, Richmond Hill, N. Y., assignors to The Sperry Gyroscope Company, Brooklyn, N. Y. Heating automobile torpedo. No. 1,401,624; Dec. 27.

Mendenhall, Albert E., Garden City, Kans. Trace-carrier. No. 1,401,347; Dec. 27.

Menge, Harry E., Oak Park, assignor to W. D. Allen Manufacturing Company, Chicago, Ill. Hose-nozzle. No. 1,401,425; Dec. 27.

Mellick, Edwin C., Formoso, Kans. Poultry-waterer. No. 1,401,424; Dec. 27.

Melson, Jonathan C., Providence, R. I. Automatic attachment for fire-extinguisher systems. No. 1,401,175; Dec. 27.

Merriam, Walter. (See Newland, R. T., and Merriam, assignors.)

Merrick, George H., Chicago, Ill. Handbag. No. 1,401,426; Dec. 27.

Meyers, John M., Janesville, Wis. Farm-tractor. No. 1,401,225; Dec. 27.

Meyer, William, et al. (See Newland, R. T., and Merriam, assignors.)

Meyer, William H., St. Louis, Mo., assignor, by mesne assignments, to The Davis Sewing Machine Company. Clothes-wringer. No. 1,401,196; Dec. 27.

Michaelson, George, and J. J. Roth, Sr., New York, N. Y. Pneumatic tire. No. 1,401,483; Dec. 27.

Miles, George W., Sandwich, Mass. Modifying resin and the product thereof. No. 1,401,345; Dec. 27.

Milhahn, Frederick, Dwight, Ill. Stirring device for cauldrons. No. 1,401,806; Dec. 27.

Miller, Arthur C., and E. H. Perry, assignors to Sears, Roebuck and Co., Chicago, Ill. Spray-head. No. 1,401,176; Dec. 27.

Miller, Jesse G., Superior, Wis. Adjusting-table. No. 1,401,427; Dec. 27.

Miller, Thomas S., South Orange, N. J. Cableway. No. 1,401,271; Dec. 27.

Minnick, Frederick L., assignor to Tubular Steel Automobile Wheel Mfg. Co., Spokane, Wash. Wheel. No. 1,401,630; Dec. 27.

Mining and Metallurgical Process Proprietary Limited. (See Rice, Gilbert, assignor.)

Miquet, Louis, Neuilly-sur-Seine, France. Adjustable ball-bearing. No. 1,401,196; Dec. 27.

Mitchell, Frank, Houston, Tex. Convertible automobile-body. No. 1,401,177; Dec. 27.

Mitchell, John R., Hilltop, W. Va., assignor of one-half to W. B. Jobeson, Clemont, Va. Wrench. No. 1,401,434; Dec. 27.

Mitchell, William, Milwaukee, Wis. Stanchion-control mechanism. No. 1,401,428; Dec. 27.

Mitchell, William B., Montgomery, Ala. Advertising-sign figure. No. 1,401,807; Dec. 27.

Mocha, Andrew, East Douglas, Mass. Collapsible chair. No. 1,401,272; Dec. 27.

Modern Mechanical Engineering Company. (See Gould, B. J., and Pressler, assignor.)

Mohn, Albert. (See Mohn, Thomas and A.)

Mohn, Thomas and A., Red Wing, Minn. Piston-ring. No. 1,401,178; Dec. 27.

Monahan, John C., Philadelphia, Pa. Wheel-chock device. No. 1,401,350; Dec. 27.

Monfils, Napoleon A., Haverhill, Mass. Heel. No. 1,401,808; Dec. 27.

Monti, Eudo, Turin, Italy. Manufacture of grape extract. No. 1,401,351; Dec. 27.

Moone, Albert E. F., Cincinnati, Ohio, assignor to The Philip Carey Manufacturing Company. Apparatus for handling rolls of roofing, barrels, boxes, and similar articles. No. 1,401,429; Dec. 27.

Mooney, William A., assignor of one-third to W. P. Mayo, Richmond, Va. Packaging-machine. No. 1,401,273; Dec. 27.

Mooney, William H., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Controlling device for electrical systems. No. 1,401,352; Dec. 27.

Moran, Robert C., Ridley Park, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing dinitrodiphenylamin. No. 1,401,631; Dec. 27.

Morgan, John W. (See Rimple, E. J., and Morgan.)

Morris, Edward J., Wynot, Nebr. Pocket pencil-holder. No. 1,401,809; Dec. 27.

Morris, Frank E., Philadelphia, Pa. Cooking apparatus. No. 1,401,945; Dec. 27.

Morris, George E., Hackensack, N. J. Automatic filter. No. 1,401,810; Dec. 27.

Mosley, Beadie, Sumter, S. C. Bedpan. No. 1,401,547; Dec. 27.

Moses, Raymond I. (See Davidson, Ira M., assignor.)

Moto-Mower Company. (See Jenkins, Charles F., assignor.)

Mottier, Walter F., El Campo, Tex. Hay-rake. No. 1,401,274; Dec. 27.

Mouat, Robert M., Leonia, N. J., assignor to Mouat-Swan Corporation. Display device. No. 1,401,632; Dec. 27.

Mouat-Swan Corporation. (See Mouat, Robert M., assignor.)

Myers, Fredellia H., Johnstown, Pa. Demountable rim. No. 1,401,430; Dec. 27.

Muench, Frank J. and J. L., Newark, N. J. Gearing driving unit. No. 1,401,916; Dec. 27.

Muench, John L. (See Muench, Frank J. and J. L.)

Muloch, William R., Winnipeg, Manitoba, Canada. Sled-propeller. No. 1,401,275; Dec. 27.

Murphey, Samuel R., et al. (See Tow, John Z., assignor.)

Murphy, Thomas J., Rochester, N. Y., assignor of one-half to J. P. B. Duffy, Rochester, N. Y. Electric motor. No. 1,401,548; Dec. 27.

Murray, Donald, London, England, assignor to The Western Union Telegraph Company. Tape-transmitter. No. 1,401,917; Dec. 27.

Murray, Joseph F., Herrin, Ill. Drill. No. 1,401,353; Dec. 27.

Muth, George F., assignor to Newton Machine Tool Works, Incorporated, Philadelphia, Pa. Tool-head for slotting-machines. No. 1,401,718; Dec. 27.

Myers, George M., Jr., Charleston, S. C. Thread and implement holder. No. 1,401,811; Dec. 27.

Myers, Laura M., Chicago, Ill. Shine or gloss remover and nap-producer. No. 1,401,719; Dec. 27.

Naamlooze Vennootschap Handel-Maatschappij "Planeet." (See Kampmann, Gerhardt B. R., assignor.)

Nacker, Owen M. (See Brush, A. P., and Nacker.)

Naintean, John B., North Smithfield, R. I. Spindle. No. 1,401,485; Dec. 27.

Naismith, John W., Stockport, England. Combing-machine. No. 1,401,179; Dec. 27.

National Acme Company, The. (See Drowns, Edmond E., assignor.)

Nebel, Karl F., Philadelphia, Pa., assignor to The Nolde & Horst Company, Reading, Pa. Embroidering attachment for flat-knitting machines. No. 1,401,720; Dec. 27.

Neimeyer, Charles, Little Rock, Ark., assignor to Demountable Spring Tire Company, St. Louis, Mo. Resilient wheel. No. 1,401,431; Dec. 27.

Nelson, Albert R., Sheridan, Wyo. Oil-can. No. 1,401,180; Dec. 27.

Nelson, Samuel et al. (See Hughes, James W., assignor.)

Nero, Arvid H., New Britain, assignor to The Arrow Electric Company, Hartford, Conn. Pull-switch. No. 1,401,276; Dec. 27.

Nevett, Ralph D. (See Palmer, T. H., Seale, and Nevett.)

Neveu, Frank A., Los Angeles, Calif. Radiator. No. 1,401,918; Dec. 27.

Newland, Roy T., and M. Merriam, assignor of one-half to A. Pinson and W. Meyer, Butte, Mont. Talking-machine. No. 1,401,277; Dec. 27.

Newton Machine Tool Works. (See Muth, George F., assignor.)

Niecum, Ellsworth, Kent, Wash. Ladder. No. 1,401,354; Dec. 27.

Nicholson, Stanley W., assignor to Dura Mechanical Hardware Company, Toledo, Ohio. Counterbalance-arm and spring. No. 1,401,355; Dec. 27.

Nicodemus, Harry, Baltimore, Md. Wheel-locking device. No. 1,401,721; Dec. 27.

Nixon, Mordecai M., Edenton, N. C. Machine for digging peanuts out of the ground. No. 1,401,486; Dec. 27.

Noble, Guy E., Dallas, Tex. Combined curb and gutter finishing tool. No. 1,401,487; Dec. 27.

Nolen, William E., Tulsa, Okla. Drilling well. No. 1,401,488; Dec. 27.

Nolde & Horst Company, The. (See Nebel, Karl F., assignor.)

Nordkamp, William H., assignor to K. W. Battery Company, Chicago, Ill. Table for pasting storage-battery plates. No. 1,401,181; Dec. 27.

Nordiska Kullager Aktiebolaget. (See Danielsson, Axel, assignor.)

Nordquist, Peter A., assignor to Detachable Plow Share Edge Manufacturing Company, Ogden, Utah. Detachable plowshare edge. No. 1,401,432; Dec. 27.

Nordstrom, Edward O., Minneapolis, Minn. Berry-box. No. 1,401,549; Dec. 27.

Northern Equipment Company. (See Veenschoten, Vincent V., assignor.)

Novotny, Emil E., assignor to J. S. Stokes, Philadelphia, Pa. Printing-plate and matrix. No. 1,401,633; Dec. 27.

O'Brien, Harry E., Indianapolis, Ind., assignor of one-half to H. B. Benton, Philadelphia, Pa. Mouthpiece for musical instruments. No. 1,401,634; Dec. 27.

Olcott, Walter, South Manchester, Conn. Corn-creamer. No. 1,401,635; Dec. 27.

Oliphant, John, Chicago, Ill., assignor to Sullivan Machinery Company. Booster. No. 1,401,946; Dec. 27.

Olivarius, Holger de F., San Francisco, Calif. Recovering materials from molasses. No. 1,401,433; Dec. 27.

Oldham, Zack G., Urbana, Ill. Boxing-glove cover. No. 1,401,722; Dec. 27.

Organ, Phinias A., Vincennes, Ind. Farm implement. No. 1,401,434; Dec. 27.

Oriel, William B., Grand Rapids, Mich. Change-speed and reversing gearing. No. 1,401,636; Dec. 27.

Osbon, Charles B., Somerville, Mass. Ship's davit. No. 1,401,919; Dec. 27.

Overton, Edward F., Buffalo, N. Y. Apparatus for treating sewage. No. 1,401,182; Dec. 27.

Packard, Raymond P., Tacoma, Wash. Sales-slip. No. 1,401,812; Dec. 27.

Page-Lewis Arms Company. (See Lewis, George S., assignor.)

Paine, Henry W., Eagle Grove, Iowa. Valve-spring-compressing tool. No. 1,401,920; Dec. 27.

Palich, Martin B., Chicago, Ill. Sock-holding device. No. 1,401,723; Dec. 27.

Palij, Michal, Chicago, Ill. Mask. No. 1,401,724; Dec. 27.

Palmer, Thomas H., Melbourne, Victoria; H. V. Seale and R. D. Nevett, Broken Hill, New South Wales, Australia. Flotation separation of mineral substances. No. 1,401,435; Dec. 27.

Pannier, Arthur A., Salt Lake City, Utah. Combined hand and self inking stamp. No. 1,401,436; Dec. 27.

Parchert, Frederick L., Brookline, assignor to Apsley Rubber Company, Hudson, Mass. Shoe-rack. No. 1,401,356; Dec. 27.

Parkinson, George, and J. Davidson, Calgary, Alberta, Canada. Valve. No. 1,401,637; Dec. 27.

Parks-Cramer Company. (See Thompson, Albert W., assignor.)

Parks, Fred M., Murrayville, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,401,638; Dec. 27.

Parmenter, Joseph J., assignor to Marshall Field & Company, Chicago, Ill. Automobile-trunk. No. 1,401,183; Dec. 27.

Parsons, Charles A., Newcastle-upon-Tyne, and S. S. Cook, Wallsend, England; said Cook assignor to said Parsons. Forming gear-teeth. No. 1,401,550; Dec. 27.

Parsons, Frederick W., Elmira, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Fluid-actuated clinch-pulley. No. 1,401,551; Dec. 27.

Patent-Freuhand-Gesellschaft fuer Electrische Gluhlampen, M. B. H. (See Raumbauer, Heinrich, assignor.)

Patterson, M. F., Dental Supply Company. (See Knapp, K. W., and Holmes, assignors.)

Patterson, Mordaunt, et al. (See Tow, John Z., assignor.)

Payne, Arthur L. (See Steinmetz, Theodore A., assignor.)

Pearlstien, Julius B., Brooklyn, N. Y. Shirt. No. 1,401,725; Dec. 27.

Pearson, John W., San Francisco, Calif. Dipping apparatus. No. 1,401,437; Dec. 27.

Pearson, Herbert P., assignor to Kendall Products Corporation, New York, N. Y. Invisible waterproof printing fluid. No. 1,401,357; Dec. 27.

Pedersen, John D., Jackson, Wyo. Firearm. No. 1,401,552; Dec. 27.

Peller, Karl E., Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Glass-feeding apparatus. No. 1,401,921; Dec. 27.

Peller, Karl E., West Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Glass-working. No. 1,401,922; Dec. 27.

Pfager, Harry M., St. Louis, Mo. Booster-motor support. No. 1,401,553; Dec. 27.

Pelle, Samuel, Omaha, assignor of one-half to J. L. Galbreth, Superior, Nebr. Tobacco-leaf crusher. No. 1,401,438; Dec. 27.

Perfection Auto Window Company. (See Fletcher, Joseph H., assignor.)

Perron, John, Salem, Mass. Invalid-table. No. 1,401,639; Dec. 27.

Perry, Edwin H. (See Miller, A. C., and Perry.)

Peterkin, Guy S., Seattle, Wash. Tampon. No. 1,401,358; Dec. 27.

Petersen, Peter, Indianapolis, Ind., assignor of one-half to T. J. Coster, Chicago, Ill. Producing lactic ferment culture for milk. No. 1,401,278; Dec. 27.

Peter, Stephen, Omaha, Nebr. Combined key ring and holder. No. 1,401,154; Dec. 27.

Pettit, Hugh, Memphis, Tenn. Lint-cotton-treating machine. No. 1,401,439; Dec. 27.

Phillips, Josephine M., Elisabeth, N. J. Bed-jack. No. 1,401,554; Dec. 27.

Phillips, William W., Richmond, Va. Automatic coupling. No. 1,401,439; Dec. 27.

Pierce, William L., New York, N. Y. Hem-stitch attachment for sewing-machines. No. 1,401,726; Dec. 27.

Pilion, Aimé. (See Ravez, E., and Pilion.)

Pimlott, Peter, Brooklyn, N. Y. Curtain-pole. No. 1,401,727; Dec. 27.

Pinches, Conrad H. (See Rönn, Jens A., assignor.)

Pinches, Enita R. (See Rönn, Jens A., assignor.)

Pincus, Adolph, et al. (See Newland, R. T., and Merriam, assignors.)

Pittoni, Louis E. (See Stabower, G. F., and Pittoni.)

Plains Iron Works Company, The. (See Curtis, Homer P., assignor.)

Pneumatic Process Flotation Company. (See Gahl, Rudolf, assignor.)

Popper, Joseph, Brooklyn, assignor of one-half to Baird-Daniels Co., Inc., New York, and one-half to R. H. Popper, Brooklyn, N. Y. Toy spinning-top. No. 1,401,813; Dec. 27.

Popper, Ruby H., et al. (See Popper, Joseph, assignor.)

Porter, George G., Syracuse, N. Y. Safety mutual stop for Ford clutch-pedals. No. 1,401,359; Dec. 27.

Porter, John J., Hagerstown, Md. Chemical appliance. No. 1,401,186; Dec. 27.

Porter, William K., Pittsburgh, Pa. Coaster wagon and sled. No. 1,401,640; Dec. 27.

Poschadel, Leonard R., Milwaukee, Wis. Pneumatic tire. No. 1,401,814; Dec. 27.

Peer, Edward J., Philadelphia, Pa. Dumping-box. No. 1,401,139; Dec. 27.
Peiler, James C., Fawcett, S. C. Ring spinning or twisting machine. No. 1,401,129; Dec. 27.
Perry, Orrin E., Chicago, Ill. Demountable automobile-wheel. No. 1,401,412; Dec. 27.
Pratt, W. E. (See Clark, Elmer A., assignor.)
Pray, Louis H., Medford, Mass. Unit system for stage-plants. No. 1,401,786; Dec. 27.
Pressler, Walter. (See Gould, E. J., and Pressler.)
Prestige, Charles F., assignor to E. Mayerstadt, Chicago, Ill. Curtain-window. No. 1,401,360; Dec. 27.
Preston, Charles L., Massachusetts, assignor to J. Sanders, New York, N. Y. Making sandstone. No. 1,401,361; Dec. 27.
Pressley, Herman E., Jonesboro, Ark. Electric resistance unit. No. 1,401,136; Dec. 27.
Prinzler, Chr., & Sons. (See Prinzler, Joseph, assignor.)
Prisbe, Carnegie, assignor to Geo. Prisbe & Sons, Inc., Pocatello, Idaho. Commercial form. No. 1,401,641; Dec. 27.
Prizer, Harry A., assignor to William Mann Company, Philadelphia, Pa. Check-book. No. 1,401,270; Dec. 27.
Process Engineers Incorporated. (See De Coe, Jackson A., assignor.)
Provost, Oscar M., and R. C. Sutherland, Wyoming, Ohio. Pumping mechanism for oil-wells. No. 1,401,440; Dec. 27.
Quast, George H., Los Angeles, Calif. Seat-weight. No. 1,401,441; Dec. 27.
Raehlin, Max, New York, N. Y., assignor of one-half to S. M. Gold. Window protector-box. No. 1,401,810; Dec. 27.
Rachford, Francis H., West Alexander, Calif. Direction-indicator for automobiles. No. 1,401,197; Dec. 27.
Rand, James H., North Tonawanda, N. Y. Labeling device. No. 1,401,280; Dec. 27.
Rathjens, George W., Norfolk, Nebr. Carpet-fastening device. No. 1,401,400; Dec. 27.
Rauenberger, Larence E., assignor to The Steel Products Engineering Company, Springfield, Ohio. Internal-combustion engine. No. 1,401,443; Dec. 27.
Ravas, Etienne, and A. Pillon, Oullins, France. Supply-cock for the delivery of measured quantities of liquid. No. 1,401,642; Dec. 27.
Ravas, Etienne, and A. Pillon, Oullins, France. Valve. No. 1,401,643; Dec. 27.
Ray, Carl G., Racine, Wis. Flexible filing-cabinet. No. 1,401,188; Dec. 27.
Rayfield, Charles L., Chicago, Ill. Carburetor. No. 1,401,555; Dec. 27.
Reclamation Oil Producing Association. (See Crellin, Frank E., assignor.)
Reed, Asbury, et al. (See Bertrand, John A., assignor.)
Reeve, Charles D., Grand Rapids, Mich., assignor to Wilcox Pressed Steel Company, Chicago, Ill. Hasp. No. 1,401,491; Dec. 27.
Reeves, Joseph T., assignor (twenty-five one-hundredths to R. M. Hayes, Brooklyn, N. Y. Navigational instrument. No. 1,401,362; Dec. 27.
Reiche, Arthur, Berlin, Germany, assignor to Aktiengesellschaft Ars, Stockholm, Sweden. Projecting apparatus. No. 1,401,189; Dec. 27.
Reimann, Fred W., Manistique, Mich. Tag holder and illuminator. No. 1,401,731; Dec. 27.
Remington Accounting Machine Corporation. (See Woodward, Oscar, assignor.)
Remy Electric Company. (See Replogle, James B., assignor.)
Renault, Gustave A., Paris, France. Clasping device for articles of apparel. No. 1,401,556; Dec. 27.
Replogle, James B., Detroit, Mich., assignor to Remy Electric Company, Anderson, Ind. Regulating device for dynamo-electric machines. No. 1,401,492; Dec. 27.
Replogle, James B., Detroit, Mich., assignor to The Remy Electric Company. Induction-coil. No. 1,401,493; Dec. 27.
Reynolds, Carrie E., executrix. (See Reynolds, Henry E.)
Reynolds, Henry E., deceased, Braintree, Mass., C. E. Reynolds, executrix. Fare receiving and registering apparatus. No. 1,401,732; Dec. 27.
Rhorer, Homer M., and J. T. Davis, Tulsa, Okla. Cable-shackle. No. 1,401,494; Dec. 27.
Rice, Chester W., Schenectady, N. Y., assignor to General Electric Company. Method of and apparatus for amplification of small currents. No. 1,401,644; Dec. 27.
Richard, Stephen, Jr., Worcester, Mass. Gang-saw and multiple rod-cutting machine. No. 1,401,368; Dec. 27.
Richer, Joseph R., and J. O. Hessler, assignors to Star Tool and Manufacturing Company, Chicago, Ill. Pump. No. 1,401,443; Dec. 27.
Rigby, Samuel S., New Castle, Pa. Trolley-wheel. No. 1,401,495; Dec. 27.
Rigg, Gilbert, assignor to Mining and Metallurgical Process Proprietary Limited, Melbourne, Victoria, Australia. Desulfurization of zinc sulfid. No. 1,401,733; Dec. 27.
Riley, Lynn G., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,401,645; Dec. 27.
Rimple, Edward J., and J. W. Morgan, San Jose, Calif. Gang-plow. No. 1,401,496; Dec. 27.
Risley, Sheridan, assignor to The Cleveland Dental Manufacturing Company, Cleveland, Ohio. Mouth-prop. No. 1,401,190; Dec. 27.
Ritchey, Andrew M., San Antonio, Tex. Railway-crossing. No. 1,401,191; Dec. 27.
Rivera, Francisco. (See Elviery, Francisco, and F.)
Rivera, Francisco, and F., Barcelona, Spain. Apparatus for the manufacture of wire netting. No. 1,401,507; Dec. 27.
R. E. Le Blond Machine Tool Company, The. (See Groene, William F., assignor.)
Roberts, Arthur, Evanston, assignor to American Coke & Chemical Company, Chicago, Ill. Heating walls. No. 1,401,497; Dec. 27.
Roberts, Charles D., Berkeley, Calif. Hinge. No. 1,401,734; Dec. 27.
Roberts, Charles C., Springdale, Conn. Extension-belt. No. 1,401,444; Dec. 27.
Roberts, Frank C., Wynnewood, Pa. Bouncing suits associated in or worked by games. No. 1,401,735; Dec. 27.
Roberts, Owen F., Kansas City, Mo., assignor to E. B. Cassidy, Chicago, Kans. Wrench. No. 1,401,817; Dec. 27.
Robertson, George. (See Atack, F. W., and Robertson.)
Robinson, Grosvenor P., Summit, N. J. Lighting fixture. No. 1,401,264; Dec. 27.
Roesch, Otto M., assignor, by mesne assignments, to The Martin Firearms Corporation, New Haven, Conn. Revolver. No. 1,401,854; Dec. 27.
Rohrbach, Max, Wiesbaden, near Pirna, Germany. Plate-gauge. No. 1,401,313; Dec. 27.
Rosigna, Joseph G., Pittsburgh, Pa. Forming post from sheet. No. 1,401,446; Dec. 27.
Rohn, Eric L., La Salle, Ill. Arbor. No. 1,401,251; Dec. 27.
Rosenbaum, Floyd E., West Lafayette, Ind., Valve. No. 1,401,623; Dec. 27.
Rhun, Jens Anders, Kolding, Jutland, Denmark, assignor to Emil E. Fischer, London, England. Saliva ejector for use in dental treatment and the like. No. 1,401,645; Dec. 27.
Rowan, Patrick J., New Rochelle, N. Y. Tide-power motor. No. 1,401,559; Dec. 27.
Rowe, Edward E., Swissvale, and C. A. Smith, Edgewood Park, Pa., assignors to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,401,647; Dec. 27.
Rossi, Carlo, Legnano, Italy. Producing potash containing fertilizers. No. 1,401,648; Dec. 27.
Rossi, Carlo, Legnano, Italy. Production of potash containing fertilizers. No. 1,401,649; Dec. 27.
Roth, Julius J., Sr. (See Michaelson, G., and Roth.)
Rothschild, Walter L., New Rochelle, N. Y. Card for holding buttons. No. 1,401,786; Dec. 27.
Rotys, Vernon, Paterson, N. J. Saw-gage. No. 1,401,500; Dec. 27.
Rude, Gilbert T., Washington, D. C. Star finder and identifier. No. 1,401,448; Dec. 27.
Rumberger, Bradley W., assignor to Southern Carbon Company, Fairbanks, La. Producing carbon-black. No. 1,401,737; Dec. 27.
Rumberger, Bradley W., assignor to Southern Carbon Company, Fairbanks, La. Producing carbon-black. No. 1,401,738; Dec. 27.
Runge, Robert F., Philadelphia, Pa., assignor to The Hess-Bright Manufacturing Company. Chuck. No. 1,401,102; Dec. 27.
Ryals, Jesse H., assignor of one-half to G. W. Seibold, Inverness, Fla. Wire-stretcher. No. 1,401,739; Dec. 27.
Ryan, Albert J., Cincinnati, Ohio. Box-toe form. No. 1,401,445; Dec. 27.
Safety Car Heating and Lighting Company, The. (See Watson, Leonard A., assignor.)
Safety Oiling System, Incorporated. (See Kraflock, Charles, assignor.)
Sauer, Celestin. (See Van Orsdale, Allen A., assignor.)
Sargent, Allan C., Westford, Mass., assignor to C. G. Sargent's Sons Corporation. Support for dress-aprons. No. 1,401,366; Dec. 27.
Sargent, George W., Pittsburgh, and J. W. Weitzenkorn, Washington, Pa. Recovering molybdenum from molybdenite. No. 1,401,924; Dec. 27.
Sargent, George W., Pittsburgh, and J. W. Weitzenkorn, Washington, Pa. Alloy steel. No. 1,401,925; Dec. 27.
Sargent, George W., Pittsburgh, and J. W. Weitzenkorn, Washington, Pa. Alloy steel. No. 1,401,926; Dec. 27.
Sargent, George W., Pittsburgh, and J. W. Weitzenkorn, Washington, Pa. Recovering molybdenum from molybdenite. No. 1,401,927; Dec. 27.
Sargent's, C. G., Sons Corporation. (See Sargent, Allan C., assignor.)
Sassaman, John H., assignor to United Food Products Company, Houston, Tex. Food compound and making the same. No. 1,401,450; Dec. 27.
Sauerwein, Peter B., Tacoma, Wash. Carbon-removing device. No. 1,401,402; Dec. 27.
Schaake, William, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley-hanger. No. 1,401,650; Dec. 27.
Schaf, Joseph C., Jr., and W. J. Holliday, Indianapolis, Ind. Test stand for testing starting motors. No. 1,401,740; Dec. 27.
Schäfer, Max, Stuttgart, and A. Kraus, Cannstatt, assignors to Firm of Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Short-circuiting device for electrical ignition apparatus. No. 1,401,847; Dec. 27.
Scharlau, Paul. (See Brown, Enoch S., assignor.)

Scharnagel, Herman J., Tarpinsville, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Fluid-current motor. No. 1,401,951; Dec. 27.
Schaumburger, Louis. (See Clark, H. H., and Schaumburger.)
Schenkel, Marx P., Oakland, Calif. Propeller-pump. No. 1,401,193; Dec. 27.
Scheuer, Elmer. (See Stratford, H. R., and Scheuer.)
Schiller, Morris, St. Louis, Mo. Sewing-machine. No. 1,401,561; Dec. 27.
Schoell Mfg. Co. (See Heintze, Edmund, assignor.)
Schonebell, Hugo, Courbevoie, France. Exhaust-box. No. 1,401,168; Dec. 27.
Schroodter, Edmund, assignor to The O. Maurer Company, Incorporated, Brooklyn, N. Y. Ash-receiver. No. 1,401,282; Dec. 27.
Schumacher, Elmer L., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting and blocking same. No. 1,401,285; Dec. 27.
Schweitzer & Conrad. (See Conrad, Nicholas J., assignor.)
"Scintilla." (See Billon, F., and Bohli, assignors.)
Scofield, George W. (See Ryals, Jesse H., assignor.)
Scott, Oliver P., Tacoma, Wash. Electric side-wall heater. No. 1,401,447; Dec. 27.
Scott, Oliver P., Tacoma, Wash. Electric heater. No. 1,401,560; Dec. 27.
Scully, John J., assignor, by mesne assignments, to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Electric switch for phonographs. No. 1,401,802; Dec. 27.
Seale, Harry V. (See Palmer, T. H., Seale, and Nevett.)
Sealright Co., Inc. (See Bond, Joseph T., assignor.)
Searles, Herbert N., Oyster Bay, N. Y. Cooling radiators. No. 1,401,662; Dec. 27.
Sears, Roebuck and Co. (See Miller, A. C., and Perry, assignors.)
Seignol, Edouard, Neuilly-sur-Seine, France. Coupling-chain. No. 1,401,194; Dec. 27.
Seguin, Laurent, assignor to Societe des Moteurs Gnome et Rhone, Paris, France. Connecting-rod arrangement for star-shaped motors. No. 1,401,284; Dec. 27.
Seguin, Laurent, assignor to Societe des Moteurs Gnome et Rhone, Paris, France. Connecting-rod head for rotative motors. No. 1,401,285; Dec. 27.
Shapiro, Abraham S. (See Kalman, L. O., and Shapiro.)
Shapiro, Samuel G., New York, N. Y. Device for use in attaching heels to shoes. No. 1,401,819; Dec. 27.
Sharples, David T., and G. D. Grosner, assignors to The Sharples Specialty Company, West Chester, Pa. Bearing. No. 1,401,195; Dec. 27.
Sharples, Philip T., St. Davids, Pa. Centrifugal machine. No. 1,401,196; Dec. 27.
Sharples, Philip T., St. Davids, Pa. Spindle for centrifugal machines. No. 1,401,197; Dec. 27.
Sharples Specialty Company, The. (See Sharples, D. T., and Grosner, assignors.)
Shatz, Barnett, Buenos Aires, Argentina. Device to graduate the distance of the lines of typewriting-machines, specially for writing on ruled paper. No. 1,401,653; Dec. 27.
Shaw, Charles E., East Weymouth, Mass. Preparation of knitted fabrics for use. No. 1,401,501; Dec. 27.
Shaw, James H., Oakley, Calif. Packing material. No. 1,401,198; Dec. 27.
Shea, Thomas J., Portland, Oreg. Joining plates or the like. No. 1,401,448; Dec. 27.
Sheldon, Samuel B., Duluth, Minn. Ingot-pouring mechanism. No. 1,401,928; Dec. 27.
Shepard, Francis H., New Rochelle, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Measuring system. No. 1,401,654; Dec. 27.
Shindel, Harry F. (See Willson, F., and Shindel.)
Shoold, Mark, assignor to Armour Fertilizer Works, Chicago, Ill. Treating alunite. No. 1,401,741; Dec. 27.
Sills, Lanra E., St. Paul, Minn. Portable electric lamp. No. 1,401,820; Dec. 27.
Silverman, Harry A., New York, N. Y. Perforating apparatus. No. 1,401,822; Dec. 27.
Silverman, Harry A., New York, N. Y. Perforating-iron. No. 1,401,821; Dec. 27.
Simmons Company. (See Dillon, Guy, assignor.) (Reissue.)
Simpson, Emory G., assignor to Fisher Body Corporation, Detroit, Mich. Door-lock. No. 1,401,368; Dec. 27.
Simpson, George W. S., London, England, and R. F. Lyle, Greenock, Scotland. Filtration of sugar liquors. No. 1,401,199; Dec. 27.
Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)
Singer Manufacturing Company, The. (See Webb, Irving F., assignor.)
Sipp, Grant, Paterson, N. J. Warping and beaming machine. No. 1,401,655; Dec. 27.
Siebower, George F., Flushing, and L. E. Pittoni, New York, assignors to Manhattan-Rome Company, branch of Rome Metallic Bedstead Co., Long Island City, New York, N. Y. Couch-hammock. No. 1,401,286; Dec. 27.
Sissel, John H., Masonville, Iowa. Tractor structure. No. 1,401,287; Dec. 27.
Slack, John W., assignor to Columbia Postal Supply Company, Silver Creek, N. Y. Canceling device. No. 1,401,742; Dec. 27.
Smith and Furbush Machine Company. (See Bokum, W. F., and Coulston, assignors.)
Smith, Arthur R., New Albany, Ind. Protractor for laying off flues, angles, and elevations in building and similar work. No. 1,401,200; Dec. 27.
Smith, Burns L., Syracuse, N. Y. One-piece cast-metal wheel and making the same. No. 1,401,502; Dec. 27.
Smith, Charles A. (See Rose, E. E., and Smith.)
Smith, George F., Baltimore, Md. Bakers' oven. No. 1,401,823; Dec. 27.
Smith, George F., Baltimore, Md. Rotary oven. No. 1,401,824; Dec. 27.
Smith, Joseph D., Marshalltown, Iowa. Door-operating means. No. 1,401,202; Dec. 27.
Smith, Harold J., assignor of one-half to H. F. Baker, Chicago, Ill. Music-roll-perforating machine. No. 1,401,201; Dec. 27.
Smith, William B., Norwood, Ohio. Metal-burnishing machine. No. 1,401,563; Dec. 27.
Smith, William B., Niagara Falls, Ontario, Canada, assignor to American Chain Company, Inc., Bridgeport, Conn. Unit non-skid device. No. 1,401,503; Dec. 27.
Snyder, William A., Los Angeles, Calif. Outing-table. No. 1,401,440; Dec. 27.
Society "Anciens Etablissements Caffort Freres," The. (See Jouffret, Henri V. J., assignor.)
Société des Moteurs Gnome et Rhone. (See Seguin, Laurent, assignor.)
Société Hue Frères et Loubet. (See Loubet, Pierre, assignor.)
Sodeau, William H., and V. P. Francombe, St. Tropez Var, France, assignors to The Whitehead Torpedo Works (Weymouth) Limited, (In Liquidation), Weymouth, England. Automobile torpedo. No. 1,401,288; Dec. 27.
Southern Carbon Company. (See Rumbarger, Bradley W., assignor.)
Southwick, Lawrence P. (See Togde, M., and Southwick.) (Reissue.)
Speed, James B., assignor to Western Electric Company, Incorporated, New York, N. Y. Tetrahedronal magnetic unit. No. 1,401,564; Dec. 27.
Specialty Shoe Machinery Company. (See Finch, Maurice S., assignor.)
Spencer, Corby W. (See Spencer, David B. and C. W.)
Spencer, David B. and C. W., Danville, Ill. Vehicle-wheel and tire. No. 1,401,450; Dec. 27.
Spery, Charles F., Chicago, Ill. Automobile-radiator. No. 1,401,565; Dec. 27.
Sperry, Elmer A., Brooklyn, N. Y. Method and apparatus for separating foreign substances from lead mattes. No. 1,401,743; Dec. 27.
Sperry Gyroscope Company. (See Meitner, E., and Maby, assignors.)
Sperry Gyroscopic Company, The. (See Scharnagel, Herman J., assignor.)
Spinner, Philip V. (See Goldstein, Charles, assignor.)
Spray Engineering Company. (See Day, Herbert W., assignor.)
Squire, Frederick J., Havelock, Ontario, Canada. Tobacco-display case. No. 1,401,825; Dec. 27.
Stalter, Hiram F. (See Cloud, J. E., and Stalter.)
Standish, Edward K., Stoughton, Mass. Tractor. No. 1,401,280; Dec. 27.
St. John, Ancel, Cleveland, Ohio, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Air-brake controlling apparatus. (Reissue.) No. 15,256; Dec. 27.
Star Tool and Manufacturing Company. (See Richer, J. R., and Hessler, assignors.)
Stec, Dominik. (See Babirad, Nicolaus, assignor.)
Steel Products Engineering Company, The. (See Rausenberger, Larence E., assignor.)
Steinmetz, Theodore A., assignor of one-half to A. L. Payne, Eau Claire, Wis. Automatic duplicating-machine. No. 1,401,826; Dec. 27.
Stephens-Adamson Mfg. Co. (See Avery, Colby M., assignor.)
Stephens, John R., St. Louis, Mo. Car-axle bearing. No. 1,401,203; Dec. 27.
Sterling Bronze Company. (See Becker, Sylvester, assignor.)
Sterling, Paul, Wilkes-Barre, Pa. Automatic feeding means for shakers. No. 1,401,370; Dec. 27.
Stillwell, Samuel F., Grafton, W. Va. Rail-joint. No. 1,401,827; Dec. 27.
Stoddard, Leon B., Baker, Oreg. Loose-leaf binder. No. 1,401,566; Dec. 27.
Stokes & Smith Company. (See Fogde, M., and Southwick, assignors.)
Stokes & Smith Company. (See Fogde, M., and Southwick, assignors.) (Reissue.)
Stokes, John S. (See Novotny, Emil E., assignor.)
Storey, Norman C., Aguirre, Porto Rico, West Indies. Power-transmitting mechanism. No. 1,401,204; Dec. 27.
Strand, David, assignor, by mesne assignments, to R. W. Glasner, Chicago, Ill. Die-cushion. No. 1,401,371; Dec. 27.
Stratford, Herbert R., and E. Scheuer, Cleveland, Ohio. Process and apparatus for manufacturing hollow rubber articles. No. 1,401,567; Dec. 27.
Stunkel, Lewis, Peck, Kans. Rail-support. No. 1,401,656; Dec. 27.
Sturtevant Mill Company. (See Doyle, William T., assignor.)
Sullivan Machinery Company. (See Cartlidge, Frank, assignor.)

Sullivan Machinery Company. (See Halloch, Frank A., assignor.)
Sullivan Machinery Company. (See Halvorsen, Halvert B., assignor.)
Sullivan Machinery Company. (See Holdsworth, Fred D., assignor.)
Sullivan Machinery Company. (See Oliphant, John, assignor.)
Suter, Ernest A., Ancoats, Manchester, England. Automatic fitting for mariners' compasses. No. 1,401,208; Dec. 27.
Sutherland, Robert F., Rochester, assignor to Vacuum Oil Company, New York, N. Y. Elevator mechanism for conveyers. No. 1,401,372; Dec. 27.
Sutherland, Russell C. (See Provorse, O. M., and Sutherland.)
Svoboda, Ferdinand, Chicago, Ill. Wheeled toy. No. 1,401,373; Dec. 27.
Swain, Edward A. (See Karmire, William J., assignor.)
Swartz, Edward G., New Orleans, La. Lumber-cradle. No. 1,401,206; Dec. 27.
Swearingen, Walter E., Montgomery City, Mo. Wrench for battery-terminals. No. 1,401,839; Dec. 27.
Swebilius, Carl G., assignor, by mesne assignments, to The Marlin Firearms Corporation, New Haven, Conn. Repeating firearm. No. 1,401,545; Dec. 27.
Swinson, Harman H., Raleigh, N. C. Grain-harrester. No. 1,401,329; Dec. 27.
Swissgabel, Charles F., Dayton, Ohio. Chuck. No. 1,401,207; Dec. 27.
Swonger, James M., Mansfield, Ohio. Bridge. No. 1,401,374; Dec. 27.
Sykora, Rudolf, Boston, Mass. Coloring machine. No. 1,401,504; Dec. 27.
Sykora, Rudolf, Boston Mass. Friction-drive mechanism. No. 1,401,505; Dec. 27.
Sylvan, Joseph, Chicago, Ill. Rides construction for skylights and the like. No. 1,401,208; Dec. 27.
Syndicat Electro-Staal. (See Vermaes, Stefanus J., assignor.)
Taylor, Charles W. A., Dunston-on-Tyne, England. Rudder-brake. No. 1,401,290; Dec. 27.
Taylor, William, Leicester, England. Grinding glass. No. 1,401,830; Dec. 27.
Taylor, William, Leicester, England. Method of and apparatus for grinding glass. No. 1,401,831; Dec. 27.
Taylor, William, Leicester, England. Method of grinding glass. No. 1,401,832; Dec. 27.
Teich, Tonka Semmig, née, Dresden, Germany. Reproducing hats. No. 1,401,569; Dec. 27.
Thackray, George E., Westmont borough, Pa. Car. No. 1,401,533; Dec. 27.
Theoflos, Nicholas P., Chicago, Ill. Automatic railway gate and signal apparatus. No. 1,401,375; Dec. 27.
Thompson, Albert W., Lowell, assignor, by mesne assignments, to Parks-Cramer Company Boston, Mass. Fiber-conditioning process and apparatus. No. 1,401,376. Dec. 27.
Thompson, James A., Rushville, Ill. Tray. No. 1,401,209; Dec. 27.
Thornton, Frank, Jr., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Electric heating unit. No. 1,401,657; Dec. 27.
Tokheim Oil Tank and Pump Company. (See Ellers, Frank B., assignor.)
Tow, John Z., assignor of one-third to M. Patterson and one-third to S. R. Murphy, Springfield, Tenn. Automatic stop for phonographs. No. 1,401,658; Dec. 27.
Tower, George, Jr. (See Cowan, Richard S., assignor.)
Townsend, George R., Winchester, Mass., assignor, by mesne assignments, to Gillespie Eden Corporation. Clothes-wringer. No. 1,401,210; Dec. 27.
Touceda, Enrique A., Albany, N. Y. Centrifugal machine. No. 1,401,291; Dec. 27.
Travers, Webster F., Cleveland, Ohio. Rim for vehicle-wheels. No. 1,401,377; Dec. 27.
Tretter, Anthony M., Covington, Ky. High chair. No. 1,401,834; Dec. 27.
Troy Laundry Machinery Company. (See Allen, Charles H., assignor.)
Truck Engineering Company, The. (See Le Poros, Darrell E., assignor.)
Trundle, George T., Jr., Cleveland Heights, assignor to The American Multigraph Company, Cleveland, Ohio. Milling-machine. No. 1,401,378; Dec. 27.
Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Dynamo-electric machine. No. 1,401,947; Dec. 27.
Tubular Steel Automobile Wheel Mfg. Co. (See Minnick, Frederick L., assignor.)
Turner, Charles W., assignor to Massillon-Cleveland-Akron Sign Company, Massillon, Ohio. Two-way sign-printing press. No. 1,401,570; Dec. 27.
Underfeed Stoker Company of America, The. (See De Voe, William E., assignor.)
Union Switch & Signal Company, The. (See Beall, Charles R., assignor.)
United Shoe Machinery Corporation. (See Casgrain, Louis A., assignor.)
United Shoe Machinery Corporation. (See Godtu, G., and Mackenzie, assignors.)
United Shoe Machinery Corporation. (See Gouldbourn, Joseph, assignor.)
United Shoe Machinery Corporation. (See Hubbard William, assignor.)
United Shoe Machinery Corporation. (See Lund, Thomas, assignor.)
United Shoe Machinery Corporation. (See Macleod, Albert A., assignor.)
United Wood Products Company. (See Sassaman, John H., assignor.)
Universal Safety Suit Co. (See Dada, James E., assignor.)
U. S. Ball Bearing Mfg. Co. (See Black, John, assignor.)
U. S. Light & Heat Corporation. (See Turbayne, William A., assignor.)
Vacuum Oil Company. (See Sutherland, Robert F., assignor.)
Valve Bag Company, The. (See Hartman, Louis H., assignor.)
Van Meter, James W., San Francisco, Calif. Diffusing and disseminating poisonous gases. No. 1,401,392; Dec. 27.
Van Meter, James W., San Francisco, Calif. Portable chlorin-dispenser. No. 1,401,393; Dec. 27.
Van Orsdale, Allen A., Philadelphia, Pa., assignor to C. Sauer, Lubricator. No. 1,401,835; Dec. 27.
Van Orsdale, Allen A., Philadelphia, Pa., assignor to C. Sauer, Lubricator. No. 1,401,836; Dec. 27.
Van Vechten, Edwin F., Milwaukee, Wis. Display mechanism. No. 1,401,837; Dec. 27.
Vaughan, Francis L., Salt Lake City, Utah. Surveying instrument. No. 1,401,580; Dec. 27.
Vaughan, Vincent V., assignor to Northern Equipment Company, Erie, Pa. Chain grate. No. 1,401,211; Dec. 27.
Vermaes, Stefanus J., Delft, assignor to Syndicaat Electro-Staal, The Hague, Netherlands. Rotary kiln. No. 1,401,212; Dec. 27.
Verner, Eyvind M., et al. (See Anderson, Arvin E., assignor.)
Vickers Limited. (See Dawson, A. T., and Horne, assignors.)
Vilsmeier, Harry, and Company. (See Anderson, Harry T., assignor.)
Vogt, Frank P., Chicago, Ill. Hopper and discharge-chute. No. 1,401,837; Dec. 27.
Volet, René A. L., Paris, France. Dynamic balancing-machine. No. 1,401,858; Dec. 27.
Voss, Clara S. E., assignor to Crescent Belt Fastener Company, New York, N. Y. Belt-fastener. No. 1,401,506; Dec. 27.
Wahlin, Axel W., assignor to G. Lidgren, Chicago, Ill. Phonograph-needle sharpener. No. 1,401,213; Dec. 27.
Wahlin, Axel W., assignor to G. Lidgren, Chicago, Ill. Phonograph-needle sharpener. No. 1,401,929; Dec. 27.
Wainwright Engineering Corporation. (See Wainwright, Harry A., assignor.)
Wainwright, Harry A., assignor to Wainwright Engineering Corporation, Connersville, Ind. Piston-ring. No. 1,401,930; Dec. 27.
Wall, Arthur W., Sheldon, near Birmingham, assignor of three-fourths to J. White, Jr., Boulton Road, Birmingham, England. Valve mechanism of internal-combustion engines. No. 1,401,294; Dec. 27.
Ward, Artemas. (See Giles, Harvey, assignor.)
Ward, John L., Hutchinson, Kans. Gearing. No. 1,401,651; Dec. 27.
Ward, John A., Wilkes-Barre, Pa. Automobile theft-protection device. No. 1,401,840; Dec. 27.
Ward Leonard Electric Company. (See Kahler, Leonard, assignor.)
Warner, Arthur W., Media, Pa., assignor to The American Gas Company of New Jersey, Camden, N. J. Retort-stoking apparatus. No. 1,401,295; Dec. 27.
Warren Webster & Company. (See Potts, James L., assignor.)
Watson, Arthur F., Cheboygan, Mich. Pinch-bar. No. 1,401,214; Dec. 27.
Watson, Harvey L., Indianapolis, Ind., assignor, by mesne assignments, to C. M. Hall-Lamp Company. Control mechanism. No. 1,401,744; Dec. 27.
Watson, Leonard A., Sound Beach, Conn., assignor to The Safety Car Heating and Lighting Company, New York, N. Y. Car-lighting system. No. 1,401,481; Dec. 27.
Weaver, Elmus E., assignor to Weaver Spring Company, Boise, Idaho. Spring suspension mechanism for vehicles. No. 1,401,840; Dec. 27.
Weaver, Elmus E., assignor to Weaver Spring Company, Boise, Idaho. Spring suspension for vehicles. No. 1,401,841; Dec. 27.
Weaver, Elmus E., assignor to Weaver Spring Company, Boise, Idaho. Spring-tensioning mechanism. No. 1,401,842; Dec. 27.
Weaver Spring Company. (See Weaver, Elmus E., assignor.)
Webb, Irving F., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Filled-sack-sewing machine. No. 1,401,296; Dec. 27.
Weber, Harry M., Bloomfield, N. J., assignor to Ellis-Foster Company. Chewing-gum and making same. No. 1,401,402; Dec. 27.
Weidenthal, Harold G., deceased, Cleveland, Ohio; L. S. Weidenthal, executrix. Mold for metal-founders' use and composition of matter for making same. No. 1,401,215; Dec. 27.
Weidenthal, Louise S., executrix. (See Weidenthal, Harold G.)
Weimer, Charles Frankfort, Ind. Commercial card and poster holder. No. 1,401,216; Dec. 27.

Weimar, Conrad S., Elizabeth, N. J. Accessory for motor-trucks. No. 1,401,843; Dec. 27.
Weiss, Alfred H., Willmette, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Switchboard-plug. No. 1,401,217; Dec. 27.
Weltzenkorn, Joseph W., Washington, Pa. Producing molybdenum trioxid. No. 1,401,932; Dec. 27.
Weltzenkorn, Joseph W. (See Sargent, G. W., and Weltzenkorn.)
Weldon, Charles F., Delavan, Wis. Mechanical inking apparatus. No. 1,401,218; Dec. 27.
Werner, Samuel, Rutherford, N. J. Headwear. No. 1,401,745; Dec. 27.
West Clyde, Fall River, Kans. Carbureter accessory. No. 1,401,381; Dec. 27.
Western Electric Company. (See Allen, Roy M., assignor.)
Western Electric Company. (See Lundell, George A. E., assignor.)
Western Electric Company. (See Speed, James B., assignor.)
Western Union Telegraph Company, The. (See Murray, Donald, assignor.)
Westphal, Frederick C., New Brunswick, N. J. Game device. No. 1,401,844; Dec. 27.
Westinghouse Electric & Manufacturing Company. (See Brown, Chester A., assignor.)
Westinghouse Electric and Manufacturing Company. (See Clubb, Lewis W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Colby, Ora A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Darlington, Frederick, assignor.)
Westinghouse Electric Products Company. (See Forshee, Frank F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Henninger, Philip E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kempton, Willard H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Loudon, Warren P., assignor.)
Westinghouse Electric & Manufacturing Company. (See Mateer, J. E., and Alicutt, assignors.)
Westinghouse Electric and Manufacturing Company. (See McClain, John R., assignor.)
Westinghouse Electric and Manufacturing Company. (See Parks, Fred M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Riley, Lynn G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Rose, E. E., and Smith, assignors.)
Westinghouse Electric & Manufacturing Company. (See Schanke, William, assignor.)
Westinghouse Electric & Manufacturing Company. (See Shepard, Francis H., assignor.)
Westinghouse Air Brake Company, The. (See St. John, Ancel, assignor.)
Westinghouse Electric & Manufacturing Company. (See Thornton, Frank, Jr., assignor.)
Wheary, George H., Racine, Wis. Trunk-fixture. No. 1,401,219; Dec. 27.
Whelan, William, Plymouth, England. Adjustable pipe-wrench. No. 1,401,931; Dec. 27.
White, James M., Danville, Va. Pocket attachment for vehicles. No. 1,401,660; Dec. 27.
White, Helen K., Alameda, Calif. Garment-leg supporter. No. 1,401,220; Dec. 27.
White, John, Jr. (See Wall, Arthur W., assignor.)
White, Rollin H., Cleveland Heights, assignor to The Cleveland Tractor Company, Euclid, Ohio. Driving and steering mechanism for motor-vehicles. No. 1,401,221; Dec. 27.
Whitish, Joseph H., Fennimore, Wis. Storm and sun guard for automobiles. No. 1,401,882; Dec. 27.
Whitehead Torpedo Works (Weymouth) Limited. (In Liquidation). (See Sodeau, W. H., and Francombe, assignors.)
Wiberg, Frans M., Falun, Sweden. Method of and furnace for reducing ores and oxygen compounds utilized as ores. No. 1,401,222; Dec. 27.
Wilcox, Howard, Woodstock, N. Y. Motor-vehicle, trailed power. No. 1,401,661; Dec. 27.
Wilcox Pressed Steel Company. (See Reeve, Charles D., assignor.)
Wilcox, Ralph S., Youngstown, Ohio. Vehicle-wheel. No. 1,401,845; Dec. 27.
Wiles, Russell, Riverside, Ill. Camper's bed. No. 1,401,846; Dec. 27.
Wilke, Arthur, Brooklyn, N. Y. Skirt-clasp. No. 1,401,453; Dec. 27.
Wilkinson, James, Schenectady, N. Y., assignor to General Electric Company. Gearing. No. 1,401,662; Dec. 27.
Wilson, Walter, Dunfermline, Scotland. Apparatus for use in making faced concrete building-blocks. No. 1,401,384; Dec. 27.
Williams, Benjamin S., Nashville, Tenn. Float-controlled engine shut-off. No. 1,401,383; Dec. 27.
Williams Devices Company. (See Williams, John, assignor.)
Williams, Henry C., Ravine, Miss. Cultivator. No. 1,401,207; Dec. 27.
Williams, John, Clinton, Iowa, assignor to Williams Devices Company, Wilmington, Del. Pipe-coupling. No. 1,401,847; Dec. 27.
Williams, Joseph A., Cleveland, Ohio. Magneto. No. 1,401,571; Dec. 27.
Williams, Lewis W., Chandler, Okla. Colt's muzzle. No. 1,401,848; Dec. 27.
Williamson, Bert R., Fairfield, assignor to Keyes Fibre Company, Waterville, Me. Bundling-machine. No. 1,401,298; Dec. 27.
Willson, Frederick, and H. F. Shindell, assignors to T. A. Willson & Co., Inc., Reading, Pa. Goggles. No. 1,401,572; Dec. 27.
Willson, T. A., & Co. (See Willson, F., and Shindel, assignors.)
Windahl, Harold O., Chicago, Ill. Perpetual calendar. No. 1,401,385; Dec. 27.
Winton, Alexander, Lakewood, Ohio. Internal-combustion motor and fuel feed therefor. No. 1,401,746; Dec. 27.
Winton, Alexander, Lakewood, Ohio. Motor-starting mechanism. No. 1,401,747; Dec. 27.
Wittenmeier, Fred, Chicago, Ill. Multiple ball-valve. No. 1,401,223; Dec. 27.
Wizard Electric Lamp Company. (See Clausson, M., and Bradt, assignors.)
Wojtasiewicz, Kazimiers, Cleveland, Ohio. Phonograph. No. 1,401,840; Dec. 27.
Woodberry, George B., Glendale, Calif. Irrigating system and applying same. No. 1,401,386; Dec. 27.
Woodin, Ernest C., Chicago, Ill. Brace-arrester and the like. No. 1,401,224; Dec. 27.
Wood, Harry L., Lakewood, Ohio. Battery-post and making a seal. No. 1,401,578; Dec. 27.
Woodward, Oscar, Babylon, assignor to Remington Accounting Machine Corporation, New York, N. Y. Computing-machine. No. 1,401,225; Dec. 27.
Woblenberg, Walter J., New Haven, Conn. Meter. No. 1,401,209; Dec. 27.
Worthington Pump and Machinery Corporation. (See Bösch, Frederick W., assignor.)
Wright, Ashley L., Newton, Mass. Gage-tube protector and illuminator. No. 1,401,574; Dec. 27.
Wright, Roland T., assignor of one-half to J. H. Buncher, St. Louis, Mo. Tobacco-pipe. No. 1,401,226; Dec. 27.
Wyeth, Henrietta M., South Hanson, Mass. Lingerie-strap retainer. No. 1,401,227; Dec. 27.
Wyeert, Henry L., Albany, N. Y. Dental vulcanizer. No. 1,401,933; Dec. 27.
Wolf, Gustav, East Providence, R. I. Cloth-finishing. No. 1,401,663; Dec. 27.
Yates, Odaville, Portland, Oreg. Non-puncturable and non-collapsible pneumatic inside tire. No. 1,401,507; Dec. 27.
Yarrow, Harold E., Glasgow, Scotland. Oil-fired boiler. No. 1,401,850; Dec. 27.
Young, Vincent M., Mason, Iowa. Combination rotary lock. No. 1,401,228; Dec. 27.
Zahm, Albert F., Washington, D. C. Hovering airplane. No. 1,401,934; Dec. 27.
Ziebell, Harvey R., Ripon, Wis. Heater unit. No. 1,401,851; Dec. 27.
Zweigbergk, Thorsten, London, England. Electric locomotive. No. 1,401,575; Dec. 27.
Zubryd, Anton, Jersey City, N. J. Rocking-chair attachment. No. 1,401,229; Dec. 27.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

American Wholesale Corporation. (See Barlow, Carrodus, assignor.)
Baker, Edward E., Pittsfield, Mass. Bottle. No. 60,091; Dec. 27.
Barlow, Carrodus, Allwood, N. J., assignor to American Wholesale Corporation, Baltimore, Md. Oil-can lock-cover. No. 60,092; Dec. 27.
Burns, Benjamin F., Omaha, Nebr. Combined advertising device and pressing stand. No. 60,093; Dec. 27.
Cahn, Tillman, Elkins Park, Pa., assignor to Pioneer Suspender Company. Garter. No. 60,094; Dec. 27.
Christopher, Arthur B., St. Louis, Mo. Indicator. No. 60,095; Dec. 27.
Ellis, Laverne K., Des Moines, Ia. Individual hog-house. No. 60,097; Dec. 27.
Fechteler, William, Kansas City, Mo. Combination cigar-cutter and box-opener. No. 60,098; Dec. 27.
Forrest, Truman H., Seattle, Wash. Portable liquid-dispensing apparatus. No. 60,099; Dec. 27.
Halaby, Albert and J. Wrobel, Minneapolis, Minn. Coffin. No. 60,092; Dec. 27.
Haynes, William J., Jr., assignor to National Wood Renovating Company, Kansas City, Mo. Vacuum-cleaner for mowers. No. 60,094; Dec. 27.
Heindl, William C., Rochester, N. Y. Pinwheel. No. 60,094; Dec. 27.
Howell, Frank B., Buffalo, N. Y. Heating apparatus. Nos. 60,095–6; Dec. 27.
Johnson, Arvid P. (See Kjellstrom, David E., assignor.)
Kasselau, Marguerite, Provincetown, Mass. Ring. No. 60,097; Dec. 27.
Kammer, August F., South Orange, N. J. Bottle. No. 60,098; Dec. 27.
Koons, Frederick W., assignor to Rogers, Lunt & Bowlen Company, Greenfield, Mass. Handle for a spoon, fork, or similar article. No. 60,100; Dec. 27.
Lancaster, Richard, Guilford, W. H. Weather-forecasting device. No. 60,101; Dec. 27.
McNaughton, John. (See McNaughton, Mabel P. and J.)
McNaughton, Mabel P. and J., New York, N. Y. Mop-head. No. 60,103; Dec. 27.
McPhilben Lighting Fixture Company. (See Westphal, Gottfried, assignor.)
Manion, Bernard W., Kansas City, Mo. Oil-burner. No. 60,105; Dec. 27.
National Wood Renovating Company. (See Haynes, William J., Jr., assignor.)
Pioneer, Alphonse F. (See Pioneer, Oscar H. and A. F.)
Pioneer, Oscar H. and A. F., Rochester, N. Y. Combined support and standard for X-ray apparatus. No. 60,106; Dec. 27.
Pioneer Suspender Company. (See Cahn, Tillman, assignor.)
Pulver, Frederic, New York, N. Y. Blasting-machine frame. No. 60,107; Dec. 27.
Quaglino, Vito J., East Boston, Mass. Lens or similar article. No. 60,108; Dec. 27.
Quimby, James F. and M. O., Pawtucket, R. I. Brush. No. 60,107; Dec. 27.
Quimby, Marion O. (See Quimby, James F. and M. O.)
Rast, Felix G., New York, N. Y. Vending-machine casing. No. 60,110; Dec. 27.
Rogers, Lunt & Bowlen Company. (See Koons, Frederick W., assignor.)
Romadka, Francis J., Milwaukee, Wis. Motorcycle-frame. No. 60,109; Dec. 27.
Rowen, Samuel, Utica, N. Y. Combination table and strainer. No. 60,110; Dec. 27.
Sigwalt, Harold P., Milwaukee, Wis. Rocking-deck nursery toy. No. 60,111; Dec. 27.
Skelly, Bernard H., Bridgeport, Conn. Oil-gas generator. No. 60,112; Dec. 27.
Vedutis, Frank A., Millburn, N. J. Shovel. No. 60,113; Dec. 27.
Westinghouse Lamp Company. (See Van Voorhis, Chester C., assignor.)
Westphal, Gottfried, Lakewood, N. J., assignor to McPhilben Lighting Fixture Company, New York, N. Y. Arm for a lighting fixture. Nos. 60,114–15; Dec. 27.
Wrobel, Jan. (See Halaby, A., and Wrobel.)
Yee, Lew, San Francisco, Calif. Basket. No. 60,119; Dec. 27.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Acme Beverage Extract Co., Chicago, Ill. Non-alcoholic, non-cereal, maltless beverages and syrups for making same. No. 149,810; Dec. 27.
Acme Brick Company, Fort Worth, Tex. Bricks and drainage-tiles. No. 149,811; Dec. 27.
Alexandre Works Inc., The, Garden City, N. Y. Furskins. No. 149,813; Dec. 27.
Allnall Mfg. Co., Worcester, Mass. Interior-wall glazing and coloring. No. 149,814; Dec. 27.
Allnall Mfg. Co., Worcester, Mass. Interior warm-water or oil wall-finish. No. 149,815; Dec. 27.
American Accessories Company. (See Beadle, Lynne C., assignor.)
American Agricultural Chemical Company, The, New York, N. Y. Fertilizers. No. 149,816; Dec. 27.
American Calcimine & Chemical Manufacturing Company Limited, The, New York, N. Y., and Cumberland, Md. Certain cloths and fabrics in the piece. No. 149,817; Dec. 27.
American Chicle Company, New York, N. Y. Chewing-gum. No. 149,818; Dec. 27.
American Oil Corporation, Jackson, Mich. Lubricating oils and greases. No. 149,819; Dec. 27.
American Paper Goods Co., The, Kensington, Conn. Round and flat paper drinking-cups. No. 149,820; Dec. 27.
American Thread Company, The, Jersey City, N. J. Spool-cotton, sewing-cotton, thread and cotton yarn. Nos. 149,821–2; Dec. 27.
Anthony, Frank, et al., administrators. (See Gasser, Florence P.)
Arabe Co., The. (See Leyendecker, Robert E., assignor.)
Arbuckle & Company Inc., New York, N. Y. Coffee. No. 149,824; Dec. 27.
Arrow Chemical Company, St. Louis, Mo. Proprietary medicines for the relief of headaches, colds, &c. No. 149,824; Dec. 27.
Atlanta Barbers' Supply Co., Atlanta, Ga. Toilet water and perfumes. No. 150,508; Dec. 27.
Atlantic Macaroni Co. Inc., Long Island City, N. Y. Macaroni. No. 149,825; Dec. 27.
Auerbach, Charles H., and R. F. Auerbach, Chicago, Ill. Insecticides, germicides, and related products. No. 149,826; Dec. 27.
Auto-Ordnance Corporation, New York, N. Y. Shotguns, pistols, rifles, machine-guns, submachine-guns, &c. No. 149,826; Dec. 27.
Autohome Plate Company, Ellensburg, Wash. Name and license plates for motor-vehicles. No. 149,827; Dec. 27.
Ayer, Harriet Hubbard, New York, N. Y. Vanishing cream. No. 149,829; Dec. 27.
Baker, Curtis A., Prescott, Wis. Preparation for treatment of heaves. No. 149,834; Dec. 27.
Barnett, Peter E., Chicago, Ill. Non-alcoholic, maltless, artificial grape beverage and syrup for making same. No. 149,835; Dec. 27.
Bass-Hueter Paint Co., San Francisco, Calif. Paste and ready-mixed paints, varnishes, and stains. No. 149,836; Dec. 27.
Beadle, Lynn C., Detroit, Mich., assignor to American Accessories Company. Combination lifter and stand for vehicle-wheels. No. 149,837; Dec. 27.
Beall, Annie D., Birmingham, Ala. Preparation for the treatment of cancers and cancerous sores. No. 149,838; Dec. 27.
Berkeley Company, Providence, R. I. Cambrics in the piece. No. 149,839; Dec. 27.
Berlin, Julius, New York, N. Y. Medicinal preparation for the treatment of dyspepsia and indigestion. No. 149,840; Dec. 27.
Bernheimer, Jacob S., & Bro., New York, N. Y. Cotton voils in the piece. No. 149,841; Dec. 27.
Bieger, Richard J., St. Louis, Mo. Serial and single cartoons. No. 149,842; Dec. 27.
Biggio, Frank, & Sons, Chicago, Ill. Fresh tomatoes. No. 149,843; Dec. 27.
Birmingham Iron Foundry, Derby, Conn. Drop-presses and automatic drop-lifters for lifting and operating the hammers of drop-presses. No. 149,844; Dec. 27.
Bishop & Company, Los Angeles, Calif. Chocolate in cake form for eating purposes. No. 149,845; Dec. 27.
Blechman, S., & Sons, Inc., New York, N. Y. Hair-nets. No. 149,846; Dec. 27.
Bliss, E. W., Company, Brooklyn, N. Y. Forming and shaping, cutting, trimming, and bending presses, &c. No. 149,847; Dec. 27.
Blue, John, Laurinburg, N. C. Fertilizer-distributer. No. 149,849; Dec. 27.
Borgfeldt, George, & Co., New York, N. Y. Bisque-headed dolls. No. 149,849; Dec. 27.
Bownes, Frank, Company Inc., Lynn, Mass. Dry, ready-mixed, and paste paints. No. 149,850; Dec. 27.
Brager Bros., New York, N. Y. Garment-hangers. No. 149,851; Dec. 27.
Brock, Martin, and August B. Praetsch, Jamaica Plain, Mass. Non-alcoholic, non-cereal, maltless beverage. No. 149,852; Dec. 27.
Brodhead, Jane H., Akron, Ohio. Salve for the treatment of boils and carbuncles. No. 149,853; Dec. 27.
Browne, Stewart R., Mfg. Co., Inc., New York, N. Y. Braided asbestos lubricated yarn packing. No. 149,854; Dec. 27.
Bruder, Edmund, Chicago, Ill. Game-board, game-indicator, game-counter, &c. Nos. 149,855–6; Dec. 27.
Bryant Electric Company, The, Bridgeport, Conn. Electric-lamp sockets and receptacles. No. 149,857; Dec. 27.
Buffalo Society of Natural Sciences, Buffalo, N. Y. Monthly magazine publication. No. 149,858; Dec. 27.
Burlingame, Ira L., St. Louis, Mo. Water-bag-journal coolers. No. 149,859; Dec. 27.
Calico Printers Association Limited, The, Manchester, England. Cotton piece goods. No. 149,860; Dec. 27.
California Fibre Company, San Francisco, Calif. Vegetable fiber to be used in the manufacture of certain goods. No. 149,861; Dec. 27.
California Paint Company, Oakland, Calif. Mixed and dry paint, stains, varnishes, paint enamels, &c. Nos. 149,862–3; Dec. 27.
California Sprayer Company, Los Angeles, Calif. Dust-sprayers for spraying insecticide and fungicide on all kinds of vegetation. No. 149,864; Dec. 27.
California Vegetable Union, Inc., Los Angeles, Calif. Canned pears and tomatoes, certain fresh vegetables and fruits, oranges. No. 149,865; Dec. 27.
Candy Products Corporation, Chicago, Ill. Candy. No. 149,866; Dec. 27.
Capitol Bedding Company, Washington, D. C. Mattresses. No. 149,867; Dec. 27.
Carolina Crushed Shell Co., Charleston, S. C. Crushed oyster-shell used as poultry feed. No. 149,868; Dec. 27.
Carson, Pirie, Scott & Co., assignor to Carson Pirie Scott & Company, Chicago, Ill. Percale dress goods in the piece. No. 149,869; Dec. 27.
Cartier, Inc., New York, N. Y. Purses and pocket books. No. 149,870; Dec. 27.
Central Adhesive Company, Chicago, Ill. Vegetable glue and paste for paper-box manufacturing, &c. No. 149,871; Dec. 27.
Central Furniture Packing Company, The, Chicago, Ill. Crates, wood boxes, and cartons. No. 149,872; Dec. 27.
Central Ohio Paper Company, The, Columbus, Ohio. Correspondence-envelops. No. 150,191; Dec. 27.
Chamberlayne, Inc., New York, N. Y. Household furniture. No. 149,873; Dec. 27.
Channell Chemical Company, Chicago, Ill.; Toronto, Canada; London, England, and Paris, France. Polish for cleaning and polishing furniture, floors, linoleums, &c. Nos. 149,874–5; Dec. 27.
Chase & Sanborn, Boston, Mass. Tea and coffee. No. 149,876; Dec. 27.
Chemische Fabrik vormals Sandoz, Basel, Switzerland. Certain medicinal preparations. No. 149,877; Dec. 27.
Chicago Pneumatic Tool Company, New York, N. Y. Pneumatic tools — namely, riveting-hammers. Nos. 149,878–9; Dec. 27.
Cinderella Heel Corporation, St. Louis, Mo. Metal heels and tread-lifts therefor. No. 149,880; Dec. 27.
Coe-Mortimer Company, The, New York, N. Y. Fertilizers. No. 149,881; Dec. 27.
Coingum Manufacturing Company, Philadelphia, Pa. Vending-machines. No. 149,882; Dec. 27.
Colby Confectionery Company, Inc., The, Los Angeles, Calif. Marshmallow crème. No. 149,883; Dec. 27.
Colgate & Company, Jersey City, N. J. Liquid and powdered perfumes. Nos. 149,884–7; Dec. 27.
Colgate & Company, Jersey City, N. J. Soaps. Nos. 149,888; Dec. 27.
Colgate & Company, Jersey City, N. J. Soaps. No. 150,192; Dec. 27.
Commercial Creamery Company, Spokane, Wash. Condensed buttermilk. No. 149,889; Dec. 28.
Continental Candy Corporation, Chicago, Ill. Candy. No. 149,890; Dec. 27.
Continental Chemical Corporation. (See Longshore, Jas. H., assignor.)
Continental Paper & Bag Mills, New York, N. Y. Paper-bags, egg-cartons, and merchandise-envelops. No. 149,891; Dec. 27.
Cook, Harry A., Yakima, Wash. Adhesive cement. No. 149,892; Dec. 27.
Cooper & Cooper, Inc., New York, N. Y. Chemical, medicinal, and pharmaceutical preparations. No. 149,893; Dec. 27.
Corona Braid Works, Corona, N. Y. Mercerized cotton, &c., soutache and shell-braids. No. 149,894; Dec. 27.
Council, James R., Norfolk, Va. Peanut-brittle. No. 149,895; Dec. 27.
Coward, John, D., Boston, Mass. Traffic-signals for motor-vehicles. No. 149,896; Dec. 27.
D. & D. Remedy Company, Chattanooga, Tenn. General medicinal tonic. No. 149,897; Dec. 27.

Denver Rock Drill Manufacturing Company, Denver, Colo. Rock-drills, drill sharpeners, drill-bits, and parts thereof. No. 149,894; Dec. 27.

Diamond Whip Company, Chicago, Ill. Whips. No. 149,895; Dec. 27.

Donald, William G., Oakland, Calif. Bank-fixtures. No. 149,900; Dec. 27.

Doubleoil Co., Chicago, Ill. Lubricating-oils. No. 149,901; Dec. 27.

Doyle, James A., New York, N. Y. Woolen goods in the piece. No. 149,902; Dec. 27.

Du Bois Laboratories, Inc., New York, N. Y. Criminal's cold-cures. No. 149,903; Dec. 27.

Du Bois Rubber & Tube Company, Chattanooga, Tenn. Rubber tires and tubes. Nos. 149,904–5; Dec. 27.

Dunn, John, Son & Co., New York, N. Y. Lubricating oils and greases. No. 149,906; Dec. 27.

Durs Mechanical Hardware Co., Inc., Toledo, Ohio. Window-regulators. No. 149,907; Dec. 27.

Dusenek, Albert E. H., London, England. Certain construction materials. No. 149,908; Dec. 27.

Eaton, Marshall B., Canandaigua, N. Y. Combination gas-burner deflectors and cookers. No. 149,909; Dec. 27.

Elmwood & Darle, Inc., New York, N. Y. Suits, sweater and tie, &c. No. 149,911; Dec. 27.

Empire Mattress Company, Chicago, Ill. Mattresses. Nos. 150,185–4; Dec. 27.

Empire Notion Co., New York, N. Y. Hair-nets. No. 149,912; Dec. 27.

Enzelberg Huller Company, The, Syracuse, N. Y. Attrition-mills and coffee-shellers. No. 149,913; Dec. 27.

Engstrom, John, Jr., Co., Little Valley, N. Y. Ensilage. No. 149,914; Dec. 27.

Epperheimer & Co., New York, N. Y. Metal molds. No. 149,915; Dec. 27.

Evers-Reuss Co., New York, N. Y. Non-alcoholic beverages and syrups for making same. No. 149,916; Dec. 27.

Federal Rubber Company, The, Cudahy, Wis. Vehicle-tires made wholly or partly of rubber. Nos. 149,917–8; Dec. 27.

Fiberloid Corporation, The, Indian Orchard, Mass. Handrailings. No. 149,919; Dec. 27.

Finch, Nelson W., Chicago, Ill. Tire-fillers. No. 149,920; Dec. 27.

Fisheries Products Co., Inc., The, New York, N. Y. Fertilizers. No. 149,921; Dec. 27.

Fitzpatrick Bros., Chicago, Ill. Soap. Nos. 150,195–9; Dec. 27.

Ford, Henry C., Lima, Ohio. Medicine for cholera and roup. No. 149,922; Dec. 27.

Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. No. 149,923; Dec. 27.

Frame, Abraham L., Reading, Pa. Concrete-mixers. No. 149,924; Dec. 27.

Frank Jackson Co., Chicago, Ill. Polish for leather shoes. No. 150,202; Dec. 27.

French Battery & Carbon Co., Madison, Wis. Dry-cell batteries. No. 149,925; Dec. 27.

Gasser, Charles B., *et al.*, administrators. (See Gasser, Florence P.)

Gasser, Florence P., deceased, Charles B. Gasser and Frank Anthony, administrators, assignors to Jersey Potato Chip Co., Reading, Pa. Potato chips. Nos. 149,926; Dec. 27.

Gerber Company, The, Baltimore, Md. Candy. No. 149,927; Dec. 27.

Giaconi, J. V., & Co., Long Beach, Calif. Canned fish. No. 149,928; Dec. 27.

Gibbs, William M., Duluth, Minn. Shoe-polish. No. 149,929; Dec. 27.

Givan, G. F., Constantine, Ky. Poultry food. No. 149,930; Dec. 27.

Gladding, B. F., & Co., Inc., South Otselic, N. Y. Irish reel fishing lines. Nos. 150,200–1; Dec. 27.

Goldstein, John, New York, N. Y. Adhesive cement. No. 149,931; Dec. 27.

Green, Dr. O. W., & Dr. L. O. Green, Chicago, Ill. Local anesthetic for use in painless extraction of teeth and in general surgery. No. 149,932; Dec. 27.

Greenfield Tap and Die Corporation, Greenfield, Mass. Certain tools and parts of machinery. No. 149,933; Dec. 27.

Griffin, Harry M., Peekskill, N. Y. Headache and neuralgia remedy. No. 149,934; Dec. 27.

Grocers Baking Company, Incorporated, Louisville, Ky. Loaf-cake. No. 149,935; Dec. 27.

Gunn Furniture Company, The, Grand Rapids, Mich. Desks. No. 149,936; Dec. 27.

Gutradt, Joseph, Company, San Francisco, Calif. Soap. No. 149,937; Dec. 27.

Halper, Victor, New York, N. Y. Medicinal preparation to be taken internally for the treatment of gonorrhea. No. 149,938; Dec. 27.

Harriet Hubbard Ayer, New York, N. Y. Preparation for increasing the brilliancy and removing the yellowness from white or gray hair. No. 149,930; Dec. 27.

Harriet Hubbard Ayer, New York, N. Y. Powder and rouge compacts. Nos. 149,931–3; Dec. 27.

Health Laboratories, Scranton, Pa. Specific for blood diseases. No. 149,939; Dec. 27.

Health Laboratories, Scranton, Pa. Specific for rheumatism. No. 149,940; Dec. 27.

Hemmerdinger, L., & Co., New York, N. Y. Marking-cement. No. 149,941; Dec. 27.

Heudler Creamery Company, The, Baltimore, Md. Title for a monthly publication. No. 149,942; Dec. 27.

Hilsbard, Spencer, Bartlett & Co., Chicago, Ill. Certain machines and tools. No. 149,943; Dec. 27.

Hilton Cotton Co. (Incorporated), Louisville, Ky. Paper-bale ties. No. 149,944; Dec. 27.

Hinck & Miller, New York, N. Y. Cotton piece goods. No. 149,945; Dec. 27.

Hiscock, Leonard L., Athens, Tenn., McMinnel Preparation for tonsilitis, sore throat, &c. No. 149,946; Dec. 27.

Hollingshead, R. M., Co., The, Camden, N. J. Flake-graphite, sulco, and soapstone. No. 149,947; Dec. 27.

Holzhauer, R. H., Co., The, Camden, N. J. Certain adhesives. No. 149,948; Dec. 27.

Homeath Products Co., Jersey City, N. J. Preparation for treatment of warts. No. 149,949; Dec. 27.

Hope Webbing Company, Inc., Pawtucket, R. I. Elastic webbing. No. 149,950; Dec. 27.

Howlett & Hemingway Co. Inc., New York, N. Y. Certain fabrics in the piece. No. 149,951; Dec. 27.

Hughes-Keenan Company, Mansfield, Ohio. Metal toilet partitions. No. 149,952; Dec. 27.

Hurst, Percy E., South Croydon, England. Card games. No. 149,953; Dec. 27.

Hoyck, F. C., & Sons, Albany, N. Y. Woolen piece goods, suitings, and overcoating of textile fabric. No. 149,954; Dec. 27.

Ideal Fire Extinguisher Co., Providence, R. I. Hand fire-extinguishers. No. 149,955; Dec. 27.

Independent Brewing Company, St. Louis, Mo. Beer. No. 149,956; Dec. 27.

Industrial Paint Company, The, Milwaukee, Wis. Ready-mixed paint. No. 149,957; Dec. 27.

Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Pneumatic motor-vehicles. No. 149,958; Dec. 27.

International Drug Company, Wilmington, Del. Toilet soap. No. 149,959; Dec. 27.

Interstate Shade Cloth Co., Hoboken, N. J. Shade-cloth. No. 149,960; Dec. 27.

Isbert-Hitzcke Milling Company, The, Kansas City, Kans., and Kansas City, Mo. Mixed wheat and corn flour. No. 149,961; Dec. 27.

Jankowski, Joseph, Chicago, Ill. Salve for certain ailments. No. 149,962; Dec. 27.

Jersey Potato Chip Co. (See Gasser, Florence P., assignor.)

Jinshichi, Kato, Kyoto, Japan. Prepared medicine for certain purposes. No. 149,963; Dec. 27.

Johnston, Cecil, Royse City, Tex. Medicinal preparation for treatment of chills. No. 149,964; Dec. 27.

Jones, Pattie R., Birmingham, Ala. Certain medicinal and scalp preparations. No. 149,964; Dec. 27.

Jones, Robert N., Crystal Springs, Miss. Remedy for piles. No. 149,966; Dec. 27.

K & G Laboratories Co., Chicago, Ill. Egg preservatives. No. 149,969; Dec. 27.

Kanner, Marks & Twarig, New York, N. Y. Misses' and juniors' suits and coats. No. 149,968; Dec. 27.

Karpen, S., & Bros., Chicago, Ill. Upholstered davenports, sofas, rockers, &c. No. 149,967; Dec. 27.

Kasmall Company, The, Philadelphia, Pa. Pipe-thread and gasket compound. No. 149,970; Dec. 27.

Kats, Barney, Chicago, Ill. Preparation for the treatment of certain ailments. No. 149,971; Dec. 27.

Kloss, A. F., Co., Scranton, Pa. Non-alcoholic malt-less beverages and syrups for making same. Nos. 149,972; Dec. 27.

Knapp, Annette, Los Angeles, Calif. Toilet preparation used as a face-pack. No. 149,973; Dec. 27.

Koehring Machine Company, assignor to Koehring Company, Milwaukee, Wis. Concrete-mixers and distributing machines, &c. No. 150,203; Dec. 27.

Kolynos Company, The, New Haven, Conn. Soap. No. 149,974; Dec. 27.

Krebs, Ida M., San Francisco, Calif. Cough-drops. No. 149,975; Dec. 27.

Kronberger, Alfred M., Boston, Mass. Preparation for the removal of cerus. No. 149,976; Dec. 27.

Kuhn, Harry J., Houston, Tex. Paste and liquid paints and painters' enamels, stains, and fillers, and putty. No. 149,977; Dec. 27.

Kuhn, Harry J., Houston, Tex. Varnishes, stains, lacquers, japan driers, &c. No. 149,978; Dec. 27.

Kuhnle, August, Inc., Brooklyn, N. Y. Skylights. No. 149,979; Dec. 27.

Kukac, Edward J., Chicago, Ill. Molds for casting battery parts. No. 149,980; Dec. 27.

Kurzmann, Erich, New York, N. Y. Certain preserved fruits, jams, jellies, pickles, &c. No. 149,981; Dec. 27.

Laclede-Christy Clay Products Company, St. Louis, Mo. Fire brick and tile. No. 149,982; Dec. 27.

Lakeland Phosphate & Fertilizer Company, Wilmington, Del., and Lakeland, Fla. Fertilizers, &c. No. 149,983; Dec. 27.

Langslow, Harry R., Rochester, N. Y. Desks. No. 149,984; Dec. 27.

Levin Store Co., Lindsborg, Kans. Rooted cuttings. No. 149,985; Dec. 27.

Leyandecker, Robert E., assignor to The Arabo Co., Inc., New York, N. Y. Extract of kola and malt for preparing soft drinks. No. 149,986; Dec. 27.

Lilly, Eli, & Company, The, Indianapolis, Ind. Toilet powder. No. 149,910; Dec. 27.

Lincoln, Edward K., New York, N. Y. Auto-varnish, auto dri-satat, (a polish,) cedar floor-polish, &c. No. 149,987; Dec. 27.

Lipshuich, George U., Chicago, Ill. Non-alcoholic beverages. No. 149,988; Dec. 27.

Loft Incorporated, New York, N. Y. Candies. No. 149,989; Dec. 27.

Longshore, Jas. H., assignee to Continental Chemical Corporation, Wataska, Ill. Chemical compounds for certain uses. No. 149,990; Dec. 27.

Lopez & Co., Philadelphia, Pa. Macaroni. No. 149,991; Dec. 27.

Los Angeles Ice & Cold Storage Company, Los Angeles, Calif. Malt-less non-cereal beverages. No. 149,992; Dec. 27.

Lowe Brothers Company, The, Dayton, Ohio. Auto-top dressing. No. 150,204; Dec. 27.

Lull, R. V., Ithaca, N. Y. Preservative cleaner-polish and restorative for varnished and enameled surfaces. No. 149,993; Dec. 27.

Lundy, Wilson & Company Limited, London, England. Antiseptic papers and cigarettes not containing tobacco, being medicated preparations. No. 149,994; Dec. 27.

Lynn, Mary E., Washington, D. C. Hand-drawn express-wagons. No. 149,995; Dec. 27.

Maggi Co., The, Kempttal, Switzerland. Seasonings for improving soups, sauces, gravies, &c. Nos. 149,997–8; Dec. 27.

Mappin & Webb Limited, London and Sheffield, England. Certain cutlery and table flat ware and nutcrackers. No. 149,999; Dec. 27.

Mappin & Webb Limited, London and Sheffield, England. Handles for knives and forks for table use. No. 150,000; Dec. 27.

Marie Marthe Richard Vve. Grenoville, Asnières, France. Perfumes, toilet waters, face-lotion, face-powder, and brilliantine. No. 150,156; Dec. 27.

Mason, John D., Chicago, Ill. Antiseptic, germicide, and medicinal treatment for pyorrhea. No. 150,001; Dec. 27.

Mauser, Otto, San Francisco, Calif. Liver-tonic. No. 150,002; Dec. 27.

Mesmer & Kuhnert Co., Chicago, Ill. Enamel paints. No. 150,076; Dec. 27.

McMillan, D. E., & Bro., Chicago, Ill. Coal. No. 149,996; Dec. 27.

Mecky, A., Company, Philadelphia, Pa. Foot-propelled toy vehicles. No. 150,003; Dec. 27.

Meehan, Florence B., Chicago, Ill. Mechanical dolls. No. 150,004; Dec. 27.

Merit Baby Wear Company, New York, N. Y. Infants' sleeping-garments. No. 150,005; Dec. 27.

Michigan Humus & Chemical Company, Chassell and Klingville, Mich. Fertilizers. No. 150,006; Dec. 27.

Midland Rubber Co., Ltd., Birmingham, England. Golf-balls. No. 150,007; Dec. 27.

Miller, Jacob, Sons & Co., Philadelphia, Pa. Cotton, silk, and linen goods, and mixtures of cotton, silk, and linen. No. 150,008; Dec. 27.

Miller & Headley Company, The, Toledo, Ohio. Cotton sheeting, sheets, and pillow-cases. No. 150,009; Dec. 27.

Mitchell, John W., assignor to U. F. Kester, Paso Robles, Calif. Liniment. No. 150,010; Dec. 27.

Mobile Bros. Coffee Company, Hattiesburg, Miss. Coffee. No. 150,011; Dec. 27.

Moir, Marian, Burlington, Iowa. Wrist score-card. No. 150,012; Dec. 27.

Monmouth County Farmers Exchange, Freehold, N. J. Potatoes. (bagged in their natural state.) No. 150,013; Dec. 27.

Moore, Walter N., Dry Goods Co., San Francisco, Calif. Woven romper-cloths, piece goods. No. 150,014; Dec. 27.

Morandi-Proctor Company, Boston, Mass. Warming-closets, steam-tables, coffee-urns, &c. No. 150,015; Dec. 27.

Morrell, John, & Company, Ottumwa, Iowa. Bacon. No. 150,016; Dec. 27.

Morton, Sundour Fabrics Ld., Dentonhill, Carlisle, England. Certain table-linen, handkerchiefs, &c. No. 150,017; Dec. 27.

Morton Sundour Fabrics Ld., Dentonhill, Carlisle, England. Linen, hemp, silk, wool and worsted piece goods, &c. No. 150,018; Dec. 27.

Mutual Paint Company, St. Paul, Minn. Ready-mixed paints, varnishes, and paint enamels. No. 150,019; Dec. 27.

Narrow Fabric Co., The, West Redding borough, near Reading, Pa. Elastic braids. No. 150,020; Dec. 27.

Nathan & Cie, Laboratoires Cadum, Courbevoie, France. Toilet and shaving soap. No. 150,021; Dec. 27.

National Baking Company, Seattle, Wash. Bread. No. 150,022; Dec. 27.

National Checking Company, St. Paul, Minn. Correspondence-envelopes. No. 150,023; Dec. 27.

National Trading Company, Chicago, Ill. Hair-nets. No. 150,024; Dec. 27.

Navajo Laboratories, Inc., Casper, Wyo. Automobile-polish. No. 150,025; Dec. 27.

Nelson, Harry H., Elmira, N. Y. Non-alcoholic, non-cereal malt-less beverages and syrups for making same. No. 150,026; Dec. 27.

Newport Chemical Works, Incorporated, Passaic, N. J. Dyes. No. 150,027; Dec. 27.

Notaseme Hosiery Company, Philadelphia, Pa. Dolls. Nos. 150,028–9; Dec. 27.

Novelty Products Company, The, Berkeley, Calif. Toy coaster. No. 150,030; Dec. 27.

Nuro Silver Co., Burkeville, Va. Cleansing preparation for silverware, cut glass, &c. No. 150,031; Dec. 27.

Oden, Eugene R., San Francisco, Calif. Ready-mixed paint and liquid waterproof coatings of a paint-like nature. Nos. 150,032–3; Dec. 27.

Ohio Steel Foundry Company, The, Lima, Ohio. Metal castings. No. 150,034; Dec. 27.

Oliver, V., Inc., Philadelphia, Pa. Traffic-signals for vehicles. No. 150,035; Dec. 27.

Olts, James W., Oakland, Calif. Automobile and furniture polish. No. 150,036; Dec. 27.

Orange Surprise Syrup & Bottling Co., Morriston, N. J. Non-alcoholic, non-cereal, malt-less beverages and syrups for making same. No. 150,037; Dec. 27.

Oregon Growers Cooperative Assn., Salem, Oreg. Malt-less, non-alcoholic, non-cereal beverages. Nos. 150,038–9; Dec. 27.

Orium Company, St. Louis, Mo. Medical compound for relief of indigestion, constipation, &c. No. 150,040; Dec. 27.

Orium Company, The, St. Louis, Mo. Certain medicinal preparation. No. 150,041; Dec. 27.

Palleyeach, B. L., Brooklyn, N. Y. Certain medicinal preparation. No. 150,042; Dec. 27.

Palmer, Oscar E., Cleveland, Ohio. Ointment for eruptions of skin. No. 150,043; Dec. 27.

Patek Brothers, Milwaukee, Wis. Paint enamels. No. 150,044; Dec. 27.

Paterson, John, & Co., Ltd., Glasgow, Scotland. Liquid compound for toilet use. No. 150,045; Dec. 27.

Paterson, John, & Co. Ltd., Glasgow, Scotland. Liquid insecticides. No. 150,046; Dec. 27.

Patrick-Young Co., Richmond, Va. Hams, bacon, lard. No. 150,047; Dec. 27.

Pearl City Fruit Company, Limited, Honolulu, Hawaii. Non-intoxicating, malt-less, non-cereal beverage. No. 150,048; Dec. 27.

Penn Rivet Corporation, Philadelphia, Pa. Snap-fasteners. No. 150,049; Dec. 27.

Penn Rivet Corporation, Philadelphia, Pa. Safety-pins. No. 150,050; Dec. 27.

Penn Rivet Corporation, Philadelphia, Pa. Snap-fasteners. No. 150,051; Dec. 27.

Penn Rivet Corporation, Philadelphia, Pa. Safety-pins. No. 150,052; Dec. 27.

Petersen, Evelyn L., Oakland, Calif. Certain toilet preparation. No. 150,053; Dec. 27.

Pfeiffer, Charles E., Paris, France. Cigarette-papers and tubes for cigarettes. No. 150,054; Dec. 27.

Plant, Thomas G., Company, Boston, Mass. Men's, women's, and children's boots, shoes, and slippers, &c. No. 150,055; Dec. 27.

Plant, Ray C., Minneapolis, Minn. Electric-lighting fixture. No. 150,056; Dec. 27.

Plasterer, Purl C., Hamilton, Ohio, assignor to Darn E. Z. Laboratories. Patching-cement. No. 150,057; Dec. 27.

Poldi Steel Corporation of America, New York, N. Y. Steel billets, bars, forgings, and desks. No. 150,058; Dec. 27.

Pollard Machinery Company, Incorporated, Niagara Falls, N. Y. Stone-cutting machines. No. 150,059; Dec. 27.

Pollock, Grant E., Clinton, Ill. Coaster-sleds. No. 150,060; Dec. 27.

Porter, Mae C., Dallas, Tex. Hair-producer. No. 150,061; Dec. 27.

Premier Machinery Company, San Francisco, Calif. Fruit and vegetable peelers, washers, and slicers, exhaust-boxes, &c. No. 150,062; Dec. 27.

Prescott, J. L., Company, New York, N. Y. Laundry blue. No. 150,063; Dec. 27.

Preston, Horace G., Company, Detroit, Mich. Leather packings. No. 150,064; Dec. 27.

Priddy, George H., Dunbarton, W. Va. Water-deflecting dressing for windshields. No. 150,065; Dec. 27.

Print-Aid Company, Dayton, Ohio. Cleaner for removing dry and wet ink from printing equipment. No. 150,205; Dec. 27.

Prokos, George N., Washington, D. C. Non-alcoholic, non-cereal, malt-less beverage. No. 150,066; Dec. 27.

Pure Food Specialties Company, The, Toledo, Ohio. Oleomargarin. No. 150,067; Dec. 27.

Puritan Drug Mfg. Co., The, Columbus, Ohio. Wood-polish for furniture, floors, &c. No. 150,068; Dec. 27.

Queen City Bottling Company, The, Cincinnati, Ohio. Malt-less, non-alcoholic beverage. No. 150,069; Dec. 27.

Redhill Mfg. Co., Pittsburgh, Pa. Medicine for use in the treatment of indigestion and dyspepsia. No. 150,071; Dec. 27.

Read Machinery Co., York, Pa. Bakers' machinery—namely, cake-mixers, dough-mixers, &c. No. 150,070; Dec. 27.

Regal Manufacturing Co., Kansas City, Mo. Insect-powder. No. 150,072; Dec. 27.

Reis, Robert, & Co., New York, N. Y. Underwear, hosiery, &c. No. 150,073; Dec. 27.

Reisner, W. H., Manufacturing Company, The, Hagerstown, Md. Minnow-nets. No. 150,074; Dec. 27.

Richheimer, Isaac D., New York, N. Y. Coffee. No. 150,076; Dec. 27.

Richmond Brass Company, Inc., Richmond, Va. Brooms. No. 150,077; Dec. 27.

Rieber, Lewis J., Minneapolis, Minn. Cosmetics. Nos. 150,078–9; Dec. 27.

Robertson, Y. Otis, Boston, Mass. Non-alcoholic beverages and syrups for making same. No. 150,080; Dec. 27.

Rodriguez, Valentin, New York, N. Y. Spanish cigarettes. Nos. 150,081–2; Dec. 27.

Rodriguez, Valentin, New York, N. Y. Spanish cigarettes. No. 150,110; Dec. 27.

Rogers, Charles F. & Co. Inc., New York, N. Y., bed springs, mattresses, pillows. No. 150,083; Dec. 27.

Roper, Geo. D., Corporation, Rockford, Ill. Pumps and parts thereof. No. 150,084; Dec. 27.

Rothehill Vineyard Co., Pleasanton, Calif. Grape-juice. No. 150,085; Dec. 27.

Rudd, Josephine C., Richmond, Va. Compound for promoting the growth of the hair. No. 150,086; Dec. 27.

Rusk Oil Co. of Philadelphia, Pa., Philadelphia, Pa. Motor-lubricating oil. No. 150,087; Dec. 27.

Rusk Oil Co. of Philadelphia, Pa., Philadelphia, Pa. Lubricating greases. No. 150,088; Dec. 27.

Rusk Oil Co. of Philadelphia, Pa., Philadelphia, Pa. Motor oils. No. 150,089; Dec. 27.

Russell Manufacturing Co., The, Middletown, Conn. Drop-belting. No. 150,090; Dec. 27.

Ruth, Benjamin F., Reading, Pa. Non-alcoholic, non-cereal, maltless beverages. No. 150,091; Dec. 27.

Rutland, William H., Alpha, Okla. Medicinal preparations for the treatment of affections of the eye. No. 124,092; Dec. 27.

Sachs, I., & Sons, New York, N. Y. Silks in the piece. No. 150,093; Dec. 27.

Sailors and Lamb Company, The, Cleveland, Ohio. Prepared paints, varnishes, and paint enamels. No. 150,094; Dec. 27.

Sailors and Lamb Company, The, Cleveland, Ohio. Painters' supplies, prepared paints, varnishes, and paint enamels. No. 150,095; Dec. 27.

Samstag & Hilder Bros. Inc., New York, N. Y. Hair-nets. No. 150,096; Dec. 27.

San Antonio Drug Co., San Antonio, Tex. Baseballs. No. 150,097; Dec. 27.

Sandage, William L., Indianapolis, Ind. Bearings. No. 150,098; Dec. 27.

Sanitary Mattress Company, Minneapolis, Minn. Mattresses. No. 150,099; Dec. 27.

Sapitas Company Inc., The, Jersey City, N. J., and Brooklyn, N. Y. Disinfectants, insecticides, and deodorants. Nos. 150,100–1; Dec. 27.

Schaefer, Estate of Joseph J., Dayton, Ohio. Cigars. No. 150,102; Dec. 27.

Schmidt, Adam, Brewing Co., Norristown, Pa. Malt extract. No. 149,812; Dec. 27.

Schomer, Henry, Company, Chicago, Ill. Bed-springs. No. 150,103; Dec. 27.

Schuckl, Max, San Francisco, Calif. Canned fruits and vegetables. No. 150,103; Dec. 27.

Service Corp., Bakersfield, Calif. Non-alcoholic, non-cereal, maltless beverages. Nos. 150,104–5; Dec. 27.

Service Studios, Chicago, Ill. Theatrical scenery and window backgrounds. No. 150,106; Dec. 27.

Sherwin-Williams Company, The, Cleveland, Ohio. Paints, finishes, enamels, japans, varnishes, &c. No. 150,107; Dec. 27.

Sherwin-Williams Company, The, Cleveland, Ohio. Cold-water paints. No. 150,108; Dec. 27.

Sherwood Petroleum Co., Inc., Brooklyn, N. Y. Petrolatums, mineral jellies and oils for medicinal and pharmaceutical uses. No. 150,109; Dec. 27.

Shu Milk Products Corporation, Belleville, N. J. Shoe-polishes. No. 150,110; Dec. 27.

Sidenberg, G., & Co., New York, N. Y. Ruffings and plaitings for neckwear and trimmings. No. 150,111; Dec. 27.

Smith, C. D., Drug Co., St. Joseph, Mo. Certain chemical, medicinal, and toilet preparations. No. 150,112; Dec. 27.

Société Ricard Allenet & Cie., Melle, France. Furfuramid chemical product as well as all its compounds. No. 150,113; Dec. 27.

Society of Chemical Industry in Basle, Basel, Switzerland. Vitamin preparations, nerve-tonics, malt extracts, &c. Nos. 150,114–5; Dec. 27.

Society of Chemical Industry in Basle, Basel, Switzerland. Coal-tar colors. No. 150,116; Dec. 27.

Southern Spring Bed Co., Atlanta, Ga. Mattresses, iron and brass beds, and bed springs. No. 150,117; Dec. 27.

Spyrosoal Manufacturing Company, St. Louis, Mo. Piston-rings. No. 150,118; Dec. 27.

Stacy-Adams Company, Brockton, Mass. Boots and shoes. No. 150,119; Dec. 27.

Stahl, Harry, Seattle, Wash. Bread, biscuits, and cakes. No. 150,120; Dec. 27.

Standard Oil Company, San Francisco, Calif. Flushing-oil. No. 150,121; Dec. 27.

Standard Oil Company, Bayonne, N. J. A mineral oil primarily used in the preparation of cold-cream. No. 150,122; Dec. 27.

Standard Oil Company of New York, New York, N. Y. Petroleum products for lubricating, illuminating, heating, and power purposes. No. 150,123; Dec. 27.

State of New York, Saratoga Springs, N. Y. Natural mineral water. No. 150,124; Dec. 27.

Stattler Waterproofing Products Co. Inc., Wilmington, Del., and New York, N. Y. Waterproof liquid for canvas fabrics. No. 150,125; Dec. 27.

Stearns & Foster Company, The, Cincinnati, Ohio. Cotton batting. Nos. 150,126–32; Dec. 27.

Steck, Jos. S., Knoxville, Tenn. Tractions trolley passenger vehicles. Nos. 150,133–42; Dec. 27.

Stonewall Corporation, The, New York, N. Y. Tan. No. 150,143; Dec. 27.

Straus, Isaac & Straus, Inc., Baltimore, Md. Sanitary pants for mother and children's blouses. No. 150,144; Dec. 27.

Sullivan, B. G., Estate, Manchester, N. H. Cigars, cigarettes, and manufactured tobacco. No. 150,307; Dec. 27.

Sweet, Tr., Root Beer, Inc., Boston, Mass. No. 150,136; Dec. 27.

Szabo, Alex, New York, N. Y. Liniment. No. 150,137; Dec. 27.

Texas Company, Houston, Tex., and New York, N. Y. Turbentine substitute. No. 150,138; Dec. 27.

Thum, Charles H., Los Angeles, Calif. Bottled cigarettes. No. 150,139; Dec. 27.

Thompson, Henry O., & Son Company, The, New Haven, Conn. Hooks and Hasps. No. 150,140; Dec. 27.

Thorp Traveler Mfg. Co., The, Denver, Colo. Binding and armbands. No. 150,141; Dec. 27.

Tuck Manufacturing Co., Chicago, Ill. Piano benches. No. 150,142; Dec. 27.

Tunney, Sinclair, New York, N. Y. Golf-balls. No. 150,144; Dec. 27.

Tri-State Milk Products Co., Galena, Ill. Evaporated milk. No. 150,145; Dec. 27.

Tyer, Joseph P., & Fant, Minn. Malt syrup used as a beverage. No. 150,145; Dec. 27.

Union Twist Drill Company, Athol and Mansfield, Mass. Cutters and certain thread-cutting tools. No. 150,146; Dec. 27.

United Dairy Association of Washington, Seattle, Wash. Evaporated milk, ice-cream, and powdered milk. No. 150,147; Dec. 27.

U. S. Industrial Alcohol Co., New York, N. Y. Ethyl alcohol. No. 150,148; Dec. 27.

Valdosta Hi-Lert Co., Valdosta, Ga. Pine-oil prepared and colored for use as a wood stain and preservative. No. 150,149; Dec. 27.

Van Dyk and Reeves, Brooklyn, N. Y. Fresh dates. No. 150,151. Dec. 27.

Vantex Chemical Company, Memphis, Tenn., and New York, N. Y. Skin-ointment. No. 150,152; Dec. 27.

Vino Medical Co., Inc., New York, N. Y. Tonic for diabetics. No. 150,153; Dec. 27.

Visalia Coffee Company, Jackson, Tenn. Coffee. No. 150,154; Dec. 27.

Vulcan Motor Axle Corporation, Detroit, Mich. Axles for pleasure automobiles and automobile trucks. No. 150,155; Dec. 27.

Wabash Basket Company, Marion, Swayzee, Converse, Bunker Hill, and Roanoke, Ind. Various kinds of baskets. No. 150,157; Dec. 27.

Wade, L. B., Co., Boston and Lynn, Mass. Polish for use on automobiles, furniture, &c. No. 150,158; Dec. 27.

Wagner's W. S., Sons Co., Cincinnati, Ohio. Non-alcoholic maltless minted fruit beverage. No. 150,159; Dec. 27.

Waldeck, Charles Alfred, Company, Inc., The, Baltimore, Md. Certain medical preparations. No. 150,160; Dec. 27.

Wallace, R. & Sons Mfg. Co., The, Wallingford, Conn. Certain German-silver flat-ware. No. 150,161; Dec. 27.

Wandell Chocolate Company, Inc., Baltimore, Md. Candy. No. 150,162; Dec. 27.

Ward Baking Company, New York, N. Y. Bread. No. 150,163; Dec. 27.

Ward Baking Company, New York, N. Y. Cake. No. 150,164; Dec. 27.

Waxed Products Company, Inc., Brooklyn, N. Y. Waxed paper. No. 150,165; Dec. 27.

Wells Flour Milling Company, Wells, Minn. Wheat-flour. No. 150,166; Dec. 27.

Western Soap Company, Spokane, Wash. Laundry soap. No. 150,167; Dec. 27.

Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Certain engines and machinery. No. 150,168; Dec. 27.

White, James F., & Co., Inc., New York, N. Y. Cotton piece goods. Nos. 150,169–71; Dec. 27.

Whitfield, Joseph C., Palisades Park, N. J. Natural gas. No. 150,172; Dec. 27.

Whiting Paper Company, Holyoke, Mass. Index and bristol boards. No. 150,173; Dec. 27.

Wichita Flour Mills Co., The, Wichita, Kans. Wheat-flour. No. 150,174; Dec. 27.

Wickwire Spencer Steel Corporation, Worcester, Mass. Certain household tools. No. 150,175; Dec. 27.

Wiedemann, Geo., Company, The, Newport, Ky. Non-beverage grain-alcohol. No. 150,176; Dec. 27.

Wilde, Albert, New York, N. Y. Malt extracts. No. 150,177; Dec. 27.

Wildroot Co., Inc., Buffalo, N. Y. Shampoo. No. 150,178; Dec. 27.

Wile, Julius, Sons & Co., New York, N. Y. Elastic webbing. No. 150,179; Dec. 27.

Wilson, Frederick S., Chicago, Ill. Liquid preparation for the reproduction and preservation of typewriter platens. No. 150,180; Dec. 27.

Wilson, John, Sacramento, Calif. Soft-soap cleanser. No. 150,181; Dec. 27.

Winthrop Chemical Company, Inc., New York, N. Y. Preparations for certain diseases. No. 150,182; Dec. 27.

Witmark, Warren F., Philadelphia, Pa. Dry and ready-mixed paints. No. 150,183; Dec. 27.

Wolfe-Yarrow Co., Omaha, Nebr. Spirits of camphor. No. 150,184; Dec. 27.

Wolferman, Fred, Good Things to Eat Co., Kansas City, Mo. Coffee. No. 150,185; Dec. 27.

Woodley, Alvin C., Binghamton, N. Y. Nerve-tonic. No. 150,186; Dec. 27.

Worden, W. H., Co., San Francisco, Calif. Wire rope for general purposes. No. 150,187; Dec. 27.

York Drug Store, York, S. C. Certain medicinal preparation. No. 150,188; Dec. 27.

Yuengling, D. G., & Son, Inc., Pottsville, Pa. Non-intoxicating cereal malt beverage. No. 150,189; Dec. 27.

Zuercher, Chas., Brodhead, Wis. Cheese. No. 150,190; Dec. 27.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Allen, M., & Sons, Inc., El Paso, Tex. "Pan-Ola." (For Wheat Flour.) No. 23,835; Dec. 27.

American Stove Company, St. Louis, Mo. "Lorain." (For an Appliance or Attachment for Gas-Stoves.) No. 23,837; Dec. 27.

Barcalo Manufacturing Company, Buffalo, N. Y. "Barcalo Matt-Rest." (For Mattresses.) No. 23,838; Dec. 27.

Bardos, Coleman, Jr., New York, N. Y. "Gal-Jo-Ben." (For an Antiseptic and Astringent Remedy.) No. 23,839; Dec. 27.

Bauer & Black, Chicago, Ill. "B & B Baby Talc." (For Talcum Powder.) No. 23,840; Dec. 27.

Bertini, Henry L., Brooklyn, N. Y. "B. B. B. Bertini's Bird Blend." (For a Food Tonic for Cage-Birds.) No. 23,841; Dec. 27.

Brown & Haley, Tacoma, Wash. "Totem Poles." (For Cartons or Boxes of Candies.) No. 23,842; Dec. 27.

Davis, Israel, Lawrence, Mass. "Be-Ta." (For Food Beverages.) No. 23 843; Dec. 27.

Di Salvo, G., & A., Paterson, Brooklyn, N. Y. "Egg Plants." (For Packages Containing Egg-Plant.) No. 23,844; Dec. 27.

Export Chemical Company, The, Canton, Ohio. "Liquid Cedar." (For a Liquid-Oil Wash or Polish Made Chiefly of Oil of Cedar.) No. 23,845; Dec. 27.

First National Pharmacy, Lehighton, Pa. "Royal Purple Pennyroyal Female Pills." (For Boxes Containing a Medicine for Treatment of Delayed Menstruation, for Painful Menses, Relieving Burning and Chafing.) No. 23,846; Dec. 27.

Fritsch & Son, Lancaster, Pa. "Beech Nut Cigar." (For Beech-Nut Cigars.) No. 23,847; Dec. 27.

Gessel, Christoph J., Mansfield, Ohio. "Egg Puffets." (For Breakfast Food.) No. 23,848; Dec. 27.

Goodwillie, D. M., Company, Chicago, Ill. "The Box That Stands the Knocks." (For Wooden Boxes.) No. 23,849; Dec. 27.

Green and Green Company, The, Cincinnati, Ohio. "A Baked Rarebit." (For Cheese-Crackers.) No. 23,850; Dec. 27.

Grondohl, Joseph, New York, N. Y. "Ariel Standard." (For Golf-Balls.) No. 23,851; Dec. 27.

Hill, Robert, Buffalo, N. Y. "Wink the Drink." (For Non-Alcoholic Maltless Beverages.) No. 23,852; Dec. 27.

Losco, Anthony, Newark, N. J. "X X X Brand." (For Malt Extract.) No. 23,853; Dec. 27.

Lucati, Alfred, New York, N. Y. "The Salvador Great Liquid for Cleaning Floors SD8." (For Bottles or Demijohns of the Salvador SD8.) No. 23,854; Dec. 27.

Lucati, Alfred, New York, N. Y. "The Salvador Renowned Liquid for Washing Clothes SD3." (For Bottles or Demijohns of the Salvador SD3.) No. 23,855; Dec. 27.

Nuss Confectionery Co., The, Cincinnati, Ohio. "Milk-Maid Creams." (For Cream Confections.) No. 23,856; Dec. 27.

Quintaline Co. of Am., Inc., The, Buffalo, N. Y. "Quintaline." (For an Ointment for Congested and Inflammatory Conditions.) No. 23,857; Dec. 27.

Star Merchandise Company, New York, N. Y. "Lasher's Moose Yarns Linen Thread." (For Linen Threads for Hand and Machine Sewing and Crocheting Purposes.) No. 23,858; Dec. 27.

Steiner, Emil, Browley, Calif. "Brawley Beauty Brand." (For Crates and Boxes Containing Grapefruit.) No. 23,859; Dec. 27.

Urich Cigar Co., The, Milwaukee, Wis. "Defectos Perfectos." (For Cigar-Boxes Containing Cigars.) No. 23,860; Dec. 27.

Valdes, Louis, Tampa, Fla. "Dr. Louis Valdes's Famous Remedies, French Discovery." (For Eight-Ounce Bottle Containing a Tonic for the Cure of Dyspepsia, Indigestion, Biliousness, Malaria, Boils, Liver or Kidney Troubles, Constipation, Rheumatism, Eczema, and All Blood Disorders.) No. 23,861; Dec. 27.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Baker Gun Co., Norwich, Conn. "Baker Gun." (For Advertising Purposes for Guns.) No. 5,901; Dec. 27.

Harris, A. W., Oil Co., Providence, R. I. "America's Leading Lubricants." (For Advertising Purposes for Lubricating Oils and Greases.) No. 5,902; Dec. 27.

Palmolive Company, The, Milwaukee, Wis. "Rivals in Beauty." (For Advertising Purposes for Palmolive Soap.) No. 5,903; Dec. 27.

Pangborn Corporation, Hagerstown, Md. "All-Ways and Always." (For Advertising Purposes for Sand-Blast and Allied Equipment.) No. 5,904; Dec. 27.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Adam, Orris, Mechanicsburg, Pa. Rubber compound in the nature of removable coating for tires. No. 151,923; Dec. 27.

Altorfer Bros. Company, East Peoria, Ill. Ironing-machines. No. 144,659; Dec. 27.

American Automobile Association, Washington, D. C., and New York, N. Y. Printed maps, pamphlets published from time to time, &c. Nos. 152,360–1; Dec. 27.

American Finance & Commerce Company, San Francisco, Calif. Wheat-flour. No. 148,108; Dec. 27.

American Tripoli Company, Seneca, Mo. Filters and filter-stone made of tripoli. No. 150,126; Dec. 27.

Apex Electric Mfg. Company, Chicago, Ill. Windshield-cleaners. No. 151,503; Dec. 27.

Asher Manufacturing Company, Irvington, N. J. Laundry machinery. No. 152,977; Dec. 27.

Ashley Railway Safety Tie and Construction Corporation, The, New York, N. Y. Reinforced-concrete ties for railways. No. 135,124; Dec. 27.

Atlanta Barbers' Supply Co., Atlanta, Ga. Hair-tonic. No. 143,906; Dec. 27.

Atlantic Stamping Company, Rochester, N. Y. Wash-tubs and washboilers. No. 155,038; Dec. 27.

Austin, Nichols & Co., Inc., Richmond, Va. Automobile tires and tubes of rubber and a combination of fabric and rubber. No. 153,865; Dec. 27.

Balfeat Mfg. Co., The, Mansfield, Ohio. Mattresses. No. 149,626; Dec. 27.

Barnsdall Refining Company, Tulsa, Okla. Lubricating-oil. No. 154,206; Dec. 27.

Bartlett Somers Company, Lynn, Mass. Ladies' leather boots, shoes, and slippers. No. 140,438; Dec. 27.

Bauer & Black, Chicago, Ill. Adhesive tape. No. 155,085; Dec. 27.

Bayuk Bros. Incorporation, Baltimore, Md., and Philadelphia, Pa. Cigars, cigarettes, chewing and smoking tobacco. No. 152,200; Dec. 27.

Beech-Nut Packing Company, Canajoharie, N. Y. Dentifrice. No. 151,530; Dec. 27.

Beech-Nut Packing Company, Canajoharie, N. Y. Cocoa, sugar, cereal breakfast food, wheat-flour, &c. No. 151,531; Dec. 27.

Bent, G. H., Company, Milton, Mass. Cookies, crackers, cakes, and biscuits. No. 149,054; Dec. 27.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Bagemann, Dr. Friedrich, G. m. b. H., Quedlinburg, Prussia, Germany. Sweet cordial and beet seed. No. 146,820; Dec. 27.

Bernard Schwartz & Sons, Detroit, Mich. Cigars. No. 147,887; Dec. 27.

Bertels, W. G., & Son Co., Wilkes-Barre, Pa. Washboilers. No. 135,425; Dec. 27.

Boston Food Products Co., East Boston, Mass. Canned or packaged foods. No. 131,517; Dec. 27.

Boston Last Co., Boston, Mass. Embossing-leaf. No. 112,810; Dec. 27.

Brilliantone Spool Needle Co. of America, Inc., New York, N. Y. Tubular-eustrine needles. No. 150,214; Dec. 27.

Brooks & Co. Inc., Boston, Mass. Shoe parts—namely, rubber heels. No. 152,946; Dec. 27.

Buffalo Forge Company, Buffalo, N. Y. Air and gas blowers, liquid blowers, blow-pipes. No. 143,589; Dec. 27.

Campbell Baking Company, Kansas City, Mo. Cakes. No. 144,947; Dec. 27.

Carroll, Charles B., Gary, Ind. Furniture-pads. No. 109,447; Dec. 27.

Cassimere, H. S., Jr., New York, N. Y. Cleansing fluid for silk, wool, cotton, and other textile fabrics. No. 153,237; Dec. 27.

Charles Wielage Stores Inc., The, Brooklyn, N. Y. Kitchen-cabinets. No. 152,709; Dec. 27.

Chatham, Inc., New York, N. Y. Pyrophoric lighters. No. 141,743; Dec. 27.

Clayton-Wright, Ltd., Birmingham, England. Electric-current-operated warning-bells for vehicles, and electric-lighting system for motor-vehicles. No. 149,756; Dec. 27.

Cleveland, Reginald M., New York, N. Y. Thoroughbred dogs. No. 152,444; Dec. 27.

Colloid Laboratories, Inc., New York, N. Y. Metal-polishing material. No. 152,915; Dec. 27.

Continental Supply Company, The, St. Louis, Mo. Castor-oil for lubricating purposes. No. 153,941; Dec. 27.

Cook, Arthur W., Ocean Grove, N. J. Preparations for the relief of sunburn. No. 151,824; Dec. 27.

Crown Supply Company, Inc., New York, N. Y. Hair-tonic and dandruff remedies. No. 148,871; Dec. 27.

Crupain, Morris, New York, N. Y. Powder puffs. No. 150,306; Dec. 27.

Curry, John, Fall River, Mass. Chocolate-hamidors. No. 152,839; Dec. 27.

Curtiss Aeroplane and Motor Corporation, Buffalo and Garden City, N. Y. Airplanes. No. 153,906; Dec. 27.

Cushman-Hoffe Co., Auburn, Me. Rubber soles attached to boots and shoes with canvas uppers. No. 146,515; Dec. 27.

Dearborn Company, The, Chicago, Ill. Ironing-boards. No. 144,133; Dec. 27.

Detroit White Lead Works, Detroit, Mich. Soaps, metal-polish, leather-dressing, &c. No. 148,218; Dec. 27.

Diamond Press, The, New York, N. Y. Exclusively for printed paper stationery. No. 147,911; Dec. 27.

Dover Manufacturing Company, The, Dover, Ohio. Stove-heated sadirons. No. 145,590; Dec. 27.

Duttenhofer-Stevens Co., The, Cincinnati, Ohio. Women's low and high shoes of leather and cloth. No. 153,549; Dec. 27.

Dunhill, Alfred, London, England. Tobacco, manufactured or unmanufactured cigars and cigarettes. No. 153,080; Dec. 27.

Dunn, John, Son & Co., New York, N. Y. Gas and oil water-heaters and lanterns, &c. No. 140,875; Dec. 27.

Dunn Pen Company Inc., New York, N. Y. Fountain-pens. No. 147,606; Dec. 27.

Eagle Lock Co., Terryville, Conn. Padlocks. Nos. 139,882–3; Dec. 27.

Eagle Lock Co., Terryville, Conn. Wood-screws. No. 152,421; Dec. 27.

Eastern Oil Refining Company, Buffalo, N. Y. Gasolene and fuel-oils. No. 154,486; Dec. 27.

Economy Oil Company, Chicago, Ill. Lubricating-oils. No. 153,344; Dec. 27.

Eisenberg, Ralph M., New York, N. Y. Electrotypes. No. 136,720; Dec. 27.

Emery Candle Company, The, Cincinnati, Ohio. Lubricating-oil. No. 142,267; Dec. 27.

Fair, The, Chicago, Ill. Cigars. No. 149,219; Dec. 27.

Federal Bridge and Structural Co., Waukesha, Wis. Metal window-sashes. No. 153,656; Dec. 27.

Fisher, Katherine, Chicago, Ill. Dolls. No. 139,670; Dec. 27.

Foster Screen Co., Inc., The, Newark, N. J. Window-screens. No. 154,796; Dec. 27.

Fraim-Slaymaker Hardware Company, Lancaster, Pa. Padlocks, night-locks, keys, and parts thereof, &c. No. 151,664; Dec. 27.

Fraser Tablet Company, The, Brooklyn, N. Y. Nursers. No. 133,[illegible]; Dec. 27.

Gebrüder, Bühler, Uzwil, Switzerland. Pressure and suction tube filters. No. 151,820; Dec. 27.

General Cigar Co. Inc., New York, N. Y. Cigars. No. 148,327; Dec. 27.

General Tire and Rubber Company, The, Akron, Ohio. Tire-retreads of rubber and fabric in the piece. No. 144,658; Dec. 27.

Gibbon, C. S., Co., Philadelphia, Pa. Women's leather and combination shoes. No. 149,545; Dec. 27.

Gotham Shoe Mfg. Co., Inc., Binghamton, N. Y. Leather shoes. No. 150,544; Dec. 27.

Grant Leather Corporation, Kingsport, Tenn. Leather belting. No. 152,846; Dec. 27.

Grey, C. M., Mfg. Co., East Orange, N. J. Automobile locks. No. 146,923; Dec. 27.

Grow, Walter C., Salt Lake City, Utah. Cleaning compound for metal, wood, &c. No. 148,126; Dec. 27.

Habicht, Oscar Ed., Baltimore, Md. Polish for automobiles, pianos, furniture, &c. No. 154,054; Dec. 27.

Hadfields Limited, Sheffield, England. Fire-fenders, fire-guards. No. 146,282; Dec. 27.

Haffner Brothers Company, The, Cincinnati, Ohio. Harness-leather and sole-leather. No. 153,214; Dec. 27.

Hall-Chevrier Co., The, Minneapolis, Minn. Malt extract. No. 153,217; Dec. 27.

Hallam, Joseph Arlington, Mass. Lubricating-greases. No. 152,262; Dec. 27.

Halliwell & Patten Publishing Co., Inc., Chicago, Ill. Periodic publication. No. 143,128; Dec. 27.

Harper-Lancaster Manufacturing Co., St. Louis, Mo. Coal and wood heaters and cooking-stoves, ranges, and heating-furnaces. No. 144,285; Dec. 27.

Helmer, Jos. A., Portland, Oreg. Cigars. No. 148,510; Dec. 27.

Henderson, Peter & Co., New York, N. Y. Agricultural and horticultural seeds. No. 151,906; Dec. 27.

Herz, Alexander, New York, N. Y. Merchandise-envelops. No. 154,092; Dec. 27.

Hess, Jack W., Clinton, Wis. Toy car. No. 150,309; Dec. 27.

Hill and La Croix Company, The, Cranston, R. I. Narrow braids, elastic braids, and shoe laces. No. 154,822; Dec. 27.

Hinsdale Manufacturing Company of Indiana, Washington, Ind. Trousers, skirt, coat, gown, and suit hangers. No. 141,405; Dec. 27.

Hoe Corporation, Poughkeepsie, N. Y. Folding pressing-boards. No. 148,784; Dec. 27.

Hoffmann, E. M., Co., The, Camden, N. J. Metal nickel, and stove polishes, &c. No. 149,134; Dec. 27.

Howard, J. W., & Son, Louisville, Miss. Hair-dressing. No. 152,[illegible]; Dec. 27.

Illinois Watch Case Company, Elgin, Ill. Watch-movements. No. 149,252; Dec. 27.

Imperial Chemical Mfg. Co., New York, N. Y. Powdered dentifrices, shampoos, face-creams, &c. No. 149,567; Dec. 27.

Innis, Speiden & Co. Inc., New York, N. Y. Soap and laundry soap. No. 154,274; Dec. 27.

Interlock Hardware Company Inc., The, New Haven, Conn. Automobile luggage and tire carriers. No. 144,621; Dec. 27.

International Bedding Co., Baltimore, Md. Felt mattresses. Nos. 134,198–9; Dec. 27.

Interchangeable Wall Case Co., The, Detroit, Mich. Store wall-cases, show-cases, and interchangeable shelving. No. 145,468; Dec. 27.

Jaffe, Harry, Fitchburg, Mass. Non-alcoholic, non-cereal meatless beverage and syrup for making same. No. 148,441; Dec. 27.

Jamaica, Charles F., Boston, Mass. Chemically-treated cloth for polishing metals, hard rubber, and glass. No. 151,990; Dec. 27.

Johnson, John O., Chicago, Ill. Bird-gravel. No. 148,002; Dec. 27.

Johnson, Walter L., Endicott, N. Y. Glass milk-bottles. No. 153,161; Dec. 27.

Kelley, Henry C., Company, New York, N. Y. Cords, twine, ropes, lines. No. 139,979; Dec. 27.

Kersten, Samuel, Chicago, Ill. Faucets. No. 153,353; Dec. 27.

Klinn Tire Products Co., Chicago, Ill. Roof-cement. No. 153,462; Dec. 27.

Kranz & Co., Inc., Baltimore, Md. Cigars. No. 150,071; Dec. 27.

Leech Tire Patch Company, Cincinnati, Ohio. Automobile-tire patches. No. 126,490; Dec. 27.

Leglers, Chas. E., Co., Inc., New York, N. Y. External body-tonic for use after bathing, and shaving, &c. No. 151,680; Dec. 27.

Lucatti, Alfred, New York, N. Y. Disinfectant. No. 142,335; Dec. 27.

Marathon Tire & Rubber Company, The, Cuyahoga Falls, Ohio. Belt-buckles not of precious metals. Nos. 148,224; Dec. 27.

Marcus, Forscher & Co., New York, N. Y. Sole-leather, upper-leather, hides, and skins. No. 153,558; Dec. 27.

Mashkes, Morris, Baltimore, Md. Cough-balsam, hair-stain for restoring color to gray and faded hair, and blood remedy. No. 145,279; Dec. 27.

McKee Refrigerator Company, Brooklyn, N. Y. Refrigerators. No. 149,231; Dec. 27.

Midwest Steel & Supply Company Inc., New York, N. Y. Filters and parts thereof. No. 154,611; Dec. 27.

Midwest Steel & Supply Company Inc., New York, N. Y. Stringers, anchor-rails, metal sections for connecting metal stringers, &c. No. 154,609; Dec. 27.

Marshall Oil Company of Iowa, Marshalltown, Iowa. Belt-dressing. No. 151,553; Dec. 27.

Marsahl, William H., Jersey City, N. J. Laundry bleaching and disinfecting fluid. No. 152,713; Dec. 27.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Nalpon Chemical Company, Seattle, Wash. Medicinal preparation for the treatment of rheumatism, sciatica, &c. No. 146,729; Dec. 27.

National Washboard Company, Chicago, Ill., and Saginaw, Mich. Washboards. No. 152,631; Dec. 27.

National Washboard Company, Chicago, Ill., Saginaw, Mich., and Memphis, Tenn. Washboards. Nos. 152,632–3; Dec. 27.

National Washboard Company, Chicago, Ill.; Saginaw, Mich., and Memphis, Tenn. Washboards. Nos. 152,635–6; Dec. 27.

National Washboard Company, Chicago, Ill.; Saginaw, Mich., and Memphis, Tenn. Washboards. Nos. 152,637–9; Dec. 27.

National Washboard Company, Chicago, Ill.; Saginaw, Mich., and Memphis, Tenn. Washboards. Nos. 153,643–7; Dec. 27.

New Process Multicastings Company. (See Wood, John R., assignor.)

Nies, Diebold B., St. Louis, Mo. Non-alcoholic, non-cereal, malt-less beverage. No. 145,409; Dec. 27.

Noco Petroleum Company, New York, N. Y. Crude oil or petroleum. No. 139,900; Dec. 27.

Noco Petroleum Company, New York, N. Y. Kerosene, gasolene, naphthalene, benzin. No. 139,901; Dec. 27.

Northway Motors Corporation, Natick, Mass. Automobiles and motor-trucks. No. 148,947; Dec. 27.

Norquist, Clyde L., Jamestown, N. Y. Furniture. No. 148,294; Dec. 27.

Nott-Atwater Co., Spokane, Wash. Lubricating-oils. No. 154,930; Dec. 27.

Novelty Products Company, The, Berkeley, Calif. Wooden clothespins. No. 141,795; Dec. 27.

Novelty Shoe Company, Chicago, Ill. Shoes made of leather, rubber, fabric, and a combination of the same. No. 149,925; Dec. 27.

Ohio Grease Co., The, Loudonville, Ohio. Lubricating oils and greases. No. 154,884; Dec. 27.

Ohio Grease Co., The, Loudonville, Ohio. Lubricating-oils. No. 154,885; Dec. 27.

Oklahoma City Mill and Elev. Co., Oklahoma, Okla. Wheat-flour. No. 149,513; Dec. 27.

Overton, Anthony, Chicago, Ill. Semisolid dressing for leather. No. 148,235; Dec. 27.

Orenstein Trunk Company, Newark, N. J. Trunks. No. 154,282; Dec. 27.

Paine & Nixon Co., Duluth, Minn. Dry, ready-mixed, and paste paints, paint-oils, varnishes, &c. No. 153,518; Dec. 27.

Pan-American Cigar Manufacturing Co., Dover, Del., and Washington, D. C. Cigars. No. 136,481; Dec. 27.

Patuxent Guano Company, Baltimore, Md. Fertilizers. No. 151,520; Dec. 27.

Pilgrim, Lewis G., Detroit, Mich. Automobile and furniture polish. No. 153,406; Dec. 27.

Pinkus, Flora W., New York, N. Y. Cigarettes. No. 144,542; Dec. 27.

Railton, B. A., Company, Chicago, Ill. Canned vegetables and fruits, preserved fruits, jellies, cereals, &c. No. 150,706; Dec. 27.

Reed & Carnrick, Jersey City, N. J. Prepared food for infants and invalids. No. 144,641; Dec. 27.

Resolute Manufacturing Company, Chicago, Ill. Refrigerating systems. No. 150,372; Dec. 27.

Rice, A. H., Company, Pittsfield, Mass. Threads and yarns of silk and artificial silk. No. 154,285; Dec. 27.

Robinson, Lorena W., Dallas, Tex. Truck-bodies. No. 127,871; Dec. 27.

Robinson-Rodgers Co. Inc., Newark, N. J. Bedding, bedsteads, upholstery, &c. No. 134,525; Dec. 27.

Rosenthal, Manrice, San Francisco, Calif. Cigars. No. 145,083; Dec. 27.

Sail-Me Co., Evanston, Ill. Toy airplanes. No. 155,033; Dec. 27.

San Telmo Cigar Manufacturing Company, Detroit, Mich. Cigars. No. 143,225; Dec. 27.

Sanitary Products Corporation of America, Philadelphia, Pa. Paper luncheon sets. No. 148,412; Dec. 27.

Schmidt, C., Company, The, Cincinnati, Ohio. Filters and refrigerators. No. 148,461; Dec. 27.

Schoellkopf Co., The, Dallas, Tex. Harness, saddles, bridles, &c. No. 151,103; Dec. 27.

Sherwin-Williams Company, The, Cleveland, Ohio. Paints in liquid, semipaste, and paste form. No. 145,130; Dec. 27.

Sherwood, J. M., Manufacturing Corporation, New York, N. Y. Mops designed to be used for culinary and other household purposes. No. 147,741; Dec. 27.

Sholander, Canon C., Atchison, Kans. Toy molding sets. No. 154,240; Dec. 27.

Silumite Products Corporation, Baltimore, Md., and Morton, Pa. Paints in ready-mixed, dry, or paste form. No. 153,572; Dec. 27.

Society of Chemical Industry in Basle, Basel, Switzerland. Malt extract. No. 149,936; Dec. 27.

Spencer, George C., South Bend, Ind. Perfumes. No. 152,770; Dec. 27.

Springfield Seed Co., Springfield, Mo. Farm seed. No. 154,241; Dec. 27.

Stanley Works, The, New Britain, Conn. Butts. No. 152,519; Dec. 27.

Steinfeld Bros., New York, N. Y. Ice-cream freezers. No. 149,033; Dec. 27.

Tetslaff, Ben A., Chicago, Ill. Hose-clamps. No. 151,566; Dec. 27.

Texas Company, The, Houston, Tex., and New York, N. Y. Cylinder-oils. No. 154,465; Dec. 27.

Toops, Noble C., Chicago, Ill. Shaving-brushes. No. 147,537; Dec. 27.

Traylor Engineering & Manufacturing Company, Allentown, Pa. Motor trucks and trailers. No. 141,139; Dec. 27.

Trinity Bag & Paper Co. Inc., New York, N. Y. Paper for wrapping purposes. No. 148,566; Dec. 27.

United Chemical Companies, Kansas City, Mo. Powdered preparation for cleaning toilet-bowls. No. 152,660; Dec. 27.

United Hosiery Mills Corporation, Chattanooga, Tenn. Stocking dolls. No. 153,898; Dec. 27.

United States Playing Card Company, Cincinnati, Ohio. Playing-cards. Nos. 151,116–18; Dec. 27.

United States Playing Card Company, The, Cincinnati, Ohio. Playing-cards. Nos. 151,120–21; Dec. 27.

United States Playing Card Company, The, Cincinnati, Ohio. Playing-cards. No. 151,123; Dec. 27.

United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Boots and shoes composed of rubber and fabric. No. 153,160; Dec. 27.

United States Sales Corporation, St. Louis, Mo. Sheet-rubber patches. No. 149,198; Dec. 27.

Upson-Walton Company of New York, The, New York, N. Y. Wire-rope cables used in well-drilling. No. 144,947; Dec. 27.

Velrose Manufacturing Company, Andover, N. Y. Toilet preparations, and more particularly face-lotion. No. 146,941; Dec. 27.

Victor Manufacturing and Gasket Company, Chicago, Ill. Receptacles for gaskets. No. 155,527; Dec. 27.

Vogt, Henry Machine Co. Inc., Louisville, Ky. Ice-making and refrigerating machines. No. 146,940; Dec. 27.

Wanner, George D., Dayton, Ohio. Kites. No. 153,575; Dec. 27.

Westfield Manufacturing Company, Westfield, Mass. Bicycles and parts thereof. No. 152,491; Dec. 27.

Western Lumber & Pole Company, Spokane, Wash. Cedar telephone, telegraph, and transmission-line poles. No. 153,905; Dec. 27.

Whiting Paper Company, Holyoke, Mass. Writing-paper and mailing-envelops. No. 114,983; Dec. 27.

Whitmore, William H., Cleveland, Ohio. Preparation for cleaning, preserving, &c., varnished surfaces. No. 151,028; Dec. 27.

Wincroft Stove Works, Middletown, Pa. Gas and coal stoves. No. 146,942; Dec. 27.

Wing, Russell T., St. Cloud, Minn. Headlight-lenses. No. 153,423; Dec. 27.

Wood, John R., Irvington, assignor to New Process Multicastings Company, Newark, N. J. Refrigerators. No. 138,730; Dec. 27.

Wright, S. P., Washington, D. C. Ginger-ale. No. 150,717; Dec. 27.

Yard-O-Meter Corporation, St. Louis, Mo. Devices for computing and measuring fabrics. No. 128,720; Dec. 27.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 27TH DAY OF DECEMBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Acid for reducing agents, Purification of mahic. G. C. Bailey. No. 1,401,337; Dec. 27.
Acid phosphate or superphosphate, Manufacturing. W. T. Doyle. No. 1,401,524; Dec. 27.
Adjusting-table. J. G. Miller. No. 1,401,427; Dec. 27.
Air-brake-controlling apparatus. A. St. John. (Reissue.) No. 14,356; Dec. 27.
Air-cushion, Suspension. G. E. Matthews. No. 1,401,420; Dec. 27.
Aircraft propeller. J. D. Hill. No. 1,401,537; Dec. 27.
Airplane, Hovering. A. F. Zahm. No. 1,401,934; Dec. 27.
Airship, Weight-controlled. G. A. Chaddock. No. 1,401,461; Dec. 27.
Alunite, Treating. M. Shadid. No. 1,401,741; Dec. 27.
Apparel, Clasping device for articles of. G. A. Renault. No. 1,401,558; Dec. 27.
Armrest, Support for driver's. A. C. Sargent. No. 1,401,366; Dec. 27.
Arbor. See R. L. Rubs. No. 1,401,281; Dec. 27.
Asbestos table-mat. G. R. Healey. No. 1,401,833; Dec. 27.
Ash-receiver. E. Schroeder. No. 1,401,282; Dec. 27.
Ash-sifting device. F. H. Lehman. No. 1,401,443; Dec. 27.
Auger, Portable. O. W. Heisel. No. 1,401,780; Dec. 27.
Autocar-drive Auxiliary. E. J. Gould and W. Pressler. No. 1,401,900; Dec. 27.
Automatic coupling. W. W. Phillips. No. 1,401,480; Dec. 27.
Auto-lift. T. J. Cordes. No. 1,401,463; Dec. 27.
Auto safety-bumper. L. O. Kalman and A. S. Shapiro. No. 1,401,410; Dec. 27.
Auto-vehicle, Direction indicator for. F. H. Radeleff. No. 1,401,187; Dec. 27.
Automobile body, Convertible. F. Mitchell. No. 1,401,177; Dec. 27.
Auton bile-bumper. W. P. Limacher. (Reissue.) No. 14,355; Dec. 27.
Automobile door-panels, Making. H. J. Haon. No. 1,401,661; Dec. 27.
Automobile lifting mechanism. C. W. Bowers. No. 1,401,490; Dec. 27.
Automobile steering mechanism, Lock for. J. Marsel. No. 1,401,173; Dec. 27.
Automobile-theft-protection device. J. A. Ward. No. 1,401,839; Dec. 27.
Automobile top closure. J. A. Deab. No. 1,401,395; Dec. 27.
Automobile wheel, Demountable. G. E. Powell. No. 1,401,815; Dec. 27.
Automobiles, Antitheft-lock for. T. W. Irving. No. 1,401,395; Dec. 27.
Automobiles, Lighting arrangement for. F. W. Hines. No. 1,401,602; Dec. 27.
Automobiles, Nonskid device for. A. Erat. No. 1,401,245; Dec. 27.
Automobiles, Steering device for. J. T. Duncan. No. 1,401,398; Dec. 27.
Automobiles, Storm and sun guard for. J. H. Whitish. No. 1,401,382; Dec. 27.
Bag-fastener. J. M. Almedia. No. 1,401,854; Dec. 27.
Baggage-check. J. R. Loracy. No. 1,401,338; Dec. 27.
Ball-retainers, Machine for filling. J. Diesk. No. 1,401,630; Dec. 27.
Bar: *See*—
Grate-bar.
Pinch-bar.
Bath nozzle, Shower-. E. Circle. No. 1,401,462; Dec. 27.
Battery: *See*—
Storage battery.
Battery plates, Table for pasting storage-. W. H. Nordhaus. No. 1,401,181; Dec. 27.
Battery-post and making a seal. H. L. Wood. No. 1,401,573; Dec. 27.
Battery-terminals, Wrench for. W. E. Swearingen. No. 1,401,828; Dec. 27.
Bearing. D. T. Sharples and G. D. Grosner. No. 1,401,195; Dec. 27.
Bearing, Adjustable ball-. L. Miquet. No. 1,401,849; Dec. 27.
Bearing, Car-axle. J. R. Stephens. No. 1,401,208; Dec. 27.
Bearing for tire and trunnion type mills, Roller-. F. D. Gross, R. P. Akins, and J. W. Bucher. No. 1,401,536; Dec. 27.
Beater. H. M. Hull. No. 1,401,408; Dec. 27.
Bed, Camper's. R. Wiles. No. 1,401,846; Dec. 27.
Bedclothes-holder. R. J. Lindsay. No. 1,401,340; Dec. 27
Bedclothes support. F. Eastland. No. 1,401,244; Dec. 27
Bed, Foldable. O. Konrad. No. 1,401,796; Dec. 27.
Bed, Folding. H. Litvak. No. 1,401,714; Dec. 27.
Bed-jack. J. M. Phillips. No. 1,401,554; Dec. 27.
Bed-spring frame and bedstead, Combined. H. Litvak. No. 1,401,163; Dec. 27.
Bedpan. B. Moseley. No. 1,401,547; Dec. 27.
Belt-fastener. C. S. S. Voss. No. 1,401,606; Dec. 27.
Belt-tightening mechanism. C. L. McCuen. No. 1,401,169; Dec. 27.
Belts, Manufacturing endless V-shaped or angular. C. E. King. No. 1,401,480; Dec. 27.
Belts, Mold for making fan-. C. D. Hibbs. No. 1,401,255; Dec. 27.
Berry-box. E. O. Nordstrom. No. 1,401,549; Dec. 27.
Beverages, Preparing low alcoholic and non-alcoholic. H. Heuser. No. 1,401,700; Dec. 27.
Binder, Loose-leaf. C. Goldstein. No. 1,401,250; Dec. 27.
Binder, Loose-leaf. L. B. Stoddard. No. 1,401,566; Dec. 27.
Binder-rack. F. L. Manny. No. 1,401,171; Dec. 27.
Bit: *See*—
Extension-bit.
Bleaching-composition. E. Forbes. No. 1,401,901; Dec. 27.
Block: *See*—
Concrete building-block.
Board: *See*—
Adjustable drawing-board.
Boats, Manually-propelled life-saving device and attachment for. E. Bellman. No. 1,401,233; Dec. 27.
Boiler: *See*—
Oil-fired boiler.
Boilers, Means for preventing the formation of scale in steam-. F. I. du Pont. No. 1,401,893; Dec. 27.
Boilers, Tool for applying staybolt-sleeves to. F. K. Landgraf. No. 1,401,611; Dec. 27.
Boilers, Water-level regulator for steam-. F. I. du Pont. No. 1,401,802; Dec. 27.
Boilers, Water-level regulator for steam-. F. I. du Pont. No. 1,401,894; Dec. 27.
Book, Check-. H. A. Priser. No. 1,401,279; Dec. 27.
Booster. J. Oliphant. No. 1,401,946; Dec. 27.
Booster-motor support. H. M. Pflager. No. 1,401,553; Dec. 27.
Bottle-capping device. E. M. Letts. Nos. 1,401,800–1; Dec. 27.
Bottles, &c., Machine for filling. J. F. Geyer. No. 1,401,150; Dec. 27.
Bottles, &c., Machine for manufacturing closures for. E. and J. Alberti. No. 1,401,800; Dec. 27.
Box: *See*—
Berry-box.
Exhaust-box.
Window provision-box.
Box, S. Koff. No. 1,401,794; Dec. 27.
Box-making machine. J. W. Hughes. No. 1,401,407; Dec. 27.
Bracket: *See*—
Portable electric bracket.
Bracket. E. A. Hawthorne. No. 1,401,402; Dec. 27.
Brake: *See*—
Rudder-brake.
Breeze-arrester and the like. E. C. Woodin. No. 1,401,224; Dec. 27.
Bridge. J. M. Swonger. No. 1,401,374; Dec. 27.
Broom-bridle. G. A. McGarr. No. 1,401,342; Dec. 27.
Brush-holder. D. F. Dillin. No. 1,401,679; Dec. 27.
Brush, Powder-distributing. P. D'Alessandro. No. 1,401,598; Dec. 27.
Bucket, Excavating-. V. H. Jackson. No. 1,401,782; Dec. 27.
Building, &c., Protractor for laying off lines, angles, and elevations in. A. R. Smith. No. 1,401,200; Dec. 27.
Bulkhead, Removable. J. T. McNally. No. 1,401,419; Dec. 27.
Bundling-machine. B. R. Williamson. No. 1,401,298; Dec. 27.
Burner: *See*—
Hydrocarbon-burner.
Burnishing machine, Metal-. W. B. Smith. No. 1,401,563; Dec. 27.
Butter-oil from milk, skim-milk, cream, buttermilk, butter, &c. W. Alexander. No. 1,401,853; Dec. 27.
Button-fastener. G. F. Armstrong. No. 1,401,232; Dec. 27.
Buttons, Card for holding. W. L. Rothschild. No. 1,401,736; Dec. 27.
Cabinet, Flexible filing-. C. G. Ray. No. 1,401,188; Dec. 27.
Cable and telephone-wire containing rail. F. Gaspar. No. 1,401,531; Dec. 27.

Cable-shackle. H. M. Rhorer and J. T. Davis. No. 1,401,494; Dec. 27.
Cableway. T. S. Miller. No. 1,401,271; Dec. 27.
Calcining alunite. H. F. Chappell. Nos. 1,401,136–7; Dec. 27.
Calculating device. W. E. Harris. No. 1,401,402; Dec. 27.
Caldrons, Stirring device for. F. Milsome. No. 1,401,506; Dec. 27.
Calender, Perpetual. H. O. Windahl. No. 1,401,365; Dec. 27.
Camera, Process or copying. A. Fruwirth. No. 1,401,302; Dec. 27.
Camphor, Purification of crude synthetic. J. M. Kessler. No. 1,401,709; Dec. 27.
Can: *See*—
Lubricating-can. Oil-can.
Cans, Conduit device for tapping. A. F. Clark. No. 1,401,344; Dec. 27.
Canning device. J. W. Stark. No. 1,401,742; Dec. 27.
Cap-spooling frame. J. H. Jones. No. 1,401,710; Dec. 27.
Car. G. E. Tuckray. No. 1,401,355; Dec. 27.
Car coupling, Mine. J. E. Dains. No. 1,401,509; Dec. 27.
Car-door, F. Coppola. No. 1,401,782; Dec. 27.
Car-doors, Combination lock for. W. J. Mahoney. No. 1,401,701; Dec. 27.
Car-lighting system. L. A. Watson. No. 1,401,451; Dec. 27.
Car, Motor-. A. Landini. No. 1,401,767; Dec. 27.
Carmeaver. F. A. Kell. No. 1,401,411; Dec. 27.
Car, Railway motor-. J. F. Kostecka. No. 1,401,801; Dec. 27.
Cars and similar vehicles, Journal-box for railway-. A. Henderson. No. 1,401,141; Dec. 27.
Carbon-black, Producing. E. W. Sonnborger. Nos. 1,401,737–8; Dec. 27.
Carbon-removing device. P. B. Saugen. No. 1,401,480; Dec. 27.
Carburetor. C. L. Rayfield. No. 1,401,555; Dec. 27.
Carbureter accessory. C. West. No. 1,401,261; Dec. 27.
Carbureter attachment. J. S. Bahr and M. R. Logue. No. 1,401,127; Dec. 27.
Card and poster holder, Commercial. C. Weidner. No. 1,401,216; Dec. 27.
Carpet-fastening device. G. W. Rathjens. No. 1,401,400; Dec. 27.
Carrier: *See*—
Trace-carrier.
Cartridge-holder. S. G. Green. No. 1,401,152; Dec. 27.
Case: *See*—
Tobacco-display case.
Cement holder and spreader, Flue-. H. Gotthard. No. 1,401,318; Dec. 27.
Cementing apparatus. L. A. Casgrain. No. 1,401,257; Dec. 27.
Centrifugal machine. P. T. Sharples. No. 1,401,196; Dec. 27.
Centrifugal machine. S. A. Touceda. No. 1,401,251; Dec. 27.
Centrifugal machines, Spindle for. P. T. Sharples. No. 1,401,197; Dec. 27.
Chain, Coupling. S. Saigmol. No. 1,401,194; Dec. 27.
Chair: *See*—
Collapsible chair. Hitch chair.
Chair attachment, Rocking-. A. Zubryd. No. 1,401,220; Dec. 27.
Chair base, Interlocking. T. W. Foote. No. 1,401,230; Dec. 27.
Chair, Collapsible. A. Mocha. No. 1,401,272; Dec. 27.
Change-speed and reversing gearing. W. B. Oriel. No. 1,401,636; Dec. 27.
Change-speed mechanism. W. Kessler. No. 1,401,538; Dec. 27.
Charge forming and positioning apparatus. M. Fogde and L. P. Sventzwick. No. 1,401,882; Dec. 27.
Chart. J. E. McDade. No. 1,401,341; Dec. 27.
Check-protector. F. E. McAllister. No. 1,401,198; Dec. 27.
Chemical appliance. J. J. Porter. No. 1,401,193; Dec. 27.
Chlorin-dispenser, Portable. J. W. Van Meter. No. 1,401,373; Dec. 27.
Chuck. W. Castaule. No. 1,401,812; Dec. 27.
Chuck. R. F. Runge. No. 1,401,192; Dec. 27.
Chuck. C. F. Swinegabel. No. 1,401,207; Dec. 27.
Cigars, &c., Petrol or spirit lighters for. J. Mans. No. 1,401,344; Dec. 27.
Clamp: *See*—
Needle-clamp.
Clasp: *See*—
Shirt-clasp.
Clasp for documents, &c. B. Golden. No. 1,401,770; Dec. 27.
Clip: *See*—
Pencil-clip.
Clock, Geographical. A. Caesar. No. 1,401,390; Dec. 27.
Cloth-finishing. G. Wolf. No. 1,401,663; Dec. 27.
Clothes-rack, Folding. H. S. Geer. No. 1,401,532; Dec. 27.
Clothes-wringer. G. R. Townsend. No. 1,401,210; Dec. 27.
Coating, Tool for applying. H. W. Day. No. 1,401,307; Dec. 27.
Coils, Electrical searching-. A. B. Comstock. No. 1,401,500; Dec. 27.
Coin-delivery apparatus. E. J. Brandt. No. 1,401,131; Dec. 27.
Collecting and bundling mechanism, Article-. M. O. Clayes. No. 1,401,520; Dec. 27.
Colour-sorting machine. P. F. Dusha and A. Feyk. No. 1,401,505; Dec. 27.
Colouring-machine. R. Sykora. No. 1,401,504; Dec. 27.
Coupler, Pneumatic. L. E. Dayton. No. 1,401,858; Dec. 27.
Coupling and brush, Combination. N. Baldrad. No. 1,401,576; Dec. 27.
Coupling-machine. J. W. Nesmith. No. 1,401,179; Dec. 27.
Coupling-rod. A. A. Aust. No. 1,401,124; Dec. 27.
Compressor, Automatic-fitting for aerators. E. S. Suter. No. 1,401,202; Dec. 27.
Compressor. F. D. Holdsworth. No. 1,401,803; Dec. 27.
Compressor-controlling mechanism. F. D. Holdsworth. No. 1,401,804; Dec. 27.
Compressor-unloading mechanism. H. B. Harcourt. No. 1,401,944; Dec. 27.
Compressors, Method and apparatus for regulating air-. Hilliard, E. Brown and A. Carroll. No. 1,401,868; Dec. 27.
Concreting machine. O. Woodward. No. 1,401,735; Dec. 27.
Concreting ramming-block. J. R. Hoffman. No. 1,401,824; Dec. 27.
Concrete building-blocks, Apparatus for use in making. W. Wilson. No. 1,401,544; Dec. 27.
Concrete-walls, Form for hollow. H. Farnum. No. 1,401,695; Dec. 27.
Conveyance, Motor. C. F. Thomas. No. 1,401,891; Dec. 27.
Control apparatus. L. H. Riley. No. 1,401,845; Dec. 27.
Control apparatus. E. E. Rice and C. A. Smith. No. 1,401,547; Dec. 27.
Control mechanism. H. L. Wabon. No. 1,401,744; Dec. 27.
Conveyer, Rotary. F. C. Jacoby. No. 1,401,155; Dec. 27.
Conveyer, Kiln-car-transom for. H. F. Rutherford. No. 1,401,372; Dec. 27.
Cooking apparatus. W. S. Marvin. No. 1,401,848; Dec. 27.
Cooling element. F. Ljungström. Dec. 1,401,869; Dec. 27.
Core-drawer. W. Olcott. No. 1,401,865; Dec. 27.
Cot for use with automobiles, Portable. C. F. Ball. No. 1,401,328; Dec. 27.
Cotton-treating machine, Lint-. H. Petrie. No. 1,401,429; Dec. 27.
Counterbalance-arm and spring. S. W. Nicholson. No. 1,401,358; Dec. 27.
Coupling: *See*—
Automatic coupling. Pipe-coupling.
Chain-coupling. Truck and trailer coupling.
Cradle, Lumber-. E. G. Swarts. No. 1,401,396; Dec. 27.
Crates, &c., Closure device for egg-. W. H. Brandt. No. 1,401,296; Dec. 27.
Crowning-machine. T. J. Kula. No. 1,401,912; Dec. 27.
Crusher: *See*—
Tobacco-leaf crusher.
Crutch. E. C. Beecroft. No. 1,401,889; Dec. 27.
Cultivator. H. C. Williams. No. 1,401,297; Dec. 27.
Cultivator attachment. G. E. Liles. No. 1,401,893; Dec. 27.
Curb and gutter finishing tool, Combined. G. M. Webb. No. 1,401,457; Dec. 27.
Currents, Method and apparatus for amplification of small. C. W. Rice. No. 1,401,644; Dec. 27.
Curry-comb and brush, Combined. J. Butterfield. No. 1,401,134; Dec. 27.
Curtain-pole. P. Pimlott. No. 1,401,727; Dec. 27.
Curtain-window. C. F. Preston. No. 1,401,390; Dec. 27.
Cushion: *See*—
Die-cushion. Suspension air-cushion.
Cylinder and rotary-sleeve-valve motor, Composite-. I. M. Davidson. No. 1,401,322; Dec. 27.
Cylinder, Commutator-. W. H. Kempton. No. 1,401,708; Dec. 27.
Darning-hook. E. J. Post. No. 1,401,729; Dec. 27.
Dental treatment, &c., Saliva-ejector for use in. J. A. Rönn. No. 1,401,546; Dec. 27.
Dental vulcanizer. H. L. Wyvert. No. 1,401,923; Dec. 27.
Denture, Artificial. F. L. Eager. No. 1,401,243; Dec. 27.
Diameter-gage. E. H. Aldenborgh. No. 1,401,119; Dec. 27.
Die-Cushion. D. Strand. No. 1,401,371; Dec. 27.
Dimethyl sulfate, Preparation of. W. N. Haworth and J. C. Irvine. No. 1,401,603; Dec. 27.
Dinitrodi phenylamin, Preparing. R. C. Moran. No. 1,401,437; Dec. 27.
Dipping apparatus. J. W. Pearson. No. 1,401,427; Dec. 27.
Dirigible spotlight. W. S. and E. H. Farnsworth. No. 1,401,246; Dec. 27.
Dish-scraper. F. Beuckmann. No. 1,401,457; Dec. 27.
Dish-washing tool. C. M. Colby. No. 1,401,478; Dec. 27.
Disk-cutting machine. F. Biando and S. Usera. No. 1,401,397; Dec. 27.
Dispensing vessel. W. H. Damon. No. 1,401,743; Dec. 27.
Display device. R. M. Mouat. No. 1,401,632; Dec. 27.
Display mechanism. E. F. Van Vechten. No. 1,401,879; Dec. 27.
Door, Elevator-. C. H. McClintock. No. 1,401,418; Dec. 27.
Door-lock. W. A. Lurie. No. 1,401,190; Dec. 27.
Door-lock. E. G. Simpson. No. 1,401,209; Dec. 27.
Door-opener. L. Cerne. No. 1,401,865; Dec. 27.
Door-operating device. J. D. Bellis. No. 1,401,292; Dec. 27.
Door-operating mechanism, Foot-pedal for pneumatic. G. H. Clark and L. Schaumburger. No. 1,401,875; Dec. 27.

Doubling-machine. E. J. Lapel. No. 1,401,618; Dec. 27.
Dowdle. D. H. Cooper. No. 1,401,679; Dec. 27.
Drawing-board, Adjustable. W. L. Bass. No. 1,401,458; Dec. 27.
Drawing-instrument. A. B. Dagnelli. No. 1,401,501; Dec. 27.
Drill. J. F. Murray. No. 1,401,258; Dec. 27.
Drill-press, Controlling means, Multiple-. M. Bakker. No. 1,401,256; Dec. 27.
Duplicating-machine, Automatic. T. A. Steinmetz. No. 1,401,829; Dec. 27.
Dynamic balancing machine. E. A. L. Volet. No. 1,401,838; Dec. 27.
Electric circuits, Protecting device for. N. J. Conrad. No. 1,401,841; Dec. 27.
Electric fixture. F. L. Butler. No. 1,401,460; Dec. 27.
Electric generator, Dynamo-. V. Crabb. No. 1,401,893; Dec. 27.
Electric heater. J. E. C. Holmes. No. 1,401,472; Dec. 27.
Electric heater. O. P. Scott. No. 1,401,500; Dec. 27.
Electric inverting unit. F. Thornton, Jr. No. 1,401,667; Dec. 27.
Electric machine, Dynamo-. W. A. Turbayne. No. 1,401,847; Dec. 27.
Electric machine, Regulating device for dynamo-. J. B. Sargent. No. 1,401,492; Dec. 27.
Electric motor. T. J. Murphy. No. 1,401,548; Dec. 27.
Electric resistance unit. H. F. Prenzlow. No. 1,401,186; Dec. 27.
Electric side-wall heater. O. P. Scott. No. 1,401,447; Dec. 27.
Electric switch. F. R. Cornwall. No. 1,401,537; Dec. 27.
Electric switch construction. C. Duncan. No. 1,401,501; Dec. 27.
Electric waffle-irons. F. F. Forshee. No. 1,401,688; Dec. 27.
Electrical distributing system. G. Faccioli. No. 1,401,682; Dec. 27.
Electrical system, Controlling device for. W. H. Mooney. No. 1,401,552; Dec. 27.
Electrically-operated hand-truck, Device for. D. Donaldson. No. 1,401,502; Dec. 27.
Elevator, Grain-. J. W. Hurt. No. 1,401,909; Dec. 27.
Emergency source of voltage. L. W. Chubb. No. 1,401,671; Dec. 27.
Emery wheel-dressing tools, Cutter for. F. C. Brandenburg. No. 1,401,666; Dec. 27.
Engine: *See*—
Compressing-engine. Rotary internal-combustion engine.
Explosion-engine.
Internal-combustion engine. Steam-engine.
Rotary engine.
Engine-lifter. C. C. Chase. No. 1,401,138; Dec. 27.
Engine or motor. H. V. J. Jouffret. No. 1,401,784; Dec. 27.
Engine shut-off, Float controlled. B. S. Williams. No. 1,401,383; Dec. 27.
Engine-starter. W. L. McGrath. No. 1,401,170; Dec. 27.
Engines, Electrical system for. C. F. Kettering and W. A. Chryst. No. 1,401,237; Dec. 27.
Engines, Ignition and scavenging means for internal-combustion. P. Kahn. No. 1,401,706; Dec. 27.
Engines or motor devices, Speed-governor for. L. A. Darling. No. 1,401,820; Dec. 27.
Engines, Spark-plug serving also as compression and injection valve for internal-combustion. C. O. Landgrebe. No. 1,401,612; Dec. 27.
Engines, Valve mechanism of internal-combustion. A. W. Wall. No. 1,401,294; Dec. 27.
Envelop. O. G. Klein. No. 1,401,782; Dec. 27.
Envelop, Combined statement and return. R. Dority and H. W. Breining. No. 1,401,324; Dec. 27.
Equaliser. H. M. Rockwell. No. 1,401,558; Dec. 27.
Excavator, Boom-drag-line. W. H. Crawford. No. 1,401,819; Dec. 27.
Exhaust box. H. Schneebeli. No. 1,401,308; Dec. 27.
Exhauster. G. W. Christoph. No. 1,401,583; Dec. 27.
Explosion-engine. M. Birkist. No. 1,401,862; Dec. 27.
Extending-bit. P. Baemalson. No. 1,401,458; Dec. 27.
Extension-belt. C. C. Roberts. No. 1,401,444; Dec. 27.
Eye-shade. W. A. Carleton. No. 1,401,758; Dec. 27.
Eyeglasses or spectacles. B. P. Erhard. No. 1,401,327; Dec. 27.
Fare-receiving and registering apparatus. H. E. Reynolds. No. 1,401,732; Dec. 27.
Farm implement. P. A. Organ. No. 1,401,434; Dec. 27.
Fastener-setting machine. J. Gouldbourn. No. 1,401,251; Dec. 27.
Fastenings, Machine for inserting. G. Goddu and F. L. Mackenzie. No. 1,401,249; Dec. 27.
Faucet. G. C. Klein. No. 1,401,412; Dec. 27.
Feed-gear attachment. P. T. Bailey. No. 1,401,509; Dec. 27.
Ferrozirconium, Making. B. H. McKee. No. 1,401,265; Dec. 27.
Fertilizers, Producing potash containing. C. Rossi. Nos. 1,401,648–9; Dec. 27.
Fiber-conditioning process and apparatus. A. W. Thompson. No. 1,401,776; Dec. 27.
Filter, Automatic. G. E. Morris. No. 1,401,610; Dec. 27.
Fire-alarm device, Automatic. E. A. Lowe. No. 1,401,914; Dec. 27.
Fire-extinguisher. B. B. Carter. No. 1,401,135; Dec. 27.
Fire-extinguisher system, Automatic attachment for. J. C. Meleon. No. 1,401,175; Dec. 27.
Fire-extinguishing device. O. R. Erwin and H. V. Glos. No. 1,401,328; Dec. 27.
Fire extinguishing liquid. B. I. Corson. No. 1,401,240; Dec. 27.
Fire-flap. G. R. Bird. No. 1,401,306; Dec. 27.
Fire-kindling device. F. Lynes. No. 1,401,868; Dec. 27.
Firearm. W. Browning. No. 1,401,579; Dec. 27.
Firearm. J. D. Pedersen. No. 1,401,552; Dec. 27.
Firearm, Repeating. C. G. Swebilius. No. 1,401,563; Dec. 27.
Flag and flag-support. J. Mader. No. 1,401,626; Dec. 27.
Floor-finishing apparatus. A. W. Green. No. 1,401,400; Dec. 27.
Floors, Dividers for cementitious. L. Dal Turco. No. 1,401,690; Dec. 27.
Floors, woodwork, &c., Composition for filling, polishing, and finishing. F. Herrington. No. 1,401,907; Dec. 27.
Flotation apparatus. B. Gabl. No. 1,401,598; Dec. 27.
Flotation apparatus and process. F. D. Gross, R. P. Akins and J. W. Bucher. No. 1,401,585; Dec. 27.
Flue-stop. J. E. Cloud and H. F. Staifer. No. 1,401,816; Dec. 27.
Flue-stopper. L. J. Allie. No. 1,401,936; Dec. 27.
Fluid-current motor. H. J. Scharnagel. No. 1,401,651; Dec. 27.
Form, Commercial. J. Primbs. No. 1,401,641; Dec. 27.
Food compound and making same. J. H. Sampson. No. 1,401,498; Dec. 27.
Foot troubles, Two piece arch-support for correcting metatarsal. E. Helntze. No. 1,401,254; Dec. 27.
Frame: *See*—
Cap-spinning frame.
Friction-drive mechanism. R. Sykora. No. 1,401,505; Dec. 27.
Fruit, Machine for extracting juice from. J. C. Liggett. No. 1,401,416; Dec. 27.
Furnace: *See*—
Electric glass-annealing furnace. Melting-furnace.
Soldering furnace.
Gage: *See*—
Diameter-gage. Saw gage.
Float-controlled oil-gage.
Gage-tube protector and illuminator. A. L. Wright. No. 1,401,574; Dec. 27.
Game device. F. C. Westphal. No. 1,401,844; Dec. 27.
Garment-leg supporter. H. K. White. No. 1,401,220; Dec. 27.
Garnett machine. W. F. Bokum and H. V. Coulston. No. 1,401,863; Dec. 27.
Gases, Diffusing and disseminating poisonous. J. W. Van Meter. No. 1,401,292; Dec. 27.
Gases, Flow-meter for. R. H. Davis. No. 1,401,887; Dec. 27.
Gases, Removing solids suspended in or carried by. F. C. Roberts. No. 1,401,788; Dec. 27.
Gear, Engine stop-. D. Cockburn and D. MacNicoll. No. 1,401,289; Dec. 27.
Gear, Self-lubricating. J. R. McClain. No. 1,401,622; Dec. 27.
Gear-teeth, Forming. C. A. Parsons and S. S. Cook. No. 1,401,550; Dec. 27.
Gear-wheels, Apparatus for cutting toothed. E. L. J. Delamare. No. 1,401,823; Dec. 27.
Gears, Yoke for draft-. C. A. Carscadin. No. 1,401,311; Dec. 27.
Gearing. J. L. Ward. No. 1,401,659; Dec. 27.
Gearing. J. Wilkinson. No. 1,401,662; Dec. 27.
Gearing, Change-speed and reversing. W. B. Oriel. No. 1,401,636; Dec. 27.
Gearing driving unit. F. J. and J. L. Muench. No. 1,401,916; Dec. 27.
Generator: *See*—
Dynamo-electric generator.
Girdle. A. B. Heck. Nos. 1,401,860–1; Dec. 27.
Glass annealing furnace, Electric. O. A. Colby. No. 1,401,674; Dec. 27.
Glass, Automatic machine for blowing. E. Lecoultre. No. 1,401,713; Dec. 27.
Glass-feeding apparatus. K. E. Peller. No. 1,401,921; Dec. 27.
Glass, Grinding. W. Taylor. No. 1,401,830; Dec. 27.
Glass, Grinding. W. Taylor. No. 1,401,832; Dec. 27.
Glass, Method of and apparatus for grinding. W. Taylor. No. 1,401,831; Dec. 27.
Glass plates, Machine for grinding. W. J. Herschede and W. Eberhardt. No. 1,401,698; Dec. 27.
Glass-working. K. E. Peller. No. 1,401,922; Dec. 27.
Glove cover, Boxing-. Z. G. Oldham. No. 1,401,712; Dec. 27.
Goggles. F. Willson and H. F. Shindel. No. 1,401,572; Dec. 27.
Grape extract, Manufacture of. E. Monti. No. 1,401,851; Dec. 27.
Grate-bar. A. Johnson. No. 1,401,783; Dec. 27.
Grate, Chain. V. V. Veenschoten. No. 1,401,211; Dec. 27.
Gravel, Forming sand from. J. H. Rodgers. No. 1,401,445; Dec. 27.
Grinding-machines, Feed mechanism for. W. J. Herschede and W. Eberhardt. No. 1,401,699; Dec. 27.
Grizzly, Traveling. C. M. Avery. No. 1,401,751; Dec. 27.
Gum, and making same, Chewing. H. M. Weber. No. 1,401,452; Dec. 27.
Gun, Machine-. C. W. Brown. No. 1,401,667; Dec. 27.
Gun, Machine-. A. E. Fibricke. No. 1,401,768; Dec. 27.

Guns, Loading feed-belts for machine. H. H. Barr. No. 1,401,147; Dec. 27.
Gymnastic apparatus. Y. Jordan and J. P. Holmes. No. 1,401,476; Dec. 27.
Halogenation of anthraquinone derivatives. F. W. Atack and G. Rowntree. No. 1,401,135; Dec. 27.
Hammock, Combs-. O. P. Skidmore and L. E. Pittock. No. 1,401,296; Dec. 27.
Handbag. G. H. Metternich. No. 1,401,426; Dec. 27.
Handle. G. L. Eberhardt. No. 1,401,404; Dec. 27.
Hanger: *See*—
Trolley-hanger.
Harness. J. C. Hanking. No. 1,401,460; Dec. 27.
Harp. F. P. Keet. No. 1,401,158; Dec. 27.
Harrow. P. W. Grems. No. 1,401,254; Dec. 27.
Harvester, Bean-. H. H. Swindell. No. 1,401,529; Dec. 27.
Harvester, Corn-. H. B. Holmes. No. 1,401,761; Dec. 27.
Harvesting machine, Beet-. F. H. Knowles. No. 1,401,414; Dec. 27.
Hasp. C. D. Geese. No. 1,401,451; Dec. 27.
Hats, Impregnating. Germain, see Trich. No. 1,401,309; Dec. 27.
Hay-press. W. E. McCorquodale. No. 1,401,715; Dec. 27.
Hay-rake. W. F. Mottier. No. 1,401,574; Dec. 27.
Headlight, Automobile. H. P. Leedom. No. 1,401,319; Dec. 27.
Headrests, Cushion for. R. Hollis. No. 1,401,400; Dec. 27.
Headwear. S. Werner. No. 1,401,745; Dec. 27.
Heat-exchange device. F. A. Halleck. No. 1,401,717; Dec. 27.
Heat-exchange system. W. Coates. No. 1,401,523; Dec. 27.
Heater: *See*—
Electric heater. Induction-heater.
Electric side-wall heater. Railway-switch heater.
Heater unit. H. R. Ziebell. No. 1,401,241; Dec. 27.
Heating device. K. W. Knapp and W. G. Holmes. No. 1,401,793; Dec. 27.
Heating system. H. H. Berrymann. No. 1,401,512; Dec. 27.
Heel. N. A. Monfils. No. 1,401,803; Dec. 27.
Heel-blanks, Preparation of. T. Lund. No. 1,401,165; Dec. 27.
Heel-grip for shoes. D. Kernohan. No. 1,401,790; Dec. 27.
Heels to shoes, Device for use in attaching. S. G. Shapiro. No. 1,401,819; Dec. 27.
High-chair. A. M. Tretter. No. 1,401,834; Dec. 27.
Hinge. C. B. Roberts. No. 1,401,734; Dec. 27.
Hitch. A. A. Danielson. No. 1,401,764; Dec. 27.
Holder. I. J. Jackson. No. 1,401,474; Dec. 27.
Hook: *See*—
Darning-hook.
Hopper and discharge chute. F. P. Vogt. No. 1,401,527; Dec. 27.
Hose-nozzle. H. E. Mong. No. 1,401,425; Dec. 27.
Human joints, Device for measuring the range of movement of. W. W. P. Falconer. No. 1,401,146; Dec. 27.
Hydrocarbon-burner. W. M. Hoffman. Nos. 1,401,403–4; Dec. 27.
Ignition apparatus, Short-circuiting device for electrical. M. Schäfer and A. Kraus. No. 1,401,307; Dec. 27.
Ignition system. W. A. Chryst. No. 1,401,318; Dec. 27.
Ignition system. C. F. Kettering. No. 1,401,477; Dec. 27.
Incubator. J. S. Brower. No. 1,401,756; Dec. 27.
Induction-coil. J. B. Replogle. No. 1,401,493; Dec. 27.
Induction-heater. O. A. Colby. No. 1,401,673; Dec. 27.
Ingot-pouring mechanism. S. B. Sheldon. No. 1,401,728; Dec. 27.
Inking apparatus, Mechanical. C. F. Weldon. No. 1,401,218; Dec. 27.
Inner-cushioned wheel. F. Mead. No. 1,401,421; Dec. 27.
Inserting fastenings, Machine for. G. Goddu and F. L. Mackenzie. No. 1,401,247; Dec. 27.
Internal-combustion engine. L. E. Rausenberger. No. 1,401,442; Dec. 27.
Internal-combustion engine, Rotary. F. Keller, Jr. No. 1,401,478; Dec. 27.
Internal-combustion motor and fuel feed therefor. A. Winton. No. 1,401,746; Dec. 27.
Invalid-table. J. Perron. No. 1,401,630; Dec. 27.
Iron: *See*—
Perforating-iron. Soldering-iron.
Irrigating system and applying same. G. B. Woodberry. No. 1,401,386; Dec. 27.
Jack: *See*—
Bed-jack. Sifting-jack.
Pump-jack.
Jar-closure. W. W. Dodge. No. 1,401,467; Dec. 27.
Joint: *See*—
Rail-joint.
Key ring and holder, Combined. S. Peter. No. 1,401,184; Dec. 27.
Kiln: *See*—
Rotary kiln.
Kiln. J. H. Lemmon. No. 1,401,481; Dec. 27.
Kiln, Rotary. S. J. Vermaes. No. 1,401,212; Dec. 27.
Knitted fabrics for use, Preparation of. C. E. Shaw. No. 1,401,501; Dec. 27.
Knitting machine, Circular glove-. J. Lawson. No. 1,401,712; Dec. 27.
Knitting machines, Embroidering attachment for flat-. K. F. Nebel. No. 1,401,720; Dec. 27.
Knit tubular fabrics, Method and apparatus for stripping and pressing. T. Cunningham. No. 1,401,259; Dec. 27.
Label, envelop-shaping. A. D. Gaspar. No. 1,401,300; Dec. 27.
Lacing device. J. H. Rand. No. 1,401,290; Dec. 27.
Ladder. F. M. de Beaumont, Jr. No. 1,401,520; Dec. 27.
Ladder. S. Nyce. No. 1,401,554; Dec. 27.
Lamp. H. W. Lester. No. 1,401,418; Dec. 27.
Lamp, Adjustable coin-. A. Halliwell. No. 1,401,159; Dec. 27.
Lamp bracket, Portable electric. M. Clausen and G. B. Dodd. No. 1,401,675; Dec. 27.
Lamp, Electric focus-. H. Bannhauser. No. 1,401,419; Dec. 27.
Lamp, Miner's carbide-. I. I. Billings. No. 1,401,139; Dec. 27.
Lamp, Portable electric. L. F. Pihl. No. 1,401,670; Dec. 27.
Lasting machine. A. A. Maitland. No. 1,401,167; Dec. 27.
Lathe attachment. M. G. Husted. No. 1,401,705; Dec. 27.
Lathes, Taper attachment for. W. F. Greene. No. 1,401,582; Dec. 27.
Lead mattes, Method and apparatus for separating fusing substances from. E. A. Sperry. No. 1,401,747; Dec. 27.
Leg construction. H. J. Gwyer. No. 1,401,777; Dec. 27.
Lens, Multifocal. G. A. Cowgill. No. 1,401,258; Dec. 27.
Lever, Jack-actuating. C. E. Markham. No. 1,401,173; Dec. 27.
Lifter: *See*—
Engine-lifter.
Lifting-jack. E. A. Clark. No. 1,401,761; Dec. 27.
Light. J. Aird. No. 1,401,657; Dec. 27.
Light-diverter. H. M. Ewing. No. 1,401,525; Dec. 27.
Lighting fixture. G. P. Robinson. No. 1,401,584; Dec. 27.
Lightning-arrester. E. A. Everest. No. 1,401,540; Dec. 27.
Line-and-trap retainer. H. M. Wyeth. No. 1,401,227; Dec. 27.
Liquids, Measure for dispensing. F. H. Sisers. No. 1,401,497; Dec. 27.
Liquid, Supply-cock for the delivery of measured quantities of. E. Hayes and A. Pilon. No. 1,401,542; Dec. 27.
Liquors, Filtration of sugar. G. W. S. Simpson and E. F. Lyle. No. 1,401,199; Dec. 27.
Lock: *See*—
Combination rotary-lock. Nut-lock.
Door-lock.
Lock. G. S. R. Kampmann. No. 1,401,810; Dec. 27.
Lock, Combination rotary. V. M. Young. No. 1,401,238; Dec. 27.
Locomotive, Electric. T. Zweigberg. No. 1,401,575; Dec. 27.
Locomotives, Quill-drive for electric. G. C. Allen. No. 1,401,281; Dec. 27.
Locomotives, Steam-turbine-driven. R. Bothammer. No. 1,401,306; Dec. 27.
Lubricating-can. G. Lidgett. No. 1,401,100; Dec. 27.
Lubricating system. E. W. Davis. No. 1,401,760; Dec. 27.
Lubricator. A. A. Van Dresdale. Nos. 1,401,825–6; Dec. 27.
Lubricators, Pneumatic control for. C. F. Hester. No. 1,401,474; Dec. 27.
Magnet, Horseshoe. F. Bilton and J. Bottl. No. 1,401,150; Dec. 27.
Magnetic unit, Tetrahedronal. J. B. Speed. No. 1,401,564; Dec. 27.
Magneto. J. A. Williams. No. 1,401,571; Dec. 27.
Mask. M. Pulj. No. 1,401,724; Dec. 27.
Mat: *See*—
Adhesive fabric-mat. Rubber mat.
Mattress-cutting machine. G. Dillon. (Reissue.) No. 15,270; Dec. 27.
Matso-breaker. J. U. Maniscalwitz. No. 1,401,568; Dec. 27.
Measuring device. D. G. Lorraine. No. 1,401,613; Dec. 27.
Measuring system. F. H. Sargent. No. 1,401,624; Dec. 27.
Melting furnace. G. H. Benjamin. No. 1,401,434; Dec. 27.
Meter. W. T. Clark. No. 1,401,812; Dec. 27.
Meter. W. J. Wohlgemuth. No. 1,401,559; Dec. 27.
Metal-founders' use and composition of matter for making same, Mold for. H. G. Wedemthal. No. 1,401,215; Dec. 27.
Metal wheel and making the same, One-piece cast. E. L. Smith. No. 1,401,502; Dec. 27.
Micrometer mechanism. W. P. London. No. 1,401,521; Dec. 27.
Milk, Producing lactic ferment cultures for. P. Petersen. No. 1,401,275; Dec. 27.
Mining-machine. G. T. Trundle, Jr. No. 1,401,379; Dec. 27.
Mineral substances, Flotation apparatus of. T. B. Palmer, H. V. Sears, and E. D. Nevett. No. 1,401,485; Dec. 27.
Mixer. D. Klein. No. 1,401,609; Dec. 27.
Mixing device. W. E. Jaques. No. 1,401,478; Dec. 27.
Molasses, Recovering materials from. R. de F. Olivarius. No. 1,401,423; Dec. 27.
Molding. S. Barker. No. 1,401,577; Dec. 27.
Molding apparatus. H. B. Harlow. No. 1,401,801; Dec. 27.
Molybdenum from molybdenite, Recovering. G. W. Sargent and J. W. Weltzenkorn. No. 1,401,924; Dec. 27.
Molybdenum from molybdenite, Recovering. G. W. Sargent and J. W. Weltzenkorn. No. 1,401,927; Dec. 27.
Molybdenum trioxid, Producing. J. W. Weltzenkorn. No. 1,401,862; Dec. 27.
Mortising-tool. A. H. Hawtinson. No. 1,401,469; Dec. 27.
Motor: *See*—
Electric motor. Tide-power motor.
Field-current motor.
Motor-control system. C. H. Allen. No. 1,401,837; Dec. 27.
Motor-control system. F. M. Parks. No. 1,401,638; Dec. 27.
Motor-starting mechanism. A. Winton. No. 1,401,747; Dec. 27.
Motors, Connecting-rod arrangement for star-shaped. L. Hegtin. No. 1,401,284; Dec. 27.
Motors, Connecting-rod head for rotative. L. Seguin. No. 1,401,295; Dec. 27.
Motors, Test-stand for testing starting-. J. C. Schaf, Jr., and W. J. Holliday. No. 1,401,740; Dec. 27.
Mouth-prop. S. Risby. No. 1,401,190; Dec. 27.
Mower, Lawn-. C. F. Jenkins. No. 1,401,150; Dec. 27.
Musical instrument, Stringed. J. Bosch and W. Kowaluk. No. 1,401,585; Dec. 27.
Musical instruments, Illuminating attachment for key-boards. B. C. Kingsley. No. 1,401,608; Dec. 27.
Musical instruments, Key-pad for wind. F. A. Buescher. No. 1,401,872; Dec. 27.
Musical instruments, Mouthpiece for. H. E. O'Brien. No. 1,401,634; Dec. 27.
Muzzle, Colt's. L. W. Williams. No. 1,401,848; Dec. 27.
Nails, Machine for feeding and driving. M. S. Finch. No. 1,401,767; Dec. 27.
Navigational instrument. J. T. Reeves. No. 1,401,862; Dec. 27.
Needle-clamp. A. H. DeVoe. No. 1,401,466; Dec. 27.
Nest, Hen's. E. S. Brown. No. 1,401,459; Dec. 27.
Nitrogen fixation. F. Darlington. No. 1,401,678; Dec. 27.
Non-slip device, Unit. W. B. Smith. No. 1,401,503; Dec. 27.
Nozzle. D. L. Connelly. No. 1,401,880; Dec. 27.
Nozzle for internal-combustion engines, Fuel-spraying. E. O. Keller. No. 1,401,911; Dec. 27.
Nut-cracking machine. R. S. Cowan. No. 1,401,588; Dec. 27.
Nut-lock. W. F. Brown. No. 1,401,757; Dec. 27.
Oar. W. G. Bolton. No. 1,401,864; Dec. 27.
Oil burners, Automatic regulators for fuel-. E. Groessenbacher. No. 1,401,569; Dec. 27.
Oil-can. A. R. Nelson. No. 1,401,180; Dec. 27.
Oil-can spout closer. G. Lidgett. No. 1,401,101; Dec. 27.
Oil-cured boiler. H. E. Yarrow. No. 1,401,850; Dec. 27.
Oil-gage, Float-controlled. V. S. Culwell and O. A. Bibb. No. 1,401,140; Dec. 27.
Oil, Manufacture of screw-cutting. H. C. Claflin. No. 1,401,760; Dec. 27.
Oil-well under-reamer. T. J. McCormick. No. 1,401,545; Dec. 27.
Oil-wells, Pumping mechanism for. O. M. Provorse and M. C. Sutherland. No. 1,401,440; Dec. 27.
Oiling device. C. Krallcek. No. 1,401,711; Dec. 27.
Ophthalmic mounting and making same. E. L. Schumacher. No. 1,401,283; Dec. 27.
Optical checking apparatus. R. Beman. No. 1,401,664; Dec. 27.
Ordnance. A. T. Dawson and J. Horne. No. 1,401,241; Dec. 27.
Ore, Apparatus for extracting metal from. H. H. Godfrey. No. 1,401,769; Dec. 27.
Ores and oxygen compounds utilized as ores, Method of and furnace for reducing. F. M. Wiberg. No. 1,401,222; Dec. 27.
Ores, Desulfurizing of zinc sulfid. G. Rigg. No. 1,401,733; Dec. 27.
Ornament support. L. V. Aronson. No. 1,401,750; Dec. 27.
Outing-table. W. A. Snyder. No. 1,401,449; Dec. 27.
Oven, Baker's. S. M. Cook. No. 1,401,592; Dec. 27.
Oven, Baker's. G. F. Smith. No. 1,401,823; Dec. 27.
Oven, Rotary. G. F. Smith. No. 1,401,824; Dec. 27.
Packaging device. M. B. Becker. No. 1,401,804; Dec. 27.
Packing-machine. W. A. Mooney. No. 1,401,273; Dec. 27.
Packing material. J. H. Shaw. No. 1,401,198; Dec. 27.
Padlock, Combination-. F. Anderson. No. 1,401,855; Dec. 27.
Paint composition, Moistureproof. D. A. Jerome. No. 1,401,261; Dec. 27.
Paper, &c., Electrical drier for. W. C. Baldwin. No. 1,401,503; Dec. 27.
Paper-container machinery. J. T. Bond. No. 1,401,132; Dec. 27.
Paper, Engine-sizing for. J. A. De Cew. No. 1,401,525; Dec. 27.
Paper-feeding mechanism. W. M. Kelly. No. 1,401,707; Dec. 27.
Paper pasteboard, pulp, &c., Composition of matter for impregnating articles made of. J. Crespo. No. 1,401,554; Dec. 27.
Peanuts out of the ground, Machine for digging. M. M. Nixon. No. 1,401,486; Dec. 27.
Pedals, Safety neutral stop for Ford clutch-. G. G. Porter. No. 1,401,359; Dec. 27.
Pedestal, Bench-. J. H. Lindsey, Sr. No. 1,401,162; Dec. 27.
Pencil-clip. G. S. Adolfson. No. 1,401,124; Dec. 27.
Pencil-holder, Pocket. E. J. Morin. No. 1,401,809; Dec. 27.
Pencil or pen attachment. A. E. Andersen. No. 1,401,454; Dec. 27.
Perforating apparatus. H. A. Silverman. No. 1,401,822; Dec. 27.
Perforating-iron. H. A. Silverman. No. 1,401,821; Dec. 27.
Perforating machine, Music-roll-. H. J. Smith. No. 1,401,201; Dec. 27.
Phonograph. K. Wojtasiewics. No. 1,401,849; Dec. 27.
Phonograph-needle sharpener. A. W. Wahlin. No. 1,401,929; Dec. 27.
Phonographs, Automatic stop for. J. Z. Tow. No. 1,401,658; Dec. 27.
Phonographs, Electric switch for. J. J. Scully. No. 1,401,652; Dec. 27.
Piano action, Player-. H. R. Heller. No. 1,401,778; Dec. 27.
Pianos, Unit system for player-. L. H. Pray. No. 1,401,780; Dec. 27.
Picture films, Method and machine for drying, cleaning, and polishing moving-. J. W. Gunby. No. 1,401,771; Dec. 27.
Picture projection apparatus, Motion-. E. Mechau. Nos. 1,401,345–6; Dec. 27.
Pinch-bar. A. F. Watson. No. 1,401,214; Dec. 27.
Pins, Machine for sizing dowel-. T. W. Foote. No. 1,401,331; Dec. 27.
Pipe: *See*—
Smoking-pipe. Tobacco-pipe.
Pipe-bending machine. H. P. Curtis. No. 1,401,894; Dec. 27.
Pipe-coupling. J. Williams. No. 1,401,847; Dec. 27.
Pipe-screwing machine. M. C. Hole. No. 1,401,405; Dec. 27.
Pipe, Smoking-. W. Celeda. No. 1,401,876; Dec. 27.
Pipe-tongs. G. A. Lowrey. No. 1,401,417; Dec. 27.
Pipe-wrench, Adjustable. W. Whelan. No. 1,401,931; Dec. 27.
Pipe-wrench, Combination. F. F. Calhoun. No. 1,401,669; Dec. 27.
Piston for internal-combustion engines. S. I. Fekete. No. 1,401,899; Dec. 27.
Piston-ring. T. and A. Mohn. No. 1,401,178; Dec. 27.
Piston-ring. H. A. Wainright. No. 1,401,930; Dec. 27.
Platen-press. M. Rockstroh. No. 1,401,818; Dec. 27.
Plates, Joining. T. J. Shea. No. 1,401,448; Dec. 27.
Pliers. A. Mac. No. 1,401,546; Dec. 27.
Plow attachment. L. Cleaton. No. 1,401,877; Dec. 27.
Plow, Gang-. E. J. Rimple and J. W. Morgan. No. 1,401,496; Dec. 27.
Plow, Turning shovel-. P. Hendel. No. 1,401,779; Dec. 27.
Plowshare edge, Detachable. P. A. Nordquist. No. 1,401,432; Dec. 27.
Plug, Switchboard-. A. H. Weiss. No. 1,401,217; Dec. 27.
Plunking, Electric heating device for. F. Frei. No. 1,401,686; Dec. 27.
Pneumatic-action unit. S. Battner. No. 1,401,857; Dec. 27.
Pole construction, Commutating. P. E. Henninger. No. 1,401,697; Dec. 27.
Potatoes, Apparatus for planting seed-. J. B. Crump. No. 1,401,855; Dec. 27.
Power motor, Tide-. P. J. Rooney. No. 1,401,559; Dec. 27.
Power-take-off mechanism. V. B. Korner. No. 1,401,157; Dec. 27.
Power-transmitting mechanism. N. C. Storey. No. 1,401,204; Dec. 27.
Press: *See*—
Hay-press. Two-way sign-printing press.
Platen-press. Stamping-press.
Printing-press.
Press platens, Envelop-holding attachment for printing-. C. H. Martin. No. 1,401,174; Dec. 27.
Pressing and other machines, Feeding motion for. H. B. Cranage. No. 1,401,884; Dec. 27.
Printing-plate and matrix. E. E. Novotny. No. 1,401,638; Dec. 27.
Printing-press. C. A. Meisel. Nos. 1,401,422–3; Dec. 27.
Printing press, Two-way sign-. C. W. Turner. No. 1,401,570; Dec. 27.
Projecting apparatus. A. Reiche. No. 1,401,189; Dec. 27.
Protective device. P. R. Fortin. No. 1,401,685; Dec. 27.
Pull-switch. A. H. Nero. No. 1,401,276; Dec. 27.
Pulley, Fluid-actuated clutch-. F. W. Parsons. No. 1,401,551; Dec. 27.
Pulverizer or grinding-machine. G. McCrae. No. 1,401,716; Dec. 27.
Pump. J. R. Richer and J. O. Hessler. No. 1,401,443; Dec. 27.
Pump, Deep-well. R. M. Downie. No. 1,401,681; Dec. 27.
Pump, Dust-cleaning suction-. O. M. Kennedy. No. 1,401,789; Dec. 27.
Pump-jack. H. Comstock. No. 1,401,817; Dec. 27.
Pump, Propeller-. M. P. Schetzel. No. 1,401,193; Dec. 27.
Pump, Sight-feed oil-. O. Everson. No. 1,401,145; Dec. 27.
Pumping, Apparatus for underground. P. Loubet. No. 1,401,620; Dec. 27.
Rack: *See*—
Binder-rack. Shoe-rack.
Folding clothes-rack.

Radiator. U. Mogul. No. 1,401,345; Dec. 27.
Radiator. F. A. Verna. No. 1,401,518; Dec. 27.
Radiator, Automobile. J. A. Hoover. No. 1,400,899; Dec. 27.
Radiator, Automobile. C. F. Spurr. No. 1,401,005; Dec. 27.
Radiators, Cooling. H. W. Bowles. No. 1,401,561; Dec. 27.
Radiator-cover. O. A. Larson and C. J. Tallon. No. 1,401,526; Dec. 27.
Radiator-shutter. L. G. Stephens. No. 1,401,090; Dec. 27.
Radiator, Water-cooling. J. Lake. No. 1,401,164; Dec. 27.
Radiators, Water-reservoir for automobile. F. Millington. No. 1,401,513; Dec. 27.
Rail. J. Clancy. No. 1,401,199; Dec. 27.
Rail-anchor. W. A. G. Lange. No. 1,401,558; Dec. 27.
Rail-bond. E. F. Gilbert. No. 1,401,527; Dec. 27.
Railway-coupling. A. M. Hibbard. No. 1,401,191; Dec. 27.
Railway draft-gear yoke. H. T. Anderson. No. 1,401,749; Dec. 27.
Railway gate and signal apparatus, Automatic. N. P. Tomkins. No. 1,401,575; Dec. 27.
Railway signaling mechanism. C. B. Buell. No. 1,401,511; Dec. 27.
Rail-support. L. Stenstol. No. 1,401,668; Dec. 27.
Railway-switch heater. W. T. Lawler. No. 1,401,789; Dec. 27.
Railway-trains, Adjustable brake arrangement operated by compressed fluid adapted to be used in. G. Dreibelbis. No. 1,401,325; Dec. 27.
Rake: *See*—
Hay-rake.
Rat-guard. W. F. Kealy. No. 1,401,540; Dec. 27.
Razor and hair-cutting appliance, Safety. A. J. Meisner. No. 1,401,312; Dec. 27.
Razor, Safety. J. H. D. Everett. No. 1,401,709; Dec. 27.
Receiver. J. A. Bertrand. No. 1,401,753; Dec. 27.
Receptacle-filling machine, Automatic. E. H. Hartman. No. 1,401,401; Dec. 27.
Reed in-drawer, Metallic. W. Lewerenz. No. 1,401,159; Dec. 27.
Reflector. M. P. Brogan. No. 1,401,570; Dec. 27.
Resilient wheel. C. Seitzeyer. No. 1,401,431; Dec. 27.
Resistance unit. L. Kobler. No. 1,401,477; Dec. 27.
Resin and product thereof, Modifying. G. W. Miles. No. 1,401,848; Dec. 27.
Retort-stoking apparatus. S. W. Warner. No. 1,401,295; Dec. 27.
Rifle, Adjustable rear sight for. G. S. Lewis. No. 1,401,617; Dec. 27.
Rim. L. Lynch. No. 1,401,564; Dec. 27.
Rim, Demountable. F. D. Meyer. No. 1,401,450; Dec. 27.
Rim, Sectional demountable. J. G. Kennaugh. No. 1,401,542; Dec. 27.
Ring: *See*—
Piston-ring.
Road-drag. H. A. Larson. No. 1,401,814; Dec. 27.
Rolling-mills, Gear drive for. L. Iversen. No. 1,401,200; Dec. 27.
Rolling-mills, Stripper for. P. C. Goldsmith. No. 1,401,778; Dec. 27.
Rolling, barrels, boxes, &c., Apparatus for handling rolls of. A. E. F. Moore. No. 1,401,429; Dec. 27.
Rotary engine. L. V. Johnson. No. 1,401,386; Dec. 27.
Rubber and fiber, Method and apparatus for separating. C. W. Kohler, H. A. Hoffman, and W. B. Freeman. No. 1,401,795; Dec. 27.
Rubber articles, Process and apparatus for making hollow. H. R. Stratford and E. Schwarz. No. 1,401,367; Dec. 27.
Rubber hose and coiling, Coil of. A. M. Griffin. No. 1,401,904; Dec. 27.
Rubber mat. W. Kelleher. No. 1,401,768; Dec. 27.
Rudder-brake. C. W. A. Taylor. No. 1,401,290; Dec. 27.
Sash-holding device. M. B. Pallch. No. 1,401,723; Dec. 27.
Safe support, Provision for. A. Haluska. No. 1,401,775; Dec. 27.
Safety device. W. J. Burke. No. 1,401,874; Dec. 27.
Sales-slip. E. P. Packard. No. 1,401,812; Dec. 27.
Sash-weight. G. H. Gould. No. 1,401,441; Dec. 27.
Saw. H. Forde. No. 1,401,529; Dec. 27.
Saw-gage. V. Royle. No. 1,401,560; Dec. 27.
Saw-grinding machine. J. P. Hedstrom. No. 1,401,697; Dec. 27.
Saw multiple and rod-cutting machine, Gang-. S. Richard, Jr. No. 1,401,363; Dec. 27.
Saw-swage. J. P. Hedstrom. No. 1,401,694; Dec. 27.
Saw-tooth shaper. J. P. Hedstrom. No. 1,401,695; Dec. 27.
Scale. L. T. Johnson. No. 1,401,704; Dec. 27.
Seal. W. K. Edgar. No. 1,401,838; Dec. 27.
Seesaw. J. G. Haugh. No. 1,401,906; Dec. 27.
Seining apparatus for treating. E. F. Overton. No. 1,401,182; Dec. 27.
Shearing machines, M. Schiller. No. 1,401,851; Dec. 27.
Sewing machine, Filled-sack. I. F. Webb. No. 1,401,396; Dec. 27.
Sewing machines, Hemstitch attachment for. W. L. Pierce. No. 1,401,720; Dec. 27.
Sewing machines, Thread-covering mechanism for. A. H. De Vos. No. 1,401,402; Dec. 27.
Shakers, Automatic feeding means for. P. Sterling. No. 1,401,870; Dec. 27.
Sharpener, Phonograph-needle. A. W. Wahlin. No. 1,401,218; Dec. 27.
Sheep-holding device. E. H. Cross. No. 1,401,586; Dec. 27.
Shell, Vibrating. C. A. Bailey. No. 1,401,898; Dec. 27.
Shoe or floor receiver and sag-producer. L. M. Myers. No. 1,401,749; Dec. 27.
Skid, Wooden. W. T. Donnelly. No. 1,401,409; Dec. 27.
Skid's davit. C. H. Odell. No. 1,401,519; Dec. 27.
Skirt. J. S. Pendleton. No. 1,401,725; Dec. 27.
Slide-rack. F. L. Forquett. No. 1,401,566; Dec. 27.
Smoke Matting. W. Hubbard. No. 1,401,208; Dec. 27.
Sharpener's tool. W. Berger and C. Blaschke. No. 1,401,405; Dec. 27.
Sleeve, Hopper-feed. Sergeant for use on. S. S. MacDonald and E. E. Bevan. No. 1,401,504; Dec. 27.
Slitter Fixer. J. H. Dean. No. 1,401,142; Dec. 27.
Slot Electric. R. W. Brookhill. No. 1,401,588; Dec. 27.
Slot Keeps Advertising. W. S. Whitsell. No. 1,401,807; Dec. 27.
Slot-stopper. A. H. E. Beckman. No. 1,401,646; Dec. 27.
Smelt. M. O. Clancy. No. 1,401,621; Dec. 27.
Smelt-blocking mechanism. M. O. Clancy. No. 1,401,614; Dec. 27.
Smelting-furnace. M. O. Clancy. No. 1,401,615; Dec. 27.
Smelting-process. M. O. Clancy. No. 1,401,617; Dec. 27.
Smelt supporting and rolling means. M. O. Clancy. No. 1,401,622; Dec. 27.
Smelt-washing mechanism. M. O. Clancy. No. 1,401,616; Dec. 27.
Smelt, Washing. M. O. Clancy. No. 1,401,618; Dec. 27.
Snap-chain. A. Weiss. No. 1,401,452; Dec. 27.
Sprinkler, Air. Rider construction for. J. Grivas. No. 1,401,209; Dec. 27.
Soap-dispenser. C. W. Mojack. No. 1,401,575; Dec. 27.
Spring-coupling. W. C. Knapp and O. T. Lockmon. No. 1,401,880; Dec. 27.
Spring, Tool-head for. G. F. Maib. No. 1,401,716; Dec. 27.
Snowplow. J. Hill. No. 1,401,295; Dec. 27.
Soldering-iron. H. Wood. No. 1,401,754; Dec. 27.
Soldering-furnace. J. Blake. No. 1,401,514; Dec. 27.
Soldering-iron. C. A. Brown. No. 1,401,671; Dec. 27.
Sound-box diaphragm. P. B. Dulcey. No. 1,401,142; Dec. 27.
Spark-gap, Contact for. A. E. Anderson. No. 1,401,231; Dec. 27.
Spark-plug. P. V. Carpenter. No. 1,401,070; Dec. 27.
Spark-plug. A. F. and V. D. Cullen. No. 1,401,580; Dec. 27.
Spark-plug. M. J. Di Giacomo. No. 1,401,121; Dec. 27.
Spark-plug. J. J. Lesser, Jr. No. 1,401,799; Dec. 27.
Speed-table. L. L. Kelley. No. 1,401,793; Dec. 27.
Spindle-lubricator. D. M. Davis. No. 1,401,596; Dec. 27.
Spindle. J. H. Steinfeld. No. 1,401,448; Dec. 27.
Spirit-level-indicator. S. Mattson. No. 1,401,776; Dec. 27.
Spinning or twisting machine, Ring. J. C. Foster. No. 1,401,729; Dec. 27.
Spray-head. A. C. Miller and E. H. Perry. No. 1,401,176; Dec. 27.
Spreader and roller, Combined. H. C. Foster. No. 1,401,140; Dec. 27.
Spring-retarding device. E. V. Hartford. No. 1,401,252; Dec. 27.
Spring-treadoning mechanism. E. E. Weaver. No. 1,401,842; Dec. 27.
Stamp, Combined hand and self-inking. A. A. Pannier. No. 1,401,446; Dec. 27.
Stamping-machine. M. Forde and L. P. Southwick. (Reissue.) No. 15,264; Dec. 27.
Stamping-press. G. H. Jaquery. No. 1,401,466; Dec. 27.
Stanchion-control mechanism. W. Mitchell. No. 1,401,415; Dec. 27.
Star Setter and identifier. G. T. Rede. No. 1,401,446; Dec. 27.
Staybolt structure. J. R. Flannery and S. I. Dodds. Nos. 1,401,662-4; Dec. 27.
Steam-boiler furnace and operating the same. H. C. Heaton. No. 1,401,233; Dec. 27.
Steam-engine. J. W. Black. Nos. 1,401,866-9; Dec. 27.
Steel, Alloy. O. W. Bergeut and J. W. Weltenstorn. Nos. 1,401,672-6; Dec. 27.
Steelmaker. H. J. Holker. No. 1,401,870; Dec. 27.
Stenciller, Extension and combination. W. Houghtaling. No. 1,401,257; Dec. 27.
Stills, Apparatus for receiving coke from. C. B. Hoerger. No. 1,401,310; Dec. 27.
Stopper: *See*—
Washbowl-stopper.
Stone-cleaner. H. Cmanyl. No. 1,401,876; Dec. 27.
Stocker-rod coupling. J. C. Axtell. No. 1,401,302; Dec. 27.
Stop, Protective. J. E. Dade. No. 1,401,677; Dec. 27.
Stove, Mixing. A. T. Drachenberg. No. 1,401,501; Dec. 27.
Surveying instrument. F. E. Vaughan. No. 1,401,290; Dec. 27.
Swift, Adjustable. A. E. Anderson. No. 1,401,125; Dec. 27.
Swing, Child's. J. A. Eberle. No. 1,401,391; Dec. 27.
Switch: *See*—
Electric switch. Railway-switch.
Table: *See*—
Adjustable table. Cutting-table.
Traveling-table. Sewing-table.
Tag holder and illuminator. F. W. Reimann. No. 1,401,731; Dec. 27.

Tag-locking device. A. Bodie. No. 1,401,235; Dec. 27.
Tailoring machine. R. T. Newland and M. Merriam. No. 1,401,377; Dec. 27.
Tamper. G. S. Peterkin. No. 1,401,258; Dec. 27.
Tap and die holder, Reversible. E. E. Drowns. No. 1,401,384; Dec. 27.
Tape-measurer. D. Murray. No. 1,401,917; Dec. 27.
Telephone-exchange system. G. A. W. Landell. No. 1,401,544; Dec. 27.
Telephone-receiver. G. Balsamoault. No. 1,401,753; Dec. 27.
Telephone-transmitter. G. Bousanault. No. 1,401,754; Dec. 27.
Testing device. J. E. Mather and C. T. Allcutt. No. 1,401,627; Dec. 27.
Thread and implement holder. G. M. Meyers, Jr. No. 1,401,811; Dec. 27.
Threads, Production of. B. Borszykowski. No. 1,401,943; Dec. 27.
Threshing-machines, Dust-conveying attachment for. J. Kozenka. No. 1,401,710; Dec. 27.
Ticket-holder. P. Allard. No. 1,401,120; Dec. 27.
Tie and rail holder. J. Ashby. No. 1,401,935; Dec. 27.
Tire. W. G. Formick. No. 1,401,148; Dec. 27.
Tire-armor. W. H. Aldridge. No. 1,401,501; Dec. 27.
Tire, Automobile. A. G. Kuhn. No. 1,401,610; Dec. 27.
Tire, Non-puncturable and non-collapsible pneumatic inside. O. Yates. No. 1,401,507; Dec. 27.
Tire, Pneumatic. G. Michaelsen and J. J. Roth, Sr. No. 1,401,465; Dec. 27.
Tire, Pneumatic. L. R. Poschadel. No. 1,401,814; Dec. 27.
Tire-valves, Dust-cap for. H. P. Kraft. No. 1,401,541; Dec. 27.
Tobacco-display case. F. J. Squire. No. 1,401,825; Dec. 27.
Tobacco-leaf crusher. S. Pella. No. 1,401,438; Dec. 27.
Tobacco-pipe. R. T. Wright. No. 1,401,226; Dec. 27.
Toe form, Box-. A. J. Ryan. No. 1,401,365; Dec. 27.
Tongs, Ice. J. G. Heidt. No. 1,401,777; Dec. 27.
Topographical recorder. D. S. de Lavaud. No. 1,401,242; Dec. 27.
Torpedo, Automobile. W. H. Sodeau and V. P. Francombe. No. 1,401,288; Dec. 27.
Torpedo, Hunting automobile. E. Meitner and A. C. Raby. No. 1,401,628; Dec. 27.
Toy spinning-top. J. Popper. No. 1,401,813; Dec. 27.
Toy, Wheeled. F. Svoboda. No. 1,401,373; Dec. 27.
Trace-carrier. A. E. Mendenhall. No. 1,401,847; Dec. 27.
Traction machine. J. Mader. No. 1,401,625; Dec. 27.
Traction-support. B. C. Gentry. No. 1,401,689; Dec. 27.
Tractor. E. K. Standish. No. 1,401,289; Dec. 27.
Tractor, Farm-. J. M. Meyers. No. 1,401,629; Dec. 27.
Tractor structure. J. H. Sissel. No. 1,401,287; Dec. 27.
Tractors, Wheel of motor-. H. and J. P. Garner. No. 1,401,530; Dec. 27.
Trailer. H. Kapferer. No. 1,401,786; Dec. 27.
Train-stopping apparatus, Automatic. O. Bonaccorso. No. 1,401,755; Dec. 27.
Transfer-table-driving mechanism. M. G. Hilpert. No. 1,401,234; Dec. 27.
Tray. J. A. Thompson. No. 1,401,209; Dec. 27.
Tree-holder, Portable. P. J. Ihrig. No. 1,401,250; Dec. 27.
Trees, &c., Holder for Christmas. W. Dicks. No. 1,401,144; Dec. 27.
Trolley-hanger. W. Schaake. No. 1,401,650; Dec. 27.
Trolley-wheel. S. S. Rigby. No. 1,401,495; Dec. 27.
Trough and support, Eaves-. J. F. Hyre. No. 1,401,703; Dec. 27.
Trunk and trailer coupling. J. W. Buller. No. 1,401,873; Dec. 27.
Truck, Mining-machine. F. Cartlidge. No. 1,401,759; Dec. 27.
Trucks, Accessory for motor-. C. S. Weimar. No. 1,401,843; Dec. 27.
Trucks, &c., Tilting body for. D. E. Le Force. No. 1,401,616; Dec. 27.
Trunk, Automobile-. J. J. Parmenter. No. 1,401,183; Dec. 27.
Trunk-fixture. G. H. Wheary. No. 1,401,210; Dec. 27.
Tubes, Mounting for vacuum-. E. M. Allen. No. 1,401,121; Dec. 27.
Turbine and turbine-wheel. L. A. Darling. No. 1,401,321; Dec. 27.
Typewriter-type, Reversible. A. Hering. No. 1,401,471; Dec. 27.
Typewriting-machines, specially for writing on ruled paper, Device to graduate the distance of lines of. R. Seats. No. 1,401,643; Dec. 27.
Underfeed furnace. W. E. De Voe. No. 1,401,888; Dec. 27.
Valve. Z. Littman. No. 1,401,619; Dec. 27.
Valve. G. Parkinson and J. Davidson. No. 1,401,637; Dec. 27.
Valve. E. Ravaz and A. Fillon. No. 1,401,643; Dec. 27.
Valve. F. T. Roettinger. No. 1,401,923; Dec. 27.
Valve-cage, Jig for drilling. M. M. Kranz. No. 1,401,202; Dec. 27.
Valve, Faucet and the like. W. R. Comings. No. 1,401,479; Dec. 27.
Valve-grinder. A. E. Carlson. No. 1,401,391; Dec. 27.
Valve-grinders, Operating device for. R. E. Clark. No. 1,401,814; Dec. 27.
Valve, Multiple ball-. F. Wittenmeier. No. 1,401,223; Dec. 27.
Valve-spring-compressing tool. H. W. Paine. No. 1,401,920; Dec. 27.
Valve-tappet. F. H. Bellmore. No. 1,401,234; Dec. 27.
Valve, Volume-regulating. J. L. Fitts. No. 1,401,468; Dec. 27.
Vehicle-buffer. W. H. Manning. No. 1,401,269; Dec. 27.
Vehicle drive axle. A. P. Brush. Nos. 1,401,580-81; Dec. 27.
Vehicle-tops, Window-sash tightener for. D. R. Jenkins. No. 1,401,606; Dec. 27.
Vehicle trailed power, Motor-. H. Wilcox. No. 1,401,661; Dec. 27.
Vehicle-wheel. A. P. Brush and O. M. Nacker. No. 1,401,582; Dec. 27.
Vehicle-wheel. C. H. Larson. No. 1,401,414; Dec. 27.
Vehicle-wheel. R. S. Wilcox. No. 1,401,845; Dec. 27.
Vehicle wheel and tire. D. B. and C. W. Spencer. No. 1,401,450; Dec. 27.
Vehicle-wheels, Rim for-. W. F. Traves. No. 1,401,377; Dec. 27.
Vehicles, Anchoring device for wheeled. W. W. Blakely. No. 1,401,389; Dec. 27.
Vehicles, Auxiliary brake for motor-. H. B. Frey. No. 1,401,597; Dec. 27.
Vehicles, Device for holding ice upon the running-boards of. W. D. Barton. No. 1,401,128; Dec. 27.
Vehicles, Driving and steering mechanism for motor-. R. H. White. No. 1,401,221; Dec. 27.
Vehicles, Pocket attachment for. J. M. White. No. 1,401,660; Dec. 27.
Vehicle, Pulling attachment for motor-. E. Ludescher. No. 1,401,263; Dec. 27.
Vehicles, Safety appliance for. C. Halpern. No. 1,401,774; Dec. 27.
Vehicles, Spring-suspension for. E. E. Weaver. No. 1,401,841; Dec. 27.
Vehicles, Spring-suspension mechanism for. E. E. Weaver. No. 1,401,840; Dec. 27.
Vending-machine, Coin-controlled. H. Giles. No. 1,401,533; Dec. 27.
Vessel, Cargo-. H. R. McClelland and J. McLean. No. 1,401,623; Dec. 27.
Wagon and sled, Coaster. W. K. Porter. No. 1,401,640; Dec. 27.
Walls, Heating. A. Roberts. No. 1,401,497; Dec. 27.
Walls, Window for fabric. J. H. Fletcher. No. 1,401,528; Dec. 27.
Warping and beaming machine. G. Sipp. No. 1,401,655; Dec. 27.
Washbowl-stopper. M. C. Hatton. No. 1,401,776; Dec. 27.
Water, Apparatus for producing distilled. B. Bleicken. No. 1,401,578; Dec. 27.
Water or muck baller. P. R. Gawthrop, Sr. No. 1,401,903; Dec. 27.
Waterer, Poultry-. E. C. Mellick. No. 1,401,424; Dec. 27.
Waterproof composition. L. Kirschbraum. No. 1,401,701; Dec. 27.
Waterproof printing fluid, Invisible. H. P. Pearson. No. 1,401,857; Dec. 27.
Weather-strip. C. M. Jones. No. 1,401,409; Dec. 27.
Well-washing device. F. E. Crotto. No. 1,401,464; Dec. 27.
Wells, Drilling. W. E. Nolan. No. 1,401,488; Dec. 27.
Wheel: *See*—
Demountable automatic Resilient wheel.
wheel. Trolley-wheel.
Inner cushioned wheel. Vehicle-wheel.
Wheel, F. L. Minnick. No. 1,401,630; Dec. 27.
Wheel-chock device. J. C. Monahan. No. 1,401,350; Dec. 27.
Wheel-locking device. H. Nicodemus. No. 1,401,721; Dec. 27.
Wheel-mounting. C. A. Baumler. No. 1,401,939; Dec. 27.
Wheel spindle, Vehicle-. M. Fisher. No. 1,401,900; Dec. 27.
Wind-deflector, Side. H. and L. Benzer. No. 1,401,942; Dec. 27.
Window-fastener. E. M. Brooks. No. 1,401,041; Dec. 27.
Window provision-box. M. Rachlin. No. 1,401,816; Dec. 27.
Wire netting, Apparatus for the manufacture of. F. and F. Riviere. No. 1,401,557; Dec. 27.
Wire-rope machine. A. E. Anderson. No. 1,401,122; Dec. 27.
Wire-stretcher. J. H. Ryals. No. 1,401,739; Dec. 27.
Woodworking, Joining-equaliser for. W. J. Karmire. No. 1,401,787; Dec. 27.
Work-positioning mechanism. G. Goddu and F. L. Mackenzie. No. 1,401,248; Dec. 27.
Work-rest. W. A. Blackburn. No. 1,401,131; Dec. 27.
Wrench: *See*—
Combination pipe-wrench.
Wrench. F. K. Lawrence. No. 1,401,615; Dec. 27.
Wrench. J. R. Mitchell. No. 1,401,484; Dec. 27.
Wrench. O. F. Roberts. No. 1,401,817; Dec. 27.
Wringer: *See*—
Clothes-wringer.
Wringer Clothes-. W. H. Meyer. No. 1,401,805; Dec. 27.
Yokes, Manufacture of drawbar. H. T. Anderson. No. 1,401,748; Dec. 27.
Zirconium and iron, Alloying. R. H. McKee. Nos. 1,401,266-7; Dec. 27.

ALPHABETICAL LIST OF DESIGNS.

Advertising device and revolving stand, Combined. B. P. Burns. No. 60,095; Dec. 27.
Basket. L. Yen. No. 60,110; Dec. 27.
Bottle. E. D. Baker. No. 60,091; Dec. 27.
Bottle. A. P. Kaminsky. No. 60,098; Dec. 27.
Brush. J. F. and M. O. Quimby. No. 60,107; Dec. 27.
Cabinet and standard for X-ray apparatus, Combined. O. H. and A. F. Pieper. No. 60,104; Dec. 27.
Cigar-cutter and ash-opener, Combination. W. Frohteiler. No. 60,089; Dec. 27.
Cleaner for erasers, Vacuum. W. J. Hayes, Jr. No. 60,093; Dec. 27.
Coffin. A. Haladey and J. Wróbel. No. 60,092; Dec. 27.
Doll, Rag. M. Kassenau. No. 60,097; Dec. 27.
Garter. T. Cahn. No. 60,094; Dec. 27.
Heating apparatus. F. B. Howell. Nos. 60,085–6; Dec. 27.
Hen-house, Individual. L. K. Ellis. No. 60,087; Dec. 27.
Indicator. A. B. Christopher. No. 60,085; Dec. 27.
Ladle and strainer, Combination. S. Rosen. No. 60,109; Dec. 27.
Lens or similar article. V. A. Quagliano. No. 60,108; Dec. 27.
Lighting-fixture arm. G. Westphal. Nos. 60,116–8; Dec. 27.
Liquid-dispensing apparatus, Portable. T. H. Forrest. No. 60,090; Dec. 27.
Mop-head. M. P. and J. McNaughton. No. 60,100; Dec. 27.
Motorcycle-trunk. F. J. Rezsalka. No. 60,106; Dec. 27.
Oil-burner. E. W. Mahan. No. 60,102; Dec. 27.
Oil-gun reservoir. B. H. Skelly. No. 60,112; Dec. 27.
Pinwheel. W. C. Heindl. No. 60,094; Dec. 27.
Shovel. P. A. Vasutis. No. 60,115; Dec. 27.
Spoon, fork, or similar article, Handle for. F. W. Kuns. No. 60,100; Dec. 27.
Stapling-machine frame. F. Polser. No. 60,105; Dec. 27.
Table cover, Oil-cloth. C. Bastow. No. 60,082; Dec. 27.
Toy, Rocking duck nursery. H. P. Sigwalt. No. 60,111; Dec. 27.
Vending-machine casing. F. Q. Rast. No. 60,120; Dec. 27.
Weather-forecasting device. R. Lancaster. No. 60,101; Dec. 27.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Adhesives, Certain. R. M. Riddingshead Co. No. 149,948; Dec. 27.
Alcohol, Ethyl. U. S. Industrial Alcohol Co. No. 150,148; Dec. 27.
Alcohol, Non-beverage grain. Geo. Wiedemann Company. No. 149,178; Dec. 27.
Ammunition-vehicle. J. J. Stock. No. 150,133; Dec. 27.
Anesthetic for use in painless extraction of teeth and in general surgery, Local. Dr. O. W. Dress & Dr. L. O. Orem. No. 152,341; Dec. 27.
Antiseptic, germicide, and medicinal treatment for pyorrhea. J. D. Mason. No. 150,091; Dec. 27.
Antiseptic papers and cigarettes not containing tobacco. Lundy, Wilcox & Company. No. 149,944; Dec. 27.
Attrition mills and coffee shellers. Engelberg Huller Company. No. 149,914; Dec. 27.
Automobile top dressing. Lowe Brothers Company. No. 150,094; Dec. 27.
Automobile and furniture polish. J. W. Olts. No. 150,036; Dec. 27.
Automobile, furniture, &c., polish. L. B. Wade Co. No. 150,158; Dec. 27.
Axles for pleasure-automobiles and automobile-trucks. Vulcan Motor Axle Company. No. 150,155; Dec. 27.
Bacon. John Morrell & Company. No. 150,016; Dec. 27.
Baker's machinery. Read Machinery Co. No. 150,070; Dec. 27.
Ball, Game. L. J. Rober. Nos. 150,078–9; Dec. 27.
Baseballs. San Antonio Drug Co. No. 150,097; Dec. 27.
Baskets. Wabash Basket Company. No. 150,157; Dec. 27.
Bats, Baseball. Hilton Collins Co. No. 149,944; Dec. 27.
Batteries, Dry-cell. Fronts Battery & Carbon Co. No. 149,923; Dec. 27.
Bearings. W. L. Sandage. No. 150,098; Dec. 27.
Bed-springs. Henry Schomer Company. No. 150,102; Dec. 27.
Bed-springs, mattresses, and pillows. Charles P. Rogers & Co. No. 150,083; Dec. 27.
Belting, Dress. Russell Manufacturing Co. No. 150,090; Dec. 27.
Beverage and syrup for making same, Non-alcoholic, malt-less, artificial grape. P. E. Barnett. No. 149,835; Dec. 27.
Beverage, Malt-less, non-alcoholic. Queen City Bottling Company. No. 150,069; Dec. 27.
Beverage, Non-alcoholic. G. U. Lipshuich. No. 149,988; Dec. 27.
Beverage, Non-alcoholic. W. T. Wagner's Sons Co. No. 150,159; Dec. 27.
Beverage, Non-alcoholic, non-cereal, malt-less. M. Brock and A. B. Praetsch. No. 149,852; Dec. 27.
Beverage, Non-alcoholic, non-cereal, malt-less. G. N. Prokos. No. 150,096; Dec. 27.
Beverage, Non-intoxicating, malt-less, non-cereal. Pearl City Fruit Company. No. 150,048; Dec. 27.
Beverage, Non-intoxicating, cereal, malt. D. G. Yuengling & Son. No. 150,152; Dec. 27.
Beverages and syrups for making, Non-alcoholic, non-cereal, malt-less. H. H. Nelson. No. 150,026; Dec. 27.
Beverages and syrups for making same, Non-alcoholic, non-cereal, malt-less. Orange Surprise Syrup & Bottling Co. No. 150,037; Dec. 27.
Beverages and syrups for making, Non-alcoholic, non-cereal, malt-less. V. O. Robertson. No. 150,080; Dec. 27.
Beverages and syrups for making same, Acme Beverage-Extract Co. No. 149,810; Dec. 27.
Beverages and syrups for making same. Evers-Rehm Co. No. 149,916; Dec. 27.
Beverages and syrups for making same. A. F. Kloss Co. No. 149,972; Dec. 27.
Beverages, Malt-less, non-alcoholic, non-cereal. Oregon Growers Cooperative Assn. Nos. 150,038–9; Dec. 27.
Beverages, Malt-less, non-cereal. Los Angeles Ice & Cold Storage Company. No. 149,992; Dec. 27.
Beverages, Non-alcoholic, non-cereal, malt-less. B. F. Ruth. No. 150,091; Dec. 27.
Beverages, Non-alcoholic, non-cereal, malt-less. Service Corp. Nos. 150,104–5; Dec. 27.
Blue, Laundry. J. L. Prescott Company. No. 150,063; Dec. 27.
Bluing and ammonia. Thoro Products Mfg. Co. No. 150,141; Dec. 27.
Blouse-suits and blouses, Ladies' and children's. Straus, Royer & Straus. No. 150,135; Dec. 27.
Boots and shoes. Stacy-Adams Company. No. 150,119; Dec. 27.
Boots, shoes, and slippers of leather, felt, cloth, rubber, &c. Thomas G. Plant Company. No. 150,055; Dec. 27.
Bread. National Baking Company. No. 150,022; Dec. 27.
Bread. Ward Baking Company. No. 150,163; Dec. 27.
Bread, biscuits, and cakes. H. Stahl. No. 150,120; Dec. 27.
Bricks and drainage-tiles. Acme Brick Company. No. 149,811; Dec. 27.
Brooms. Richmond Broom Company. No. 150,077; Dec. 27.
Buttermilk, Condensed. Commercial Creamery Co. No. 149,889; Dec. 27.
Calculi, Urinalysis. Du Bois Laboratories. No. 149,903; Dec. 27.
Cake. Ward Baking Company. No. 150,164; Dec. 27.
Cake, Loaf-. Grocers Baking Company. No. 149,935; Dec. 27.
Cambrics in the piece. Berkeley Company. No. 149,839; Dec. 27.
Camphor, Spirits of. Wolfe-Farrer Co. No. 150,184; Dec. 27.
Candles. Loft Incorporated. No. 149,989; Dec. 27.
Candy. Candy Products Corporation. No. 149,866; Dec. 27.
Candy. Continental Candy Corporation. No. 149,890; Dec. 27.
Candy. Gerber Company, The. No. 149,927; Dec. 27.
Candy. Wandell Chocolate Company. No. 150,182; Dec. 27.
Canned fish. J. V. Giaconi & Co. No. 149,928; Dec. 27.
Canned fruits and vegetables. M. Schucki. No. 150,103; Dec. 27.
Canned pears and tomatoes, oranges, &c. California Vegetable Union, Inc. No. 149,865; Dec. 27.
Card game. P. E. Hurst. No. 149,953; Dec. 27.
Cartoons. R. J. Bleger. No. 149,842; Dec. 27.
Casting battery parts, Molds for. E. J. Kukac. No. 149,899; Dec. 27.
Cement, Adhesive. H. A. Cook. No. 149,892; Dec. 27.
Cement, Adhesive. J. Goldstein. No. 149,931; Dec. 27.
Cement, Mending-. Hemmerdinger, L., & Co. No. 149,941; Dec. 27.
Cement, Patching-. P. C. Plasterer. No. 150,057; Dec. 27.
Cheese. C. Zuercher. No. 150,190; Dec. 27.
Chemical compounds. J. H. Longshore. No. 149,990; Dec. 27.
Chemical, medicinal, and pharmaceutical preparations. Cooper & Cooper. No. 149,893; Dec. 27.
Chemical, medicinal, and toilet preparations, Certain. C. D. Smith Drug Co. No. 150,112; Dec. 27.
Chocolate in cake form. Bishop & Company. No. 149,845; Dec. 27.
Cigars. Estate of Joseph J. Schaefer. No. 150,206; Dec. 27.
Cigars, cigarettes, and manufactured tobacco. R. G. Sullivan Estate. No. 150,207; Dec. 27.
Cleaner-polish and restorative, Preservative. R. V. Lull. No. 149,993; Dec. 27.
Cleaning and polishing furniture, floors, &c., Polish for. Channell Chemical Company. Nos. 149,874–5; Dec. 27.
Cleaning preparation for silverware, glass, &c. Nuro Silver Co. No. 150,031; Dec. 27.
Cloths and fabrics in the piece, Certain. American Cellulose & Chemical Manufacturing Company. No. 149,817; Dec. 27.
Coal. D. E. McMillan & Bro. No. 149,996; Dec. 27.
Coaster-sleds. G. E. Pollock. No. 150,060; Dec. 27.
Coffee. J. Aron & Company. No. 149,823; Dec. 27.
Coffee, Roasted. Levin Store Co. No. 149,985; Dec. 27.
Coffees. Mohler Bros. Coffee Company. No. 150,011; Dec. 27.
Coffee. I. D. Richheimer. No. 150,076; Dec. 27.
Coffee. Vinson Coffee Company. No. 150,154; Dec. 27.
Coffee. Fred Wolferman Good Things to Eat Co. No. 150,185; Dec. 27.
Collets and certain thread-cutting tools. Union Twist Drill Company. No. 150,146; Dec. 27;
Colors, Coal-tar. Society of Chemical Industry in Basle. No. 150,116; Dec. 27.
Concrete-mixers. A. L. Frame. No. 149,924; Dec. 27.
Concrete mixers and distributing machines, &c. Koehring Machine Company. No. 150,203; Dec. 27.
Construction materials, Certain. A. E. H. Dussek. No. 149,908; Dec. 27.
Cotton-batting. Stearns & Foster Company. Nos. 150,126–32; Dec. 27.
Cotton fabrics in the piece. Howlett & Hockmeyer Co. No. 149,951; Dec. 27.
Cotton piece goods. Calico Printers' Association. No. 149,860; Dec. 27.
Cotton piece goods. Hinck & Muller. No. 149,945; Dec. 27.
Cotton piece goods. James F. White & Co. Nos. 150,160–71; Dec. 27.
Cotton, sewing-thread, and yarn, Spool-. The American Thread Company. No. 148,821–2; Dec. 27.
Cotton, silk, linen, and mixtures of cotton, silk, and linen. J. Miller Sons & Co. No. 150,008; Dec. 27.
Cough-drops. I. M. Krebs. No. 149,975; Dec. 27.
Crates, wood boxes, and cartons. Central Furniture Packing Company. No. 149,872; Dec. 27.
Cream, Vanishing. Harriet Hubbard Ayer. No. 149,829; Dec. 27.

Cutlery and table flat-ware and nutcrackers, Certain. Mappin & Webb. No. 149,999; Dec. 27.
Dates, Fresh. Van Dyk and Bowne. No. 150,121; Dec. 27.
Davenports, sofas, &c., Upholstered. S. Karpen & Bros. No. 149,907; Dec. 27.
Desks. Grand Furniture Company. No. 149,854; Dec. 27.
Desks. H. R. Langslow. No. 149,944; Dec. 27.
Disinfectants, Insecticides, and deodorants. Sanitas Company. Nos. 150,100–1; Dec. 27.
Dolls. Nottingham Hosiery Company. Nos. 150,088–9; Dec. 27.
Dolls, Bisque-headed. George Borgfeldt & Co. No. 149,849; Dec. 27.
Dolls, Mechanical. F. H. Meeker. No. 150,004; Dec. 27.
Drills, drill-sharpeners, drill-bits, and parts thereof. Reed-Denver Rock Drill Manufacturing Company. No. 149,898; Dec. 27.
Dyes. Newport Chemical Works. No. 150,037; Dec. 27.
Egg preservatives. K & G Laboratories Co. No. 149,949; Dec. 27.
Elastic braids. Narrow Fabric Co. No. 150,020; Dec. 27.
Elastic webbing. Hope Webbing Company. No. 149,900; Dec. 27.
Elastic webbing. Julius Wile Sons & Co. No. 150,170; Dec. 27.
Electric-lighting fixtures. R. C. Plant. No. 150,050; Dec. 27.
Engines and machinery, Certain. Westinghouse Electric & Manufacturing Company. No. 150,168; Dec. 27.
Envelops, Correspondence-. Central Ohio Paper Company. No. 150,193; Dec. 27.
Envelops, Correspondence-. National Checking Company. No. 150,023; Dec. 27.
Extract of hops and malt for preparing soft drinks. H. E. Leyendecker. No. 149,956; Dec. 27.
Feed, Crushed oyster-shell used as poultry. Carolina Crushed Shell Co. No. 149,943; Dec. 27.
Fertilizer-distributer. J. Bloe. No. 149,849; Dec. 27.
Fertilizers. American Agricultural Chemical Company. No. 149,918; Dec. 27.
Fertilizers. Coe-Mortimer Company. No. 149,981; Dec. 27.
Fertilizers. Fisheries Products Co. Inc. No. 149,921; Dec. 27.
Fertilizers. Michigan Humus & Chemical Company. No. 150,006; Dec. 27.
Fertilizers, &c. Lakeland Phosphate & Fertilizer Company. No. 149,983; Dec. 27.
Fire brick and tile. Laclede-Christy Clay Products Company. No. 149,982; Dec. 27.
Fire-extinguishers, Hand. Ideal Fire Extinguisher Co. No. 149,955; Dec. 27.
Fishing-lines, Trish reel. B. F. Gladding & Co. Nos. 150,200–1; Dec. 27.
Flour, Mixed wheat and corn. Ismert-Hincke Milling Company. No. 149,961; Dec. 27.
Flour, Wheat-. Wells Flour Milling Company. No. 150,166; Dec. 27.
Flour, Wheat-. Wichita Flour Mills Co. No. 150,174; Dec. 27.
Furfuramid chemical product as well as all its compounds. Rudolf Ricard Ahrendt & Cie. No. 150,113; Dec. 27.
Furniture, Household. Chamberlayne, Inc. No. 149,973; Dec. 27.
Game-board, game-indicator, game-counter, &c. E. Bruder. Nos. 149,855–6; Dec. 27.
Garment-hangers. Brager Bros. No. 149,851; Dec. 27.
Garments, Infants' sleeping-. Merit Baby Wear Company. No. 150,005; Dec. 27.
Gas-intake deflectors and gaskets, Combination-. M. B. Eaton. No. 149,909; Dec. 27.
Gas, Natural. J. C. Whitfield. No. 150,172; Dec. 27.
Ginger-ale, Bottled. C. H. Thom. No. 150,139; Dec. 27.
Glue and paste. Central Adhesive Company. No. 149,971; Dec. 27.
Golf-balls. Midland Rubber Co. Ltd. No. 150,007; Dec. 27.
Golf-clubs. S. Tousey. No. 150,143; Dec. 27.
Grape-juice. Rubyhill Vineyard Co. No. 150,085; Dec. 27.
Graphite, mica, and soapstone, Flake-. R. M. Hollingshead Co. No. 149,947; Dec. 27.
Greases, Lubricating-. Rusk Oil Co. of Philadelphia. No. 150,088; Dec. 27.
Gum, Chewing-. American Chicle Company. No. 149,918; Dec. 27.
Hacksaw-blades. Henry G. Thompson & Son Company. No. 150,140; Dec. 27.
Hair, Compound for promoting the growth of the. J. C. Rudd. No. 150,086; Dec. 27.
Hair-nets. S. Blechman & Sons. No. 149,846; Dec. 27.
Hair-nets. Empire Notion Co. No. 149,912; Dec. 27.
Hair-nets. National Trading Company. No. 150,024; Dec. 27.
Hair-nets. Samstag & Hilder Bros. No. 150,096; Dec. 27.
Hair-producer. M. C. Porter. No. 150,061; Dec. 27.
Hams, bacon, and lard. Patrick-Young Co. No. 150,047; Dec. 27.
Heels and tread-lifts therefor, Metal. Cinderella Heel Corporation. No. 149,880; Dec. 27.
Household tools, Certain. Wickwire Spencer Steel Corporation. No. 150,175; Dec. 27.
Index and bristol boards. Whiting Paper Company. No. 150,173; Dec. 27.
Insecticides, germicides, and related products. Charles H. Auerbach and Roy P. Auerbach. No. 149,826; Dec. 27.
Inner-tubes, Liquid. John Paterson & Co. No. 150,046; Dec. 27.
Knives and forks, Handles for. Mappin & Webb. No. 150,091; Dec. 27.
Lamp sockets and receptacles, Electric. Bryant Electric Company. No. 149,957; Dec. 27.
Linen, hemp, silk, wool, and worsted piece goods, carpets, &c. Morton Sundour Fabrics Ltd. No. 150,015; Dec. 27.
Liniment. J. W. Materski. No. 150,014; Dec. 27.
Liniment. A. Szabo. No. 150,137; Dec. 27.
Liquid compound for toilet use. John Paterson & Co. No. 150,045; Dec. 27.
Lye. Stonewall Corporation. No. 150,124; Dec. 27.
Macaroni. Atlantic Macaroni Co. No. 149,824; Dec. 27.
Macaroni. Lopez & Co. No. 149,901; Dec. 27.
Machines and tools Certain. Hibbard, Spencer, Bartlett & Co. No. 149,943; Dec. 27.
Magazine publications, Monthly. Buffalo Society of Natural Sciences. No. 149,924; Dec. 27.
Malt extract. Adam Scheidt Brewing Co. No. 149,812; Dec. 27.
Malt extracts. A. Wielick. No. 150,177; Dec. 27.
Malt-syrup. J. B. Yoor. No. 150,142; Dec. 27.
Marble cut to size, Polished marble, and cut stone. Georgia Marble Company. No. 150,209; Dec. 27.
Marshmallow Crème. Cosy Confectionery Company. No. 149,893; Dec. 27.
Mattresses. Capital Bedding Company. No. 149,887; Dec. 27.
Mattresses. Empire Mattress Company. Nos. 150,193–4; Dec. 27.
Mattresses. Sanitary Mattress Company. No. 150,009; Dec. 27.
Mattresses, Iron, and springs. Southern Spring Bed Co. No. 150,117; Dec. 27.
Medicinal and scalp preparation, Certain. P. B. Jones. No. 149,964; Dec. 27.
Medicinal preparation. J. Berlin. No. 149,840; Dec. 27.
Medicinal preparation. Chemische Fabrik vormals Madaus. No. 149,917; Dec. 27.
Medicinal preparations. V. Halper. No. 149,958; Dec. 27.
Medicinal preparation, Certain. Orium Company. No. 150,041; Dec. 27.
Medicinal preparation, Certain. B. L. Palleymah. No. 150,042; Dec. 27.
Medicinal preparation, Certain. York Drug Store. No. 150,149; Dec. 27.
Medicinal preparation for tonsilitis, sore throat, &c. L. L. Hoback. No. 149,946; Dec. 27.
Medicinal preparation for treatment of chills. C. Johnston. No. 149,985; Dec. 27.
Medicinal preparations, Certain. Charles Alfred Waldeck Company. No. 150,160; Dec. 27.
Medicinal preparations for affections of the eye. W. H. Rutland. No. 150,092; Dec. 27.
Medicine for cholera and roup. H. C. Ford. No. 149,922; Dec. 27.
Medicine for indigestion and dyspepsia. Redhill Mfg. Co. No. 150,071; Dec. 27.
Medicine, Prepared. K. Jinshithi. No. 149,968; Dec. 27.
Medicines, Proprietary. Arrow Chemical Company. No. 149,834; Dec. 27.
Metal castings. Ohio Steel Foundry Company. No. 150,084; Dec. 27.
Metal molds. Eppelsheimer & Co. No. 149,915; Dec. 27.
Metal working machinery and tools, Certain. E. W. Bliss Company. No. 149,847; Dec. 27.
Milk, Evaporated. Tri-State Milk Products Co. No. 150,144; Dec. 27.
Milk, ice-cream, Evaporated and powdered. United Dairy Association of Washington. No. 150,147; Dec. 27.
Minnow-nets. W. H. Reisner Manufacturing Company. No. 150,074; Dec. 27.
Mirrors, Hand-. Fiberloid Corporation. No. 149,919; Dec. 27.
Motor-hoists, Pneumatic. Ingersoll-Rand Company. No. 149,965; Dec. 27.
Oil, Flushing-. Standard Oil Company. No. 150,121; Dec. 27.
Oil, Mineral. Standard Oil Company. No. 150,122; Dec. 27.
Oil, Motor-. Rusk Oil Co. No. 150,089; Dec. 27.
Oil, Motor-lubricating. Rusk Oil Co. of Philadelphia, Pa. No. 150,087; Dec. 27.
Oil prepared and colored for use as a wood-stain, Pine-. Valdosta Retort Co. No. 150,149; Dec. 27.
Oils and greases, Lubricating. American Oil Corporation. No. 149,819; Dec. 27.
Oils and greases, Lubricating. J. Dunn, Son & Co. No. 149,906; Dec. 27.
Oils, Lubricating-. Doubiene Oil Co. No. 149,901; Dec. 27.
Ointment for skin eruptions. O. E. Palmer. No. 150,043; Dec. 27.
Ointment, Skin-. Vantex Chemical Company. No. 150,152; Dec. 27.
Oleomargarin. Pure Food Specialties Company. No. 150,067; Dec. 27.
Packing, Braided asbestos lubricated yarn. Stewart R. Brown Mfg. Co. Inc. No. 149,854; Dec. 27.
Packings, Leather. Horace G. Preston Company. No. 150,064; Dec. 27.
Paint and liquid waterproof coating. E. R. Oden. Nos. 150,052–3; Dec. 27.

Paint enamels. Patek Brothers. No. 150,044; Dec. 27.
Paint, Ready-mixed. Industrial Paint Company. No. 149,967; Dec. 27.
Paint, stains, varnishes, &c. California Paint Company. Nos. 149,952–3; Dec. 27.
Paints. Frank Bowne Company. No. 149,850; Dec. 27.
Paints. W. F. Witman. No. 150,143; Dec. 27.
Paints and painters' enamels, stains, fillers, putty, Paste and liquid. H. J. Kuhn. No. 149,977; Dec. 27.
Paints, Cold-water. Sherwin-Williams Company. No. 150,105; Dec. 27.
Paints, Enamel. Reming & Kuhnert Co. No. 150,075; Dec. 27.
Paints, finishes, enamels, japans, varnishes, &c. Sherwin-Williams Company. No. 150,107; Dec. 27.
Paints, varnishes, and paint enamels. Sailors and Lamb Company. No. 150,004; Dec. 27.
Paints, varnishes, and paint enamels. Mutual Paint Company. No. 150,019; Dec. 27.
Paints, varnishes, and stains. Sam Hunter Paint Co. No. 149,850; Dec. 27.
Painters' supplies, &c. Sailors and Lamb Company. No. 150,003; Dec. 27.
Paper bags, egg-cartons, merchandise-envelops. Continental Paper & Bag Mills. No. 149,891; Dec. 27.
Paper drinking-cups. American Paper Goods Co. No. 149,870; Dec. 27.
Paper, Waxed. Waxed Paper Company. No. 150,165; Dec. 27.
Papers and tubes for cigarettes, Cigarette-. C. E. Pfeiffer. No. 150,054; Dec. 27.
Paprika, Spanish. V. Rodrigues. Nos. 150,081–2; Dec. 27.
Paprika, Spanish. V. Rodrigues. No. 150,150; Dec. 27.
Peanut-brittle. J. R. Council. No. 149,895; Dec. 27.
Peelers, washers, slicers, exhaust-boxes, &c., Fruit and vegetable. Premier Machinery Company. No. 150,082; Dec. 27.
Percale dress goods in the piece. Carson, Pirie, Scott & Co. No. 149,890; Dec. 27.
Perfumes. Colgate & Company. Nos. 149,884–7; Dec. 27.
Perfumes, toilet waters, face-lotion, &c. M. M. Richard vve. Grenoville. No. 150,156; Dec. 27.
Petrolatums, mineral jellies and oils. Sherwood Petroleum Co. No. 150,109; Dec. 27.
Petroleum products. Standard Oil Company of New York. No. 150,123; Dec. 27.
Piano-benches. Tonk Manufacturing Co. No. 150,142; Dec. 27.
Pipe-thread and gasket compound. Kimball Company. No. 149,970; Dec. 27.
Piston rings. Spyroseal Manufacturing Company. No. 150,118; Dec. 27.
Pneumatic tools—namely, riveting-hammers. Chicago Pneumatic Tool Company. Nos. 149,878–9; Dec. 27.
Polish, Automobile. Navajo Laboratories. No. 150,025; Dec. 27.
Potato-chips. F. P. Gamer. No. 149,926; Dec. 27.
Potatoes, (bagged in their natural state.) Monmouth County Farmers Exchange. No. 150,013; Dec. 27.
Poultry food. G. F. Givan. No. 149,930; Dec. 27.
Powder and rouge compacts. Harriet Hubbard Ayer. Nos. 149,831–3; Dec. 27.
Powder, Insect-. Regal Manufacturing Co. No. 150,072; Dec. 27.
Powder, Toilet. Eli Lilly & Company. No. 149,910; Dec. 27.
Preparations for certain diseases. Winthrop Chemical Company. No. 150,182; Dec. 27.
Preparation for increasing the brilliancy and removing the yellowness from white or gray hair. Harriet Hubbard Ayer. No. 149,830; Dec. 27.
Preparation for removal of corns. A. M. Kronberger. No. 149,976; Dec. 27.
Preparation for the treatment of certain ailments. B. Kite. No. 149,971; Dec. 27.
Preparation for treatment of heaves. C. B. Baker. No. 149,834; Dec. 27.
Preparation for treatment of warts. Homeaid Products Co. No. 149,949; Dec. 27.
Preserved fruits, jams, jellies, pickles, &c., Certain. E. Kurzmann. No. 149,981; Dec. 27.
Presses and automatic drop-lifters, Drop-. Birmingham Iron Foundry. No. 149,844; Dec. 27.
Printing equipment, Cleaner for removing dry and wet ink from. Print Aid Company. No. 150,205; Dec. 27.
Publication-title. Hendler Creamery Company. No. 149,942; Dec. 27.
Pumps and parts thereof. Geo. D. Roper Corporation. No. 150,084; Dec. 27.
Purses and pocketbooks. Cartier, Inc. No. 149,870; Dec. 27.
Razors. John Engstrom, Jr., Co. No. 149,914; Dec. 27.
Remedy for piles. R. N. Jones. No. 149,965; Dec. 27.
Remedy, Headache and neuralgia. H. M. Griffin. No. 149,934; Dec. 27.
Romper-cloths, piece goods. Walton N. Moore Dry Goods Co. No. 150,014; Dec. 27.
Root-beer. Independent Breweries Company. No. 149,956; Dec. 27.
Root-beer. Dr. Swett Root Beer Inc. No. 150,136; Dec. 27.
Rubber tires and tubes. Du Bois Rubber & Tube Company. Nos. 149,904–6; Dec. 27.
Rulings and platings. G. Sidenberg & Co. No. 150,111; Dec. 27.
Safety-pins. Penn Rivet Corporation. No. 150,050; Dec. 27.
Safety-pins. Penn Rivet Corporation. No. 150,052; Dec. 27.
Salve. J. Jankowski. No. 149,962; Dec. 27.
Salve for boils and carbuncles. J. H. Brodhead. No. 149,953; Dec. 27.
Salve for treatment of cancers and cancerous sores. A. L. Beall. No. 149,838; Dec. 27.
Scenery and window backgrounds, Theatrical. Service Studios. No. 150,106; Dec. 27.
Seasonings for improving soups, &c. Maggi Co. Nos. 149,997–8; Dec. 27.
Shade-cloth. Interstate Shade Cloth Co. No. 149,960; Dec. 27.
Shampoo. Wildroot Co. No. 150,178; Dec. 27.
Sheeting, sheets, pillow-cases, cotton. Miller & Hadley Company. No. 150,009; Dec. 27.
Shoe-polish. W. M. Gibbs. No. 149,929; Dec. 27.
Shoe polish, Leather. Frank Jackson Co. No. 150,202; Dec. 27.
Shoe-polishes. Shu-Milk Products Corporation. No. 150,110; Dec. 27.
Shotguns, pistols, rifles, &c. Auto-Ordnance Corporation. No. 149,828; Dec. 27.
Silks in the piece. I. Sacks & Sons. No. 150,093; Dec. 27.
Silver flat-ware, Certain German-. R. Wallace & Sons Mfg. Co. No. 150,161; Dec. 27.
Sink-fushers. W. G. Donald. No. 149,900; Dec. 27.
Skins, Fur. Alexandre Works. No. 149,813; Dec. 27.
Skylights. August Kubnia, Inc. No. 149,970; Dec. 27.
Snap-fasteners. Penn Rivet Corporation. No. 150,049; Dec. 27.
Snap-fasteners. Penn Rivet Corporation. No. 150,051; Dec. 27.
Soap. Fitzpatrick Bros. Nos. 150,195–9; Dec. 27.
Soap. J. Gutradt Company. No. 149,987; Dec. 27.
Soap. Kolynos Company. No. 149,974; Dec. 27.
Soap cleaner, soft-. J. Wilson. No. 150,181; Dec. 27.
Soap, Laundry. Western Soap Company. No. 150,167; Dec. 27.
Soap, Toilet. International Drug Company. No. 149,959; Dec. 27.
Soap, Toilet and shaving. Nathan & Cie. Laboratories Cadum. No. 150,021; Dec. 27.
Soaps. Colgate & Company. No. 149,888; Dec. 27.
Soaps. Colgate & Company. No. 150,192; Dec. 27.
Solder, copper, and tin, &c. Ellenwood & Doyle. No. 149,911; Dec. 27.
Soutache and shell braids, Mercerized, &c. Corona Braid Works. No. 149,894; Dec. 27.
Specific for rheumatism. Health Laboratories. No. 149,939; Dec. 27.
Specific for rheumatism. Health Laboratories. No. 149,940; Dec. 27.
Sprayers, Dust-. California Sprayer Company. No. 149,864; Dec. 27.
Steel billets, bars, forgings, and disks. Poldi Steel Corporation of America. No. 150,058; Dec. 27.
Stone-cutting machines. Pollard Machinery Company. No. 150,059; Dec. 27.
Suits and coats, Misses' and juniors'. Kanner, Marks & Traurig. No. 149,966; Dec. 27.
Table-linens, handkerchiefs, &c. Morton Sundour Fabrics Ld. No. 150,017; Dec. 27.
Tablets for indigestion, constipation, &c., Pepsin. Orium Company. No. 150,040; Dec. 27.
Tea and coffee. Chase & Sanborn. No. 149,876; Dec. 27.
Tire-fillers. N. W. Finch. No. 149,920; Dec. 27.
Tires, Vehicle-. Federal Rubber Company. Nos. 149,917–8; Dec. 27.
Toilet partitions, Metal. Hughes-Keenan Company. No. 149,962; Dec. 27.
Toilet preparation, Certain. E. L. Petersen. No. 150,053; Dec. 27.
Toilet preparation used as a face-pack. A. Knapp. No. 149,973; Dec. 27.
Toilet water and perfumes. Atlanta Barbers' Supply Co. No. 150,208; Dec. 27.
Tomatoes, Fresh. F. Biggio & Sons. No. 149,843; Dec. 27.
Tonic for diabetics. Vino Medical Co. No. 150,153; Dec. 27.
Tonic, Liver-. O. Mauaert. No. 150,002; Dec. 27.
Tonic, Medical. D. & D. Remedy Company. No. 149,897; Dec. 27.
Tonic, Nerve-. A. C. Woodley. No. 150,186; Dec. 27.
Tools and parts of machinery, Certain. Greenfield Tap and Die Corporation. No. 141,975; Dec. 27.
Toy coaster. Novelty Products Company. No. 150,030; Dec. 27.
Toy vehicles. A. Mecky Company. No. 150,003; Dec. 27.
Traffic-signals for vehicles. V. Oliver, Inc. No. 150,035; Dec. 27.
Turpentine substitute. Texas Company. No. 150,138; Dec. 27.
Typewriter-platens, Preparation for the reproduction and preservation of. F. S. Wilson. No. 150,180; Dec. 27.
Underwear, hosiery, &c. Robert Reis & Co. No. 150,073; Dec. 27.
Varnish, &c., Auto-. E. K. Lincoln. No. 149,967; Dec. 27.
Varnishes, stains, lacquers, &c. H. J. Kuhn. No. 149,978; Dec. 27.
Vegetable fiber. California Fibre Company. No. 149,861; Dec. 27.

Tobacco-leaves. Combination lifter and stand for. L. C. Beadle. No. 149,831; Dec. 27.
Vehicles, Name and license plates for motor. Autohome Plate Company. No. 149,827; Dec. 27.
Vehicles, Traffic signals for motor. J. D. Council. No. 149,876; Dec. 27.
Vending-machines. Congress Manufacturing Company. No. 149,883; Dec. 27.
Vitamins, preparations, nutro-tonics, &c. Society of Chemical Industry in Basle. Nos. 149,114–5; Dec. 27.
Vests in the piece, Cotton. Jacob S. Bernheimer & Bro. No. 149,841; Dec. 27.
Warmers, Hand-drawn carriage. M. E. Lynd. No. 149,886; Dec. 27.
Wall-finish, Interior. Atlas-it Mfg. Co. No. 149,915; Dec. 27.
Wall glazing and coloring, Interior. Atlas-it Mfg. Co. No. 149,814; Dec. 27.
Warming-plants, steam-boiler, &c. Morse-Boulger Company. No. 150,013; Dec. 27.
Water-bag journal-cushions. L. L. Dorticoumos. No. 149,859; Dec. 27.
Water, Natural mineral. State of New York. No. 150,128; Dec. 27.
Waterproof thread. Seattle Waterproofing Products Co. No. 150,122; Dec. 27.
Whips. Diamond Whip Company. No. 149,898; Dec. 27.
Wicks, smoke-guard. M. Mair. No. 150,012; Dec. 27.
Wicks, regulating. Dana Manufacturing Co. No. 149,907; Dec. 27.
Windshields, Water-deflecting dressing for. G. H. Peabody. No. 150,082; Dec. 27.
Wire rope. W. D. Forster Co. No. 150,187; Dec. 27.
Wood-polish. Parlane Drug Mfg. Co. No. 150,009; Dec. 27.
Woolen goods in the piece. J. A. Davis. No. 149,902; Dec. 27.
Woolen piece goods. Forstmann & Huffmann Company. No. 149,923; Dec. 27.
Woolen piece goods, suitings, and overcoating. F. C. Hoyt & Bass. No. 149,904; Dec. 27.

ALPHABETICAL LIST OF LABELS.

"A Baker Biscuit." (For Cheese Crackers.) Green and Green Company. No. 23,856; Dec. 27.
"Ariel Standard." (For Golf-Balls.) J. Grunfeld. No. 23,851; Dec. 27.
"B & B Baby Talc. (For Talcum Powder.) Bauer & Black. No. 23,849; Dec. 27.
"B. B. B. Burinie Mint Bismi." (For a Food Tonic for Cage-Birds.) B. L. Borcoli. No. 23,841; Dec. 27.
"Barnalo Matt-Rear." (For Mattresses.) Barnalo Manufacturing Company. No. 23,838; Dec. 27.
"Be-Ta." (For Food Beverage.) I. Davis. No. 23,845; Dec. 27.
"Beech Nut Cigar," (For Beech Nut Cigars.) Fritsch & Son. No. 23,847; Dec. 27.
"Brawley Beauty Brand." (For Crates and Boxes Containing Grapefruit.) B. Brawley. No. 23,858; Dec. 27.
"Defective Perfecto." (For Cigar-Boxes Containing Cigars.) Urich Cigar Co. No. 23,860; Dec. 27.
"Dr. Louis Valdes's Famous Remedies, French Discovery." (For Eight-Ounce Bottle Containing a Tonic for the Cure of Dyspepsia, Indigestion, Biliousness, Malaria, Boils, Liver or Kidney Troubles, Constipation, Rheumatism, Eczema, and All Blood Disorders.) L. Valdes. No. 23,861; Dec. 27.
"Egg Plant." (For Package Containing Egg Plant.) G. Di Salvo & A. Patera. No. 23,844; Dec. 27.
"Egg Puffetts." (For Breakfast Food.) C. J. Grimm. No. 23,843; Dec. 27.
"Gal-lo-lim." (For an Antiseptic and Astringent Remedy.) C. Bardos, Jr. No. 23,859; Dec. 27.
"Lasher's Moose Yarns Linen Thread." (For Linen Threads for Hand and Machine Sewing and Crocheting Purposes.) Star Merchandise Company. No. 23,858; Dec. 27.
"Liquid Cutex." (For a Liquid Oil Wash or Polish Made Chiefly of Oil of Cedar.) Rieger Chemical Company. No. 23,845; Dec. 27.
"Lorain." (For an Appliance or Attachment for Gas-Stoves.) American Stove Company. No. 23,837; Dec. 27.
"Milk-Maid Creams." (For Cream Confections.) Sinn Confectionery Co. No. 23,854; Dec. 27.
"Pan-Ola." (For Wheat-Flour.) M. Alsop & Sons, Inc. No. 23,870; Dec. 27.
"Quintaline." (For an Ointment for Congested and Inflammatory Conditions.) Quintaline Co. of A.S. No. 23,857; Dec. 27.
"Royal Purple Pennyroyal Female Pills." (For Boxes Containing a Medicine for Treatment of Delayed Menstruation, for Painful Menses, Relieving Burning and Chafing.) First National Pharmacy. No. 23,846; Dec. 27.
"The Box That Stands the Knocks." (For Wooden Boxes.) D. M. Goodwillie Company. No. 23,849; Dec. 27.
"The Salvador Great Liquid For Cleaning Floors $100." (For Bottles or Demijohns of the Salvador $100.) A. Lucati. No. 23,864; Dec. 27.
"The Salvador Renowned Liquid For Washing Clothes $100." (For Bottles or Demijohns of the Salvador $100.) A. Lucati. No. 23,855; Dec. 27.
"Totems Poles." (For Cartons or Boxes of Cheese.) Brown & Haley. No. 23,842; Dec. 27.
"Wink the Drink." (For Non-Alcoholic Maltless Beverages.) R. Hill. No. 23,852; Dec. 27.
"X X X Brand." (For Malt Extract.) A. Loora. No. 23,853; Dec. 27.

ALPHABETICAL LIST OF PRINTS.

"All Ways and Always." (For Advertising Purposes for Sand-Blast and Allied Equipment.) Pangborn Corporation. No. 5,904; Dec. 27.
"America's Leading Lubricants." (For Advertising Purposes for Lubricating Oils and Greases.) A. W. Harris Oil Co. No. 5,902; Dec. 27.
"Baker Gun." (For Advertising Purposes for Guns.) Baker Gun Co. No. 5,901; Dec. 27.
"Rivals in Beauty." (For Advertising Purposes for Palmolive Soap.) Palmolive Company. No. 5,903; Dec. 27.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Airplanes. Curtiss Aeroplane and Motor Corporation. No. 138,898; Dec. 27.
Automobile and furniture polish. L. G. Pilgrim. No. 153,406; Dec. 27.
Automobile, furniture, &c., polish. O. E. Habicht. No. 154,024; Dec. 27.
Automobile-locks. C. M. Grey Mfg. Co. No. 144,823; Dec. 27.
Automobile luggage and tire carriers. Interlock Hardware Company. No. 144,621; Dec. 27.
Automobiles and motor-trucks. Northway Motors Corporation. No. 148,947; Dec. 27.
Bedding, bedsteads, &c. Robinson-Rivers Co. No. 154,325; Dec. 27.
Belt-dressing. Marshall Oil Company of Iowa. No. 151,553; Dec. 27.
Belting, Leather. Grant Leather Corporation. No. 152,845; Dec. 27.
Beverages, Non-alcoholic, non-cereal. H. Jaffe. No. 148,441; Dec. 27.
Beverage, Non-alcoholic, non-cereal, maltless. D. B. Nigg. No. 145,409; Dec. 27.
Bicycles and parts thereof. Westfield Manufacturing Company. No. 152,491; Dec. 27.
Bird-gravel. J. O. Johnson. No. 144,662; Dec. 27.
Bleaching and disinfecting fluid, Laundry. W. H. Marshall. No. 152,711; Dec. 27.
Boards, Folding-pressing. Hoe Corporation. No. 145,754; Dec. 27.
Boots and shoes. United States Rubber Company. No. 154,100; Dec. 27.
Boots, shoes, and slippers, Ladies' leather. Hartlett Comers Company. No. 149,429; Dec. 27.
Bottles, Glass milk. W. L. Johnson. No. 143,181; Dec. 27.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Braids and shoe-laces, Narrow and elastic. Hill and La Crosse Company. No. 152,622; Dec. 27.
Brushes, shaving. N. C. Tapia. No. 147,587; Dec. 27.
Bicycles, Belt. Marathon Tire & Rubber Company. No. 148,224; Dec. 27.
Butts. Stanley Works. No. 152,519; Dec. 27.
Cabinets, Kitchen. Charles Williams Stores, Inc. No. 153,769; Dec. 27.
Cake. Campbell Baking Company. No. 144,847; Dec. 27.
Canned or packaged foods. Boston Food Products Co. No. 141,517; Dec. 27.
Canned vegetables and fruits, fruit jellies, cereals, &c. B. A. Railton Company. No. 150,795; Dec. 27.
Cards, Playing. United States Playing Card Company. Nos. 151,118–19; Dec. 27.
Cards, Playing. United States Playing Card Company. No. 151,123; Dec. 27.
Cement, Roof-. Alsog Tight Products Co. No. 153,462; Dec. 27.
Chocolate fondants. J. Curry. No. 152,539; Dec. 27.
Cigarettes. L. Pinkus. No. 144,542; Dec. 27.
Cigars. The Flair. No. 149,219; Dec. 27.
Cigars. General Cigar Co. No. 148,327; Dec. 27.
Cigars. L. A. Helback. No. 146,652; Dec. 27.
Cigars. Kraus & Co. No. 150,071; Dec. 27.
Cigars. Pan-American Cigar Manufacturing Co. No. 136,481; Dec. 27.
Cigars. M. Rosenthal. No. 145,083; Dec. 27.
Cigars. San Telmo Cigar Manufacturing Company. No. 143,225; Dec. 27.
Cigars. Bernard Schwartz & Sons. No. 147,687; Dec. 27.
Cigars, cigarettes, chewing and smoking tobacco. Bayuk Bros. Incorporated. No. 152,200; Dec. 27.
Cleaning compound. W. C. Griffin. No. 148,326; Dec. 27.
Cleansing fluid for silk, wool, &c. H. A. Casebeer, Inc. No. 153,237; Dec. 27.
Cloth for polishing metals, hard rubber, and glass, Chemically-treated. C. F. Jameson. No. 151,990; Dec. 27.
Clothespins. Novelty Products Company. No. 141,795; Dec. 27.
Cocoa, sugar, cereal breakfast food, wheat-flour, and cocoanut milk. Beech-Nut Packing Company. No. No. 153,237; Dec. 27.
Computing and measuring fabrics, Devices for. Yard-O-Meter Corporation. No. 128,720; Dec. 27.
Cookies, crackers, cakes, and biscuit. G. H. Bent Company. No. 149,054; Dec. 27.
Cords, twine, ropes, lines. Henry C. Kelley Company. No. 138,070; Dec. 27.
Cough-balsam, hair-stain, blood remedy. M. Mashkes. No. 145,279; Dec. 20.
Dentifrice. Beech-Nut Packing Company. No. 151,530; Dec. 27.
Depilatories, shampoos, face-creams, &c. Imperial Chemical Mfg. Co. No. 150,862; Dec. 27.
Disinfectant. A. Lucati. No. 152,835; Dec. 27.
Dogs, Thoroughbred. R. M. Cleveland. No. 152,404; Dec. 27.
Dolls. K. Fisher. No. 139,570; Dec. 27.
Dolls, Stocking. United Hosiery Mills Corporation. No. 153,898; Dec. 27.
Electric horns, electrically-operated warning-bells, &c. Clayton-Wright, Ltd. No. 146,756; Dec. 27.
Electrotypes. B. M. Bisenberg. No. 150,739; Dec. 27.
Embossing-leaf. Boston Last Co. No. 112,810; Dec. 27.
Faucets. S. Kersten. No. 153,353; Dec. 27.
Fertilizers. Patuxent Guano Company. No. 151,520; Dec. 27.
Filters and filter-presses. Buffalo Forge Company. No. 143,089; Dec. 27.
Filters and filter-stone made of tripoli. American Tripoli Company. No. 150,126; Dec. 27.
Filters and parts thereof. Midwest Steel & Supply Company. No. 154,611; Dec. 27.
Filters and refrigerators. C. Schmidt Company. No. 148,461; Dec. 27.
Fire-fenders, furnace-bars. Hadfields Limited. No. 136,262; Dec. 27.
Flour, Wheat-. American Finance & Commerce Company. No. 148,108; Dec. 27.
Flour, Wheat-. Oklahoma City Mill and Elev. Co. No. 149,813; Dec. 27.
Food for infants and invalids, Prepared. Reed & Carnrick. No. 144,641; Dec. 27.
Furniture. C. L. Norquist. No. 148,294; Dec. 27.
Furniture-polish. C. S. Cargill. No. 153,447; Dec. 27.
Gaskets, Receptacles for. Victor Manufacturing and Gasket Company. No. 155,527; Dec. 27.
Gasoline and fuel-oils, Eastern Oil Refining Company. No. 154,438; Dec. 27.
Ginger-ale. S. P. Wright. No. 150,717; Dec. 27.
Greases, Lubricating-. J. Hallian. No. 155,262; Dec. 27.
Hair-dressing. J. W. Howard & Son. No. 152,848; Dec. 27.
Hair-tonic. Atlanta Barbers Supply Co. No. 143,906; Dec. 27.
Hair-tonic and dandruff remedies. Crown Supply Company. No. 146,671; Dec. 27.
Harness, saddles, bridles, &c. Schoellkopf Co. No. 151,103; Dec. 27.
Heaters, lanterns, stoves, &c. John Dunn, Son & Co. No. 140,875; Dec. 27.
Hose-clamps. B. A. Tetzlaff. No. 151,566; Dec. 27.
Ice-cream freezers. Steinfeld Bros. No. 149,033; Dec. 27.
Ice-making and refrigerating machines. Henry Vogt Machine Co. No. 146,940; Dec. 27.
Ironing-boards. Dearborn Company. No. 144,133; Dec. 27.
Ironing-machines. Altorfer Bros. Company. No. 144,659; Dec. 27.
Kerosene, gasolene, &c. Noco Petroleum Company. No. 139,901; Dec. 27.
Kites. G. D. Wanner. No. 153,575; Dec. 27.
Laundry machinery. Asher Manufacturing Company. No. 152,977; Dec. 27.
Leather, Haffner Brothers Company. No. 153,214; Dec. 27.
Leather, Dressing for. A. Overton. No. 148,235; Dec. 27.
Leather, hides, and skins. Marcus, Forscher & Co. No. 153,558; Dec. 27.
Lenses, Headlight-. R. T. Wing. No. 153,423; Dec. 27.
Malt extract. Hagen-Becker Co. No. 153,217; Dec. 27.
Malt extract. Society of Chemical Industry in Basle. No. 149,936; Dec. 27.
Maps, pamphlets published from time to time, &c., Printed. American Automobile Association. Nos. 152,860–61; Dec. 27.
Mattresses. Balyeat Mfg. Co. No. 149,026; Dec. 27.
Mattresses, Felt. International Bedding Co. Inc. Nos. 134,196–0; Dec. 27.
Medicinal preparation for treatment of rheumatism, &c. Nalgen Chemical Company. No. 146,729; Dec. 27.
Merchandise-envelops. A. Hers. No. 154,602; Dec. 27.
Metal, nickel, and stove polishes, &c. R. M. Hollingshead Co. No. 149,134; Dec. 27.
Metal-polishing material. Collene Laboratories, Inc. No. 133,610; Dec. 27.
Mops. J. M. Sherwood Manufacturing Corporation. No. 147,741; Dec. 27.
Nursers. Fraser Tablet Company. No. 138,088; Dec. 27.
Oil, Engine-lubricating. Continental Supply Company. No. 152,911; Dec. 27.
Oil, Lubricating-. Barnsdall Refining Company. No. 154,296; Dec. 27.
Oil or petroleum, Crude. Noco Petroleum Company. No. 139,900; Dec. 27.
Oils and greases, Lubricating. Ohio Grease Co. No. 154,884; Dec. 27.
Oils, Cylinder-. Texas Company. No. 154,465; Dec. 27.
Oils, Lubricating-. Economy Oil Company. No. 153,344; Dec. 27.
Oils, Lubricating-. Emery Candle Company. No. 142,207; Dec. 27.
Oils, Lubricating-. Nott-Atwater Co. No. 154,930; Dec. 27.
Oils, Lubricating-. Ohio Grease Co. No. 154,885; Dec. 27.
Padlocks. Eagle Lock Co. Nos. 139,882–3; Dec. 27.
Padlocks, keys, and parts thereof, &c. Fraim-Slaymaker Hardware Company. No. 151,664; Dec. 27.
Paints. Sherwin-Williams Company. No. 145,130; Dec. 27.
Paints, Silumite Products Corporation. No. 153,572; Dec. 27.
Paints, oils, varnishes, &c. Paine & Nixon Co. No. 153,518; Dec. 27.
Paper and mailing-envelops, Writing-. Whiting Paper Company. No. 114,983; Dec. 27.
Paper for wrapping purposes. Trinity Bag & Paper Co. No. 148,566; Dec. 27.
Paper luncheon sets. Sanitary Products Corporation of America. No. 143,412; Dec. 27.
Paper stationery, Exclusively for printed. Diamond Press. No. 147,841; Dec. 27.
Pens, Fountain-. Dunn Pen Company. No. 147,606; Dec. 27.
Perfumes. G. C. Spencer. No. 152,770; Dec. 27.
Playing-cards. United States Playing Card Company. Nos. 151,120–1; Dec. 27.
Poles, Cedar telephone, telegraph, and transmission-line. Western Lumber & Pole Company. No. 153,905; Dec. 27.
Powder-puffs. M. Crupain. No. 150,996; Dec. 27.
Preparation for cleaning, &c., varnished surfaces. W. H. Whitmore. No. 151,028; Dec. 27.
Preparation for cleaning toilet-bowls, Powdered. United Chemical Companies. No. 152,660; Dec. 27.
Preparation for relief of sunburn. A. W. Cook. No. 151,656; Dec. 27.
Publication, Periodic. Halliwell & Patton Publishing Co. No. 143,128; Dec. 27.
Pyrophoric igniters. Chastern, Inc. No. 142,748; Dec. 27.
Railways, Reinforced-concrete ties for. Ashley Railway Safety Tie and Construction Corporation. No. 135,124; Dec. 27.
Refrigerating systems. Resolute Manufacturing Company. No. 150,372; Dec. 27.
Refrigerators. McKee Refrigerator Company. No. 148,231; Dec. 27.
Refrigerators. J. R. Wood. No. 138,739; Dec. 27.
Rubber compound. A. Orris. No. 151,923; Dec. 27.
Rubber patches, Sheet-. United States Sales Corporation. No. 141,198; Dec. 27.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 3, 1911.]

Rubber soles. Cushman-Hollis Co. No. 149,815; Dec. 27.
Sadirons, Stove-heated. Dover Manufacturing Company. No. 145,500; Dec. 27.
Sashes, Metal window. Federal Bridge and Structural Co. No. 153,655; Dec. 27.
Screws, Wood-. Eagle Lock Co. No. 152,421; Dec. 27.
Seed, Farm-. Springfield Seed Co. No. 154,241; Dec. 27.
Seed, Sweet turnip and beet. Dr. Friedrich Bergmann, G. m. b. H. No. 140,426; Dec. 27.
Seeds. Peter Henderson & Co. No. 151,004; Dec. 27.
Shoe parts—rubber heels. Brooks & Co. No. 152,945; Dec. 27.
Shoes. Novelty Shoe Company. No. 149,026; Dec. 27.
Shoes, Leather. Gotham Shoe Mfg. Co. No. 149,544; Dec. 27.
Shoes, Women's leather and cloth. Duttenhofer-Stevens Co. No. 152,980; Dec. 27.
Shoes, Women's leather and combination. C. S. Gibbon Co. No. 149,545; Dec. 27.
Soap and benzene soap. Innis, Speiden & Co. No. 154,274; Dec. 27.
Soaps, metal-polish, leather-dressing, &c. Detroit White Lead Works. No. 148,218; Dec. 27.
Stoves, Gas and coal. Wincroft Stove Works. No. 146,942; Dec. 27.
Stoves, ranges, and furnaces. Haynes-Langenberg Manufacturing Co. No. 145,265; Dec. 27.
Stringers, Anchor-rails, metal sections for connecting metal stringers, &c. Midwest Steel & Supply Company. No. 154,600; Dec. 27.
Talking-machine needles. Brilliantone Steel Needle Co. of America. No. 150,214; Dec. 27.
Tape, Adhesive. Bauer & Black. No. 155,085; Dec. 27.
Threads and yarns of silk and artificial silk. A. H. Rice Company. No. 154,245; Dec. 27.
Tire-patches, Automobile. Leech Tire Patch Company. No. 126,639; Dec. 27.
Tire-retreads. General Tire and Rubber Company. No. 144,858; Dec. 27.
Tires and tubes, Automobile. Austin, Nichols & Co. No. 153,865; Dec. 27.
Tobacco, cigars, and cigarettes. A. Dunhill. No. 105,080; Dec. 27.
Toilet preparation—fumigation. Vulcan Manufacturing Company. No. 144,841; Dec. 27.
Tonic for use after bathing, &c., Arterial body-. Chas. E. Zanders Co. No. 151,693; Dec. 27.
Toy airplanes. Ball Me Co. No. 122,443; Dec. 27.
Toy car. J. W. Hess. No. 154,200; Dec. 27.
Toy molding set. C. C. Kindler. No. 154,340; Dec. 27.
Trousers, skirt, coat, gown, and suit hangers. Strader Manufacturing Company of Indiana. No. 141,493; Dec. 27.
Truck-scales. L. W. Robinson. No. 157,871; Dec. 27.
Trucks and trailers, Motor-. Trayler Engineering & Manufacturing Company. No. 141,138; Dec. 27.
Trunks, Oversize-n Trunk Company. No. 154,272; Dec. 27.
Tube-filters, Pressure and suction. Gutsfeder Bruder. No. 151,520; Dec. 27.
Wall-cases, shelf-work, and interchangeable shelving Store. Interchangeable Wall Case Co. No. 145,456; Dec. 27.
Washboards. National Washboard Company. Nos. 152,641-3; Dec. 27.
Washboards. National Washboard Company. Nos. 152,644-6; Dec. 27.
Washboards. National Washboard Company. Nos. 152,647-9; Dec. 27.
Washboards. National Washboard Company. Nos. 152,643-7; Dec. 27.
Washbollers. W. B. Bertels & Son Co. No. 135,428; Dec. 27.
Washtubs and washboilers. Atlantic Stamping Company. No. 155,058; Dec. 27.
Watch-movements. Illinois Watch Case Company. No. 140,852; Dec. 27.
Window-screens. Foster Screen Co. No. 154,706; Dec. 27.
Windshield-cleaners. Apex Electric Mfg. Company. No. 151,503; Dec. 27.
Wire-rope cables. Upson-Walton Company of New York. No. 144,947; Dec. 27.

CLASSIFICATION OF PATENTS

ISSUED DECEMBER 27, 1921.

NOTE.—First number—class, second number—subclass, third number—patent number.

1— 2: 1,401,762
26: 1,401,747
[illegible]: 1,401,760
[illegible]: 1,401,749
5— 41: 1,401,726
[illegible]: 1,401,745
[illegible]: 1,401,802
[illegible]: 1,401,752
14— 1: 1,401,771
[illegible]: 1,401,842
[illegible]: 1,401,873
[illegible]: 1,401,748
[illegible]: 1,401,750
[illegible]: 1,401,734
[illegible]: 1,401,823
[illegible]: 1,401,441
17— 34: 1,401,769
18— 1: 1,401,181
2: 1,401,746
7: 1,401,763
[illegible]: 1,401,179
11: 1,401,676
[illegible]: 1,401,818
20— [illegible]: 1,401,779
[illegible]: 1,401,409
22— 74: 1,401,926
[illegible]: 1,401,901
[illegible]: 1,401,914
[illegible]: 1,401,159
[illegible]: 1,401,877
23— 3: 1,401,148
5: 1,401,384
13: 1,401,136
[illegible]: 1,401,187
[illegible]: 1,401,741
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